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MIZEX '84 NASA CV-990 Flight Report

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May 1985

National Aeronautics and Space Administration

Goddard Space Flight Center
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PREFACE

During June/July 1984, the NASA CV-990 Airborne Laboratory was utilized in a mission to overfly the Fram Strait/East Greenland Sea marginal ice zone (MIZ) during the main summer marginal ice zone experiment (MIZEX '84). The eight data flights were coordinated where possible with overpasses of the Nimbus-7 satellite, and with measurement of sea ice, open ocean, and atmospheric properties at the surface. The surface research teams were based on seven research vessels, some with helicoptors: M/V Kvitbjorn, M/V Polarqueen, M/S Haakon Mosby, and M/S H.U. Sverdrup, all from Norway, F/S Polarstern form the Federal Republic of Germany, and the USNS Lynch from the USA. There were also coordinated flights with the NRL P3, NOAA P3, Canadian CV580, and the French B-17 during the overlap portions of their respective missions. Analysis of the real-time data acquired during the mission and uncalibrated data stored on tape has served to indicate the mission was over 90% successful.

The purpose of these flights was to obtain data to understand better the physical ocean/ice/atmosphere interactions occuring in the marginal ice zone (MIZ) and to improve the algorithm for obtaining sea ice concentration and age from microwave data especially in the melt season. To this end, the aircraft was equipped with both imaging and fixed-beam, dual-polarized passive microwave radiometers operating at wavelengths ranging from 0.3 to 1.7 cm. Also on board were a chirped-pulse radar from UK operating at 13 GHz, metric cameras, and an infrared radiometer operating at 10.7 micrometers.

Following a general discussion of the operational plan and on-board instrumentation, each flight is described by a summary report, a flight log of aircraft position once a minute and all automatically entered flight comments made by visual observers and on-board investigators, plots of the aircraft tracks, and where available, preliminary microwave mosaics prepared on-board the CV-990 during the flights.

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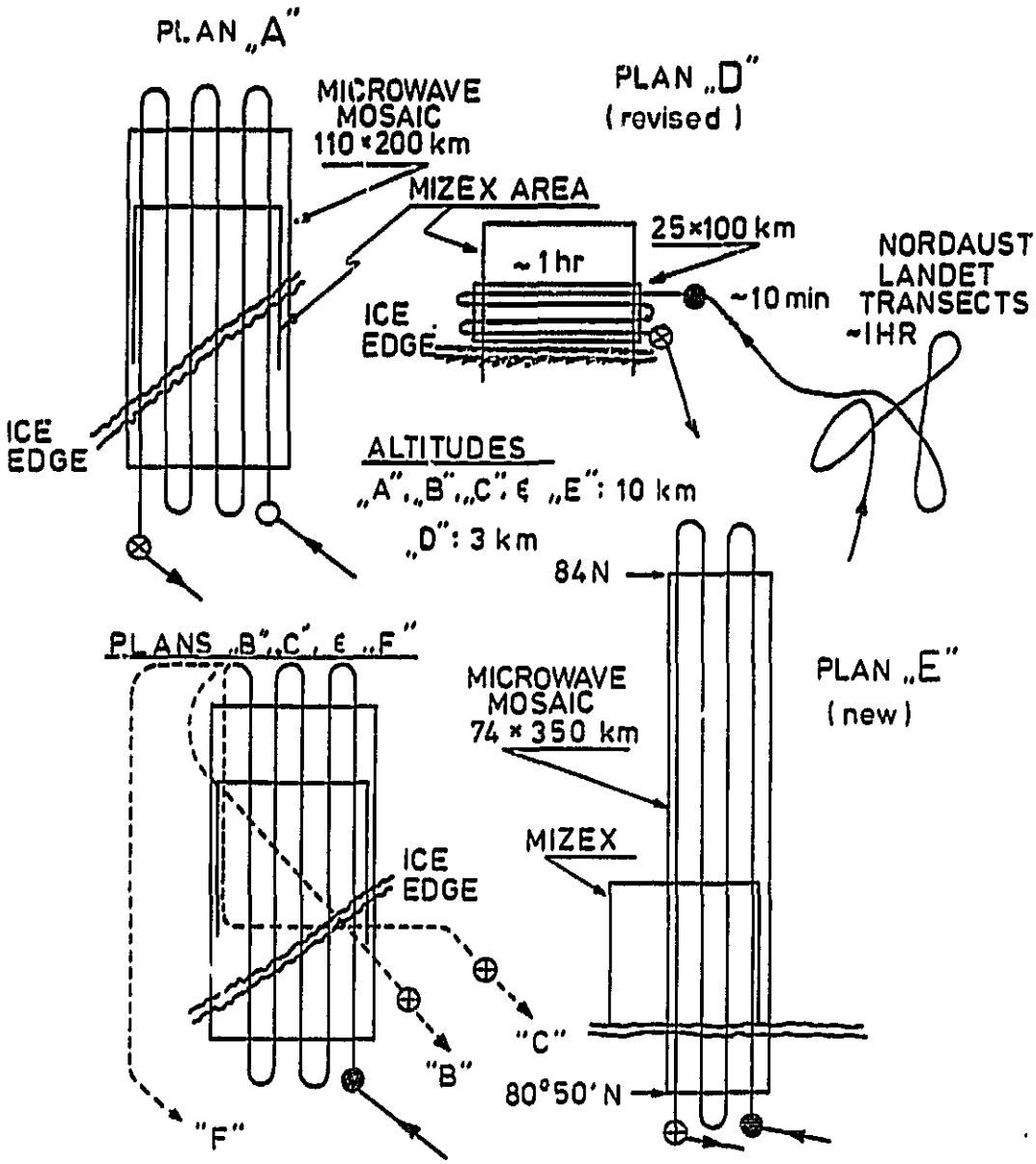
1. Background

This expedition of the NASA CV-990 airborne laboratory was carried out in accordance with the science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland Sea (MIZEX '84) (Johannessen et al. 1983). Specifically, the objectives of this mission were: 1) to acquire mesoscale mosaics of multispectral microwave radiometric data from airborne imaging and fixed-beam instruments in the range 10.7 - 92 GHz over a drifting 200 Km square array during MIZEX '84 in such a way as to permit analysis of the data in terms of time-sequential maps of sea ice concentration, age, and surface temperature over the sea ice and near-surface winds over the open ocean within the array, 2) to distribute these flights over variations in the surface temperature below and at the melting point for the purpose of a detailed study of the problem of observed inaccuracies in sea ice concentrations from SMMR in the MIZ near that point, 3) to coordinate these flights with in-situ sea ice and oceanic data obtained by the international participants in MIZEX '84 on board the seven research vessels taking part in this experiment and with the Nimbus-7 SMMR overpasses, and 4) to coordinate the acquisition of the microwave mesoscale mosaics with that of high-resolution multispectral radar mosaics acquired by the NOAA P-3, the CCRS (Canadian Centre for Resmote Sensing) Convair 580 and the CNES (French Space Agency) B-17 aircraft, and also the passive microwave data obtained with the USN/NRL P-3.

2. General Flight Plan

The original flight plan called for departure of the CV-990 from Ames Research Center on June 7 to permit obtaining the first MIZEX mosaic on June 8, 1984, in coordination with the SMMR overpass on that day. This plan had to be modified because of problems discovered with the landing gear at an intermediate stop (Malstrom AFB) on June 7. As a result, the CV-990 returned to Ames for emergency overnight repairs, and the mission began instead on June 8. In the middle of the schedule, another aircraft malfunction—loss of part of one of the spoilers on a wing during landing—caused an unscheduled down-time of six days and a subsequent compression of the remaining flight schedule. In spite of these difficulties, all of the scheduled eight data (see Table 1.) flights over the MIZEX area were successfully executed.

In order to facilitate coordination between the CV-990 and other aircraft involved in MIZEX '84 at the same time, a number of different flight patterns were designed before the mission, included in the Operations Plan, and labeled 'A' through 'F' (see Figure 1.). These plans were actually followed, with only an occasional minor modification. In the description of the individual flights to follow, the actual aircraft flight lines are shown in both an overall scale from base to base and in detail over the MIZEX test area. The navigational data acquired by the Airborne Digital Data Acquisition System (ADDAS), sampled once a minute, are shown for each flight along with all of the comments of the ice observers, mission managers, mission scientist, and instrument scientists that were logged into the ADDAS. A list of participants on this mission appears in Table 2. Finally, grey-scale renditions of the mosaics of the 19.35 GHz radiometric imager (ESMR) data acquired during each of the flight over the MIZEX areas are presented. Because of the practical limitation of the grey scale to ten steps, the radiance interval between steps is 15 K, about three times greater than the sensitivity of the ESMR.



NASA/CV-990

1984 SCHEDULE

Flights June	8	10	14	18	20	22	26	29
Flight Plan	"A"	"E"	"A"	"A"	"A/F"	"A/F"	"A/F"	"D"
Mosaic Alt.	10	10	10	10	10	10	10	3

Figure 1. Flight Plans

The scientific instrumentation on board (Table 3.) consisted of fixed-beam and scanning microwave radiometers in the wavelength range of 0.3 to 1.7 cm (92 to 18 GHz) from the Goddard Space Flight Center, a radar altimeter operating at 14 GHz from the Rutherford-Appleton Laboratories (RAL) (UK), and from the Ames Research Center, a precision albeto measuring system, a thermal infrared radiometer, and two cartographic cameras. For the most part, data from these instruments were acquired by the ADDAS as well as on their own data systems. As can be seen from the flight log, there were very few data gaps from any of the instruments. The most severe of these occurred on the June 9 Flight when the 92 GHz imager malfunctioned and could not be corrected during the flight because the cargo area where it was located was crammed with aircraft gear normally left behind at the base of operations. At this writing, it is estimated that better than 90% of the data desired were acquired.

During the course of the expedition, near real-time SMMR images of sea ice concentration and age were transmitted from Goddard via Telemail to the main base of operations at Tromso, Norway and to the CV-990 base at Evenes. The images were essential for optimization of the flight schedules in the field and optimal locations of the flight patterns over the MIZEX test area. Also, Telemail was utilized to transmit summary reports of each CV-990 flight to Tromso (and Goddard) as well as for receiving details of recommended flight plan revisions from Tromso. These summary reports are the primary basis for the flight summaries presented here.

Table 1. List of MIZEX'84 Flights

Flt#	Date	Day#	Flight Name	Base(s)	Purpose
1	6/02	154	----	Ames/Ames	Instrument check-out
2	6/05	157	----	Ames/Ames	Instrument check-out
3a	6/07	159	----	Ames/Malmstrom	Transit (aborted)
b	6/07	159	----	Malmstrom/Ames	Return for repairs
4a	6/08	160	Transit	Ames/Malmstrom	Refueling stop
b	6/08	160	Transit	Malmstrom/Thule	Temporary base
5	6/09	161	1st Data	Thule/Evenes	6-leg N/S mosaic
6	6/12	164	2nd Data	Evenes/Evenes	6-leg N/S mosaic
7	6/18	170	3rd Data	Evenes/Evenes	Long 4-leg N/S mosaic
8	6/22	174	4th Data	Evenes/Evenes	5-leg N/S mosaic, with low-level pass over leg 3
9	6/24	176	5th Data	Evenes/Evenes	6-leg N/S mosaic, with half the normal space between 5 & 6
10	6/26	178	6th Data	Evenes/Evenes	6-leg N/S mosaic
11	6/28	180	7th Data	Evenes/Evenes	Nordostlandet rosette; MIZEX edge transect
12	6/30	182	8th Data	Evenes/Evenes	5-leg E/W mosaic
13a	7/01	183	Transit	Evenes/Sondre	Refueling stop
b	7/01	183	Transit	Sondre/Malmstr.	Overnight rest stop
14	7/02	184	Transit	Malmstrom/Ames	Return to home base

Table 2. Participants

Function	Name	Organization
Aircraft Cmdr.	Fred J. Drinkwater	Ames Research Center
Aircraft Cmdr.	Robert C. Innis	Ames Research Center
Chief Pilot	James L. Martin	Ames Research Center
Chief Pilot	Paul M. Scabo	Ames Research Center
Flight Engineer	Frank P. Kosik	Ames Research Center
Flight Engineer	Wallace G. Stahl	Ames Research Center
Navigator	Eugene A. Moniz	Northrup
Mission Mgr	Donald L. Anderson	Ames Research Center
Asst Mission Mgr	John O. Reller, Jr.	Ames Research Center
Asst Mission Mgr	Robert D. Morris	Ames Research Center
Mission Scientist	Per Gloersen	Goddard Space Flight Center
Principal Inves.	Erik Mollo-Christensen	Goddard Space Flight Center
Ice Observer	William J. Campbell	USGS/Ice Dynamics Project
AMMR/ESMR/AMMS	Thomas T. Wilheit	Goddard Space Flight Center
AMMR/ESMR/AMMS	Lewis R. Dod	Goddard Space Flight Center
AMMR/ESMR/AMMS	Richard L. Kutz	Goddard Space Flight Center
AMMS	Joseph A. Gagliano	Georgia Tech.
AMMS	Thomas F. Stouffer	Georgia Tech.
ADDAS	Patricia G. Hathoway	Informatics
ADDAS	Susan D. Brooks	Northrup
ADDAS	Russell L. Burns	Informatics
Albedo Expt.	Anne B. Miller	Ames Research Center
Radar Altimeter	Redvers J. Powell	Rutherford-Appleton Labs
Radar Altimeter	Andreew R. Birks	Rutherford-Appleton Labs
Radar Altimeter	W. John Bradford	Rutherford-Appleton Labs
Radar Altimeter	Charles L. Wrench	Rutherford-Appleton Labs
Radar Altimeter	Micheal R. Gorman	Scott-Polar Research Inst.
Radar Altimeter	Hugh D. Griffiths	U. College London
Radar Altimeter	Jean-Claud Morin	ESA
Radar Altimeter	Neil F. MacIntyre	Mullard SSL
Photography	Bernardo G. Ponseggi	Ames Research Center
Flight technician	Larry Parenti	Ames Research Center
Instrument tech.	Glen E. Frenzel	Ames Research Center
Gnd Cres Supervsr	Douglas J. McKinnon	Northrup
Inspector	Alfred A. Hill	Northrup
Ground Crew Chief	Steven G. Davis	Northrup
Ground Crew	Larry Kirkland	Northrup
A/C Mechanic	Michael Lakowski	Northrup

Table 3. Visiting Observers

Name	Organization
Robert A. Shuchman	ERIM (MIZEX Remote Sensing Co-Chairman)
Sylve Lilegren	Norsk Rikskringkastning Centrale (NRC)
Hanseric Vogter	NRC (Norwegian National Radio)
Arne Schei	NRC
Albert J. Fleig	GSFC (Project Scientist -- Nimbus-7)
Robert Majors	Norsk Teknisk Naturvitenskapelig Fors-
George W. Rosenberg	kningsraad (NTNF)
Lothar Beckel	ESA
John Conomos	USGS
Edward Joshberger	USGS
Duncan Ross	NOAA/SAIL/U. Miami
Bengt Benson	General, Swedish Air Force
F. Wickerts	Colonel, Swedish Air Force
Even Holt	Norsk Tekniske Hoegskole
Kenneth Morey	MIT
Charles Luther	ONR
Richard Francis	ESA

Table 4. List of Instruments

Sensor	P.I./Co-I.	Characteristics
ESMR	Tom Wilheit/GSFC Tom Dod/GSFC Dick Kutz/GSFC	Passive microwave imager Frequency: 19.35 GHz FOV: 1/20 radian Scan: +/- 50°
AMMR	Tom Wilheit/GSFC Tom Dod/GSFC Dick Kutz/GSFC	Fixed-beam microwve radiometers Frequencies: 18, 21, 37 GHz FOV: 1/7 radian Look angles: 45°R Polarization: H & V
Sky Radiometer	Tom Wilheit Tom Dod Dick Kutz	Fixed-beam microwve radiometers Frequencies: 21 & 37 GHz FOV:1/7 radian Look angle: ca. 10° from zenith
AMMS	Tom Wilheit/GSFC Joe Gagliano/Georgia T.	Passive microwave imager Frequency: 92 GHz FOV: 1/30 radian Scan: +/- 45°
Radar Altim.	John Powell/RAL	Altimeter/Scatterometer Frequency: 13.7 GHz
Albedo Expt.	Francisco Valero/ARC Ann Miller/ARC	Solar Radiometer Wavelengths: 0.26-2.6 microns FOV: hemispherical (up/down)
PRT-5	John Reller/ARC	Thermal infrared radiometer Wavelength: 10.7 micrometers Nadir-viewing
KS-87B's	Dino Ponseggi/ARC	Cartographic Cameras 5-inch film format nadir- & 45°R-viewing

3.0 Individual Flight Reports

3.1 Transmit Flight—day 160—Ames to Thule

This flight was one day later than planned due to a landing gear strut problem on the aircraft. Some sea ice data were obtained over Hudson Bay, Foxe Basin, and part of Baffin Bay. Unfortunately, the ADDAS failed at the crucial time for using the data as calibrations for the GSFC instruments. However, excellent conditions for useful albedo measurements were obtained—both high and low level.

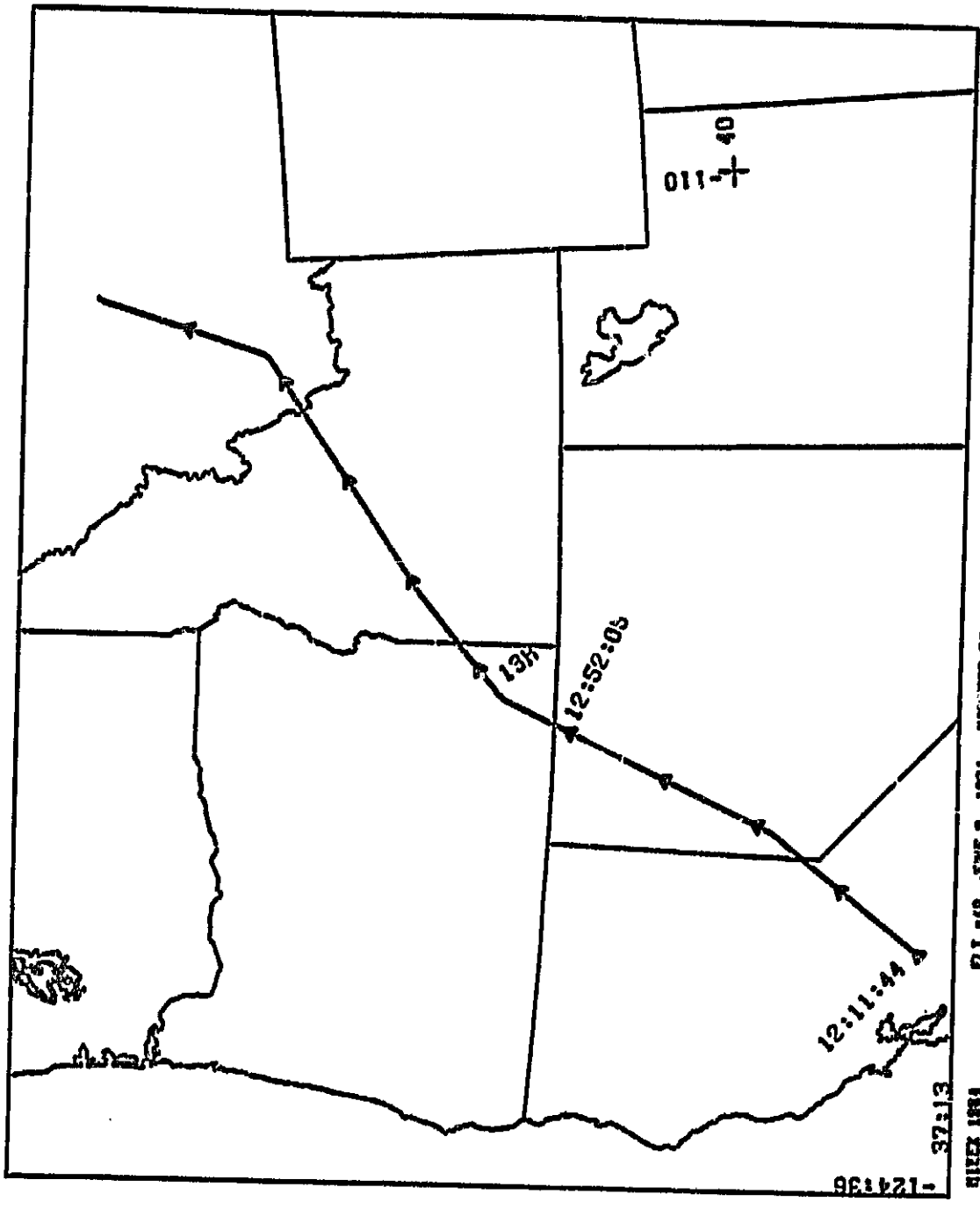


Figure 2. Flight tracks: Ames/Thule 6/8

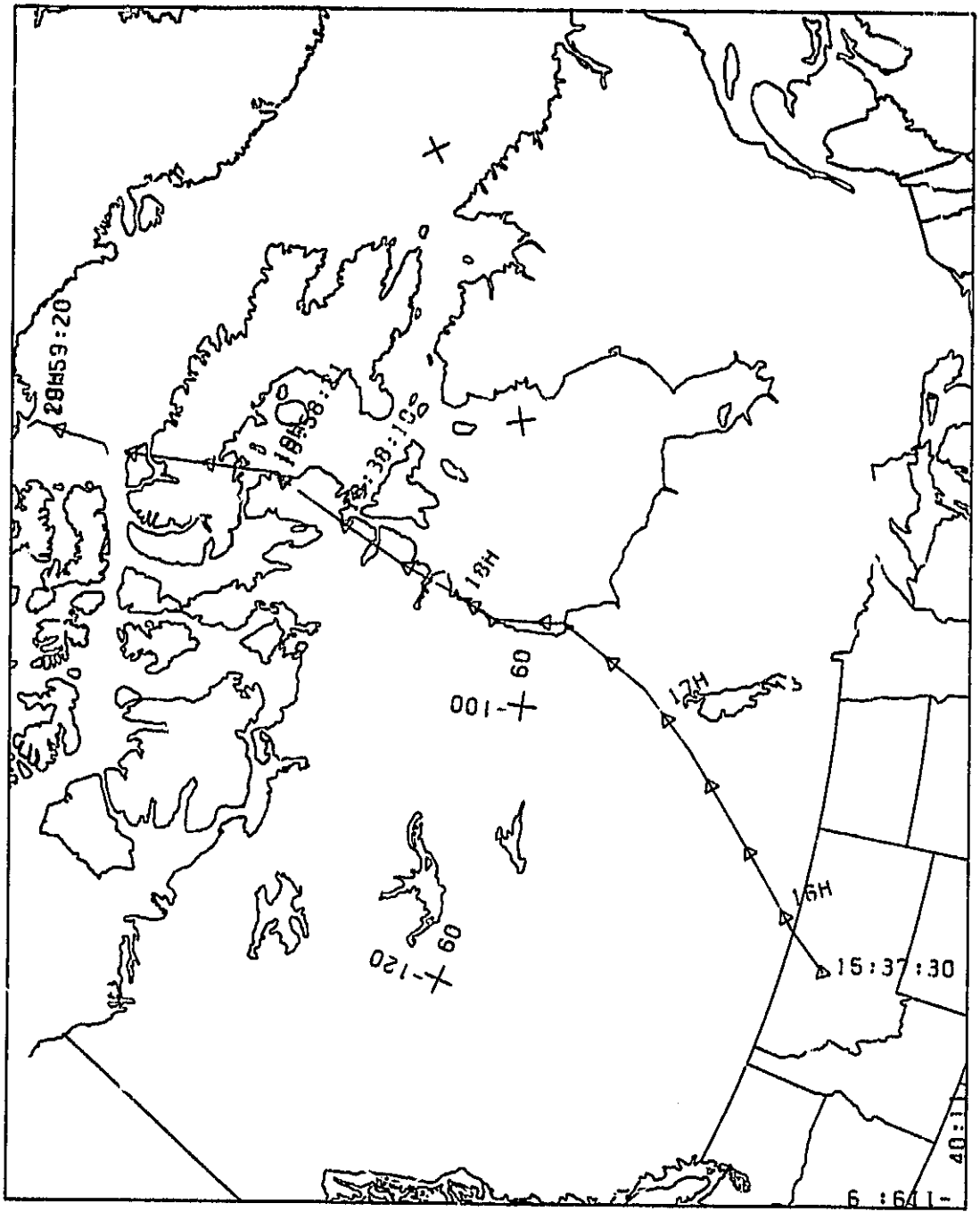


Figure 2. Flight tracks: Ames/Thule 6/8 (Continued)

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
160/11:56:05	00	00.0 000	00.0	0000	000.0	000	000134857	73	-0.7	-1.4	29.3	10.0	
160/11:57:01	37	24.8-122	02.8	0014	157.6	104	157134863	73	-0.5	-1.3	25.4	9.8	
160/11:58:01	37	24.6-122	02.7	0014	158.4	103	158134870	73	-0.6	-0.9	21.9	7.9	
160/11:59:01	37	24.4-122	02.7	0013	129.3	105	132134877	74	-0.7	-1.4	18.5	9.7	
160/12:00:01	37	24.4-122	02.6	0003	338.6	116	338134886	74	-0.6	-0.4	16.7	11.0	
160/12:01:01	37	26.0-122	03.3	0177	349.1	010	040 789	934	14.2	15.8	16.7	9.2	
160/12:02:01	37	27.7-122	00.8	0235	096.3	019	299 2270	2407	6.6	4.3	16.6	9.2	
160/12:03:01	37	26.6-121	55.4	0278	102.2	014	341 4331	4555	8.5	-0.2	8.6	10.3	
160/12:04:01	37	23.9-121	50.7	0301	139.0	015	316 6533	6586	7.4	-0.1	9.2	6.4	
160/12:05:01	37	19.9-121	46.6	0318	139.8	026	311 8694	8664	6.8	-1.3	8.4	3.1	
160/12:05:35	37	18.3-121	43.4	0308	083.8	041	327 9939	8738	7.0	-28.8	7.4	3.3	TAKE OFF TIME 12 CO 31
160/12:05:3?	37	18.3-121	43.0	0307	076.4	043	322 10089	8818	6.7	-29.0	5.6	2.1	JULIAN DAY 160
160/12:05:41	37	18.4-121	42.9	0306	072.4	045	322 10134	8850	6.9	-29.1	6.3	3.2	FLIGHT 4A
160/12:05:47	37	18.4-121	42.3	0302	059.2	045	318 10274	8795	5.3	-28.0	7.2	1.5	JUNE 8, 1984
160/12:05:53	37	18.8-121	41.6	0300	050.2	049	315 10360	9229	5.5	-28.2	5.8	1.4	MOFFETT/MALSTROM.
160/12:06:01	37	19.1-121	41.0	0297	037.6	043	312 10502	8918	4.2	-19.3	5.7	0.6	
160/12:06:15	37	19.9-121	40.1	0304	025.7	042	310 10639	8510	3.7	-7.4	7.0	-0.1	H/P 1 37-50 1121-10 SCK
160/12:06:33	37	21.3-121	39.1	0319	021.0	043	312 10837	8902	3.4	-0.3	5.0	-0.8	H/P 2 39-31.9 119-39.3 RND
160/12:06:51	37	22.9-121	38.1	0334	021.5	043	311 11091	8814	3.7	3.3	5.2	1.2	H/P 3 42-35.4 117-52.0 RED
160/12:07:01	37	23.6-121	37.5	0343	022.8	045	312 11276	8868	3.7	3.4	4.9	0.3	
160/12:07:05	37	24.1-121	37.3	0345	023.3	044	310 11355	8737	3.9	3.7	4.9	0.7	H/P 4 43-34.1 116-14.6 BOI
160/12:07:17	37	25.0-121	36.6	0352	025.1	046	309 11626	8783	4.0	3.2	6.3	-1.7	H/P 5 45-14.9 112-32.8 OLN
160/12:07:29	37	26.0-121	35.7	0358	026.2	047	309 11917	9596	4.1	2.2	7.3	-1.5	H/P 6 47-27.0 111-24.7
160/12:07:35	37	26.4-121	35.5	0360	026.9	047	307 12077	10680	4.1	1.8	6.0	-0.9	NADIR 1 OPEN.
160/12:07:49	37	27.5-121	34.3	0365	027.5	048	306 12449	10481	4.2	1.3	6.8	-3.0	H/P 9 47-30.3 111-11.0 KGFA.
160/12:08:01	37	28.7-121	33.4	0369	027.6	049	306 1276?	9476	4.1	0.8	6.2	-3.4	
160/12:09:01	37	33.8-121	28.8	0381	027.4	052	305 14455	12834	4.3	0.4	10.2	-6.0	
160/12:10:01	37	38.8-121	24.1	0385	026.4	060	307 16326	16528	4.4	0.7	12.3	-11.3	
160/12:11:01	37	44.2-121	19.5	0394	025.9	065	303 18092	18522	4.2	0.4	10.3	-15.7	
160/12:12:01	37	49.7-121	14.6	0398	025.3	073	305 19735	20207	3.9	0.0	9.0	-17.8	
160/12:13:01	37	55.0-121	09.6	0403	025.3	072	300 21263	21727	4.1	0.3	7.2	-20.5	
160/12:14:01	38	00.7-121	04.6	0410	024.4	078	301 22649	23091	3.8	0.6	8.7	-22.2	
160/12:15:01	38	06.1-120	59.5	0412	023.6	088	307 24195	24521	4.0	0.4	9.2	-25.9	
160/12:16:01	38	11.7-120	54.5	0411	023.2	092	312 25705	26022	3.5	0.3	8.0	-31.2	
160/12:17:01	38	17.5-120	49.3	0412	021.7	109	315 27094	27195	3.7	0.4	7.1	-33.9	
160/12:18:01	38	22.9-120	44.4	0407	020.4	120	317 28540	27665	3.8	0.3	4.9	-36.7	
160/12:19:01	38	28.4-120	39.1	0407	019.9	126	314 29750	27547	3.3	0.0	6.2	-38.5	
160/12:20:01	38	34.0-120	34.0	0408	018.7	134	315 30693	28100	3.2	0.0	2.1	-42.4	
160/12:21:01	38	39.4-120	29.1	0410	018.9	135	316 31578	27766	3.2	0.2	1.5	-44.9	
160/12:22:01	38	44.9-120	23.7	0412	019.3	134	316 32440	28648	3.1	0.1	0.5	-44.6	
160/12:23:01	38	50.6-120	18.6	0418	018.8	134	314 32964	27675	2.1	-0.5	-1.6	-46.4	
160/12:24:01	38	56.3-120	13.4	0422	019.8	127	312 32953	25599	2.2	0.6	-0.2	-48.8	
160/12:25:01	39	02.0-120	08.0	0426	020.4	125	313 32960	27183	2.0	0.5	-2.1	-46.6	
160/12:26:01	39	07.7-120	02.7	0426	020.5	125	314 32962	27167	2.1	0.5	6.3	-47.8	
160/12:27:01	39	13.5-119	57.3	0426	020.6	126	316 32965	27144	1.9	0.4	8.3	-47.3	
160/12:28:01	39	19.1-119	51.7	0425	020.9	125	315 32960	25824	2.2	0.2	-6.0	-47.0	
160/12:?9:01	39	25.0-119	46.3	0423	020.9	125	315 32961	28405	2.1	0.4	-0.5	-46.2	
160/12:29:07	39	25.4-119	45.8	0423	020.8	126	316 32961	28652	2.0	0.3	-3.0	-48.1	33,000FT.
160/12:30:01	39	30.6-119	40.9	0419	019.1	124	314 32953	28197	2.0	-7.6	0.1	-47.2	
160/12:30:19	39	32.3-119	39.6	0407	013.7	123	314 32964	27776	2.0	-4.7	0.3	-48.8	12 30 CO H/P 2.
160/12:31:01	39	36.4-119	36.8	0398	009.3	123	314 32955	28192	2.2	-0.6	0.7	-48.8	
160/12:32:01	39	42.5-119	33.4	0394	008.9	121	315 32958	28362	2.2	0.3	1.5	-46.6	
160/12:33:01	39	48.5-119	30.1	0395	009.1	121	314 32966	26336	2.1	0.5	-2.9	-48.5	
160/12:34:01	39	54.6-119	26.6	0396	009.0	119	314 32936	29378	2.3	0.5	5.1	-48.8	
160/12:35:01	40	00.8-119	23.1	0398	009.1	118	312 32952	29001	2.1	0.4	-5.1	-46.8	
160/12:36:01	40	06.9-119	19.7	0402	009.5	114	312 32947	29336	2.3	0.3	5.2	-47.7	
160/12:37:01	40	12.9-119	16.2	0404	009.8	111	311 32952	28956	2.2	0.5	-14.7	-47.0	
160/12:38:01	40	19.3-119	12.5	0409	010.8	108	312 32971	28468	2.0	0.3	-12.8	-48.4	
160/12:39:01	40	25.5-119	09.0	0412	010.7	107	313 32951	28501	2.2	0.4	-13.6	-46.1	
160/12:40:01	40	31.8-119	05.4	0413	011.1	106	313 32954	28246	1.9	0.5	-2.9	-46.9	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
160/12:41:01	40 38.2	-119 01.8	0414	011.7	100	314	32968	27884	1.9	0.7	-2.2	-46.9	
160/12:42:01	40 44.4	-118 58.1	0415	012.3	096	313	32960	28621	2.1	0.2	-9.4	-45.1	
160/12:43:01	40 50.6	-118 54.5	0418	013.1	089	313	32948	28907	2.3	0.3	-12.1	-46.5	
160/12:44:00	40 57.1	-118 50.9	0420	013.8	083	313	32964	29016	2.1	0.5	0.6	-49.4	
160/12:45:00	41 03.4	-118 47.1	0421	013.7	082	313	32961	28981	2.2	0.3	-1.6	-47.7	
160/12:46:00	41 09.8	-118 43.5	0422	014.6	081	318	32954	28919	2.0	0.2	-1.6	-46.1	
160/12:47:00	41 16.4	-118 39.5	0422	014.8	078	317	32953	28900	1.9	0.4	-1.0	-48.2	
160/12:48:00	41 22.9	-118 35.9	0427	015.9	069	315	32940	28839	2.0	0.5	-0.1	-47.3	
160/12:49:00	41 29.3	-118 31.9	0428	016.2	067	318	32954	28770	2.1	0.4	-6.4	-46.9	
160/12:50:00	41 35.9	-118 27.9	0429	016.8	062	319	32967	28713	1.7	0.7	-2.8	-47.7	
160/12:51:00	41 42.5	-118 24.0	0433	017.6	057	319	32964	27067	1.7	0.6	-2.7	-47.4	
160/12:52:00	41 48.9	-118 20.3	0432	018.6	045	316	32966	27677	1.7	0.4	-0.9	-49.5	
160/12:53:00	41 55.8	-118 16.1	0442	019.1	044	315	32962	27625	1.7	0.3	-8.4	-46.6	
160/12:54:00	42 02.5	-118 12.1	0445	019.4	042	320	32921	26568	2.0	0.0	-6.6	-47.9	
160/12:55:00	42 09.1	-118 08.1	0442	019.6	042	319	32932	26358	2.2	0.4	-2.9	-49.0	
160/12:56:00	42 15.9	-118 04.0	0438	019.5	041	317	32939	25630	2.2	0.2	-6.1	-47.4	
160/12:57:00	42 22.5	-117 59.9	0441	019.1	043	313	32950	27533	1.8	0.3	-10.5	-49.7	
160/12:58:00	42 29.2	-117 55.8	0445	019.7	040	309	32955	28469	2.4	0.3	-8.1	-51.4	
160/12:59:00	42 35.9	-117 51.0	0456	036.4	035	316	32966	28615	2.0	10.4	-11.5	-51.7	
160/13:00:00	42 41.1	-117 43.4	0463	045.5	035	316	32938	28875	1.7	1.1	-9.3	-50.2	
160/13:00:56	42 45.6	-117 36.0	0461	045.7	036	308	32919	28692	2.1	0.0	-1.1	-51.7	R/P 3.
160/13:01:00	42 45.9	-117 35.6	0460	045.6	036	312	32926	28695	2.3	-0.1	-0.2	-50.6	
160/13:02:00	42 51.0	-117 27.4	0457	045.1	039	318	32944	28247	1.9	0.0	1.1	-50.2	
160/13:03:00	42 55.8	-117 19.6	0452	045.3	040	315	32944	28403	2.3	0.0	0.5	-46.9	
160/13:04:00	43 00.5	-117 11.7	0449	045.9	034	315	32959	27954	2.0	0.2	-3.8	-49.5	
160/13:05:00	43 05.4	-117 03.6	0448	045.5	038	317	32940	27671	2.5	0.3	-1.2	-49.8	
160/13:06:00	43 10.2	-116 55.8	0447	045.6	037	315	32936	27141	2.2	0.3	-1.8	-51.1	
160/13:07:00	43 14.8	-116 48.0	0443	046.2	035	323	32964	28922	2.2	-0.7	1.4	-50.0	
160/13:08:00	43 19.6	-116 40.0	0445	046.2	034	319	32958	30172	2.2	0.0	4.2	-52.7	
160/13:09:00	43 24.1	-116 32.3	0446	046.9	028	315	32927	29921	2.3	0.1	2.1	-51.4	
160/13:10:00	43 28.8	-116 24.4	0447	047.3	028	321	32958	29919	2.2	0.1	2.6	-49.9	
160/13:11:00	43 33.6	-116 16.2	0449	050.4	024	314	32940	29810	2.2	4.2	2.0	-50.6	
160/13:12:00	43 37.7	-116 07.7	0452	053.7	022	326	32960	28907	2.1	0.3	-1.7	-50.6	
160/13:13:00	43 42.0	-115 59.2	0457	053.1	026	308	32954	29391	2.0	0.2	-0.3	-50.8	
160/13:14:00	43 46.3	-115 50.0	0461	054.3	019	312	32966	27221	1.8	0.0	-4.6	-53.8	
160/13:15:00	43 50.5	-115 41.3	0465	054.8	017	304	32978	27465	1.7	0.1	-9.3	-51.6	
160/13:16:00	43 54.6	-115 32.3	0470	054.3	023	297	32960	27668	1.8	-0.5	-12.3	-52.7	
160/13:17:00	43 59.1	-115 23.0	0473	054.5	021	303	32952	24731	1.6	0.4	-16.3	-49.5	
160/13:18:00	44 03.4	-115 13.9	0473	054.7	020	309	32961	26047	1.8	0.2	-12.5	-50.0	
160/13:19:00	44 07.7	-115 04.7	0471	055.0	017	321	32964	26553	1.7	-0.1	-15.3	-51.1	
160/13:20:00	44 12.0	-114 55.3	0470	055.5	014	302	32964	25172	1.6	0.8	-16.0	-52.3	
160/13:21:00	44 16.1	-114 46.3	0469	055.4	019	301	32944	26184	1.8	0.2	-17.0	-49.3	
160/13:22:00	44 20.3	-114 37.3	0467	055.6	014	318	32953	25079	1.8	0.0	-16.0	-50.5	
160/13:23:00	44 24.6	-114 27.9	0466	056.0	013	311	32963	24183	1.8	0.5	-15.8	-50.7	
160/13:24:00	44 28.6	-114 18.8	0465	056.0	014	319	32949	25496	1.8	0.8	-15.0	-49.4	
160/13:25:00	44 32.9	-114 09.7	0464	056.4	012	312	32949	26614	1.7	0.3	-13.0	-50.7	
160/13:26:00	44 37.0	-114 00.4	0464	056.5	011	314	32951	27610	1.9	0.3	-20.4	-50.4	
160/13:27:00	44 41.1	-113 51.2	0464	056.4	013	316	32949	24414	1.7	0.3	-15.1	-53.0	
160/13:28:00	44 45.1	-113 42.1	0465	056.8	013	303	32951	25382	1.9	0.5	-12.7	-49.7	
160/13:29:00	44 49.2	-113 32.6	0466	057.0	011	299	32950	26512	1.7	0.2	-12.1	-50.3	
160/13:30:00	44 53.4	-113 23.4	0467	057.6	009	267	32963	24693	1.7	0.4	-5.0	-52.7	
160/13:31:00	44 57.4	-113 14.1	0468	058.0	003	317	32957	25885	1.6	0.5	-7.3	-52.1	
160/13:32:00	45 01.5	-113 04.6	0468	058.6	001	209	32958	26773	1.6	-0.3	-10.6	-52.1	
160/13:33:00	45 05.6	-112 55.2	0467	058.9	002	182	32958	26282	1.7	-0.3	-3.1	-52.5	
160/13:34:00	45 09.6	-112 45.8	0467	059.4	004	183	32936	27213	1.6	-0.1	-7.6	-51.7	
160/13:35:00	45 13.7	-112 36.4	0463	053.2	004	103	32930	27393	1.8	-20.9	-2.1	-51.6	
160/13:36:00	45 19.9	-112 30.4	0463	020.2	010	254	32938	27513	1.6	-3.3	2.3	-50.4	
160/13:37:00	45 27.2	-112 26.7	0462	018.2	007	239	32924	27684	1.9	0.8	3.4	-50.4	
160/13:38:00	45 34.7	-112 23.0	0459	019.0	005	221	32956	27708	1.7	0.2	5.0	-50.6	
160/13:39:00	45 41.7	-112 19.6	0460	019.4	007	201	32941	27195	1.8	0.1	5.7	-51.9	

YEAR 1984 AUDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
160/13:40:00	45 49.0	-112 15.9	0459	018.6	011	231	32940	27625	2.0	0.3	5.9	-50.1	
160/13:41:00	45 56.3	-112 12.1	0457	018.7	006	269	32965	27477	1.9	0.5	4.4	-52.4	
160/13:42:00	46 03.4	-112 08.6	0456	018.9	003	266	32934	27664	1.7	0.4	-1.5	-52.0	
160/13:42:38	46 07.9	-112 06.3	0440	019.0	004	273	32393	25906	-0.9	-0.2	0.9	-52.5	STARTING OUR DESCEND.
160/13:43:00	46 10.3	-112 05.0	0446	019.9	007	159	31362	24685	-2.4	0.5	-10.3	-51.9	
160/13:44:00	46 17.6	-112 01.3	0456	019.5	004	165	28714	22280	-0.2	0.4	-10.7	-48.9	
160/13:45:00	46 24.5	-111 57.8	0435	019.4	002	183	26428	21199	-2.4	0.5	-9.0	-42.6	
160/13:46:00	46 31.2	-111 54.4	0422	019.7	002	183	23891	18850	-2.7	0.7	5.0	-36.1	
160/13:47:00	46 37.9	-111 50.9	0413	019.3	010	221	21238	17237	-2.4	-0.1	-7.9	-30.2	
160/13:48:00	46 44.2	-111 47.5	0401	019.2	008	224	18823	14070	-1.6	0.5	-1.6	-24.5	
160/13:48:52	46 49.6	-111 44.8	0388	017.4	017	260	16832	10196	-2.4	0.7	-6.8	-18.1	NADIR 3 CAMERA ON AT 13 48 00.
160/13:49:00	46 50.4	-111 44.3	0387	017.5	018	255	16455	10223	-2.4	0.4	-1.0	-16.8	
160/13:50:00	46 56.5	-111 41.3	0373	017.9	012	261	14376	8754	-2.8	0.4	6.2	-12.8	
160/13:51:00	47 02.1	-111 38.1	0352	017.5	014	292	12725	7677	-1.2	1.1	8.3	-10.0	
160/13:52:00	47 06.9	-111 35.9	0334	038.5	015	309	11267	6835	-0.3	-0.1	9.5	-5.6	
160/13:53:00	47 11.1	-111 28.7	0308	038.4	012	325	10193	6080	1.2	-0.5	9.6	-5.6	
160/13:54:00	47 14.6	-111 24.1	0271	037.6	014	339	9674	6190	2.0	0.8	19.1	-6.2	
160/13:55:00	47 17.8	-111 19.9	0250	037.9	008	355	8878	4820	0.2	-0.4	12.0	-4.0	
160/13:56:00	47 21.1	-111 16.1	0243	038.2	020	286	7366	3293	-0.3	0.5	11.4	0.7	
160/13:57:00	47 23.9	-111 11.8	0254	039.6	026	266	5736	2082	0.5	-0.3	12.1	2.8	
160/13:57:24	47 25.1	-111 10.2	0251	040.1	024	259	5609	2144	3.1	-0.3	10.4	4.7	13 57 00 CAMERA OFF.
160/13:58:00	47 27.0	-111 07.7	0235	037.2	021	259	5605	1958	3.6	-0.5	11.2	3.8	
160/13:59:00	47 29.8	-111 04.7	0178	006.5	023	250	5137	1609	1.1	-12.4	11.7	6.2	
160/14:00:00	47 32.1	-111 06.1	0151	296.1	026	232	4471	1151	3.6	-5.0	12.2	8.7	
160/14:01:00	47 32.6	-111 09.4	0141	247.4	022	229	3925	438	2.3	-8.9	13.0	7.6	

YEAR 1994 ADDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZZK

---TIME---	--LAT--	--LONG--	GND TRUE SPD HEAD	SPD DIR	-WIND- -ALTITUDE- PRES RADAR	PITCH	ROLL	-TEMP- IR	AIR	
160 [illegible]	00.0 000	00.0 000	000.0 000	000	X570 324	-1.1	-0.2	31.3	11.8	
160/15:29:01 47	00.4-111	10.8 0015	044.1 006	044	3572 335	-1.1	-0.4	30.6	13.3	
160/15:30:01 47	00.8-111	10.4 0322	043.1 100	045	3557 336	-1.4	-0.2	26.0	11.8	
160/15:31:01 47	30.7-111	10.2 0313	098.8 103	096	3553 335	-1.0	-1.5	22.2	13.6	
160/15:32:01 47	30.7-111	10.1 0302	219.6 118	219	3557 332	0.0	-0.6	18.8	10.4	
160/15:33:01 47	30.6-111	10.2 0282	222.6 043	222	3589 332	0.2	-1.1	17.5	13.7	
160/15:34:01 47	28.8-111	12.7 0162	220.6 025	265	4472 336	15.1	2.6	17.2	11.0	
160/15:35:01 47	27.0-111	16.2 0228	261.4 012	270	5260 1746	7.7	16.5	21.0	5.7	
160/15:36:01 47	29.4-111	19.3 0262	006.5 020	292	7454 4047	11.1	-0.2	18.9	0.4	
160/15:36:27 47	31.4-111	18.8 0269	009.0 016	291	8265 4737	6.4	-4.9	17.8	1.7	TAKE OFF TIME 15 33 30
160/15:36:35 47	32.0-111	18.5 0276	008.7 016	291	8336 4823	6.5	0.4	13.9	-0.1	JULIAN DAY 160
160/15:36:39 47	32.2-111	18.5 0278	008.9 015	294	8472 4909	6.4	-2.6	14.2	-1.0	FLIGHT 48
160/15:36:45 47	32.8-111	18.3 0284	009.2 011	296	8594 5029	6.7	9.4	17.1	-1.4	JUNE 8, 1994
160/15:37:01 47	33.9-111	17.6 0295	033.8 009	336	9032 5231	7.1	21.0	17.7	-1.8	
160/15:37:49 47	36.7-111	13.0 0322	046.1 015	310	10243 6756	5.4	-8.5	14.9	-7.2	HAMSTROM/MAULE.
160/15:38:01 47	37.5-111	11.8 0327	038.6 017	298	10499 6835	5.0	-6.8	16.3	-7.8	
160/15:38:11 47	38.1-111	11.1 0333	036.1 015	299	10689 7015	4.7	-0.3	15.4	-9.1	W/P 1 47-30.3 111-11.0 KGFA
160/15:38:23 47	39.0-111	10.1 0343	036.3 015	293	10860 7254	3.6	-0.9	13.7	-7.1	CORRECTION: W/P 0 ABOVE.
160/15:38:35 47	40.0-111	08.9 0354	036.7 014	291	11018 7397	3.6	-2.3	13.3	-9.4	W/P 1 47-27 111 24.7 GTF
160/15:39:01 47	42.0-111	06.6 0371	033.4 017	290	11468 8015	4.9	-3.1	18.8	-10.8	W/P 2 49-04.9 109 35.2 GTF 020/122
160/15:39:17 47	43.4-111	05.2 0371	031.0 021	292	11997 8552	5.7	-0.8	6.5	-7.8	W/P 3 50-17.8 107 41.4 YTH
160/15:39:31 47	44.6-111	04.0 0371	030.8 022	296	12501 9156	5.8	0.7	18.4	-7.3	W/P 4 52-58.4 101 05.9 YCD
160/15:40:01 47	47.1-111	01.4 0371	031.8 023	295	13503 10228	4.9	0.4	16.3	-11.7	
160/15:40:11 47	47.9-111	00.5 0373	031.8 023	295	13776 10503	5.1	-0.1	-5.0	-10.8	W/P 5 55-48.7 97-49.5 YTH
160/15:40:27 47	49.2-110	59.1 0376	032.1 023	295	14215 11048	4.4	0.1	0.9	-12.1	W/P 6 58-46.5 96 33.6 YVQ
160/15:40:39 47	50.4-110	57.9 0382	032.0 025	281	14424 11254	3.6	-0.5	13.5	-12.5	W/P 7 61-05.9 94-04.1 YEK
160/15:40:51 47	51.5-110	56.8 0393	032.1 026	272	14605 11810	4.2	-0.3	8.8	-14.2	
160/15:41:03 47	52.5-110	55.9 0393	032.0 027	274	14748 11745	4.2	-0.6	4.1	-11.7	W/P 8 62-40.3 92-05.4 YXT
160/15:41:17 47	53.8-110	54.4 0397	031.9 025	272	15170 12164	4.2	0.1	11.3	-14.7	W/P 1' 64-50 93 CD
160/15:41:33 47	55.3-110	52.9 0400	032.1 026	272	15564 12999	5.4	0.4	-0.9	-14.9	W/P 2' 63-46.7 81 14.4 LUK
160/15:41:39 47	55.8-110	52.4 0399	032.1 027	272	15771 12646	5.3	0.4	3.1	-15.3	CORRECTION: YUK
160/15:41:45 47	56.3-110	51.8 0399	032.4 025	270	15969 12997	5.1	0.7	26.1	-17.4	W/P 3' 73
160/15:41:59 47	57.5-110	50.5 0399	033.2 021	267	16405 13169	4.9	0.8	15.4	-18.5	W/P 3' 73 24.0 76-50.0
160/15:42:01 47	57.7-110	50.2 0399	033.2 022	265	16468 13200	5.0	0.5	16.3	-18.0	
160/15:42:19 47	59.2-110	48.5 0399	033.7 017	277	17020 13636	5.0	0.2	16.0	-18.3	W/P 4' 75-10.0 72-45.0
160/15:42:33 48	00.6-110	47.2 0399	033.9 015	282	17452 14204	4.9	0.4	17.1	-19.2	W/P 9 76-32.0 69-42.0 EGTL.
160/15:43:01 48	03.0-110	44.4 0398	035.1 015	285	18274 15120	4.9	-0.2	19.2	-20.0	
160/15:44:01 48	08.6-110	38.3 0403	034.5 018	264	19831 16892	3.9	-0.7	16.0	-23.8	
160/15:45:01 48	13.8-110	32.5 0414	035.6 011	270	20795 17716	4.0	-0.2	17.9	-27.3	
160/15:46:01 48	19.3-110	26.4 0422	035.5 008	256	21944 19161	3.8	-0.2	2.2	-29.2	
160/15:47:01 48	25.2-110	19.8 0429	035.5 009	252	22970 19904	4.0	0.1	-10.1	-28.8	
160/15:48:01 48	30.9-110	13.6 0429	036.4 007	095	24269 21353	4.0	-0.4	-10.0	-33.6	
160/15:49:01 48	36.7-110	07.4 0429	036.9 007	124	25409 22770	3.8	-0.7	-10.4	-37.2	
160/15:50:01 48	42.8-110	00.8 0441	037.5 007	157	26228 23335	3.2	0.1	-9.7	-39.3	
160/15:50:27 48	45.1-109	58.0 0446	037.8 010	141	26526 23473	3.3	0.5	-17.3	-37.9	RADAR 3 OPEN.
160/15:51:01 48	48.5-109	54.0 0452	037.5 007	141	26718 23803	3.3	-0.1	-10.2	-39.5	
160/15:52:01 48	54.6-109	47.2 0457	037.7 007	124	27716 24461	3.2	0.3	-17.4	-43.3	
160/15:53:01 49	00.8-109	40.3 0457	037.7 007	125	28728 25736	3.5	0.0	-16.7	-46.2	
160/15:54:01 49	06.6-109	33.0 0453	044.9 012	105	29723 26410	3.7	1.4	-16.5	-45.7	
160/15:55:01 49	11.8-109	25.0 0451	046.2 011	106	30653 27368	3.9	0.1	-13.9	-50.5	
160/15:56:01 49	17.3-109	16.6 0447	044.8 009	042	31548 28193	3.7	0.3	-11.1	-52.6	
160/15:57:01 49	22.4-109	08.8 0436	045.5 018	051	32561 29157	4.2	-0.1	-5.4	-51.2	
160/15:58:01 49	27.5-109	01.1 0438	044.7 018	035	32962 29233	2.9	-0.2	-10.5	-50.7	
160/15:59:01 49	32.8-108	52.9 0440	044.9 015	033	32948 29216	2.7	0.7	-5.2	-50.1	
160/16:00:01 49	38.0-108	45.0 0440	045.2 017	037	32939 29160	3.0	-0.2	-2.5	-51.8	
160/16:01:01 49	43.0-108	37.0 0438	044.8 016	023	32934 29863	2.9	-0.1	11.6	-50.5	
160/16:02:01 49	48.3-108	28.9 0437	044.9 014	021	32940 29860	3.1	0.0	-1.3	-50.3	
160/16:03:01 49	53.2-108	20 9 0439	045.6 006	020	32962 29718	2.9	0.1	-2.0	-50.0	
160/16:04:01 49	58.2-108	12.7 0448	045.8 007	052	32952 29953	3.0	-0.2	-3.0	-50.5	
160/16:04:59 50	03.5-108	04.3 0456	046.7 010	086	32951 29999	2.5	0.2	-4.3	-50.6	33,000FT.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
160/16:05:01	50	03.8-108	04.2	0457	046.8	011	092	32940	30014	2.6	0.2	-3.8	-50.9	
160/16:06:01	50	08.9-107	55.7	0463	047.2	012	102	32959	30074	2.5	0.0	-5.1	-51.1	
160/16:07:01	50	14.3-107	47.0	0467	047.9	015	132	32952	30179	2.4	0.3	-5.4	-53.3	
160/16:08:01	50	20.0-107	38.1	0472	047.5	023	148	32951	30150	2.5	0.3	-1.6	-50.2	
160/16:09:01	50	25.4-107	29.5	0476	049.0	030	147	32952	30171	2.5	-0.1	-4.6	-50.4	
160/16:10:01	50	30.9-107	20.5	0480	050.2	039	150	32946	30302	2.6	0.1	-0.1	-51.8	
160/16:11:01	50	36.8-107	11.5	0481	051.3	048	149	32944	30243	2.6	0.4	10.5	-48.9	
160/16:12:01	50	42.3-107	02.6	0481	052.3	055	150	32949	30440	2.5	0.2	-3.3	-51.7	
160/16:13:01	50	47.8-106	53.7	0483	052.5	057	150	32945	30754	2.4	0.2	2.1	-50.0	
160/16:14:01	50	53.6-106	44.3	0484	052.8	058	151	32951	30649	2.3	0.1	4.5	-51.8	
160/16:15:01	50	59.1-106	35.2	0485	053.0	058	154	32926	30864	2.5	0.2	1.7	-51.7	
160/16:16:01	51	04.7-106	26.0	0486	053.1	060	155	32945	30917	2.5	0.0	-2.6	-51.4	
160/16:17:01	51	10.3-106	16.6	0485	053.5	060	149	32949	30855	2.3	0.4	-2.6	-51.1	
160/16:18:01	51	15.8-106	07.3	0483	053.3	058	144	32940	30737	2.3	-0.1	-4.8	-50.7	
160/16:19:01	51	21.3-105	58.0	0479	053.2	056	144	32937	30818	2.3	0.0	-2.6	-50.8	
160/16:20:01	51	26.7-105	48.8	0475	053.1	054	144	32939	30759	2.5	0.0	-8.8	-51.7	
160/16:21:01	51	32.2-105	39.6	0472	052.9	050	146	32925	30372	2.4	0.4	-12.1	-52.4	
160/16:22:01	51	37.6-105	30.5	0470	053.2	050	148	32947	31076	2.5	-0.3	-13.0	-51.3	
160/16:23:01	51	43.0-105	21.0	0472	052.9	048	149	32934	31173	2.7	0.3	-11.5	-50.6	
160/16:24:01	51	48.4-105	11.7	0473	052.9	047	150	32957	31193	2.5	-0.3	-11.7	-52.5	
160/16:25:01	51	53.7-105	02.5	0476	053.0	048	153	32942	31107	2.5	-0.1	-9.6	-49.3	
160/16:26:01	51	59.3-104	52.9	0479	052.8	045	154	32940	31120	2.4	-0.3	-7.2	-50.3	
160/16:27:01	52	04.6-104	43.4	0481	052.8	044	156	32950	31087	2.2	0.0	-9.6	-51.8	
160/16:28:01	52	10.0-104	33.9	0484	052.4	041	155	32957	31119	2.3	0.3	-7.8	-50.7	
160/16:29:01	52	15.5-104	23.9	0485	052.2	038	155	32938	31046	2.4	0.5	-5.1	-51.0	
160/16:30:01	52	20.9-104	14.3	0485	052.0	035	159	32942	31070	2.3	-0.1	-3.7	-52.0	
160/16:31:01	52	26.1-104	04.5	0485	052.1	036	157	32947	31111	2.2	-0.2	-4.1	-51.8	
160/16:32:01	52	31.6-103	54.4	0484	052.0	034	162	32933	31164	2.4	-0.4	1.1	-50.0	
160/16:33:01	52	36.9-103	44.8	0483	052.1	034	158	32946	31245	2.3	0.4	-1.4	-50.6	
160/16:34:01	52	42.3-103	34.9	0483	051.7	029	162	32948	31433	2.5	-0.1	-3.9	-52.0	
160/16:35:01	52	47.7-103	24.8	0483	051.9	030	168	32938	31437	2.5	-0.1	-3.1	-51.7	
160/16:36:01	52	53.0-103	14.9	0484	051.6	029	172	32945	31361	2.4	0.4	-1.0	-48.9	
160/16:37:01	52	58.1-103	04.9	0485	051.5	026	170	32952	31374	2.4	0.1	-1.2	-49.8	
160/16:38:01	53	03.6-102	54.6	0485	051.5	026	177	32944	31155	2.4	0.3	-1.4	-49.5	
160/16:39:01	53	08.9-102	44.5	0485	051.2	024	184	32946	31036	2.2	0.4	-1.4	-49.6	
160/16:40:01	53	14.2-102	34.6	0485	051.2	022	184	32934	31106	2.2	0.2	-1.4	-49.3	
160/16:41:01	53	19.6-102	23.9	0486	051.1	023	194	32949	30561	2.4	-0.2	-1.4	-51.4	
160/16:42:01	53	24.7-102	13.9	0488	050.9	024	194	32946	30864	2.3	0.2	-1.2	-49.5	
160/16:43:01	53	30.0-102	03.6	0489	051.0	025	203	32937	32154	2.4	0.0	-0.8	-49.3	
160/16:43:41	53	33.6-101	56.3	0490	051.0	026	205	32939	32180	2.5	0.2	-0.4	-49.7	PHOTO - TOTAL CLOUD UNDER THE AIRCRAFT. NO PHOTO AT THIS TIME UNLESS CLOUDS BREA
160/16:44:01	53	35.3-101	53.0	0491	051.1	030	208	32930	32191	2.6	0.3	-0.5	-49.3	
160/16:45:01	53	40.5-101	42.4	0493	051.0	027	211	32943	32206	2.4	0.1	-0.7	-49.0	
160/16:46:01	53	45.8-101	31.9	0495	050.7	026	220	32958	32230	2.2	0.3	1.6	-48.8	
160/16:47:01	53	51.2-101	21.0	0498	050.7	029	223	32933	32154	2.4	0.1	1.8	-49.5	
160/16:48:01	53	56.5-101	10.2	0500	050.5	028	227	32952	32377	2.2	-0.1	2.1	-50.0	
160/16:49:01	54	02.2-100	59.9	0502	043.9	031	233	32941	32230	2.3	-0.8	-0.1	-50.6	
160/16:50:01	54	08.3-100	49.6	0504	043.8	034	234	32937	32260	2.3	-0.1	-0.5	-48.0	
160/16:51:01	54	14.2-100	39.7	0506	043.9	031	238	32944	32204	2.2	0.1	-0.4	-48.9	
160/16:52:01	54	20.2-100	29.6	0507	043.8	033	239	32933	32089	2.2	-0.2	-0.8	-50.0	
160/16:53:01	54	26.1-100	19.3	0508	043.6	035	242	32944	32245	2.2	-0.1	1.1	-47.5	
160/16:54:01	54	32.1-100	09.1	0510	043.5	037	246	32938	32089	2.3	0.0	-0.9	-48.0	
160/16:55:01	54	38.0-099	58.8	0508	042.4	039	259	32944	32114	2.3	0.4	-0.7	-48.2	
160/16:56:01	54	44.1-099	48.2	0507	042.2	042	268	32955	32235	2.2	-0.2	-4.2	-50.5	
160/16:57:01	54	49.9-099	37.9	0506	042.7	042	261	32922	32136	2.4	-0.1	-4.7	-48.5	
160/16:58:01	54	55.8-099	27.4	0505	042.1	045	266	32937	32247	2.4	0.3	-5.7	-49.2	
160/16:59:01	55	01.6-099	16.9	0505	042.3	046	267	32948	32137	2.2	0.1	-5.0	-49.2	
160/17:00:01	55	07.4-099	06.3	0507	042.2	049	265	32935	32124	2.3	0.0	-6.4	-49.2	
160/17:01:01	55	13.2-098	55.8	0508	042.8	051	259	32927	32140	2.4	-0.2	-5.2	-49.9	
160/17:02:01	55	19.2-098	44.9	0510	042.8	049	261	32949	32196	2.2	0.0	-5.6	-50.5	
160/17:03:01	55	25.2-098	34.1	0510	043.2	043	266	32966	32096	2.1	0.1	-5.0	-50.2	

YEAR 1984 ARDAS FLIGHT LOG — FLIGHT NO. 4 — HIPEX

---TIME---	--LAT--	--LONG--	GRD SPD	TRUE HEAD	+HDG-- SPD	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	-TEMP- IR	AIR	
160/17:04:01	55	30.9-093	73.3	0503	044.0	031	271	32952	32203	2.0	-0.2	-11.7	-49.2	
160/17:05:01	55	36.8-093	12.2	0505	043.9	033	273	32928	32209	2.0	0.1	-17.0	-48.8	
160/17:06:01	55	42.4-093	01.2	0499	044.4	030	272	32937	32268	2.1	-0.3	-13.0	-48.3	
160/17:07:01	55	48.0-097	51.2	494	039.7	026	276	32953	32165	2.1	-10.8	-15.1	-49.0	
160/17:07:17	55	49.7-097	48.5	0 92	034.8	027	274	32945	32356	2.1	-9.5	-15.9	-48.3	RH - TRACKING OVER N/P 5.
160/17:08:01	55	54.8-097	42.4	0488	027.5	028	270	32936	32217	2.2	-0.6	-11.3	-47.9	
160/17:09:01	56	01.5-097	34.7	0484	029.8	030	267	32922	32218	2.4	0.0	-12.1	-50.0	
160/17:10:01	56	08.2-097	27.1	0482	030.1	032	267	32952	32200	2.3	0.1	-5.9	-48.1	
160/17:11:01	56	15.1-097	19.0	0483	029.3	037	268	32938	32427	2.4	0.2	-8.7	-47.4	
160/17:12:01	56	21.8-097	11.1	0484	028.8	041	272	32956	32115	2.2	0.1	-4.3	-49.5	
160/17:13:01	56	28.6-097	03.2	0487	029.6	041	270	32954	32231	2.3	0.0	-4.0	-48.8	
160/17:14:01	56	35.5-096	55.0	0490	029.1	045	263	32946	32176	2.4	-0.1	-1.9	-48.1	
160/17:15:01	56	38.9-096	51.0	0492	029.3	044	260	32940	32183	2.4	-0.2	-7.8	-49.0	BOTH RADAR CAMERAS GOING ON.
160/17:15:01	56	42.3-096	46.8	0494	029.2	045	261	32962	31967	2.4	-0.1	13.7	-49.1	
160/17:15:31	56	45.8-096	42.5	0496	029.3	047	253	32952	32017	2.4	-0.1	-28.1	-49.9	RADAR 4 OPEN.
160/17:15:51	56	48.2-09	39.8	0497	029.3	046	261	32949	32107	2.3	0.0	13.6	-50.6	CAMERAS ON 17 16 CO.
160/17:16:01	56	49.0-096	38.4	0493	029.4	047	259	32942	32058	2.3	0.0	12.6	-50.8	
160/17:17:01	56	56.3-096	30.0	0503	029.6	050	255	32944	32012	2.3	-0.1	-2.4	-49.6	
160/17:18:01	57	03.2-096	21.4	0507	029.9	053	250	32946	32044	2.3	-0.2	13.2	-49.8	
160/17:19:01	57	10.1-096	12.9	0511	030.1	055	250	32948	31935	2.2	0.0	13.3	-49.6	
160/17:20:01	57	17.3-096	03.9	0515	030.1	056	251	32951	31957	2.2	0.1	11.9	-49.8	
160/17:21:01	57	24.3-095	55.1	0518	029.9	058	251	32926	31940	2.2	0.0	10.6	-49.9	
160/17:22:01	57	31.3-095	46.1	0521	030.4	059	247	32926	31916	2.2	0.0	9.3	-49.7	
160/17:23:01	57	38.7-095	36.6	0524	031.0	059	246	32948	31955	2.1	-0.2	9.6	-48.7	
160/17:24:01	57	45.8-095	27.4	0526	030.6	063	246	32949	32192	2.2	0.1	10.1	-50.8	
160/17:25:01	57	52.9-095	18.4	0526	030.3	059	256	32947	31950	2.0	-0.1	12.7	-47.1	
160/17:25:51	57	56.9-095	10.5	0524	030.4	062	254	32940	31946	2.1	-0.2	10.9	-49.1	COMING UP ON CLOUD COVERAGE.
160/17:29:01	58	00.2-095	03.8	0524	030.2	061	254	32943	31938	1.9	-0.3	11.7	-47.9	
160/17:29:01	58	07.3-094	59.3	0522	030.3	057	259	32942	32144	2.0	-0.2	9.2	-48.0	
160/17:28:01	58	14.3-094	49.9	0520	029.9	062	259	32933	32211	2.1	-0.2	7.2	-47.0	PASSING THRU A BAND OF CLOUDS CUT IS CLEAR ON THE OTHER SIDE OF THEM.
160/17:29:01	58	21.4-094	40.2	0518	030.3	060	258	31953	32287	2.0	-0.2	-0.6	-47.3	
160/17:30:01	58	28.5-094	30.7	0517	031.3	063	260	32949	32355	2.0	-0.4	11.0	-49.8	
160/17:31:01	58	35.4-094	21.3	0515	030.9	055	259	32916	32360	2.1	-0.1	8.8	-47.1	LORAN C SYSTEM IS OPERATING ON THE LABRADOR SEA - 7930.
160/17:31:41	58	40.2-094	14.9	0514	031.2	053	258	32931	32412	2.1	-0.2	10.0	-46.2	
160/17:32:01	58	42.5-094	11.6	0513	031.1	056	257	32935	32453	2.1	-0.3	6.6	-47.2	
160/17:32:09	58	43.4-094	10.5	0513	031.1	056	257	32923	32428	2.0	-0.4	9.2	-48.9	STARBORD - LEDS OPEN , LAKE ICE ON AT AND ICE NOTH OF ICE ON IT.
160/17:32:23	58	45.0-094	03.3	0513	031.2	055	256	32945	32392	2.0	-0.3	6.9	-47.5	STARBORD SIDE.
160/17:32:35	58	46.4-094	06.3	0513	031.1	054	257	32943	32426	2.2	-0.2	-1.1	-48.2	CHURCHILL AT 17 32 28.
160/17:32:49	58	47.8-094	04.3	0512	031.4	054	254	32937	32412	2.2	-0.3	-1.4	-46.7	OVER SEA ICE IN THE HUDSON BAY.
160/17:33:01	58	49.3-094	02.1	0512	031.8	054	254	32947	32419	2.2	0.0	-1.8	-47.9	
160/17:33:07	58	50.0-094	01.3	0511	028.9	056	258	32941	32455	[illegible]		-1.7	-46.6	MORE THAN 90 PERCENT COVER, CLOUDS OVER THE ICE.
160/17:33:01	58	56.7-094	00.2	0446	310.5	050	248	32952	32447	[illegible]		-2.0	-47.3	
160/17:34:23	58	59.2-094	05.3	0453	331.3	045	255	32926	32426	3.0	27.5	-2.0	-47.5	ASN - STARTING MARE TEST DATA RUN OVER SEA ICE. PATCHY CLOUDS.
160/17:34:51	59	02.5-094	04.3	0473	352.6	054	256	32893	32355	2.5	3.7	-1.7	-45.2	NOT ON LEVEL FLIGHT YET - STILL TURNING FOR CHURCHILL.
160/17:35:01	59	04.0-094	04.2	0474	354.2	051	256	32899	32369	2.4	1.6	-1.6	-44.2	
160/17:35:07	59	04.7-094	04.2	0474	354.8	051	256	32906	32366	2.5	1.0	-1.7	-44.2	50 PERCENT CLOUD COVERS, LOTS ICEBERGS.
160/17:35:01	59	11.7-094	04.1	0473	354.1	050	251	32939	32401	2.5	0.4	-2.1	-46.2	
160/17:36:39	59	16.5-094	04.0	0474	355.5	053	252	32945	32368	2.4	-0.2	-2.7	-47.3	50 PERCENT STRATUS.
160/17:36:53	59	18.6-094	03.9	0474	355.5	053	253	32953	32380	2.4	-0.3	-2.4	-47.3	SMALL LEADS POLYNYA AT RANKIN.
160/17:37:01	59	19.5-094	04.1	0475	353.5	052	255	32946	32375	2.2	-0.1	-2.5	-46.8	
160/17:37:05	59	20.2-094	04.0	0475	353.5	053	254	32938	32366	2.4	-0.3	-3.0	-46.1	95 PERCENT ICE CONCENTRATION.
160/17:38:01	59	27.5-094	04.1	0476	354.1	050	256	32943	32339	2.3	-0.3	-3.7	-45.0	
160/17:39:01	59	35.4-094	04.0	0477	354.3	047	260	32943	32328	2.2	-0.2	-3.2	-43.7	
160/17:40:01	59	43.4-094	04.0	0476	354.1	050	270	32952	32265	2.2	0.0	-3.0	-45.2	
160/17:40:17	59	45.5-094	04.1	0475	353.0	050	265	32949	32242	2.1	-0.5	-3.1	-46.8	ICE CONCENTRATION INCREASES AS WE GO NORTH ALMOST 100 PERCENT
160/17:40:29	59	46.9-094	04.1	0475	353.9	050	264	32946	32272	2.1	0.4	-3.2	-45.3	STILL 80 PERCENT STRATUS CLOUDS.
160/17:40:43	59	48.9-094	04.1	0475	353.9	049	266	32946	32254	2.2	0.0	-3.0	-46.6	ASN - 1 DATA POINT PER SECOND.
160/17:41:01	59	51.3-094	04.1	0475	353.8	050	266	32949	32248	2.2	0.2	-3.7	-44.7	
160/17:41:13	59	52.6-094	04.1	0474	354.0	048	265	32934	32233	2.2	-0.1	-1.9	-46.9	SHEAR RIDGES ON THE SHORELINE OFF TO THE LEFT.
160/17:41:33	59	55.5-094	04.0	0474	354.1	047	261	32952	32232	2.3	0.6	-1.9	-44.7	EXTENSIVE SNOW COVER ON THE ICE.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
160/17:42:01	59	59.1-094	04.1	0474	354.3	048	262	32933	32233	2.3	-0.1	-2.9	-43.8	
160/17:43:01	60	06.9-094	04.1	0471	354.0	046	266	32945	32231	2.3	-0.1	-2.4	-44.1	
160/17:43:39	60	12.0-094	04.1	0470	354.5	044	264	32941	32230	2.3	0.4	-2.6	-42.5	ICO PERCENT ICE COVER, ICO STRATUS
160/17:43:59	60	14.6-094	04.1	0470	354.8	042	267	32951	32226	2.1	0.0	-2.2	-44.0	STRATUS CUMULUS ICO PERCENT, ICO PERCENT ICE COVER AT
160/17:44:01	60	15.0-094	04.0	0470	354.7	043	267	32950	32223	2.2	-0.5	-2.3	-44.3	I
160/17:44:21	60	17.5-094	04.1	0469	354.8	040	268	32946	32230	2.3	0.1	-4.3	-43.8	STRATUSCUMULUS 100 PERCENT, 100 PERCENT ICE COVERA T 17 43 50.
160/17:44:35	60	19.3-094	04.1	0469	354.9	041	267	32948	32203	2.3	0.1	-6.9	-44.7	ANN - MAKE UP TO 2 POINTS PER SECOND.
160/17:44:57	60	22.1-094	04.1	0469	354.8	042	267	32945	32226	2.2	-0.5	-7.0	-44.7	LOOKING FORWARD WE SEE PATCHES STRATUSCUMULUS AT CLOUDS ALL AROUND - PATCHY.
160/17:45:01	60	22.6-094	04.1	0469	354.7	043	269	32941	32199	2.1	-0.5	-6.1	-45.4	
160/17:45:05	60	23.2-094	04.0	0469	354.8	043	266	32936	32171	2.2	-0.2	-10.1	-43.8	ICO PERCENT CLOUDS - NO PHOTO.
160/17:45:41	60	27.7-094	04.1	0468	354.8	041	269	32946	32160	2.2	0.3	-9.9	-42.9	CORRECTION: STRATOCUMULUS.
160/17:46:01	60	30.2-094	04.1	0467	354.8	043	269	32949	32177	2.3	-0.7	-10.5	-44.4	
160/17:47:01	60	38.2-094	04.1	0466	354.7	041	271	32939	32156	2.2	0.3	-10.7	-43.9	
160/17:47:11	60	39.6-094	04.0	0466	354.7	043	272	32937	32147	2.4	0.2	-10.9	-42.8	CLEAR PATCH TO THE RIGHT OF THE AIRCRAFT, ICO PERCENT CONCENTRATION.
160/17:47:17	60	40.4-094	04.1	0466	354.7	042	270	32939	32167	2.0	0.2	-11.0	-43.5	EXTENSIVE SNOW COVER ON THE ICE.
160/17:48:01	60	45.9-094	04.1	0466	354.9	040	272	32952	32160	2.2	-0.1	-11.3	-42.8	
160/17:48:39	60	50.9-094	04.1	0467	355.1	040	270	32946	32143	2.3	-0.5	-11.1	-42.6	STRATUS LAYER GETTING THICKER AT WE PROCEED NORTH.
160/17:49:01	60	53.6-094	04.1	0467	355.0	039	275	32949	32145	2.3	0.3	-11.3	-40.2	
160/17:50:01	61	01.5-094	04.0	0468	355.2	039	275	32942	32110	2.2	-0.2	-11.0	-41.6	
160/17:51:01	61	09.4-094	04.1	0468	355.0	042	275	32948	32089	2.1	-0.1	-11.7	-43.7	
160/17:51:03	61	09.4-094	04.1	0468	355.0	041	278	32952	32091	2.1	-0.4	-11.3	-42.0	ALMOST ON THE COASTLINE AT THIS PART OF HUDSON BAY - NORTH .
160/17:51:09	61	10.2-094	04.1	0468	354.9	043	270	32962	32092	2.0	-0.4	-10.8	-42.8	OPEN WATER PATCHES, .
160/17:51:37	61	14.1-094	03.8	0473	007.6	035	282	33000	32154	2.3	27.6	-11.7	-43.4	CLOUD COVER IS 60 PERCENT STRATOCUMULUS.
160/17:52:01	61	16.8-094	01.5	0485	025.2	039	285	32926	32059	1.9	-1.2	-11.6	-41.9	
160/17:52:59	61	23.8-093	53.6	0484	024.9	035	284	32932	32072	2.2	0.3	-10.9	-40.9	THIS LEG WE ARE FLYING OVER NUMEROUS POLYNA AND SMALL LEADS.
160/17:53:01	61	24.0-093	53.2	0484	025.0	035	282	32934	32062	2.2	1.2	-11.1	-41.7	
160/17:53:07	61	24.7-093	52.3	0484	025.2	035	280	32935	32052	2.1	1.5	-10.8	-40.0	60 PERCENT ICE CONCENTRATION.
160/17:54:01	61	30.9-093	45.0	0484	025.1	040	291	32950	32036	2.0	0.2	-10.0	-42.4	
160/17:54:39	61	35.4-093	39.7	0483	025.9	036	292	32940	32017	2.0	0.2	-9.4	-41.4	SHEAR ZONE PARALLELING THE NORTH COAST OF HUDSON BAY.
160/17:55:01	61	37.7-093	36.7	0483	025.8	036	290	32941	32049	2.0	0.0	-9.8	-42.3	
160/17:55:17	61	39.7-093	34.3	0483	026.1	036	287	32947	32024	2.1	-0.4	-8.5	-41.5	UNDISTURB ICE BELOW IS 90 PERCENT ICE CONCENTRATION.
160/17:56:01	61	44.9-093	27.9	0482	026.0	036	289	32946	31991	2.1	-0.3	-9.0	-40.9	
160/17:56:15	61	46.3-093	25.8	0482	026.1	035	287	32946	32019	2.0	-0.2	-9.1	-40.6	NEW SNOW MELT ON TOP OF THE ICE - LEFT SIDE OF THE AIRCRAFT - LAKES LOOK BLUE.
160/17:56:31	61	48.3-093	23.8	0482	026.1	034	286	32953	31999	2.0	0.4	-4.9	-39.5	FLYING OVER LAKES WITH RECENTLY MELTED SNOW ON THE SURFACE.
160/17:56:35	61	48.9-093	23.2	0482	026.1	034	291	32941	31993	2.0	0.1	-6.9	-40.8	50 PERCENT CLOUDS.
160/17:57:01	61	51.8-093	19.3	0481	026.4	033	296	32941	31981	2.0	0.0	-4.3	-39.7	CAMERAS ON.
160/17:57:15	61	53.4-093	17.3	0481	026.0	038	293	32940	31926	2.0	-0.2	7.7	-41.4	CLEAR PATCH FOR ABOUT 10 MILES.
160/17:57:31	61	55.2-093	15.1	0481	025.8	038	296	32933	31971	2.0	-0.4	-3.9	-39.6	CLOUD COVER DECREASES AS WE GO ALONG 70 PERCENT STRATUS.
160/17:58:01	61	58.6-093	10.9	0480	026.2	035	294	32937	31964	2.2	-0.6	-5.2	-41.8	
160/17:58:43	62	03.5-093	04.8	0478	026.6	032	291	32938	31964	2.2	-0.1	0.4	-39.9	50 PERCENT SURFACE IS LAKE ICE.
160/17:58:49	62	04.2-093	03.9	0478	026.7	033	290	32937	31972	2.2	-0.3	5.7	-40.8	RECENTLY MELTED SNOW.
160/17:59:01	62	05.6-093	02.2	0478	026.9	032	288	32937	31922	2.2	-0.1	7.8	-40.9	
160/18:00:01	62	12.3-092	53.6	0478	027.1	032	295	32946	31926	2.2	-0.5	-4.1	-39.7	
160/18:00:57	62	18.8-092	45.5	0476	027.2	030	288	32933	31852	2.3	-0.4	-5.7	-39.0	FLYING OVER THE SHORELINE - AZIMUTH NO DIFFERENCE BETWEEN SEA ICE.
160/18:01:01	62	19.2-092	44.9	0476	027.2	031	288	32940	31794	2.2	0.3	-6.4	-40.3	
160/18:01:05	62	19.6-092	44.2	0476	027.1	030	294	32936	31886	2.2	0.2	-5.3	-40.0	50 PERCENT LAKE ICE.
160/18:02:01	62	26.0-092	36.0	0475	026.9	032	295	32942	31940	2.4	0.4	-9.6	-39.3	
160/18:03:01	62	32.7-092	27.2	0473	027.4	031	296	32943	31867	2.4	0.1	2.5	-39.5	
160/18:03:47	62	38.0-092	20.3	0473	027.9	029	303	32944	31805	2.2	-0.1	-2.4	-39.3	SAW MELT PONDS ON THE ICE AT 18 01 56.
160/18:03:55	62	38.7-092	19.2	0473	027.9	028	301	32938	31804	2.1	-0.3	-0.8	-40.2	50 PERCENT CLOUDS ARE STRATOCUMULUS.
160/18:04:01	62	39.4-092	18.6	0473	028.0	029	301	32945	31843	2.2	-0.2	-0.3	-40.3	
160/18:04:21	62	41.5-092	15.4	0472	028.0	027	302	32935	31907	2.2	-0.2	-10.1	-38.0	LARGE RECENTLY FROZEN POLYNYA ON RIGHT SIDE OF AIRCRAFT.
160/18:04:49	62	44.8-092	11.1	0471	027.7	029	305	32940	31897	2.2	-0.7	-3.9	-40.1	18 04 N
160/18:04:59	62	46.1-092	09.5	0471	027.8	029	307	32950	31899	2.1	-0.1	-3.1	-40.3	18 04 54 LEAVE
160/18:05:01	62	46.2-092	09.5	0471	027.7	029	309	32944	31902	2.1	-0.4	-2.9	-39.6	
160/18:05:07	62	46.9-092	08.6	0470	027.7	030	311	32943	31902	2.3	-0.9	-1.7	-40.9	18 04 54 LEAVING HUDSON BAY.
160/18:05:13	62	47.3-092	08.1	0470	027.7	029	307	32951	31893	2.1	-0.3	4.7	-39.6	CAMERAS OFF 18 04 CO.
160/18:06:01	62	52.9-092	00.6	0471	035.2	030	307	32935	31675	2.0	-2.8	-1.0	-40.3	
160/18:07:01	62	59.5-091	52.4	0464	021.8	029	295	32932	31604	2.3	1.4	-0.6	-38.3	
160/18:07:15	63	01.1-091	50.7	0464	022.6	028	297	32936	31485	2.4	1.1	-10.0	-40.7	18 04 54 LEAVING HUDSON BAY.

YEAR 1984 ADDAS FLIGHT LOG ---- FLIGHT NO. 4 ---- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
160/18:08:01	63 06.4	-091 44.5	0465	024.4	027	298	32941	31303	2.4	0.1	0.8	-39.5	
160/18:09:01	63 13.2	-091 36.6	0467	025.0	024	295	32947	31319	2.3	0.0	2.0	-38.2	
160/18:10:01	63 20.0	-091 28.5	0468	024.9	027	290	32926	31526	2.4	-0.1	-5.5	-36.3	
160/18:11:01	63 27.1	-091 20.0	0470	025.5	022	301	32934	31727	2.1	0.1	3.5	-38.6	
160/18:11:17	63 28.9	-091 17.8	0471	025.6	023	296	32900	31797	2.1	0.1	1.6	-37.9	LARGE POLYNYA TO THE RIGHT OF THE AIRCRAFT TO THE NORTH OF HUDSON BAY.
160/18:12:01	63 33.9	-091 11.7	0477	025.7	024	295	32677	31547	1.5	-0.5	-5.7	-40.5	
160/18:13:01	63 40.9	-091 03.2	0489	026.0	022	305	32179	30874	0.8	0.0	-3.3	-39.9	
160/18:14:01	63 48.4	-090 54.0	0501	026.5	022	316	31477	30008	0.6	0.3	3.8	-38.9	
160/18:15:01	63 55.5	-090 44.9	0498	026.0	028	329	30974	29523	1.3	0.4	-0.1	-40.4	
160/18:16:01	64 02.6	-090 36.1	0479	026.4	022	317	30963	29575	1.8	0.0	-2.5	-41.3	
160/18:17:01	64 09.5	-090 27.3	0472	027.1	018	319	30989	29658	1.9	0.1	3.9	-37.3	
160/18:17:41	64 14.1	-090 21.4	0471	027.2	018	302	30995	29662	1.9	-0.4	-14.6	-40.1	SNOW MELT ON SOME OF THE FROZEN LAKES.
160/18:18:01	64 16.4	-090 18.4	0471	027.0	020	320	30996	29656	1.8	-0.1	-14.2	-39.8	
160/18:19:01	64 23.1	-090 09.6	0471	026.9	020	313	30995	29339	1.8	0.5	-12.9	-39.6	
160/18:20:01	64 29.9	-090 00.5	0471	029.6	018	306	30987	29225	1.8	3.1	-5.2	-39.3	
160/18:21:01	64 36.4	-089 50.4	0471	033.0	018	317	30994	29199	1.8	0.6	-13.6	-38.2	
160/18:22:01	64 42.8	-089 39.8	0471	033.2	018	321	30992	29010	1.9	-0.3	5.6	-38.6	
160/18:23:01	64 49.2	-089 29.1	0470	033.7	018	320	30992	28575	1.8	-0.4	-0.4	-40.8	
160/18:24:01	64 55.5	-089 18.4	0470	033.7	020	327	30992	28657	1.7	-0.1	-2.5	-39.2	
160/18:24:29	64 58.6	-089 13.2	0470	033.3	021	319	30982	28630	1.7	-0.5	-5.5	-39.3	GEORGIA TECH HAS BEEN DOWN FOR THE WHOLE FLIGHT.
160/18:25:01	65 01.8	-089 07.9	0470	033.3	021	322	30995	28919	1.7	0.0	-12.2	-38.4	
160/18:26:01	65 08.3	-088 56.6	0471	034.0	017	315	30987	28863	1.8	0.1	-15.9	-39.9	
160/18:26:33	65 11.5	-088 50.9	0471	034.5	014	316	30990	28709	1.9	0.4	-16.2	-39.2	50 PERCENT STRATUS CLOUDS.
160/18:27:01	65 14.6	-088 45.7	0471	034.7	014	316	30999	28726	1.8	0.1	-14.8	-38.9	
160/18:28:01	65 20.7	-088 34.7	0470	034.7	016	326	30995	29701	1.8	-0.3	-7.2	-39.7	
160/18:29:01	65 27.2	-088 23.4	0469	034.5	018	329	31006	29696	1.6	0.3	-10.2	-38.3	
160/18:30:01	65 33.4	-088 12.1	0469	034.8	019	332	30992	29503	1.7	-0.2	-16.1	-40.6	
160/18:34:22	00 00.0	000 00.0	0000	000.0	000	000	30993	29040	1.8	-0.5	-12.0	-39.7	
160/18:34:42	66 02.2	-087 18.6	0468	036.4	011	342	30990	29138	1.7	0.1	-14.7	-36.9	ADDAS WENT DOWN AT 18 30 AND BACK UP AT 18 34.
160/18:35:00	66 04.3	-087 14.8	0468	036.6	010	346	30995	29032	1.9	0.4	-14.9	-37.5	
160/18:36:00	66 10.5	-087 02.8	0469	036.8	010	339	30983	29223	1.8	0.1	-14.8	-39.2	
160/18:37:00	66 16.6	-086 51.2	0468	037.1	010	346	30999	29266	1.8	0.3	-13.4	-38.3	
160/18:38:00	66 22.6	-086 39.5	0468	037.2	012	356	30996	29693	1.7	0.1	-14.2	-39.5	
160/18:39:00	66 28.8	-086 27.2	0469	037.3	009	348	30988	29688	2.0	0.0	-14.2	-38.0	
160/18:40:00	66 34.9	-086 15.2	0469	037.7	011	354	30986	29366	1.7	0.6	-12.7	-39.4	
160/18:41:00	66 41.0	-086 02.8	0470	037.9	011	001	30998	29136	1.8	0.2	-13.3	-38.5	
160/18:42:00	66 47.2	-085 50.0	0469	038.4	012	011	30988	29056	1.7	0.9	-13.2	-37.7	
160/18:43:00	66 53.2	-085 37.7	0469	038.0	012	357	30992	28829	1.6	-0.2	-12.1	-38.9	
160/18:44:00	66 59.2	-085 25.3	0469	038.5	011	001	30985	28938	1.7	0.1	-11.9	-40.3	
160/18:45:00	67 05.4	-085 12.5	0469	038.9	011	016	30998	29510	1.6	0.2	-11.6	-39.8	
160/18:46:00	67 11.3	-084 59.9	0469	039.1	011	011	30997	29070	1.3	0.1	-15.6	-39.7	
160/18:47:00	67 17.1	-084 47.2	0470	039.6	010	028	30989	28931	1.6	0.3	-16.2	-40.6	
160/18:48:00	67 23.3	-084 33.8	0470	039.9	012	031	30997	28789	1.6	0.2	-15.8	-41.1	
160/18:49:00	67 29.2	-084 20.7	0470	040.4	009	046	30986	28756	1.6	0.2	-12.8	-40.0	
160/18:50:00	67 35.2	-084 07.6	0469	040.7	009	041	30989	28674	1.6	0.3	-10.0	-40.5	
160/18:51:00	67 41.1	-083 53.8	0467	040.6	012	047	30982	28550	1.5	0.4	-14.4	-42.2	
160/18:52:00	67 46.9	-083 40.7	0466	041.2	012	047	30989	28617	1.6	0.0	-19.0	-40.4	
160/18:53:00	67 52.6	-083 27.5	0466	041.3	010	052	30995	28925	1.6	0.0	-26.6	-40.6	
160/18:54:00	67 58.6	-083 13.8	0466	041.7	007	063	30987	28591	1.7	-0.2	-15.6	-41.1	
160/18:55:00	68 04.3	-083 00.1	0466	041.8	010	057	30988	28581	1.6	0.2	-18.4	-40.2	
160/18:56:00	68 10.1	-082 46.3	0465	041.8	008	053	30995	28937	1.7	0.4	-15.7	-39.6	
160/18:56:06	68 10.8	-082 44.8	0465	042.0	008	059	30991	29055	1.8	0.2	-16.0	-38.7	100 PERCENT STRATUS CLOUD AS WE APPROACH FOX MASON.
160/18:57:00	68 15.9	-082 32.2	0464	042.3	009	056	31003	29170	1.8	0.3	-17.5	-40.8	
160/18:57:54	68 21.2	-082 19.5	0465	042.6	009	048	30987	29663	1.7	-0.1	-12.6	-40.2	HIGH LEVEL CIRRUS CLOUDS STRATUS IS 100 PERCENT.
160/18:58:00	68 21.7	-082 18.3	0465	042.4	010	053	30982	29709	1.8	-0.4	-12.1	-41.7	
160/18:59:00	68 27.3	-082 04.7	0465	042.6	009	065	30986	29729	1.7	0.4	-16.1	-40.3	
160/19:00:00	68 33.0	-081 50.0	0466	043.0	008	060	30992	29691	1.7	0.0	-16.4	-40.1	
160/19:01:00	68 38.8	-081 35.5	0466	043.2	010	066	30999	29672	1.6	-0.1	-19.5	-42.9	
160/19:02:00	68 44.4	-081 21.2	0468	044.1	011	095	30983	29722	1.8	-0.4	-13.4	-42.4	
160/19:02:36	68 48.?	-081 14.4	0472	022.6	009	103	31000	29785	1.6	-0.4	-12.4	-40.1	BOX MASON - 100 STRATUS CLOUDS.

YEAR 1984 AIDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
160/19:03:00	68 51.4-081	11.1	0474	016.8	010	115	31001	29787	1.7	-2.5	-9.6	-41.4	
160/19:03:02	68 51.6-081	10.9	0474	016.6	010	109	31000	29823	1.5	-2.3	-9.2	-42.0	CORRECTION: BOX MASON ON COMMENT MADE AT 18 56 05.
160/19:03:10	68 52.6-081	10.3	0474	016.0	011	105	30996	29795	1.7	-1.0	-8.4	-40.8	SOME PATCHES COMING UP.
160/19:03:20	68 53.9-081	09.4	0475	015.7	011	105	30989	29797	1.5	-0.3	-10.9	-41.0	OVER THE EDGE OF BOX MASON.
160/19:03:44	68 57.0-081	07.1	0475	015.9	011	100	30995	29796	1.6	0.5	-11.1	-41.9	ALONG WEST SIDE THERE IS A SMOKE POLYNYA CAN BE SEEN THRU THE CLOUDS.
160/19:03:56	68 58.4-081	06.1	0475	016.1	011	100	30993	29784	1.6	0.5	-12.1	-39.6	CAN NOT TELL IF IT IS NEW ICE.
160/19:04:00	68 58.9-081	05.6	0475	016.3	011	100	30994	29799	1.6	0.4	-12.5	-41.3	
160/19:04:24	69 01 9-081	03.4	0476	016.6	012	101	30992	29795	1.7	0.1	-14.8	-42.6	WIND HAS STRIPPED OUT THE ICE COVER.
160/19:04:58	69 04.2-081	00.0	0476	016.5	011	100	30994	29803	1.6	0.2	-15.3	-41.5	CAN SEE OPEN WATER ON AZIMUTH.
160/19:05:00	69 06.4-081	00.0	0476	016.6	010	099	30993	29783	1.7	0.2	-13.3	-42.3	
160/19:05:18	69 08.8-080	58.2	0476	016.7	011	100	30990	29775	1.7	-0.1	-10.9	-41.5	CORRECTION ESTD.
160/19:05:36	69 11.1-080	56.4	0477	016.8	013	107	30999	29791	1.6	0.1	-13.2	-41.9	CAN SEE EDGE OF POLYNYA TO THE LEFT OF THE AIRCRAFT 10 TO 15 MILES.
160/19:05:48	69 12.7-080	55.3	0477	016.9	013	107	31000	29794	1.6	-0.1	-10.9	-43.8	BREAK IN CLOUDS ALONG THE SMOKE LINE.
160/19:06:00	69 14.2-080	54.0	0477	017.1	015	108	30997	29781	1.6	0.2	-12.9	-40.7	
160/19:05:26	69 17.6-080	51.4	0477	017.6	016	101	30993	29791	1.5	0.5	-12.8	-41.6	FORWARD THRU STRATUS CAN SEE NEW POLYNYA 10 MILES FORWARD OF AIRCRAFT.
160/19:07:00	69 21.7-080	48.0	0475	017.6	016	105	30992	29792	1.6	-0.6	-12.8	-43.4	
160/19:07:20	69 24.3-080	46.1	0475	017.4	017	106	30987	29776	1.7	-0.1	-14.3	-42.4	STRATUS DECK IS THICKING AND CAN SEE FAIRLY WELL THRU IT.
160/19:07:48	69 28.1-080	43.1	0474	017.6	016	103	30991	29774	1.6	0.1	-10.1	-43.4	SMALL FLOES DRIFTING IN THE PATTERN.
160/19:07:54	69 28.7-080	42.5	0474	017.7	017	106	30992	29770	1.7	0.0	-14.7	-43.9	EDGE OF POLYNYA.
160/19:08:00	69 29.2-080	42.0	0473	017.7	017	112	30988	29769	1.7	-0.1	-14.3	-42.8	
160/19:08:24	69 32.6-080	39.5	0472	017.8	018	112	30984	29783	1.7	0.2	-13.0	-44.7	NORTH - ICE IS 100 PERCENT ICE COVERED - BOX MASON.
160/19:08:30	69 33.2-080	39.1	0472	017.8	018	109	30981	29780	1.8	0.2	-11.4	-42.9	CAMERAS ON 19 08 00.
160/19:09:29	00 00.0 000	00.0	0000	000.0	000	000	30988	29798	1.8	-0.3	-1.8	-45.0	
160/19:09:41	69 42.0-080	32.0	0467	017.9	019	104	30989	29775	1.8	0.2	-1.9	-41.5	50 PERCENT STRATUS - CLOUD.
160/19:09:51	69 43.4-080	30.7	0467	018.0	019	107	30979	29381	1.8	0.4	-3.2	-41.4	19 08 45 AIDAS DOWN - 19 09 28 AIDAS UP.
160/19:10:01	69 44.4-080	30.0	0466	018.1	019	104	30984	29790	1.8	0.0	-3.7	-42.4	
160/19:10:09	69 45.5-080	28.9	0465	018.2	019	107	30987	29784	1.8	0.2	-3.5	-43.1	AXN - NOT TAKING DATA AT THIS TIME.
160/19:11:01	69 52.0-080	23.8	0463	018.6	023	106	30990	29343	1.8	0.4	-3.5	-43.3	
160/19:11:11	69 53.1-080	22.9	0463	018.8	024	111	30986	29354	1.9	0.1	-4.2	-44.2	DAY - ARM OF BOX MASON IS 100 ICE CONCENTRATION.
160/19:11:17	69 53.9-080	22.3	0463	018.8	023	113	30983	29341	2.2	0.1	-5.4	-44.9	100 PERCENT.
160/19:11:59	69 59.1-080	17.8	0463	019.3	025	111	30992	29371	1.9	0.1	-11.0	-44.4	OVER TELESRA .
160/19:12:01	69 59.4-080	17.8	0463	019.3	026	112	30991	29343	1.9	-0.1	-10.7	-43.9	
160/19:12:59	70 06.6-080	11.6	0464	019.6	027	106	30993	29660	1.8	-0.3	-1.9	-43.2	19 13 00 CAMERAS OFF.
160/19:13:01	70 06.7-080	11.5	0464	019.8	029	110	30994	29655	1.8	0.1	-1.1	-43.3	
160/19:13:19	70 08.9-080	09.5	0464	019.6	029	102	30994	29533	1.8	0.3	1.0	-42.8	CORRECTION TELESRA.
160/19:14:01	70 14.2-080	05.0	0464	019.3	027	116	30980	29728	1.8	-0.1	-11.2	-42.3	
160/19:15:01	70 21.6-079	58.7	0466	020.2	032	120	30998	29749	1.9	0.1	-12.0	-45.1	
160/19:16:01	70 28.9-079	52.3	0465	019.7	025	112	31589	30305	3.8	0.3	-10.9	-45.1	
160/19:16:25	70 32.1-079	49.3	0459	019.9	025	112	32120	30922	3.7	0.0	-11.1	-44.3	CLOUD COVERAGE LEAVING - CLEAR PATCHES, 100 PERCENT ICE.
160/19:17:01	70 36.4-079	45.6	0455	019.7	025	112	32752	31580	3.5	-0.1	-12.2	-42.4	
160/19:18:01	70 43.5-079	39.0	0455	019.7	024	114	33493	32151	3.2	-0.4	-11.7	-43.5	
160/19:19:01	70 50.7-079	32.6	0460	019.6	026	128	33944	32617	2.3	0.1	-6.9	-43.0	
160/19:20:01	70 58.2-079	25.7	0465	019.5	023	112	34346	32728	2.9	-0.4	-2.1	-42.3	
160/19:20:57	71 05.3-079	19.3	0465	019.2	017	110	34034	33479	3.1	-0.5	-3.4	-42.6	CLOUD COVER IS DECREASING ABOUT 40 PERCENT STRATUS.
160/19:21:01	71 05.5-079	18.5	0465	019.2	017	114	34866	33535	3.0	-0.6	-5.3	-42.3	
160/19:22:01	71 13.0-079	11.8	0465	019.5	020	111	35278	33522	3.0	-0.0	-8.7	-43.9	
160/19:23:01	71 20.4-079	04.7	0461	019.8	022	099	35784	33458	3.1	-0.5	-3.6	-43.6	
160/19:24:01	71 27.5-078	57.9	0460	019.6	020	112	36187	33315	3.3	-0.2	-7.2	-42.6	
160/19:25:01	71 34.9-078	50.5	0460	019.7	018	114	36529	33541	3.4	-0.3	-8.2	-43.2	
160/19:26:01	71 42.2-078	43.2	0457	019.8	019	103	36899	33603	3.4	-0.1	-4.7	-42.2	
160/19:27:01	71 49.5-078	35.9	0462	019.7	017	111	36907	35837	2.8	-0.6	-1.1	-41.0	
160/19:28:01	71 56.8-078	28.6	0465	019.3	015	107	36837	36130	2.8	-0.3	-12.9	-43.9	
160/19:29:01	72 04.3-078	21.0	0465	020.4	021	102	36834	34418	2.7	0.4	-8.5	-43.3	
160/19:30:01	72 11.6-078	13.2	0463	020.6	021	115	36680	33543	2.9	0.2	-8.1	-44.2	
160/19:31:01	72 18.8-078	05.5	0461	020.5	020	115	36839	35739	2.9	-0.7	-8.7	-44.5	
160/19:32:01	72 26.3-077	57.3	0459	020.9	021	113	36839	35153	2.8	0.2	-17.2	-44.6	
160/19:33:01	72 33.4-077	49.7	0458	020.7	019	115	36870	35836	2.9	-0.4	-19.0	-46.1	
160/19:34:01	72 40.4-077	41.7	0457	020.3	017	110	36836	34783	2.9	-0.2	-29.7	-44.5	
160/19:34:15	72 42.2-077	39.7	0457	020.4	017	112	36835	34921	2.9	0.0	-27.0	-45.0	STATION 18 SHUT DOWN - BUSHING SHELL - HOLBEITS RACK.
160/19:34:37	72 44.8-077	36.9	0458	020.6	016	119	36879	35766	2.8	0.1	-26.4	-44.7	WINDOVER CANCELED.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
160/19:35:01	72 47.8-077	33.5	0458	020.6	017	119	36872	36195	3.0	-0.4	-25.6	-45.1	
160/19:36:01	72 55.1-077	25.4	0457	021.0	019	116	36895	35303	2.8	-0.2	-23.8	-45.9	
160/19:37:01	73 02.1-077	17.0	0457	020.9	017	119	36890	33170	2.9	-0.2	-20.2	-44.8	
160/19:37:59	73 09.0-077	03.8	0457	021.4	020	116	36899	35299	2.9	-0.5	-19.0	-44.8	@ 160 19.37.59 ADDAS TAPES SWITCHED, ECT
160/19:38:01	73 09.4-077	03.6	0457	021.3	020	119	36904	35337	2.8	-0.3	-19.2	-45.5	
160/19:39:01	73 16.6-077	00.1	0458	021.9	023	119	36883	35211	2.8	-0.2	-13.1	-45.8	
160/19:40:01	73 23.7-076	51.0	0457	027.5	025	115	36834	36266	2.9	6.6	-17.0	-47.9	
160/19:41:01	73 30.5-076	38.2	0457	033.5	025	131	36830	36283	2.9	-0.1	-11.6	-45.6	
160/19:42:01	73 37.0-076	24.8	0459	034.0	025	131	36826	36293	2.9	-0.6	-9.0	-48.5	
160/19:43:01	73 43.5-076	11.1	0462	033.2	021	139	36832	36255	2.9	-0.2	-5.8	-46.6	
160/19:44:01	73 50.3-075	57.0	0464	033.2	019	144	36839	36327	2.7	0.0	-5.4	-47.3	
160/19:45:01	73 56.7-075	42.7	0466	033.8	020	134	36505	36278	2.9	-0.3	-3.1	-47.8	
160/19:46:01	74 03.4-075	27.9	0468	033.7	018	136	36639	36287	2.5	-0.3	-3.3	-47.1	
160/19:46:41	74 07.6-075	18.2	0469	033.9	019	135	36896	36277	2.5	0.2	-3.4	-47.8	CAMERAS 19 42 30
160/19:46:51	74 08.9-075	15.6	0470	034.1	019	153	36885	36304	2.2	0.0	-3.4	-47.9	NUMEROUS MEDIUM AND SMALL FLOES 50 PERCENT CONCENTRATION.
160/19:47:01	74 10.1-075	12.8	0470	033.9	018	133	36890	36319	2.5	-0.8	-3.5	-48.2	MARK DATA RUN 19 45 10 - ADN.
160/19:48:01	74 16.6-074	58.0	0471	033.9	016	135	36886	36314	2.3	-0.4	-2.8	-45.4	
160/19:48:25	74 19.2-074	51.9	0471	033.8	015	132	36889	36313	2.3	-0.1	-3.3	-45.8	APPROACHING LARGE FLOES, 50 PERCENT ICE CONCENTRATION.
160/19:48:31	74 20.0-074	50.3	0471	034.0	016	132	36883	36336	2.5	-0.5	-3.0	-48.0	PHOTO IS C1.
160/19:49:01	74 23.2-074	42.5	0472	034.4	019	121	36901	36314	2.1	0.3	-3.1	-48.1	
160/19:49:07	74 24.1-074	40.8	0472	034.5	020	121	36901	36302	2.1	0.4	-3.0	-47.8	19 40 PASSED .
160/19:49:13	74 24.6-074	39.4	0472	034.7	020	123	35894	36280	2.2	0.4	-3.3	-48.7	HEAVILY RAFTED ICE - FLOES.
160/19:49:21	74 25.4-074	37.3	0472	034.8	021	116	36896	36274	2.2	-0.2	-3.9	-48.7	PASSED M/P 3' AT 19 40 CO.
160/19:50:01	74 29.9-074	26.7	0473	034.9	019	113	36839	36274	2.2	-0.9	-3.5	-49.2	
160/19:50:15	74 31.4-074	23.3	0474	034.8	020	119	36809	36171	0.3	-0.1	-3.5	-49.9	MONITOR DISPLAY WAS THE CAUSE OF BURNING SMELL.
160/19:50:29	74 33.0-074	19.6	0478	034.2	014	102	36479	35822	0.4	-0.7	-3.6	-51.5	LEAVING AREA OF LARGE FLOES AND BACK TO FRAGMENTED FLOES.
160/19:50:33	74 33.4-074	18.4	0478	034.0	016	100	36383	35739	0.4	-1.0	-3.7	-50.5	STARTED DESCEND.
160/19:51:01	74 36.7-074	10.9	0476	033.9	015	133	35713	35073	0.3	0.5	-3.8	-51.4	
160/19:51:27	74 39.5-074	04.0	0477	035.8	028	132	34960	34301	-0.7	0.7	-3.6	-54.7	ADN STARTED RUN AS WE PASSED THE ICE.
160/19:51:43	74 41.3-074	00.1	0477	035.9	025	135	34319	33656	-1.8	0.2	-3.5	-55.7	LARGE ICE FLOES, ICE CONCENTRATION 60 PERCENT.
160/19:52:01	74 43.1-073	55.1	0481	036.5	032	144	33436	32775	-2.7	0.1	-3.3	-55.4	
160/19:52:13	74 44.6-073	51.4	0486	036.9	034	146	32718	32067	-2.7	0.1	-3.3	-54.3	LARGE FLOES HEAVILY RAFTED ICE - MADE UP OF.
160/19:52:25	74 46.2-073	47.9	0491	036.7	029	146	32005	31337	-3.1	-0.5	-3.2	-53.9	LARGE FIRST YEAR ICE FLOES.
160/19:52:51	74 49.1-073	40.7	0493	036.5	030	138	30359	29750	-3.2	-0.1	-3.5	-50.5	1 METER TO 1 AND 1/2 THICK - FLOES.
160/19:53:01	74 50.2-073	37.9	0500	036.2	027	141	29743	29133	-3.2	0.2	-3.0	-47.4	
160/19:53:25	74 52.9-073	30.8	0501	035.9	027	142	28266	27685	-3.3	0.7	-2.8	-45.6	VERY LARGE ICE FLOES, 90 PERCENT ICE CONCENTRATION.
160/19:54:01	74 57.2-073	20.4	0498	036.0	026	150	26033	25450	-3.5	0.2	-6.6	-40.3	
160/19:54:15	74 58.7-073	16.3	0496	035.8	022	156	25164	24663	-3.4	-2.1	-4.9	-39.5	ADN - LOW THIN CLOUD LAYER ON RIGHT SIDE OF AIRCRAFT.
160/19:54:21	74 59.4-073	14.6	0496	034.3	023	135	24844	24341	-2.0	-26.4	-5.5	-37.9	STRATUS CLOUD.
160/19:55:01	75 04.6-073	10.0	0475	014.9	022	125	23340	22919	0.5	20.5	-2.7	-35.7	
160/19:55:07	75 05.5-073	08.8	0460	023.8	026	121	23173	22794	0.2	26.9	-2.8	-33.7	RUSE FLOW ON STARBOARD
160/19:55:13	75 06.0-073	07.6	0451	030.0	024	123	22922	22525	-2.0	27.0	-2.8	-33.2	RUSE FLOW ON STARBOARD SIDE.
160/19:55:27	75 07.5-073	04.0	0439	043.1	023	128	21949	21560	-3.5	12.5	-2.2	-29.9	LEAD RIGHT FULL OF ICE BUT OPEN WATER YET.
160/19:55:31	75 07.9-073	02.9	0438	045.1	024	123	21648	21285	-3.6	8.4	-2.1	-29.7	100 PERCENT ICE CONCENTRATION.
160/19:56:01	75 10.5-072	53.2	0440	045.3	018	123	18968	18593	-5.4	-3.7	-2.1	-25.9	
160/19:56:17	75 12.0-072	48.5	0442	041.6	013	114	17507	17151	-5.4	-6.1	-1.5	-22.4	THIN PATCHES OF LOW LEVEL STRATUS CLOUDS.
160/19:57:01	75 16.3-072	35.4	0439	036.6	013	091	13390	13093	-5.9	-0.3	-0.6	-16.6	
160/19:57:07	75 16.9-072	33.8	0437	036.2	012	078	12840	12562	-4.7	-0.3	-0.4	-15.7	LEFT LARGE ICE FLOES, IN AREA OF SMALL AND MEDIUM FLOES 60 PERCENT ICE CONCENTRA
160/19:58:01	75 21.9-072	19.8	0400	035.5	009	050	9197	8961	-4.1	0.3	-0.6	-6.1	
160/19:59:01	75 27.1-072	05.5	0337	036.9	007	057	6640	6554	-0.5	1.0	-0.4	-2.7	
160/19:59:19	75 28.4-072	01.6	0320	037.3	009	046	6054	6002	-0.3	-0.2	-0.4	-1.3	50 PER CENT ICE CONCENTRATION SMALL AND MEDIUM ICE FLOES.
160/19:59:59	75 31.1-071	53.3	0259	036.8	006	043	4744	4761	0.0	-0.3	0.0	2.9	LARGE FLOES INCIPIENT .
160/20:00:01	75 31.2-071	53.2	0259	036.6	007	044	4677	4687	0.2	-0.5	-0.2	0.3	
160/20:01:01	75 34.8-071	42.2	0263	036.2	003	027	2568	2617	-0.3	0.1	-0.3	1.7	
160/20:01:15	75 35.6-071	40.1	0260	036.1	003	027	2114	2185	-0.2	-1.3	0.0	1.0	GOOD VIEW OF SEA ICE.
160/20:02:01	75 38.2-071	32.1	0234	035.2	006	009	942	1028	3.5	-0.6	6.3	2.8	
160/20:02:11	75 38.7-071	31.1	0230	035.3	005	016	908	1000	3.0	-0.3	0.4	3.7	*** START OF RUN 1 TIME 20.02.10 LAT 7553.7 N LON 07151.1 W FL 09
160/20:02:55	75 40.9-071	24.3	0217	034.9	007	031	623	738	3.3	-0.7	0.0	2.4	OPEN WA
160/20:03:01	75 41.1-071	23.4	0215	034.9	003	008	537	701	3.3	-0.7	-0.1	1.1	
160/20:03:03	75 41.3-071	23.2	0215	034.8	009	003	578	689	3.4	-0.8	0.0	-0.2	OPEN WATER - HAS RIFFLES.

YEAR 1984 AIDAS FLIGHT LOG --- FLIGHT NO. 4 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
160/20:03:11	75 41.6-071	22.3	0213	034.6	C07	350	527	643	3.3	-0.8	-0.1	1.0	FRAGMENTED ICE.
160/20:04:01	75 43.9-071	15.5	0196	033.5	C06	336	426	552	5.4	-1.2	-0.2	-0.8	
160/20:04:37	75 45.6-071	11.0	0196	034.5	C05	350	443	567	5.4	-0.2	-0.4	1.1	MEDIUM SIZE FLOES, 50 PERCENT ICE CONCENTRATION, OPEN WATER.
160/20:04:47	75 46.1-071	09.6	0196	034.4	C05	342	444	569	5.2	-0.3	-0.1	-1.1	2 POINTS A SECOND - AIR.
160/20:04:55	75 46.4-071	08.4	0196	034.3	C05	350	446	571	5.3	-0.1	-0.2	-1.3	INCIPIENT MELT ON LARGE FLOES.
160/20:05:01	75 46.6-071	07.5	0196	034.3	C05	350	448	573	5.2	0.0	-0.2	0.5	
160/20:05:23	75 47.7-071	04.9	0196	034.4	C05	342	448	576	5.3	-0.2	-0.1	0.5	BIG FLOE.
160/20:05:31	75 48.0-071	04.1	0196	034.5	C05	342	448	574	5.2	0.2	0.5	1.8	OPEN WATER.
160/20:06:01	75 49.2-070	59.6	0195	034.9	C04	350	448	574	5.3	-0.3	0.3	3.4	
160/20:06:35	75 50.7-070	55.7	0197	036.4	C03	339	451	579	5.4	0.1	-0.3	1.4	LARGE FLOE.
160/20:06:47	75 51.2-070	53.8	0199	036.5	C03	339	453	575	5.3	-0.5	-0.4	2.2	OPEN WATER.
160/20:07:01	75 51.8-070	52.0	0202	036.1	C03	350	458	579	4.9	-0.4	0.1	2.9	
160/20:07:07	75 52.3-070	50.9	0203	036.1	C03	339	462	581	4.9	-0.3	0.2	3.3	NO CLOUDS.
160/20:07:11	75 52.6 070	50.6	0204	036.0	C04	319	462	579	5.0	-0.3	-0.1	3.3	CASE.
160/20:07:41	75 53.8-070	46.3	0209	035.5	C05	350	469	537	4.5	-0.4	0.0	1.1	OPEN WATER, CAN SEE THE WAVES.
160/20:07:53	75 54.3-070	44.6	0210	035.5	C05	342	456	579	4.5	0.0	0.0	1.2	UNDISTURBED FLOE.
160/20:08:01	75 54.6-070	43.4	0207	035.6	C06	344	451	575	4.6	-0.2	-0.1	0.7	
160/20:09:01	75 57.3-070	35.3	0189	035.9	C06	317	437	559	6.0	-0.5	-0.3	4.9	LARGE FLOE.
160/20:09:35	75 58.6-070	30.8	0192	035.5	C05	317	451	577	5.8	-0.6	-0.9	3.7	HUGE FLOE.
160/20:10:01	75 59.8-070	27.5	0195	035.1	C05	317	457	585	5.7	-0.5	-0.2	2.1	
160/20:10:27	76 00.9-070	23.8	0197	035.4	C07	329	461	577	5.2	-0.8	-0.3	2.0	HUGE SIZE FLOES.
160/20:10:51	76 02.0-070	20.5	0200	035.3	C06	324	465	584	5.0	-0.2	-0.1	1.9	AIR - SAMPLE ALVIT OVER WATER CS. OVER ICE .7 FLES.
160/20:10:53	76 02.1-070	20.3	0200	035.3	C06	324	459	583	5.0	1.8	-0.2	1.5	ALVITO.
160/20:10:59	76 02.3-070	19.7	0201	036.0	C05	327	459	583	5.2	6.3	0.0	3.1	LARGE FLOE .
160/20:11:01	76 02.5-070	18.9	0201	037.4	025	351	463	582	5.1	11.1	-0.3	2.4	
160/20:11:07	76 02.7-070	18.3	0202	040.3	C09	338	455	577	5.1	0.2	0.0	2.1	UNDISTURBED FLOE.
160/20:12:01	76 05.0-070	09.7	0205	040.4	C06	337	458	576	4.7	-0.4	0.1	1.8	
160/20:12:11	76 05.4-070	08.4	0207	040.6	C05	328	494	597	6.2	-0.6	0.3	3.3	III END OF RUN 1 TIME 20.12.10 LAT 76CS.4 N LON 070C8.6 W FL C4
160/20:13:01	76 08.0-070	05.5	0219	347.6	C05	164	1274	1345	6.6	-2.7	0.0	5.5	
160/20:14:01	76 11.6-070	10.8	0223	342.9	C07	154	2204	2272	6.5	0.9	-0.1	1.2	
160/20:14:39	76 13.9-07	3.5	0236	34../	C06	144	2409	2486	3.9	0.1	0.2	3.0	WATER OPEN AU THIN ICE.
160/20:15:01	76 15.2-0	5.0	0239	343.8	C03	155	2405	2469	3.0	-4.2	0.5	3.2	
160/20:16:01	76 19.1-070	20.0	0246	343.9	C07	149	2355	2459	3.5	-0.4	0.2	3.4	
160/20:17:01	76 23.3-070	25.3	0249	343.2	C07	154	2325	2454	3.3	-0.8	-0.6	2.8	
160/20:18:01	76 27.0-070	30.2	0234	348.8	C07	149	2356	2435	4.4	1.1	-0.2	4.0	
160/20:19:01	76 30.6-070	31.4	0213	032.5	C13	134	2383	2479	5.8	29.1	0.2	2.5	
160/20:20:01	76 30.8-070	19.0	0186	110.3	C09	138	2347	2447	6.2	0.1	-0.6	3.8	
160/20:21:01	76 30.6-070	06.4	0169	035.5	C03	126	2346	2454	6.9	-1.7	14.0	4.6	
160/20:21:29	76 30.6-070	01.1	0167	034.8	C04	140	2367	2465	7.1	0.2	13.8	5.4	SHOREFAST ICE.
160/20:22:01	76 30.8-069	54.5	0164	034.1	033	126	2330	2438	5.7	-0.3	13.7	4.1	
160/20:23:01	76 31.2-069	42.8	0165	033.4	C02	C31	2373	2464	5.4	0.1	13.6	4.3	
160/20:24:01	76 31.4-069	31.4	0161	033.0	C01	126	2376	2473	4.4	0.6	13.5	4.4	
160/20:25:01	76 31.9-069	20.0	0156	033.8	C02	103	1650	1959	2.6	0.8	13.7	4.4	
160/20:26:01	76 32.1-069	09.3	0153	032.6	C03	340	1165	1275	2.3	0.2	13.9	6.1	
160/20:27:01	76 32.5-068	58.7	0151	033.7	C02	262	350	494	2.4	-0.2	13.7	4.8	

3.2 First data flight—day 161—Thule to Evenes.

All instruments were operational except the Georgia Tech 94 GHz imager, which could not be accessed because of the heavy cargo load for this transit flight.

Pattern 'A' was executed going from west to east. Polarqueen was estimated to lie between tracks three & four of the mosaic pattern, about 60 Km from the southern edge. The real-time ESMR images indicated that the ice was near or above the melt point over the entire MIZEX area.

The decision to fly on a SMMR-off day was made so as not to impact the rest of the aircraft schedule.

Our attempt to acquire the RAL corner reflectors on Lofoten (for calibrating the RAL altimeter) was foiled by the accumulated error on the INS, and the weak reception on the Loran-C.

Figure 3. Flight tracks: Thule/Evenes 6/9

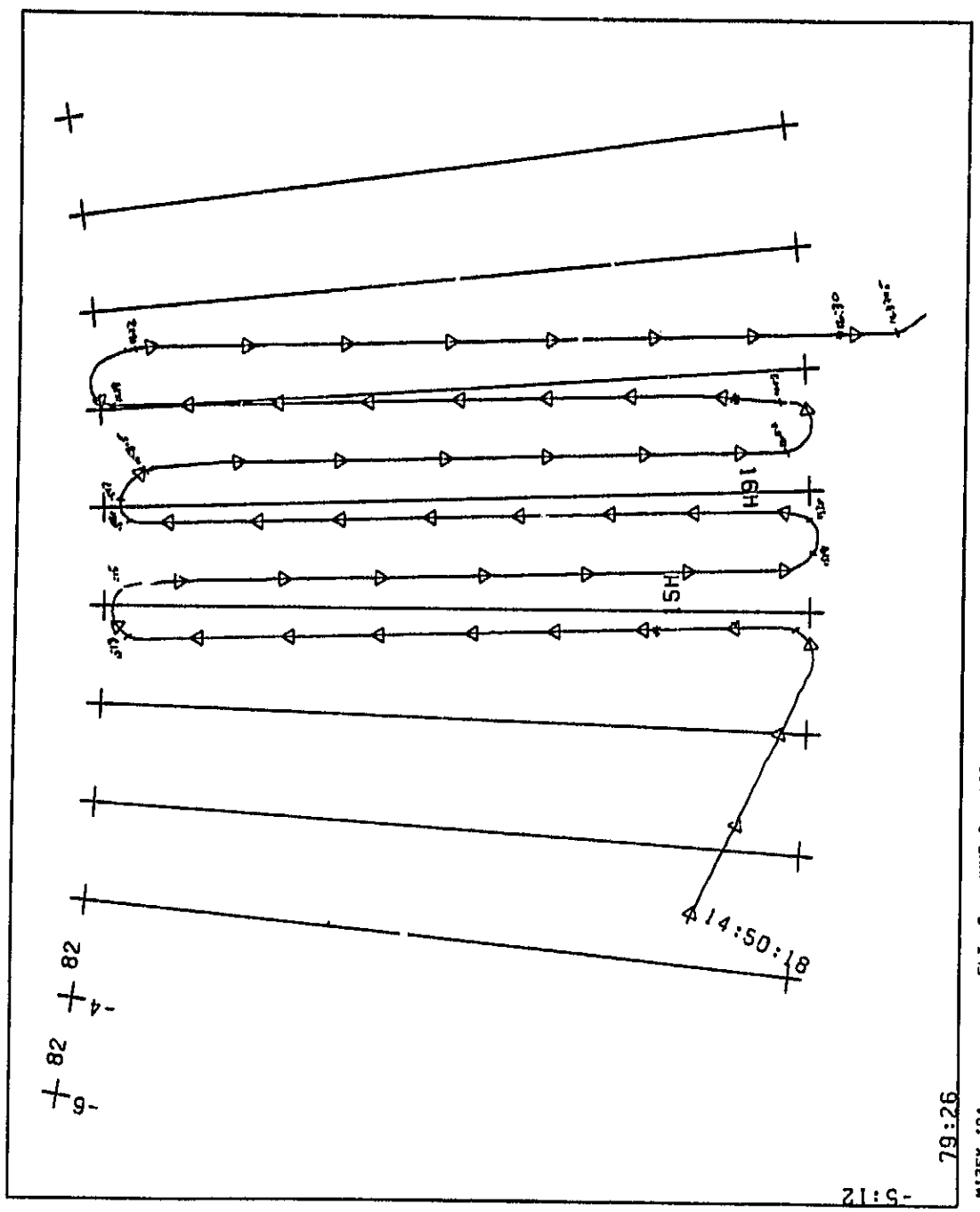


Figure 4. Mosaic pattern: 6/9

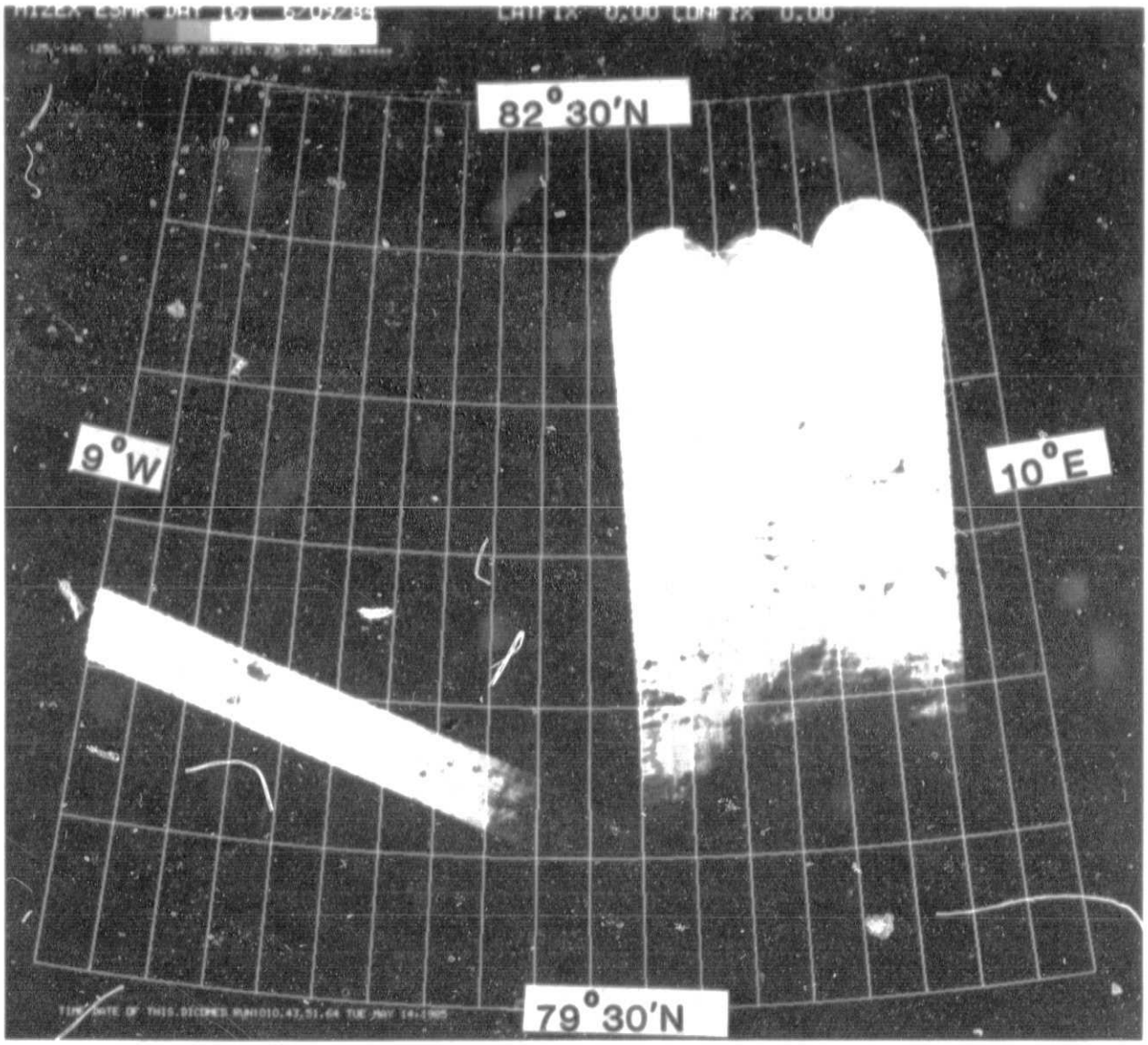


Figure 5. ESMR mosaic: 6/9

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
161/12:50:11	00	00.0 000	00.0	0000	000.0	000	000	48	333	0.7	-0.8	34.7	14.1	
161/12:51:00	76	31.9-068	43.9	0008	108.8	109	110	58	336	0.8	-0.3	32.1	13.3	
161/12:52:00	76	31.9-068	43.4	0012	072.1	104	071	62	333	-0.9	0.1	27.7	4.6	
161/12:53:00	76	31.9-068	42.5	0015	100.8	103	100	65	334	0.2	-0.9	23.7	0.9	
161/12:54:00	76	31.9-068	41.0	0016	085.3	101	085	94	337	0.7	-0.4	20.2	0.2	
161/12:55:00	76	31.9-068	39.8	0018	086.5	099	086	88	336	0.3	-1.6	17.2	-0.2	
161/12:56:00	76	31.9-068	39.1	0000	128.4	119	128	99	335	0.5	-1.9	14.6	[illegible]	
161/12:57:00	76	31.9-068	38.9	0006	150.5	109	149	114	335	0.8	-1.3	12.2	4.0	
161/12:58:00	76	31.9-068	39.3	0067	265.1	052	265	132	334	-0.6	-0.1	10.6	0.2	
161/12:59:00	76	31.6-068	40.0	0188	268.9	003	053	991	336	8.6	-1.4	10.0	1.5	
161/13:00:00	76	31.4-069	06.4	0254	267.5	002	116	2299	336	8.3	0.0	11.0	1.9	
161/13:01:00	76	33.2-069	22.5	0296	345.8	015	124	4194	334	6.5	26.0	11.3	-1.2	
161/13:01:26	76	35.4-069	21.2	0308	032.8	013	112	4961	4921	6.4	25.4	0.1	-2.4	TAKE OFF TIME 12 58 23
161/13:01:32	76	35.7-069	20.2	0308	039.9	011	112	5165	5117	6.7	12.4	-0.7	-1.1	JULIAN DAY 161
161/13:01:36	76	36.0-069	19.7	0309	042.9	008	116	5318	5269	6.4	2.4	-1.5	-2.2	JUNE 9, 1984
161/13:01:40	76	36.3-069	18.6	0310	043.2	008	088	5465	5409	6.2	1.9	-1.3	-1.7	FLIGHT 5
161/13:01:48	76	36.8-069	16.3	0313	044.3	007	086	5750	5731	6.5	2.5	-0.5	-2.1	THULE/EVERES, NORWAY.
161/13:01:54	76	37.1-069	15.0	0314	045.0	007	086	5995	5956	6.6	1.5	-0.5	-2.4	13 CD 19 NADIR 1 OPEN.
161/13:02:00	76	37.5-069	13.1	0316	045.8	006	091	6248	6194	6.6	1.5	-0.6	-2.5	
161/13:02:20	76	38.8-069	07.5	0319	046.6	006	071	7040	6977	6.5	0.6	-0.2	-1.6	TOM - 37 CHANNEL RUNS UP BEFORE T/P - SEEMS TO BE IN COLD MODE.
161/13:02:28	76	39.3-069	05.9	0320	046.6	007	061	7337	7281	6.4	0.1	-0.2	-2.9	37 CAME UP AFTER TAKEOFF.
161/13:02:46	76	40.2-069	00.6	0323	047.2	007	092	8022	7959	6.4	0.1	-0.1	-4.5	HIGH CIRRUS CLOUDS,PRESSURE, OVER GREENLAND GOOD CONDITIONS FOR MIZEX AREA.
161/13:03:00	76	41.3-068	56.5	0326	047.1	005	098	8539	7596	6.2	-0.2	16.8	-5.2	
161/13:03:20	76	42.4-068	50.6	0328	047.1	006	091	9259	7849	6.3	0.1	4.1	-5.5	JOE - GOING TO POWER UP HIS SYSTEM - COULD BE CONNECTOR AND OR TEMPERATURE.
161/13:03:28	76	43.0-068	49.0	0329	047.0	006	079	9538	8222	6.3	0.0	0.4	-8.4	PROBLEM. 12 55 00.
161/13:03:46	76	44.2-068	43.9	0331	048.4	007	093	10189	8904	6.1	1.6	0.0	-9.3	W/P 1 78-14.4 60-18.4 L/O PT
161/13:03:56	76	44.8-068	40.7	0333	049.2	006	092	10542	9600	6.3	-0.1	0.3	-9.0	W/P 2 80-44.6 30-54.1W
161/13:04:00	76	45.0-068	39.5	0334	049.1	006	079	10683	9747	6.3	-0.3	1.2	-9.3	
161/13:04:04	76	45.2-068	38.3	0334	048.9	006	084	10829	9864	6.3	-0.7	4.6	-10.0	W/P 3 80-00 3-00E
161/13:04:14	76	45.8-068	35.0	0335	048.9	006	084	11205	9909	6.2	-1.1	0.1	-11.6	W/P 4 80-04.7 3-43.9E
161/13:04:24	76	46.4-068	32.0	0337	049.0	009	094	11578	10097	6.1	-1.1	-0.3	-11.6	W/P 5 82-04.6 3-14.9E
161/13:04:38	76	47.3-068	28.1	0338	048.7	009	098	12093	9807	6.3	-0.8	-0.6	-11.5	W/P 6 82-04.9 4-22.4E
161/13:04:52	76	48.3-068	23.6	0339	048.6	010	098	12604	10129	6.2	-1.4	-1.5	-11.5	W/P 7 80-04.9 4-41.9E
161/13:05:00	76	48.6-068	21.1	0340	047.9	008	108	12888	10563	6.3	-2.0	-1.3	-13.2	W/P 8 80-05 5-40E
161/13:05:10	76	49.3-068	18.2	0340	047.0	010	094	13232	10651	6.4	-0.8	-1.2	-13.1	W/P 1' 82-05 5-40E
161/13:05:20	76	50.2-068	14.9	0341	046.6	007	104	13582	10471	6.2	0.0	-2.5	-14.9	W/P 2' 82-04.9 6-52.6E
161/13:05:30	76	50.6-068	12.3	0341	046.7	008	097	13920	10531	6.1	1.1	-2.8	-14.4	W/P 3' 80-04.9 6-38.1E
161/13:05:58	76	52.6-068	03.8	0342	047.3	006	092	14833	11017	5.9	0.3	-3.6	-16.3	W/P 4' 80-04.7 7-36.1E
161/13:06:00	76	52.7-068	03.0	0342	047.3	007	087	14894	11068	5.8	0.2	-3.7	-15.8	
161/13:06:12	76	53.3-068	09.3	0343	047.5	007	077	15249	11348	5.6	0.3	-4.0	-18.7	W/P 5' 82-04.6 8-05.7E
161/13:06:24	76	54.1-067	56.4	0345	047.8	006	092	15573	11615	5.6	0.0	-4.3	-17.6	W/P 6' 82-04.1 9-17.5E
161/13:06:34	76	55.0-067	52.7	0347	047.9	006	105	15848	11802	6.2	0.1	-4.7	-19.4	W/P 7' 80-04.3 8-34.1E
161/13:06:54	76	56.3-067	46.9	0351	048.1	005	099	16341	12155	5.1	-0.2	-5.0	-19.6	W/P 8' 74-20 19-15E BEAR ISLAND
161/13:07:00	76	56.6-067	45.1	0352	048.0	005	107	16474	12250	4.7	-0.1	-5.1	-20.5	
161/13:07:08	76	57.2-067	42.3	0356	048.0	004	117	16628	12401	4.6	0.1	-5.3	-20.0	W/P 1" 71-15 16-45E IP
161/13:07:20	76	57.8-067	38.6	0359	047.9	006	080	16869	12707	4.8	0.1	-5.3	-20.5	W/P 2" 69-17 16-00E
161/13:07:34	76	58.8-067	33.6	0363	047.7	007	070	17183	13203	4.8	-0.3	-3.7	-22.8	W/P 3" 69-06 15-56E
161/13:07:48	76	59.9-067	28.7	0366	047.5	007	054	17509	13803	4.8	0.1	-4.2	-23.0	W/P 9 69-29.5 16-40.7E.
161/13:08:00	77	00.7-067	24.7	0369	047.4	005	032	17779	14370	4.7	0.0	-3.1	-20.2	
161/13:08:42	77	03.6-067	10.8	0377	047.7	004	040	18738	16072	4.5	0.0	1.5	-23.9	EXCELLENT VISIBILITY.
161/13:09:00	77	04.8-067	04.3	0381	047.7	004	028	19129	16228	4.5	0.1	2.5	-25.3	
161/13:09:10	77	05.6-067	01.3	0382	047.7	006	028	19349	16026	4.5	0.0	4.8	-26.2	FLYING OVER BARE ROCKS AND SNOW.
161/13:09:46	77	08.0-066	48.5	0388	048.2	007	047	20163	19950	4.3	0.1	-0.6	-28.3	LAVA OUTFLOW FLYING OVER.
161/13:10:00	77	09.1-066	43.4	0390	048.2	006	036	20477	19223	4.4	0.0	14.4	-28.6	
161/13:11:00	77	13.5-066	21.7	0396	048.3	006	017	21838	19342	4.6	0.0	9.0	-30.1	
161/13:12:00	77	17.8-065	58.1	0399	048.7	008	011	23208	21277	3.6	-0.2	1.1	-32.8	
161/13:12:26	77	19.7-065	48.8	0407	049.0	008	037	23555	20885	3.6	-0.1	4.9	-34.0	GLACIER - NO SURFACE MELTING YET.
161/13:12:56	77	21.9-065	36.7	0413	048.9	008	020	24010	21507	3.6	-0.3	2.9	-35.3	STILL SKIRTING THE ICE EDGE.
161/13:13:00	77	22.1-065	35.3	0414	048.8	008	020	24074	21560	3.6	-0.2	2.8	-36.5	
161/13:13:44	77	25.4-065	16.9	0422	049.1	010	019	24757	22214	3.2	-0.1	7.0	-38.2	SOME HAZE COMING IN NOW.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
161/13:14:00	77	26.6-065	11.1	0426	049.2	010	023	24959	22942	3.3	-0.2	8.2	-37.7	
161/13:14:10	77	27.4-065	06.7	0427	049.2	010	023	25105	22792	3.3	-0.3	-0.8	-38.2	SOME SURFACE HAZE AS WE GO OVER THE ICE SHEET.
161/13:14:48	77	30.4-064	50.5	0432	049.8	012	038	25720	22945	3.2	0.0	-2.3	-40.7	FLYING OVER MELT PONDS.
161/13:14:58	77	31.2-064	46.4	0433	050.2	013	044	25888	22833	3.3	-0.1	-3.6	-39.9	LOWER ELEVATION OF THE ICE SHEETS.
161/13:15:00	77	31.3-064	45.4	0433	050.1	014	045	25926	22813	3.2	-0.1	-3.4	-38.1	
161/13:16:00	77	35.9-064	19.7	0439	050.8	014	053	26864	22658	3.1	-0.1	-5.4	-42.4	
161/13:17:00	77	40.3-063	55.4	0439	051.5	017	058	27913	22919	3.6	0.2	-6.5	-46.1	
161/13:18:00	77	45.1-063	25.9	0442	051.7	017	055	28301	23256	3.2	-0.3	-7.7	-47.7	
161/13:19:00	77	49.7-062	59.3	0443	052.6	021	064	29625	23613	3.0	0.3	-7.6	-48.6	
161/13:20:00	77	54.0-062	31.8	0441	052.7	025	054	30544	24191	3.7	0.0	-7.9	-50.6	
161/13:21:00	77	58.5-062	03.8	0432	052.7	028	049	31640	25067	3.4	0.1	-8.6	-54.0	
161/13:21:24	78	00.2-061	52.6	0430	053.2	029	054	31987	25362	3.6	-0.5	-8.6	-54.2	18 HORIZONTAL IS AT ITS COLDEST - TOM.
161/13:22:00	78	02.7-061	36.3	0428	053.5	025	055	32418	25751	3.5	-0.5	-8.8	-53.0	
161/13:23:00	78	06.9-061	09.0	0428	053.8	018	054	32979	26341	2.7	0.2	-8.6	-55.1	
161/13:24:00	78	11.1-060	40.2	0440	054.0	023	048	32998	26343	2.4	-0.5	-8.5	-55.3	
161/13:25:00	78	15.5-060	11.1	0445	052.0	028	043	32973	26336	2.4	-1.4	-8.8	-56.4	
161/13:26:00	78	19.9-059	42.7	0441	051.3	032	045	32982	26370	2.4	-0.1	-8.4	-54.5	
161/13:27:00	78	24.6-059	13.6	0437	051.6	030	045	32956	26344	2.4	0.1	-8.6	-55.2	
161/13:28:00	78	29.1-058	45.7	0433	052.2	031	046	32945	26384	2.6	0.0	-9.0	-56.8	
161/13:29:00	78	33.3-058	17.0	0430	052.5	032	045	32965	26395	2.5	0.0	-9.1	-56.8	
161/13:30:00	78	37.6-057	47.9	0428	052.8	033	045	32957	26385	2.6	0.2	-9.3	-55.6	
161/13:31:00	78	41.8-057	18.8	0426	053.1	033	043	32948	26336	2.8	-0.2	-9.5	-55.7	
161/13:32:00	78	45.8-056	49.8	0425	053.4	033	038	32965	26328	2.7	-0.2	-9.6	-57.2	
161/13:33:00	78	49.9-056	19.9	0424	053.2	038	035	32955	26293	2.5	-0.1	-9.5	-55.9	
161/13:34:00	78	54.0-055	50.4	0423	053.8	038	036	32969	26319	2.6	-0.1	-9.4	-57.1	
161/13:35:00	78	57.9-055	20.6	0422	054.4	036	034	32956	26262	2.7	-0.3	-9.3	-57.0	
161/13:36:00	79	01.9-054	49.5	0422	054.6	037	030	32970	26251	2.6	-0.1	-9.4	-56.9	
161/13:37:00	79	05.7-054	18.8	0423	054.7	037	031	32955	26243	2.7	-0.2	-9.4	-58.5	
161/13:38:00	79	09.5-053	47.8	0424	054.9	039	029	32954	26229	2.4	-0.2	-9.7	-56.2	
161/13:39:00	79	13.4-053	15.6	0424	055.2	039	023	32964	26210	2.7	-0.6	-9.6	-57.7	
161/13:40:00	79	17.0-052	43.5	0426	055.8	040	025	32964	26171	2.7	-0.5	-9.6	-57.2	
161/13:41:00	79	20.6-052	10.9	0426	055.9	041	022	32960	26156	2.5	-0.2	-9.7	-57.1	
161/13:42:00	79	24.4-051	37.5	0427	056.4	040	020	32962	17776	2.6	-0.2	-9.8	-57.7	
161/13:43:00	79	27.9-051	04.7	0427	056.6	043	020	32971	26087	2.4	0.0	-10.0	-55.9	
161/13:44:00	79	31.3-050	30.9	0428	057.0	044	020	32955	25944	2.4	0.0	-10.4	-57.4	
161/13:45:00	79	34.8-049	56.8	0428	057.5	044	019	32971	25849	2.4	-0.4	-10.9	-56.9	
161/13:46:00	79	38.2-049	21.8	0429	057.9	044	016	32952	25736	2.5	-0.1	-11.1	-57.4	
161/13:47:00	79	41.5-048	47.6	0429	058.1	044	015	32966	25699	2.4	0.2	-10.9	-57.5	
161/13:48:00	79	45.0-048	10.8	0431	058.6	048	014	32955	25660	2.3	-0.4	-10.8	-57.2	
161/13:48:46	79	47.3-047	43.9	0431	058.9	047	013	32948	25621	2.4	0.0	-10.9	-56.8	LORAN C - ON THE NORWEIGEN SEA GRI 7970, PICKING UP OVER GREENLAND.
161/13:48:56	79	47.9-047	37.5	0431	058.9	047	014	32966	25612	2.4	-0.2	-10.6	-58.0	PICKING UP 4 OUT OF 5 STATIONS.
161/13:49:00	79	48.0-047	34.9	0431	059.0	047	014	32969	25648	2.3	-0.1	-10.8	-57.7	
161/13:50:00	79	51.2-046	59.5	0432	059.6	049	013	32964	25648	2.4	-1.5	-10.9	-56.3	
161/13:51:00	79	54.3-046	22.0	0433	060.2	047	015	32965	25572	2.4	-0.1	-10.9	-56.5	
161/13:52:00	79	57.4-045	45.0	0434	061.0	044	012	32961	25524	2.4	0.1	-10.9	-56.6	
161/13:53:00	80	00.4-045	07.0	0435	061.5	042	010	32951	25498	2.5	-0.3	-11.0	-56.9	
161/13:54:00	80	03.4-044	28.5	0437	062.5	039	011	32961	25491	2.4	-0.4	-10.8	-56.7	
161/13:55:00	80	06.2-043	49.8	0438	063.5	037	012	32965	25485	2.4	-0.7	-11.2	-55.2	
161/13:56:00	80	08.9-043	11.3	0439	063.9	035	009	32955	25446	2.7	0.1	-11.0	-55.4	
161/13:56:52	80	11.3-042	36.9	0439	064.2	036	009	32964	25431	2.4	0.0	-10.9	-56.7	OVER ICE SHEET THERE IS THIN SURFACE HAZE.
161/13:57:00	80	11.7-042	31.2	0440	064.3	036	009	32961	25447	2.5	0.1	-10.7	-52.7	
161/13:57:48	80	13.7-041	59.4	0441	065.1	036	005	32943	25424	2.6	-0.1	-10.5	-53.1	MOUNTAINS ON THE COAST OF GREENLAND.
161/13:58:00	80	14.3-041	51.1	0441	065.3	036	009	32965	25444	2.4	0.1	-10.4	-54.0	
161/13:59:00	80	16.9-041	10.8	0442	066.2	033	006	32957	25455	2.6	0.1	-10.1	-53.9	
161/13:59:36	80	18.4-040	45.9	0443	066.8	032	007	32960	25501	2.4	0.3	-9.9	-55.5	HORIZONTAL VISIBILITY - EAST COAST OF GREENLAND.
161/14:00:00	80	19.3-040	28.9	0443	066.8	031	002	32959	25520	2.6	-0.9	-10.2	-54.0	
161/14:01:00	80	21.7-039	48.3	0445	067.6	030	004	32959	25607	2.5	0.0	-9.8	-54.1	
161/14:02:00	80	24.1-039	06.4	0446	068.8	026	007	32972	25696	2.5	-0.2	-9.5	-53.5	
161/14:02:16	80	24.7-038	55.2	0446	068.9	027	007	32966	25742	2.5	-0.4	-9.5	-53.9	STRATUS PATCH'S ON THE ICE SHEET ABOUT 40 PERCENT COVERAGE.
161/14:03:00	80	26.5-038	23.3	0447	069.6	027	010	32948	25809	2.5	-0.1	-9.2	-53.4	

YEAR 1994 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- NIZEX

----TIME----	--LAT--	--LONG--	GRD TRUE SPD HEAD	-WIND-- SPD DIR	-ALTITUDE-- PRES RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
161/14:04:00	80	28.7-037	41.0 0447	070.4	027 012 32961 25971	2.3	-0.2	-9.1	-52.3	
161/14:04:30	80	30.7-036	57.8 0449	071.0	025 001 32940 26035	2.5	0.4	-9.0	-52.8	
161/14:05:00	80	32.8-036	13.5 0449	071.8	025 004 32948 26433	2.6	0.3	-8.8	-54.2	
161/14:05:30	80	34.7-035	29.5 0450	072.3	026 009 32953 26460	2.8	-0.4	-8.4	-54.2	
161/14:06:00	80	35.3-035	15.4 0451	072.5	026 009 32953 26460	2.8	-0.4	-8.5	-54.7	NO CAMERA ON THE LEFT BEING USED.
161/14:06:30	80	36.4-034	46.2 0451	072.9	026 001 32953 26584	2.5	0.0	-8.3	-51.5	APPROACH THE MOUNTAINS THE VISIBILITY IS EXCELLENT STILL STRATUS ABOUT 40 PERCEN
161/14:07:00	80	36.9-034	35.4 0451	073.1	026 003 32953 26634	2.6	-0.4	-8.1	-53.9	
161/14:08:14	80	38.3-033	59.9 0452	073.8	025 005 32963 26745	2.6	0.1	-7.9	-53.5	ANN - STARTING MAKE DATA RUN.
161/14:09:00	80	39.7-033	15.5 0455	074.8	024 355 32953 26967	2.5	0.2	-7.6	-52.9	
161/14:10:00	80	41.1-032	36.3 0456	075.2	024 351 32967 27000	2.4	0.0	-7.4	-55.5	SIGNALS FROM NTZ.
161/14:10:52	80	41.5-032	30.5 0457	075.3	024 354 32949 26589	2.5	0.0	-7.3	-52.4	
161/14:11:00	80	42.3-032	02.9 0458	076.0	023 354 32964 27070	2.3	-0.1	-7.3	-54.0	NOT ENOUGH SIGNAL STRENGTH FOR LORAN C TO WORK ACCURATELY.
161/14:11:36	80	42.7-031	53.2 0458	076.1	023 352 32948 27073	2.4	-0.0	-7.1	-53.2	HAS WORKING WELL ABOUT 20 MINUTES AGO.
161/14:11:48	80	43.0-031	43.2 0458	076.4	023 354 32969 27073	2.5	-0.2	-7.1	-52.7	
161/14:12:00	80	43.1-031	40.5 0459	076.4	022 354 32966 27077	2.4	-0.5	-7.1	-53.5	MOUNTAINS THE SURFACE IS CLEAR - NO SURFACE CLOUDS.
161/14:12:04	80	43.1-031	40.5 0459	076.4	022 354 32966 27077	2.4	-0.5	-7.1	-53.5	
161/14:13:00	80	44.5-030	57.2 0459	074.6	023 350 32972 27193	2.3	-1.2	-6.9	-52.8	
161/14:14:00	80	45.9-030	10.9 0461	077.0	023 353 32964 27422	2.3	-0.4	-6.6	-54.2	
161/14:15:00	80	47.0-029	23.0 0463	079.0	024 352 32956 27682	2.3	0.3	-5.7	-53.9	
161/14:16:00	80	48.0-028	35.7 0464	079.9	024 351 32958 28464	2.3	0.1	-4.2	-54.3	
161/14:16:04	80	48.0-028	32.9 0464	080.0	023 350 32963 28552	2.3	-0.3	-4.2	-53.7	W/P 2.
161/14:17:00	80	49.0-027	48.5 0466	080.7	022 340 32962 29017	2.3	-0.3	-2.3	-54.6	
161/14:17:56	80	49.8-027	01.6 0468	081.6	022 345 32960 30417	2.4	0.2	9.0	-55.0	OVER SMALL GLACIER, LAND.
161/14:18:00	80	49.8-026	58.7 0468	081.7	023 345 32960 30545	2.3	0.2	10.8	-52.7	
161/14:18:10	80	49.9-026	51.9 0468	081.9	023 344 32961 30764	2.3	-0.2	11.2	-52.3	GOOD VISIBILITY - CLEAR VIEW OF GREENLAND.
161/14:18:16	80	50.0-026	45.5 0468	082.0	023 346 32964 30823	2.3	-0.2	9.9	-53.7	ALL GLACIERS ARE RETREATING.
161/14:18:30	80	50.2-026	33.7 0469	082.1	023 347 32965 32101	2.2	-0.4	6.3	-54.4	LOT OF GLACER MORAINES.
161/14:19:00	80	50.5-026	10.9 0469	082.3	024 343 32961 29325	2.2	-0.1	2.5	-53.8	
161/14:19:00	80	51.1-025	23.4 0470	083.1	025 349 32954 30533	2.2	-0.2	2.3	-53.1	
161/14:20:00	80	51.4-024	31.9 0471	083.7	025 348 32960 29224	2.3	0.2	-0.8	-54.1	
161/14:21:00	80	51.7-024	28.0 0471	083.8	025 348 32963 29369	2.2	0.0	0.6	-53.9	FLUK DIVERSION .5 MILLIWATTS 33,000FT. - ANN.
161/14:22:00	80	52.0-023	43.7 0472	084.5	025 344 32944 30679	2.3	-0.2	0.5	-53.5	
161/14:22:18	80	52.0-023	43.9 0472	084.8	024 346 32958 31870	2.3	-0.3	-2.2	-53.7	OVER FIRST FJORD.
161/14:22:24	80	52.1-023	24.3 0472	084.9	025 349 32960 33337	2.2	-0.2	-1.6	-52.9	FROZEN FIRST YEAR SEA ICE.
161/14:23:00	80	52.3-022	55.1 0472	085.1	026 346 32956 31844	2.1	-0.2	-1.5	-52.5	
161/14:23:42	80	52.3-022	18.9 0473	085.9	026 353 32968 30427	2.1	-0.2	-1.7	-53.0	3 GLACIERS THAT SURGED - VERY SMOOTH, VERY VAST THEN STOP.
161/14:24:00	80	52.3-022	04.3 0473	086.0	026 349 32968 29485	2.2	0.1	-3.1	-52.9	
161/14:25:00	80	52.6-021	15.5 0471	082.4	026 350 32961 30350	2.0	-0.3	-2.9	-52.6	
161/14:25:08	80	52.6-021	08.2 0471	082.4	025 349 32955 30150	2.2	0.0	-1.7	-52.3	PASSED OVER GLACIER.
161/14:26:00	80	53.3-020	27.2 0471	082.6	026 349 32966 29649	2.1	-0.2	-2.1	-52.4	CAMERAS ON AT 14:25:30.
161/14:26:04	80	53.3-020	22.1 0471	082.6	027 347 32962 29559	2.2	-0.1	-2.1	-53.6	OVER SURGING GLACIER.
161/14:27:00	80	53.8-019	36.0 0472	082.7	028 344 32955 30920	2.3	-0.5	-1.3	-54.3	
161/14:28:00	80	54.4-018	47.5 0472	083.8	026 347 32961 29429	2.3	0.4	-2.7	-54.5	
161/14:29:00	80	54.3-017	57.5 0475	090.4	026 346 32966 29534	2.33	2.4	-2.0	-51.8	
161/14:30:00	80	53.6-017	07.4 0476	092.8	026 341 32951 30693	2.2	0.4	-1.5	-53.1	EXPOSE ROCK TO THE RIGHT.
161/14:30:16	80	53.3-016	53.8 0476	093.2	025 343 32973 30554	2.3	-0.4	-1.4	-53.3	
161/14:31:00	80	52.6-016	18.5 0476	092.6	027 344 32978 30468	2.0	0.2	-1.7	-55.6	
161/14:31:02	80	52.5-016	17.0 0477	092.7	029 341 32973 30506	2.0	0.1	-1.8	-52.7	EXTENSIVE SHORE POLYNYA.
161/14:31:59	80	00.0-000	00.0 0000	000.0	000 000 32965 30960	2.2	-0.6	-0.5	-52.8	
161/14:32:01	80	51.7-015	07.4 0478	093.2	029 344 32969 31072	2.2	-0.7	-0.5	-55.8	
161/14:32:07	80	51.7-015	22.7 0478	093.2	029 344 32957 31103	2.0	-0.1	-1.3	-54.4	20 MILES IN EACH DIRECTION.
161/14:32:13	80	51.7-015	17.5 0478	093.3	030 341 32945 31152	2.2	-0.4	-1.5	-52.3	EXTENSIVE SHORE POLYNYA.
161/14:32:27	80	51.4-015	07.4 0478	093.6	029 343 32951 30777	2.3	-0.1	-1.5	-52.9	CLASSIC SHORE POLYNYA.
161/14:32:35	80	51.3-015	00.0 0478	093.8	028 342 32960 30818	2.3	-0.2	-2.2	-52.9	FLUK DIVERSION 29.1 MILLIWATTS.
161/14:32:57	80	50.9-014	41.4 0479	093.9	031 345 32954 30927	2.2	-0.3	-3.6	-53.7	EDGE OF CONTINENT AND PROCEEDING INTO POLYNYA.
161/14:33:01	80	50.3-014	38.9 0479	093.7	031 345 32954 30927	2.2	-0.3	-5.9	-55.0	
161/14:33:13	80	50.6-014	27.7 0479	094.0	030 345 32949 31741	2.3	0.0	-11.4	-52.8	
161/14:33:37	80	50.2-014	08.8 0479	094.5	029 344 32952 31930	2.2	-0.2	-11.7	-54.7	GREASE ICE.
161/14:34:01	80	49.8-013	47.8 0480	094.9	029 344 32956 31995	2.3	0.0	-16.1	-54.6	MOST OF THESE OPEN WATER AND THIN ICE.
161/14:34:29	80	49.3-013	25.7 0480	095.2	028 344 32969 31983	2.1	0.1	-19.9	-54.3	
161/14:34:45	80	48.9-013	12.5 0480	095.5	028 344 32949 31933	2.2	-0.1	-19.4	-54.7	SEE FIRST YEAR AND MULTIYEAR MEDIUM AND SMALL FLOES IN POLYNYA.
								-0.0	-55.3	PATCHES OF OPEN WATER NEAR ICE FLOES.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
161/14:34:57	80	48.6-013	01.6	0479	095.5	030	343	32966	32006	2.1	-0.3	-10.1	-55.0	90 PERCENT GREASE ICE.
161/14:35:01	80	48.6-012	59.2	0479	095.5	030	343	32969	32017	2.1	-0.3	-13.0	-54.0	
161/14:35:05	80	48.5-012	56.7	0479	095.5	031	345	32969	32181	2.1	-0.3	-14.6	-53.2	STRATUS CLOUD PATCHES ABOUT 60 PERCENT.
161/14:36:01	80	47.2-012	10.7	0478	096.3	031	345	32950	31978	2.3	-0.6	-19.9	-54.8	
161/14:36:25	80	46.8-011	49.9	0478	096.4	030	343	32951	31976	2.2	0.0	-24.6	-52.8	VERY FAMOUS POLYNYA WHICH OPENS UP EVEN IN THE WINTER.
161/14:36:33	80	46.6-011	44.6	0478	096.6	030	343	32951	31966	2.3	0.2	-23.8	-54.3	CLOUDY OVER POLYNYA.
161/14:36:45	80	46.2-011	34.2	0477	096.9	030	343	32963	31959	2.2	0.5	-21.3	-53.5	THEORY ONLY ON FAMOUS POLYNYA.
161/14:36:59	80	45.9-011	22.6	0477	097.2	031	349	32971	31970	2.3	-0.3	-15.8	-54.7	90 PERCENT ICE CONCENTRATION MULTIYEAR AND FIRST YEAR - NORTH SIDE.
161/14:37:01	80	45.9-011	21.2	0477	097.2	031	346	32969	31964	2.2	-0.4	-17.1	-53.6	
161/14:37:09	80	45.7-011	14.6	0477	097.3	031	346	32959	31937	2.1	-0.2	-20.5	-53.9	STARBIRD SIDE 50 TO 60 PERCENT ICE CONCENTRATION.
161/14:37:15	80	45.6-011	10.7	0477	097.4	031	346	32948	31934	2.3	-0.4	-15.2	-52.2	LARGE FLOES BUT MOSTLY GREASE ICE.
161/14:38:01	80	44.5-010	32.9	0477	098.1	031	340	32950	31941	2.3	-0.2	-9.1	-53.2	
161/14:38:31	80	43.6-010	08.9	0478	098.2	031	347	32966	31950	2.3	-0.4	-18.0	-54.8	EDGE POLYNYA AND PROCEEDING INTO EDGE PACK.
161/14:38:55	80	42.9-009	49.9	0477	098.5	031	344	32966	31934	2.3	0.0	-16.5	-54.8	ICE CONCENTRATION ABOUT 90 PERCENT.
161/14:39:01	80	42.8-009	45.5	0477	098.6	030	345	32957	31948	2.2	-0.1	-13.3	-53.8	
161/14:39:15	80	42.3-009	33.4	0477	098.8	031	344	32962	31930	2.4	0.3	-10.5	-51.0	MIXTURE FIRST YEAR AND MULTIYEAR ABOUT 50-50.
161/14:40:01	80	41.1-008	56.6	0477	099.6	032	346	32941	31929	2.3	-0.3	-6.2	-54.3	
161/14:40:09	80	40.9-008	50.5	0477	099.6	032	346	32954	31932	2.3	-0.2	-6.0	-53.8	PROCEED TO THE EAST THE CLOUD COVER DECREASES ABOUT 10 PERCENT STRATUS.
161/14:40:15	80	40.7-008	46.8	0477	099.7	031	347	32969	31962	2.2	0.0	-6.5	-53.6	90 PERCENT ICE CONCENTRATION.
161/14:40:23	80	40.4-008	39.5	0477	099.8	031	347	32958	31928	2.1	-0.2	-5.5	-53.0	NUMEROUS SMALL LEADS AND POLYNYAS.
161/14:41:01	80	39.3-008	09.7	0477	100.5	030	347	32954	31896	2.4	-0.2	-4.8	-53.2	
161/14:42:01	80	37.4-007	22.5	0477	101.1	030	347	32962	31914	2.3	-0.4	-4.7	-53.3	
161/14:42:09	80	37.0-007	15.9	0477	101.1	031	350	32965	31914	2.2	-0.5	-6.4	-53.3	MANY LARGE FLOES MIXTURE MULTIYEAR AND FIRST YEAR 50 - 50.
161/14:42:15	80	36.8-007	12.1	0477	101.2	030	348	32956	31904	2.2	-0.1	-5.1	-53.7	90 PERCENT ICE CONCENTRATION.
161/14:42:51	80	35.6-006	43.1	0476	101.7	030	352	32967	31895	2.2	-0.2	-4.8	-53.7	10 PERCENT STRATUS CUMULOUS LOW LEVEL.
161/14:42:59	80	35.3-006	36.4	0476	101.9	031	349	32962	31898	2.2	0.0	-5.8	-52.5	CORRECTION STRATOCUMULUS.
161/14:43:01	80	35.2-006	34.8	0476	101.9	031	349	32955	31887	2.2	-0.2	-5.3	-53.2	
161/14:44:01	80	33.0-005	49.2	0476	102.7	030	348	32956	31907	2.3	0.5	-6.1	-53.2	
161/14:44:05	80	32.9-005	46.3	0476	102.7	032	348	32964	31904	2.3	0.1	-6.1	-54.3	SOME LARGE POLYNYAS.
161/14:44:41	80	31.6-005	18.6	0475	102.8	032	352	32960	31895	2.2	-0.5	-5.8	-52.9	VERY LARGE ICE FLOES IN THIS AREA.
161/14:45:01	80	30.9-005	03.4	0475	103.2	030	350	32961	31894	2.4	0.0	-4.2	-52.6	
161/14:46:01	80	28.5-004	17.0	0474	104.1	030	355	32966	31887	2.2	-0.2	-7.4	-50.0	
161/14:47:01	80	26.1-003	32.5	0473	104.8	033	352	32966	31853	2.4	-0.6	-12.2	-52.9	
161/14:47:03	80	26.0-003	31.3	0473	104.8	033	352	32963	31896	2.4	-0.7	-13.0	-53.0	ICE CONCENTRATION 90 PERCENT, NUMEROUS SMALL POLYNYAS.
161/14:48:01	80	23.6-002	48.2	0473	105.1	034	352	32958	31859	2.4	0.2	-9.4	-53.3	
161/14:48:05	80	23.4-002	44.3	0473	105.3	033	354	32965	31881	2.4	0.4	-9.3	-51.9	ALONG TRACK NO PREFERRED
161/14:48:21	80	22.9-002	33.6	0473	105.4	033	353	32964	31858	2.3	0.0	-8.1	-53.5	ORIENTATION SORT OF RANDOM SMALL POLYNYAS.
161/14:48:45	80	21.7-002	14.4	0474	105.7	033	349	32960	31864	2.4	0.2	-11.1	-54.9	ALONG THE TRACK NO PREFERRED ORIENTATION - SORT OF RANDOM SMALL POLYNYAS.
161/14:49:01	80	21.0-002	02.8	0474	106.2	032	348	32966	31833	2.3	0.2	-9.9	-54.3	
161/14:49:43	80	19.1-001	32.3	0477	106.6	034	353	32955	31833	2.3	0.3	-10.5	-52.6	LEAVING THE MAIN PACK AND IN MARGINAL ZONE DECREASE IN SIZE OF FLOES.
161/14:50:01	80	18.3-001	19.2	0477	106.9	033	359	32957	31804	2.1	0.4	-8.0	-50.8	
161/14:50:03	80	18.2-001	17.7	0477	107.0	033	000	32953	31804	2.2	0.0	-7.9	-51.0	ANN - 1.6MILLAMATTS DIVERSION.
161/14:50:35	80	16.8-000	54.3	0476	107.0	033	005	32969	31813	2.2	-0.4	-7.2	-51.2	CHARACTER OF THE MIZ IS AWAY FROM THE EDGE, NUMBEROUS ICE STREAMERS.
161/14:51:01	80	15.4-000	35.7	0476	107.3	032	003	32963	31818	2.2	-0.3	-5.4	-51.2	
161/14:51:11	80	15.0-000	28.2	0475	107.4	033	001	32964	31853	2.1	0.0	-3.7	-52.0	SMALL ICE FLOES.
161/14:51:33	80	13.9-000	12.3	0475	107.8	033	001	32965	31805	2.1	0.3	-3.6	-51.5	TRANSITION OF LARGE FLOES AND FRACTURED FLOES, NUMBERUS SMALL FLOES.
161/14:51:39	80	13.7-000	08.9	0475	108.1	032	001	32952	31787	2.2	0.1	-3.5	-52.1	DECREASE IN ICE CONCENTRATION.
161/14:52:01	80	12.5 000	08.0	0475	108.2	033	006	32967	31809	2.2	-0.9	-4.3	-51.6	
161/14:53:01	80	09.5 000	50.3	0474	108.7	032	004	32964	31826	1.9	0.1	-3.3	-49.9	ICE EDGE IS EXTREMELY DEFUSED STRETCHED TO THE SOUTH BY NORTHERLY WINDS.
161/14:53:33	80	08.0 001	13.2	0474	109.4	032	006	32944	31813	2.4	-0.2	-3.2	-50.6	ICE CONCENTRATION 40 PERCENT.
161/14:54:01	80	06.6 001	32.2	0474	109.4	032	005	32933	31798	2.2	0.2	-3.0	-50.1	
161/14:55:01	80	03.3 002	14.8	0472	108.7	035	004	32976	31809	2.6	-14.0	-3.7	-51.9	
161/14:56:01	80	00.1 002	56.1	0473	111.9	028	004	32969	31773	2.2	-0.5	-3.2	-51.5	
161/14:56:09	79	59.8 005	00.7	0470	109.0	035	007	32977	31839	3.9	-25.8	-3.4	-51.9	ICE CONCENTRATION 20 PERCENT.
161/14:57:01	80	00.6 003	35.4	0433	038.2	037	344	32987	31822	2.5	-29.9	-2.1	-50.4	
161/14:58:01	80	07.3 003	44.6	0424	357.5	033	348	32901	31720	2.6	-2.0	-4.1	-51.6	
161/14:58:19	80	09.6 003	44.5	0424	356.9	034	348	32922	31721	2.5	-0.3	-4.2	-52.6	*** START OF RUN 1 TIME 14.58.20 LAT 8009.6 N LON 0344.5 E FL 329
161/14:59:01	80	14.5 003	43.2	0424	357.3	033	349	32947	31736	2.4	-0.3	-5.2	-51.7	
161/14:59:09	80	15.2 003	43.2	0424	357.2	034	348	32957	31758	2.5	-0.5	-4.4	-51.3	START OF RUN IN SMALL FRACTURED FLOES ICE CONCENTRATION ABOUT 40 PERCENT.
161/14:59:29	80	17.7 003	42.7	0424	356.9	036	347	32954	31740	2.3	-0.3	-6.0	-52.0	ANN - 14 58 20 START MARE DATA RUN.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
161/14:59:57	80 21.0	003 41.4	0425	357.3	033	348	32960	31748	2.4	0.0	-5.4	-51.2	ICE CONCENTRATION 60 PERCENT.
161/15:00:01	80 21.3	003 41.5	0425	357.4	036	348	32962	31744	2.3	-0.1	-5.2	-50.6	
161/15:00:39	80 25.8	003 40.7	0425	357.4	035	348	32959	31743	2.3	-0.2	-4.7	-50.9	
161/15:00:51	80 27.3	003 40.5	0426	357.2	035	347	32961	31746	2.3	-0.5	-4.0	-50.5	LEAVING SMALL FRACTURED FLOES ENTERING LARGE FLOES.
161/15:00:57	80 27.9	003 40.2	0426	357.1	034	347	32961	31746	2.4	-0.5	-4.4	-50.6	ICE TYPE.
161/15:01:01	80 28.6	003 40.1	0426	357.1	033	345	32959	31746	2.4	-0.1	-4.6	-51.0	
161/15:01:35	80 32.6	003 39.4	0426	356.9	032	344	32959	31792	2.4	0.0	-4.0	-50.5	THIN ICE IN POLYNYAS.
161/15:02:01	80 35.6	003 38.6	0427	357.2	036	347	32964	31781	2.3	-0.2	-4.2	-52.4	
161/15:02:45	80 40.8	003 37.6	0427	357.0	033	345	32954	31765	2.4	-0.2	-4.1	-51.3	ICE CONCENTRATION INCREASING ABOUT 85 PERCENT.
161/15:02:55	80 42.0	003 37.1	0427	357.1	034	344	32960	31763	2.3	-0.1	-4.2	-51.7	CLASSIC STRUCTURE VERY SIMILAR
161/15:03:01	80 42.7	003 36.8	0427	357.1	034	344	32958	31749	2.3	-0.4	-4.2	-52.3	
161/15:03:05	80 43.2	003 36.9	0428	357.2	034	344	32957	31747	2.3	-0.4	-4.5	-52.5	CLASSIC STRUCTURE VERY SIMILAR TO THE PAST.
161/15:03:11	80 43.7	003 36.9	0428	357.0	035	342	32953	31739	2.4	-0.7	-5.4	-52.4	FRACTURED ZONE, FIRST YEAR.
161/15:03:23	80 45.5	003 36.9	0428	356.6	035	347	32966	31759	2.3	-0.1	-7.5	-53.8	PATCHES OF LOW LEVEL STRATOCUMULUS ABOUT 20 PERCENT.
161/15:03:35	80 46.8	003 36.3	0428	356.7	034	346	32963	31766	2.4	0.1	-6.3	-51.6	MARGINAL ICE ZONE.
161/15:04:01	80 49.8	003 35.5	0428	357.3	033	345	32961	31736	2.3	0.2	-7.2	-50.3	
161/15:04:49	80 55.4	003 34.5	0429	356.9	031	346	32962	31799	2.3	-0.3	-11.6	-50.5	MIXTURE MULTIYEAR AND FIRST YEAR, MEDIUM TO SMALL 90 PERCENT ICE CONCENTRATION.
161/15:05:01	80 57.0	003 33.6	0429	356.8	031	344	32959	31768	2.4	-0.7	-12.1	-49.0	
161/15:05:33	81 00.7	003 33.0	0429	357.4	029	346	32968	31766	2.4	0.3	-10.6	-51.2	NORTH DECREASE IN AMOUNT OF OPEN WATER.
161/15:06:01	81 03.9	003 32.3	0430	357.3	032	347	32952	31735	2.3	-0.4	-8.7	-50.2	
161/15:06:23	81 06.7	003 31.6	0430	357.0	031	346	32954	31751	2.3	-0.3	-11.6	-51.0	CLOUD INCREASING - 30 PERCENT LOW LEVEL STRATOCUMULUS.
161/15:07:01	81 11.3	003 30.5	0430	357.2	032	346	32969	31765	2.2	-0.3	-11.1	-49.5	
161/15:07:57	81 17.8	003 28.8	0431	357.1	032	346	32967	31732	2.3	-0.4	-8.6	-49.7	80 45.4N 6 06.6EAST.
161/15:08:01	81 18.3	003 29.1	0431	357.1	033	348	32972	31750	2.2	-0.5	-8.3	-48.0	
161/15:09:01	81 25.5	003 27.0	0430	357.2	031	348	32951	31750	2.3	-0.5	-12.4	-51.4	
161/15:09:13	81 26.7	003 26.5	0430	357.0	033	345	32963	31756	2.1	0.1	-13.4	-50.4	ICE CONCENTRATION 95 PERCENT.
161/15:10:01	81 32.6	003 25.2	0430	357.4	034	350	32965	31749	2.3	-0.5	-7.1	-51.5	
161/15:11:01	81 39.7	003 23.3	0431	357.3	030	350	32958	31753	2.3	0.0	-10.9	-49.7	
161/15:11:57	81 46.4	003 21.2	0431	357.3	029	352	32959	31739	2.3	-0.4	-9.1	-49.5	NORTH END OF MIZEX HAS CONSIDERABLE ICE COVER.
161/15:12:01	81 46.6	003 21.3	0431	357.3	031	353	32952	31740	2.3	-0.3	-10.2	-49.9	
161/15:12:29	81 50.3	003 20.5	0431	357.6	031	354	32960	31763	2.3	-1.2	-11.3	-50.0	!!! END OF RUN 1 TIME 15.12.30 LAT 8150.3 N LON 00320.5 E FL 329
161/15:13:01	81 54.0	003 18.3	0428	006.3	031	007	33003	31816	2.7	29.0	-13.2	-50.9	
161/15:14:01	81 58.5	003 52.9	0454	084.8	022	002	32969	31788	2.6	28.7	-17.0	-48.8	
161/15:14:41	81 56.4	004 23.6	0469	158.9	023	319	33152	31933	0.6	38.7	-16.2	-49.6	45 DEGREE BANK TO THE RIGHT.
161/15:15:01	81 53.8	004 26.4	0479	175.3	025	004	32846	31628	2.2	-1.9	-12.8	-49.3	
161/15:15:15	81 51.8	004 27.5	0481	174.8	026	004	32865	31657	2.5	0.7	-23.6	-49.4	*** START OF RUN 2 TIME 15.15.16 LAT 8151.7 N LON 00427.4 E FL 328
161/15:15:49	81 47.3	004 29.9	0482	177.1	024	000	32926	31726	2.4	2.1	-10.7	-49.0	ANJU - MARE 2050 DATA POINT.
161/15:16:01	81 45.5	004 30.5	0483	177.9	022	003	32939	31724	2.4	0.7	-11.1	-48.2	
161/15:16:07	81 44.9	004 30.5	0483	178.1	022	003	32944	31701	2.3	0.4	-9.4	-50.3	START OF RUN ICE CONCENTRATION 90 PERCENT, 60 TO 70 STRATOCUMULUS CLOUDS.
161/15:17:01	81 37.7	004 31.3	0486	178.3	025	006	32956	31717	2.2	-0.2	-7.8	-50.0	
161/15:17:07	81 36.9	004 31.6	0486	178.3	024	005	32953	31715	2.2	-0.1	-8.5	-49.9	NUMEROUS LARGE FLOES, RANDOM POLYNYA PATTERN.
161/15:17:17	81 35.5	004 31.9	0487	178.4	024	005	32969	31728	2.0	0.1	-8.3	-51.3	ICE CONCENTRATION DECREASING AS WE GO SOUTH.
161/15:18:01	81 29.5	004 32.7	0490	178.9	025	359	32958	31719	2.0	-0.1	-7.4	-49.8	
161/15:18:51	81 22.7	004 33.4	0493	178.9	025	356	32958	31720	2.1	-0.1	-7.7	-49.7	HAZE IS INCREASING.
161/15:19:01	81 21.4	004 34.1	0493	178.8	027	357	32960	31729	2.1	-0.3	-11.2	-50.4	
161/15:19:49	81 15.0	004 34.2	0495	179.6	027	356	32956	31734	2.2	-0.5	-10.5	-48.6	80 PERCENT CLOUD COVER.
161/15:20:01	81 13.1	004 34.3	0495	179.6	026	355	32951	31704	2.0	-0.4	-11.4	-48.9	
161/15:21:01	81 04.9	004 35.4	0494	179.4	025	355	32958	31734	2.1	-0.2	-21.8	-49.8	
161/15:21:19	81 02.6	004 35.2	0494	179.3	028	356	32956	31720	2.1	-0.4	-14.5	-49.4	VERY LARGE MULTIYEAR FLOES, 85 PERCENT CONCENTRATION.
161/15:22:01	80 56.7	004 36.2	0494	179.2	026	352	32958	31705	2.2	0.0	-16.0	-50.4	
161/15:23:34	00 00.0	000 00.0	0000	000.0	000	000	32958	31720	2.0	-0.2	-15.7	-50.0	
161/15:23:36	00 00.0	000 00.0	0000	000.0	000	000	32957	31717	2.0	-0.2	-14.5	-50.4	FRA
161/15:23:54	80 41.1	004 38.1	0493	179.1	026	355	32957	31707	2.0	-0.3	-19.3	-49.1	FRACTURED RUNNING FROM SOUTHWEST UP TO NORTHEAST ICE CONCENTRATION 60 PERCENT.
161/15:24:00	80 40.4	004 37.7	0493	179.2	026	355	32955	31705	2.1	-0.4	-18.8	-49.5	
161/15:24:10	80 38.9	004 38.0	0493	179.2	026	353	32957	31707	2.1	0.0	-15.2	-50.2	15 23 03 TRANSITION LARGE TO FRACTURED FLOES INTO THE MIZ.
161/15:24:36	80 35.4	004 38.2	0493	179.3	025	350	32962	31721	2.2	0.0	-8.4	-51.6	LORAN C TRACKING ALL FIVE STATIONS.
161/15:25:00	80 32.2	004 38.6	0494	179.8	027	349	32960	31709	2.0	-0.1	-6.7	-52.3	
161/15:25:22	80 29.1	004 39.0	0494	179.6	029	349	32951	31702	2.0	-0.1	-5.3	-50.5	EDGE OF FRACTURED ICE ZONE MIZ.
161/15:25:32	80 27.9	004 39.0	0494	179.5	027	352	32955	31712	2.2	-0.2	-4.6	-51.1	AREA OF MANY LARGE BANDS.
161/15:26:00	80 23.9	004 39.7	0494	179.1	025	356	32960	31713	2.0	0.4	-4.0	-51.8	

YEAR 1984 ADDAS FLIGHT LOG — FLIGHT NO. 5 — MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
161/15:26:04	80 23.4	004 40.1	0494	179.1	026	358	32960	31709	2.1	0.3	-4.0	-51.7	LOTS OF OPEN WATER ON PORT SIDE.
161/15:26:12	80 22.5	004 39.6	0494	179.1	025	000	32959	31709	2.1	-0.3	-3.9	-50.9	ORIENTATION OF PLUME IS
161/15:26:16	80 21.7	004 40.0	0494	179.1	025	358	32958	31717	2.0	-0.5	-4.2	-52.2	EASTWEST.
161/15:26:24	80 20.7	004 40.1	0494	179.1	026	358	32950	31732	2.0	-0.1	-3.3	-50.5	ORIENTATION OF PLUMES IS EASTWEST.
161/15:27:00	80 15.8	004 40.5	0494	179.2	027	357	32956	31752	2.0	-0.1	-2.4	-50.9	
161/15:27:32	80 11.5	004 40.9	0495	179.0	027	359	32958	31741	2.1	0.1	-2.7	-49.6	STILL NUMEROUS SMALL PLUMES.
161/15:28:00	80 07.7	004 41.4	0499	179.0	029	000	32976	31775	1.9	-0.2	-2.1	-51.0	
161/15:28:14	80 05.6	004 41.6	0502	178.9	029	359	32977	31742	1.8	-0.2	-2.0	-50.7	!!! END OF RUN 2 TIME 15.28.15 LAT 8005.6 N LON 00441.6 E FL 329
161/15:29:00	79 59.9	004 55.2	0493	125.3	036	006	33010	31804	2.1	-30.5	-5.4	-51.3	
161/15:29:20	79 58.7	005 08.3	0479	093.2	042	359	33014	31827	2.6	-35.3	-3.9	-51.1	SOUTHERN EDGE OF MIZ BOX IS CLEAR THIN LAY ER OF HAZE.
161/15:29:32	79 58.7	005 16.5	0466	077.0	045	353	33001	31824	3.0	-37.2	-2.6	-50.8	CORRECITON: LAYER.
161/15:30:00	80 00.4	005 33.3	0436	026.1	043	338	33031	31894	2.0	-39.8	-1.8	-50.6	
161/15:30:36	80 04.6	005 39.0	0435	003.4	035	343	32842	31634	2.3	-5.2	-0.8	-50.3	CORRECTION AGAIN: CORRECTION.
161/15:30:58	80 07.3	005 39.6	0433	000.0	035	344	32891	31669	2.2	-1.9	-3.0	-49.7	*** START OF RUN 3 TIME 15.30.59 LAT 8007.4 N LON 00539.7 E FL 328
161/15:31:00	80 07.4	005 39.7	0433	359.7	035	344	32891	31693	2.2	-1.7	-2.5	-50.0	
161/15:31:44	80 12.8	005 40.0	0432	359.0	034	345	32938	31695	2.1	0.0	-2.6	-49.3	RUN - MARE DATAPOINT 3975.
161/15:32:00	80 14.8	005 39.8	0431	359.1	032	346	32937	31706	2.1	0.0	-2.9	-50.7	
161/15:32:06	80 15.4	005 39.6	0431	359.2	034	345	32944	31721	2.2	0.0	-2.3	-49.5	PLUMES GENERALLY DISTRIBUTED EAST AND WEST.
161/15:32:10	80 15.8	005 39.8	0431	359.2	034	346	32953	31713	2.1	-0.2	-2.8	-50.5	DIFFUSED ICE EDGE.
161/15:33:00	80 21.8	005 39.8	0430	359.3	035	344	32956	31733	2.1	-0.2	-3.9	-52.3	
161/15:33:54	80 28.2	005 40.4	0429	358.6	037	342	32960	31753	2.2	-0.6	-14.7	-51.5	AT THE TRANSITION TO THE FRACTURED ICE ZONE.
161/15:34:00	80 28.9	005 40.2	0429	358.5	035	342	32961	31719	2.2	-0.6	-12.1	-52.0	
161/15:34:24	80 31.9	005 40.1	0429	358.7	033	343	32954	31705	2.2	-0.3	-8.3	-51.3	WEATHER AT POLAR QUEEN NOW
161/15:34:42	80 34.1	005 40.4	0428	358.8	034	344	32958	31695	2.4	-0.4	-7.6	-49.8	WINDS 320 AT 18 KNOTS.
161/15:34:52	80 35.0	005 40.1	0428	358.7	034	345	32957	31699	1.9	0.1	-8.6	-49.0	A LOT OF CLOUDS.
161/15:35:00	80 36.2	005 40.1	0428	358.9	034	345	32949	31692	2.3	0.0	-8.8	-50.4	
161/15:35:02	80 36.3	005 39.8	0428	358.9	034	345	32955	31703	2.1	-0.1	-9.0	-49.6	SHOULD BE ABLE TO SEE THE POLAR QUEEN SOON.
161/15:35:28	80 39.4	005 40.0	0428	359.9	034	344	32952	31704	2.2	-0.5	-11.2	-51.4	THE CLOUD COVER IS ABOUT 90% STRATOCUMULUS.
161/15:35:46	80 41.5	005 40.3	0428	358.7	035	344	32958	31722	2.2	-0.5	-19.5	-51.1	CLOUD COVER IS INCREASING.
161/15:36:00	80 43.2	005 40.0	0427	358.8	035	344	32966	31711	2.1	-0.1	-17.9	-50.0	NOW ENTERING THE POLAR PACK.
161/15:36:44	80 48.3	005 40.4	0427	359.2	034	345	32960	31716	2.1	-0.4	-9.5	-51.5	WE'RE OVER LARGE TO MEDIUM SIZE FLOES.
161/15:37:00	80 50.3	005 40.0	0427	359.0	034	345	32948	31703	2.2	-0.5	-9.2	-51.5	
161/15:37:32	80 54.0	005 40.3	0426	358.8	035	344	32961	31723	2.2	-0.4	-12.4	-50.1	CLOUD COVER INCREASING ABOUT 60%.
161/15:38:00	80 57.4	005 40.1	0426	358.9	037	346	32968	31735	2.0	-0.7	-15.8	-48.7	
161/15:39:00	81 04.5	005 40.1	0425	359.3	034	348	32949	31752	2.2	-0.6	-8.8	-48.7	
161/15:40:00	81 11.5	005 40.4	0425	359.0	036	349	32959	31718	2.3	-0.3	-6.3	-51.3	
161/15:41:00	81 18.6	005 40.1	0424	359.4	032	354	32960	31712	2.4	0.0	-7.8	-51.2	
161/15:41:22	81 21.1	005 40.0	0424	359.7	033	355	32960	31721	2.2	0.0	-6.7	-49.3	NUMEROUS LARGE AND MEDIUM FLOES. ICE CONCENTRATION 90%.
161/15:42:00	81 25.5	005 40.1	0424	359.4	031	351	32958	31738	2.6	-0.3	-5.7	-48.4	
161/15:42:32	81 29.4	005 39.7	0424	359.2	033	350	32963	31701	2.4	-0.3	-9.1	-49.2	IT APPEARS THAT THERE IS THIN ICE IN THE POLYNYA.
161/15:42:54	81 31.8	005 39.8	0424	359.1	035	349	32965	31733	2.4	-0.4	-8.3	-51.4	AS WE APPROACH THE END OF THE RUN HAZE IS INCREA
161/15:42:58	81 32.2	005 39.8	0424	359.0	035	349	32969	31723	2.2	-0.3	-10.1	-49.8	ING.
161/15:43:00	81 32.6	005 40.0	0424	359.0	035	349	32969	31742	2.2	-0.2	-11.1	-49.5	
161/15:43:06	81 33.3	005 39.8	0424	359.0	034	348	32958	31698	2.2	-0.2	-12.4	-48.8	ICE CONCENTRATION IS ABOUT 95%
161/15:43:34	81 36.4	005 39.7	0424	359.2	036	350	32950	31716	2.4	-0.2	-12.1	-49.5	THAT'S INCREASING ABOVE.
161/15:44:00	81 39.7	005 39.8	0423	359.1	035	347	32960	31708	2.3	-0.2	-10.7	-49.4	
161/15:44:46	81 45.0	005 40.1	0423	359.1	034	346	32957	31757	2.2	0.0	-13.1	-49.2	ONE MINUTE 'TIL END OF RUN THREE.
161/15:45:00	81 46.6	005 40.0	0423	359.1	034	348	32953	31697	2.2	-0.2	-15.3	-49.4	
161/15:45:06	81 47.2	005 40.2	0423	359.1	036	349	32953	31766	2.2	-0.3	-15.3	-48.6	LARGE MEDIUM FLOES. ICE CONCENTRATION 95%.
161/15:45:54	81 53.1	005 40.0	0423	359.1	036	349	32950	31697	2.2	0.2	-19.1	-48.8	!!! END OF RUN 3 TIME 15.45.55 LAT 8153.3 N LON 00540.2 E FL 329
161/15:46:00	81 53.6	005 40.0	0423	001.9	035	356	32943	31736	4.4	23.1	-18.2	-50.0	
161/15:46:50	81 57.3	006 06.1	0452	092.6	026	359	33005	31783	2.5	36.7	-20.4	-48.7	LOCAL TIME IN EVENES IS 17:46
161/15:47:00	81 57.0	006 16.1	0464	111.6	024	357	32984	31709	2.5	34.2	-19.1	-48.4	
161/15:47:28	81 54.7	006 35.3	0482	140.6	028	355	32904	31647	2.5	20.6	-15.5	-49.4	TEST
161/15:48:00	81 50.6	006 48.2	0490	166.9	029	352	32917	31642	2.3	13.9	-12.2	-50.9	
161/15:49:19	00 00.0	000 00.0	0000	000.0	000	000	32959	31706	2.1	-0.6	-15.5	-49.4	
161/15:49:25	81 39.4	006 49.8	0490	182.1	026	000	32954	31685	2.0	-1.0	-13.1	-50.3	*** START OF RUN TIME 15.49.26 LAT 8139.4 N LON 00649.8 E FL 329
161/15:50:01	81 34.5	006 48.9	0491	181.4	024	357	32951	31687	2.0	-0.3	-9.6	-48.8	
161/15:50:09	81 33.3	006 48.8	0491	181.5	024	359	32954	31686	2.1	-0.1	-10.2	-49.1	80% CLOUD COVER.
161/15:50:27	81 30.9	006 48.5	0491	181.3	027	358	32958	31690	2.2	-0.2	-7.2	-49.7	REAL START OF RUN SHOULD BE 15:48:55.

YEAR 1934 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- MIZOX

----TIME----	--LAT--	--LONG--	GDD TRUE SPD HEAD	-WIND-- SPD DIR	-ALTITUDE-- PRES RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
161/15:50:51	81 27.5	006 48.0	0491 181.2	026 000	32953 31707	1.8	-0.2	-7.5	-49.5	ADDAS LOST BACKGROUND A MINUTE AGO.
161/15:51:01	81 26.4	006 47.7	0491 181.2	025 000	32958 31705	2.1	-0.4	-7.9	-49.4	
161/15:51:03	81 26.1	006 47.8	0491 181.2	025 000	32955 31694	2.0	-0.2	-8.6	-49.1	REBOOT HAPPENED RIGHT AT START OF RUN.
161/15:51:27	81 24.1	006 47.3	0491 181.0	026 000	32962 31702	2.0	0.0	-10.1	-49.5	START MARE DATA RUN 1 15:50:35
161/15:51:57	81 23.9	006 46.8	0492 181.3	025 000	32954 31710	2.0	-0.3	-6.2	-51.4	START OF MARE DATA RUN AT 15:50:35
161/15:52:01	81 17.9	006 46.5	0492 181.0	023 001	32951 31707	2.0	-0.1	-7.4	-50.5	
161/15:52:11	81 16.6	006 46.6	0492 181.0	023 004	32961 31669	2.0	-0.4	-7.8	-50.5	START OF MARE DATA RUN AT 15:50:55
161/15:52:33	81 10.1	006 45.6	0492 180.8	023 004	32958 31693	2.0	0.0	-8.3	-50.2	
161/15:52:37	81 08.8	006 45.4	0492 180.7	025 003	32950 31678	2.1	-0.4	-8.7	-49.8	CLO
161/15:52:53	81 05.7	006 45.6	0491 180.8	025 003	32962 31695	2.0	-0.1	-8.3	-50.8	CLOUD COVERAGE 60 PERCENT LARGE TO MEDIUM FLOES.
161/15:53:31	81 05.7	005 45.5	0492 180.8	023 004	32958 31699	1.8	-0.2	-8.7	-50.6	90 PERCENT CONCENTRATION - ICE.
161/15:53:41	81 01.8	005 45.0	0492 180.9	023 003	32946 31672	2.0	-0.1	-12.3	-50.0	
161/15:53:51	80 55.7	006 43.8	0492 181.2	026 357	32962 31673	2.00	-0.2	-14.0	-50.2	
161/15:53:53	80 48.6	006 43.2	0492 181.2	028 350	32963 31689	2.00	-0.2	-13.5	-51.3	FRACTURED ICE ZONE TRANSITION.
161/15:56:01	80 45.5	006 43.4	0492 181.2	028 358	32959 31679	2.00	0.2	-11.3	-51.8	
161/15:57:01	80 37.4	006 42.4	0493 181.4	025 355	32963 31717	2.0	0.0	-9.7	-49.2	
161/15:57:05	80 36.8	006 42.1	0493 181.4	024 354	32965 31691	2.0	0.0	-9.2	-49.8	PROBED CLOUDINESS INTO THE MIZ IS INCREASING.
161/15:57:47	80 30.9	006 41.4	0493 180.8	026 000	32954 31716	2.1	0.0	-7.7	-49.2	EDGE OF FRACTURED ZONE, ENTERED FLOES.
161/15:58:29	80 25.3	006 41.0	0493 181.1	027 359	32959 31729	2.0	-0.1	-15.4	-49.7	THICK OF THE FLOES IS WIDE - 30 NAUTICAL MILES WIDE.
161/15:58:53	80 22.0	006 40.7	0493 181.2	029 359	32967 31699	2.1	-0.2	-12.7	-50.1	ALL THE ICE IS MACH.
161/15:59:01	80 20.9	006 40.2	0493 181.2	026 357	32963 31731	1.8	-0.4	-7.1	-50.4	
161/15:59:23	80 17.8	006 40.1	0493 181.2	024 354	32967 31726	1.8	0.4	-7.4	-49.8	LEAD ORIENTATION IS PARALLEL FROM THE MIZ EASTWEST.
161/16:00:01	80 12.8	006 39.4	0493 181.1	026 356	32963 31702	2.1	-0.2	-4.1	-50.8	
161/16:00:55	80 05.4	006 38.8	0493 181.2	027 002	32972 31742	2.1	-4.1	-3.0	-50.9	!!! END OF RUN 4 TIME 16.03.54 LAT 6035.4 N LON 0329.8 E FL 329
161/16:01:01	80 04.3	006 39.0	0495 178.5	025 012	32939 31771	3.9	-28.8	-3.4	-50.5	
161/16:01:03	80 04.2	006 39.3	0494 175.5	026 011	33038 31766	3.3	-32.1	-3.4	-51.7	PLUMES EXTEND SOUTH OF THE END OF THE RUN.
161/16:02:01	79 59.3	007 07.0	0458 033.0	044 359	32930 31802	2.7	-36.0	-2.3	-51.0	
161/16:02:31	80 00.9	007 25.1	0425 025.1	042 345	33027 31813	1.6	-36.7	-2.3	-50.7	40 DEGREE LEFT BANK.
161/16:03:01	80 04.2	007 28.7	0425 001.9	037 342	32948 31629	1.9	4.8	-3.3	-52.3	
161/16:04:01	80 11.5	007 33.9	0427 005.2	032 348	32927 31697	2.2	-0.4	-5.1	-49.3	
161/16:04:05	80 11.8	007 34.2	0426 005.2	032 348	32930 31684	2.2	-0.1	-4.8	-51.4	*** START OF RUN 5 TIME 16.04.06 LAT 6012.1 N LON 0324.5 E FL 329
161/16:04:47	80 16.6	007 37.3	0426 054.3	033 352	32953 31703	2.1	-2.4	-4.3	-49.6	ASN - MARE 16340 AT RUN START.
161/16:05:01	80 18.4	007 38.3	0426 003.1	034 351	32958 31716	2.2	-2.0	-3.9	-51.1	
161/16:05:37	80 22.6	007 39.7	0426 001.4	034 350	32965 31720	2.1	-0.7	-6.7	-51.3	*** START OF RUN 4 TIME 16.05.36 LAT 6022.6 N LON 0329.7 E FL 329
161/16:06:01	80 25.2	007 40.1	0426 001.4	034 352	32960 31694	2.2	-0.3	-5.7	-51.7	START OF RUN 5 ABOVE.
161/16:06:01	80 25.4	007 40.3	0426 001.3	032 352	32953 31703	2.2	-0.5	-5.3	-51.2	
161/16:06:09	80 26.5	007 40.5	0425 001.4	034 352	32960 31721	2.2	0.0	-7.7	-50.5	CORRECTION: ASN MARE RUN START 1750.
161/16:06:29	80 28.8	007 40.9	0426 001.1	034 351	32949 31709	2.1	0.5	-7.5	-50.4	ALSO 1750 RECORDED AFTER SECND START OF RUN.
161/16:07:01	80 32.6	007 42.0	0425 001.2	033 349	32950 31708	2.2	0.0	-7.5	-49.9	
161/16:07:27	80 35.6	007 42.4	0425 001.4	034 351	32957 31682	2.3	-0.2	-7.2	-50.5	STARTING OF FRACTURED ICE ZONE.
161/16:08:01	80 39.6	007 43.5	0425 001.6	034 352	32948 31671	2.2	-0.8	-6.5	-50.9	
161/16:08:11	80 40.9	007 45.4	0426 001.5	031 353	32952 31690	2.2	-0.4	-10.3	-49.0	LEAVING FRACTURED ICE ZONE AND ENTERING MAIN ICE PACK.
161/16:09:37	80 50.9	007 45.8	0426 001.6	029 353	32945 31690	2.4	-0.3	-11.1	-50.8	8 NAUTICAL MILES THICKNESS OF MAIN ICE PACK.
161/16:09:47	80 52.0	007 46.5	0426 001.6	031 353	32957 31746	2.1	-0.2	-11.2	-50.8	
161/16:10:01	80 53.8	007 46.8	0426 001.7	031 356	32965 31706	2.3	-0.3	-8.8	-51.8	
161/16:10:17	80 55.5	007 47.1	0426 001.7	031 351	32950 31691	2.3	-0.1	-12.7	-52.0	ASN - APPROX FLUX DIVERSION .9 HILLOCKYS OF ICE PACKS.
161/16:10:29	80 57.0	007 47.3	0426 001.8	030 356	32955 31681	2.2	-0.2	-9.0	-49.9	CORRECTION : OVER ICE PACKS.
161/16:11:01	81 00.8	007 48.3	0426 001.6	029 357	32957 31720	2.4	-0.4	-8.2	-48.4	
161/16:11:27	81 03.6	007 49.2	0426 001.5	031 353	32964 31697	2.2	-0.1	-7.7	-49.5	CLOUD COVER DIMINISHING MEDIUM AND LARGE SIZE FLOES 70 PERCENT ICE CONCENTRATION
161/16:11:37	81 05.0	007 49.2	0426 001.5	029 353	32958 31705	2.2	-0.1	-9.0	-49.2	LARGE FLOES ARE MULTIYEAR .
161/16:12:01	81 07.9	007 50.3	0427 001.4	031 351	32953 31735	2.2	-0.3	-7.4	-49.2	
161/16:12:41	81 12.4	007 50.9	0427 001.4	031 352	32961 31675	2.2	-0.4	-5.9	-50.9	SUN BLEND IN POLYNYA AREA FULL OF THICK ICE.
161/16:12:53	81 13.9	007 51.3	0427 001.5	030 352	32953 31687	2.1	0.0	-9.3	-50.9	NO FLICKERING.
161/16:13:01	81 15.0	007 51.8	0426 001.5	029 352	32952 31679	2.2	-0.2	-7.6	-48.9	
161/16:14:01	81 22.0	007 53.9	0426 001.5	030 349	32959 31714	2.3	-0.6	-16.3	-48.5	
161/16:14:27	81 25.0	007 54.5	0426 001.5	031 351	32962 31679	2.1	-0.3	-13.2	-48.7	EXTENSIVE CLOUD COVER 90 PERCENT STRATOCUMULUS.
161/16:15:01	81 28.9	007 55.0	0425 001.1	031 350	32954 31697	2.2	0.1	-11.1	-48.0	
161/16:15:09	81 30.0	007 55.3	0425 001.5	031 352	32946 31707	2.2	0.5	-13.5	-48.9	ICE CONCENTRATION 95 PERCENT.
161/16:16:01	81 36.1	007 57.8	0424 002.1	029 359	32957 31670	2.3	-0.1	-17.9	-49.4	NUMEROUS LARGE MULTIYEAR FLOES.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
161/16:17:01	81 43.0	007 59.2	0423	002.1	030	357	32958	31711	2.2	-0.2	-16.4	-48.6	
161/16:18:01	81 50.0	008 01.4	0421	001.8	032	355	32967	31672	2.1	-0.5	-15.5	-49.5	
161/16:18:03	81 50.?	008 01.3	0421	001.8	031	355	32950	31683	2.1	-0.4	-16.1	-47.9	100 PERCENT STRATOCUMULUS.
161/16:18:27	81 52.3	008 07.?	0421	001.9	031	357	32952	31674	2.2	-0.2	-17.9	-49.1	LOW PRESSURE TO THE NORTH IS MOVING SOUTH CRUSHING THE CLOUDS.
161/16:18:59	81 56.8	008 03.6	0424	001.9	030	355	32966	31685	2.4	0.8	-16.9	-47.6	!!! END OF RUN 5 TIME 16.18.59 LAT 8156.8 N LON 0803.6 E FL 329
161/16:19:01	81 57.2	008 03.3	0424	002.2	029	356	32969	31673	2.5	8.5	-13.9	-48.4	
161/16:20:01	82 01.5	008 36.1	0452	097.4	017	011	33018	31796	2.8	36.7	-16.2	-49.3	
161/16:20:21	82 00.4	008 52.1	0466	132.0	017	347	32980	31743	2.7	35.2	-19.4	-47.0	NORTHEAST OF MIZ BOX IS 100 PERCENT STRATOCUMULUS CLOUD COVER.
161/16:21:01	81 55.8	009 08.4	0478	165.4	022	000	32893	31599	2.4	13.0	-21.4	-48.1	
161/16:22:01	81 47.8	009 10.8	0478	183.4	022	004	32940	31652	2.4	1.1	-18.4	-46.7	
161/16:22:05	81 47.2	009 10.5	0478	183.5	023	003	32948	31667	2.3	0.8	-18.7	-46.9	*** START OF RUN 6 TIME 16.22.05 LAT 8147.0 N LON 0910.5 E FL 329
161/16:23:01	81 39.8	009 07.4	0479	183.3	023	009	32962	31680	2.1	-0.3	-15.9	-49.1	
161/16:23:19	81 37.4	009 06.1	0480	183.1	022	011	32957	31685	2.3	-0.1	-15.9	-49.7	AIR - START MCI 5 3770 DATA RUN.
161/16:23:55	81 32.8	009 04.7	0481	182.9	022	007	32967	31667	2.2	0.0	-16.1	-49.8	AREA MANY MULTIYEAR FLOES, 95 PLUS PERCENT ICE CONCENTRATION.
161/16:24:01	81 32.0	009 03.9	0481	182.8	023	013	32962	31658	2.1	0.0	-15.6	-49.7	
161/16:25:01	81 23.9	009 01.1	0483	183.1	022	009	32963	31673	2.0	-0.4	-14.6	-48.0	
161/16:25:39	81 18.6	008 58.8	0484	183.3	020	003	32955	31659	2.1	-0.1	-9.0	-49.2	FLOE SIZE DECREASING 90 PERCENT ICE CONCENTRATION.
161/16:26:01	81 16.1	008 57.7	0484	183.6	021	356	32961	31696	2.0	0.0	-10.4	-49.8	
161/16:27:01	81 08.0	008 55.0	0485	183.3	022	001	32952	31685	2.0	-0.2	-7.5	-48.3	
161/16:27:15	81 05.9	008 53.6	0485	183.4	022	358	32948	31663	2.0	0.1	-7.0	-49.7	LARGE MULTIYEAR FLOE TO THE LEFT OF THE AIRCRAFT.
161/16:27:35	81 03.3	008 53.1	0484	183.5	021	358	32944	31652	2.1	0.0	-5.8	-49.7	CLOUD COVERAGE 60 PERCENT STRATOCUMULUS.
161/16:27:43	81 02.0	008 52.9	0484	183.5	023	359	32955	31647	2.2	-0.3	-6.2	-50.2	CLOUD COVERAGE DECREASING.
161/16:28:01	80 59.8	008 51.6	0483	183.4	022	358	32946	31666	2.2	-0.3	-7.2	-48.5	
161/16:29:01	80 51.9	008 49.0	0481	183.2	022	358	32963	31684	2.1	-0.1	-15.4	-49.3	
161/16:29:03	80 51.7	008 49.1	0481	183.2	023	359	32967	31668	2.2	0.0	-16.9	-48.9	TRANSITION INTO FRACTURED ICE ZONE.
161/16:30:01	80 43.9	008 46.5	0480	182.9	021	005	32954	31669	2.0	-0.2	-9.2	-51.0	
161/16:30:47	80 37.7	008 44.2	0480	182.9	023	006	32945	31652	2.4	-0.2	-11.8	-51.2	EASTERN SIDE OF MIZEX BOX THE FRACTURED ICE ZONE IS WIDER THAN ON THE WESTERN SI
161/16:31:01	80 35.9	008 43.5	0480	183.0	023	005	32962	31677	2.1	0.0	-14.7	-51.4	
161/16:31:39	80 30.8	008 42.1	0480	182.9	025	002	32960	31660	2.1	-0.1	-9.1	-49.4	LEAVING FRACTURED ICE ZONE INTO PURE STRUCTURES.
161/16:32:01	80 27.9	008 41.4	0480	183.0	024	359	32953	31673	2.1	0.0	-11.0	-49.2	
161/16:33:01	80 20.0	008 38.9	0480	182.7	027	002	32959	31664	2.2	-0.2	-6.7	-49.0	
161/16:33:39	80 15.1	008 37.5	0480	183.2	023	359	32962	31727	2.2	-0.5	-6.1	-49.2	PURE ORIENTATION IS STILL EASTWEST.
161/16:34:01	80 12.0	008 36.4	0480	183.0	026	359	32960	31693	2.1	-0.1	-1.9	-51.0	
161/16:35:01	80 04.0	008 33.9	0480	182.7	026	002	32962	31722	2.0	-0.2	-1.1	-49.6	
161/16:36:01	79 56.3	008 31.8	0481	182.6	025	003	32969	31711	2.0	0.0	-2.0	-49.1	
161/16:36:51	79 49.7	008 29.9	0482	182.7	025	002	32959	31744	2.1	-0.1	-2.9	-50.2	SEEM TO BE AT THE END OF THE PLUMES SEE MORE TO THE SOUTH OF US.
161/16:37:01	79 48.0	008 29.8	0482	182.7	025	003	32951	31717	2.0	0.2	-2.9	-50.1	
161/16:37:09	79 47.0	008 29.3	0482	182.7	026	005	32948	31763	2.2	0.2	-5.7	-50.7	!!! END OF RUN 6 TIME 16.37.10 LAT 7946.8 N LON 0829.4 E FL 329
161/16:37:49	79 42.1	008 32.9	0472	147.1	031	018	33056	31823	1.1	-22.0	-0.0	-49.6	HEADING TO W/P 8 MARE ISLAND.
161/16:38:01	79 40.5	008 37.7	0475	144.5	028	010	32911	31716	2.4	5.3	-1.3	-49.5	
161/16:39:01	79 33.8	008 59.3	0475	149.5	028	011	32959	31729	2.2	-0.5	-3.6	-49.5	
161/16:40:01	79 26.7	009 20.3	0476	149.2	026	013	32962	31734	2.1	-0.3	-4.6	-50.7	
161/16:40:41	79 22.1	009 33.6	0476	149.5	025	012	32955	31694	2.0	0.5	-11.8	-50.2	AIR - START 4 TH MARE DATA RUN .
161/16:41:01	79 19.8	009 40.5	0476	149.9	024	013	32955	31739	2.1	-0.2	-9.4	-51.6	
161/16:42:01	79 12.9	010 00.5	0476	149.6	030	010	32954	31707	2.2	-0.4	-13.1	-49.3	
161/16:43:01	79 05.7	010 20.4	0478	150.3	030	000	32958	31728	2.0	-0.1	-10.2	-51.6	
161/16:44:01	78 58.8	010 39.4	0478	150.1	029	013	32965	31724	2.0	-0.4	-6.0	-50.9	
161/16:45:01	78 51.8	010 58.2	0478	150.5	027	018	32963	31619	1.8	-0.2	-6.4	-51.1	
161/16:46:01	78 44.5	011 17.1	0478	151.0	026	017	32965	31709	1.8	0.1	-16.3	-49.1	
161/16:47:01	78 37.6	011 34.7	0478	151.6	026	012	32955	31716	2.1	-0.7	-17.1	-50.7	
161/16:48:01	78 30.5	011 52.4	0478	152.3	023	012	32955	31685	1.7	-0.9	-10.2	-50.6	
161/16:49:01	78 23.2	012 10.1	0479	152.2	025	009	32961	31678	1.9	-0.5	-11.7	-49.5	
161/16:50:01	78 16.1	012 27.3	0480	152.5	025	012	32974	31681	2.0	0.1	-3.7	-50.7	
161/16:51:01	78 09.0	012 43.7	0480	152.3	026	022	32969	31681	1.8	-0.2	-1.9	-51.8	
161/16:52:01	78 01.6	013 00.5	0481	153.0	028	011	32944	31645	1.8	0.1	-1.3	-53.2	
161/16:53:01	77 54.5	013 16.4	0481	153.1	028	012	32949	31643	1.9	0.0	-1.4	-48.7	
161/16:54:01	77 47.3	013 32.5	0481	153.4	023	019	32959	31635	1.9	-0.3	-2.1	-52.4	
161/16:54:57	77 40.4	013 46.8	0481	153.7	024	023	32944	31646	2.0	-0.5	-6.6	-53.1	AIR - MARE DATA RUN 16 48 CO ABORTED.
161/16:55:01	77 40.0	013 48.0	0481	153.7	025	017	32957	31647	2.0	-0.4	-7.3	-51.3	
161/16:56:01	77 32.7	014 03.2	0481	154.2	023	013	32969	31556	1.7	-0.2	-17.3	-48.0	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 5 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR
161/16:57:01	77 25.4	014 17.8	0479	154.2	019	030	32955	31360	1.9	-0.2	-11.3	-50.5
161/16:57:17	77 23.6	014 21.9	0479	154.7	018	015	32954	33826	1.7	-0.3	-9.3	-50.6
161/16:58:01	77 18.0	014 32.9	0478	154.9	019	017	32956	31372	1.7	0.0	-26.7	-49.9
161/16:59:01	77 10.8	014 46.9	0478	154.7	021	023	32960	31591	2.0	0.0	-21.4	-50.8

3.3 Second data flight—day 164—Evenes RT

All instruments were operational.

Pattern 'A' was flown rather than the planned pattern 'E' because of surface reports through Tromso indicated warm ice conditions north of the Polarqueen, and colder conditions to the East. Consequently, the pattern was situated so that according to the last reported position of the Polarqueen, she would be located on the westernmost leg of that pattern. (Unfortunately, our best efforts to contact Tromso the morning of the flight were to no avail, since all of the phone lines there were either busy or remained unanswered up to the time of takeoff.) When we finally contacted the Polarqueen directly en route, the current position she reported was such that she would have fallen just outside our mosaic to the west. Luckily, due to a combination of errors, she fell directly underneath us on the last leg of the mosaic pattern. The pattern was flown from east to west, our normal mode of operation.

This time, the ESMR mosaic prepared on board showed that the ice was below freezing in the southern part of the MIZEX area, but mostly towards the west rather than towards the east as had been predicted by Tromso. In this area, the multiyear floes could easily be distinguished on the ESMR mosaic.

Initial evaluation of the data indicate a very successful mission, indeed, since all of the microwave equipment on board appeared to be operating properly.

Post-flight comparision with Nimbus-7 SMMR data caused us some momentary regret at not pursuing the long-track, four-leg mosaic as originally planned, since there was indeed cold ice signature shown on the satellite image north of the six-leg pattern that was flown. Indeed, the warm spot at the north of our pattern also clearly showed up on the SMMR image. On the other hand, the varied data that were acquired in an area where more surface information is available more than compensated for our momentary regrets.

Upon landing, the aircraft suffered damage to her left-wing center spoiler, so was out of commission until late on Sunday, June 17.

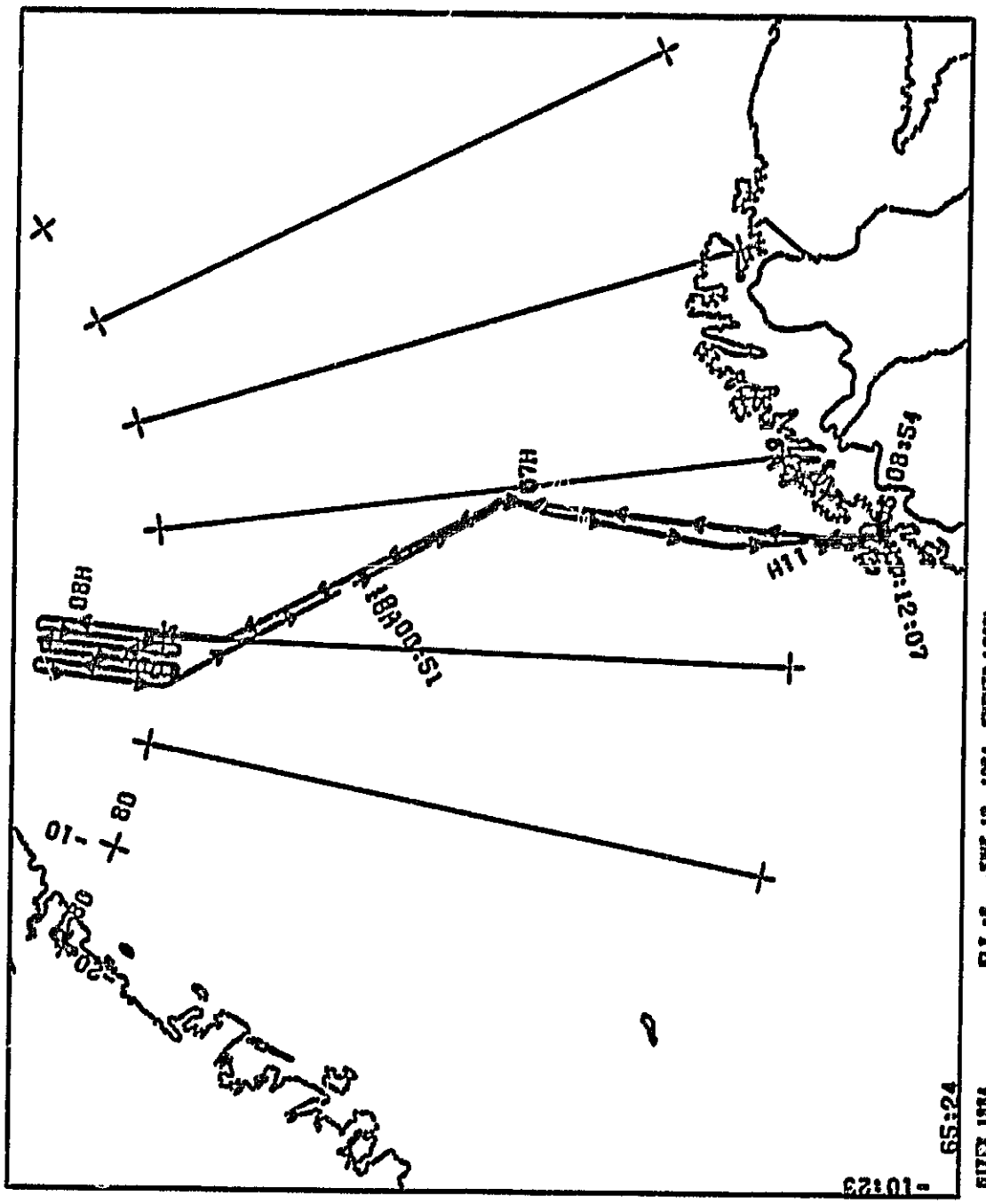


Figure 6. Flight tracks: Evens RT 6/12

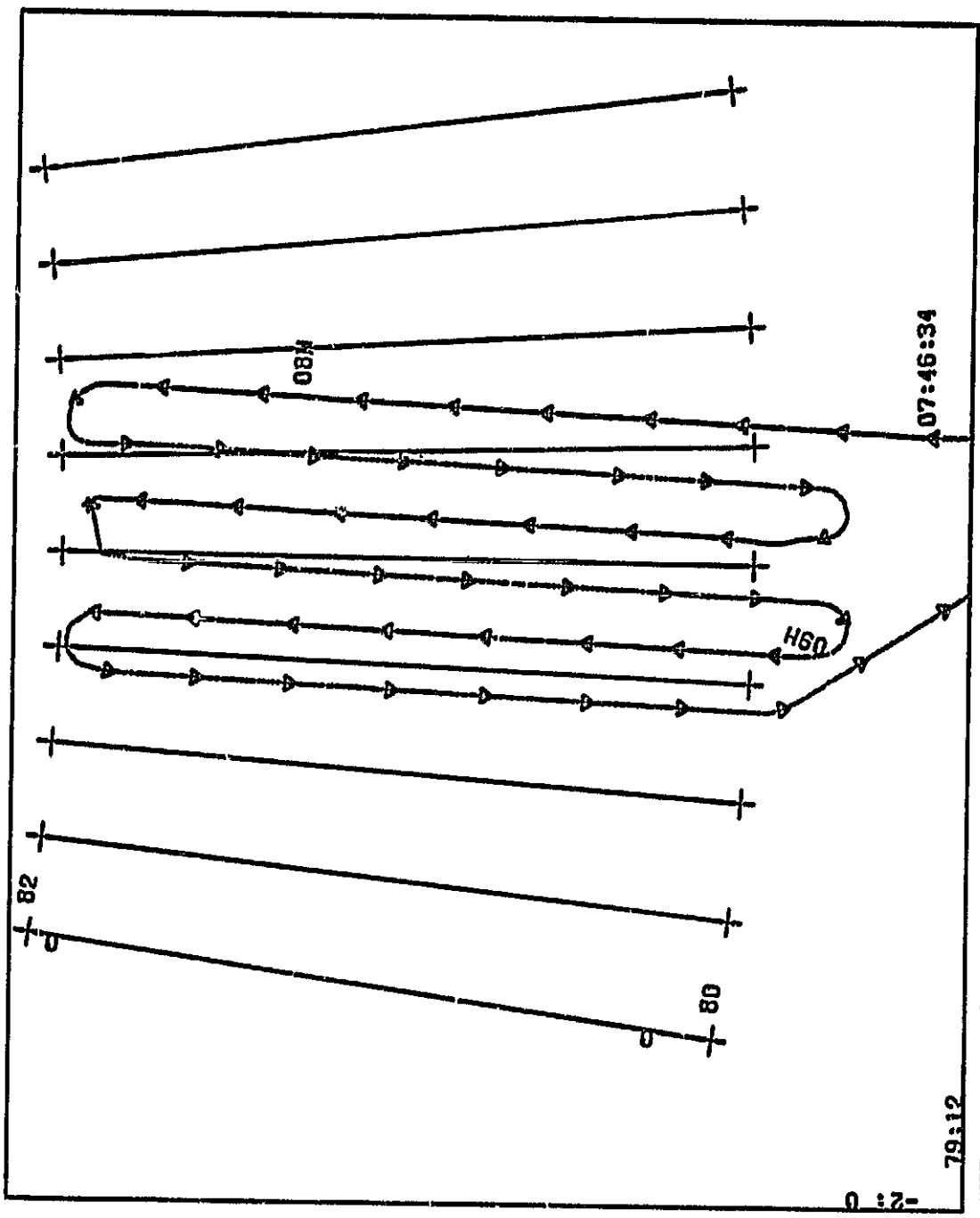


Figure 7. Mosaic pattern: 6/12

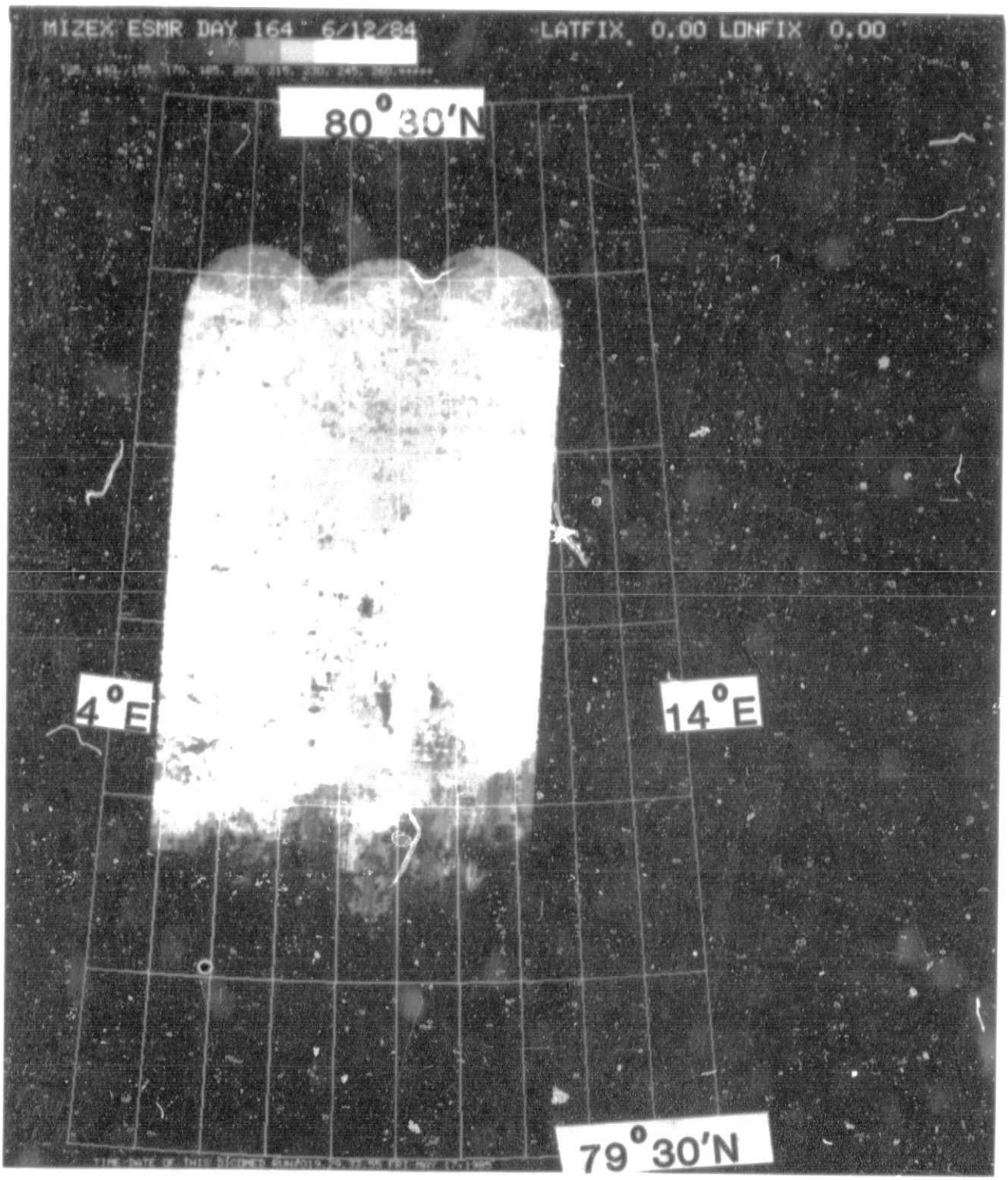


Figure 8. ESMR mosaic: 6/12

YEAR 1984 ADAS FLIGHT LOG --- FLIGHT NO. 6 --- HIZEX

----TIME----	--LAT--	--LONG--	GRD TRUE SPD HEAD	-WIND-- SPD DIR	-ALTITUDE-- PRES RADAR	PITCH	ROLL	--TEMP-- IR	AIR	
164/05:47:15	00	00.0 000	000.0	000 000	56 574	-0.8	-1.6	34.8	5.7	
164/05:48:01	68	29.5 016	40.5 0000	000.5 119	000 68 571	-0.9	-1.6	31.4	6.6	
164/05:49:01	68	29.5 016	40.5 0000	000.5 118	000 68 571	-0.5	-1.6	27.5	4.8	
164/05:50:01	68	29.5 016	40.5 0000	000.5 119	000 67 573	-0.7	-1.6	24.0	4.4	
164/05:51:01	68	29.5 016	40.5 0000	000.5 119	000 65 572	-0.9	-1.6	21.0	6.6	
164/05:52:01	68	29.5 016	40.5 0000	000.5 118	000 61 577	-0.7	-1.6	18.5	4.6	
164/05:53:01	68	29.5 016	40.5 0000	000.5 118	000 67 571	-0.7	-1.6	16.0	5.0	
164/05:54:01	68	29.5 016	40.5 0000	000.5 119	000 69 575	-0.8	-1.4	14.2	5.8	
164/05:55:01	68	29.5 016	40.5 0000	000.5 119	000 67 576	-0.8	-1.6	12.2	7.3	
164/05:56:01	68	29.5 016	40.5 0000	000.6 116	000 70 573	-0.6	-1.6	11.6	6.6	
164/05:57:01	68	29.5 016	40.5 0000	000.5 118	000 66 574	-0.7	-1.6	11.1	5.7	
164/05:58:01	68	29.5 016	40.7 0007	346.2 112	346 65 574	-0.9	-1.5	11.2	5.7	
164/05:59:01	68	29.5 016	40.5 0009	285.7 108	282 71 571	-0.1	-0.3	11.4	3.3	
164/06:00:01	68	29.4 016	40.3 0021	357.9 095	357 69 577	-1.0	-0.6	11.2	3.5	
164/06:01:01	68	30.1 016	40.3 0021	357.8 095	357 67 574	-0.5	0.4	11.5	2.4	
164/06:02:01	68	30.4 016	40.4 0002	199.8 117	201 72 574	-0.8	-1.5	11.9	3.8	
164/06:03:01	68	30.4 016	40.4 0025	180.2 094	180 83 572	-0.9	-0.7	11.0	2.1	
164/06:04:01	68	28.5 016	40.5 0175	180.0 001	316 757 572	10.4	0.4	11.6	1.5	
164/06:04:51	68	26.3 016	36.8 0244	269.1 086	146 1954 572	10.1	11.5	11.2	1.2	YAKE OFF TIMEN 06 03 35
164/06:04:55	68	26.4 016	36.2 0246	270.9 083	166 2124 573	10.2	2.1	11.1	-0.4	JULIAN DAY 164
164/06:04:59	68	26.4 016	35.4 0247	272.1 087	176 2304 572	10.7	1.1	11.2	0.0	JUNE 12, 1984
164/06:05:01	68	26.4 016	35.3 0248	272.5 086	195 2401 577	10.5	-0.4	11.3	-0.5	FLIGHT 6
164/06:05:05	68	26.4 016	34.3 0248	272.4 087	210 2613 2686	12.0	-0.6	11.3	-0.4	EVENES/EVENES.
164/06:05:23	68	26.4 016	29.8 0246	271.5 011	226 3586 3460	10.5	-17.4	-0.8	-2.8	GEORGIA TECH - ARMS ON AND TAKING DATA, MINOR PHASE DISPLAY PROBLEM.
164/06:05:31	68	26.4 016	29.4 0246	261.9 015	234 3979 3838	10.7	-22.0	-0.2	-3.0	05 58 10 ON -LINE.
164/06:06:01	68	25.5 016	24.5 0255	245.7 010	267 5222 5062	11.1	20.1	-1.7	-5.8	NADIR 3 OPEN.
164/06:06:13	68	25.3 016	22.4 0251	258.4 020	261 5934 5742	11.5	0.8	-2.2	-5.6	NADIR 1 OPEN 05 05 55.
164/06:06:23	68	25.2 016	20.3 0248	259.7 021	257 6474 6242	8.9	3.6	-2.7	-7.5	A/P 1 68-16 16-10E
164/06:06:33	68	25.1 016	18.8 0253	261.6 019	254 6845 6619	8.6	-8.1	-2.8	-7.7	A/P 2 69-11.1 16-00.5E
164/06:06:41	68	24.8 016	17.0 0256	255.8 018	248 7165 6919	8.7	-10.4	-3.2	-8.4	
164/06:06:51	68	24.8 016	15.2 0259	250.7 019	241 7568 7310	8.7	-9.9	-4.2	-8.0	A/P 3 69-17.2 16-00.1E
164/06:06:59	68	24.5 016	13.8 0262	246.9 017	252 7889 7632	8.6	-9.4	-4.4	-10.8	A/P 4 74-30.0 19-15.0E
164/06:07:01	68	24.5 016	13.2 0262	246.6 018	259 7970 7751	8.6	-0.7	-4.6	-10.4	
164/06:07:09	68	24.3 016	12.0 0264	248.4 018	262 8290 8075	8.5	7.8	-4.9	-12.2	A/P 5 79-00.0 10-00.0E
164/06:07:29	68	23.8 016	08.2 0265	252.8 022	254 9078 8843	8.3	-0.4	-5.8	-12.6	A/P 6 79-52.5 10-10-17.4
164/06:07:41	68	23.4 016	06.0 0260	252.5 023	251 9516 9265	8.7	11.4	-7.2	-13.9	A/P 6 79-52.5 10-17.5E
164/06:08:01	68	23.4 016	02.1 0260	257.1 023	272 10014 9750	5.4	29.0	-10.6	-14.8	
164/06:08:09	68	23.8 016	00.6 0266	305.1 019	275 10020 9721	4.7	28.9	-11.6	-14.5	A/P 7 81-37.9 11-16.3E
164/06:08:19	68	24.3 015	59.3 0277	322.6 017	264 10025 9756	4.4	28.9	-11.3	-12.1	A/P 8 81-37.9 10-07.5E
164/06:08:31	68	25.1 015	58.2 0293	348.2 019	253 10017 9575	4.4	28.6	-11.8	-14.0	A/P 1' 79-53.2 9-20.6E
164/06:08:43	68	26.0 015	58.2 0309	012.9 021	247 10021 8342	4.0	28.3	-11.6	-13.1	A/P 2' 79-53.8 8-25.5E
164/06:08:59	68	27.3 015	59.9 0321	023.8 029	258 9816 9533	3.1	-5.0	-8.9	-13.8	A/P 3' 81-38.6 8-59.4E
164/06:09:01	68	27.4 016	00.1 0322	023.0 031	259 9964 9594	3.0	-4.6	-8.3	-13.5	
164/06:09:15	68	28.5 016	01.9 0326	025.0 030	257 9942 8878	3.5	5.8	-7.4	-12.9	A/P 4' 81-39.1 7-50.6E
164/06:09:37	68	30.1 016	04.7 0324	030.1 027	266 9916 8738	3.6	0.5	-8.6	-13.4	GEORGIA TECH IS HAVING PROBLEMS AND WORKING ON IT DOWNSTAIRS - DOWN RIGHT NOW.
164/06:09:49	68	31.2 016	06.4 0312	025.0 029	272 9952 9671	4.4	-25.0	-7.0	-13.0	A/P 5' 79-54.2 7-26.5E
164/06:10:01	68	32.1 016	07.3 0294	005.3 032	266 9930 9579	4.2	-16.2	-9.3	-13.6	A/P 6' 79-54.4 6-29.5E
164/06:10:19	68	33.5 016	07.6 0274	351.7 031	263 9804 8748	5.1	-6.5	-7.3	-14.3	A/P 7' 81-39.4 6-41.7E
164/06:10:41	68	35.0 016	07.1 0264	345.7 029	258 9006 8218	5.6	-0.7	-7.2	-14.1	A/P 8' 81-39.5 5-32.0E
164/06:10:53	68	36.1 016	06.7 0268	345.2 030	256 9938 8353	5.4	0.7	-6.5	-15.3	A/P 1" 79-54.5 5-32.6E
164/06:11:01	68	36.6 016	06.6 0271	345.4 031	263 9960 8646	4.6	2.3	-6.9	-14.9	
164/06:11:03	68	36.7 016	06.4 0272	345.7 030	261 9958 8364	4.6	0.8	-7.5	-14.3	A/P 2" 74-30 19-15E BEAR ISLAND
164/06:11:19	68	38.0 016	06.0 0281	347.9 028	255 9969 7613	4.3	1.9	-7.4	-15.2	A/P 3" 73-02.1 15-52.7E IP
164/06:11:29	68	38.8 016	05.7 0286	348.0 031	258 9971 9194	4.1	1.1	-7.2	-14.5	A/P 4" 69-17.2 16-00.1E
164/06:11:41	68	39.7 016	05.6 0290	348.0 034	257 9831 9103	3.6	0.6	-4.9	-14.0	A/P 5" 69-11.1 16-00.5E
164/06:11:51	68	40.5 016	05.4 0295	348.3 032	262 9885 8679	3.6	7.5	-6.1	-12.9	A/P 9 68-29.5 16-40.7E.
164/06:12:01	68	41.3 016	05.5 0303	354.5 032	262 9967 7837	3.9	6.1	-5.1	-13.3	
164/06:12:07	68	41.8 016	05.5 0305	357.3 029	261 9973 7031	3.4	7.7	-5.2	-13.7	100 PERCENT STRATOCUMULUS.
164/06:13:01	68	46.4 016	05.6 0302	321.4 029	258 9998 9044	2.9	-25.1	-2.5	-13.9	
164/06:13:35	68	48.8 016	01.1 0320	338.0 031	263 9993 9646	2.5	25.1	-3.7	-15.4	APPROACHING A BREAK IN THE CLOUD.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
164/06:14:01	68 51.0	016 00.1	0336	355.3	034	259	9926	8966	2.8	11.9	6.3	-14.2	
164/06:14:29	68 53.7	016 01.5	0352	012.4	037	264	9950	9619	2.4	5.1	6.9	-14.6	06 14 21 CAMERAS ON
164/06:15:01	68 56.6	016 02.9	0345	350.8	038	260	9952	9603	2.0	-6.4	8.0	-14.9	
164/06:15:15	68 58.0	016 02.7	0345	348.5	031	260	9947	9608	2.2	-1.0	8.0	-13.4	06 14 21 CAMERAS ON.
164/06:15:19	68 58.4	016 02.6	0345	348.3	031	263	9950	9595	2.2	0.2	7.8	-13.1	1/10 CUMULUS.
164/06:15:41	69 00.5	016 01.9	0338	350.6	023	259	9399	9575	2.9	2.4	6.6	-12.9	*** START OF RUN 1 TIME 06.15.40 LAT 6900.5 N LON 01601.9 E FL 99
164/06:16:01	69 02.3	016 01.4	0322	352.2	026	271	9892	9572	3.2	1.7	7.3	-15.3	
164/06:16:15	69 03.6	016 01.4	0308	353.3	026	268	9900	9605	3.8	0.8	7.1	-15.6	T
164/06:16:49	69 06.3	016 01.2	0288	354.5	021	267	9925	9628	4.1	-0.4	5.9	-14.9	NO WHITE CAPS, BUT SEE A WELL DEFINED SHELL.
164/06:17:01	69 07.1	016 01.2	0285	354.4	022	265	9921	9614	4.5	0.2	-2.6	-14.1	06 116 40 ESMR IMAGE.
164/06:17:57	69 11.7	016 00.9	0294	354.8	020	261	9955	9523	3.8	0.5	-3.1	-13.5	5/10 CUMULUS.
164/06:18:01	69 12.0	016 00.8	0294	354.9	020	258	9958	9487	3.9	0.3	-2.8	-13.4	
164/06:19:01	69 17.0	016 00.7	0296	354.5	023	269	9944	8562	3.8	0.3	-1.7	-13.4	
164/06:19:55	69 21.4	016 00.5	0298	354.2	024	274	9941	9629	3.8	0.4	-4.1	-13.6	WELL DEFINED SHELL.
164/06:20:01	69 22.0	016 00.2	0297	354.3	024	276	9944	9631	3.7	0.2	-4.1	-14.7	SCAN MODE 55 - ESMR RETURNED.
164/06:20:59	69 26.6	016 00.1	0298	354.3	024	267	9938	9619	3.7	0.5	3.0	-15.3	!!! END OF RUN 1 TIME 06.21.00 LAT 6926.7 N LON 01600.0 E FL 99
164/06:21:01	69 26.7	016 00.0	0298	354.4	024	269	9932	9610	4.0	4.7	-0.7	-15.0	
164/06:21:19	69 28.4	016 00.1	0305	003.6	024	264	9964	9626	3.5	6.3	0.0	-14.6	CLIMBING.
164/06:21:57	69 31.8	016 02.5	0356	009.3	025	267	10222	9829	5.2	-2.0	2.9	-15.1	END OF RUN THERE WERE WELL DEVELOPED SHELL.
164/06:22:01	69 32.2	016 02.7	0357	008.9	026	269	10359	9961	4.8	-2.0	1.1	-15.4	
164/06:22:03	69 32.3	016 02.8	0358	008.7	026	269	10404	10023	5.1	-1.8	-2.8	-16.0	06 21 24 CAMERA OFF.
164/06:22:25	69 34.5	016 04.1	0354	007.0	026	278	11510	11053	7.0	-0.6	-7.1	-16.2	10/10 STRATOCUMULUS , AND SOME ALTOSTRATUS.
164/06:22:55	69 37.4	016 05.5	0349	005.4	029	283	12961	12491	6.9	-0.7	-8.4	-17.4	MOST - 90 PERCENT OF PHOTOS TAKEN WERE CLOUD COVER.
164/06:23:01	69 37.9	016 06.0	0348	005.3	030	286	13250	12786	7.0	-0.6	-7.6	-18.4	
164/06:23:09	69 38.9	016 06.4	0346	004.9	031	289	13647	13141	6.9	-0.6	-8.0	-21.1	WE LEFT CLOUDS AT 13,600FT.
164/06:24:01	69 43.6	016 08.6	0356	004.8	029	292	15476	14907	5.5	-0.1	-7.9	-23.3	
164/06:25:01	69 49.6	016 11.8	0364	006.9	029	296	17437	16804	5.3	-0.8	-15.0	-28.4	
164/06:26:01	69 55.5	016 14.9	0367	004.4	031	292	19270	18571	5.0	-0.8	-11.0	-30.5	
164/06:27:01	70 01.5	016 17.9	0377	004.4	040	299	20726	19961	4.5	-0.1	-13.2	-33.5	
164/06:28:01	70 08.0	016 21.1	0384	004.4	042	303	22188	21337	4.5	-0.3	-10.7	-39.0	
164/06:29:01	70 14.2	016 24.4	0388	003.9	046	301	23617	22680	4.3	-1.1	-12.3	-41.9	
164/06:30:01	70 20.5	016 27.5	0398	003.8	046	301	24757	23792	3.8	0.3	-11.2	-42.7	
164/06:31:01	70 27.1	016 30.9	0406	004.6	046	306	25942	24901	3.8	0.1	-14.5	-45.7	
164/06:32:01	70 33.8	016 34.6	0410	005.5	042	309	27103	26019	3.8	-0.4	-15.0	-49.0	
164/06:33:01	70 40.5	016 38.2	0421	006.6	033	308	27881	26739	3.1	-0.1	-13.7	-47.8	
164/06:34:01	70 47.7	016 42.1	0431	006.7	031	305	28564	27391	3.1	0.2	-15.8	-49.2	
164/06:35:01	70 54.7	016 46.2	0436	006.7	031	305	29312	28105	3.2	0.3	-15.7	-49.3	
164/06:36:01	71 01.8	016 50.0	0442	007.1	029	305	29934	28697	3.1	0.0	-15.8	-47.4	
164/06:37:01	71 09.1	016 54.4	0445	007.3	031	311	30505	29332	3.3	-0.4	-13.9	-47.6	
164/06:37:51	71 15.2	016 57.8	0442	007.6	026	310	31234	29969	3.2	-0.5	-11.4	-47.8	RUNNING - OFF REAL TIME MODE - DIRECTLY TO TAPE DOWNSTAIRS - GEORGIA TECH.
164/06:37:59	71 16.1	016 58.4	0442	007.6	026	308	31315	30080	3.2	0.0	-8.6	-46.3	CABLE DISCONNECTED UPSTAIRS.
164/06:38:01	71 16.3	016 58.6	0442	007.7	027	310	31336	30100	3.3	0.0	-8.8	-47.9	
164/06:38:03	71 16.6	016 58.7	0442	007.7	026	310	31358	30114	3.2	-0.2	-8.9	-47.2	GEORGIA TECH.
164/06:38:29	71 19.7	017 00.6	0442	007.7	024	305	31612	30396	3.8	-0.5	-10.8	-47.1	ON AT 06 31 00 - RAN 10 MINUTES BEFORE TAKEOFF AND WERE DOWN AT T/O.
164/06:39:01	71 23.4	017 02.7	0441	007.6	025	303	31918	30693	3.4	0.3	-15.8	-47.4	
164/06:40:01	71 30.8	017 07.1	0442	007.9	024	305	32383	31145	3.5	0.5	-17.1	-45.9	
164/06:41:01	71 37.9	017 11.5	0441	008.6	021	314	32821	31594	3.5	-0.3	-17.5	-45.2	
164/06:42:01	71 45.1	017 15.8	0445	008.9	019	311	32993	31774	2.7	0.0	-16.5	-45.9	
164/06:43:01	71 52.6	017 20.4	0454	008.8	019	311	32998	31744	2.5	-0.2	-11.3	-46.8	
164/06:44:01	71 59.9	017 25.0	0461	009.6	019	323	32975	31696	2.3	0.5	1.0	-45.6	
164/06:45:01	72 07.4	017 30.0	0464	009.2	021	320	32976	31678	2.2	-3.9	2.8	-45.5	
164/06:46:01	72 15.1	017 34.6	0463	009.1	020	311	32980	31697	2.3	0.0	-13.5	-46.7	
164/06:47:01	72 22.7	017 39.6	0464	009.3	021	309	32973	31663	2.4	-0.3	-8.5	-44.2	
164/06:48:01	72 30.1	017 44.6	0464	009.0	020	309	32974	31656	2.3	-0.5	-9.1	-45.2	
164/06:48:05	72 30.7	017 45.4	0464	008.8	020	311	32966	31648	2.3	-0.5	-11.0	-45.4	9/10 STRATOCUMULUS AND MEDIUM SHELL.
164/06:49:01	72 37.9	017 49.8	0465	009.3	021	315	32979	31645	2.4	0.1	-7.7	-45.6	
164/06:50:01	72 45.2	017 54.7	0466	009.4	021	317	32958	31619	2.4	-0.4	-15.3	-45.6	
164/06:51:01	72 52.9	018 00.0	0466	009.6	020	317	32967	31622	2.2	0.0	-6.8	-44.5	
164/06:52:01	73 00.5	018 05.5	0464	009.7	022	320	32967	31642	2.4	-0.3	-3.9	-45.1	
164/06:53:01	73 08.1	018 10.8	0463	009.9	021	323	32969	31614	2.3	1.0	-10.5	-46.2	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
164/06:54:01	73 15.5	018 16.3	0461	009.7	022	318	32975	31638	2.4	-0.7	-11.5	-44.2	
164/06:55:01	73 23.1	018 21.8	0461	009.8	022	320	32976	31642	2.2	0.1	-16.1	-45.4	
164/06:55:23	73 25.7	018 23.9	0461	009.7	023	320	32969	31635	2.3	-0.2	-14.4	-46.3	100 PERCENT STRATOCUMULUS.
164/06:56:01	73 30.4	018 27.2	0461	010.2	021	321	32974	31621	2.4	-0.1	-11.9	-45.0	
164/06:57:01	73 38.0	018 33.2	0462	010.6	019	321	32976	31627	2.4	-0.4	-15.0	-46.6	
164/06:58:01	73 45.7	018 38.7	0462	010.6	020	332	32979	31625	2.1	-0.5	-13.5	-45.1	
164/06:59:01	73 53.0	018 44.8	0462	010.7	018	328	32989	31607	2.2	-0.1	-11.9	-44.4	
164/07:00:01	74 00.4	018 50.5	0462	010.8	020	327	32971	31582	2.2	0.2	-2.7	-44.5	
164/07:00:53	74 06.9	018 55.8	0461	010.9	020	330	32975	31576	2.3	-0.1	-3.2	-44.7	50 PERCENT STRATOCUMULUS AND A WELL DEVELOPED SHELL.
164/07:01:01	74 08.0	018 56.6	0461	010.8	022	329	32930	31571	2.2	-0.2	-3.0	-45.6	
164/07:02:01	74 15.5	019 02.8	0461	010.9	021	329	32969	31558	2.2	0.1	-3.4	-44.4	
164/07:02:57	74 22.3	019 08.3	0461	011.3	019	333	32974	31673	2.3	-0.1	5.8	-46.2	COMPLETED PRINT CHECK LIST AT ADDAS - ALL IS GOING FINE.
164/07:03:01	74 22.9	019 08.9	0461	011.2	020	333	32975	31528	2.3	-0.2	2.2	-45.9	
164/07:03:09	74 24.0	019 10.0	0461	011.1	021	329	32963	31442	2.1	-0.2	3.3	-45.7	30 PERCENT STRATOCUMULUS.
164/07:04:01	74 30.5	019 15.4	0461	010.9	022	324	32976	31562	2.4	-0.4	-2.3	-44.4	
164/07:04:55	74 37.1	019 15.2	0450	327.3	021	285	33029	31653	2.1	-27.7	-2.4	-44.0	07 03 59 MARE ISLAND.
164/07:05:01	74 37.6	019 13.9	0451	321.4	018	293	32987	31594	1.9	-15.0	-1.8	-44.7	
164/07:05:05	74 38.0	019 12.7	0451	318.6	016	295	32963	31556	2.1	-7.0	-1.6	-46.4	CORRECTION : GEAR ISLAND.
164/07:05:53	74 42.9	018 58.8	0453	329.9	013	305	32952	31558	2.4	7.4	-1.2	-44.7	FROM THE CLOUD IT LOOKS LIKE LOW PRESSURE AREA IS NORTHEAST OF AIRCRAFT.
164/07:05:59	74 43.4	018 57.5	0454	331.9	015	311	32948	31558	2.5	6.5	-0.8	-46.9	0 CLOUD COVER.
164/07:06:01	74 43.6	018 57.1	0454	332.4	016	308	32952	31570	2.6	6.2	-0.5	-45.7	
164/07:06:05	74 44.2	018 56.1	0454	333.3	017	312	32961	31572	2.4	4.9	-0.5	-45.4	WELL DEVELOPED SHELL.
164/07:07:01	74 50.7	018 45.6	0457	337.4	017	311	32966	31560	2.3	0.1	-0.3	-45.9	
164/07:08:01	74 57.8	018 35.2	0460	337.9	019	315	32976	31550	2.2	-0.8	-2.6	-45.4	
164/07:09:01	75 04.8	018 24.3	0462	337.7	019	321	32974	31554	2.1	-0.2	-2.5	-44.3	
164/07:10:01	75 12.1	018 13.0	0464	337.7	016	325	32977	31560	2.2	0.0	-2.6	-46.1	
164/07:11:01	75 19.1	018 01.8	0463	337.3	021	315	32977	31525	2.1	-0.1	-2.7	-45.7	
164/07:12:01	75 26.1	017 50.3	0462	337.1	018	317	32966	31513	2.2	-0.1	-0.9	-45.5	
164/07:13:01	75 33.5	017 38.7	0461	336.7	020	311	32975	31508	2.1	0.2	-1.6	-46.1	
164/07:14:01	75 40.4	017 26.8	0460	336.6	018	311	32969	31515	2.2	0.0	-2.4	-46.0	
164/07:14:15	75 42.1	017 24.5	0459	336.4	017	310	32971	31519	2.2	-0.5	-2.3	-46.0	MARE DATA RUN AS HE APPROACH MIZ DATA ON TURNS.
164/07:14:35	75 44.4	017 20.4	0459	336.3	014	301	32968	31532	2.4	-0.1	-2.3	-47.3	DOD - LORAN C OPERATE ONLY ON EXTENDED RANGE.
164/07:15:01	75 47.5	017 15.4	0459	336.1	01o	306	32978	31530	2.2	0.1	-1.8	-45.0	
164/07:16:01	75 54.5	017 03.2	0459	335.8	018	301	32963	31527	2.3	0.-	-0.8	-44.3	
164/07:17:01	76 01.5	016 50.6	0458	335.4	019	298	32978	31530	2.2	-0.1	0.6	-45.3	
164/07:18:01	76 08.4	016 38.4	0458	335.5	018	304	32969	31524	2.3	-0.2	-2.8	-46.6	
164/07:18:35	76 12.5	016 31.4	0458	335.5	018	303	32966	31508	2.3	0.0	-2.4	-45.1	ICE IS BEING ADVECTED AROUND SOUTHERN TIP OF SOELVARD.
164/07:19:01	76 15.6	016 25.5	0458	335.3	017	303	32957	31505	2.3	0.3	-2.9	-43.9	
164/07:20:01	76 22.5	016 12.9	0459	335.3	016	302	32972	31501	2.4	-0.1	-2.7	-44.8	
134/07:20:05	76 23.0	016 12.1	0458	335.3	016	302	32984	31516	2.2	-0.1	-2.9	-45.5	10 PERCENT STRATOCUMULUS.
164/07:21:01	76 29.4	015 59.9	0459	334.4	020	299	32974	31511	2.2	0.0	-2.3	-44.4	
164/07:22:01	76 36.3	015 46.4	0459	334.2	023	298	32981	31498	2.1	-0.2	-2.1	-43.3	
164/07:23:01	76 43.4	015 32.9	0458	334.0	023	300	32972	31496	2.0	0.0	-1.5	-43.6	
164/07:23:03	76 43.5	015 32.5	0458	334.0	022	297	32972	31489	2.0	-0.4	-1.3	-43.8	LEAVING CLEAR AREA - 10/10 STRATOCUMULUS.
164/07:24:01	76 50.2	015 19.3	0457	333.8	022	300	32973	31473	2.1	-0.3	-5.7	-44.9	
164/07:25:01	76 57.2	015 04.7	0457	333.5	025	296	32972	31483	2.2	-0.4	-7.6	-44.6	
164/07:26:01	77 04.1	014 50.9	0456	333.4	022	299	32972	31474	2.2	0.3	-8.8	-43.7	
164/07:26:13	77 05.4	014 47.7	0456	333.3	021	295	32964	31478	2.2	-0.4	-8.7	-42.6	NOW - CIRRUS CLOUDS.
164/07:26:21	77 06.2	014 46.1	0456	333.3	021	291	32962	31465	2.4	0.2	-8.3	-44.1	10/10 STRATOCUMULUS.
164/07:27:01	77 10.8	014 36.3	0456	332.9	021	292	32976	31465	2.4	-0.7	-9.9	-43.8	
164/07:28:01	77 17.9	014 21.2	0457	332.6	022	291	32966	31409	2.2	0.0	-11.9	-44.3	
164/07:28:37	77 21.9	014 12.8	0457	332.6	023	291	32976	31381	2.2	-0.3	-9.8	-45.2	ALTOSTRATOS STRATOS UNDER CIRRUS, CLASSIC LOW PRESSURE SYSTEM.
164/07:29:01	77 24.6	014 06.8	0457	332.2	023	286	32983	31565	2.2	0.1	-14.0	-41.9	
164/07:29:59	77 31.2	013 52.1	0458	332.3	020	291	32975	31487	2.2	0.0	-16.6	-42.9	INS SETTING.
164/07:30:01	77 31.3	013 51.3	0458	332.3	020	287	32972	31479	2.2	0.2	-16.7	-43.2	
164/07:30:21	77 33.9	013 45.7	0459	332.4	019	292	32968	31473	2.3	0.1	-16.0	-44.6	LORAN 77 07.3N LON 13 55.4E.
164/07:30:41	77 36.1	013 40.9	0460	332.5	017	293	32965	31492	2.3	0.1	-14.4	-45.1	77 31.3N 13 51.3E - INS.
164/07:31:01	77 38.3	013 35.3	0460	332.4	015	287	32965	31481	2.2	-0.4	-15.6	-43.8	
164/07:31:37	77 42.4	013 25.9	0461	332.0	017	285	32979	31477	2.2	0.0	-13.1	-44.4	MARGINAL ICE ZONE WEATHER CONDITIONS FOR THE SUMMER.
164/07:32:01	77 45.1	013 19.5	0461	331.8	017	282	32974	31465	2.3	0.1	-10.3	-45.2	

YEAR 1984 AODAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
164/07:32:41	77 49.6	013 08.9	0463	331.7	016	280	32956	31457	2.3	-0.2	-11.6	-41.5	1/10 CIRRUS, 10/10 ALTOSTRATUS AND STRATOCUMULUS.
164/07:33:01	77 51.8	013 03.6	0463	331.3	019	274	32962	31459	2.2	-0.2	-9.1	-43.1	
164/07:34:01	77 58.9	012 46.3	0463	331.0	017	272	32975	31465	2.2	0.2	-13.2	-43.3	
164/07:35:01	78 05.7	012 29.5	0464	330.9	017	272	32980	31460	2.3	-0.2	-13.2	-42.4	
164/07:36:01	78 12.4	012 12.9	0464	330.8	017	281	32973	31441	2.2	-0.2	-12.6	-42.3	
164/07:36:19	78 14.4	012 07.3	0464	330.6	017	276	32983	31430	2.2	0.2	-9.9	-42.7	APPROACH NORTH END - CLOUD DIMINISH - CAN NOT SEE THE SURFACE.
164/07:36:31	78 16.1	012 03.4	0464	330.5	018	275	32973	31366	2.1	-0.1	-12.3	-41.5	SVELVARD - NORTH END.
164/07:37:01	78 19.5	011 54.5	0465	330.5	016	279	32965	31369	2.2	-0.1	-13.8	-41.8	
164/07:37:37	78 23.4	011 43.5	0466	330.2	016	274	32972	31357	2.2	0.0	-10.1	-42.1	GEORGIA TECH - JUST NOW GOT ON TIME CODE 07 36 00.
164/07:37:43	78 24.0	011 42.3	0466	330.2	016	279	32966	31330	2.2	-0.2	-8.5	-42.9	HAVE BEEN RUNNING ON INTERNAL TIME.
164/07:38:01	78 26.1	011 36.6	0466	330.4	015	285	32984	31914	2.2	0.1	-6.3	-43.9	
164/07:38:11	78 27.4	011 33.2	0466	330.5	013	281	32978	30111	2.0	0.1	-6.2	-42.5	CLOUDS RAPIDLY CLEARING.
164/07:39:01	78 32.8	011 18.2	0468	329.8	015	274	32972	31640	2.2	-0.1	-1.7	-43.5	
164/07:40:01	78 39.8	010 59.1	0469	329.7	013	269	32972	30091	2.2	0.2	-8.2	-41.7	
164/07:40:55	78 46.1	010 41.8	0469	329.4	014	265	32974	31458	2.2	0.0	-11.2	-42.1	78 42.5N 10 51.7E INS.
164/07:41:01	78 46.6	010 39.8	0469	329.3	014	265	32971	32140	1.8	0.1	-8.4	-41.5	
164/07:41:11	78 47.8	010 36.3	0470	329.3	014	268	32961	31499	2.2	-0.2	-8.1	-42.1	78 07.7N LON 10 59.0E APPROX 07 40 00 - LORAN C.
164/07:42:01	78 53.3	010 20.4	0471	328.9	014	259	32967	31409	2.1	0.1	-12.3	-41.7	
164/07:42:11	78 54.5	010 16.8	0471	328.8	014	268	32973	31417	2.1	-0.1	-9.1	-43.1	NADIR 4 OPEN.
164/07:42:45	78 58.5	010 05.5	0473	336.9	009	269	32977	31414	2.2	20.5	-11.1	-39.9	10/10 STRATOCUMULUS.
164/07:43:01	79 00.5	010 02.6	0474	348.1	010	265	32987	31412	2.2	13.3	-11.2	-39.5	
164/07:44:01	79 08.4	010 01.9	0478	001.9	011	272	32973	31394	2.2	0.9	-27.8	-40.5	
164/07:45:01	79 16.2	010 04.6	0479	002.0	014	265	32973	31388	2.2	-0.4	-14.8	-40.7	
164/07:46:01	79 24.3	010 05.9	0479	358.6	014	259	32976	31388	1.9	2.9	-12.4	-41.9	
164/07:47:01	79 32.2	010 07.9	0481	002.5	013	262	32970	31368	2.2	1.4	-6.7	-41.5	
164/07:47:27	79 35.7	010 09.6	0482	003.4	013	256	32970	31378	2.1	-0.1	-7.9	-40.2	*** START OF RUN 2 TIME 07.47.28 LAT 7935.7 N LON 01C09.6 E FL 329
164/07:48:01	79 40.2	010 11.4	0484	003.2	013	250	32959	31359	2.2	-0.3	-8.9	-39.6	
164/07:48:05	79 40.7	010 11.7	0484	003.2	013	250	32967	31374	2.3	-0.3	-10.0	-40.0	START OF RUN 50 PERCENT STRATOCUMULUS, NUMEROUS ICE PLUMES.
164/07:48:17	79 42.2	010 12.7	0484	003.3	012	255	32978	31393	2.0	-0.3	-8.4	-40.9	ORIENTATION OF ICE PLUMES EASTWEST.
164/07:49:01	79 48.2	010 15.4	0485	003.4	012	248	32979	31363	2.1	0.0	-10.8	-40.8	
164/07:49:35	79 52.9	010 17.5	0484	003.3	014	241	32972	31369	2.2	-0.2	-12.3	-41.6	RAPID INCREASE IN ICE FLOE INTENSITY.
164/07:49:45	79 54.0	010 18.0	0484	003.2	013	252	32984	31385	2.1	0.1	-11.2	-38.9	5/10 STRATOCUMULUS AND HAZE.
164/07:50:01	79 56.3	010 19.1	0484	003.2	014	245	32965	31367	2.1	-0.1	-10.5	-39.8	
164/07:50:13	79 57.9	010 19.9	0485	003.2	015	243	32978	31338	2.1	0.0	-13.0	-39.9	PLUME STRUCTURE BROKEN CONV - SCATTERED MEDIUM FLOES.
164/07:50:41	80 01.5	010 21.2	0485	003.1	016	250	32973	31334	2.2	0.0	-12.5	-40.1	FRACTURED ZONE GREATLY DISCURSED SINCE THE LAST FLIGHT.
164/07:51:01	80 04.1	010 23.0	0485	003.1	014	248	32969	31339	2.2	0.0	-10.9	-40.5	
164/07:51:11	80 05.5	010 23.6	0485	003.1	015	252	32973	31316	2.2	0.1	-10.1	-39.8	LORAN C HAS ACCU WARNING.
164/07:51:25	80 07.6	010 24.4	0485	003.2	015	252	32970	31315	2.2	0.0	-10.8	-39.6	EXTENDED RANGE AT THE MOMENT MORE THAN 2.9 NAUTICAL MILES.
164/07:51:35	80 08.7	010 25.0	0485	003.2	014	248	32969	31327	2.4	0.1	-8.9	-39.1	ICE CONCENTRATION 50 PERCENT.
164/07:51:47	80 10.3	010 26.1	0485	003.2	014	248	32975	31341	2.1	-0.1	-10.9	-41.2	CAMERAS ON
164/07:51:59	80 12.1	010 26.6	0486	003.3	015	243	32971	31316	2.2	-0.2	-11.9	-40.3	CAMERAS ON.
164/07:52:01	80 12.4	010 27.0	0486	003.2	014	248	32972	31322	2.2	-0.4	-12.1	-39.8	
164/07:52:53	80 19.2	010 30.4	0486	003.7	014	232	32970	31307	2.1	0.1	-15.9	-41.8	STILL IN FRACTURED ICE 60 PERCENT CONCENTRATION.
164/07:53:01	80 20.0	010 30.7	0487	003.6	014	236	32960	31302	2.1	-0.1	-15.8	-41.2	9/10 CLOUD COVER STRATOCUMULUS.
164/07:53:55	80 27.5	010 34.6	0487	003.4	014	245	32972	31307	2.1	0.0	-11.6	-39.3	ENTERING THE MAIN PACK.
164/07:53:59	80 28.0	010 34.7	0487	003.4	015	243	32975	31310	2.1	0.0	-11.2	-39.6	CAMERAS OFF.
164/07:54:01	80 28.2	010 34.7	0487	003.4	014	245	32969	31304	2.1	-0.1	-12.8	-39.2	
164/07:54:53	80 35.2	010 38.6	0487	003.5	016	245	32970	31304	2.0	-0.2	-13.6	-37.5	10/10 STRATOCUMULUS.
164/07:55:01	80 36.4	010 39.4	0487	003.5	015	247	32965	31301	2.3	-0.2	-9.7	-40.1	
164/07:55:15	80 38.3	010 40.2	0487	003.7	014	241	32971	31305	2.1	-0.2	-12.1	-39.7	HAZE LAYER HAS DISAPPEARED.
164/07:55:29	80 40.1	010 41.3	0486	003.6	014	245	32978	31308	2.2	-0.1	-12.3	-39.1	LARGE MULITYEAR ICE FLOES 90 PERCENT ICE CONCENTRATION.
164/07:55:39	80 41.6	010 42.2	0486	003.6	014	249	32972	31311	2.1	-0.3	-11.3	-39.9	CORRECTION: MULTIYEAR.
164/07:56:01	80 44.5	010 43.8	0486	003.7	012	255	32986	31358	2.0	0.0	-11.0	-40.0	
164/07:56:15	80 46.3	010 44.8	0486	003.6	013	247	32970	31312	2.2	-0.1	-11.7	-38.3	10 MILES WEST NO CLOUD COVER - CAN SEE ICE CLEARLY.
164/07:57:01	80 52.4	010 48.2	0485	004.0	013	253	32974	31307	2.1	-0.8	-15.7	-36.7	
164/07:58:01	81 00.5	010 53.2	0485	004.3	007	265	32979	31314	2.1	-0.1	-15.8	-37.7	
164/07:58:47	81 06.7	010 56.8	0485	004.7	007	254	32969	31318	2.1	0.0	-16.5	-38.1	APPROACH END OF RUN 10/10 STRATOCUMULUS.
164/07:59:01	81 08.4	010 57.7	0486	004.6	007	244	32980	31315	2.1	-0.4	-16.1	-39.1	
164/08:00:01	81 16.4	011 03.2	0484	005.7	007	213	32960	31325	2.1	-1.0	-18.2	-37.9	
164/08:00:19	81 18.9	011 04.8	0483	005.4	008	207	32958	31309	2.2	-0.8	-18.2	-37.4	IN 81 16.6N LON 11 03.2E.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
164/08:00:51	81 23.1	[illegible]	07.4	0482	005.1	006	200	32963	31308	2.2	-0.1	-19.8	-36.8	LORAN C 80 03.5CN LON 10 38.53E
164/08:01:01	81 24.5	01[illegible]	08.2	0482	005.2	006	202	32969	31312	2.2	-0.2	-19.5	-37.2	
164/08:02:01	81 32.3	011	13.1	0482	005.2	006	190	32970	31324	2.3	0.0	-16.6	-38.1	
164/08:02:09	81 33.6	011	14.[illegible]	0482	005.4	007	176	32977	31318	2.2	0.1	-16.8	-37.7	END OF RUN THE ICE IS APPEARING DIMISHISHING 90 PERCENT ICE CONCENTRATION.
164/08:02:19	81 34.7	011	14.9	0482	005.6	006	162	32972	31323	2.2	1.0	-13.9	-38.6	LARGE AND MEDIUM FIRST YEAR FLOES.
164/08:02:29	81 36.1	011	15.7	0483	006.1	010	176	32973	31331	2.3	0.1	-8.8	-37.6	CAMERAS ON.
164/08:03:01	81 40.3	011	19.0	0484	006.5	010	165	32983	31328	2.2	-0.2	-7.7	-38.2	
164/08:03:55	81 47.6	011	24.0	0487	006.1	012	166	32973	31316	2.2	-0.4	-9.6	-38.4	95 PERCENT CONCENTRATION.
164/08:04:01	81 48.5	011	25.1	0488	006.2	011	162	32977	31329	2.2	-0.2	-9.1	-36.7	
164/08:04:21	81 51.1	011	26.5	0488	006.3	011	158	32972	31313	2.5	-3.7	-8.2	-38.7	(*) END OF RUN 2 TIME 03.04.20 LAT 8151.1 N LON 01126.5 E FL 329
164/08:05:01	81 56.3	011	18.8	0487	322.6	022	191	33019	31399	2.4	-28.7	-9.4	-39.2	
164/08:05:27	81 58.5	010	58.5	0481	289.3	024	179	32991	31372	2.5	-28.3	-9.9	-39.1	LEFT SIDE OF AIRCRAFT - MEDIUM AND LARGE MULTIYEAR AND FIRST YEAR FLOES.
164/08:06:01	81 58.5	010	29.3	0461	237.4	034	162	33086	31494	3.2	-42.6	-10.1	-38.7	
164/08:06:25	81 56.3	010	15.2	0449	193.8	026	128	32900	31315	2.0	-26.4	-8.0	-39.3	95 PERCENT ICE CONCENTRATION.
164/08:06:45	81 53.9	010	13.2	0450	180.8	019	133	32832	31200	2.7	-5.8	-7.6	-37.9	50 PERCENT STRATOCUMULUS.
164/08:07:01	81 51.8	010	12.5	0450	179.0	016	137	32879	31263	2.7	-0.7	-7.6	-37.7	
164/08:07:49	81 45.8	010	11.1	0452	182.3	015	148	32953	31305	2.5	0.9	-8.0	-36.2	*** START OF RUN 3 TIME 03.07.50 LAT 8145.6 N LON 01311.0 E FL 329
164/08:08:01	81 44.4	010	10.4	0453	182.9	015	148	32960	31317	2.4	0.5	-7.5	-36.9	
164/08:08:29	81 40.8	010	08.2	0455	183.5	014	149	32970	31315	2.3	-0.4	-9.2	-38.1	GREASE AND THIN ICE IN POLYNYA.
164/08:08:55	81 37.6	010	06.9	0457	183.4	012	144	32972	31334	2.4	-0.7	-11.1	-38.0	CAMERAS OFF.
164/08:09:01	81 36.9	010	06.6	0458	183.5	013	152	32969	31319	2.4	-0.5	-10.5	-38.0	
164/08:09:55	81 30.2	010	02.7	0461	184.1	009	148	32969	31337	2.4	-1.0	-17.5	-38.7	10/10 STRATOCUMULUS.
164/08:10:01	81 29.2	010	02.5	0460	184.0	010	151	32972	31336	2.4	-0.5	-17.2	-37.0	
164/08:11:01	81 21.7	009	58.2	0461	184.4	009	179	32979	31358	2.2	-0.7	-19.7	-37.8	
164/08:12:01	81 14.1	009	54.5	0463	184.4	009	188	32968	31311	2.3	-0.5	-18.0	-37.0	
164/08:13:01	81 06.1	009	50.6	0464	184.5	012	195	32969	31314	2.2	-0.9	-16.9	-37.6	
164/08:13:27	81 02.9	009	48.9	0465	183.9	012	195	32972	31338	2.2	-0.1	-15.5	-38.0	2 STAGE HYGROMETER IN BALANCE CHECK.
164/08:14:01	80 58.6	009	47.2	0467	184.6	013	206	32990	31301	1.9	0.9	-14.9	-38.9	10/10 STRATOCUMULUS.
164/08:15:01	80 51.0	009	43.6	0469	184.7	019	191	32984	31273	1.6	-0.8	-15.4	-38.2	
164/08:16:01	80 42.8	009	39.8	0469	184.4	019	181	32962	31288	1.8	-0.9	-15.8	-39.8	
164/08:16:17	80 40.9	009	38.7	0468	184.3	017	188	32959	31261	2.1	-0.9	-15.7	-39.5	FRONT OF AIRCRAFT CAN SEE FRACTURED ICE.
164/08:16:59	80 35.4	009	36.4	0467	184.2	018	188	32981	31289	1.9	-0.6	-13.0	-40.4	CAMERAS ON.
164/08:17:01	80 35.3	009	36.3	0467	184.2	017	188	32980	31295	1.9	-0.9	-13.6	-38.7	
164/08:18:22	00 00.0	000	00.0	0000	000.0	000	000	32962	31286	2.0	-0.6	-8.4	-41.0	
164/08:19:00	80 19.9	009	29.8	0465	183.9	017	188	32973	31295	2.0	-0.8	-15.1	-39.8	
164/08:19:18	80 17.7	009	28.7	0465	183.9	015	184	32965	31291	2.1	-0.7	-16.2	-38.5	70 PERCENT ICE CONCENTRATION 08 19 00.
164/08:19:34	80 15.6	009	28.0	0464	184.0	016	186	32969	31302	2.0	-0.9	-13.1	-38.7	RAPID INCREASE IN ICE CONCENTRATION.
164/08:19:50	80 13.6	009	27.3	0464	183.9	015	187	32963	31301	2.1	-0.7	-9.3	-39.3	SUN GLINTZ POLYNYA - NEW ICE OR GREASE ICE 08 18 00.
164/08:20:00	80 12.2	009	27.0	0464	183.8	016	186	32962	31298	2.0	-0.7	-9.7	-39.8	
164/08:20:02	80 12.0	009	26.6	0464	183.8	015	184	32965	31299	2.0	-0.7	-10.7	-39.7	ADDAS DOWN 08 17 15 BACK UP 08 18 30.
164/08:20:18	80 09.8	009	25.9	0464	183.9	015	184	32967	31311	2.1	-0.5	-9.2	-39.3	07 17 15 80 PERCENT ICE CONCENTRATION IN FRACTURED ICE ZONE.
164/08:20:50	80 05.9	009	24.4	0464	183.6	013	177	32958	31317	2.1	-0.7	-8.7	-40.2	ICE CONCENTRATION 10 PERCENT.
164/08:20:58	80 04.7	009	24.1	0464	183.6	013	177	32966	31364	2.2	-0.7	-8.9	-40.1	DISCUSSED ICE AREA.
164/08:21:00	80 04.6	009	24.3	0464	183.5	013	177	32968	31359	2.0	-0.7	-9.9	-40.3	
164/08:21:12	80 02.8	009	23.3	0465	183.6	012	174	32960	31322	2.2	-0.6	-15.5	-40.9	SUN GLINTZ APPEARS POLYNYAS ARE FULL OF ICE.
164/08:21:28	80 00.8	009	22.6	0465	183.6	012	174	32967	31357	2.0	-0.6	-11.3	-40.1	50 PERCENT STRATOCUMULUS AND HAZE.
164/08:21:48	79 58.2	009	21.4	0465	183.8	013	186	32970	31345	2.0	-0.4	-10.5	-41.6	LORAN C - AT THIS POSITION HE CAN ONLY PICK UP 2 STATION ON THIS NET.
164/08:21:56	79 57.3	009	21.0	0466	183.8	013	177	32966	31316	2.1	-0.9	-11.3	-39.6	9980.
164/08:22:00	79 57.0	009	21.0	0465	183.8	013	183	32963	31319	2.1	-0.7	-11.5	-39.3	
164/08:22:16	79 54.8	009	20.0	0466	183.7	010	185	32960	31357	2.1	-0.5	-11.8	-39.8	SAME LAT AND LON AS THE END OF THIS RUN.
164/08:22:18	79 54.7	009	20.2	0466	183.7	010	185	32957	31364	2.2	-0.9	-13.1	-39.9	PLUMES.
164/08:23:00	79 49.0	009	17.8	0466	183.7	010	178	32962	31365	2.1	1.8	-12.4	-39.1	
164/08:23:16	79 46.9	009	16.1	0460	201.9	015	237	33105	31[illegible]	[illegible]6	36.8	-9.4	-39.0	STRATOCUMULUS AT THE END OF RUN 3 50 PERCENT.
164/08:23:56	79 43.9	008	55.0	0458	262.4	009	285	32993	31458	[illegible]3	37.6	-13.4	-38.7	MARE DATA RUN AT END OF RUN 3.
164/08:24:00	79 43.9	008	53.1	0457	268.8	010	303	33027	31464	[illegible]6	36.8	-14.4	-40.7	
164/08:24:04	79 43.9	008	50.4	0457	275.8	010	314	33034	31478	2.9	38.4	-16.8	-38.6	CORRECTION: RUN 3.
164/08:24:12	79 44.2	008	44.4	0457	291.3	009	327	32996	31456	2.2	36.7	-21.1	-39.6	08 24 00 CAMERA OFF.
164/08:24:20	79 44.6	008	39.3	0457	303.8	007	348	33031	31484	2.6	36.8	-24.7	-41.0	CORRECTION ON CORRECTION ABOVE.
164/08:24:42	79 46.8	008	30.2	0457	347.5	004	083	33011	31452	2.2	36.4	-21.9	-39.9	ICE LANDING NET 9980-CAN PICK UP MASTER ABOUT 99 PERCENT.
164/08:25:00	79 49.0	008	28.5	0463	356.1	006	245	32872	31290	2.5	0.5	-21.8	-39.7	

YEAR 1984 AIDAS FLIGHT LOG --- FLIGHT NO. 6 --- NIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
164/08:25:36	79 53.7	008 25.3	0462	343.6	008	248	32930	31362	2.2	-3.0	-23.7	-37.9	LORAN C ON NORWEGIEN SEA.
164/08:25:46	79 54.8	008 23.3	0462	350.0	002	173	32942	31375	2.9	23.9	-27.3	-38.5	START OF RUN 10/10 STRATOCUMULUS.
164/08:26:00	79 56.7	008 22.5	0463	000.6	003	218	32951	31354	2.5	10.8	-23.0	-39.2	
164/08:27:00	80 04.3	008 27.0	0467	004.6	007	226	32971	31370	2.3	-2.0	-25.4	-40.4	*** START OF RUN 4 TIME C3.26.59 LAT 8004.3 N LON C0027.0 E FL 329
164/08:28:00	80 12.1	008 30.1	0471	002.2	009	224	32974	31333	2.3	-0.5	-22.8	-39.1	AIN - START OF MARE SECOND RUN FLUX DIVERSION 2 MILLIWATTS.
164/08:28:10	80 13.4	008 30.5	0471	002.2	009	218	32974	31340	2.2	-0.7	-22.9	-40.5	IN FRACTURED ICE ZONE 50 PERCENT ICE CONCENTRATION.
164/08:28:58	80 19.7	008 32.1	0474	002.0	010	235	32976	31331	2.2	-0.3	-18.3	-38.3	ICE CONCENTRATION 60 PERCENT.
164/08:29:00	80 19.9	008 32.6	0474	002.0	010	235	32973	31330	2.2	-0.3	-18.8	-37.4	
164/08:30:00	80 27.9	008 34.9	0477	002.3	010	218	32974	31331	2.2	-0.5	-13.4	-37.4	
164/08:30:18	80 30.2	008 35.6	0478	002.1	010	235	32957	31308	2.1	-0.8	-14.1	-39.4	INS 80 28.0N LON 08 34.7E.
164/08:30:34	80 32.3	008 36.3	0478	002.2	010	224	32960	31319	2.1	-0.4	-15.5	-38.5	LORAN C - 80 02 .60N 09 00.71E.
164/08:30:48	80 34.2	008 36.9	0479	002.3	011	208	32962	31321	2.2	-0.5	-14.1	-39.7	10/10 STRATOCUMULUS.
164/08:31:00	80 35.6	008 37.3	0479	002.1	011	223	32970	31315	2.1	-0.4	-14.4	-38.7	
164/08:31:20	80 38.3	008 38.3	0480	002.[illegible]	011	218	32965	31309	2.2	-0.5	-14.6	-38.3	CLOUD STRUCTURE LOOKS LIKE LON PRESSURE SENSOR IS EAST OF US.
164/08:32:00	80 43.7	008 40.0	0482	002.3	010	213	32969	31299	2.1	-0.7	-20.3	-39.4	
164/08:32:14	80 45.5	008 40.3	0483	002.1	012	214	32964	31306	2.0	-0.6	-18.2	-40.0	LARGE OF MEDIUM MULTIYEAR FLOES AND FIRST YEAR FLOES.
164/08:33:00	80 51.7	008 42.8	0484	002.2	011	234	32972	31299	2.1	-0.5	-15.3	-37.5	
164/08:33:56	80 59.1	008 45.5	0484	001.8	013	227	32983	31323	2.0	-1.7	-17.2	-38.4	HUGE MULTIYEAR FLOES TO THE EAST OF US.
164/08:34:00	80 59.6	008 45.6	0484	001.5	012	243	32977	31314	1.9	-1.2	-15.7	-38.1	
164/08:34:50	81 06.4	008 47.5	0485	001.6	012	237	32972	31305	2.0	0.0	-16.8	-39.5	BOB - AT THIS TIME C3 34 00 ALL CONVERTERS OPERATING AT SAME VOLTAGE AMPS AS REC
164/08:35:00	81 07.9	008 47.8	0485	002.0	011	238	32986	31310	2.1	0.2	-18.3	-38.5	
164/08:35:08	81 08.9	008 48.0	0485	002.2	011	234	32989	31303	1.8	-0.3	-17.8	-38.8	LOOKING WEST LARGE MULTIYEAR FLOES ICE CONCENTRATION 90 PERCENT.
164/08:35:46	81 13.9	008 50.4	0485	002.4	009	237	32969	31321	2.1	-0.4	-16.5	-39.0	CAMERAS ON.
164/08:36:00	81 15.8	008 51.0	0485	002.6	007	242	32976	31291	2.0	-0.5	-15.0	-37.7	
164/08:36:18	81 18.3	008 51.9	0484	002.6	006	257	32980	31295	1.9	-0.5	-15.6	-37.4	ICE CONCENTRATION 95 PERCENT.
164/08:36:38	81 20.9	008 52.7	0484	002.8	005	240	32986	31302	1.9	-0.5	-14.4	-37.2	CLEAR UNDER AIRCRAFT.
164/08:37:00	81 23.8	008 54.4	0483	002.8	005	264	32981	31293	2.0	-0.6	-10.3	-37.4	
164/08:37:38	81 28.9	008 55.0	0483	003.1	003	237	32961	31285	1.9	-0.5	-10.9	-37.9	AT THE END OF RUN ICE CONCENTRATION 95 PERCENT.
164/08:38:00	81 32.0	008 57.2	0482	003.1	002	245	32963	31303	2.0	-0.6	-8.8	-38.0	
164/08:39:00	81 39.7	009 00.6	0481	003.7	002	129	32972	31288	2.0	-0.5	-7.2	-38.2	
164/08:39:28	81 43.7	009 02.1	0481	003.7	004	129	32964	31309	2.0	-0.6	-7.0	-37.5	DARK ICE BETWEEN FLOES.
164/08:40:00	81 47.6	009 03.6	0480	004.1	007	113	32972	31312	2.1	-0.7	-7.7	-36.4	
164/08:40:14	81 49.7	009 04.2	0480	004.4	007	105	32971	31298	2.0	-0.1	-7.4	-37.3	NEW SNOW ON ICE.
164/08:40:30	81 51.7	009 04.9	0480	004.7	008	115	32955	31304	2.5	-5.2	-7.4	-38.9	!!! END OF RUN 4! TIME C3.40.31 LAT 8151.9 N LON C0905.7 E FL 329
164/08:41:00	81 55.5	009 01.2	0476	329.4	016	268	33099	31465	2.4	-35.6	-8.4	-37.9	
164/08:42:19	00 00.0	000 00.0	0000	000.0	000	000	32934	31394	3.0	-34.4	-15.2	-37.4	
164/08:42:55	81 51.3	007 55.9	0453	188.1	009	121	32872	31240	2.6	-3.0	-7.3	-36.8	AIDAS DOWN C3 41 24 AND BACK UP AT C3 42 23.
164/08:43:01	81 50.9	007 55.3	0452	187.5	010	133	32850	31237	2.6	-4.0	-7.3	-36.3	
164/08:43:37	81 46.4	007 51.4	0453	183.6	007	136	32944	31299	2.4	-2.0	-7.7	-37.9	95 PERCENT ICE CONCENTRATION.
164/08:43:59	81 43.5	007 50.6	0455	182.2	008	135	32959	31325	2.5	-1.4	-6.5	-37.5	*** START OF RUN 5 TIME C3.43.59 LAT 8143.5 N LON C0750.6 E FL 329
164/08:44:01	81 43.2	007 50.9	0455	182.2	007	127	32959	31305	2.4	-1.3	-6.5	-36.3	
164/08:44:41	81 38.2	007 49.3	0458	181.8	006	158	32969	31313	2.3	-0.6	-6.8	-36.8	FROM THE SUN THERE IS NEW ICE AND POLYNYAS.
164/08:44:53	81 36.7	007 48.4	0459	182.0	007	172	32972	31332	2.3	-0.2	-8.1	-37.6	90 PERCENT ICE CONCENTRATION.
164/08:45:01	81 35.6	007 48.8	0460	181.9	008	163	32977	31342	2.3	-0.4	-10.4	-36.9	
164/08:46:01	81 28.0	007 46.5	0464	182.1	006	166	32973	31317	2.1	-0.3	-8.4	-36.4	
164/08:46:15	81 26.1	007 45.8	0465	182.1	007	178	32971	31316	2.1	-0.4	-6.9	-37.4	DECREASE IN ICE CONCENTRATION APPROXIMATELY 65 PERCENT.
164/08:46:51	81 21.4	007 44.5	0467	182.4	007	201	32979	31318	2.0	0.0	-9.8	-36.7	THIN STRATOCUMULUS ABOUT 50 PERCENT.
164/08:47:01	81 20.4	007 44.2	0468	182.6	008	203	32977	31297	2.0	-0.6	-10.9	-38.5	
164/08:48:01	81 12.4	007 42.5	0471	183.0	009	211	32980	31311	1.6	-0.5	-12.1	-39.0	
164/08:48:13	81 11.0	007 42.3	0472	182.9	012	213	32977	31313	1.9	-0.6	-11.6	-39.2	CLOUD COVER IN INCREASING ICE CONCENTRATION 65 PERCENT.
164/08:48:27	81 09.1	007 41.7	0472	183.0	010	223	32977	31312	1.9	-0.3	-12.9	-38.0	CLOUD COVER IS INCREASING.
164/08:48:35	81 08.1	007 41.5	0473	182.9	011	217	32991	31293	1.6	-0.5	-12.6	-40.1	LARGE TO MEDIUM MULTIYEAR AND FIRST YEAR FLOES.
164/08:49:01	81 04.6	007 40.2	0474	182.9	013	209	32978	31284	1.8	-0.5	-10.7	-38.2	
164/08:50:01	80 56.8	007 38.4	0474	183.0	016	207	32969	31271	1.8	-0.5	-11.6	-37.9	
164/08:51:01	80 48.9	007 37.1	0472	182.7	014	209	32975	31344	1.6	-0.5	-11.5	-38.7	
164/08:52:01	80 41.1	007 35.0	0471	182.8	015	213	32959	31299	2.0	-0.2	-9.6	-39.5	
164/08:52:11	80 39.8	007 34.7	0471	182.9	015	213	32971	31287	1.9	-0.2	-12.4	-38.4	ENTERING THE FRACTURED ICE ZONE.
164/08:53:01	80 33.4	007 33.4	0470	182.7	014	201	32964	31278	1.8	-0.4	-10.7	-37.1	
164/08:53:03	80 33.2	007 33.3	0470	182.7	014	205	32958	31281	1.8	-0.3	-10.4	-37.3	ICE CONCENTRATION 80 PERCENT.
164/08:54:01	80 25.5	007 31.8	0470	182.7	014	209	32969	31283	2.0	-0.5	-8.1	-39.0	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
164/08:54:07	80 24.7	007 31.4	0470	182.7	016	209	32971	31286	1.9	-0.4	-8.6	-39.1	50 PERCENT STRATOCUMULUS AND HAZE.
164/08:55:01	80 17.7	007 30.1	0470	182.8	013	213	32966	31291	1.9	-0.3	-11.0	-39.3	
164/08:55:39	80 12.7	007 29.2	0470	182.8	013	213	32972	31322	1.9	-0.4	-20.8	-38.3	CAMERAS OFF 09 55 40.
164/08:56:01	80 10.1	007 28.4	0470	182.6	015	213	32971	31304	1.9	-0.4	-21.3	-39.4	
164/08:57:01	80 02.0	007 27.3	0471	182.8	012	222	32969	31339	1.9	-0.3	-13.3	-38.5	END OF THIS RUN 10/10 STRATOCUMULUS.
164/08:58:01	79 54.3	007 25.9	0473	182.9	009	235	32969	31320	1.8	-0.5	-28.3	-39.1	
164/08:58:31	79 50.2	007 25.1	0473	182.8	010	228	32969	31352	2.0	-0.5	-27.0	-40.3	!!! END OF RUN 5 TIME 08.58.32 LAT 7950.0 N LON C0729.7 E FL 329
164/08:59:01	79 46.5	007 22.4	0466	203.9	017	255	33074	31512	2.2	34.1	-26.0	-41.5	
164/09:00:01	79 44.2	006 46.6	0456	301.7	013	315	32976	31428	2.7	34.6	-26.1	-37.5	
164/09:00:15	79 45.2	006 39.5	0456	325.1	008	327	32971	31405	2.5	34.3	-19.3	-38.4	INS - LAT 79 44.2N LON 06 47.6E.
164/09:00:33	79 47.2	006 33.8	0461	344.2	010	300	32907	31334	2.3	15.7	-18.3	-39.2	LOCAN C - LAT 79 20.7N LON 06 22.4E.
164/09:01:01	79 50.9	006 30.9	0464	355.0	012	292	32934	31336	2.2	5.1	-18.2	-38.2	
164/09:01:33	79 55.2	006 30.9	0466	359.2	013	280	32957	31346	2.0	0.6	-14.4	-38.7	PLUMES.
164/09:01:41	79 56.0	006 30.5	0467	359.5	013	280	32958	31317	2.1	0.4	-14.2	-38.0	*** START OF RUN 6 TIME 09.01.42 LAT 7956.3 N LON C0630.4 E FL 329
164/09:02:01	79 58.6	006 30.9	0468	359.7	013	280	32967	31357	2.1	-0.5	-17.5	-41.2	
164/09:03:01	80 06.4	006 31.8	0471	359.3	013	274	32972	31316	2.0	-0.3	-8.2	-39.4	
164/09:03:21	80 09.0	006 32.2	0473	359.2	014	267	32974	31328	1.9	-0.6	-10.4	-38.5	ENTERING FRACTIONED ICE ZONE.
164/09:03:59	80 14.1	006 32.3	0474	359.1	014	272	32975	31311	1.8	-0.3	-16.1	-37.7	CLOUDS 9/10 STRATOCUMULUS.
164/09:04:01	80 14.4	006 32.6	0475	359.2	014	267	32976	31307	2.0	-0.2	-15.3	-39.0	
164/09:04:11	80 15.5	006 32.6	0475	359.2	015	275	32974	31306	1.9	-0.3	-12.8	-38.5	CAMERAS ON AT 09 03 39.
164/09:04:23	80 17.0	006 32.6	0476	359.1	014	267	32934	31310	1.9	-0.3	-12.9	-38.1	ICE CONCENTRATION 50 PERCENT.
164/09:05:01	80 22.1	006 33.2	0478	359.2	015	264	32973	31300	1.8	-0.2	-9.3	-39.4	
164/09:05:15	80 24.1	006 33.2	0478	359.1	016	261	32972	31297	1.9	-0.4	-16.3	-38.2	RAPID INCREASE IN ICE CONCENTRATION.
164/09:05:25	80 25.4	006 33.9	0478	359.1	016	259	32972	31305	1.8	-0.4	-19.4	-39.1	FRACTIONED ICE ZONE.
164/09:05:35	80 26.7	006 34.0	0479	359.0	017	256	32966	31294	2.0	-0.1	-19.3	-39.3	ICE CONCENTRATION 80 PERCENT.
164/09:06:01	80 30.2	006 34.5	0480	359.1	016	249	32970	31294	1.9	-0.4	-8.0	-39.1	
164/09:06:09	80 31.2	006 34.5	0480	359.0	017	252	32977	31302	1.9	-0.4	-8.7	-40.3	CORRECTION ON ABOVE - FRACTURED ICE ZONE.
164/09:06:17	80 32.1	006 34.7	0480	359.0	017	252	32970	31294	1.9	-0.2	-10.9	-39.0	CORRECTION - ICE.
164/09:06:49	80 36.4	006 34.8	0481	359.0	017	252	32961	31289	1.9	-0.1	-13.5	-36.9	FRACTURED ICE ZONE - CONCENTRATION 90 PERCENT.
164/09:06:57	80 37.5	006 35.0	0482	359.2	015	251	32970	31296	1.9	-0.2	-12.0	-37.4	THICK BROKEN CLOUD COVER.
164/09:07:01	80 38.2	006 35.0	0482	359.1	016	254	32970	31290	1.8	-0.1	-12.7	-38.3	
164/09:07:13	80 39.8	006 34.9	0482	359.2	015	261	32964	31277	1.8	-0.2	-13.1	-38.4	ENTERING MAIN POLAR PACK.
164/09:07:19	80 40.5	006 35.0	0482	359.3	014	256	32971	31282	1.9	-0.6	-14.1	-39.1	LARGE TO MEDIUM
164/09:07:33	80 42.4	006 35.4	0483	359.4	013	252	32974	31292	1.8	0.4	-16.0	-38.6	MULTIYEAR AND FIRST YEAR FLOES.
164/09:07:41	80 43.4	006 35.4	0483	359.5	014	261	32969	31293	1.8	-0.2	-14.7	-37.1	ICE CONCENTRATION 90 PERCENT.
164/09:08:01	80 46.2	006 35.9	0483	359.8	012	258	32969	31282	1.9	-0.2	-10.1	-39.7	
164/09:08:19	80 48.5	006 36.2	0484	359.7	013	252	32970	31270	1.5	-0.6	-8.6	-38.5	LEAVING CLOUD DECK.
164/09:08:33	80 50.5	006 36.2	0484	359.6	013	247	32972	31290	1.8	-0.4	-8.3	-38.9	LARGE MULTIYEAR FLOES, SMALL FIRST YEAR FLOES.
164/09:08:43	80 51.9	006 36.6	0484	359.5	014	241	32968	31281	1.8	-0.4	-8.8	-37.4	ICE CONCENTRATION 90 PERCENT.
164/09:09:01	80 54.3	006 36.9	0485	359.4	013	252	32969	31271	1.9	-0.4	-9.6	-39.6	
164/09:10:01	81 02.2	006 38.0	0486	359.5	012	255	32979	31283	1.8	-0.1	-9.4	-39.7	
164/09:10:29	81 05.9	006 38.2	0486	359.3	014	264	32973	31283	1.7	-0.3	-9.3	-38.7	HUGE MULTIYEAR ICE FLOE WITH NO CLOUD COVER.
164/09:11:01	81 10.2	006 38.8	0486	359.6	013	270	32972	31274	1.7	-0.3	-9.9	-39.0	
164/09:11:31	81 14.3	006 39.1	0486	359.4	013	252	32967	31270	1.8	-0.3	-9.6	-39.0	2/10 STRATOCUMULUS.
164/09:11:43	81 16.1	006 39.6	0486	359.5	012	255	32971	31264	1.8	-0.4	-8.7	-38.0	ICE CONCENTRATION 90 PERCENT.
164/09:12:01	81 18.4	006 39.8	0486	359.6	011	261	32979	31257	1.8	0.3	-7.4	-37.5	
164/09:13:01	81 26.4	006 40.9	0486	000.1	010	261	32975	31286	1.7	-0.1	-6.7	-38.1	
164/09:14:01	81 34.5	006 41.8	0485	000.4	007	267	32973	31260	1.6	-0.6	-6.8	-37.2	
164/09:14:09	01 35.5	006 42.1	0485	000.5	006	268	32964	31269	1.9	-0.3	-7.6	-36.3	6/10 STRATOCUMULUS.
164/09:14:49	81 40.9	006 43.1	0484	000.5	005	285	32974	31254	1.8	-0.5	-9.2	-38.1	AT END OF RUN 10/10 STRATOCUMULUS.
164/09:15:01	81 42.5	006 43.2	0484	000.7	005	295	32968	31270	1.8	-0.1	-10.2	-36.2	
164/09:15:49	81 48.8	006 43.8	0483	001.0	002	333	32973	31258	1.8	0.0	-13.2	-38.2	!!! END OF RUN 6 TIME 09.15.50 LAT 8148.9 N LON C0643.9 E FL 329
164/09:16:01	81 50.5	006 44.2	0483	001.2	002	010	32966	31286	1.8	-0.3	-15.8	-38.2	
164/09:16:59	81 57.7	006 29.5	0478	307.5	010	205	33053	31406	2.3	-32.6	-16.1	-38.1	CAMERAS OFF AT 09 17 00
164/09:17:01	81 57.8	006 29.3	0478	304.6	011	196	33053	31416	2.3	-34.0	-15.9	-38.3	
164/09:17:37	81 58.4	005 56.7	0471	246.0	017	154	33022	31408	2.5	-36.9	-16.4	-35.6	NORTHEAST CORNER OF MIZEX BOX IS OBSCURED WITH 10/10 STRATOCUMULUS.
164/09:18:01	81 56.3	005 39.8	0464	203.7	010	114	32994	31324	-0.2	-19.5	-15.7	-38.2	
164/09:19:01	81 48.8	005 31.4	0467	180.7	007	141	32915	31222	2.1	-2.4	-15.5	-37.6	
164/09:19:15	81 46.9	005 31.3	0467	179.8	006	152	32931	31234	2.1	-1.2	-15.6	-36.4	*** START OF RUN 7 TIME 09.19.14 LAT 8146.9 N LON C0531.3 E FL 329
164/09:20:01	81 41.1	005 31.8	0468	179.2	008	152	32969	31276	1.9	-0.2	-16.5	-36.4	

YEAR 1984 AIDAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
164/09:21:01	81 33.0	005 31.6	0469	179.9	007	170	32967	31297	2.0	-0.6	-15.5	-35.5	
164/09:21:15	81 31.6	005 31.5	0469	179.9	007	175	32963	31290	2.0	-0.5	-15.5	-36.9	90 PERCENT STRATOCUMULUS.
164/09:22:01	81 25.4	005 31.6	0470	180.1	008	189	32972	31282	1.9	0.0	-14.9	-38.2	
164/09:23:01	81 17.6	005 31.6	0470	180.4	007	207	32973	31306	1.9	-0.2	-13.1	-36.6	
164/09:23:11	81 16.3	005 31.5	0471	180.4	007	199	32969	31286	1.9	-0.2	-15.1	-38.6	CAMERA ON AT 23 02.
164/09:23:21	81 15.1	005 31.9	0471	180.4	006	197	32970	31300	1.8	-0.3	-14.9	-38.4	CORRECTION - 09 23 02.
164/09:23:39	81 12.7	005 31.8	0471	180.5	009	209	32972	31271	1.9	-0.5	-14.3	-39.8	SOME OF THE POLYNYAS HAVE OPEN WATER.
164/09:23:51	81 11.1	005 31.8	0471	180.6	008	215	32976	31285	1.7	-0.2	-14.6	-38.6	3/10 STRATOCUMULUS.
164/09:24:01	81 09.7	005 31.6	0472	180.7	010	209	32970	31288	1.8	-0.2	-14.0	-39.0	
164/09:24:23	81 06.8	005 31.9	0472	180.8	008	229	32975	31293	1.8	-0.6	-8.7	-37.5	LARGE MULTIYEAR AND MEDIUM FIRST-YEAR FLOES.
164/09:24:53	81 03.0	005 31.5	0472	180.6	008	222	32973	31285	1.8	-0.7	-9.8	-37.2	CLOUD COVER 50 PERCENT STRATOCUMULUS.
164/09:25:01	81 02.0	005 31.6	0473	180.6	008	222	32971	31292	1.8	-0.2	-9.3	-37.8	
164/09:25:19	80 59.5	005 31.5	0473	180.5	008	222	32972	31290	1.8	0.1	-11.4	-37.2	POLYNYAS APPEAR TO HAVE SOME OPEN WATER.
164/09:25:47	80 56.1	005 31.6	0474	180.8	011	215	32971	31293	1.8	-0.1	-12.2	-36.4	OPEN WATER IS MAINLY IN THE LARGE POLYNYAS.
164/09:25:59	80 54.5	005 31.8	0474	180.9	012	220	32976	31285	1.8	0.0	-11.8	-36.8	SIZE OF THE MULTIYEAR FLOES IS DECREASING.
164/09:26:01	80 54.1	005 31.5	0474	180.9	011	215	32973	31273	1.8	-0.2	-11.5	-37.5	
164/09:26:17	80 52.0	005 31.4	0474	180.9	012	210	32983	31276	1.8	-0.9	-10.4	-37.2	ICE CONCENTRATION 85 PERCENT.
164/09:26:49	80 47.8	005 31.8	0474	181.0	012	234	32969	31281	1.9	-0.5	-10.1	-37.4	DURING THE MAPPING MISSION THE CLOUD COVER HAS BEEN INCREASING IN
164/09:26:59	80 46.6	005 31.5	0474	180.9	013	220	32968	31264	1.7	0.1	-8.0	-37.9	THE SOUTH END OF THE MIZEX BOX.
164/09:27:01	80 46.1	005 31.8	0474	180.9	011	225	32967	31261	1.8	-0.1	-8.2	-37.7	
164/09:28:01	80 38.3	005 31.8	0474	180.9	014	211	32979	31266	1.8	-0.7	-10.4	-37.5	
164/09:28:37	80 33.6	005 31.6	0474	180.5	012	210	32969	31276	1.7	-0.3	-9.8	-38.0	
164/09:28:49	80 32.0	005 31.6	0474	180.5	013	211	32962	31258	1.8	0.2	-8.5	-37.9	EDGE OF MAIN PACK ENTERING FRACTURED ZONE.
164/09:29:01	80 30.4	005 31.4	0474	180.5	013	206	32969	31274	1.7	-0.4	-9.8	-39.2	
164/09:29:03	80 30.4	005 32.0	0474	180.6	012	215	32963	31263	1.6	-0.3	-10.0	-37.8	ICE CONCENTRATION 85 PERCENT.
164/09:29:37	80 25.7	005 31.9	0474	181.0	014	223	32952	31263	1.8	0.0	-12.3	-38.1	RAPID DECREASE IN ICE CONCENTRATION IN FRACTURED ICE
164/09:29:53	80 23.7	005 31.6	0474	181.1	013	224	32960	31266	1.9	-0.1	-11.8	-38.1	25 PERCENT ICE CONCENTRATION.
164/09:30:01	80 22.5	005 31.6	0474	181.1	013	224	32975	31278	1.8	-0.1	-9.6	-38.6	
164/09:30:19	80 20.0	005 32.1	0474	181.0	010	232	32966	31274	1.9	-0.5	-15.1	-39.1	FRACTURED ICE ZONE IS GREATLY DISSIPATED.
164/09:30:35	80 18.2	005 31.6	0474	181.0	012	230	32968	31272	1.8	-0.2	-20.0	-38.3	NO PLUME STRUCTURE RANDOM DISTRIBUTION.
164/09:31:01	80 14.8	005 32.0	0474	181.0	011	215	32965	31280	1.8	-0.5	-17.8	-40.2	
164/09:31:03	80 14.4	005 32.1	0474	181.1	014	220	32969	31279	1.8	-0.5	-16.2	-39.4	09 30 00 INS 00 22.7N LON 5 31.6E.
164/09:31:15	80 12.9	005 31.9	0474	181.0	013	220	32977	31313	1.7	-0.4	-16.5	-39.8	LORAN C 79 59.9N LON 5 06.0E.
164/09:31:37	80 10.0	005 31.8	0474	180.9	011	220	32969	31283	1.8	0.0	-17.2	-38.5	CLOUD COVER 9/10 STRATOCUMULUS.
164/09:31:59	80 07.1	005 31.8	0474	180.7	008	229	32969	31315	1.7	0.1	-18.3	-38.0	ICE CONCENTRATION 40 PERCENT.
164/09:32:01	80 07.0	005 31.9	0474	180.8	007	231	32967	31326	1.8	-0.2	-17.4	-37.7	
164/09:33:01	79 58.9	005 31.9	0475	180.9	009	234	32969	31315	1.6	-0.3	-21.6	-39.5	
164/09:33:07	79 58.2	005 31.8	0475	180.8	012	220	32962	31301	2.4	-9.6	-21.6	-38.4	!!! END OF RUN 7 TIME 09.33.06 LAT 7959.2 N LON 00531.8 E FL 329
164/09:33:37	79 54.3	005 36.9	0478	156.5	007	249	32981	31305	1.7	-13.7	-21.9	-38.6	CAMERAS OFF.
164/09:34:01	79 51.6	005 45.7	0481	147.9	006	267	32958	31323	1.7	-4.6	-14.0	-39.6	
164/09:34:11	79 50.6	005 50.2	0482	146.2	006	267	32961	31350	1.6	-3.0	-20.9	-38.5	AT END OF THE RUN SOME PLUME STRUCTURES WITH EAST WEST STRUCTURE.
164/09:35:01	79 45.1	006 11.0	0483	145.1	005	238	32969	31355	1.8	0.1	-17.9	-37.8	
164/09:36:01	79 38.4	006 37.6	0483	145.6	004	230	32966	31365	1.8	-0.4	-19.4	-39.6	
164/09:37:01	79 31.8	007 02.3	0484	146.3	004	217	32972	31344	1.7	-0.3	-16.6	-40.8	
164/09:38:01	79 25.2	007 26.8	0484	146.7	004	244	32980	31340	1.7	-0.4	-22.0	-38.4	
164/09:39:01	79 18.4	007 51.4	0483	147.3	006	236	32967	31333	1.8	-0.2	-11.9	-38.2	
164/09:40:01	79 11.7	008 16.8	0482	147.3	006	277	32966	31350	1.4	0.0	-15.6	-41.2	
164/09:41:01	79 05.2	008 37.7	0483	148.5	009	259	32966	31348	1.7	-0.4	-9.6	-40.5	
164/09:42:01	78 58.4	009 00.6	0484	148.6	007	258	32969	31360	1.8	-0.5	-15.4	-39.2	
164/09:43:01	78 51.6	009 23.0	0485	148.1	008	226	32968	31369	1.6	-0.4	-4.2	-40.6	
164/09:44:01	78 44.8	009 44.8	0485	149.6	010	214	32971	31371	1.6	0.0	-3.1	-42.3	
164/09:45:01	78 37.7	010 06.6	0482	149.9	012	210	32967	31365	1.6	0.3	-2.4	-43.2	
164/09:46:01	78 30.9	010 27.4	0479	150.5	014	204	32967	31379	1.7	0.0	-5.8	-40.7	
164/09:47:01	78 24.3	010 47.2	0477	150.7	012	206	32972	31376	1.6	0.1	-6.9	-41.6	
164/09:48:01	78 17.2	011 07.4	0476	150.8	011	201	32971	31389	1.6	0.2	-6.2	-42.8	
164/09:49:01	78 10.5	011 26.3	0476	151.0	009	215	32967	31394	1.6	-0.1	-6.7	-41.9	
164/09:50:01	78 03.9	011 45.1	0473	151.8	010	216	32956	31402	1.7	-0.2	-9.5	-41.7	
164/09:51:01	77 56.8	012 04.0	0473	151.5	008	229	32963	31416	1.8	-0.1	-7.2	-43.2	
164/09:52:01	77 49.9	012 22.3	0472	151.7	008	215	32980	31443	1.8	0.4	-10.7	-43.8	
164/09:53:01	77 43.2	012 40.2	0472	152.2	009	229	32976	31457	1.9	1.0	-20.4	-42.8	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
164/09:54:01	77 36.2	012 58.2	0473	152.5	008	243	32976	31462	1.3	0.4	-24.6	-44.2	
164/09:55:01	77 29.3	013 15.1	0475	153.1	010	256	32969	31446	1.8	-0.2	-19.8	-44.9	
164/09:56:01	77 22.4	013 32.0	0477	153.4	00[illegible]	[illegible]97	32976	31449	1.5	0.3	-18.3	-43.9	
164/09:57:01	77 15.4	013 49.2	0478	153.3	009	273	32980	31472	1.6	-0.4	-18.9	-44.7	
164/09:58:29	77 04.8	014 13.7	0480	153.7	008	238	31216	61262	1.6	1.6	-16.5	-44.6	
164/09:59:23	00 00.0	000 00.0	0000	000.0	000	000	32974	31451	1.6	0.1	-12.4	-45.2	
164/10:00:01	76 54.3	014 37.6	0480	154.7	010	269	32976	31467	1.6	-0.1	-13.8	-45.9	
164/10:01:01	76 46.9	014 53.4	0482	154.6	010	253	32964	31479	1.6	0.2	-20.6	-44.2	
164/10:02:01	76 39.7	015 08.6	0480	154.8	008	251	32966	31409	1.6	-0.3	-17.1	-44.6	
164/10:03:01	76 32.8	015 23.9	0479	154.7	007	275	32964	31509	1.7	-0.2	-18.1	-44.9	
164/10:04:01	76 25.3	015 38.9	0478	154.7	011	295	32960	31545	1.8	0.2	-14.6	-45.1	
164/10:05:01	76 18.4	015 53.2	0478	155.0	008	301	32972	31527	1.8	0.0	-11.0	-45.7	
164/10:06:01	76 11.5	016 07.7	0478	155.2	008	302	32970	31526	1.6	-0.2	-11.7	-46.4	
164/10:07:01	76 04.0	016 22.1	0478	155.3	005	294	32975	31520	1.7	-0 3	-2.8	-45.5	
164/10:08:01	75 57.0	016 35.7	0478	155.9	008	286	32964	31518	1.7	0.0	0.7	-44.8	
164/10:09:01	75 49.8	016 49.0	0478	155.7	007	293	32972	31560	1.5	0.2	-1.0	-44.8	
164/10:10:01	75 42.4	017 03.2	0478	156.2	007	271	32972	31524	1.6	0.3	-2.5	-45.6	
164/10:11:01	75 35.3	017 16.2	0478	156.3	006	290	32971	31551	1.3	0.0	-1.9	-44.2	
164/10:12:01	75 28.0	017 29.1	0479	156.5	009	311	32964	31536	1.8	0.2	-1.9	-45.7	
164/10:13:01	75 20.6	017 42.0	0479	156.8	006	299	32975	31527	1.6	0.0	-1.5	-45.9	
164/10:14:01	75 13.4	017 54.6	0479	156.8	006	291	32977	31531	1.6	-0.1	-0.3	-46.6	
164/10:15:01	75 06.2	018 06.9	0470	154.9	005	306	32969	31521	1.6	-0.6	-0.6	-46.1	
164/10:16:01	74 58.7	018 19.2	0476	157.2	004	291	32962	31553	1.7	0.0	-0.2	-46.6	
164/10:17:01	74 51.7	018 31.1	0473	157.2	004	291	32964	31543	1.7	-0.1	0.8	-44.1	
164/10:17:07	74 50.9	018 32.1	0473	157.2	005	296	32968	31538	1.7	0.0	1.0	-45.9	ANN - STARTED MARE DATA RUN 10 09 00 PATCHES OF OCCASSIONAL CLOUD.
164/10:17:23	74 49.1	018 35.4	0473	156.3	004	291	32966	31555	1.6	-3.0	1.2	-45.7	ZERO CLOUD COVER.
164/10:17:29	74 48.2	018 36.8	0473	155.7	003	284	32955	31545	1.8	-2.5	0.8	-44.4	IMMEDIATE SWELL.
164/10:18:01	74 44.5	018 43.4	0472	151.9	005	296	32962	31558	1.7	-4.1	-0.8	-45.8	
164/10:19:01	74 37.6	018 58.6	0471	150.8	003	300	32962	31562	1.8	0.3	-2.2	-44.8	
164/10:20:01	74 30.7	019 12.1	0469	152.8	002	319	32978	31432	1.7	-0.5	4.0	-45.3	
164/10:20:25	74 28.1	019 17.0	0464	165.5	003	249	33043	31431	1.9	30.4	-2.0	-45.7	JUST PASSED OVER BEAR ISLAND.
164/10:21:01	74 23.7	019 15.7	0459	200.5	006	255	32946	31539	1.8	6.0	-6.9	-46.1	
164/10:22:01	74 16.4	019 04.9	0459	205.4	007	244	32968	31576	1.8	1.2	-3.2	-44.4	
164/10:23:01	74 07.0	018 49.9	0459	205.2	005	265	32964	31606	1.9	1.0	-3.1	-46.3	
164/10:24:01	74 00.1	018 38.4	0459	208.2	006	279	32969	31616	1.8	0.0	-7.1	-45.0	
164/10:25:01	73 53.1	018 25.5	0460	205.0	006	291	32963	31605	1.7	-5.4	1.9	-46.7	
164/10:26:01	73 45.9	018 16.6	0463	197.8	007	294	32967	31631	1.7	-0.5	-10.3	-47.1	
164/10:27:01	73 38.6	018 08.7	0464	197.2	010	286	32970	31630	1.7	-0.3	1.6	-46.3	
164/10:28:01	73 31.1	018 01.4	0465	196.8	008	288	32968	31615	1.7	0.2	1.8	-45.0	
164/10:29:01	73 23.7	017 53.9	0465	197.1	010	284	32965	31620	1.8	-0.2	1.4	-45.6	
164/10:30:01	73 16.4	017 46.8	0466	197.3	013	295	32966	31653	2.1	-0.2	2.3	-46.6	
164/10:31:01	73 08.7	017 39.4	0466	196.8	011	291	32973	31654	1.7	0.0	2.4	-45.7	
164/10:32:01	73 01.3	017 32.3	0466	197.0	011	290	32971	31656	1.7	0.0	2.5	-46.2	
164/10:33:01	72 53.9	017 25.4	0467	196.9	[illegible]13	294	32966	31664	1.7	0.0	-2.4	-46.0	
164/10:34:01	72 46.3	017 18.3	0467	196.9	[illegible]13	292	32975	31652	1.6	0.2	2.4	-46.4	
164/10:34:57	72 39.4	017 12.0	0467	196.7	012	293	32966	31642	1.7	-0.3	1.2	-45.6	MAR - OCEAN SEEMS TO BE CALM, SWELS BUT NO WHITE CAPS.
164/10:35:01	72 39.0	017 11.5	0467	196.7	013	300	32972	31678	1.7	0.0	1.5	-45.4	
164/10:36:01	72 31.5	017 04.7	0469	197.0	016	295	32968	31659	1.8	0.1	-7.6	-46.5	
164/10:37:01	72 23.9	016 58.1	0469	196.7	015	298	32977	31701	1.7	0.0	-13.9	-45.7	
164/10:38:01	72 16.3	016 51.2	0470	196.6	015	301	32966	31681	1.8	0.1	2.7	-45.0	
164/10:39:01	72 09.0	016 44.8	0470	196.6	015	298	32965	31672	1.6	0.0	-9.4	-46.9	
164/10:40:01	72 01.2	016 38.2	0471	196.2	017	309	32955	31694	1.7	0.3	-9.0	-44.9	
164/10:41:01	71 53.7	016 31.9	0470	196.4	014	296	32969	31706	1.6	0.0	0.8	-46.3	
164/10:42:01	71 46.2	016 25.9	0470	196.1	016	294	32967	31718	1.7	0.1	2.6	-45.8	
164/10:43:01	71 38.6	016 19.6	0470	196.1	015	301	32965	31716	1.6	0.2	-6.1	-45.3	
164/10:44:01	71 31.1	016 13.6	0470	196.2	016	309	32972	31718	1.6	-0.2	-6.1	-46.5	
164/10:44:23	71 28.2	016 11.6	0470	196.2	017	299	32981	31743	1.7	0.2	0.4	-45.8	10 43 28 INS - 71 34.9N LON 16 16.9E.
164/10:44:35	71 26.6	016 10.2	0470	196.2	016	302	32980	31762	1.6	-0.3	0.1	-45.3	LORAN C - 71 51.6N LON 16 34.5E.
164/10:45:01	71 23.4	016 07.7	0470	196.2	017	302	32976	31747	1.6	-0.4	-4.6	-45.6	
164/10:45:09	71 22.3	016 06.8	0470	196.2	018	300	32967	31715	1.6	0.0	-6.3	-44.2	BACK ON EXTENDED RANGE USING NORWEIGEN NET.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 6 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
164/10:46:01	71 15.8	016 01.8	0471	196.3	018	293	32978	31732	1.6	0.0	-11.4	-47.2	
164/10:47:01	71 08.2	015 55.8	0472	195.9	018	303	32969	31723	1.7	0.1	-10.1	-45.8	
164/10:48:01	71 00.5	015 52.1	0478	180.9	020	307	32971	31774	1.6	-4.7	-12.0	-45.7	
164/10:49:01	70 52.5	015 53.0	0478	180.6	021	302	32974	31762	1.5	0.3	-13.9	-44.9	
164/10:50:01	70 44.6	015 53.4	0481	180.4	021	305	32577	31337	-0.1	-0.4	-12.0	-46.9	STARTED DESCEND.
164/10:51:01	70 36.9	015 54.0	0472	181.2	026	300	31181	30005	0.0	1.2	-15.4	-49.2	
164/10:52:01	70 28.8	015 54.6	0465	181.8	026	294	29237	28003	-1.4	0.3	-13.5	-48.4	
164/10:53:01	70 21.2	015 55.2	0460	181.8	026	293	26929	25092	-1.7	0.5	-10.5	-47.2	
164/10:54:01	70 13.8	015 55.8	0452	182.2	031	299	24665	23737	-1.6	0.6	-7.9	-42.9	
164/10:55:01	70 06.1	015 56.5	0441	181.9	030	306	22544	21704	-1.3	0.0	-6.4	-37.5	
164/10:56:01	69 57.2	015 56.8	0424	182.1	027	298	20744	19934	-1.1	0.2	4.1	-33.8	
164/10:57:01	69 52.3	015 57.4	0414	183.0	030	300	19939	19274	1.3	0.5	5.7	-32.3	
164/10:58:01	69 45.2	015 59.2	0420	157.6	028	299	20042	19366	0.8	-20.8	5.0	-31.8	
164/10:59:01	69 39.1	016 06.8	0402	194.2	032	296	20012	19327	2.0	30.5	4.1	-30.1	
164/11:00:01	69 35.4	015 54.0	0370	257.2	034	292	19971	19287	1.3	-0.5	6.1	-31.1	
164/11:00:05	69 35.2	015 52.4	0370	257.1	032	292	19971	19291	1.3	-0.5	6.1	-30.5	CAMERAS ON - NADIR 3 ONLY.
164/11:01:01	69 31.2	015 42.3	0409	178.7	029	304	19933	19284	0.9	-5.3	2.5	-30.8	
164/11:02:01	69 24.5	015 42.3	0408	183.8	027	291	19920	19315	1.2	-1.9	-7.9	-30.8	
164/11:02:49	69 19.0	015 42.5	0410	180.9	026	293	19939	19319	1.4	-0.7	-3.7	-27.7	=== START OF RUN 8 TIME 11.02.50 LAT 6919.0 N LON 01542.5 E FL 199
164/11:03:01	69 17.8	015 42.7	0410	181.0	026	291	19998	19324	1.2	0.9	-6.2	-31.2	
164/11:04:01	69 10.8	015 42.9	0410	181.7	027	292	19999	19345	1.2	0.2	-6.7	-30.0	
164/11:05:01	69 04.0	015 43.7	0410	181.6	026	286	19999	19261	1.2	0.0	-5.7	-31.7	DESIGNING OF ISLAND.
164/11:06:01	68 57.3	015 44.2	0410	181.4	026	286	19999	19326	1.2	0.1	-6.8	-30.8	
164/11:06:11	68 56.0	015 44.6	0410	181.4	026	286	19999	19333	1.3	0.3	-6.6	-30.9	WATER ON LEFT SIDE UNDER AIRCRAFT.
164/11:06:15	68 55.7	015 44.6	0410	181.4	025	285	19999	19328	1.0	0.2	-6.3	-30.8	OFF ISLAND.
164/11:06:33	68 53.4	015 44.8	0410	181.3	026	289	19999	19341	1.2	0.1	-5.1	-29.9	!!! END OF RUN 8 TIME 11.06.34 LAT 6853.3 N LON 01546.9 E FL 199
164/11:07:01	68 50.4	015 45.1	0411	181.3	026	289	19999	17441	1.1	-0.1	-7.8	-31.3	
164/11:07:09	68 49.6	015 45.2	0411	180.6	025	287	20003	18498	2.5	-17.8	-10.3	-29.8	CAMERAS OFF.
164/11:08:01	68 44.2	015 52.9	0426	142.8	024	294	19954	19330	0.9	14.7	-11.7	-29.4	
164/11:09:01	68 38.0	015 59.9	0435	139.3	028	293	19399	18724	-6.5	-38.9	-12.4	-29.6	
164/11:10:00	68 35.9	016 15.4	0331	042.1	039	299	20536	18797	-17.9	-13.8	-13.5	-33.4	
164/11:11:59	00 00.0	000 00.0	0000	000.0	000	000	14382	13978	-1.4	-4.2	-13.1	-18.2	
164/11:12:01	68 30.7	016 36.8	0312	171.9	027	264	14271	13876	-1.1	-7.0	-12.6	-18.8	
164/11:13:01	68 25.9	016 40.8	0275	175.0	031	247	11871	11512	4.4	9.6	-11.3	-14.3	
164/11:14:01	68 23.7	016 34.6	0213	268.7	028	259	11192	10902	0.5	13.4	-10.2	-13.8	
164/11:15:01	68 23.7	016 24.4	0231	265.5	022	241	9610	8844	2.4	-10.0	-9.8	-11.1	
164/11:16:01	68 22.9	016 14.5	0223	255.5	020	246	6653	6904	1.7	-0.1	-7.6	-0.4	
164/11:17:01	68 22.5	016 05.0	0207	294.3	015	256	7977	7778	3.7	25.4	-2.9	-0.6	
164/11:18:01	68 25.3	016 06.1	0220	054.9	015	237	7074	6877	3.1	-4.0	-0.5	-6.1	
164/11:19:01	68 27.5	016 14.2	0223	052.9	016	229	6115	4766	3.3	5.1	0.0	-3.5	
164/11:20:01	68 29.4	016 22.1	0217	050.3	018	239	5393	4959	5.7	-0.1	-1.1	-5.2	
164/11:21:01	68 31.3	016 31.1	0206	061.6	012	235	5007	5667	3.9	0.9	-1.5	-4.5	
164/11:22:01	68 32.9	016 38.3	0108	038.0	015	249	5901	5511	4.8	-1.2	-0.8	-5.6	
164/11:23:01	68 35.7	016 39.6	0109	352.7	014	226	5736	4693	2.1	-9.7	6.6	-2.4	
164/11:24:01	68 38.7	016 37.3	0100	341.1	008	247	4942	4834	0.0	2.2	-1.3	-3.9	
164/11:25:01	68 41.3	016 38.8	0184	093.0	015	215	3435	3364	1.2	28.0	5.9	-2.0	
164/11:26:01	68 39.4	016 41.0	0145	193.3	011	214	2939	2939	3.9	-4.7	9.2	-0.2	
164/11:27:01	68 36.9	016 40.7	0146	180.7	013	200	2524	2272	5.1	0.0	10.9	1.4	
164/11:28:01	68 34.6	016 40.7	0145	178.4	014	181	2543	2119	4.4	1.5	9.2	-0.5	
164/11:29:01	68 32.3	016 41.0	0143	177.3	012	170	1653	1521	-0.5	0.6	9.3	2.1	
164/11:30:01	68 29.9	016 41.3	0146	174.9	006	136	605	333	-0.4	1.7	9.9	6.1	

3.4 Third data flight—Day 170—Evenes RT

All instruments were operational.

In spite of the fact that our replacement spoiler was delivered late Sunday evening rather than in the morning as scheduled because SAS bumped that cargo at Oslo in favor of a shipment of flowers, our stalwart ground crew completed the repairs in time for today's flight.

On the basis of weather predictions from Tromso, we elected to fly Pattern 'E', the four-leg pattern extending about 350 Km north of the ice edge in the hopes of realizing below-freezing conditions over the entire mosaic. Instead, we found freezing conditions in the MIZEX box and near-melt conditions further north! This was coupled with observations of scattered ice-clouds over MIZEX and heavy clouds north of there. If we were to try another Pattern 'E', we should want to make sure that clear conditions are firmly forecast or observed over the entire area.

Out pattern was situated such that the projected position of the Polarqueen would have been directly underneath us on the third leg of the pattern; her updated position as of 1500 GMT received just prior to takeoff placed her between legs 3 & 4.

We were startled to find the sea ice extending some 110 Km south of the edge as observed on the first leg; possibly we were observing part of an eddy. This information was radioed to the Polarqueen as we departed the area.

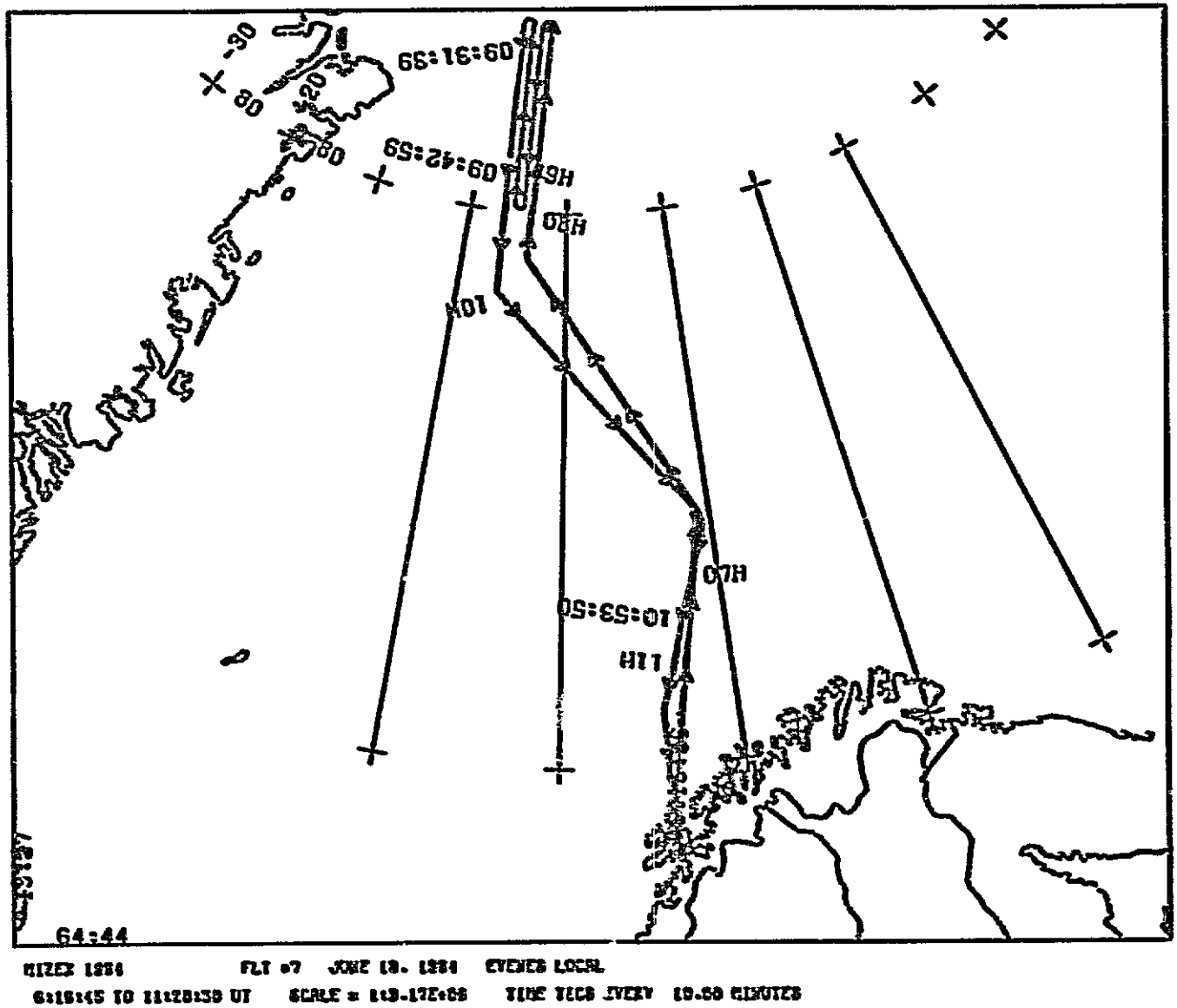


Figure 9. Flight tracks: Evenes RT 6/16

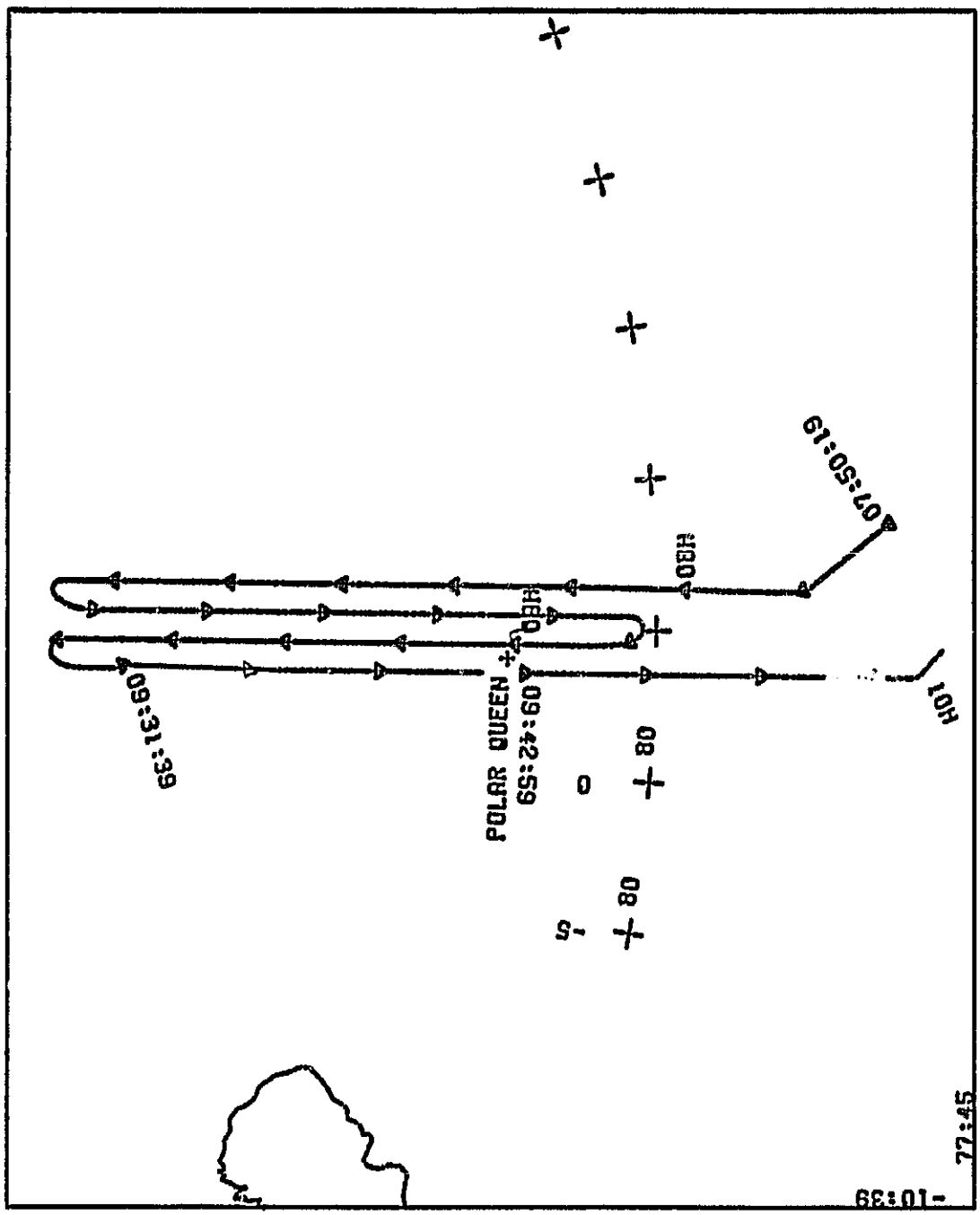


Figure 10. Mosaic pattern: 6/16

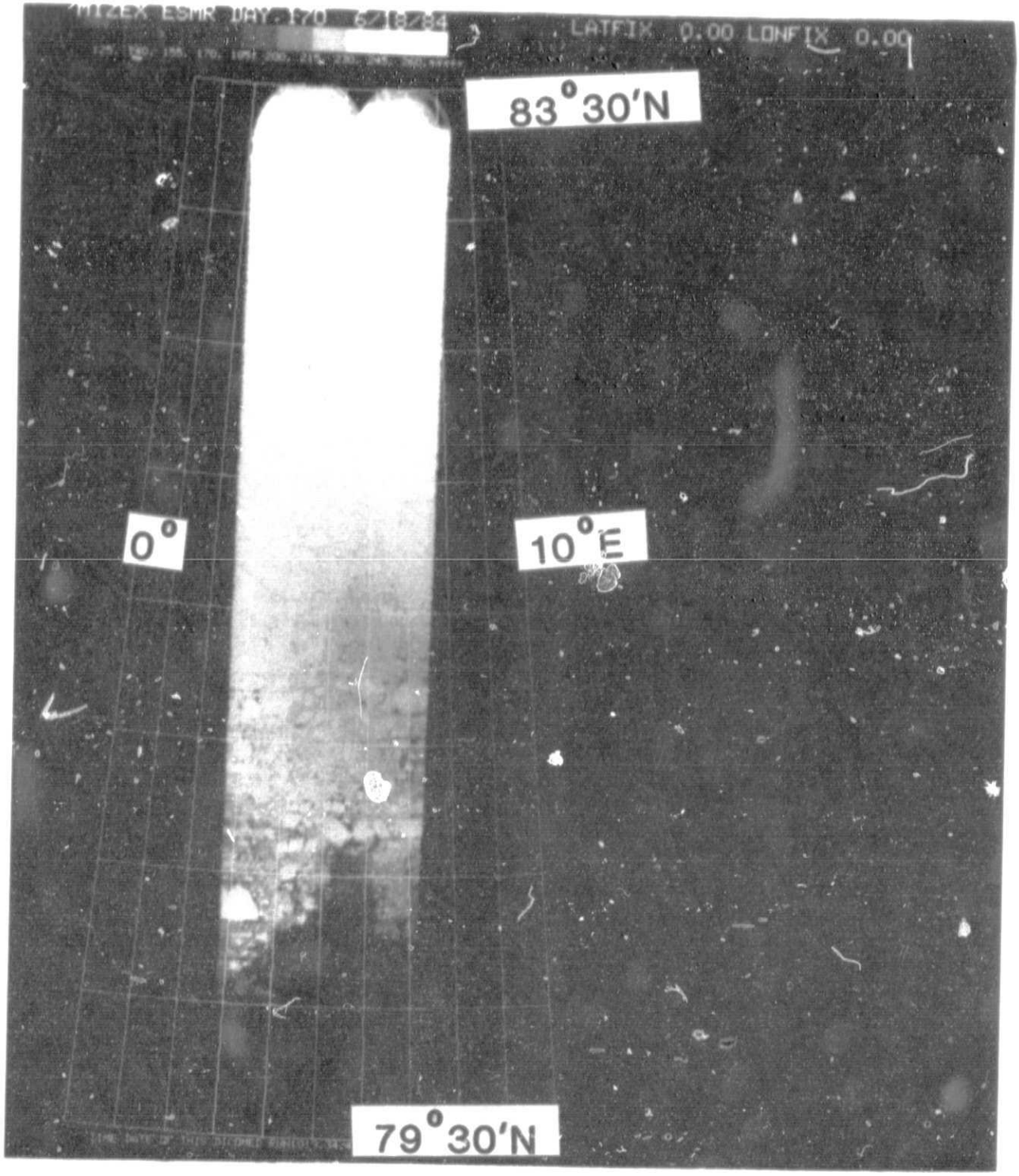


Figure 11. ESMR mosaic: 6/16

YEAR 1984 ADDAS FLIGHT LOG — FLIGHT NO. 7 — HIZEN

---TIME---	--LAT--	--LONG--	GRD TRUE SPD HEAD	+HDG-- SPD DIR	-ALTITUDE-- PRES RADAR	PTCH	ROLL	--TEMP-- IR	AIR	
170/06:02:57	00 00.0	000 00.0	0000 000.0	000 000	4954	0.2	-0.4	25.7	10.6	
170/06:03:01	68 29.5	016 40.5	0000 090.1	118 089	4962	0.1	-0.6	25.6	10.2	
170/06:04:01	68 29.5	016 40.5	0000 090.1	118 090	4999	0.2	-0.5	22.3	9.1	
170/06:05:01	68 29.5	016 40.5	0000 090.1	118 089	4986	0.2	-0.6	19.5	8.0	
170/06:06:01	68 29.5	016 40.5	0000 090.1	118 089	4931	0.2	-0.5	17.0	8.5	
170/06:07:01	68 29.5	016 40.5	0006 354.9	112 357	4978	-1.0	-1.5	15.0	9.5	
170/06:08:01	68 29.6	016 40.2	0010 267.7	103 267	4988	0.2	-0.7	13.7	9.3	
170/06:09:01	68 29.8	016 40.2	0017 357.3	102 357	4951	-0.9	-0.7	14.0	6.9	
170/06:10:01	68 30.1	016 40.0	0020 358.3	099 358	4976	-0.7	-0.5	14.1	9.0	
170/06:11:01	68 30.4	016 40.2	0005 342.4	113 346	4983	-0.1	0.2	14.2	10.0	
170/06:12:01	68 30.5	016 40.2	0000 184.9	118 184	4979	-1.0	-1.5	14.3	7.7	
170/06:13:01	68 28.9	016 40.2	0172 179.0	002 253	325	15.6	-1.0	14.3	8.2	
170/06:14:01	68 26.6	016 37.4	0208 266.4	006 200	2037	9.4	11.0	14.2	5.5	
170/06:15:01	68 26.4	016 27.2	0241 249.3	020 223	3082	6.2	-2.4	14.0	5.2	
170/06:16:01	68 24.6	016 16.3	0261 242.9	020 223	5827	4.9	0.9	13.6	-1.2	
170/06:16:07	68 24.5	016 15.6	0264 243.1	018 220	5882	4.3	2.5	13.4	-2.5	TAKE OFF TIME 0
170/06:17:01	68 24.0	016 04.6	0306 301.5	009 215	5946	3.2	28.2	13.2	-0.5	
170/06:17:11	68 24.6	016 02.9	0317 318.7	011 217	5929	2.7	27.1	13.2	-0.8	TAKE OFF TIME 06 12 46
170/06:17:15	68 24.8	016 02.2	0320 315.0	013 217	5944	2.7	27.1	13.2	-0.9	JULIAN DAY 170
170/06:17:23	68 25.4	016 01.2	0326 337.0	009 220	5943	4.0	27.1	13.2	0.3	BROKE THROUGH STRATOCUMULUS DECK.
170/06:17:27	68 25.7	016 01.1	0328 348.0	008 212	5976	4.6	26.9	13.4	-0.8	JUNE 18, 1984
170/06:17:29	68 26.0	016 00.9	0329 351.3	010 220	6010	4.8	23.8	13.2	0.6	FLIGHT 7
170/06:17:33	68 26.5	016 00.8	0330 355.2	012 217	6091	4.3	14.6	13.3	0.5	EVENES/EVENES.
170/06:17:41	68 27.3	016 00.7	0334 000.2	014 221	6230	4.3	6.5	13.5	-1.7	16 15 18 NADIR 1 OPEN.
170/06:17:53	68 28.1	016 01.1	0343 005.7	016 222	6499	4.0	4.3	13.6	-2.3	C-BAUD TRANSPONDER HAS BEEN ON SINCE BEFORE T/O.
170/06:18:01	68 28.9	016 01.3	0347 008.3	017 226	6650	4.1	6.2	13.6	-2.4	
170/06:18:15	68 30.1	016 02.0	0355 010.4	018 238	6919	3.6	0.8	13.5	-1.9	W/P 1 68-20.1 16-03.2E
170/06:18:25	68 31.3	016 02.7	0355 011.5	011 246	7270	3.2	0.0	13.7	-3.1	W/P 2 69-11.0 16-01.7E
170/06:18:37	68 32.3	016 03.4	0351 011.3	009 266	7798	6.5	-0.7	13.8	-4.5	W/P 3 69-17.3 16-00.1E
170/06:18:47	68 33.4	016 03.9	0347 009.5	008 246	8272	6.6	-7.6	13.7	-5.6	W/P 4 74-30.0 19-15.0E BEAR ISLAND
170/06:18:55	68 34.0	016 04.3	0345 005.2	010 273	8631	8.1	-4.0	13.7	-4.6	CORRECTION:ISLAND.
170/06:19:01	68 34.7	016 04.3	0338 003.8	013 269	8966	8.2	-3.4	13.5	-4.1	
170/06:19:09	68 35.4	016 04.6	0332 001.7	018 282	9378	8.0	-3.4	7.4	-5.7	W/P 5 79-09.8 6-11.5E
170/06:19:19	68 36.4	016 04.7	0322 359.2	020 281	9836	5.7	-4.2	-6.2	-5.0	W/P 6 80-09.7 6-27.1E
170/06:19:33	68 37.5	016 04.9	0320 356.4	020 263	10003	3.3	-2.3	-3.9	-5.2	W/P 7 83-19.5 7-22.1E
170/06:19:45	68 38.6	016 04.9	0321 355.2	019 256	10008	3.4	-1.9	-5.5	-4.4	W/P 8 83-19.5N 5-46.1E
170/06:19:57	68 39.6	016 04.7	0323 354.3	016 268	9999	3.5	-0.8	-4.8	-5.1	W/P 1' 80-09.9 5-28.5E
170/06:20:01	68 40.1	016 04.6	0323 354.2	015 266	10010	3.2	-0.5	-4.5	-5.4	
170/06:20:09	68 40.7	016 04.6	0325 353.9	015 261	10015	2.9	-0.4	-3.2	-5.5	W/P 2' 80-10.0 4-30.0E
170/06:20:23	68 42.1	016 04.3	0328 353.7	015 256	10005	2.8	0.2	-2.4	-5.2	W/P 3' 83-20.0N 4-30.0E
170/06:20:41	68 43.6	016 04.1	0331 353.9	016 252	9993	2.7	0.7	-4.7	-5.2	W/P 4' 83-19.9 3-03.5E
170/06:20:51	68 44.5	016 04.0	0334 354.6	016 251	9990	2.9	0.7	-5.3	-5.2	W/P 5' 80-09.9 3-03.9E
170/06:21:01	68 45.5	016 03.9	0335 354.9	017 250	9982	2.7	0.5	-5.8	-4.7	
170/06:21:25	68 47.8	016 03.5	0341 354.4	014 260	10007	2.0	0.3	-4.4	-5.4	CORRECTION: W/P 5' 80-09.9 3-31.5E
170/06:21:39	68 49.0	016 03.3	0344 354.4	015 257	9992	2.4	0.4	-4.7	-6.9	W/P 6' 79-09.9 3-37.1E
170/06:21:53	68 50.4	016 03.0	0346 354.5	014 252	9983	2.5	0.5	-4.7	-4.0	W/P 7' 74-20.0 19-15.0E BEAR ISLAND.
170/06:22:01	68 51.2	016 02.9	0347 354.5	016 248	9989	2.5	0.5	-4.9	-6.5	
170/06:22:11	68 52.0	016 02.8	0349 354.4	016 246	9969	2.5	0.4	-4.7	-6.2	
170/06:22:25	68 53.6	016 02.7	0351 354.3	015 252	9947	2.5	0.4	-5.3	-6.2	W/P 8' 71-02.1 15-52.7E IP
170/06:22:47	68 55.5	016 02.3	0353 354.3	017 252	9928	2.4	0.7	-4.8	-5.4	W/P 2" 69-17.3 16-00.1E
170/06:22:59	68 56.8	016 02.2	0354 354.5	016 256	9997	2.1	0.2	-5.0	-6.1	W/P 3" 68-22.1 15-54.7 RTV
170/06:23:01	68 57.1	016 02.1	0354 354.5	016 251	9997	2.0	0.4	-5.0	-6.1	W/P 4"68-27.5 16-41.2 EVN
170/06:23:17	68 58.6	016 01.9	0356 354.2	016 254	9992	2.0	0.4	-5.5	-6.7	JOE- TAKING DATA AT TAKEOFF BUT NOT IN REAL TIME MODE.
170/06:23:31	69 00.0	016 01.8	0357 354.2	016 251	9985	2.2	0.6	-4.8	-6.8	W/P 9 68-29.5 16-40.7E ENEV.
170/06:23:51	69 02.0	016 01.3	0357 354.0	019 254	9969	2.3	0.5	-5.2	-6.3	W/P 5" 68-35.9 16-40.5 FS.
170/06:24:01	69 02.8	016 01.2	0357 354.3	018 245	9959	2.2	0.4	-4.7	-6.1	
170/06:24:05	69 03.4	016 01.1	0356 354.2	017 252	9966	2.4	0.3	-4.3	-6.5	
170/06:25:01	69 08.9	016 00.4	0353 354.4	017 257	9974	2.2	0.4	-4.9	-6.2	
170/06:26:01	69 14.6	016 00.8	0352 359.7	018 255	9970	2.2	-6.4	-4.0	-7.5	
170/06:27:01	69 20.4	016 01.3	0352 003.3	017 257	9967	2.4	2.7	-4.1	-7.2	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 7 --- MIZEX

-----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
170/06:27:17	69 22.0	016 01.9	0352	004.6	017	266	9963	9907	2.4	2.3	-4.1	-6.9	!!! END OF RUN 1 TIME 06.27.18 LAT 6922.0 N LON 01601.9 E FL 99
170/06:28:01	69 26.4	016 03.8	0356	006.4	018	271	9979	9915	2.3	0.5	-4.5	-5.9	
170/06:29:01	69 32.2	016 06.8	0376	009.2	015	263	11141	11031	5.3	-0.9	-4.1	-7.1	
170/06:29:03	69 32.6	016 06.9	0377	009.2	016	264	11217	11103	5.2	-1.0	-3.7	-7.8	06 25 45 START OF RUN 1.
170/06:30:01	69 38.3	016 09.8	0379	005.4	024	266	13238	13152	4.9	0.2	-4.4	-10.9	
170/06:31:01	69 44.8	016 13.0	0385	006.1	024	256	15049	14950	4.9	-0.2	-5.3	-11.7	
170/06:32:01	69 51.1	016 16.1	0388	005.6	031	254	16777	16713	5.0	0.1	-5.6	-15.7	
170/06:33:01	69 57.4	016 19.3	0388	006.0	031	272	18578	18502	5.0	4.9	-4.3	-21.4	
170/06:34:01	70 03.9	016 22.7	0388	005.6	032	262	20216	20170	5.1	0.6	-4.6	-25.3	
170/06:35:01	70 10.1	016 26.4	0392	006.0	034	251	21675	21612	5.3	-1.4	-3.7	-26.0	
170/06:36:01	70 16.5	016 29.3	0399	003.5	036	252	22688	22842	4.9	1.3	-3.6	-31.0	
170/06:37:01	70 23.3	016 32.6	0410	004.1	041	252	23903	23803	4.5	0.0	-2.2	-34.4	
170/06:38:01	70 30.0	016 35.9	0418	003.5	046	252	24830	24730	3.9	0.5	-3.8	-36.9	
170/06:39:01	70 36.9	016 39.8	0429	005.7	047	256	25695	25567	4.0	-4.1	-5.0	-38.1	
170/06:40:01	70 44.1	016 43.2	0429	002.3	043	257	26695	26536	4.0	-0.4	-2.7	-41.5	
170/06:41:01	70 51.0	016 46.5	0435	006.0	047	260	27586	27398	3.9	1.3	-2.9	-43.6	
170/06:42:01	70 58.0	016 51.0	0438	004.2	051	261	28391	28183	3.7	-0.4	-7.3	-45.1	
170/06:42:47	71 03.6	016 54.3	0442	004.0	050	260	28919	28688	3.7	0.0	-7.1	-46.5	ADDAS PRINTCHECK BETWEEN ADDAS AND MOC ARE OKAY.
170/06:43:01	71 05.5	016 55.2	0443	003.9	050	262	29101	28860	3.7	0.1	-7.1	-47.7	
170/06:43:27	71 08.3	016 56.8	0444	003.7	051	261	29415	29143	3.7	-0.2	-7.9	-48.5	POLAR QUEEN - 0500Z 170, LAT 80 50.2N LON 4 00.0E.
170/06:44:01	71 12.5	016 59.3	0445	005.7	051	261	29796	29525	3.8	0.0	-8.2	-49.5	
170/06:45:01	71 19.7	017 03.3	0444	004.5	047	262	30623	30315	3.9	-0.2	-4.1	-50.8	
170/06:45:35	71 23.8	017 05.7	0445	004.7	045	260	31036	30697	3.3	-0.3	3.5	-50.5	LEAVING 10/10 STRATUSCUMULUS DECK AND IS CLEARING.
170/06:45:59	71 27.1	017 07.5	0445	004.9	044	263	31307	30941	3.8	0.3	4.0	-53.0	CORRECTION: STRATOCUMULUS.
170/06:46:01	71 27.2	017 07.6	0445	004.8	044	263	31327	30967	3.8	0.1	4.0	-53.2	
170/06:47:01	71 34.3	017 11.8	0445	005.1	042	264	31996	31592	3.8	0.1	4.2	-53.4	
170/06:47:37	71 38.8	017 14.5	0445	005.0	042	264	32375	31973	3.6	0.0	4.7	-55.9	AIN - MARE IS TAKING DATA 06 47 00.
170/06:48:01	71 41.6	017 16.2	0444	004.8	045	266	32630	32249	3.8	-0.4	4.7	-57.4	LIGHT SHELL AND NO WHITE CAPS.
170/06:48:23	71 44.4	017 17.9	0444	004.8	045	265	32821	32423	3.8	0.5	3.4	-56.4	50 PERCENT STRATOCUMULUS.
170/06:48:35	71 45.8	017 18.6	0444	004.4	048	267	32956	32548	3.7	-0.4	3.0	-56.3	HEAVIER ON EITHER SIDE.
170/06:48:51	71 47.7	017 19.8	0446	004.4	049	266	32965	32567	3.2	0.3	5.0	-56.2	HEAVIER CLOUD DECK ON EITHER SIDE.
170/06:49:01	71 49.1	017 20.6	0448	004.6	047	264	32987	32579	2.8	0.4	5.1	-55.3	
170/06:49:45	71 54.4	017 23.8	0458	004.6	048	265	33003	32563	2.5	0.5	-1.0	-56.1	LOOKING FORWARD JUST PATCHES OF LOW LEVEL CUMULUS BUT CLEARING.
170/06:50:01	71 56.4	017 25.1	0461	004.7	047	265	32988	32538	2.3	-0.2	-0.8	-55.5	
170/06:51:00	72 03.6	017 29.5	0473	004.8	051	266	32965	32502	2.3	0.0	-1.7	-56.5	
170/06:52:00	72 11.7	017 34.6	0482	004.9	049	269	32962	32445	2.2	-0.1	-0.3	-56.6	
170/06:53:00	72 19.5	017 39.4	0484	005.0	050	270	32958	32430	2.0	0.7	-4.6	-56.5	
170/06:54:00	72 27.3	017 44.5	0484	005.3	048	269	32963	32434	2.3	0.2	-4.5	-57.4	
170/06:54:44	72 33.2	017 48.3	0483	005.0	050	271	32964	32417	2.0	0.7	-9.6	-59.7	AVERAGE MARE DATA FREQUENCY 1.3 POINTS PER SECOND.
170/06:54:54	72 34.3	017 49.0	0483	005.1	050	272	32977	32434	2.1	0.4	-3.9	-58.4	WILL TRY SOFTWARE ON NEXT RUN.
170/06:55:00	72 35.3	017 49.7	0483	005.0	051	273	32976	32401	1.8	0.0	-3.6	-58.6	
170/06:56:00	72 43.1	017 55.0	0479	005.5	049	274	32962	32401	2.0	0.1	-7.6	-56.9	
170/06:57:00	72 50.7	018 00.2	0474	005.7	046	274	32957	32398	2.0	0.1	-4.2	-55.9	
170/06:58:00	72 58.5	018 05.5	0470	005.8	045	274	32948	32377	2.1	0.1	-3.2	-56.7	
170/06:59:00	73 06.1	018 10.7	0466	005.7	047	279	32949	32368	2.2	-0.1	-3.3	-54.6	
170/07:00:00	73 13.6	018 16.1	0462	006.2	044	278	32961	32383	2.3	-0.5	3.6	-56.2	
170/07:00:28	73 17.1	018 18.6	0461	006.0	044	280	32953	32362	2.3	-0.3	3.4	-56.4	OVER CLEAR PATCH AND LIGHT SHELL.
170/07:00:32	73 17.6	018 18.8	0461	006.1	042	279	32945	32355	2.4	-0.4	3.9	-54.9	NO WHITE CAPS.
170/07:00:42	73 19.0	018 19.7	0460	006.1	043	277	32947	32361	2.5	-0.2	1.9	-56.8	9/10 STRATOCUMULUS AND NO UPPER CLOUDS.
170/07:01:00	73 21.2	018 21.2	0460	006.3	042	277	32947	32353	2.5	0.3	3.9	-56.9	
170/07:02:00	73 28.5	018 26.8	0458	006.7	041	277	32965	32375	2.3	0.0	-0.6	-56.6	
170/07:03:00	73 36.0	018 32.1	0458	007.0	038	280	32958	32356	2.4	0.5	-10.7	-54.8	
170/07:04:00	73 43.6	018 38.0	0457	007.1	039	281	32975	32348	2.4	0.1	-16.4	-55.5	
170/07:05:31	00 00.0	000 00.0	0000	000.0	000	000	32965	32320	2.3	0.6	-12.9	-55.9	
170/07:05:51	73 57.4	018 48.4	0458	007.0	040	280	32961	32342	2.4	-0.1	-13.5	-55.5	ADDAS UP 07 05 40 MENT DOWN 07 04 00.
170/07:06:01	73 58.6	018 49.5	0458	007.0	043	283	32964	32311	2.5	-0.5	-13.9	-54.5	
170/07:06:05	73 59.1	018 49.8	0458	006.8	042	282	32975	32322	2.3	-0.4	-13.5	-56.4	07 04 20 10/10 STRATOCUMULUS WITH NO UPPER CLOUDS.
170/07:07:01	74 06.1	018 55.3	0458	007.1	041	278	32964	32296	2.3	0.2	-13.7	-56.2	
170/07:07:21	74 08.6	018 57.2	0459	007.2	040	277	32966	32303	2.4	0.3	-13.5	-56.0	TO THE WEST THERE ARE CIRRUS CLOUDS ASSOCIATED WITH LOW CENTER.
170/07:08:01	74 13.5	019 01.2	0459	007.2	041	274	32949	32261	2.6	0.6	-14.2	-55.9	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 7 --- MIZEX

-----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
170/07:09:01	74 20.9	019 07.3	0460	007.'	042	274	32953	32244	2.6	0.0	-14.4	-54.4	
170/07:10:01	74 28.5	019 12.4	0452	354..	046	270	32973	32105	2.5	-18.5	-14.7	-54.7	
170/07:11:01	74 35.4	019 04.8	0438	330.0	041	273	32966	32229	2.5	-2.3	-14.2	-55.2	
170/07:11:55	74 41.1	018 53.7	0439	328.5	041	270	32963	32239	2.3	0 7	-13.8	-56.7	TURNED TRANSPONDER OFF .r 07 11 50 OVER BEAR ISLAND.
170/07:12:01	74 41.8	018 52.5	0439	328.6	041	271	32963	32207	2.3	0.1	-14.5	-55.8	
170/07:12:17	74 43.7	018 49.0	0440	328.5	041	272	32965	32235	2.4	0.6	-14.0	-55.6	SEEMS TO NOT HAVE ANY AFFECT ON GEORGIA TECHS DATA.
170/07:13:01	74 48.4	018 39.7	0440	328.5	046	278	32966	32212	2.2	0.4	-16.5	-54.7	
170/07:14:01	74 55.0	018 27.2	0440	328.1	047	277	32958	32229	2.1	0.5	-15.1	-54.2	
170/07:15:01	75 01.3	018 14.3	0439	328.4	047	282	32978	32268	2.1	0.6	-14.3	-55.0	
170/07:16:01	75 08.0	018 01.4	0440	328.3	041	278	32953	32140	2.4	-0.1	-16.8	-54.1	
170/07:16:21	75 10.1	017 57.1	0440	328.5	038	275	32942	32135	2.4	0.5	-17.1	-52.7	10/10 STRATOCUMULUS, APPROACHING MIZEX AREA, NO CLEAR PATCHES, NO UPPER CLOUDS.
170/07:17:01	75 14.4	017 47.9	0441	328.1	038	271	32947	32157	2.6	0.1	-13.5	-54.1	
170/07:18:01	75 20.9	017 34.9	0441	327.7	039	266	32956	32149	2.5	-0.4	-12.8	-53.3	
170/07:19:01	75 27.4	017 20.6	0443	327.5	03°	268	32966	32128	2.3	0.0	-13.9	-53.5	
170/07:20:01	75 33.9	017 07.1	0444	327.2	041	270	32961	32100	2.4	0.4	-15.4	-51.9	
170/07:21:01	75 40.3	016 53.1	0443	327.1	045	275	32957	32080	2.2	-0.3	-6.8	-51.9	
170/07:22:01	75 46.9	016 38.2	0443	327.0	041	275	32953	32068	2.3	0.3	-11.9	-51.6	
170/07:23:01	75 53.3	016 23.8	0443	326.8	040	272	32956	32068	2.3	-0.4	-13.3	-50.2	
170/07:24:01	75 59.5	016 09.4	0443	326.6	039	276	32969	32073	2.1	0.3	-11.9	-51.5	
170/07:25:01	76 06.1	015 54.3	0444	326.3	038	272	32964	32059	2.3	0.5	-12.4	-52.1	
170/07:26:01	76 12.5	015 38.9	0444	326.4	039	275	32960	32057	2.3	-0.1	-11.1	-50.9	
170/07:27:01	76 18.8	015 23.9	0444	326.1	038	273	32951	32048	2.4	-0.1	-15.9	-51.0	
170/07:28:01	76 25.3	015 07.7	0444	325.8	040	275	32960	32008	2.1	-0.3	-15.8	-53.5	
170/07:29:01	76 31.5	014 51.9	0444	325.7	040	280	32964	31985	1.8	0.3	-12.0	-53.7	
170/07:30:01	76 37.7	014 35.9	0444	325.5	042	278	32968	31980	2.0	0.4	-18.7	-50.8	
170/07:31:01	76 44.3	014 19.2	0443	325.0	043	280	32963	31983	2.4	-0.2	-15.3	-51.4	
170/07:32:01	76 50.5	014 02.8	0442	324.7	041	281	32958	31931	2.2	-0.2	-16.9	-52.2	
170/07:32:09	76 51.2	014 00.7	0442	324.7	041	279	32957	31971	2.2	0.4	-18.1	-52.2	NADIR KS87 IS BLOWING THE CAMERA FUSES.
170/07:33:01	76 56.7	013 46.2	0441	324.4	042	277	32958	31968	2.0	0.0	-13.2	-52.2	
170/07:34:01	77 03.2	013 28.4	0441	324.2	040	277	32962	31979	2.2	-0.3	-11.5	-50.9	
170/07:35:01	77 09.3	013 11.4	0440	323.9	039	274	32963	31983	2.3	0.6	-12.0	-50.0	
170/07:36:01	77 15.4	012 53.8	0440	323.3	041	276	32959	31954	2.2	0.2	-11.1	-50.9	
170/07:37:01	77 21.6	012 35.4	0439	323.5	042	281	32962	31941	2.2	-0.5	-10.6	-50.2	
170/07:38:01	77 27.7	012 17.3	0438	323.5	038	279	32965	31946	2.2	-0.3	-9.5	-50.1	
170/07:39:01	77 33.6	011 58.9	0436	323.3	043	283	32963	31931	2.3	-0.3	-5.8	-49.1	
170/07:40:01	77 40.0	011 40.3	0434	323.1	038	282	32969	31907	2.4	0.8	-10.2	-50.3	
170/07:41:01	77 45.7	011 21.4	0434	322.2	043	279	32955	31902	2.3	0.4	-10.3	-50.1	
170/07:42:01	77 51.7	011 02.7	0433	321.9	043	281	32956	31871	2.3	-0.2	-9.7	-48.6	
170/07:43:01	77 57.7	010 42.9	0432	321.5	041	277	32949	31871	2.4	0.5	-6.5	-48.4	
170/07:43:21	77 59.6	010 36.4	0432	321.4	041	277	32954	31872	2.4	0.1	-2.8	-48.4	5/10 STRATOCUMULUS AND CAN SEE THE COAST OF SVALBARD.
170/07:43:27	78 00.2	010 34.7	0432	321.3	040	274	32955	31880	2.5	-0.8	-1.9	-49.3	END OF MARE DATA RUN.
170/07:44:01	78 03.5	010 23.2	0433	321.2	042	276	32964	31872	2.3	-0.1	-2.9	-48.1	
170/07:45:01	78 09.5	010 03.4	0435	320.8	046	276	32973	31848	2.2	0.1	-6.6	-49.2	
170/07:46:01	78 15.5	009 43.0	0437	320.3	044	277	32956	31829	2.2	0.6	-0.7	-48.5	
170/07:46:03	78 15.6	009 42.1	0437	320.1	044	274	32953	31820	2.3	0.1	0.1	-47.0	3 STASE HYGROMETER RESET.
170/07:47:01	78 21.3	009 22.0	0439	319.8	042	271	32958	31812	2.2	0.6	0.0	-50.8	
170/07:48:01	78 27.1	009 00.8	0440	320.0	038	272	32960	31817	2.3	0.1	-3.3	-47.9	
170/07:49:01	78 33.2	008 38.1	0441	320.1	035	274	32963	31789	2.2	0.1	-0.1	-49.5	
170/07:50:01	78 38.9	008 16.6	0442	319.7	036	277	32941	31786	2.2	-0.1	-3.2	-49.5	
170/07:51:01	78 44.6	007 53.8	0443	319.3	035	272	32947	31787	2.2	0.3	-3.4	-45.8	
170/07:51:51	78 49.7	007 34.3	0443	319.0	036	273	32961	31772	2.2	-0.4	-3.4	-48.6	APPROACH MIZEX AREA 10/10 STRATOCUMULUS.
170/07:52:01	78 50.6	007 30.4	0444	318.9	035	272	32959	31770	2.4	0.2	-5.6	-48.6	
170/07:53:01	78 56.5	007 07.3	0444	318.3	036	265	32953	31771	2.3	0.0	-2.8	-47.1	
170/07:53:05	78 56.8	007 05.9	0444	318.3	034	266	32951	31767	2.3	0.0	-5.4	-47.9	PATCHES OF ALTOSTRATUS.
170/07:54:01	79 02.2	006 43.2	0445	318.5	034	269	32972	31767	2.1	-0.3	-5.3	-47.4	
170/07:54:59	79 07.7	006 20.0	0448	327.1	030	281	32932	31780	2.4	19.4	-5.8	-46.3	07 55 H/P 5.
170/07:55:01	79 08.2	006 19.0	0448	328.6	030	276	32976	31770	2.4	19.0	-5.7	-48.0	
170/07:56:01	79 15.5	006 12.1	0462	356.0	029	282	32956	31747	2.3	3.5	-7.0	-47.1	
170/07:57:01	79 23.1	006 13.4	0464	359.5	026	277	32951	31782	2.2	0.4	-5.3	-48.2	
170/07:57:43	79 28.6	006 14.9	0464	359.3	028	274	32950	31752	2.2	0.1	-6.6	-48.7	APPROACH START OF RUN 9/10 STRATOCUMULUS, AND ALTOSTRATUS.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 7 --- MIZEX

----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
170/07:58:01	79 30.9	006 15.7	0464	359.2	028	279	32950	31737	2.1	0.4	-5.9	-48.4	
170/07:59:01	79 38.4	006 17.6	0465	359.6	025	279	32957	31736	2.2	0.6	-5.8	-46.9	
170/08:00:01	79 46.2	006 19.2	0465	359.4	026	277	32966	31746	2.1	0.4	-5.7	-46.6	
170/08:00:25	79 49.3	006 20.3	0465	359.4	026	277	32969	31753	2.2	-0.1	-6.8	-47.6	10/10 STRATOCUMULUS APPROACHING MIZEX AREA.
170/08:01:01	79 54.0	006 21.7	0465	359.6	024	271	32951	31713	2.3	0.4	-6.7	-47.1	
170/08:02:01	80 01.8	006 23.7	0464	359.6	024	277	32959	31718	2.3	-0.2	-7.6	-45.6	
170/08:02:19	80 04.1	006 24.3	0464	359.7	025	278	32950	31720	2.4	-0.3	-7.3	-44.9	HALOE EFFECTS FROM CLOUDS MADE UP OF ICE CRYSTALS.
170/08:02:27	80 04.9	006 24.5	0464	359.7	025	276	32964	31727	2.3	0.1	-7.7	-44.8	STRATOCUMULUS.
170/08:03:01	80 09.4	006 25.9	0464	359.9	023	278	32959	31719	2.2	-0.2	-7.9	-46.8	
170/08:03:03	80 09.6	006 25.8	0464	000.0	023	279	32963	31712	2.2	0.0	-7.9	-46.7	*** START OF RUN 2 TIME 08.03.02 LAT 8009.6 N LON 00625.8 E FL 329
170/08:03:51	80 15.8	006 27.7	0463	359.3	024	287	32958	31712	2.3	-0.5	-8.0	-45.6	FRACTURED AND MEDIUM SIZE FLOES AT THE START OF THE RUN.
170/08:04:01	80 17.2	006 27.9	0463	359.1	025	284	32962	31714	2.3	-0.1	-7.9	-45.6	
170/08:05:01	80 24.8	006 29.5	0462	358.8	026	287	32955	31648	2.1	0.2	-8.4	-45.3	10/10 STRATOCUMULUS WITH ALTOCUMULUS.
170/08:06:01	80 32.3	006 30.7	0462	359.6	021	291	32958	31653	2.2	-0.1	-8.3	-44.9	
170/08:07:01	80 40.1	006 32.9	0462	359.5	023	294	32966	31649	2.2	-0.3	-8.0	-45.8	
170/08:07:45	80 45.7	006 33.9	0461	359.7	020	286	32969	31657	2.3	0.4	-8.1	-45.1	LEAVING FRACTURED ICE ZONE, ENTERING POLAR PACK ICE CONCENTRATION 90 PERCENT.
170/08:08:01	80 47.8	006 34.2	0462	359.7	020	290	32960	31644	2.3	0.0	-8.1	-46.3	
170/08:08:39	80 52.4	006 35.4	0461	359.7	020	293	32965	31640	2.2	0.4	-8.3	-43.5	MEDIUM SIZE MULTIYEAR FLOES WITH FIRST YEAR FLOES, ROUGHLY 50 PERCENT MIXED.
170/08:09:01	80 55.3	006 36.1	0461	000.2	018	297	32968	31648	2.2	0.5	-8.2	-44.1	
170/08:09:31	80 59.1	006 37.5	0460	000.3	018	291	32954	31626	2.3	-0.3	-8.5	-44.2	SORT OF A THREE LEVEL CLOUD STRUCTURE.
170/08:09:47	81 01.4	006 37.6	0460	359.9	019	289	32953	31638	2.4	0.1	-9.9	-45.6	STRATUS, ALTOSTRATUS, ALTOCUMULUS.
170/08:10:01	81 03.2	006 38.4	0460	359.8	019	289	32951	31639	2.2	0.0	-11.0	-44.3	
170/08:11:01	81 10.7	006 39.8	0460	359.6	020	290	32952	31616	2.3	0.0	-13.9	-44.4	
170/08:12:01	81 18.4	006 41.7	0460	000.0	017	290	32964	31625	2.3	0.1	-13.8	-44.0	
170/08:13:01	81 26.0	006 43.9	0460	000.0	019	285	32947	31619	2.3	-0.2	-14.0	-44.3	
170/08:14:01	81 33.5	006 45.8	0460	000.5	014	282	32961	31615	2.4	0.2	-12.6	-44.5	
170/08:15:01	81 41.1	006 47.9	0459	001.2	009	313	32955	31629	2.2	0.7	-13.1	-45.1	
170/08:16:01	81 48.9	006 50.3	0459	001.4	011	312	32964	31621	2.3	0.1	-13.7	-42.7	
170/08:16:39	81 53.7	006 51.3	0459	001.2	011	302	32955	31606	2.4	-0.1	-6.9	-44.6	NORTH ALONG LEG THICKNESS INCREASING WITH STRATUS AND ALTOSTRATUS.
170/08:17:01	81 56.4	006 52.5	0459	001.3	009	301	32955	31612	2.4	0.0	-10.1	-44.2	
170/08:18:01	82 04.0	006 54.8	0459	001.2	012	302	32955	31609	2.3	-0.3	-13.4	-46.1	
170/08:19:01	82 11.8	006 57.0	0460	001.1	012	297	32966	31616	2.2	-0.2	-11.3	-42.3	
170/08:19:07	82 12.4	006 57.1	0460	001.0	011	297	32958	31578	2.2	-0.2	-12.4	-43.5	ICE TEMP IS INCREASING AS WE GO NORTH ALONG THE LEG.
170/08:20:01	82 19.2	006 59.1	0461	000.8	013	294	32961	31605	2.2	0.0	-7.0	-44.5	
170/08:20:43	82 24.5	007 00.9	0461	001.1	011	292	32969	31610	2.3	-0.1	-6.8	-45.4	INCREASING MIDDLE LEVEL CLOUDS - 7/10 ALTOSTRATUS.
170/08:21:01	82 27.0	007 01.5	0461	001.1	010	290	32961	31616	2.3	0.2	-6.6	-45.6	
170/08:21:23	82 29.8	007 02.8	0461	001.7	009	313	32964	31624	1.9	0.2	-6.8	-44.7	STARTING TO ENTER CIRRUS CLOUD DECK.
170/08:21:29	82 30.5	007 02.8	0462	001.7	009	295	32965	31607	2.3	0.0	-6.9	-45.1	4 LAYER CLOUD STRUCTURE.
170/08:22:01	82 34.7	007 04.5	0463	001.8	008	307	32966	31598	2.2	0.1	-8.6	-44.0	
170/08:23:01	82 42.3	007 07.6	0464	001.7	009	301	32956	31584	2.1	0.3	-8.6	-43.6	
170/08:24:01	82 49.9	007 09.6	0465	001.7	009	307	32958	31575	2.2	0.0	-9.3	-42.9	
170/08:25:01	82 57.7	007 12.9	0465	002.0	007	307	32967	31594	2.3	-0.2	-9.3	-43.4	
170/08:25:45	83 03.4	007 15.1	0466	002.3	006	326	32965	31602	2.2	0.4	-9.5	-45.4	FOUR LEVEL CLOUD STRUCTURE, TOTALLY OBSCURRED BELOW.
170/08:26:01	83 05.5	007 15.9	0466	002.2	007	323	32965	31594	2.1	-0.2	-8.9	-43.9	
170/08:27:01	83 13.0	007 18.9	0467	002.4	004	319	32957	31602	2.1	0.0	-9.8	-43.9	
170/08:27:09	83 14.3	007 19.5	0467	002.3	005	319	32957	31578	2.3	-0.1	-10.7	-43.9	INS AND LORAN C ARE TRACKING AT THIS LATITUDE, READING VERY CLOSE.
170/08:27:53	83 19.8	007 21.6	0470	002.4	004	334	32967	31584	2.1	1.7	-12.6	-44.8	!!! END OF RUN 2 TIME 08.27.52 LAT 8319.8 N LON 00721.6 E FL 329
170/08:28:01	83 21.0	007 22.3	0470	359.7	010	296	32955	31616	4.3-26.9		-13.8	-43.6	
170/08:29:01	83 23.8	006 36.4	0456	232.5	019	155	32958	31664	2.7-38.4		-13.4	-45.1	
170/08:30:01	83 17.7	006 02.1	0462	196.7	009	139	32904	31529	2.3-12.3		-11.4	-43.7	
170/08:30:49	83 11.4	005 53.9	0464	182.4	006	165	32944	31578	2.2	-2.3	-10.5	-44.7	*** START OF RUN 3 TIME 08.30.48 LAT 8311.4 N LON 00553.9 E FL 329
170/08:31:01	83 10.0	005 53.9	0464	181.2	006	144	32947	31560	2.1	-1.7	-10.4	-45.2	
170/08:31:31	83 06.1	005 52.9	0465	180.8	005	163	32956	31586	2.2	0.2	-11.3	-45.4	10/10 STRATOCUMULUS STRATUS, 4/10 ALTOSTRATUS AND PATCHES OF CIRRUS.
170/08:32:01	83 02.1	005 52.6	0465	181.0	005	163	32967	31601	2.0	-0.2	-11.4	-44.2	
170/08:33:01	82 54.6	005 51.1	0465	181.6	005	179	32966	31595	2.1	0.3	-10.3	-43.7	
170/08:34:01	82 46.6	005 49.0	0465	181.7	005	216	32963	31585	2.1	0.0	-10.4	-44.5	
170/08:35:01	82 39.1	005 47.9	0466	[illegible]	005	227	32962	31579	2.2	-0.1	-9.2	-44.7	
170/08:36:01	82 31.3	005 46.4	0467	181.5	006	216	32964	31589	2.1	-0.1	-8.0	-44.5	
170/08:37:01	82 23.4	005 45.7	0468	181.4	002	242	32950	31571	2.4	-0.2	-9.0	-44.7	
170/08:38:01	82 15.9	005 43.9	0468	181.5	002	216	32955	31595	2.2	0.0	-10.2	-43.9	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 7 --- MIZEX

-----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
170/08:39:01	82 08.1	005 42.9	0468	181.2	002	171	32959	31600	2.2	0.2	-13.5	-43.7	
170/08:39:55	82 01.1	005 41.8	0467	181.0	002	152	32971	31608	2.1	0.1	-11.4	-43.8	2 STAGE IN BALANCE MODE.
170/08:40:01	82 00.2	005 42.0	0467	181.1	002	189	32970	31617	2.1	0.2	-11.4	-43.0	
170/08:40:19	81 57.8	005 41.5	0468	181.2	003	197	32965	31617	2.1	0.5	-10.9	-43.7	10/10 STRATUS, 10/10 STRATOCUMULUS, AND SOME ALTOCUMULUS, PATCHES OF CIRRUS.
170/08:41:01	81 52.5	005 40.7	0468	181.4	003	216	32967	31605	2.4	0.1	-13.0	-45.0	
170/08:42:01	81 44.9	005 39.5	0468	181.4	007	216	32962	31612	2.0	-0.3	-11.6	-44.3	
170/08:43:01	81 36.9	005 38.9	0467	182.2	009	240	32958	31593	2.1	-0.1	-10.9	-44.4	
170/08:44:01	81 29.2	005 37.4	0467	182.5	010	257	32962	31623	2.1	-0.1	-13.6	-43.8	
170/08:45:01	81 21.6	005 36.3	0467	182.1	009	256	32952	31631	2.1	-0.7	-13.1	-45.3	
170/08:46:01	81 13.6	005 35.5	0467	182.3	010	269	32962	31621	2.1	0.2	-12.2	-44.6	
170/08:47:01	81 05.9	005 34.5	0467	181.9	007	272	32968	31660	2.1	0.0	-11.3	-43.8	
170/08:48:01	80 58.2	005 33.5	0468	182.1	010	269	32956	31642	2.1	0.1	-8.8	-44.3	
170/08:49:01	80 50.3	005 32.3	0468	182.7	012	264	32966	31630	2.1	0.1	-8.1	-46.1	
170/08:50:01	80 42.5	005 31.8	0468	182.6	013	258	32961	31635	2.0	-0.3	-8.6	-45.4	
170/08:50:21	80 40.1	005 31.3	0468	182.5	012	257	32962	31637	2.0	-0.1	-8.7	-46.1	SOUTH ON THIS LEG WE ARE RUNNING INTO MIDDLE CLOUDS WHICH MUST BE ASSOCIATED
170/08:50:31	80 38.6	005 31.3	0469	182.6	010	255	32967	31653	2.0	0.1	-8.6	-44.9	THE LOW CENTER SOUTH OF US.
170/08:50:53	80 35.9	005 31.3	0469	182.8	015	242	32977	31637	1.9	-0.1	-8.6	-44.0	ESHR FLOW STRUCTURE BECOMING MORE PROMINENT.
170/08:51:01	80 35.0	005 30.8	0469	182.9	016	248	32962	31645	1.9	0.2	-8.6	-45.1	
170/08:51:21	80 32.5	005 30.7	0468	182.8	015	261	32955	31638	2.0	-0.3	-8.4	-45.7	SOUTH ON THIS LEG WE ARE RUNNING INTO MIDDLE CLOUDS WHICH MUST BE ASSOCIATED.
170/08:51:33	80 30.7	005 30.7	0469	182.8	015	255	32956	31653	2.0	0.2	-8.5	-44.7	WITH THE LOW CENTER SOUTH OF US.
170/08:52:01	80 27.0	005 30.1	0468	182.9	015	260	32961	31652	2.0	0.2	-8.6	-45.1	
170/08:53:01	80 19.3	005 29.3	0469	183.0	016	260	32944	31634	2.0	0.1	-8.5	-44.2	
170/08:54:01	80 11.6	005 28.7	0469	182.9	017	254	32957	31639	1.9	0.2	-8.3	-44.7	
170/08:54:17	80 09.4	005 28.1	0470	183.3	020	252	32964	31681	2.2	4.8	-8.3	-45.9	!!! END OF RUN 3 TIME 08.54.18 LAT 8009.1 N LON 00528.4 E FL 329
170/08:54:17	80 09.4	005 28.1	0470	183.3	020	252	32964	31681	2.2	4.8	-8.3	-45.9	
170/08:55:01	80 04.7	005 13.8	0446	248.0	029	270	33061	31784	2.2	37.0	-7.7	-45.0	
170/08:55:41	80 05.6	004 47.5	0454	316.0	019	283	32976	31727	2.5	37.2	-8.3	-45.4	SMALL FRAGMENTED ICE FLOES BELOW.
170/08:56:01	80 07.9	004 40.4	0466	335.1	024	265	32820	31515	1.9	1.3	-7.9	-46.5	
170/08:57:01	80 15.4	004 30.0	0470	352.8	023	279	32931	31659	1.8	4.9	-8.2	-47.0	
170/08:57:39	80 20.4	004 29.4	0471	356.9	023	287	32948	31645	1.9	0.8	-8.1	-44.3	*** START OF RUN 4 TIME 08.57.40 LAT 8020.6 N LON 00429.6 E FL 329
170/08:57:39	80 20.4	004 29.4	0471	356.9	023	287	32948	31645	1.9	0.8	-8.1	-44.3	
170/08:59:01	80 23.2	004 29.2	0471	357.2	023	282	32958	31634	1.8	0.0	-8.6	-44.7	
170/08:58:21	80 25.9	004 29.4	0470	357.4	024	280	32954	31663	1.8	0.4	-8.6	-44.3	IN POLAR PACK 80 PERCENT ICE CONCENTRATION SMALL TO MEDIUM ICE FLOES.
170/08:59:01	80 31.1	004 29.1	0469	356.9	025	274	32946	31641	2.0	0.1	-8.6	-44.8	
170/09:00:01	80 38.7	004 29.4	0466	357.5	022	274	32960	31672	2.0	0.5	-8.2	-44.4	
170/09:01:01	80 46.6	004 29.2	0466	357.4	022	274	32949	31623	1.9	0.5	-8.1	-45.2	
170/09:01:35	80 50.7	004 29.4	0465	357.4	021	280	32965	31635	2.0	0.1	-8.3	-45.6	OVER SOME LARGE MULTIYEAR FLOES.
170/09:02:01	80 54.3	004 29.3	0464	357.5	021	279	32964	31634	1.8	0.7	-7.7	-43.7	
170/09:03:01	81 01.9	004 29.3	0463	357.5	020	284	32955	31623	1.9	0.4	-6.6	-44.9	
170/09:04:01	81 09.7	004 29.1	0462	357.8	018	279	32960	31620	2.1	0.2	-10.5	-45.7	
170/09:04:19	81 12.0	004 29.2	0461	357.8	018	285	32956	31612	2.0	0.2	-10.5	-45.8	AS WE PROCEED ON THIS RUN THE T
170/09:04:43	81 15.0	004 29.1	0461	357.8	019	290	32954	31634	2.0	0.2	-11.4	-43.6	AS WE PROCEED ON THIS RUN THE THICKNESS OF THE LOW LEVEL CLOUDS INCREASE.
170/09:05:01	81 17.5	004 29.2	0461	357.6	019	293	32961	31630	2.1	0.2	-11.3	-44.0	
170/09:06:01	81 24.8	004 29.5	0460	357.8	018	292	32962	31642	2.0	0.3	-13.0	-44.8	
170/09:07:01	81 32.7	004 29.4	0459	357.7	019	287	32966	31632	2.0	0.3	-12.3	-44.6	
170/09:08:01	81 40.3	004 29.1	0459	357.8	018	275	32949	31617	2.2	-0.3	-13.6	-44.8	
170/09:09:01	81 47.8	004 29.4	0461	357.8	018	272	32964	31626	2.2	0.0	-14.6	-43.6	
170/09:10:01	81 55.5	004 29.2	0463	357.4	019	274	32960	31592	2.0	0.0	-11.1	-44.4	
170/09:11:01	82 03.3	004 28.8	0465	358.1	015	273	32962	31586	2.0	-0.2	-14.4	-43.8	
170/09:12:01	82 10.8	004 29.3	0466	358.5	014	289	32960	31591	1.8	0.0	-7.4	-43.3	
170/09:12:11	82 12.3	004 29.4	0466	358.3	014	283	32967	31574	1.9	0.2	-6.8	-43.1	JOE - AMMS
170/09:13:01	82 18.6	004 29.1	0466	358.5	014	289	32958	31587	1.9	0.0	-9.8	-43.4	
170/09:13:25	82 21.8	004 29.3	0466	358.2	015	286	32961	31582	1.9	-0.4	-12.7	-44.7	GEORGIA TECH - AMMS CHANGED DATA TRACKS AT 09 08 00.
170/09:13:33	82 22.7	004 29.1	0466	358.2	014	292	32963	31587	1.9	-0.1	-13.6	-43.8	THIS CAUSED A 11-MINUTE DOWN TIME.
170/09:13:55	82 25.8	004 29.2	0466	358.5	012	295	32963	31582	1.9	0.2	-12.1	-43.9	NORTH - SOME MID ALTOSTRATUS AND SOME CIRRUS PATCHES.
170/09:14:01	82 26.4	004 28.8	0466	358.5	012	290	32959	31574	1.9	-0.1	-12.7	-45.1	
170/09:15:01	82 34.1	004 29.4	0466	358.6	013	300	32956	31594	1.9	0.1	-11.5	-43.3	
170/09:16:01	82 42.0	004 28.8	0467	358.8	012	305	32968	31556	1.8	0.4	-12.0	-45.5	
170/09:16:43	82 47.2	004 29.1	0467	358.8	010	293	32963	31573	1.9	-0.3	-13.4	-45.2	NORTH END 10/10 ALTOSTRATUS BELOW US.
170/09:17:01	82 49.7	004 29.3	0468	358.9	011	299	32959	31559	1.9	0.0	-14.0	-45.7	
170/09:18:01	82 57.4	004 29.1	0469	358.8	013	296	32966	31557	1.8	-0.3	-14.0	-46.2	
170/09:18:51	83 03.9	004 29.3	0470	358.6	011	299	32957	31538	1.9	-0.1	-13.0	-45.2	WESTWARD - THRU MIZEX BOX AMOUNT OF MID LEVEL AND HIGH CLOUDS IS INCREASING.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 7 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
170/09:19:01	83 05.4	004 29.3	0470	358.7	010	299	32951	31570	1.8	0.6	-12.3	-44.5	
170/09:20:01	83 13.0	004 29.1	0470	358.8	011	299	32954	31581	1.7	0.2	-12.3	-44.8	
170/09:20:57	83 20.3	004 29.3	0470	359.0	009	305	32965	31555	1.8	-3.1	-13.9	-45.6	!!! END OF RUN 4 TIME 09.20.56 LAT 8320.3 N LON 00429.3 E FL 329
170/09:21:01	83 20.7	004 29.2	0470	358.5	013	299	32955	31561	3.1	-20.2	-10.6	-44.7	
170/09:22:01	83 25.2	003 45.0	0465	256.3	010	197	33003	31649	2.2	-36.2	-10.3	-44.3	
170/09:22:15	83 24.5	003 32.2	0466	230.7	010	165	32936	31640	2.3	-36.6	-9.6	-44.8	MADE TURN COULD SEE PATCH AND IT HAS CLEAR WITH 95 PERCENT ICE CONCENTRATION.
170/09:23:01	83 19.1	003 08.0	0474	190.2	002	097	32876	31491	2.0	-10.9	-10.6	-44.7	
170/09:23:43	83 13.8	003 04.6	0473	179.1	003	123	32918	31529	2.0	-2.0	-10.5	-45.9	*** START OF RUN 5 TIME 09.23.44 LAT 8313.5 N LON 00304.9 E FL 329
170/09:24:01	83 11.6	003 04.9	0472	178.0	001	033	32931	31550	1.9	-0.3	-11.4	-44.6	
170/09:24:51	83 04.9	003 06.8	0471	178.3	002	168	32955	31572	1.8	0.3	-13.7	-45.9	10/10 STRATOCUMULUS, 5/10 ALTOCUMULUS AND CIRRUS PATCHES.
170/09:25:01	83 03.5	003 07.5	0470	178.6	001	213	32942	31559	2.0	0.4	-13.1	-44.6	
170/09:25:09	83 02.6	003 07.0	0470	178.6	001	213	32958	31572	1.9	0.0	-12.4	-45.3	MARE ND
170/09:25:19	83 01.1	003 07.7	0470	178.6	000	168	32946	31587	1.9	0.0	-13.2	-45.1	MARE NOM TAKING DATA AT 3 TIME
170/09:25:33	82 59.5	003 08.3	0470	178.5	001	123	32954	31589	1.9	0.2	-13.4	-44.3	MARE NOM TAKING DATA AT 3 TIMES PER SECO
170/09:25:35	82 59.3	003 08.6	0470	178.6	000	168	32956	31578	1.9	0.4	-13.3	-44.3	ND.
170/09:25:43	82 58.2	003 08.6	0469	178.6	002	168	32965	31578	2.1	0.2	-12.6	-44.5	MARE NOM TAKING DATA AT
170/09:25:49	82 57.5	003 08.3	0469	178.7	002	168	32973	31589	2.0	0.3	-12.2	-43.4	MARE NOM TAKING DATA
170/09:26:01	82 55.9	003 08.4	0469	178.7	000	168	32975	31599	1.8	0.1	-12.2	-44.7	
170/09:26:03	82 55.7	003 08.8	0469	178.8	002	258	32973	31595	1.9	0.2	-12.1	-44.3	MARE N
170/09:26:13	82 54.1	003 08.9	0468	178.8	001	303	32970	31604	1.9	0.1	-12.3	-44.9	MARE NOM TAKING DATA AT 3 TIMES PER SE
170/09:26:35	82 51.6	003 09.4	0468	179.0	002	258	32963	31579	1.9	0.1	-11 0	-44.7	MARE NOM TAKING DATA AT 3 TIMES PER SECOND.
170/09:27:01	82 48.2	003 10.1	0468	178.8	002	240	32952	31567	1.9	-0.2	-10.7	-45.2	
170/09:28:01	82 40.3	003 11.6	0468	179.0	003	285	32949	31588	1.9	0.4	-11.7	-45.7	
170/09:29:01	82 32.5	003 12.8	0467	179.2	004	289	32963	31580	1.9	-0.2	-9.4	-43.6	
170/09:30:01	82 25.0	003 14.2	0466	178.8	002	348	32960	31614	1.9	0.0	-12.5	-43.0	
170/09:31:01	82 16.9	003 15.5	0465	178.9	003	232	32959	31611	2.2	0.0	-10.6	-44.1	
170/09:31:59	82 09.-	003 17.1	0465	178.4	004	258	32964	31599	1.9	0.5	-14.0	-45.2	10/10 STRATUS AND STRATOCUMULUS.
170/09:32:01	82 09.4	003 17.5	0465	178.5	006	252	32958	31604	1.9	0.4	-14.0	-44.8	
170/09:32:17	82 07.3	003 17.7	0465	178.8	006	245	32962	31666	1.9	0.6	-10.5	-43.6	VERY THICK AND 5/10 ALTOSTRATUS AND CIRRUS PATCHES.
170/09:33:01	82 01.6	003 18.5	0465	179.7	009	254	32962	31617	1.8	0.4	-14.6	-45.4	
170/09:34:01	81 53.9	003 20.2	0466	179.6	006	232	32964	31612	2.0	0.0	-10.8	-45.2	
170/09:35:01	81 46.2	003 21.1	0467	179.6	006	232	32963	31601	1.9	-0.1	-12 4	-45.6	
170/09:36:01	81 38.3	003 21.7	0468	179.4	005	250	32962	31622	2.0	-0.1	-14.0	-43.0	
170/09:37:01	81 30.5	003 22.9	0469	179.6	005	267	32962	31612	1.9	-0.2	-13.-	-43.4	
170/09:38:01	81 22.7	003 23.8	0470	179.4	003	270	32955	31612	1.9	0.2	-13.0	-45.5	
170/09:38:53	81 16.1	003 25.0	0470	179.6	005	267	32966	31605	1.8	0.0	-8.5	-44.9	PROCEEDING SOUTH, ALOT OF STRUCTURE THAT LOOKS LIKE THE LOW PRESSURE CENTER.
170/09:39:01	81 15.1	003 24.6	0470	179.7	006	258	32963	31637	2.0	-0.3	-8.5	-44.9	
170/09:40:01	81 07.0	003 26.0	0471	180.0	010	235	32959	31607	1.7	0.4	-5.8	-44.4	
170/09:41:01	81 59.4	003 26.5	0471	179.8	007	258	32961	31606	1.8	-0.2	-7.7	-45.7	
170/09:42:01	80 51.4	003 27.9	0471	180.1	011	235	32973	31630	1.7	-0.4	-8.4	-45.5	
170/09:42:13	80 50.0	003 27.7	0471	180.2	013	236	32955	31619	1.8	0.5	-8.7	-45.2	STARTING TO SEE
170/09:42:23	80 48.9	003 27.9	0470	180.4	013	236	32963	31622	1.7	0.3	-8.7	-46.2	STARTING TO SEE THE FLOE STRUCTURE ON
170/09:42:33	80 47.3	003 28.0	0470	180.5	012	242	32953	31613	1.7	0.2	-8.8	-46.6	STARTING TO SEE THE FLOE STRUCTURE ON TH
170/09:42:51	80 45.0	003 28.5	0470	180.3	012	248	32959	31603	1.7	0.3	-8.7	-45.6	STARTING TO SEE THE FLOE STRUCTURE ON THE ESHR.
170/09:43:01	80 43.6	003 28.4	0470	180.5	013	240	32962	31627	1.8	0.3	-8.6	-44.4	
170/09:44:01	80 36.0	003 29.4	0470	180.8	016	243	32958	31614	1.8	0.4	-8.5	-46.9	
170/09:45:01	80 28.1	003 30.0	0470	180.2	010	247	32960	31623	1.8	0.3	-7.8	-45.7	
170/09:46:01	80 20.4	003 30.9	0470	180.5	013	240	32969	31651	1.7	0.0	-7.8	-45.6	
170/09:47:01	80 12.5	003 31.6	0470	180.8	015	248	32960	31641	1.7	0.4	-7.0	-45.6	
170/09:47:25	80 09.8	003 32.2	0470	181.1	014	256	32962	31651	1.8	0.2	-6.3	-46.6	!!! END OF RUN 5 TIME 09.47.22 LAT 8009.8 N LON 00332.2 E FL 329
170/09:48:01	80 04.8	003 32.3	0470	181.3	019	243	32977	31641	1.6	-0.3	-5.6	-48.5	
170/09:48:23	80 01.9	003 32.5	0470	181.1	019	238	32972	31643	1.6	0.0	-6.5	-48.8	10/10 STRATOCUMULUS.
170/09:48:33	80 00.6	003 32.6	0471	180.9	018	233	32962	31645	1.6	0.0	-6.6	-47.7	10/10 STRATOCUMUL
170/09:48:43	79 59.3	003 32.7	0470	181.4	020	240	32969	31638	1.5	0.2	-7.2	-46.4	IN THE FRACTIO
170/09:48:51	79 58.1	003 33.0	0470	181.3	019	238	32958	31643	1.7	-0.5	-7.3	-48.7	IN THE FRACTURED ICE ZONE.
170/09:49:01	79 56.8	003 32.9	0471	181.2	018	243	32960	31650	1.6	-0.3	-7.5	-47.6	
170/09:50:01	79 49.1	003 33.8	0471	180.9	019	240	32952	31640	1.7	-0.1	-7.8	-48.4	
170/09:51:01	79 41.4	003 34.7	0471	180.9	018	244	32966	31655	1.6	0.0	-7.7	-46.2	
170/09:52:01	79 33.3	003 35.5	0472	181.3	020	247	32957	31665	1.6	-0.3	-7.5	-49.1	
170/09:52:19	79 30.9	003 35.5	0472	181.5	021	247	32967	31669	1.6	0.1	-7.0	-47.7	NUMEROUS S

YEAR 1984 ADDAS FLIGHT LOG FLIGHT NO. 7 --- MIZEX

----TIME----	--LAT--	--LONG--	SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
170/09:52:27	79 30.1	003 35.7	0472	181.3	020	250	32967	31670	1.5	-0.2	-6.9	-49.1	NUMEROUS SMALL FRACTURED FLOES.
170/09:52:35	79 29.2	003 35.5	0472	181.3	022	244	32969	31675	1.6	-0.1	-6.7	-47.2	ICE CONCENTRATION 25 PERCENT.
170/09:53:01	79 25.5	003 36.1	0471	181.3	020	249	32968	31682	1.7	0.0	-7.3	-48.1	
170/09:54:01	79 17.9	003 36.7	0471	181.7	025	240	32962	31680	1.6	0.2	-7.9	-48.0	
170/09:55:01	79 10.0	003 37.7	0471	181.3	021	241	32960	31691	1.5	-0.1	-7.8	-49.1	
170/09:55:33	79 06.0	003 37.7	0471	181.2	021	239	32961	31695	1.6	-0.1	-7.9	-49.8	LEFT OF A/C PLUME STRUCTURE AND SCATTERED FLOES.
170/09:55:53	79 03.3	003 38.0	0472	181.5	023	239	32954	31693	1.5	0.1	-7.2	-48.3	ICE CONCENTRATION ABOUT 10 PERCENT.
170/09:56:01	79 02.1	003 37.9	0472	181.5	022	246	32964	31701	1.6	0.2	-7.3	-48.6	
170/09:56:21	78 59.6	003 38.4	0472	181.7	024	245	32958	31704	1.6	0.2	-7.2	-50.0	FRACTIONED ICE ZONE GREATLY DISPERSED TO SOUTH.
170/09:56:37	78 57.3	003 38.6	0472	181.6	025	242	32962	31711	1.6	0.2	-7.6	-49.9	FURTHEST SOUTH WE'VE SEEN THE ICE.
170/09:57:01	78 54.5	003 38.9	0471	182.0	025	250	32970	31715	1.3	0.1	-5.5	-47.6	
170/09:57:13	78 52.6	003 39.0	0471	181.9	024	249	32964	31722	1.5	0.4	-6.9	-48.9	ICE CONCENTRATION ABOUT 5 PERCENT.
170/09:58:01	78 46.4	003 39.4	0472	182.0	027	244	32948	31705	1.5	0.0	-6.8	-49.4	
170/09:58:13	78 45.0	003 39.7	0471	181.8	027	242	32956	31734	1.4	0.4	-5.9	-48.7	ICE PLUME STRUCTURE.
170/09:58:19	78 44.1	003 39.7	0471	181.8	026	238	32944	31707	1.3	0.0	-5.8	-48.0	EDGE OF PACK.
170/09:59:01	78 38.7	003 40.0	0469	182.3	027	247	32943	31757	1.8	-0.3	-2.7	-49.3	
170/09:59:11	78 37.6	003 40.1	0469	182.4	030	245	32952	31764	1.4	0.2	-2.9	-48.9	IN CLEAR PATCHES LEFT AND RIGHT OF A/C, NO ICE.
170/09:59:33	78 34.5	003 40.4	0467	182.1	029	245	32940	31755	2.2	-11.3	-3.3	-48.3	!!! END OF RUN 6 TIME 09.59.32 LAT 7834.5 N LON 00340.4 E FL 329
170/10:00:01	78 31.1	003 45.0	0479	149.6	023	250	33028	31658	1.8	-30.5	-6.0	-48.9	
170/10:01:01	78 25.8	004 16.5	0488	135.7	030	250	32923	31760	1.6	1.2	0.7	-48.4	
170/10:02:01	78 20.2	004 45.7	0488	135.9	030	244	32949	31792	1.7	-0.6	-2.7	-49.8	
170/10:02:09	78 19.7	004 49.2	0488	135.9	030	246	32969	31796	1.6	-0.2	-4.7	-49.8	IN THE WATER THERE IS A LIGHT SHELL.
170/10:02:21	78 18.5	004 55.2	0488	135.9	031	246	32953	31787	1.7	-0.2	-3.2	-48.8	NO APPARENT MMI
170/10:02:35	78 17.1	005 02.3	0488	135.9	031	247	32960	31803	1.6	-0.1	-0.3	-48.8	NO APPARENT WHITE CAPS.
170/10:03:01	78 14.9	005 14.1	0488	136.4	032	243	32966	31806	1.6	-0.2	-3.5	-49.2	
170/10:04:01	78 09.4	005 43.7	0488	136.7	030	245	32970	31842	1.6	0.0	-1.9	-48.9	
170/10:05:01	78 03.6	006 12.3	0489	137.1	030	244	32966	31821	1.6	-0.1	0.4	-51.0	
170/10:06:01	77 58.1	006 40.4	0489	137.4	029	242	32948	31833	1.7	-0.1	1.4	-49.7	
170/10:07:01	77 52.4	007 08.7	0487	137.9	029	239	32950	31822	1.6	-0.1	-5.9	-51.7	
170/10:08:01	77 46.8	007 35.7	0486	138.8	031	238	32945	31850	1.6	-0.2	-8.5	-51.2	
170/10:09:01	77 41.1	008 02.0	0486	139.2	032	240	32959	31890	1.6	0.4	-5.4	-51.7	
170/10:10:01	77 35.2	008 28.8	0485	139.2	027	239	32960	31891	1.5	0.2	-3.7	-51.6	
170/10:11:01	77 29.5	008 54.4	0484	139.9	030	232	32970	31890	1.5	0.1	-5.0	-51.1	
170/10:11:47	77 25.1	009 13.2	0484	140.2	029	237	32965	31902	1.4	-0.2	-6.0	-52.6	@ 170 10.11.47 ADDAS TAPES SWITCHED, EOT
170/10:12:01	77 23.7	009 19.5	0484	140.2	029	237	32976	31912	1.4	-0.2	-5.6	-52.2	
170/10:13:01	77 17.7	009 45.1	0485	140.2	025	238	32954	31930	1.4	0.0	-4.7	-52.1	
170/10:14:01	77 11.8	010 09.5	0485	140.9	029	242	32970	31905	1.3	0.0	-5.9	-53.7	
170/10:15:01	77 05.9	010 34.0	0487	141.4	031	242	32952	31891	1.5	-0.2	-4.8	-52.1	
170/10:16:01	76 59.9	010 58.0	0489	141.8	031	249	32962	31905	1.6	-0.1	-5.9	-53.2	
170/10:17:01	76 53.7	011 22.4	0492	142.2	032	252	32969	31932	1.4	0.0	-4.9	-54.5	
170/10:18:01	76 47.5	011 45.4	0494	142.6	032	258	32974	31964	1.2	-0.2	-11.3	-53.6	
170/10:19:01	76 41.3	012 09.7	0496	140.7	028	251	32973	31931	1.3	-3.2	-11.0	-53.1	
170/10:20:01	76 35.3	012 33.2	0496	141.9	029	255	32978	31961	1.3	0.4	-13.1	-52.7	
170/10:21:01	76 29.1	012 56.1	0497	142.0	030	265	32964	31987	1.3	-0.2	-13.5	-54.7	
170/10:22:01	76 22.7	013 19.9	0498	143.0	033	256	32973	31983	1.4	0.0	-6.9	-53.1	
170/10:23:01	76 16.4	013 42.1	0499	143.0	031	257	32971	31872	1.3	-0.2	0.4	-53.0	
170/10:24:01	76 10.2	014 04.2	0500	143.9	035	263	32955	32003	1.2	0.0	-12.0	-53.5	
170/10:25:01	76 03.6	014 27.0	0501	143.6	029	262	32953	32020	1.3	0.2	-12.0	-52.5	
170/10:26:01	75 57.2	014 48.3	0502	144.1	030	263	32961	32038	1.3	-0.3	-11.9	-52.8	
170/10:27:01	75 50.9	015 09.6	0501	144.3	032	267	32959	32066	1.5	0.0	-13.1	-54.4	
170/10:28:01	75 44.2	015 31.3	0498	144.9	032	264	32962	32072	1.5	0.1	-12.7	-55.2	
170/10:29:01	75 37.9	015 51.6	0495	145.0	031	268	32954	32083	1.4	-0.2	-11.7	-55.1	
170/10:30:01	75 31.4	016 11.5	0494	145.7	035	274	32965	32104	1.3	0.1	-11.4	-55.3	
170/10:31:01	75 24.7	016 31.8	0495	145.8	033	271	32969	32110	1.4	0.4	-19.2	-54.8	
170/10:32:01	75 18.3	016 51.6	0496	143.3	033	280	32960	32122	1.5	-1.4	-18.2	-53.5	
170/10:33:01	75 12.0	017 12.7	0497	142.9	037	274	32965	32145	1.5	0.0	-12.2	-55.2	
170/10:34:01	75 05.5	017 33.8	0497	143.6	038	275	32969	32156	1.5	0.0	-11.4	-56.5	
170/10:35:01	74 59.2	017 53.7	0498	144.1	040	274	32962	32175	1.4	1.2	-12.0	-55.9	
170/10:36:01	74 52.7	018 13.7	0500	144.7	041	281	32954	32187	1.5	2.0	-11.2	-55.5	
170/10:37:01	74 46.2	018 33.6	0501	147.0	039	279	32967	32185	1.4	3.7	-11.5	-57.7	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 7 --- MIZEK

-----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	-WIND- DIR	-ALTITUDE- PRES	-ALTITUDE- RADAR	PITCH	ROLL	--TEMP-- IR	--TEMP-- AIR	
170/10:38:01	74 39.4	018 51.2	0502	148.2	036	283	32967	32200	1.3	-0.2	-9.2	-57.1	
170/10:39:01	74 32.6	019 08.7	0500	151.6	031	285	32959	32186	1.5	0.5	-4.2	-55.2	
170/10:39:19	74 30.5	019 13.2	0500	151.7	032	284	32967	32057	1.4	0.5	-6.8	-54.0	10 39 CO BEAR ISLAND.
170/10:40:01	74 22.3	019 22.7	0499	152.7	034	281	32956	32204	2.2	19.7	-17.6	-55.4	
170/10:41:01	74 15.0	019 22.3	0466	203.5	034	272	32922	32185	1.3	-2.5	-17.8	-55.9	
170/10:41:17	74 13.0	019 19.7	0467	202.5	036	272	32930	32168	1.4	0.1	-15.4	-57.4	TRANSPONDER ON AT 10 41 14 SOUTH OF BEAR ISLAND.
170/10:42:01	74 07.7	019 13.4	0466	202.7	034	273	32950	32231	1.3	1.2	-12.1	-56.3	
170/10:43:01	74 00.2	019 04.0	0463	202.9	031	269	32972	32270	1.2	0.2	-0.1	-56.5	
170/10:44:01	73 53.0	018 54.7	0462	202.9	031	268	32962	32273	1.3	-0.1	2.7	-56.7	
170/10:45:01	73 45.8	018 45.9	0462	202.4	030	271	32959	32295	1.4	0.7	3.0	-57.4	
170/10:46:01	73 38.4	018 36.7	0461	202.6	032	266	32973	32303	1.3	0.3	1.8	-55.5	
170/10:47:01	73 31.3	018 27.9	0460	202.3	030	264	32966	32325	1.5	0.1	4.2	-56.4	
170/10:48:01	73 24.1	018 19.2	0459	202.5	033	267	32956	32310	1.5	-0.1	2.5	-56.4	
170/10:49:01	73 16.8	018 10.7	0459	201.2	031	270	32965	32343	1.4	0.2	3.7	-56.6	
170/10:50:01	73 09.6	018 02.8	0458	201.2	028	264	32969	32360	1.5	0.4	-3.1	-54.5	
170/10:51:01	73 02.6	017 54.6	0457	201.4	027	265	32956	32357	1.5	0.0	-2.0	-54.4	
170/10:52:01	72 55.2	017 46.5	0456	202.1	033	264	32955	32357	1.6	-0.1	-1.1	-55.4	
170/10:53:01	72 47.9	017 38.6	0455	202.3	036	271	32952	32399	1.6	-0.3	4.5	-54.0	
170/10:54:01	72 40.9	017 30.7	0454	202.0	034	273	32966	32411	1.6	-0.1	4.9	-54.3	
170/10:55:01	72 33.5	017 22.9	0453	202.2	036	273	32960	32413	1.5	0.1	4.1	-54.6	
170/10:56:01	72 26.5	017 15.4	0453	202.3	039	266	32959	32434	1.6	0.1	4.6	-54.3	
170/10:57:01	72 19.3	017 07.9	0452	201.9	036	270	32951	32427	1.6	0.0	4.3	-53.2	
170/10:58:01	72 12.2	017 00.5	0451	202.2	042	268	32958	32469	1.4	0.4	4.6	-54.8	
170/10:59:01	72 04.9	016 53.2	0450	201.8	039	270	32963	32469	1.5	0.3	4.2	-54.4	
170/11:00:01	71 58.0	016 45.9	0449	201.6	037	264	32963	32482	1.3	0.3	0.7	-53.7	
170/11:01:01	71 50.6	016 38.9	0449	201.5	038	267	32954	32486	1.5	-0.3	-1.6	-55.3	
170/11:02:01	71 43.6	016 31.9	0450	201.6	039	269	32955	32499	1.5	0.0	-1.4	-55.2	
170/11:03:01	71 36.4	016 25.2	0449	201.6	039	265	32966	32521	1.5	1.1	0.1	-55.7	
170/11:04:01	71 29.4	016 17.3	0448	203.3	039	264	32960	32551	1.4	0.0	-7.6	-54.9	
170/11:05:01	71 22.4	016 09.8	0448	203.6	042	271	32964	32568	1.5	0.2	-1.4	-55.2	
170/11:06:01	71 15.2	016 02.3	0450	203.5	043	276	32965	32566	1.6	-0.1	-0.3	-55.1	
170/11:07:01	71 08.1	015 55.1	0451	203.4	045	272	32967	32575	1.4	0.6	-1.1	-54.5	
170/11:08:01	71 00.7	015 50.4	0460	193.3	043	274	32958	32557	1.6	-0.2	-1.5	-56.0	
170/11:09:01	70 53.1	015 40.6	0470	180.8	040	277	32965	32603	1.6	-2.7	-2.7	-55.2	
170/11:10:01	70 45.1	015 51.0	0473	179.3	039	275	32945	32592	1.5	0.0	-0.9	-56.0	
170/11:11:01	70 37.4	015 53.6	0470	182.7	041	275	32956	32602	1.3	5.3	-0.5	-55.9	
170/11:12:01	70 29.6	015 54.1	0470	183.0	042	274	32960	32661	1.3	0.0	-0.3	-56.2	
170/11:13:01	70 21.6	015 54.8	0470	182.9	040	270	32964	32641	1.2	0.0	-1.2	-55.2	
170/11:14:01	70 14.1	015 55.9	0467	184.4	040	270	32957	32673	1.3	2.7	-1.8	-54.0	
170/11:15:01	70 06.2	015 55.4	0464	186.0	040	270	32964	32666	1.4	0.0	-0.7	-53.8	
170/11:16:01	69 58.5	015 55.2	0461	185.4	039	271	32964	32687	1.4	-3.4	-0.2	-55.7	
170/11:17:01	69 50.9	015 55.5	0462	182.2	040	270	32955	32699	1.6	-0.5	-0.2	-54.4	
170/11:18:01	69 43.4	015 57.1	0462	179.8	039	267	32947	32709	1.5	0.7	0.1	-55.0	
170/11:19:01	69 35.5	015 58.9	0460	180.9	037	270	32956	32701	1.6	2.1	-0.2	-54.0	
170/11:20:01	69 28.0	015 59.9	0458	183.0	038	271	32980	32737	1.4	1.9	1.7	-55.6	
170/11:20:39	69 23.2	016 00.2	0458	183.1	040	270	32953	32719	1.6	1.2	1.0	-55.4	*** START OF RUN 7 TIME 11.20.40 LAT 6923.0 N LON 01600.5 E FL 329
170/11:21:01	69 20.4	016 00.5	0457	184.2	040	270	32957	32716	1.5	-0.1	-0.3	-53.6	
170/11:21:35	69 16.2	016 00.7	0457	184.1	038	269	32965	32724	1.5	0.0	0.1	-54.9	BOTH INS AND LORAN C ARE READING THE SAME LONGITUDE.
170/11:22:01	69 12.7	016 00.7	0458	182.5	038	271	32965	32571	1.5	-0.7	6.2	-55.2	
170/11:23:01	69 05.0	016 01.4	0457	183.5	039	269	32964	32747	1.5	0.5	2.7	-54.9	
170/11:24:01	68 57.5	016 02.0	0456	183.4	038	271	32941	32793	1.6	0.3	2.6	-54.7	!!! END OF RUN 7 TIME 11.24.02 LAT 6857.5 N LON 01602.0 E FL 329
170/11:24:55	68 51.1	016 02.5	0419	183.2	038	268	32911	32855	2.9	0.3	7.0	-54.5	LORAN C LAT WAS READING CLOSER TO THE REFLECTOR THAN THE INS.
170/11:25:01	68 50.2	016 02.7	0408	183.2	038	269	32922	32871	2.6	0.3	9.0	-53.4	
170/11:26:00	68 44.5	016 03.3	0398	181.8	036	287	32889	32909	3.0	-0.3	1.3	-53.2	
170/11:27:00	68 39.5	016 19.0	0420	159.5	026	285	30227	30061	-3.7	1.2	3.3	-48.6	
170/11:28:00	68 33.2	016 28.7	0463	155.0	031	245	25645	24759	-2.6	0.5	5.1	-38.0	
170/11:29:00	68 26.6	016 38.8	0409	154.7	036	225	24960	24627	3.4	16.3	2.9	-35.4	
170/11:30:00	68 21.8	016 35.0	0323	261.1	040	250	24999	25102	3.2	33.5	1.0	-35.8	
170/11:31:00	68 23.4	016 21.3	0331	285.2	039	235	24605	23947	-4.1	-0.1	6.8	-34.3	
170/11:32:00	68 25.5	016 04.3	0434	283.5	039	233	20585	20039	1.2	0.9	0.3	-23.5	

YEAR 1984 ADJAS FLIGHT LOG --- FLIGHT NO. 7 --- NIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	+WND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR
170/11:33:00	68	24.3 015 49.1	0430	260.5	038	244	20197	20655	-4.3	51.2	0.8	-22.7
170/11:34:00	68	28.? 015 33.8	0416	304.0	036	241	16811	16802	-2.3	-10.9	4.3	-17.3
170/11:35:00	68	32.: 015 19.7	0387	337.3	022	233	14115	14C02	-5.4	38.6	-2.2	-13.2
170/11:36:00	68	37.0 015 20.5	0387	072.4	016	236	1C846	1C831	-1.2	6.6	3.6	-5.6
170/11:37:00	68	38.8 015 44.1	0339	074.0	011	236	9966	9663	1.0	-0.6	15.0	-5.7
170/11:38:00	68	40.3 015 58.6	0307	074.9	017	246	8727	7891	-0.4	1.0	15.4	-3.9
170/11:39:00	68	41.6 016 11.7	0289	079.2	012	250	7477	7454	-0.2	-0.3	4.8	-0.4
170/11:40:00	68	42.9 016 24.0	0277	078.8	015	245	6091	5411	0.0	-0.3	5.6	-2.3
170/11:41:00	68	43.1 016 36.0	0250	132.5	01E	240	5957	5017	1.9	29.1	-13.7	1.9
170/11:42:00	68	39.6 016 41.0	0203	156.8	020	232	5600	5065	0.5	-4.4	0.1	1.2
170/11:43:00	68	37.0 016 42.9	0153	185.7	031	196	4293	4197	-8.0	4.5	11.4	4.3
170/11:44:00	68	34.6 016 43.0	0133	180.3	023	187	2809	2105	1.0	-7.1	11.7	5.6
170/11:45:00	68	32.3 016 43.2	0132	176.3	014	157	1735	1570	2.1	-1.4	11.9	6.6
170/11:46:00	68	30.0 016 43.5	0141	180.4	006	103	703	727	0.8	-1.3	12.3	10.7

3.5 Fourth data flight—Day 174—Evenes RT

All instruments were operational.

This flight originally scheduled for day 172 had to be postponed until 22 June because of difficulties with both Goddard and RAL gear.

Pattern 'B' was flown, with the low-level leg flown at 500' along the 6° 20' E meridian to coincide with intensive surface measurements and the NOAA P-3 transect along that line (the so-called Onstott line). The conditions were generally warm and cloudy over all of the MIZEX box, accompanied by the generally uninteresting radiometric signatures of sea ice near the melting point. As observed from the aircraft, the cloud deck seemed to hover over just the MIZEX box, being tantalizingly clear just to the north and west! Indeed, the SMMR image of multiyear fraction for this day indicates a strong MY signature also north and west of the MIZEX box, with the indication of no MY sea ice within it. It goes without saying that two days earlier, when we were unable to fly, the MY signature appeared very strongly within the MIZEX area in the SMMR image.

In addition to providing an excellent visual evaluation of ice conditions along the low-level transect, our choice of Option 'B' permitted obtaining albedo measurements of the solid pack, the ice margin, and the open sea with varying wave structure, albeit with a solid overcast. The low-level transect was extended to about 79° 30'N. The visual observations confirmed the presence of fresh showfall over the entire area. Meltponds, although comprising less than 1% of the entire area, were observed to contain water.

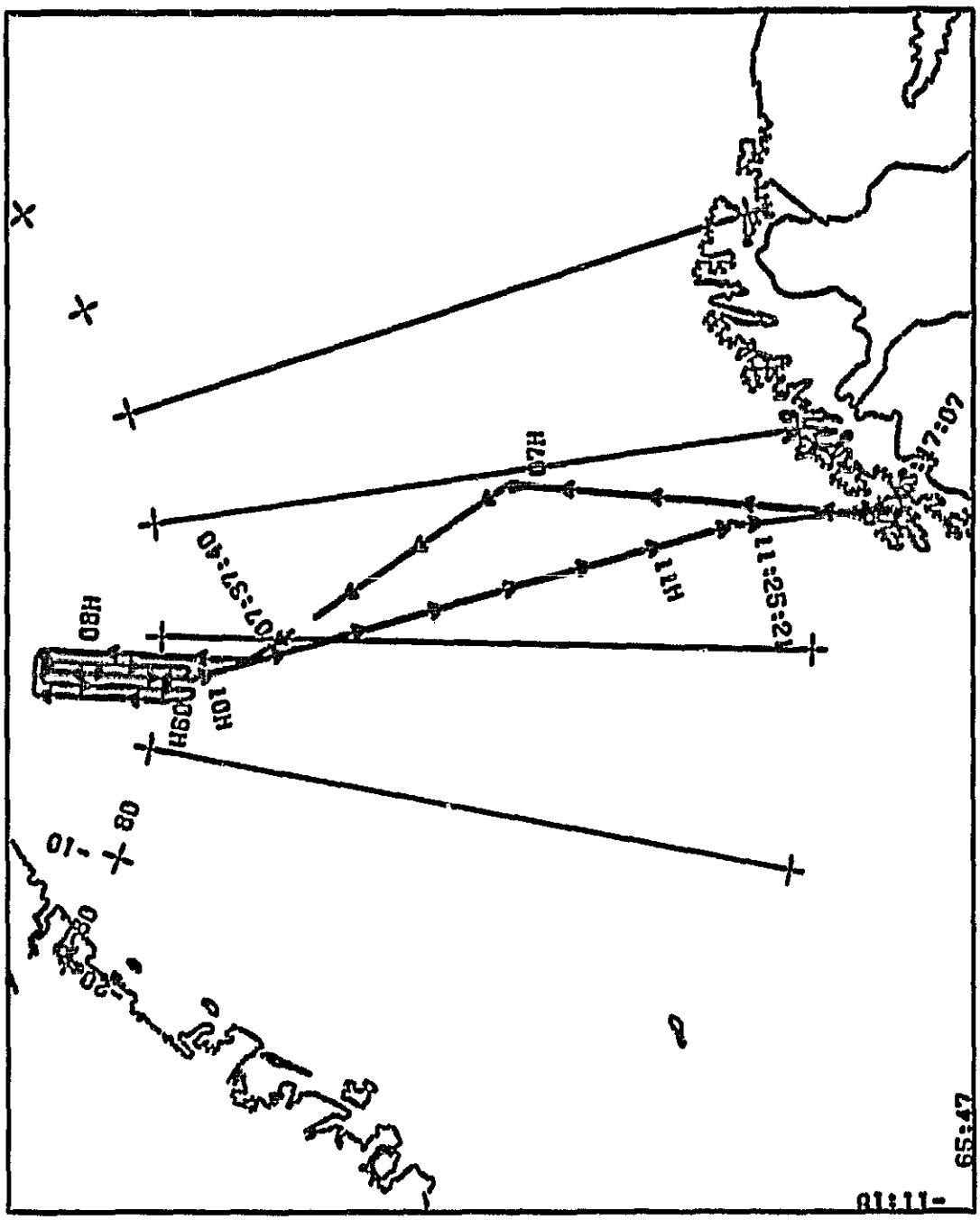


Figure 12. Flight tracks: Evenes RT 6/20

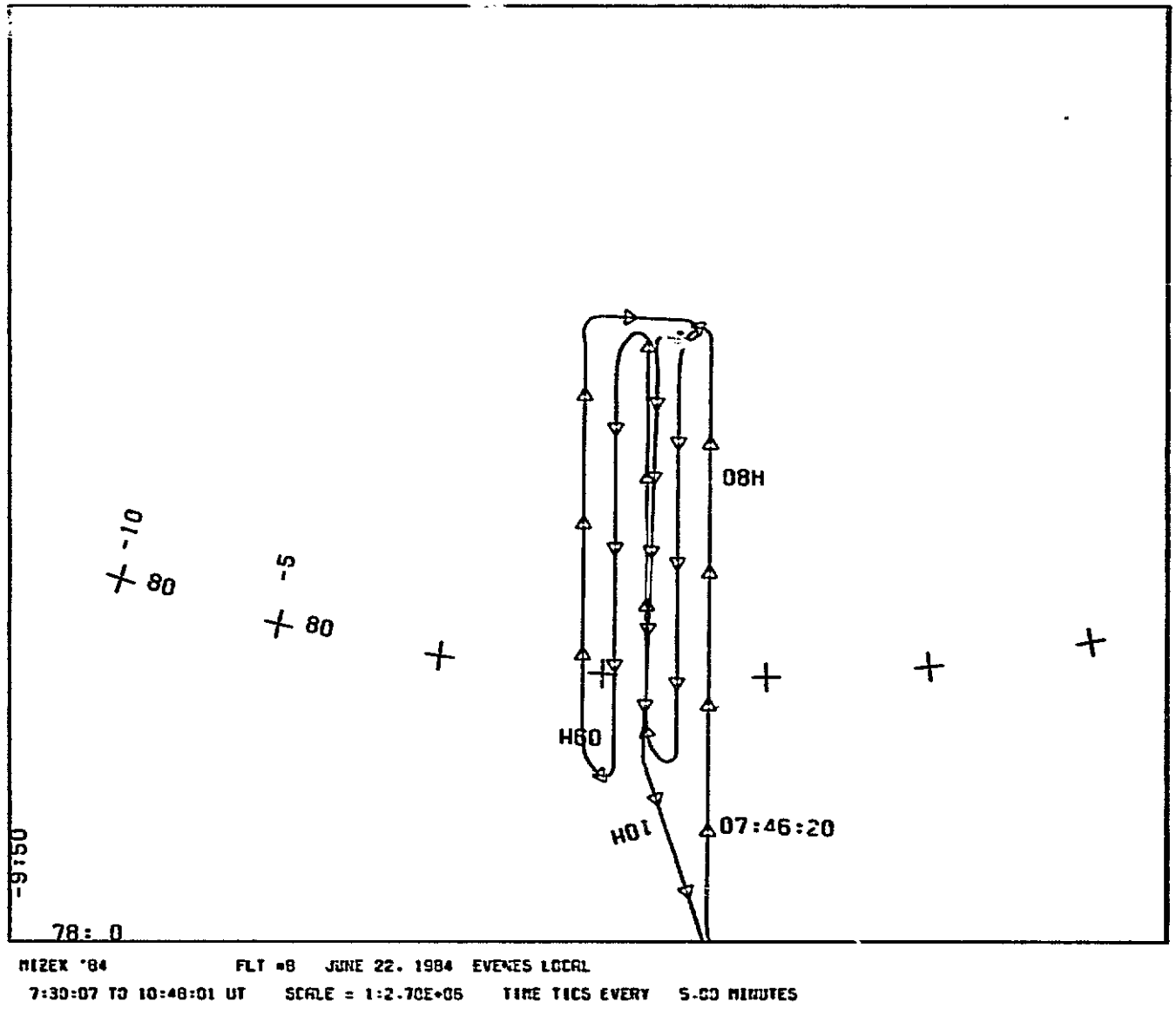


Figure 13. Mosaic pattern: 6/20

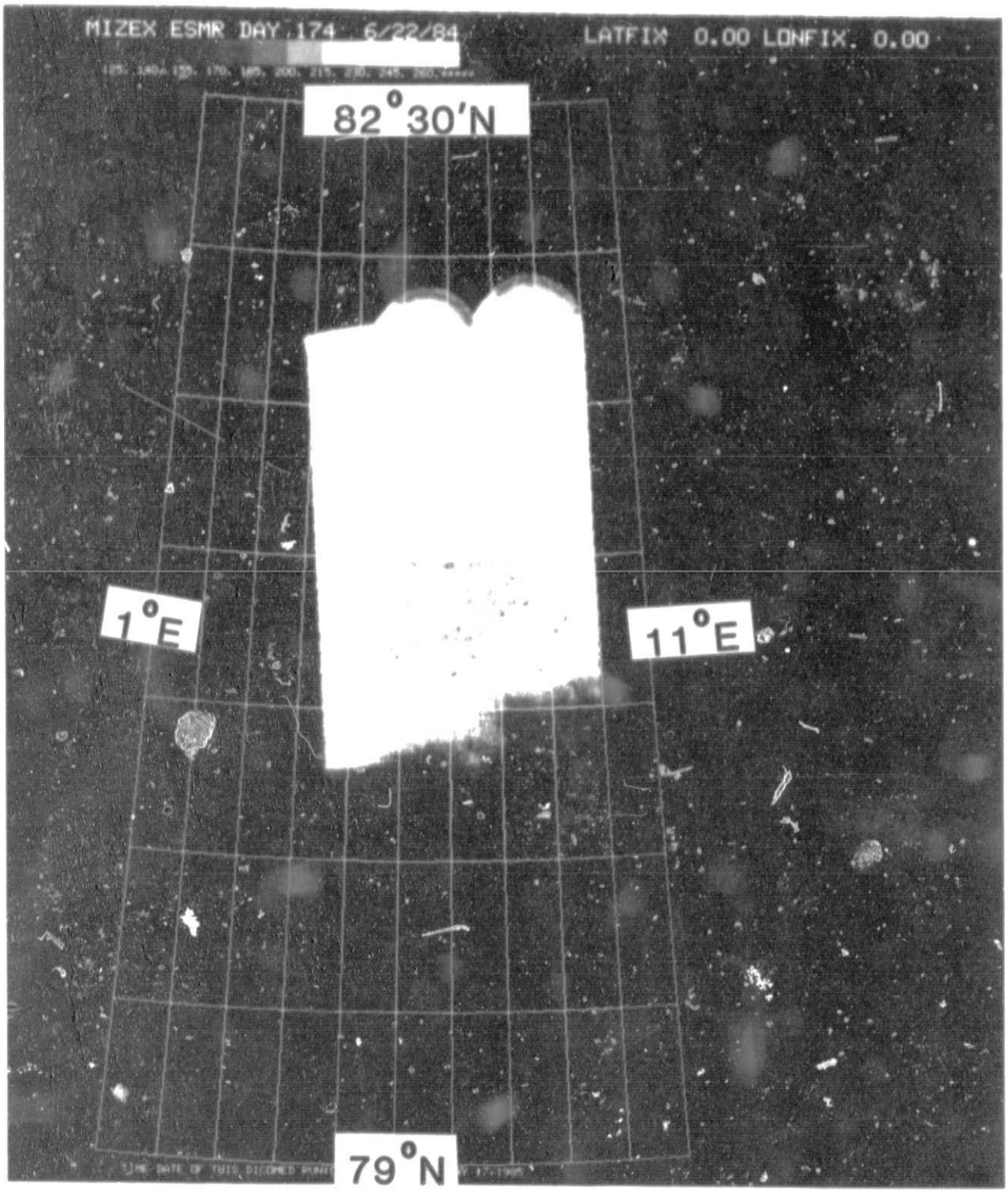


Figure 14. ESMR mosaic: 6/20

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- HIZEX

----TIME----	--LAT--	--LONG--	GRD TRUE SPD HDG	-WIND- SPD DIR	-ALTITUDE- PRES RADAR	PTCH	ROLL	--TEMP-- IR	AIR	
174/05:57:28	00 00.0	000 00.0	0000 01..0	000 000	763 28367	-0.7	-1.7	3'.7	15.0	
174/05:58:00	68 29.5	016 40.5	0000 003.5	123 003	758 28362	-0.7	-1.7	35.1	15.5	
174/05:59:00	68 29.5	016 40.5	0000 003.5	123 003	752 727	-0.7	-1.6	30.7	14.9	
174/06:00:00	68 29.5	016 40.5	0000 003.5	123 003	772 727	-0.4	-1.7	26.7	15.3	
174/06:01:00	68 29.5	016 40.5	0000 003.5	121 003	773 726	-0.7	-1.6	23.3	16.5	
174/06:02:00	68 29.5	016 40.5	0000 003.5	121 003	756 726	-0.7	-1.7	20.5	16.4	
174/06:03:00	68 29.5	016 40.5	0000 003.5	121 003	780 727	-0.7	-1.7	17.7	15.7	
174/06:04:00	68 29..	016 40.5	0000 003.4	121 003	770 726	-0.7	-1.7	17.2	12.9	
174/06:05:00	68 29..	016 40.5	0007 357.6	113 357	773 726	-0.7	-1.6	17.2	16.4	
174/06:06:00	68 29.6	016 40.4	0011 269.0	111 268	767 727	0.2	-0.6	17.5	14.1	
174/06:07:00	68 29.9	016 40.1	0017 358.3	104 358	781 727	-0.8	-0.7	17.7	13.2	
174/06:08:00	68 30.2	016 40.1	0022 357.9	097 358	773 728	-0.4	-0.7	17.6	15.6	
174/06:09:00	68 30.4	016 40.2	0003 224.2	119 227	782 728	-0.7	-1.5	17.6	13.4	
174/06:10:00	68 29.5	016 40.2	0159 173.5	008 071	733 728	9.2	0.8	17.7	15.2	
174/06:11:00	68 26.7	016 38.2	0221 246.3	016 088	2437 727	10.5	9.6	18.1	11.1	
174/06:12:00	68 26.7	016 27.7	0254 265.4	035 146	4139 725	10.1	-19.2	17.9	8.9	
174/06:13:00	68 25.7	016 16.5	0270 246.4	027 159	6051 726	6.9	0.1	9.6	3.0	
174/06:13:52	68 24.4	016 05.6	0305 251.5	042 165	7383 22	7.3	26.5	8.4	-0.6	TAKE OFF TIME 06 09 57
174/06:13:54	68 24.3	016 05.2	0306 255.2	039 166	7452 24	7.5	26.8	8.6	0.1	JULIAN DAY 174
174/06:13:58	68 24.3	016 04.6	0312 262.7	037 163	7592 25	7.6	27.4	8.5	-0.3	JUNE 22, 1984
174/06:14:00	68 24.4	016 04.0	0314 270.0	038 163	7664 24	7.5	27.5	8.6	-1.5	FLIGHT 8
174/06:14:04	68 24.4	016 02.7	0321 275.4	038 165	7814 24	7.4	27.4	8.6	-0.7	EVENES/EVENES.
174/06:14:22	68 25.2	015 58.8	0341 305.7	043 173	8516 24	6.1	11.8	0.1	-2.4	REAL TIME DATA FOR GEORGIA TECH TODAY.
174/06:14:38	68 26.1	015 55.5	0344 302.0	049 174	9017 25	7.6	-24.7	-1.6	-4.5	RADAR ALTIMETER NOT WORKING -MCC.
174/06:14:48	68 26.6	015 53.7	0335 285.6	050 176	10142 24	7.5	-31.8	-2.4	-5.2	H/P 1 68-20.1 16-08.2E
174/06:14:56	68 26.7	015 51.6	0327 272.9	046 172	10134 25	6.7	3.7	-3.0	-6.1	H/P 2 69-17.3 16-00.1E
174/06:15:00	68 26.8	015 50.5	0328 274.1	042 169	10152 2682	7.3	20.1	-3.5	-3.2	
174/06:15:08	68 27.1	015 49.1	0335 285.2	039 167	10126 9373	7.1	26.8	-4.1	-5.9	H/P 3 74-30.0 19-15.0E BEAR ISLAND.
174/06:15:14	68 27.3	015 47.5	0342 296.7	038 164	10138 9264	7.6	26.7	-4.1	-4.5	RADAR ALT NOW WORKING.
174/06:15:16	68 27.5	015 46.9	0344 300.1	040 163	10149 9097	7.6	27.2	-4.4	-4.2	H/P 4
174/06:15:48	68 29.9	015 42.4	0381 352.9	051 166	10730 9798	3.5	26.2	-3.7	-5.6	H/P 4 78-37.0 8-14.0E
174/06:15:58	68 30.9	015 42.2	0390 006.4	051 167	10740 7736	2.6	25.6	-3.1	-6.7	H/P 5 79-37.0 8-14.0E
174/06:16:00	68 31.2	015 42.2	0391 009.5	052 166	10736 7948	2.8	2..0	-3.2	-5.6	
174/06:16:10	68 32.5	015 43.0	0396 025.2	053 170	10739 10011	2.7	25.6	-2.0	-6.7	H/P 6 81-37 8-14.0E
174/06:16:46	68 35.5	015 49.1	0383 049.1	044 165	10641 9525	2.4	1.0	-1.6	-5.6	H/P 7 81-36.9 7-05.4E
174/06:16:58	68 36.4	015 51.6	0380 049.1	043 164	10623 8456	2.6	0.5	-2.7	-4.6	H/P 8 79-36.9 7-18.5E
174/06:17:00	68 36.4	015 51.7	0380 049.2	044 165	10621 8389	2.7	0.7	-2.6	-6.4	
174/06:17:10	68 37.3	015 53.8	0376 049.3	04. 166	10634 9387	2.7	0.3	-2.8	-5.1	H/P 1" 79-36.7 23.1E
174/06:17:24	68 38.4	015 56.6	0374 047.8	041 173	10646 9293	3.3	-17.5	-2.8	-5.2	H/P 2" 81-36.6 5-56.5E
174/06:17:34	68 39.1	015 58.2	0378 034.3	042 177	10720 8823	2.5	-33.9	-2.9	-5.2	H/P 3" 81-36.1 4-48.5E
174/06:17:44	68 40.2	015 59.4	0386 021.0	048 170	10695 9162	2.7	5.6	-2.7	-5.9	H/P 4" 79-36.3 5-27.7E
174/06:17:56	68 41.4	016 00.6	0384 025.1	047 169	10639 10021	2.7	3.4	-3.6	-6.5	H/P 5" 79-35.7 4-32.4E
174/06:18:00	68 41.7	016 01.1	0384 025.2	047 171	10645 10020	2.7	-6.8	-3.2	-6.9	
174/06:18:08	68 42.5	016 01.5	0384 022.7	046 168	10644 10021	2.7	-9.4	-3.2	-5.6	H/P 6" 81-35.4 3-40.2E
174/06:18:34	68 45.4	016 03.4	0387 008.2	046 166	10666 10037	2.6	-7.8	-3.5	-5.8	H/P 7" 81-37.0 8-14.0E
174/06:19:00	68 48.0	016 03.5	0388 359.6	050 171	10667 10037	2.5	-2.9	-3.3	-5.3	
174/06:19:38	68 52.0	016 02.9	0388 356.3	048 169	10676 10040	2.5	0.0	-2.7	-5.3	H/P 8" 79-37.0 8-14.0E
174/06:19:56	68 54.1	016 02.5	0387 356.3	046 173	10662 10041	2.9	0.9	-2.8	-6.1	H/P 1/3 77-40.9 10-49.1E L/O PT
174/06:20:00	68 54.4	016 02.5	0387 356.6	048 174	10664 10042	2.9	0.7	-3.1	-5.0	
174/06:20:12	68 55.7	016 02.1	0386 357.1	048 172	10659 10037	3.0	0.9	-3.1	-6.2	H/P 2/3 71-49.5 16-27.5E
174/06:20:36	68 58.1	016 01.8	0384 358.3	049 169	10671 10060	2.8	0.5	-0.2	-4.7	H/P 3/2 71-11.1 15-52.6 IP
174/06:20:50	68 59.8	016 01.5	0383 358.3	048 169	10680 10072	2.9	0.5	1.9	-4.1	H/P 4/2 69-17.3 16-00.1E
174/06:21:00	69 00.9	016 01.3	0383 358.5	047 168	10679 10075	2.6	0.3	3.1	-5.6	H/P 5/2 69-11.1 16-00.5E
174/06:21:14	69 02.2	016 01.2	0384 358.0	045 171	10692 10083	2.6	0.4	5.8	-5.4	H/P 9 68-29.5 16-40.7E ENEV
174/06:21:26	69 03.6	016 01.1	0383 358.0	041 170	10685 10079	2.7	-0.1	5.7	-5.0	H/P 6/2 68-22.1 15-56.7E RTV
174/06:21:40	69 05.3	016 00.9	0383 358.0	039 168	10687 10089	2.5	0.1	6.9	-4.8	H/P 7/2 68-27.5 16-41.2E EVN
174/06:21:48	69 05.9	016 00.6	0382 357.7	039 170	10682 10084	2.6	-0.1	7.0	-3.7	CLEAR BENEATH US NOW.
174/06:22:00	69 07.3	016 00.5	0382 357.6	040 170	10677 101.1	2.4	0.4	7.6	-4.7	
174/06:22:04	69 07.6	016 00.5	0382 357.4	039 171	10671 10082	2.5	0.6	8.6	-2.5	H/P 8/2 68-35.9 16-40.9 FS
174/06:22:18	69 09.0	016 00.2	0381 357.3	037 176	10679 1005	2.6	0.1	9.9	-5.5	LIGHT SHELL AND NOW WHITE CAPS.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
174/06:22:30	69 10.4	016 00.0	0380	357.5	036	17[illegible]	[illegible]	9986	2.6	0.4	10.2	-4.3	CORRECTION: NO WHITE CAPS.
174/06:22:56	69 13.1	015 59.6	0381	357.8	039	171	10671	9587	2.5	0.1	9.8	-4.4	*** START OF RUN 1 TIME 06.22.55 LAT 6913.1 N LON 01559.6 E FL 106
174/06:23:00	69 13.4	015 59.4	0380	357.9	040	169	10676	9542	2.6	0.4	8.0	-4.2	
174/06:23:14	69 15.0	015 59.4	0380	357.1	038	176	10659	9135	2.9	0.1	8.6	-5.7	H/P 1/3 68-47.5 16-39.3E HARSA.
174/06:23:44	69 18.3	015 58.9	037[illegible]	358.5	040	177	10731	10140	4.1	15.4	8.0	-5.4	||| END OF RUN 1 TIME 06.23.45 LAT 6918.5 N LON 01558.8 E FL 107
174/06:24:00	69 19.9	015 59.5	0382	012.8	040	175	11251	10667	7.1	7.8	7.1	-6.9	
174/06:24:48	69 24.7	016 02.7	0381	013.7	033	174	13195	12655	4.9	-2.4	6.4	-10.4	END OF RUN HE BANKED AND DID NOT CONTINUE THE RUN.
174/06:25:00	69 26.0	016 03.4	0387	012.6	036	175	13479	12928	4.8	-1.5	1.1	-12.6	
174/06:25:02	69 26.3	016 03.4	0388	012.8	036	172	13533	12964	4.7	-0.9	-0.3	-13.1	NO WHITE CAPS AT THE END OF THE RUN.
174/06:25:08	69 26.7	016 03.8	0391	012.0	037	176	13680	13116	5.5	-1.8	-5.2	-12.0	LIGHT SHELL.
174/06:26:00	69 32.5	016 06.4	0395	011.3	035	168	15403	14872	5.8	-0.1	-7.2	-15.9	
174/06:27:00	69 39.0	016 09.6	0400	012.7	034	156	17149	16613	5.1	-0.6	-14.2	-18.6	
174/06:28:00	69 45.6	016 13.0	0409	011.9	033	161	18645	18110	4.6	0.0	-17.4	-22.7	
174/06:29:00	69 52.3	016 16.2	0415	011.1	028	169	20092	19548	4.7	-0.4	-14.8	-22.7	
174/06:30:00	69 59.4	016 19.6	0425	010.8	028	173	21595	21074	4.0	0.2	-10.5	-28.6	
174/06:31:00	70 06.4	016 23.1	0435	010.2	031	182	22919	22418	3.8	0.1	-5.7	-30.0	
174/06:32:00	70 13.6	016 26.7	0446	010.2	034	183	24144	23612	4.4	0.3	-11.7	-33.5	
174/06:33:00	70 21.1	016 30.7	0456	009.5	037	194	25242	24745	3.8	0.0	-8.1	-35.3	
174/06:34:00	70 28.4	016 34.3	0468	009.2	041	197	26245	25711	4.2	-0.2	-6.8	-37.4	
174/06:35:00	70 36.1	016 38.4	0472	008.8	041	201	27440	26890	4.3	0.0	-20.0	-42.8	
174/06:36:00	70 44.1	016 42.8	0482	008.6	045	204	28279	27733	3.6	0.2	-17.0	-42.6	
174/06:37:00	70 51.9	016 46.9	0491	008.3	053	205	29129	28612	3.3	0.3	-17.1	-46.3	
174/06:38:00	70 59.9	016 51.3	0498	008.2	054	208	29971	29367	3.3	0.8	-16.4	-47.7	
174/06:39:00	71 08.3	016 55.9	0503	008.1	052	209	30805	30192	3.6	0.4	-16.3	-50.7	
174/06:40:00	71 16.5	017 00.7	0508	007.4	057	213	31511	30836	3.2	-0.3	-15.5	-52.2	
174/06:41:00	71 24.7	017 05.5	0512	007.4	056	216	32164	31502	2.7	0.2	-14.3	-54.7	
174/06:42:00	71 33.3	017 10.4	0518	007.1	060	218	32682	31991	2.7	0.3	-18.8	-53.7	
174/06:43:00	71 41.6	017 15.2	0518	006.5	058	224	32965	32262	2.3	-0.2	-18.6	-54.5	
174/06:44:00	71 49.9	017 20.4	0519	006.4	060	225	32970	32270	2.2	0.3	-18.[illegible]	-54.4	
174/06:45:00	71 58.8	017 25.7	0513	007.0	048	230	32958	32232	2.2	-0.2	-20.3	-53.8	
174/06:46:00	72 06.6	017 30.8	0501	007.5	041	234	32945	32251	2.3	-0.2	-17.6	-54.3	
174/06:47:00	72 14.9	017 35.9	0491	007.1	044	234	32941	32243	2.4	0.2	-6.8	-54.1	
174/06:48:00	72 23.0	017 41.0	0485	006.7	048	237	32971	32266	2.6	0.0	-11.9	-55.0	
174/06:49:00	72 30.7	017 46.2	0479	006.6	044	241	32957	32252	2.8	-0.1	0.6	-54.7	
174/06:50:00	72 38.6	017 51.2	0475	006.6	048	240	32955	32257	2.9	-0.2	-1.0	-53.0	
174/06:50:50	72 45.0	017 55.7	0476	006.6	044	243	32969	32237	2.5	0.1	2.9	-54.3	APPROACH BOX 50 PERCENT STRATUSCUMULUS, LIGHT SHELL, LIGHT WHITE CAPS.
174/06:51:00	72 46.4	017 56.5	0476	006.5	046	244	32963	32220	2.8	0.2	2.5	-55.0	
174/06:51:14	72 48.0	017 57.8	0477	006.4	048	246	32971	32255	2.7	0.1	1.7	-55.2	SURFACE WIND SPEED 20 KNOTS FROM THE LIGHT WHITE CAPS.
174/06:51:28	72 49.9	017 58.7	0477	006.1	050	248	32973	32222	2.7	-0.7	2.8	-56.2	CORRECTION: STRATOCUMULUS.
174/06:52:00	72 54.0	018 01.8	0478	005.4	053	250	32957	32195	2.3	0.3	-1.4	-56.2	
174/06:53:00	73 01.8	018 07.0	0479	005.1	056	251	32960	32194	2.6	0.8	-1.3	-56.9	
174/06:54:00	73 09.7	018 12.5	0480	004.9	060	252	32950	32162	2.6	0.7	-11.9	-56.3	
174/06:55:00	73 17.5	018 17.9	0481	004.8	062	251	32963	32162	2.5	0.2	-8.0	-55.5	
174/06:56:00	73 25.3	018 23.4	0483	004.6	064	252	32953	32122	2.5	-0.4	-16.3	-57.7	
174/06:57:00	73 33.3	018 29.8	0486	007.4	061	250	32958	32112	2.9	3.0	-10.5	-56.5	
174/06:57:56	73 40.5	018 35.9	0486	007.1	062	252	32979	32137	2.5	-2.0	-11.5	-57.1	10/10 ALTOSTRATUS APPROACHING THE MIZEX BOX.
174/06:58:00	73 41.0	018 36.2	0486	007.1	061	252	32973	32115	2.3	-2.1	-12.8	-56.8	
174/06:59:00	73 48.8	018 42.1	0486	004.7	066	250	32970	32101	2.4	-0.3	-3.9	-57.3	
174/06:59:50	73 52.7	018 45.2	0487	004.7	066	251	32950	32070	2.3	-0.8	0.5	-57.4	ALTOSTRATUS DIMISHING AND IS NOW 50/50 STRATOCUMULUS.
174/07:00:00	73 57.0	018 48.4	0488	005.0	067	249	32956	32075	2.2	-0.6	-3.3	-58.2	
174/07:00:16	73 58.9	018 49.9	0488	004.7	068	250	32957	32070	2.4	-1.1	-0.6	-58.3	ADDAS PRINT CHECKLIST AND EVERYTHING IS UP AND RUNNING.
174/07:00:32	74 00.9	018 51.7	0488	004.9	068	249	32958	32080	2.5	-0.8	-1.4	-55.1	2 STAGE IS NOT WORKING PROPERLY AT HOC.
174/07:01:00	74 04.8	018 54.5	0489	005.3	067	249	32965	32063	2.4	-0.7	-3.6	-56.7	
174/07:01:58	74 12.3	019 00.4	0490	005.5	064	246	32961	32040	2.4	-0.4	-4.7	-54.8	10/10 STRATOCUMULUS.
174/07:02:00	74 12.5	019 00.[illegible]	0490	005.5	064	246	32962	32045	2.7	-0.5	-4.7	-55.8	
174/07:03:00	74 20.7	019 07.3	0491	005.4	067	247	32942	32006	2.2	-0.5	-5.5	-54.8	
174/07:03:44	74 26.5	019 12.0	0490	005.4	068	249	32938	31225	2.9	-11.4	-5.6	-55.0	:.
174/07:03:52	74 27.7	019 12.5	0484	359.8	070	249	32983	31721	2.9	-20.4	-5.7	-56.2	BEAR ISLAND 07 03 43.
174/07:04:00	74 28.7	019 13.1	0477	353.6	072	251	32984	31842	2.4	-22.1	-6.0	-54.0	
174/07:05:00	74 35.6	019 05.0	0443	326.1	063	253	32947	31960	2.5	-2.0	-5.8	-53.2	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- HIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
174/07:06:00	74 42.3	018 52.5	0459	325.2	061	255	32963	31980	2.4	-0.2	-5.8	-52.5	
174/07:07:00	74 48.8	018 40.1	0438	325.3	061	250	32939	31950	2.8	-0.8	-6.3	-52.5	
174/07:07:20	74 50.9	018 35.5	0438	325.1	058	246	32935	31955	2.8	-0.3	-6.2	-53.7	10/10 STRATOCUMULUS AND PATCHES OF ALTOSTRATUS.
174/07:08:00	74 55.1	018 27.1	0442	325.7	055	248	32956	31972	2.7	0.0	-7.0	-50.7	
174/07:09:00	75 01.9	018 13.7	0448	325.4	055	249	32970	31935	2.2	-0.3	-7.1	-51.9	
174/07:09:18	75 03.9	018 09.7	0450	325.5	056	247	32980	31940	2.3	-0.3	-6.9	-52.2	100 PERCENT STRATUS, CLOUDS LOOK VERY THICK.
174/07:09:26	75 04.6	018 08.1	0451	325.7	053	247	32959	31931	2.2	0.0	-7.0	-52.0	MAY BE RAINING.
174/07:10:00	75 08.4	018 00.1	0454	325.8	051	242	32969	31911	2.5	0.0	-7.4	-50.0	
174/07:11:00	75 15.1	017 46.5	0458	325.9	046	245	32959	31885	2.4	0.1	-7.7	-50.1	
174/07:12:00	75 21.9	017 32.2	0461	325.9	046	242	32952	31870	2.6	-0.6	-8.0	-48.9	
174/07:12:52	75 27.8	017 19.5	0461	326.2	045	244	32963	31854	2.4	-0.7	-8.2	-49.4	FLYING OVER CLOUDS ASSOCIATED WITH THE LOW CLOUDS OVER SVALBARD.
174/07:13:00	75 28.6	017 17.9	0461	326.1	044	244	32963	31858	2.3	-0.2	-8.4	-49.4	
174/07:14:00	75 35.3	017 03.0	0461	326.4	043	248	32964	31864	2.3	-0.7	-8.9	-50.4	
174/07:15:00	75 42.2	016 47.8	0461	326.0	041	247	32965	31830	1.8	-0.4	-9.0	-48.5	
174/07:16:00	75 48.8	016 32.8	0462	325.8	043	246	32946	31803	2.3	-0.4	-9.5	-50.2	
174/07:17:00	75 55.4	016 17.5	0462	325.0	042	240	32954	31802	2.1	0.0	-9.7	-47.6	
174/07:18:00	76 02.2	016 01.9	0463	325.3	040	242	32966	31783	2.2	-0.8	-9.7	-46.8	
174/07:19:00	76 08.7	015 46.2	0464	325.3	037	241	32964	31769	2.4	-0.3	-10.0	-47.2	
174/07:20:00	76 15.4	015 30.2	0464	325.1	038	244	32948	31726	2.2	-0.2	-10.0	-48.8	
174/07:21:00	76 22.1	015 13.1	0465	324.8	037	241	32960	31737	2.2	-0.7	-10.3	-49.5	
174/07:22:00	76 28.8	014 56.4	0466	324.9	035	235	32946	31706	2.4	-0.4	-10.7	-47.7	
174/07:23:00	76 35.4	014 39.5	0466	324.8	032	235	32955	31709	2.3	-0.2	-10.9	-46.2	
174/07:24:00	76 42.1	014 21.7	0467	324.9	031	232	32964	31725	2.2	-0.5	-11.0	-46.9	
174/07:24:50	76 47.5	014 07.5	0467	324.7	030	237	32943	31702	2.4	-0.5	-10.8	-46.1	STARTING TO SEE SOME BREAKS IN THE STRATOCUMULUS CLOUD DECK.
174/07:25:00	76 48.6	014 04.1	0467	324.5	030	229	32951	31699	2.4	-0.5	-10.5	-43.8	
174/07:26:00	76 55.2	013 46.2	0466	324.5	029	239	32955	31690	2.2	0.3	-11.1	-44.2	
174/07:27:00	77 01.9	013 27.9	0466	323.8	032	234	32953	31716	2.4	-0.7	-11.6	-46.6	
174/07:28:00	77 08.3	013 09.6	0466	323.6	030	236	32959	31655	2.3	-0.6	-11.7	-46.1	
174/07:29:00	77 14.8	012 51.0	0465	323.6	028	240	32954	31662	2.3	-0.4	-12.2	-44.6	
174/07:30:00	77 21.3	012 31.2	0464	323.2	029	240	32946	31612	2.4	-0.5	-12.1	-46.3	
174/07:31:00	77 27.8	012 12.1	0464	323.0	029	236	32961	31627	2.4	-0.7	-12.4	-45.1	
174/07:32:00	77 34.1	011 52.6	0464	322.6	029	242	32957	31606	2.4	-0.9	-12.4	-43.8	
174/07:33:00	77 40.7	011 31.9	0464	322.5	028	242	32953	31594	2.3	-1.0	-11.6	-45.4	
174/07:35:52	00 00.0	000 00.0	0000	000.0	000	000	32962	31578	2.4	0.1	-10.5	-43.7	
174/07:36:00	77 59.5	010 30.0	0462	322.1	023	242	32965	31591	2.2	-0.3	-11.3	-44.2	
174/07:36:06	78 00.2	010 28.0	0462	322.1	024	243	32953	31605	2.2	-0.1	-11.1	-44.0	07 32 55 ADDAS DOWN .
174/07:36:32	78 02.9	010 18.8	0462	321.9	023	239	32952	31590	2.4	-0.5	-10.2	-44.7	LEAVING THE 10/10 STRATOCUMULUS DECK 40 PERCENT STRATOCUMULUS AND CAN SEE.
174/07:36:38	78 03.5	010 16.5	0462	321.7	023	234	32958	31586	2.5	-0.6	-9.1	-44.2	THE OCEAN SURFACE.
174/07:36:58	78 05.6	010 09.5	0462	321.6	023	238	32955	31586	2.5	-0.9	-0.3	-44.2	NO WHITE CAPS.
174/07:37:00	78 05.7	010 08.9	0462	321.6	022	239	32962	31604	2.4	-0.6	0.8	-45.4	
174/07:37:02	78 06.3	010 08.0	0462	321.6	022	234	32965	31607	2.4	-0.5	1.2	-44.1	VERY CALM.
174/07:37:10	78 06.9	010 04.9	0462	321.5	023	238	32953	31574	2.2	-0.1	-1.3	-45.2	ADDAS UP AT 07 35 55.
174/07:38:00	78 12.1	009 46.5	0462	321.2	025	242	32957	31576	2.3	-0.6	1.2	-45.6	
174/07:39:00	78 18.3	009 24.7	0461	320.6	024	244	32949	31540	2.2	0.3	-1.7	-44.7	
174/07:40:00	78 24.4	009 02.1	0462	320.6	023	245	32970	31541	2.2	-0.3	0.3	-44.2	
174/07:41:00	78 30.5	008 39.5	0464	320.7	021	238	32959	31533	2.3	-0.7	0.5	-45.7	
174/07:42:00	78 37.1	008 17.9	0469	340.8	016	247	32993	31564	1.9	15.5	-2.6	-44.1	
174/07:43:00	78 44.6	008 14.3	0476	357.8	018	247	32943	31531	2.4	0.7	-8.5	-44.9	
174/07:44:00	78 52.6	008 14.5	0477	358.1	019	246	32951	31529	2.1	-0.2	-1.7	-44.3	
174/07:45:00	79 00.7	008 14.3	0478	358.2	017	238	32949	31498	2.3	-0.3	-4.5	-44.8	
174/07:46:00	79 08.6	008 14.3	0477	357.7	021	247	32969	31500	2.2	-0.4	-11.5	-45.9	
174/07:47:00	79 16.4	008 14.3	0478	357.4	021	248	32955	31517	2.3	-0.6	-11.6	-43.8	
174/07:48:00	79 24.6	008 14.5	0478	358.1	019	246	32954	31515	2.2	-0.5	-11.9	-44.9	
174/07:48:40	79 29.8	008 14.8	0478	357.6	020	242	32950	31509	2.1	0.5	-12.3	-44.8	START OF RUN 10/10 STRATOCUMULUS.
174/07:49:00	79 32.3	008 14.4	0478	358.1	020	239	32961	31520	2.2	-0.2	-12.1	-44.9	
174/07:49:20	79 35.0	008 14.8	0479	357.8	020	239	32953	31518	2.4	-1.3	-9.2	-44.1	NO PHOTO FOR THE START OF THE RUN.
174/07:49:52	79 39.3	008 14.3	0479	357.8	019	237	32970	31533	2.2	-0.8	-12.0	-44.2	*** START OF RUN 2 TIME 07.49.53 LAT 7959.5 N LON 0034.6 E FL 329
174/07:50:00	79 40.2	008 14.5	0479	357.6	019	243	32962	31514	2.2	-0.5	-11.9	-44.8	
174/07:51:00	79 48.4	008 14.3	0480	358.4	019	228	32966	31501	2.1	0.0	-11.8	-44.7	
174/07:52:00	79 56.3	008 14.6	0481	358.2	017	232	32950	31467	2.3	-0.4	-11.7	-45.9	

YEAR 1984 AODAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

-----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
174/07:52:34	80 00.6	008 14.1	0481	358.3	018	231	32957	31460	2.3	-0.5	-11.7	-46.6	BREAK IN THE CLOUDS SEE SOME OF THE FRACTURED ICE.
174/07:53:00	80 04.2	008 14.4	0482	358.2	019	239	32952	31448	2.1	-1.3	-11.0	-46.6	
174/07:53:04	80 04.9	008 14.8	0482	358.2	018	234	32957	31451	2.2	-1.1	-11.2	-46.2	ICE CONCENTRATI..N 90 PERCENT.
174/07:53:44	80 10.3	008 14.4	0482	358.4	017	235	32957	31423	2.1	-0.4	-9.4	-44.1	ICE CONCENTRATION 5 PERCENT.
174/07:54:00	80 12.3	008 14.3	0482	358.5	017	235	32955	31409	2.0	-0.7	-10.5	-45.4	
174/07:54:26	80 15.8	008 14.3	0482	358.3	018	234	32962	31422	2.1	-0.7	-12.6	-45.1	FROM RADAR WE SHOULD BE AT THE EDGE OF ICE PACK.
174/07:54:48	80 18.6	008 14.3	0483	358.2	017	231	32960	31418	2.1	-0.6	-13.3	-44.4	10/10 STRATOCUMULUS.
174/07:55:00	80 20.4	008 14.2	0483	358.1	017	232	32947	31406	2.0	-0.5	-13.3	-44.9	
174/07:56:00	80 28.1	008 14.4	0483	358.3	018	231	32958	31408	2.0	-0.6	-12.9	-44.4	
174/07:57:00	80 36.4	008 14.4	0484	358.6	017	229	32954	31403	2.2	-0.3	-13.0	-42.8	
174/07:57..	80 39.4	008 14.3	0484	358.5	017	232	32943	31400	2.3	-0.9	-13.0	-43.9	10/10 STRATOCUMULUS .
174/07:57:54	80 43.7	008 14.2	0483	358.5	015	229	32964	31414	2.2	-0.2	-12.3	-45.0	STRATOCUMULUS.
174/07:58:00	80 44.2	008 14.4	0483	358.6	017	222	32959	31421	2.0	-0.4	-13.0	-43.0	
174/07:59:00	80 52.3	008 14.3	0484	358.6	016	225	32952	31392	2.0	-0.7	-13.5	-45.8	
174/08:00:00	81 00.5	008 14.2	0484	358.6	015	229	32947	31386	2.0	-1.1	-13.5	-46.0	
174/08:01:00	81 08.4	008 14.4	0482	358.8	015	226	32952	31401	2.2	-0.4	-13.0	-44.9	
174/08:02:00	81 16.4	008 14.6	0481	358.8	015	218	32954	31393	2.1	-0.7	-12.2	-44.3	
174/08:03:00	81 24.5	008 14.4	0479	359.0	012	227	32964	31408	2.2	-0.3	-10.8	-45.0	
174/08:03:32	81 28.6	008 14.9	0479	359.0	015	214	32956	31383	2.5	-0.6	-10.3	-44.7	END OF THIS RUN 10/10 STRATOCUMULUS.
174/08:03:56	81 31.9	008 14.6	0478	358.6	015	218	32959	31389	2.2	-0.2	-11.3	-44.9	NO PHOTO ON THIS RUN.
174/08:04:00	81 32.3	008 14.4	0478	358.7	014	226	32960	31388	2.2	0.0	-11.0	-43.8	
174/08:04:08	81 33.5	008 14.5	0478	358.8	014	222	32956	31387	2.2	-0.2	-11.2	-43.4	ICE CONCENTRATION 90 PERCENT.
174/08:04:38	81 37.4	008 14.5	0478	358.9	015	222	32956	31399	2.1	-0.4	-10.1	-44.7	MEDIUM TO LARGE SIZE MULTI FLOES.
174/08:04:52	81 39.3	008 14.5	0478	359.0	014	222	32957	31410	2.2	-0.5	-8.9	-44.6	NORTH OF END OF RUN - NO CLOUDS ICE IS CLEAR.
174/08:05:00	81 40.2	008 14.6	0478	358.9	016	215	32955	31387	2.1	-0.8	-9.0	-43.7	
174/08:05:34	81 44.8	008 14.4	0478	358.2	017	215	32948	31388	2.3	-1.2	-7.6	-44.5	!!! END OF RUN 2 TIME 08.05.35 LAT 8144.8 N LON 00814.4 E FL 329
174/08:06:00	81 48.0	008 09.5	0460	321.5	031	222	33149	31636	2.8	-0.6	-7.4	-43.1	
174/08:06:30	81 49.5	007 47.8	0436	254.8	036	190	330/2	31579	3.1	-2.5	-6.5	-44.5	90 PERCENT ICE CONCENTRATION MEDIUM TO LARGE ICE FLOES ON TURN.
174/08:07:00	81 47.5	007 27.8	0438	214.8	019	204	32807	31235	2.4	12.8	-6.6	-46.3	
174/08:08:00	81 41.0	007 07.3	0441	188.9	021	195	32920	31360	2.3	-9.2	-6.3	-45.1	
174/08:08:36	81 36.4	007 04.7	0444	181.2	019	203	32948	31390	2.4	-2.0	-7.9	-44.8	08 07 00 PHOTO ON.
174/08:09:50	81 34.9	007 05.0	0445	180.7	019	203	32943	31373	2.2	-1.2	-9.1	-43.1	*** START OF RUN 3 TIME 08.08.49 LAT 8134.9 N LON 00705.0 E FL 329
174/08:09:00	81 33.4	007 05.0	0446	180.4	018	205	32948	31389	2.2	-0.7	-9.8	-45.7	
174/08:09:32	81 29.5	007 05.3	0448	179.8	020	200	32955	31381	1.9	-1.1	-10.9	-44.0	CAMERA OFF.
174/08:10:00	81 26.1	007 06.1	0449	179.6	021	201	32956	31380	2.0	-0.5	-10.3	-45.3	
174/08:10:30	81 22.4	007 06.8	0450	179.8	022	200	32969	31391	2.0	-0.5	-11.4	-44.0	10/10 STRATOCUMULUS.
174/08:11:00	81 18.6	007 07.1	0451	180.1	021	201	32962	31381	2.1	-0.5	-12.1	-43.8	
174/08:12:00	81 11.0	007 07.6	0453	179.9	020	204	32955	31384	1.9	-0.4	-12.7	-45.1	
174/08:13:00	81 03.6	007 08.8	0455	180.0	022	202	32960	31387	2.0	-0.5	-13.4	-46.2	
174/08:14:00	80 56.1	007 09.7	0455	180.2	019	203	32970	31393	1.9	-0.4	-13.6	-44.5	
174/08:15:00	80 48.4	007 10.3	0456	180.1	023	203	32961	31377	2.0	-0.8	-13.5	-46.0	
174/08:16:00	80 40.9	007 11.5	0455	180.0	020	210	32955	31398	1.9	-0.1	-13.7	-44.4	
174/08:17:00	80 33.5	007 12.3	0453	180.4	021	213	32952	31390	2.1	-0.5	-13.7	-45.2	
174/08:18:00	80 25.7	007 13.0	0451	180.4	021	213	32953	31398	2.0	-0.4	-13.6	-44.0	
174/08:19:00	80 18.4	007 13.9	0450	180.6	021	213	32954	31410	2.2	-1.6	-13.3	-44.0	
174/08:19:24	80 15.5	007 13.9	0450	179.9	019	206	32951	31411	2.2	-0.5	-12.9	-45.5	ALONG THIS LEG 10/10 STRATOCUMULUS.
174/08:20:00	80 11.0	007 14.8	0449	180.1	020	215	32963	31425	2.2	-0.3	-8.5	-45.5	
174/08:21:00	80 03.4	007 15.1	0448	180.5	023	209	32962	31462	2.1	-0.2	-12.0	-46.1	
174/08:22:00	79 56.1	007 16.2	0447	180.5	020	207	32955	31472	2.2	-1.1	-12.4	-44.3	
174/08:23:00	79 48.8	007 16.8	0447	180.4	019	206	32954	31492	2.3	-0.7	-12.2	-44.6	
174/08:23:44	79 43.2	007 17.6	0446	180.1	017	214	32957	31495	2.3	-0.5	-12.0	-42.9	END OF RUN 10/10 STRATOCUMULUS.
174/08:24:00	79 41.1	007 17.3	0446	180.5	020	215	32962	31499	2.3	0.6	-11.7	-44.8	
174/08:24:32	79 37.1	007 17.8	0451	180.7	020	210	32974	31492	2.2	0.4	-11.0	-46.4	!!! END OF RUN 3 TIME 08.24.33 LAT 7936.8 N LON 00717.6 E FL 329
174/08:25:00	79 34.0	007 12.2	0437	229.1	029	262	33171	31786	3.1	44.8	-12.9	-44.4	
174/08:25:34	79 34.0	006 52.0	0450	309.1	006	280	33054	31603	0.5	35.4	-12.6	-44.1	BEFORE TURN COULD SEE THROUGH CLOUDS AND THERE WAS NO ICE.
174/08:26:00	79 36.2	006 40.0	0463	318.9	016	234	32806	31341	2.5	9.6	-12.1	-43.8	
174/08:27:00	79 43.4	006 23.1	0471	351.3	013	229	32921	31438	2.2	6.2	-11.8	-45.8	
174/08:27:38	79 48.3	006 21.1	0473	357.0	016	224	32936	31453	2.1	0.3	-10.4	-45.1	*** START OF RUN 4 TIME 08.27.39 LAT 7948.6 N LON 00621.6 E FL 329
174/08:28:00	79 51.2	006 21.1	0474	357.1	015	231	32953	31461	2.2	-0.4	-12.3	-43.8	
174/08:28:22	79 53.9	006 20.6	0474	356.9	016	227	32952	31451	2.2	-0.5	-12.2	-44.0	NO PHOTO AT THE START OF THIS RUN.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
174/08:29:00	79 58.9	006 19.8	0476	356.8	016	227	32958	31425	2.2	-0.9	-12.4	-43.4	
174/08:29:12	80 00.6	006 19.3	0476	356.8	016	224	32961	31419	2.1	-0.6	-12.6	-44.0	IN FRACTURED ZONE ICE CONCENTRATION A FEW PERCENT.
174/08:29:32	80 03.2	006 18.9	0476	356.6	016	223	32964	31425	2.1	-0.6	-12.5	-44.6	WEST OF AIRCRAFT SOME 20 TO 30 NAUTICAL MILES CAN SEE ICE.
174/08:29:42	80 04.6	006 18.9	0477	356.5	016	227	32958	31416	2.0	-0.8	-12.0	-44.6	THERE ARE THREE ICE EDDIES.
174/08:30:00	80 07.0	006 18.2	0477	356.4	015	231	32953	31412	2.0	-0.5	-11.9	-46.1	
174/08:31:00	80 14.9	006 16.6	0478	356.6	015	228	32960	31405	2.0	-0.3	-13.1	-44.3	
174/08:31:30	80 19.0	006 15.7	0479	356.9	014	228	32962	31409	2.0	-0.4	-13.1	-44.5	END OF FRACTURED ICE ZONE ICE CONCENTRATION 30 PERCENT.
174/08:32:00	80 22.6	006 15.1	0480	356.5	015	235	32962	31402	2.0	-1.1	-13.2	-44.3	
174/08:32:48	80 29.2	006 13.7	0480	356.8	015	231	32951	31409	2.0	-0.4	-13.6	-43.6	10/10 STRATOCUMULUS.
174/08:33:00	80 30.8	006 13.2	0480	356.7	015	227	32958	31404	2.0	-0.4	-13.4	-44.9	
174/08:34:00	80 38.7	006 11.8	0481	356.5	014	228	32955	31385	2.1	-0.2	-13.4	-44.2	
174/08:35:00	80 46.8	006 10.0	0481	356.8	013	229	32957	31383	1.9	-0.4	-13.5	-46.0	
174/08:36:00	80 54.7	006 08.4	0482	356.9	015	220	32963	31388	1.9	-0.2	-13.2	-45.8	
174/08:36:18	80 57.1	006 07.6	0482	356.9	015	224	32956	31377	2.0	-0.4	-13.1	-43.8	10/10 STRATUS STRATOCUMULUS.
174/08:37:00	81 02.6	006 06.2	0482	356.6	016	223	32958	31385	2.0	-1.1	-12.7	-43.9	
174/08:38:00	81 10.7	006 04.5	0483	356.6	016	220	32948	31380	2.1	-0.3	-12.0	-43.4	
174/08:39:00	81 18.8	006 02.3	0483	356.7	015	216	32955	31373	1.9	-0.6	-11.6	-42.2	
174/08:39:10	81 20.0	006 02.1	0483	356.6	015	220	32957	31377	2.0	-0.7	-11.6	-44.3	10/10 STRATUS STRATOCUMULUS AS WE APPROACH THE END OF THIS RUN.
174/08:40:00	81 26.8	006 00.5	0483	356.8	013	215	32963	31368	2.0	-0.1	-11.6	-43.6	
174/08:40:32	81 31.2	005 59.3	0484	356.7	014	216	32955	31359	1.8	-0.3	-10.0	-43.3	TO THE NORTH THE ICE IS CLEAR ABOUT 95 PERCENT CONCENTRATION.
174/08:41:00	81 34.7	005 58.5	0484	356.8	013	220	32953	31361	2.0	-0.3	-10.6	-45.0	
174/08:42:00	81 42.8	005 56.3	0485	356.6	011	220	32957	31373	2.2	-4.6	-11.6	-45.6	
174/08:42:06	81 43.6	005 55.7	0484	354.7	015	238	32992	31426	5.5	-28.7	-11.8	-44.4	||| END OF RUN 4 TIME 08.42.07 LAT 8143.6 N LON 00555.7 E FL 329
174/08:43:00	81 47.0	005 23.4	0441	239.3	032	180	33046	31516	2.7	-44.2	-11.7	-44.2	
174/08:44:00	81 41.3	004 53.8	0446	196.4	017	202	32882	31303	2.2	-14.6	-10.3	-43.0	
174/08:44:58	81 33.9	004 49.5	0450	178.7	019	195	32937	31340	2.0	-2.0	-10.1	-45.4	*** START OF RUN 5 TIME 08.44.57 LAT 8133.9 N LON 00449.5 E FL 329
174/08:45:00	81 33.6	004 49.3	0450	178.6	019	195	32941	31347	2.0	-1.8	-10.4	-45.2	
174/08:45:44	81 28.4	004 51.7	0452	177.5	018	195	32957	31380	2.1	-0.5	-9.8	-45.1	START OF RUN 10/10 STRATUS STRATOCUMULUS.
174/08:45:56	81 26.7	004 52.1	0453	177.5	017	202	32951	31382	2.1	-0.5	-11.3	-44.4	NO PHOTO ON LAST RUN AND NONE ON THIS RUN SO FAR.
174/08:46:00	81 26.3	004 52.3	0453	177.5	018	199	32956	31367	2.1	-0.3	-10.8	-44.1	
174/08:47:00	81 18.8	004 55.2	0456	177.7	018	203	32955	31369	2.0	-0.6	-11.1	-42.7	
174/08:48:00	81 11.1	004 58.2	0458	178.0	021	213	32968	31368	1.9	-0.4	-11.6	-44.7	
174/08:49:00	81 03.5	005 00.8	0455	178.4	023	209	32956	31379	1.9	-0.2	-12.8	-46.9	
174/08:50:00	80 56.1	005 03.5	0450	177.8	021	203	32947	31376	2.0	-0.1	-13.4	-44.4	
174/08:51:00	80 48.6	005 05.7	0445	178.4	020	205	32947	31383	2.1	-0.4	-13.6	-45.3	
174/08:51:34	80 44.3	005 07.4	0444	177.9	018	203	32951	31398	2.1	-0.6	-13.5	-45.7	10/10 STRATOCUMULUS.
174/08:52:00	80 41.3	005 08.3	0443	178.0	018	209	32947	31396	2.0	-0.4	-13.5	-45.0	
174/08:52:34	80 37.0	005 09.6	0443	178.3	019	210	32965	31405	2.0	-0.2	-13.6	-44.6	TO THE WEST THE ICE EDGE POSITION IS RUNNING GENERALLY NORTH/SOUTH.
174/08:53:00	80 34.1	005 10.4	0444	178.6	020	208	32951	31395	2.2	-0.8	-13.3	-44.9	
174/08:54:00	80 26.5	005 13.2	0444	178.3	021	205	32951	31401	2.2	0.0	-13.6	-44.3	
174/08:55:00	80 19.2	005 15.6	0444	178.4	021	208	32959	31406	2.1	-0.3	-12.9	-44.6	
174/08:56:00	80 12.0	005 17.3	0443	178.8	023	212	32969	31420	2.2	-0.4	-12.8	-44.8	
174/08:57:00	80 04.5	005 19.9	0444	178.4	022	211	32951	31415	2.2	-0.3	-11.8	-42.8	CLOUD FREE CONDITON ON SOUTH END OF THE BOX.
174/08:58:00	79 57.2	005 21.8	0443	178.8	021	211	32952	31461	2.1	-0.7	-12.0	-44.8	
174/08:59:00	79 49.8	005 23.7	0445	179.0	022	216	32953	31478	2.2	-0.4	-11.9	-46.1	
174/09:00:00	79 42.3	005 26.0	0446	178.9	021	219	32956	31483	2.0	0.2	-12.1	-44.2	
174/09:00:18	79 40.1	005 26.5	0446	179.2	021	219	32957	31487	2.0	-0.4	-12.2	-44.8	SEE THE WATER AND NO ICE AT THE END OF THIS LEG.
174/09:01:00	79 35.0	005 27.8	0446	179.0	022	217	32973	31478	2.0	-0.7	-11.9	-43.8	
174/09:01:24	79 32.0	005 28.6	0446	179.3	024	217	32965	31467	2.0	-0.6	-11.9	-46.0	||| END OF RUN 5 TIME 09.01.25 LAT 7931.5 N LON 00528.7 E FL 329
174/09:01:38	79 30.4	005 28.6	0437	192.8	034	238	33150	31725	4.5	45.7	-12.4	-45.8	NO PHOTO ON RUN 5.
174/09:02:00	79 28.1	005 21.3	0431	246.0	021	262	33168	31750	2.3	45.6	-11.5	-43.7	
174/09:03:00	79 31.6	004 47.1	0464	317.5	018	241	32846	31330	2.2	12.5	-8.1	-45.9	
174/09:04:00	79 38.7	004 31.5	0475	349.9	016	236	32932	31405	2.0	5.8	-8.5	-44.9	
174/09:04:24	79 41.7	004 29	0478	354.2	017	231	32941	31415	2.0	1.4	-10.3	-43.9	*** START OF RUN 6. TIME 09.04.23 LAT 7941.7 N LON 00429.6 E FL 329
174/09:04:32	79 42.9	004 29.2	0478	354.7	017	239	32950	31408	1.9	0.6	-9.7	-45.3	VOID ABOVE START OF RUN 6.
174/09:04:34	79 43.1	004 29.4	0478	354.7	017	242	32950	31419	1.9	0.2	-8.5	-45.1	*** START OF RUN 6 TIME 09.04.35 LAT 7943.5 N LON 00429.4 E FL 329
174/09:05:00	79 46.4	004 28.1	0479	355.2	017	231	32953	31416	2.0	-0.5	-9.4	-45.6	
174/09:05:10	79 47.6	004 27.8	0480	355.3	016	232	32959	31416	1.8	-0.9	-11.7	-45.4	10
174/09:05:18	79 48.8	004 27.3	0480	355.1	016	235	32948	31414	1.9	-0.9	-11.9	-45.2	10/10 STRATOCUMULUS.
174/09:05:24	79 49.8	004 27.2	0481	355.0	017	235	32955	31419	1.9	-1.2	-11.7	-45.5	NO PHOTO ON THE START OF THIS RUN.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
174/09:06:00	79 54.5	004 25.3	0482	354.4	018	234	32959	31427	1.9	-1.2	-11.8	-44.4	
174/09:07:00	80 02.6	004 22.4	0485	354.2	018	228	32966	31400	1.7	-0.5	-13.0	-44.2	
174/09:07:16	80 04.7	004 21.4	0486	354.6	017	228	32958	31385	1.8	0.3	-12.8	-44.5	XS CAMERA LOOKING STRAIGHT OUT THE LEFT SIDE IS ON.
174/09:07:42	80 08.0	004 20.2	0486	354.8	016	229	32961	31379	1.7	-0.9	-12.9	-43.6	ICE EDGE IS CLEAR ON AIRCRAFT RADAR
174/09:08:00	80 10.3	004 19.3	0486	354.6	018	231	32953	31374	1.7	-0.9	-13.3	-45.0	
174/09:09:08	00 00.0	000 00.0	0000	000.0	000	000	32950	31377	1.8	-0.6	-13.6	-45.8	
174/09:09:20	80 21.3	004 14.6	0483	354.4	016	229	32952	31378	1.8	-0.5	-13.5	-44.5	MARE DATA POINT AT 3 POINTS PER SECOND.
174/09:10:00	80 26.5	004 12.4	0481	354.2	018	224	32955	31387	1.9	-0.2	-13.8	-44.6	
174/09:10:56	80 34.0	004 09.3	0478	354.4	016	228	32959	31383	1.9	-0.7	-13.6	-45.2	LOW LEVEL RUN IN THE M
174/09:11:00	00 34.5	004 09.6	0478	354.4	016	228	32956	31405	2.0	-0.5	-14.0	-47.0	
174/09:12:00	80 42.5	004 05.5	0475	354.1	016	232	32952	31391	2.0	-0.1	-13.5	-45.4	
174/09:12:42	80 48.0	004 03.3	0474	354.1	016	232	32961	31389	2.1	-0.1	-13.2	-43.5	
174/09:13:00	80 50.3	004 02.3	0474	354.2	017	231	32954	31393	2.0	-0.3	-13.4	-43.8	
174/09:14:00	80 58.1	003 58.7	0472	354.1	016	228	32958	31388	2.1	-0.2	-13.4	-44.5	
174/09:14:02	80 58.2	003 58.8	0472	354.1	017	228	32954	31383	2.0	-0.4	-13.2	-43.4	10/10 CLOUD COVER ALONG THIS LEG - NO PHOTO.
174/09:15:00	81 06.0	003 54.7	0473	354.1	017	228	32959	31391	2.1	-0.4	-13.1	-44.5	
174/09:15:30	81 09.7	003 53.6	0474	354.0	017	231	32958	31389	2.0	-0.5	-12.5	-44.1	ALTOSTRATUS PATCHES.
174/09:15:52	81 12.7	003 51.8	0474	354.0	017	228	32966	31388	2.2	-0.4	-12.2	-46.1	LEFT SIDE CAMERA OFF.
174/09:16:00	81 13.7	003 51.2	0474	354.0	017	231	32955	31383	2.1	-0.2	-10.1	-44.5	
174/09:17:00	81 21.4	003 47.6	0475	354.5	016	232	32958	31390	1.9	-1.2	-11.6	-43.7	
174/09:18:00	81 29.5	003 43.9	0476	354.4	015	229	32957	31359	1.9	-0.7	-11.1	-43.5	
174/09:18:58	81 37.0	003 40.4	0467	354.3	012	236	32857	31319	2.0	-0.8	-14.5	-45.4	!!! END OF RUN 6 TIME 09.18.57 LAT 8137.0 N LON 0340.4 E FL 328
174/09:19:00	81 37.5	003 39.8	0466	354.2	014	229	32824	31291	1.8	-0.6	-14.3	-45.7	
174/09:20:00	81 44.6	003 33.0	0440	348.3	016	214	30787	29243	-0.9	-0.4	-12.2	-48.2	
174/09:21:00	81 51.1	003 51.9	0442	069.0	024	188	27724	26276	0.8	30.0	-15.0	-52.9	
174/09:22:00	81 51.7	004 40.9	0415	090.9	016	201	25415	24114	-1.1	-0.7	-10.9	-46.6	
174/09:22:24	81 51.8	004 59.6	0411	091.0	016	205	24218	22980	-1.1	-1.0	-10.8	-43.8	CLEAR - CAN SEE THE ICE TO THE NORTH OF THE BOX.
174/09:22:32	81 51.8	005 06.8	0409	091.0	017	206	23840	22615	-1.1	-0.5	-10.6	-42.9	ICE CONCENTRATION 98 PERCENT.
174/09:23:00	81 51.8	005 27.9	0400	091.2	014	203	22519	21348	-1.6	-0.4	-9.8	-41.1	
174/09:24:00	81 51.9	006 15.9	0401	092.0	011	205	18848	17824	-2.9	0.0	-10.5	-31.5	
174/09:24:50	81 51.8	006 53.8	0395	093.2	006	194	15709	14793	-3.0	-0.5	-8.2	-25.2	INS 81 51N 00 6 22.4E LORAN C - 81 50.4N 00 6 18.9E.
174/09:25:00	81 51.8	007 02.5	0394	093.3	006	194	15098	14231	-2.9	-0.6	-7.9	-24.6	
174/09:26:00	81 49 9	007 42.5	0368	158.2	016	207	11554	10821	-3.5	33.9	-6.8	-18.6	
174/09:27:00	81 45.6	007 23.0	0355	273.0	005	232	7757	7180	-5.2	7.1	-9.1	-10.7	
174/09:27:54	81 46.1	006 46.9	0337	275.3	006	320	4635	4228	-3.4	-0.9	-6.2	-9.9	TOP OF STRATOCUMULUS IS 5,000FT.
174/09:28:00	81 46.1	006 43.2	0335	275.0	005	332	4286	3898	-3.2	-0.1	-5.8	-9.6	
174/09:28:26	81 46.4	006 26.6	0323	264.2	010	242	2942	2646	-1.5	-34.1	-0.5	-6.9	3200FT BOTTOM OF THE CLOUD.
174/09:29:00	81 44.4	006 14.1	0321	184.5	006	220	977	735	0.5	-2.0	0.4	-2.6	OPEN WATER BETWEEN FLOES AND SOME MELT PONDS.
174/09:29:28	81 42.0	006 12.9	0313	176.5	005	242	918	603	0.8	-11.9	0.0	-3.8	SOME SURFACE PATCHES.
174/09:29:40	81 40.9	006 14.3	0312	171.1	006	246	811	590	0.6	-3.2	0.5	-4.3	ALL 3 CAMERAS ON.
174/09:29:46	81 40.4	006 14.3	0311	170.4	005	238	792	575	1.5	-0.6	0.3	-4.1	MARE DATA RUN STARTED.
174/09:29:50	81 40.2	006 15.2	0310	170.5	005	257	792	572	1.2	0.2	0.1	-5.2	FAST AVERAGING.
174/09:29:54	81 39.8	006 15.4	0308	170.9	005	242	788	571	1.3	0.9	0.3	-3.9	FAST AVERAGING.
174/09:30:09	81 39.3	006 15.9	0306	171.8	005	257	776	562	1.4	1.8	0.3	-4.9	
174/09:30:26	81 37.1	006 18.0	0297	174.8	004	234	778	571	1.5	1.8	0.3	-1.1	*** START OF RUN 7 TIME 09.30.27 LAT 8136.9 N LON 0618.0 E FL 07
174/09:30:36	81 36.3	006 18.5	0294	176.4	004	220	778	576	1.7	1.5	0.1	-2.4	FRESH SNOW ON SURFACE OF FLOES.
174/09:31:00	81 34.3	006 19.0	0291	179.5	005	231	774	569	1.8	0.8	-0.2	-3.6	
174/09:31:02	81 34.2	006 19.2	0291	179.6	006	229	776	573	2.0	0.6	-0.3	-2.3	.8 ABOVE ALVITO.
174/09:31:04	81 34.1	006 19.0	0290	179.7	006	231	786	579	1.9	0.5	0.3	-3.2	IN FOG BANK.
174/09:31:18	81 32.8	006 19.0	0288	180.3	003	220	797	591	1.9	-0.2	-0.2	-3.9	FOG PATCH.
174/09:31:22	81 32.6	006 19.0	0288	180.5	005	231	797	591	1.6	-0.4	0.0	-2.7	OUT OF IT.
174/09:31:34	81 31.6	006 19.1	0287	181.0	003	254	796	591	1.8	-0.1	0.0	-2.3	ICE FREE POLYNYAS AND LEADS.
174/09:31:54	81 30.0	006 19.0	0285	180.6	005	242	787	583	1.7	-0.2	0.4	-2.5	SMALL AND MEDIUMS MULTI AND FIRST YEAR FLOES.
174/09:32:00	81 29.5	006 19.0	0285	180.6	003	254	787	589	1.8	-0.9	0.1	-3.4	
174/09:33:00	81 24.8	006 19.5	0284	180.3	004	220	790	592	2.0	-1.0	0.2	-3.7	
174/09:33:14	81 23.8	006 19.0	0284	180.3	005	220	788	586	2.0	-0.2	0.4	-3.6	ALL FLOES THERE IS SOME FRESH SNOW.
174/09:33:50	81 21.0	006 19.1	0283	180.8	006	229	793	597	2.0	-0.5	-0.2	-0.8	FREE OF FOG PATCHES.
174/09:34:00	81 20.3	006 19.6	0283	180.5	002	247	786	587	2.0	-1.3	0.3	-2.2	
174/09:34:36	81 17.2	006 19.0	0282	180.8	006	229	788	580	1.8	-0.2	0.3	-0.3	IN THE MAIN PACK NOW.
174/09:35:00	81 15.6	006 19.0	0281	180.8	008	213	778	581	2.0	-0.8	0.3	-2.7	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
174/09:35:22	81 13.6	006 19.5	0280	180.5	005	220	789	589	1.9	-0.4	0.3	-3.3	SMALL TO MEDIUM MULTI AND FIRST YEAR FLOES.
174/09:35:28	81 13.4	006 19.2	0280	180.3	007	212	788	585	1.9	-0.4	0.2	-3.2	85 PERCENT ICE CENTRATION.
174/09:35:44	81 12.0	006 19.2	0280	180.1	006	211	789	585	2.0	-0.4	-0.3	-1.3	CORRECTION: CONCENTRATION.
174/09:36:00	81 10.7	006 19.5	0279	180.4	005	209	783	587	1.9	-0.1	0.2	-2.3	
174/09:37:00	81 06.1	006 19.6	0280	179.9	005	183	790	590	1.9	-0.8	0.3	-4.3	
174/09:37:04	81 05.9	006 19.5	0280	180.1	005	186	789	590	1.9	-0.4	0.2	-2.8	OVER A LARGE FLOE.
174/09:37:18	81 04.8	006 19.2	0280	179.9	003	186	797	599	1.9	-0.6	0.3	-1.8	THIS IS THE LARGEST ONE WE'VE SEEN ON THIS RUN..
174/09:38:00	81 01.5	006 19.1	0280	179.7	003	164	783	586	1.8	-1.0	0.4	-3.4	
174/09:38:30	80 59.2	006 19.6	0280	179.9	003	202	782	586	2.1	-0.7	0.4	-1.6	END OF LARGE FLOE 09 38 19.
174/09:39:00	80 57.0	006 19.6	0279	179.8	002	193	784	588	2.[illegible]	0.2	0.3	-1.8	
174/09:40:00	80 52.3	006 19.8	0280	180.2	002	193	794	598	2.0	-0.5	0.[illegible]	-4.2	
174/09:40:10	80 51.4	006 19.6	0280	180.1	002	193	786	591	2.0	-0.2	0.1	-2.9	NOT SEEING ANY NEW MELT PONDS
174/09:40:22	80 50.6	006 19.6	0280	180.2	006	186	790	598	1.7	-0.1	0.4	-2.5	FLYING OVER A MELT POND 09 40 11.
174/09:40:34	80 49.6	006 19.6	0280	180.0	005	167	793	596	1.9	-0.6	0.2	-3.8	DISREGARD PREVIOUS COMMENT OF NOW SEEING ANY MELT PONDS.
174/09:40:46	80 48.6	006 19.6	0280	179.8	003	164	786	592	1.9	-0.3	-0.1	-0.5	ALL POLYNYAS ARE ICE FREE.
174/09:40:54	80 48.0	006 19.1	0280	179.8	004	175	785	592	2.1	-1.2	0.2	-0.1	NOT MUCH WIND.
174/09:41:00	80 47.7	006 19.2	0280	179.7	002	193	789	598	2.1	0.3	0.6	-1.1	
174/09:41:42	80 44.2	006 19.6	0280	179.8	002	337	782	592	2.1	-0.5	0.4	-1.8	SNOW ON ICE MAY HAVE SOME FREE WATER - LOOKS WET.
174/09:42:00	80 42.8	006 19.6	0280	180.3	003	238	787	592	2.0	0.5	-0.9	-2.3	
174/09:43:00	80 38.3	006 19.8	0280	180.5	002	265	791	596	1.8	-0.2	0.3	-2.3	
174/09:43:14	80 37.1	006 19.3	0281	180.4	002	247	784	595	2.1	-0.4	0.0	-2.6	LOW CLOUDS IN FRONT OF US.
174/09:44:00	80 33.6	006 19.3	0282	180.2	002	310	790	595	1.8	-0.1	0.2	-3.8	
174/09:44:12	80 32.6	006 19.2	0282	180.1	002	355	794	599	2.0	-0.7	0.2	-0.3	FLOE SIZE DECREASING.
174/09:45:00	80 28.8	006 19.6	0283	180.0	002	355	781	589	2.0	-0.1	0.1	-2.2	
174/09:45:02	80 28.7	006 19.2	0283	179.9	002	337	782	586	2.1	-0.2	-0.4	-0.7	FRACTURED ICE.
174/09:45:12	80 27.9	006 19.8	0283	180.0	002	337	792	594	2.1	-0.1	0.1	0.0	ENTERED FRACTURED ICE ZONE ICE CONCENTRATION 85 PERCENT.
174/09:45:30	80 26.5	006 19.6	0284	179.8	004	355	789	596	1.8	-0.2	-0.1	-3.4	NO GREASE ICE IN POLYNYAS FLOES SIZE 2 TO 300 METERS.
174/09:45:40	80 25.7	006 19.6	0284	179.8	003	006	787	591	2.1	-0.6	-0.4	-3.0	A METER TO A METER AND A HALF THICK.
174/09:45:52	80 24.7	006 19.8	0284	179.7	002	013	786	587	2.0	-0.5	-0.2	-0.8	FRACTURED ARE FIRST AND MULTI YEAR.
174/09:46:00	80 24.1	006 19.8	0285	179.6	003	006	793	594	1.9	0.4	-0.7	-1.7	
174/09:46:18	80 22.7	006 19.6	0285	179.8	003	006	792	598	1.8	-0.2	-0.2	-1.7	ICE CONCENTRATION 85 PERCENT.
174/09:46:34	80 21.4	006 19.6	0285	179.9	004	355	793	595	2.0	-0.1	-0.4	-3.2	60 PERCENT ICE CONCENTRATION UNDER THE SHIP.
174/09:46:44	80 20.7	006 19.7	0286	179.8	002	013	786	592	2.1	-0.4	-0.3	-2.9	FLOES ARE BOTH FIRST AND MULTI .
174/09:47:00	80 19.6	006 19.6	0286	179.8	002	013	784	590	1.9	-0.4	-0.2	-1.9	
174/09:47:16	80 18.2	006 19.3	0286	179.5	004	026	790	594	1.8	0.3	-0.3	-3.8	ICE CONCENTRATION 40 PERCENT.
174/09:48:00	80 14.6	006 19.2	0286	179.8	003	022	795	596	1.9	-0.2	0.5	-2.1	
174/09:48:10	80 13.9	006 19.8	0286	179.8	002	040	790	593	2.0	-0.6	0.3	-3.3	ICE CONCENTRATION 40 PERCENT.
174/09:49:00	80 10.0	006 20.0	0286	179.3	004	054	781	588	1.8	0.8	0.1	-1.8	
174/09:49:22	80 08.2	006 19.8	0287	179.6	003	022	796	600	1.8	-0.6	-0.3	-3.6	ICE CONCENTRATION ABOUT 30 PERCENT - IS DECREASING.
174/09:49:48	80 06.1	006 19.7	0287	179.5	004	040	793	593	2.0	-0.2	-0.2	-0.8	NADIR 4 RED LIGHT ON PROBABLY OUT OF FILM.
174/09:50:00	80 05.3	006 19.8	0287	179.3	005	018	784	589	2.0	-0.5	-0.3	-3.5	
174/09:50:12	80 04.2	006 19.8	0287	179.3	004	040	783	585	1.8	0.4	0.4	-4.2	FLOE SIZE DECREASING 100 METERS, ICE CONCENTRATION 25 PERCENT.
174/09:51:00	80 00.4	006 19.8	0287	179.5	004	067	788	588	1.8	-0.3	0.5	-3.6	
174/09:51:10	79 59.6	006 19.6	0287	179.5	003	074	796	595	1.9	-0.6	0.3	-1.9	FLOE SIZE DECREASING 15 PERCENT ICE CONCENTRATION.
174/09:51:50	79 56.5	006 19.8	0286	179.1	004	067	787	584	1.9	-0.4	0.4	-2.3	ICE CONCENTRATION 5 PERCENT, SMALL DECAYING FLOES.
174/09:52:00	79 55.7	006 19.6	0286	179.1	004	067	790	591	1.7	-0.9	0.9	-1.5	
174/09:52:14	79 54.5	006 19.8	0286	179.1	004	054	786	589	1.9	-0.5	1.0	-0.5	LAST OF FRACTURED ICE.
174/09:52:18	79 54.3	006 19.6	0286	179.0	004	067	790	592	1.9	-0.2	1.5	-1.9	OVER OPEN WATER.
174/09:52:24	79 53.9	006 19.7	0286	178.8	005	077	794	595	1.8	-0.3	1.5	-2.7	BASICALLY OUT OF THE PACK.
174/09:52:32	79 53.1	006 19.8	0286	179.1	003	074	786	592	1.8	0.2	1.7	-1.3	NO SURFACE CLOUDS IN FRONT OF US.
174/09:53:00	79 51.0	006 19.7	0286	178.9	006	067	789	593	1.9	-0.6	2.5	-2.9	
174/09:53:02	79 50.7	006 19.6	0286	178.9	006	058	787	593	1.9	-0.3	2.6	-1.3	SHELL APPEARING BUT NO WHITE CAPS - LIGHT SWELL.
174/09:53:22	79 49.1	006 19.7	0286	179.5	005	062	789	596	1.8	-0.2	2.8	-2.0	OVER OPEN WATER.
174/09:53:54	79 46.8	006 19.0	0287	179.1	006	071	787	593	2.0	-0.2	2.6	-3.1	UNDER
174/09:54:00	79 46.2	006 19.8	0287	179.4	004	067	797	599	1.6	-0.1	2.6	-2.6	
174/09:54:02	79 45.9	006 19.9	0287	179.5	005	051	780	595	1.7	0.2	2.7	-4.2	UNDER FLYING STRATUS STRATOCUMULUS
174/09:54:12	79 45.2	006 19.6	0287	179.5	005	062	793	594	2.0	-1.2	2.8	-2.2	CLOUDS PRECIPITATING IN RANDOM AREAS
174/09:55:00	79 41.4	006 19.8	0286	178.9	006	040	783	594	1.8	-0.3	3.0	-2.7	
174/09:55:54	79 37.1	006 19.6	0288	179.5	006	040	841	636	3.4	-0.6	4.2	0.0	END OF RUN 7 TIME 09.55.53 LAT 7937.1 N LON 00619.6 E FL C3
174/09:56:00	79 36.7	006 19.6	0291	179.3	006	031	1006	782	6.3	-0.2	4.3	-3.9	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
174/09:56:20	79 35.0	006 19.8	0297	180.7	002	085	2401	2124	10.1	-3.8	4.0	-5.3	CAMERAS OFF 09 56 CO.
174/09:56:26	79 34.3	006 19.8	0296	178.0	002	130	2880	2590	10.4	-21.3	3.7	-5.8	CLOUD BASE 2,000FT.
174/09:57:00	79 31.8	006 24.0	0307	180.1	003	292	5313	4869	4.9	-0.4	-10.8	-9.2	CLOUD TOP 4700FT.
174/09:58:53	00 00.0	000 00.0	0000	000.0	000	000	11993	11297	6.9	-0.3	-10.6	-17.5	
174/09:59:01	79 21.4	006 45.5	0339	161.1	013	206	12441	11726	6.8	-0.3	-10.0	-18.7	
174/09:59:11	79 20.6	006 47.0	0340	161.1	013	212	12590	12278	6.4	-0.4	-9.6	-15.9	09 57 55 ADDAS DOWN BACK UP 09 58 5?
174/09:59:33	79 18.8	006 50.9	0345	161.5	015	209	14114	13366	5.9	-0.2	-9.4	-19.4	NADIR 4 CLOSED.
174/10:00:01	79 15.9	006 55.9	0352	161.6	016	207	15495	14723	6.2	-0.1	-8.7	-23.9	
174/10:01:01	79 10.4	007 07.0	0368	162.2	016	214	18291	17397	5.9	-0.5	0.5	-29.0	
174/10:02:01	79 04.6	007 18.6	0383	162.1	015	225	20862	19371	5.4	-0.2	1.9	-35.0	
174/10:03:01	78 58.5	007 29.8	0398	162.1	015	217	23226	22118	4.8	-0.2	-9.7	-39.0	
174/10:04:01	78 52.1	007 41.3	0413	163.2	018	237	25312	24146	4.6	-0.1	-6.1	-46.3	
174/10:05:01	78 45.5	007 53.7	0426	162.8	013	239	27349	26057	3.9	-0.4	0.8	-51.3	
174/10:06:01	78 38.7	008 05.3	0441	163.4	017	253	28962	27602	3.7	-0.7	1.6	-51.4	
174/10:07:01	78 31.9	008 17.0	0443	164.1	023	229	30748	29351	3.9	-0.5	-2.0	-49.7	
174/10:08:01	78 24.6	008 29.4	0446	164.1	024	217	32166	30744	2.7	-0.2	1.9	-47.9	
174/10:09:01	78 17.7	008 40.8	0458	164.1	023	215	32968	31551	1.5	-0.8	2.2	-45.9	
174/10:09:53	78 11.3	008 51.3	0461	164.4	027	218	32954	31549	1.6	-1.0	2.3	-45.1	0 174 10.09.52 ADDAS TAPES SWITCHED, EOT
174/10:10:01	78 10.6	008 52.6	0460	164.5	028	216	32957	31548	1.4	0.1	2.3	-44.4	
174/10:11:01	78 03.0	009 04.2	0456	164.6	027	223	32943	31555	1.7	-0.4	-2.8	-45.6	
174/10:12:01	77 55.9	009 15.2	0452	164.9	025	223	32955	31600	1.6	-0.6	-1.7	-44.6	
174/10:13:01	77 48.9	009 25.9	0450	165.3	029	219	32947	31604	1.8	-0.5	0.9	-44.3	
174/10:14:01	77 41.6	009 36.7	0448	165.6	029	221	32953	31614	1.8	-0.2	-11.3	-45.1	
174/10:14:39	77 37.0	009 43.5	0447	165.8	031	220	32952	31606	1.7	-0.2	-11.8	46.5	10/10 STRATOCUMULUS.
174/10:15:01	77 34.6	009 47.0	0447	166.0	032	222	32951	31596	1.7	-0.8	-12.0	-46.1	
174/10:16:01	77 27.5	009 57.4	0445	166.2	031	222	32958	31634	1.9	0.2	-11.7	-45.6	
174/10:17:01	77 20.5	010 07.4	0445	166.0	032	218	32960	31668	1.7	-0.5	-11.2	-45.5	
174/10:18:01	77 13.2	010 17.1	0448	167.0	036	221	32961	31660	1.7	-0.3	-10.7	-45.4	
174/10:19:01	77 06.3	010 26.8	0451	167.0	034	224	32946	31655	1.6	0.0	-11.1	-46.5	
174/10:20:01	76 59.1	010 36.3	0455	167.5	039	224	32955	31658	1.5	-0.2	-8.4	-45.7	
174/10:21:01	76 51.8	010 45.7	0453	168.7	042	227	32940	31674	1.6	-0.5	-10.6	-47.9	
174/10:22:01	76 44.6	010 54.6	0450	168.3	041	230	32944	31697	1.7	-0.6	-10.5	-47.2	
174/10:23:01	76 37.4	011 03.8	0447	168.4	040	225	32951	31708	1.5	0.0	-7.0	-48.0	
174/10:24:01	76 30.2	011 12.9	0444	169.1	044	223	32949	31746	1.5	-0.4	-11.6	-46.9	
174/10:25:01	76 23.2	011 21.1	0443	170.4	045	227	32945	31763	1.8	0.5	-11.6	-49.4	
174/10:26:01	76 15.9	011 29.1	0442	170.2	048	227	32956	31775	1.8	-0.7	-11.2	-49.5	
174/10:27:01	76 08.9	011 37.1	0442	169.4	047	223	32966	31781	1.4	-0.4	-10.9	-46.7	
174/10:28:01	76 02.1	011 45.1	0441	169.9	051	222	32944	31811	1.7	-0.4	-10.6	-48.8	
174/10:29:01	75 54.7	011 53.4	0440	170.1	052	220	32940	31792	1.6	-0.9	-9.9	-48.5	
174/10:30:01	75 47.9	012 00.9	0439	170.3	054	221	32953	31818	1.6	-0.7	-9.4	-49.3	
174/10:31:01	75 40.9	012 08.7	0438	170.9	055	225	32959	31853	1.5	-0.7	-8.0	-49.8	
174/10:32:01	75 33.6	012 16.5	0436	170.5	060	219	32955	31840	1.6	-0.1	-1.4	-50.5	
174/10:33:01	75 26.8	012 23.7	0429	171.8	065	218	32939	31857	1.5	-1.0	-7.6	-52.0	
174/10:34:01	75 19.9	012 31.1	0425	172.1	064	223	32946	31919	1.8	-0.2	-8.6	-52.2	
174/10:35:01	75 13.1	012 38.0	0423	172.2	065	222	32950	31918	1.3	-1.0	-8.4	-52.1	
174/10:36:01	75 06.4	012 45.0	0422	173.0	072	221	32938	31919	1.6	-0.2	-7.9	-56.0	
174/10:37:01	74 59.6	012 51.7	0422	173.6	072	226	32936	31928	1.6	-0.8	-6.5	-56.9	
174/10:38:01	74 52.6	012 58.2	0423	173.4	071	226	32949	31963	1.5	-0.4	-7.1	-55.1	
174/10:39:01	74 46.1	013 04.8	0424	173.5	069	227	32945	31994	1.6	-0.6	-1.2	-55.5	
174/10:40:01	74 39.3	013 11.3	0426	173.3	067	226	32936	31999	1.6	-0.4	-1.5	-56.3	
174/10:41:01	74 32.2	013 17.9	0426	172.8	061	226	32939	32021	1.6	-0.5	0.6	-55.0	
174/10:42:01	74 25.3	013 24.0	0427	172.8	062	225	32953	32072	1.6	-0.5	3.4	-54.4	
174/10:43:01	74 18.6	013 30.4	0427	172.8	065	220	32974	32066	1.5	-0.1	-0.4	-55.6	
174/10:44:01	74 11.5	013 36.6	0426	172.6	064	218	32947	32054	1.6	-0.4	-0.3	-56.6	
174/10:45:01	74 04.7	013 42.5	0425	172.8	068	217	32951	32094	1.4	-0.2	0.1	-55.3	
174/10:46:01	73 57.9	013 48.5	0420	172.8	072	210	32951	32069	1.4	-1.3	2.6	-56.5	
174/10:47:01	73 51.2	013 54.1	0412	172.7	073	210	32940	32083	1.6	-0.1	0.4	-55.5	
174/10:48:01	73 44.5	014 00.0	0406	172.8	074	208	32954	32126	1.6	-0.3	-1.7	-53.7	
174/10:49:01	73 38.1	014 05.0	0402	172.7	072	207	32962	32131	1.6	-0.1	-2.9	-55.8	
174/10:50:01	73 31.5	014 10.8	0398	172.7	071	207	32944	32182	1.6	-0.5	-3.2	-55.5	

YEAR 1984 ARDAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
174/10:50:09	73 30.7	014 11.4	0393	172.7	072	206	32939	32142	1.6	-0.4	-1.9	-55.4	PASSING MEDIUM SKELL AND FAIRLY HIGH MINDS ON THE OCEAN.
174/10:51:01	73 25.1	014 15.8	0396	172.4	070	204	32947	32166	1.8	-0.4	-7.9	-54.9	
174/10:52:13	73 17.5	014 21.9	0393	171.7	069	199	32936	32185	1.6	-0.4	-24.0	-55.5	
174/10:53:01	73 12.2	014 26.1	0399	171.7	067	199	32955	32205	1.4	-0.7	-22.7	-56.1	
174/10:54:01	73 05.7	014 31.3	0400	171.5	068	198	32948	32173	1.4	-0.9	-26.8	-55.7	
174/10:55:01	72 59.3	014 36.0	0401	171.5	062	199	32946	32218	1.6	-0.4	-15.7	-55.2	
174/10:56:01	72 52.7	014 41.3	0403	171.1	064	194	32973	32220	1.3	-0.2	-26.7	-54.6	
174/10:57:01	72 46.3	014 46.3	0402	170.8	067	190	32941	32177	1.5	-0.4	-43.0	-55.3	
174/10:58:01	72 39.8	014 51.0	0401	170.3	065	186	32961	32203	1.6	-0.7	-46.8	-55.6	
174/10:59:01	72 33.0	014 55.8	0402	170.4	060	187	32951	32233	1.4	-0.6	-46.3	-56.0	
174/11:00:01	72 26.8	015 00.5	0404	170.4	061	187	32950	32246	1.6	-0.7	-41.0	-56.6	
174/11:01:01	72 20.2	015 05.3	0405	169.7	055	183	32949	32247	1.6	-0.6	-48.1	-55.7	
174/11:02:01	72 13.5	015 09.8	0407	169.8	056	184	32935	32246	1.5	-0.2	-46.0	-54.1	
174/11:03:01	72 06.9	015 14.6	0408	169.5	053	180	32950	32249	1.5	-0.7	-50.9	-55.4	
174/11:04:01	72 00.4	015 19.1	0412	169.9	053	183	32731	32030	0.9	-0.7	-46.1	-55.3	
174/11:05:01	71 53.6	015 23.7	0403	169.0	050	177	31309	30712	-0.5	-1.1	-35.2	-52.0	
174/11:06:01	71 47.1	015 28.0	0396	168.9	049	176	29378	29269	-0.4	-0.1	-34.1	-47.7	
174/11:07:01	71 40.8	015 32.5	0387	168.6	048	174	28171	27579	-0.7	-0.4	-24.1	-42.1	
174/11:08:01	71 34.5	015 36.6	0380	169.1	044	170	26329	25764	-0.9	-0.2	-15.3	-38.0	
174/11:09:01	71 28.4	015 40.8	0367	169.7	047	180	24797	24247	-0.1	0.2	-6.0	-35.7	
174/11:10:01	71 22.7	015 44.2	0360	170.8	047	169	23100	22565	-1.9	1.5	-2.7	-31.6	
174/11:11:01	71 16.4	015 46.6	0369	172.9	041	171	20755	20178	-2.0	0.0	-3.9	-26.0	
174/11:11:33	71 14.1	015 48.4	0252	132.0	053	145	24861	22816	-3.0	-88.8	-40.0	-34.0	92.6 ON HINGOVER.
174/11:12:01	71 13.8	015 55.8	0373	101.8	044	178	20972	20373	0.5	37.8	-4.0	-26.0	
174/11:12:17	71 13.0	016 00.2	0353	147.3	041	184	20467	19976	0.7	42.6	-4.2	-25.3	45 DEGREE RIGHT BANK.
174/11:13:01	71 09.1	015 59.5	0344	159.8	040	175	20119	19625	1.5	0.9	-6.3	-22.5	
174/11:14:01	71 03.6	015 53.8	0333	188.2	039	170	19879	19385	2.0	-7.0	-8.1	-23.4	
174/11:15:01	70 58.1	015 53.0	0337	178.0	041	166	19909	19374	1.7	-1.4	-6.7	-23.0	
174/11:16:01	70 52.6	015 53.2	0341	177.4	042	163	19920	19401	1.5	-0.7	-13.1	-21.9	
174/11:17:01	70 46.8	015 53.7	0344	176.2	042	162	19914	19387	1.5	-0.4	-14.3	-21.7	
174/11:18:01	70 41.1	015 54.3	0346	175.5	044	161	19918	19358	1.4	-1.2	-12.4	-22.1	
174/11:19:01	70 35.4	015 55.2	0347	175.6	042	164	19913	19346	1.6	-0.7	-11.0	-23.9	
174/11:20:01	70 29.4	015 56.1	0348	175.5	042	162	19915	19367	1.6	-0.4	-12.9	-23.3	
174/11:20:23	70 27.5	015 56.6	0348	175.2	044	158	19913	19350	1.4	-0.1	-9.1	-23.3	11 20 20 EXEC REBOOTED.
174/11:21:01	70 23.9	015 57.0	0348	175.6	047	162	19918	19355	1.4	-1.2	-3.4	-21.6	
174/11:22:01	70 18.0	015 57.9	0348	175.1	043	162	19911	19357	1.5	-0.4	-0.5	-24.2	
174/11:23:01	70 12.2	015 58.8	0348	175.7	046	164	19913	19349	1.0	0.1	7.0	-20.8	
174/11:24:01	70 06.4	015 59.9	0347	176.3	047	164	19909	19322	1.4	-0.8	7.3	-23.8	
174/11:25:01	70 00.7	016 00.5	0345	176.5	048	168	19916	19338	1.5	-0.7	7.4	-24.2	
174/11:25:25	69 58.4	016 00.6	0343	176.1	051	164	19906	19312	1.4	-0.1	7.3	-23.3	20 PERCENT CLOUD COVER, MEDIUM SKELL, NO WHITE CAPS.
174/11:26:01	69 55.0	016 01.1	0337	176.2	048	164	19911	19351	1.2	-0.5	7.9	-24.6	
174/11:26:15	69 53.9	016 01.3	0336	176.2	047	163	19893	19353	1.5	-0.6	7.0	-24.0	NADIR CAMERA ON 11 26 15.
174/11:27:01	69 49.5	016 02.1	0325	173.2	051	163	19977	19420	3.1	4.3	7.9	-23.5	
174/11:27:21	69 47.8	016 02.3	0321	174.1	048	164	20009	19441	1.6	-1.7	7.8	-23.0	PROBLEM WITH AUTOPILOT.
174/11:28:01	69 44.2	016 03.0	0324	175.5	051	167	19974	19414	1.2	2.1	7.3	-23.6	
174/11:29:01	69 38.7	016 03.3	0326	178.8	052	166	19903	19354	1.9	-0.8	8.0	-22.8	
174/11:30:01	69 33.3	016 03.6	0330	176.6	050	163	19920	19374	1.4	-0.7	5.4	-22.4	
174/11:31:01	69 27.9	016 04.1	0330	175.8	047	163	19909	19325	1.7	-0.1	0.7	-23.8	
174/11:31:49	69 23.4	016 04.3	0329	176.1	051	164	19926	19349	1.5	-0.3	-0.8	-24.4	*** START OF RUN 8 TIME 11.31.43 LAT 6923.4 N LON 01604.5 E FL 199
174/11:32:01	69 22.4	016 04.5	0330	175.9	051	164	19935	19326	1.5	-0.6	-2.4	-23.5	
174/11:32:17	69 21.1	016 04.7	0332	176.4	051	165	19951	19352	0.9	-0.2	-1.3	-22.7	COMPLETE CLOUD COVER UNDER THE AIRCRAFT.
174/11:32:57	69 17.1	016 05.0	0333	176.0	053	163	19900	19456	1.4	-0.7	-0.7	-24.0	11 32 49 OVER THE MARK.
174/11:33:01	69 16.9	016 04.9	0332	176.2	054	166	19896	19313	1.5	-0.5	-1.8	-21.8	
174/11:33:39	69 13.4	016 05.5	0321	176.1	057	169	19912	19289	1.3	-0.3	-6.0	-23.3	11 33 34 OVER THE MARK.
174/11:33:55	69 12.0	016 05.6	0318	176.5	058	170	19921	19199	1.5	0.9	-3.1	-22.7	CORRECTION: 11 33 55.
174/11:34:01	69 11.5	016 05.7	0317	176.8	060	170	19920	19228	1.1	-0.1	-2.7	-22.0	
174/11:34:27	69 09.1	016 06.0	0314	176.9	057	170	19890	19265	1.5	-0.3	5.1	-21.8	11 34 21 OVER THE MARK.
174/11:35:01	69 06.3	016 06.2	0282	176.8	060	170	19843	19202	3.2	-0.1	-3.8	-22.9	
174/11:35:37	69 03.6	016 06.3	0271	176.6	050	164	19438	18863	2.6	-0.3	-5.6	-22.9	!!! END OF RUN 8 TIME 11.35.38 LAT 6903.6 N LON 01606.3 E FL 194
174/11:36:01	69 01.8	016 06.6	0261	174.4	053	161	19437	18390	2.4	-25.6	-2.4	-23.4	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 8 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
174/11:36:13	69 00.9	016 07.3	0263	160.9	054	166	19255	18723	-0.7	-9.2	-0.9	-21.3	11 35 SOCAMERA OFF.
174/11:37:01	68 57.9	016 12.1	0283	143.2	045	160	17145	16579	-1.6	-4.0	1.1	-14.4	
174/11:38:01	68 54.3	016 20.6	0278	141.2	045	165	14048	13676	-2.0	-0.4	-2.0	-11.0	
174/11:39:01	68 50.4	016 26.1	0261	158.8	041	151	11149	10540	-1.2	-19.6	-0.3	-7.9	
174/11:40:01	68 47.0	016 33.5	0253	139.4	034	158	8270	6789	-2.3	-1.0	8.0	-3.1	
174/11:41:01	68 44.2	016 41.1	0214	139.9	032	156	6630	6041	3.9	-1.5	9.6	3.1	
174/11:42:01	68 41.1	016 44.1	0201	174.2	029	160	5739	5180	-4.2	-1.5	10.5	2.9	
174/11:43:01	68 38.1	016 44.5	0168	176.9	017	180	3633	2571	3.4	-0.1	11.4	5.1	
174/11:44:01	68 35.3	016 44.9	0162	182.5	012	230	2572	1673	1.6	-2.7	12.0	7.6	
174/11:45:01	68 32.8	016 45.1	0143	182.8	019	233	1620	821	-2.4	2.5	12.5	9.1	

3.6 Fifth data flight—Day 176—Evenes RT

All instruments were operational; the main data recording system (ADDAS) had some momentary malfunctions.

A slightly modified pattern 'A' was flown from west to east with the first five legs spaced the usual 10 nm apart but the fifth and sixth spaced only 5 nm apart. The sixth leg was also along the 6° 10′ E meridian to coincide with the estimated position of the now-famous Onstott Line overflown on day 174. This was designed to permit the passive microwave side-lookers to acquire data along that line on leg 5, and the altimeter on leg 6. Upon our approach, we were informed by the Polarstern that the drift had been 10′ further west than the prediction upon which we had based our pattern. Fortunately, that simply meant that the altimeter & side-looking radiometers had exchanged favorable legs. For that flight, our two inertial navigation systems and the Loran-C were all in agreement to within 0.2 nm; none of them had been updated since departure from Evenes!

Our approach to Leg 1 was actually straight-line from 78° 38.2′ N, 2° 26.8′E. This permitted us a spectacular passive microwave image of the eastern edge of the Greenland MIZ. Unfortunately, the entire area was solidly cloud-covered, so photography was precluded. About 100 Km south of the east/west ice edge, an ice streamer, about 25 Km in extent, was observed to meander mostly due east and then south. This streamer was observed on both legs 1 and 2. The MIZEX area itself appeared rather compact, with relatively few open leads of less than 1 Km in with in evidence. The pack signature was monotonously that of moist sea ice, and so the floe structure was indistinguishable. The ice edge in the MIZEX area was quite compact, but with an astonishingly regular sine-wave pattern with a wavelength of about 28 Km. About 2-½ oscillations were observed. A solitary thin ice band, ca. 1 Km wide, was observed running east/west about 30 Km south of the edge across legs 5 & 6.

Leg 6 was extended to 78° 40′N in order to get some good wind/wave data. The visual estimation of wind further south was about 20 m/s, judging from the whitecaps. Unfortunately, we had eliminated both passes over Bjornoye to maximize time over MIZEX, so we shall have to rely on WX charts for our wind comparisons.

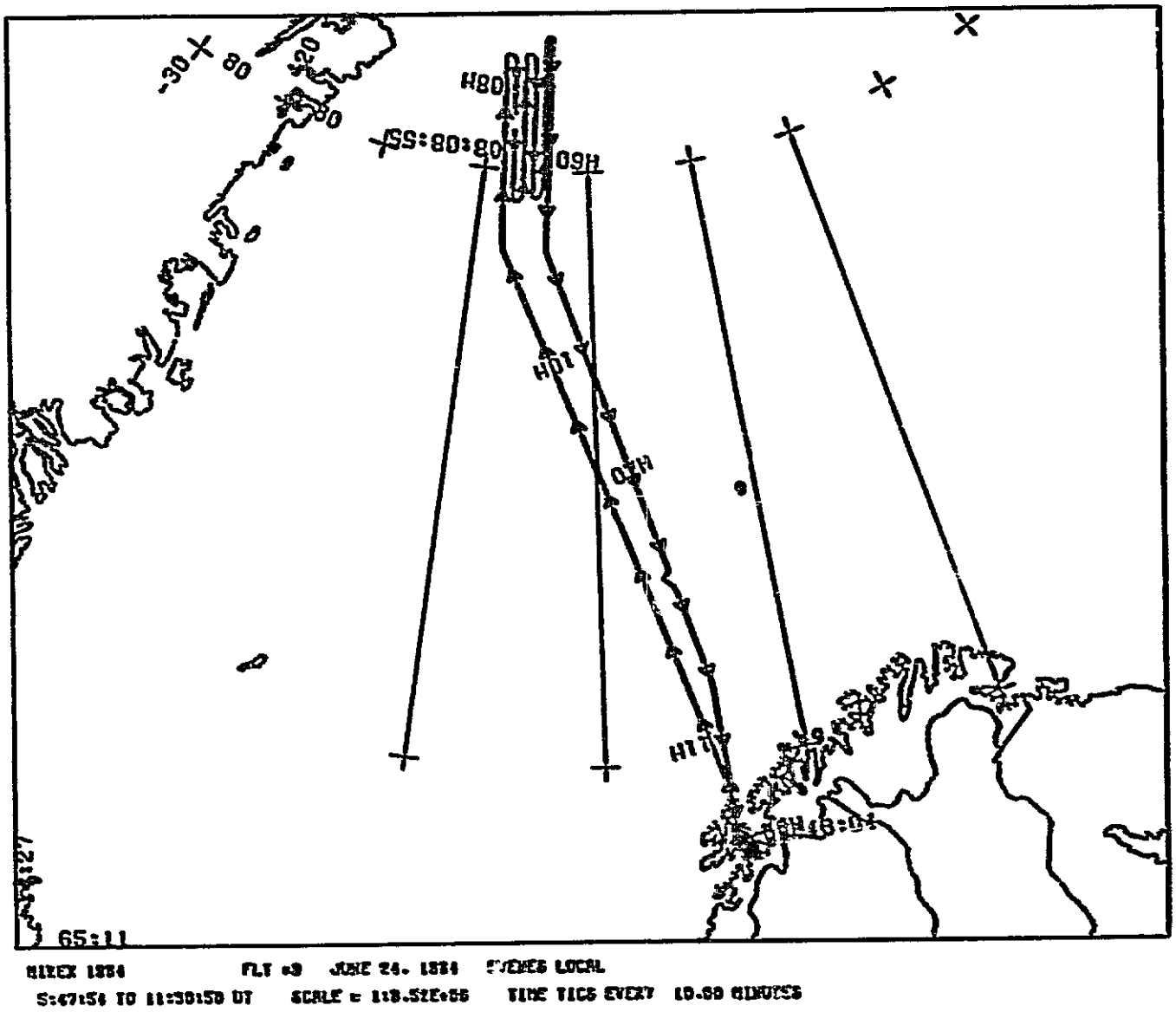


Figure 15. Flight tracks: Evenes RT 6/22

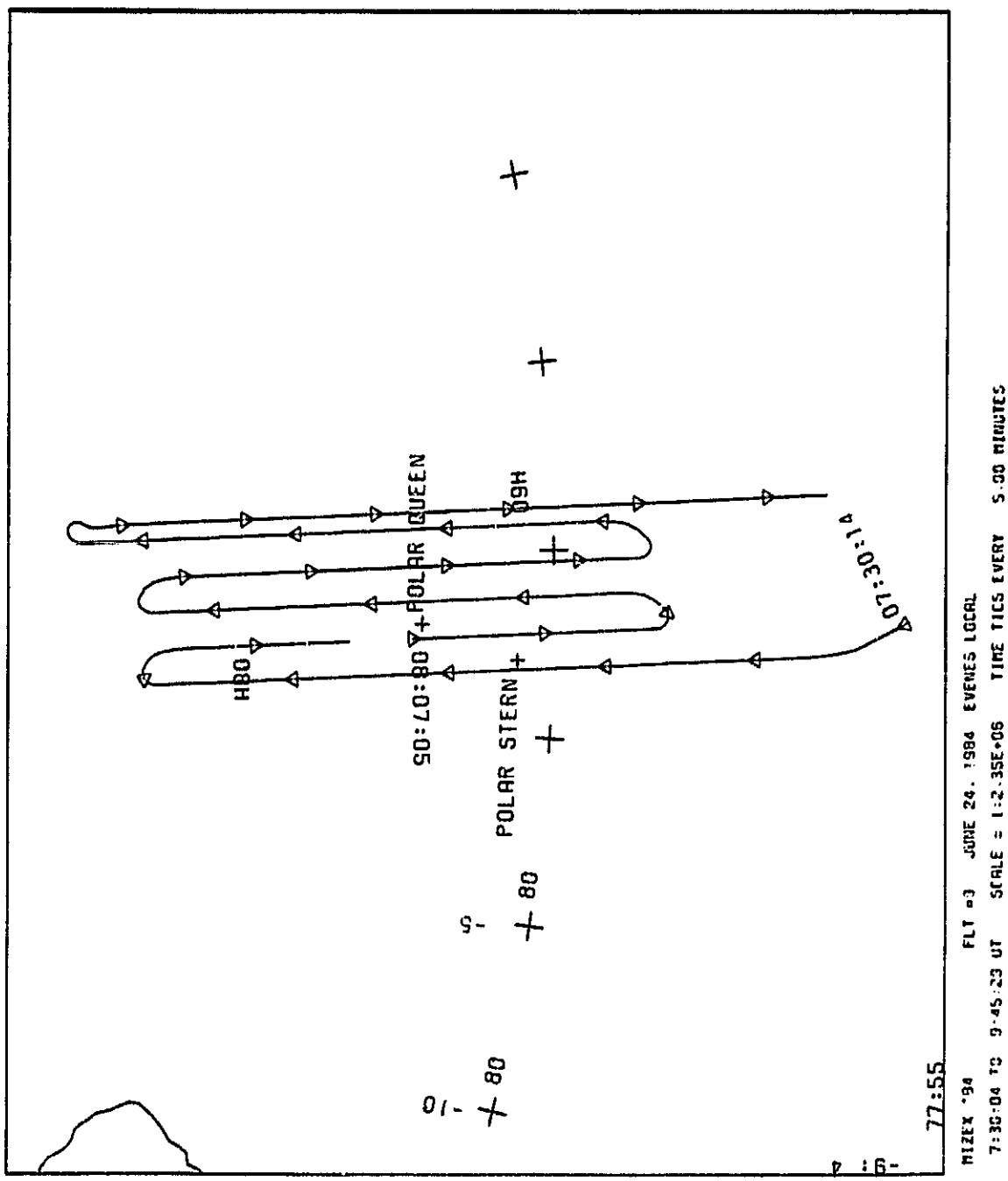


Figure 16. Mosaic pattern: 6/22

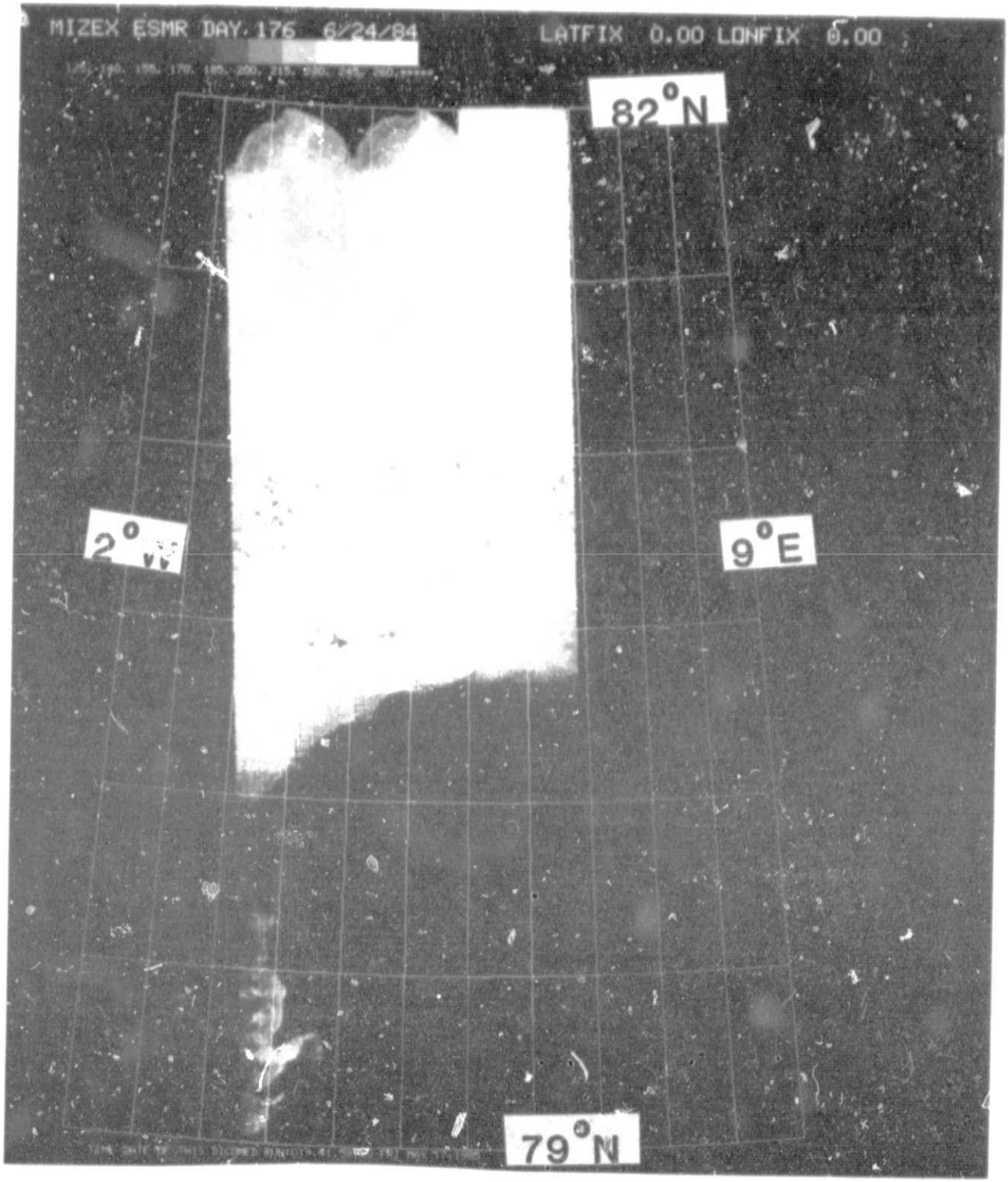


Figure 17. ESMR mosaic: 6/22

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 9 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
176/05:47:46	00 00.0	000 00.0	0000	000.0	000	000	240	108	0.1	-0.6	42.5	11.1	
176/05:48:00	68 29.3	016 41.1	0000	088.8	120	088	239	186	0.1	-0.5	41.3	10.0	
176/05:49:00	68 29.3	016 41.1	0000	088.7	122	088	238	188	0.1	-0.6	36.2	8.4	
176/05:50:00	68 29.3	016 41.1	0000	088.8	122	088	241	187	0.1	-0.6	31.3	9.9	
176/05:51:00	68 29.3	016 41.1	0000	088.8	123	088	240	188	0.1	-0.5	27.1	7.6	
176/05:52:00	68 29.3	016 41.1	0000	088.8	120	088	240	185	0.1	-0.5	23.4	10.5	
176/05:53:00	68 29.3	016 41.1	0000	088.8	122	088	242	188	0.1	-0.6	20.1	8.0	
176/05:54:00	68 29.3	016 41.1	0000	088.6	123	088	238	187	0.1	-0.5	17.5	9.3	
176/05:55:00	68 29.3	016 41.1	0009	225.7	111	224	234	187	-0.8	-0.8	15.0	10.4	
176/05:56:00	68 29.2	016 40.9	0016	176.4	102	176	239	188	-0.7	0.1	14.6	8.3	
176/05:57:00	68 28.9	016 40.7	0016	175.8	101	176	236	188	-0.8	-0.2	14.7	6.6	
176/05:58:00	68 28.7	016 40.9	0006	159.4	112	157	239	189	-0.3	0.3	14.0	9.0	
176/05:59:00	68 28.9	016 40.7	0103	357.6	016	001	279	187	-0.5	-0.7	14.9	9.6	
176/06:00:00	68 31.8	016 40.5	0109	359.6	006	359	1681	187	8.6	-2.0	14.5	4.9	
176/06:01:00	68 35.3	016 40.2	0229	356.3	005	277	3634	3240	11.3	-1.1	14.0	-1.6	
176/06:02:00	68 37.3	016 33.8	0234	239.9	014	199	5923	5288	10.9	-29.4	13.2	-0.4	
176/06:02:04	68 37.0	016 32.9	0234	230.7	014	204	6073	5338	10.9	-29.0	13.1	-2.5	TAK
176/06:02:30	68 35.9	016 30.7	0245	196.6	010	245	6950	6672	8.9	-2.9	8.0	-3.0	TAKE OFF TIME 05 59 14
176/06:02:34	68 35.6	016 30.6	0247	196.1	012	238	7086	6803	9.0	-1.7	8.8	-2.0	JULIAN DAY 176
176/06:02:36	68 35.4	016 30.5	0248	195.6	013	237	7159	6885	8.8	-1.7	8.8	-2.5	FLIGHT 9
176/06:03:00	68 33.8	016 29.3	0257	193.2	016	220	8033	7749	8.9	0.3	2.9	-4.4	
176/06:03:12	68 32.8	016 28.9	0260	193.4	016	213	8500	8196	8.8	0.0	-2.7	-5.2	TAKE O[illegible] TIME [illegible] 59 14
176/06:03:16	68 32.6	016 28.8	0261	193.6	017	214	8648	8336	8.7	0.4	-2.5	-5.6	JULIAN [illegible] 176
176/06:03:18	68 32.5	016 28.6	0261	193.5	015	212	8724	8393	8.9	-0.2	-1.2	-4.9	FLIGHT 9
176/06:03:22	68 32.1	016 28.5	0262	193.7	017	214	8878	8427	8.8	-0.2	-1.7	-6.3	JUNE 24, 1984
176/06:03:24	68 32.0	016 28.5	0262	193.7	015	216	8955	8571	8.9	-0.5	-1.9	-5.7	EVENES/EVENES.
176/06:03:34	68 31.2	016 27.9	0264	193.5	016	213	9340	9037	8.8	-0.5	3.2	-5.4	M/P 1 68-20.1
176/06:03:44	68 30.6	016 27.7	0265	193.5	016	213	9725	9359	8.8	-0.2	0.3	-8.4	M/P 1 68-20.1 16-08.2E
176/06:03:52	68 29.9	016 27.1	0266	193.9	017	217	10018	9403	6.6	0.0	-2.0	-9.9	M/P 2 69-17.3 16-00.1E
176/06:04:00	68 29.5	016 26.8	0270	193.4	016	209	10137	8298	4.7	-0.2	-2.1	-9.4	
176/06:04:02	68 29.3	016 26.6	0271	193.4	016	206	10147	8224	4.5	-0.2	-2.3	-9.8	M/P 3 74-03.7 11-17.3E
176/06:04:12	68 28.6	016 26.3	0276	193.5	015	209	10173	8483	4.0	0.2	-2.7	-10.3	M/P 4 78-38.2 2-26.8E
176/06:04:24	68 27.8	016 25.8	0283	193.7	014	211	10181	9851	3.6	-0.8	-2.5	-8.6	M/P 5 79-38.0 1-59.7E
176/06:04:32	68 27.1	016 25.3	0289	193.6	014	211	10190	9393	3.4	-0.5	-2.8	-9.0	M/P 6 81-37.5 1-00.6E
176/06:04:40	68 25.9	016 24.6	0298	193.5	015	216	10185	9555	3.2	-0.3	9.3	-9.4	M/P 7 81-38.4 1-09.1E
176/06:04:56	68 25.2	016 24.4	0303	193.3	017	213	10176	9849	2.9	-0.1	-1.1	-9.4	M/P 8 79-38.7 2-55.7E
176/06:05:00	68 24.8	016 24.0	0305	194.9	017	223	10170	9839	3.8	14.4	-1.6	-9.5	
176/06:05:06	68 24.3	016 23.6	0306	202.3	021	226	10231	9895	3.9	33.5	-2.5	-10.3	M/P 1' 79-39.3 3-50.6E
176/06:05:32	68 23.0	016 19.6	0307	264.6	014	243	10155	9829	1.4	38.5	-1.9	-8.7	M/P 2' 81-39.1 3-17.8E
176/06:05:48	68 23.4	016 15.8	0320	308.9	012	223	10036	9700	3.3	28.0	3.1	-9.3	M/P 3' 81-39.6 4-26.6E
176/06:05:54	68 23.8	016 14.3	0325	318.2	016	216	9975	9652	2.0	1.6	-0.5	-8.3	M/P 4' 79-39.7 4-46.4E
176/06:06:00	68 24.3	016 13.8	0326	318.6	017	217	9954	9624	3.3	-0.7	-1.8	-9.2	
176/06:06:06	68 24.5	016 13.0	0326	318.4	019	225	9966	8627	2.4	3.6	-2.1	-8.4	M/P 5' 79-39.9 5-42.1E
176/06:06:18	68 25.4	016 11.0	0328	322.2	021	229	9942	8697	3.0	9.1	-1.9	-8.3	M/P 6' 81-39.9 5-35.5E
176/06:06:40	68 27.2	016 08.6	0330	335.0	021	226	9942	9127	3.0	10.1	-1.6	-9.2	M/P 7' 81-40.0 6-10.0E
176/06:06:52	68 28.2	016 07.4	0331	342.0	021	229	9945	9609	3.1	8.2	4.3	-8.4	M/P 8' 79-40.0 6-10.0E
176/06:07:00	68 28.[illegible]	016 07.1	0332	345.0	022	226	9942	9607	3.1	6.4	4.5	-7.7	
176/06:07:02	68 28.9	016 07.1	0332	345.9	022	221	9940	9613	3.0	6.4	1.8	-9.1	M/P 1" 78-40.0 6-10.0E
176/06:07:18	68 30.6	016 06.4	0332	350.7	023	223	9943	9600	3.1	3.3	10.3	-8.9	M/P 2" 74-43.5 12-28.4E
176/06:07:30	68 31.8	016 06.1	0332	352.6	024	221	9949	9280	3.1	2.2	12.7	-9.0	M/P 3" 71-11.1 15-52.0E
176/06:07:46	68 33.2	016 06.0	0332	353.9	023	223	9948	9456	3.0	1.1	6.0	-9.0	M/P 4" 69-17.3 16-00.1E
176/06:07:58	68 34.2	016 05.7	0332	354.4	023	226	9960	7963	3.1	0.6	1.9	-8.8	M/P 5" 69-11.1 16-00.5E
176/06:08:00	68 34.3	016 05.7	0332	354.4	024	226	9961	8167	3.1	0.2	4.0	-10.3	
176/06:08:12	68 35.4	016 05.6	0332	354.4	023	228	9952	7931	3.1	0.2	-0.5	-9.2	M/P 9 68-29.5 16-40.7E ENEV
176/06:08:30	68 37.3	016 05.5	0332	354.1	025	225	9952	7925	3.2	0.1	2.8	-9.1	M/P 6" 68-47.5 16-39.3 HARSA
176/06:08:48	68 38.9	016 05.3	0332	353.9	025	225	9949	9587	3.3	0.1	-1.5	-7.3	M/P 7" 68-35.9 16-40.9 FS
176/06:09:00	68 40.1	016 05.0	0332	353.9	026	223	9962	9087	3.1	-0.1	8.0	-8.7	
176/06:09:04	68 40.3	016 05.2	0332	353.9	023	228	9966	8343	3.0	0.2	7.8	-6.6	M/P 8" 68-27.5 16-41.2E EVN
176/06:09:16	68 41.5	016 04.9	0332	353.7	023	228	9960	7565	2.9	0.2	-0.4	-8.4	CAMERA ON 06 09 GO BOTH KS87.
176/06:09:20	68 41.7	016 05.0	0332	353.6	024	230	9960	8023	3.0	0.0	-0.6	-8.2	9/10 CUMULUS.

YEAR 1984 RODAS FLIGHT LOG --- FLIGHT NO. 9 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
176/06:09:36	68 43.4	016 04.6	0331	353.1	021	234	9963	8303	3.2	-0.6	0.8	-9.1	M/P 1/3 68-22.1 15-56.7E RTV.
176/06:10:00	68 45.4	016 04.3	0330	354.4	022	231	9970	9635	3.4	-0.6	-3.4	-8.5	
176/06:11:00	68 50.9	016 03.9	0329	357.0	020	234	9959	9633	3.1	-1.8	-3.2	-8.2	
176/06:11:00	68 56.4	016 03.5	0327	353.5	022	228	9959	9625	3.2	0.4	-2.5	-9.4	
176/06:12:08	68 57.1	016 03.3	0326	354.1	021	231	9963	9630	2.9	0.1	-1.1	-9.7	CAMERAS OFF 06 11 30.
176/06:13:00	69 01.8	016 02.6	0326	354.7	022	223	9945	9611	3.2	-0.9	-3.9	-8.5	
176/06:13:46	69 06.0	016 02.0	0324	353.7	022	231	9956	9617	3.2	-0.3	-3.7	-7.9	*** START OF RUN 1 TIME 06.13.45 LAT 6906.0 N LON 01602.0 E FL 99
176/06:14:00	69 07.0	016 02.0	0324	354.0	022	236	9952	9608	3.4	-0.4	-3.9	-7.7	
176/06:14:20	69 08.8	016 01.6	0323	353.7	022	233	9957	9545	3.3	-0.6	-4.0	-9.1	10/10 STRATOCUMULUS.
176/06:14:34	69 10.1	016 01.5	0322	353.7	021	234	9955	9556	3.8	-0.8	-4.0	-8.2	06 14 27 DELAY CHANGE.
176/06:15:00	69 12.5	016 01.3	0321	353.7	021	229	9960	9331	3.1	-0.4	-4.3	-9.5	
176/06:15:02	69 12.7	016 01.1	0322	353.8	020	232	9956	9107	3.2	-0.2	-4.3	-9.7	SECOND REFLECTOR 06 14 5[illegible]
176/06:15:16	69 13.9	016 00.9	0322	354.0	021	231	9963	9237	3.1	0.0	-4.1	-9.7	DELAY CHANGE 06 15 11.
176/06:15:34	69 17.5	016 00.5	0322	353.7	021	226	9957	9701	3.2	-0.8	-4.1	-7.1	THIRD REFLECTOR 06 15 43.
176/06:16:00	69 17.8	016 00.5	0322	353.9	022	229	9956	9622	3.2	-0.2	-4.5	-8.7	
176/06:16:12	69 19.0	016 00.2	0323	354.6	021	226	9965	9637	3.3	-0.5	-4.4	-7.2	OVER OCEAN 06 16 05.
176/06:17:00	69 23.1	015 59.6	0323	354.0	020	229	9955	9614	3.2	-0.5	-4.3	-9.3	
176/06:17:14	69 24.5	015 59.5	0322	354.4	019	232	9953	9612	3.3	-0.5	-3.9	-9.1	!!! END OF RUN 1 TIME 06.17.15 LAT 6924.5 N LON 01559.3 E FL 99
176/06:18:00	69 28.7	015 58.8	0348	355.0	020	220	10035	9654	4.7	-0.5	-4.1	-9.5	
176/06:19:00	69 34.3	015 56.3	0352	341.9	021	228	12534	12124	6.1	-2.0	-4.3	-13.4	
176/06:20:00	69 40.1	015 51.9	0366	341.3	019	226	14725	14280	6.4	-0.8	-4.7	-20.1	
176/06:21:00	69 46.1	015 46.6	0376	340.9	021	226	16932	16428	5.4	-0.6	-5.2	-23.4	
176/06:22:00	69 52.0	015 41.7	0387	341.4	020	226	18958	18410	6.3	-0.1	-3.7	-28.7	
176/06:23:00	69 58.1	015 36.4	0392	341.9	013	231	20955	20409	5.2	-0.4	-3.8	-31	
176/06:24:00	70 04.7	015 31.1	0409	341.8	019	214	22460	21820	4.2	-0.7	-4.7	-3[illegible]	
176/06:25:00	70 11.4	015 25.4	0428	341.1	030	204	23647	22957	3.1	-0.3	-5.6	-36.7	
176/06:26:00	70 18.3	015 19.5	0447	341.7	036	189	24735	24050	4.5	-0.9	-5.9	-38.2	
176/06:27:00	70 25.5	015 13.0	0454	342.5	034	183	26055	25311	3.8	-0.5	-1.6	-40.3	
176/06:28:00	70 32.8	015 06.8	0465	341.4	039	185	27100	26335	4.0	-0.8	-2.6	-43.4	
176/06:29:00	70 40.3	015 00.2	0476	341.9	041	178	27997	27234	3.4	-0.1	-8.4	-45.6	
176/06:30:00	70 48.0	014 53.0	0485	341.7	047	178	28933	28119	3.8	-0.4	-0.7	-47.0	
176/06:30:38	70 52.9	014 48.6	0485	341.7	043	184	29604	28783	3.8	-0.4	-5.7	-47.9	TV CAMERA OFF AT 06 30 00 ON LORAN C.
176/06:31:00	70 55.7	014 46.2	0485	341.3	045	185	29981	29142	3.6	-0.6	-4.8	-49.3	
176/06:32:00	71 03.5	014 39.1	0486	341.7	044	178	30840	29987	3.6	-0.7	-7.9	-49.5	
176/06:32:24	71 06.6	014 36.1	0487	342.2	043	175	31173	30315	3.6	0.3	-6.1	-51.3	31,000FT.
176/06:33:00	71 11.3	014 31.8	0487	340.8	041	188	31658	30776	3.9	-0.9	5.1	-50.3	
176/06:34:00	71 18.9	014 24.3	0476	340.4	041	188	32744	31893	4.3	-0.7	3.7	-48.6	
176/06:35:00	71 26.4	014 17.3	0485	341.0	032	190	32991	32135	2.6	-0.3	4.2	-46.8	
176/06:35:50	71 32.7	014 11.0	0490	341.0	034	193	32985	17983	2.4	-1.2	-6.7	-49.1	33,000FT.
176/06:36:00	71 34.2	014 09.5	0490	341.1	030	191	32986	7020	2.5	0.4	-6.0	-47.6	
176/06:37:00	71 41.8	014 02.0	0487	340.7	027	196	32949	32067	2.4	-0.9	4.9	-45.2	
176/06:37:54	71 47.5	013 56.0	0484	340.8	026	192	32975	32082	2.4	0.1	1.5	-45.3	HOUSEKEEPING CHECK WITH MDC - OKAY.
176/06:38:00	71 49.3	013 54.4	0484	340.9	026	198	32970	32076	2.6	0.3	4.7	-46.1	
176/06:39:00	71 57.3	013 46.6	0483	340.4	028	187	32975	32007	2.6	-0.7	-1.0	-46.2	
176/06:40:00	72 04.8	013 38.6	0483	340.3	031	190	32979	32101	2.7	-0.8	-8.9	-45.1	
176/06:41:00	72 12.4	013 30.5	0486	340.7	029	188	32936	32084	2.6	0.1	1.3	-45.2	
176/06:42:00	72 20.0	013 22.3	0489	340.7	026	187	32977	32044	2.5	0.8	3.1	-45.2	
176/06:43:00	72 28.0	013 13.9	0492	340.8	028	181	32989	32029	2.5	-0.7	-6.1	-45.7	
176/06:44:00	72 35.7	013 05.5	0494	340.2	034	180	32951	32031	2.5	-0.4	-2.1	-43.7	
176/06:44:02	72 36.0	013 04.9	0494	340.3	033	179	32947	32025	2.5	-0.2	-3.6	-42.6	ESTIMATED WIND SPEED 40 KNOTS. HEAVY SHELL AND WHITE CAPS.
176/06:45:00	72 43.6	012 56.5	0495	339.7	033	186	32955	32020	2.8	-0.6	3.9	-44.2	
176/06:46:00	72 51.2	012 47.6	0496	339.9	030	191	32991	32013	2.4	-0.2	3.0	-44.6	
176/06:47:00	72 59.1	012 38.9	0497	339.5	030	190	32980	32249	2.4	-0.5	-0.7	-44.0	
176/06:48:00	73 07.0	012 29.5	0497	339.3	028	191	32969	31980	2.3	-0.5	2.9	-43.3	
176/06:49:00	73 14.9	012 20.4	0496	339.4	029	187	32961	31976	2.5	-0.7	3.4	-44.0	
176/06:50:00	73 22.5	012 11.3	0496	339.0	028	192	32954	31976	2.5	-1.0	2.8	-44.8	
176/06:51:00	73 30.4	012 01.4	0494	339.3	027	194	32965	31980	2.5	-1.2	2.8	-42.8	
176/06:52:00	73 38.1	011 52.0	0491	338.8	028	192	32967	31967	2.6	-1.6	0.6	-44.0	
176/06:53:00	73 45.7	011 42.3	0489	338.1	030	193	32975	31969	2.7	-0.4	-7.4	-43.2	
176/06:54:00	73 53.4	011 32.3	0489	338.5	029	188	32965	31955	2.6	-0.3	-4.4	-44.5	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 9 --- HIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
176/06:54:16	73 55.4	011 29.5	0489	338.7	029	186	32977	31988	2.4	-0.2	-5.4	-42.6	ALONG TRACK SURFACE WIND INCREASING AND SIZE OF SHELLS INCREASING.
176/06:55:00	74 00.9	011 22.5	0490	338.1	027	190	32932	31991	2.5	-0.5	-4.5	-44.1	
176/06:56:00	74 08.4	011 11.0	0490	336.2	028	187	32962	31965	2.4	1.5	-10.4	-43.5	
176/06:57:00	74 16.2	011 00.1	0490	338.0	028	185	32975	31939	2.4	-0.9	-9.7	-43.3	
176/06:58:00	74 23.7	010 49.6	0491	337.9	027	179	32951	31916	2.5	-0.3	-11.9	-42.6	
176/06:59:00	74 31.3	010 38.8	0491	337.6	028	182	32966	31933	2.5	-0.2	-12.1	-42.2	
176/06:59:04	74 32.0	010 38.0	0490	337.6	029	183	32969	31939	2.6	-0.4	-12.1	-44.0	10/10 STRATOCUMULUS.
176/07:00:00	74 38.9	010 27.5	0491	337.3	030	164	32961	31907	2.5	-0.3	-12.2	-44.2	
176/07:01:00	74 46.6	009 16.4	0492	337.3	028	184	32979	31923	2.6	-0.7	-11.7	-42.8	
176/07:01:18	74 49.0	010 13.0	0492	337.1	028	186	32955	31891	2.5	-0.5	-11.7	-41.5	NORTH - ENTERING STRATOCUMULUS AND ALTOSTRATUS ASSOCIATED WITH LOW PRESSURE.
176/07:02:00	74 54.0	010 05.5	0492	336.7	030	186	32967	31905	2.7	0.1	-9.6	-40.8	
176/07:03:00	75 01.9	009 53.7	0491	336.7	029	186	32957	31904	2.5	-0.2	-9.9	-41.6	
176/07:04:00	75 09.4	009 42.1	0490	336.6	029	186	32974	31892	2.5	-0.3	-10.7	-42.6	
176/07:05:00	75 16.9	009 30.2	0490	336.3	032	183	32967	31909	2.6	-0.6	-10.3	-41.5	
176/07:06:00	75 24.5	009 18.0	0489	336.3	028	183	32969	31862	2.5	-0.4	-9.8	-40.2	
176/07:07:00	75 32.0	009 05.7	0488	335.7	029	184	32954	31879	2.6	-0.2	-9.4	-41.0	
176/07:08:00	75 39.1	008 53.3	0487	336.0	028	183	32964	31880	2.6	-0.6	-9.0	-42.2	NOW ENTERING 10/10 STRATOCUMULUS, 5/10 ALTOSTRATUS.
176/07:09:00	75 47.0	008 40.5	0486	335.5	028	184	32971	31871	2.5	-0.7	-8.6	-40.7	
176/07:10:00	75 54.4	008 27.8	0486	335.6	028	181	32977	31877	2.6	-0.5	-7.4	-40.7	
176/07:10:08	75 55.2	008 26.0	0486	335.5	029	181	32971	31870	2.7	-0.4	-6.5	-40.2	07 09 00 REBALANCE HYGROMTERS.
176/07:10:24	75 57.2	008 22.9	0487	335.5	029	183	32966	31895	2.7	-0.2	-6.6	-39.7	CORRECTION: HYGROMETERS.
176/07:11:00	76 01.6	008 14.9	0487	335.2	029	183	32975	31867	2.8	-0.6	-6.6	-41.4	
176/07:12:00	76 09.3	008 01.4	0488	334.8	028	182	32969	31862	2.5	-0.5	-12.2	-39.0	
176/07:13:00	76 16.6	007 47.9	0488	334.8	026	183	32967	31838	2.6	-0.5	-13.7	-40.2	
176/07:14:00	76 24.0	007 34.5	0488	335.0	026	183	32962	31846	2.5	-0.7	-8.8	-40.0	
176/07:14:38	76 28.7	007 25.1	0488	334.4	024	188	32962	31832	2.5	-0.2	-15.0	-40.4	PRINT CHECK ON ADDAS WITH MOC - OKAY.
176/07:15:00	76 31.5	007 20.0	0488	334.4	025	187	32963	31840	2.4	-0.5	-8.5	-41.5	
176/07:15:04	76 32.0	007 19.0	0488	334.4	024	188	32959	31865	2.5	-0.7	-8.6	-39.7	CLOUD STRUCTURE CENTER OF LOW PRESSURE IS NORTH AND EAST OF US.
176/07:16:00	76 38.9	007 05.6	0489	333.9	024	183	32962	31863	2.5	-0.5	-14.9	-39.5	
176/07:17:00	76 46.2	006 51.1	0490	334.4	027	177	32957	31832	2.6	-0.7	-20.2	-40.1	
176/07:18:00	76 53.8	006 36.0	0490	334.0	025	175	32972	31830	2.4	-0.2	-10.4	-40.5	
176/07:18:54	77 00.4	006 22.3	0490	333.2	025	183	32960	31806	2.5	-0.9	-14.4	-38.4	OVER 10/10
176/07:19:00	77 01.1	006 21.0	0490	333.4	023	179	32965	31843	2.4	0.2	-14.0	-38.3	
176/07:19:32	77 04.9	006 12.9	0490	333.7	025	180	32963	31820	2.4	-0.4	-26.7	-38.2	10/10 ALTOSTRATUS, CLOUD HIGH 30,000FT.
176/07:20:00	77 08.3	006 05.6	0490	333.4	024	179	32983	31815	2.5	-0.8	-17.6	-39.4	
176/07:21:00	77 15.8	005 49.6	0490	333.2	022	175	32974	31819	2.3	-0.2	-25.7	-41.1	
176/07:21:18	77 18.0	005 44.5	0490	333.1	023	179	32972	31808	2.3	-0.7	-23.3	-39.6	POLAR QUEEN - 80 36N 3 27E ESTIMATED POSITION.
176/07:22:00	77 23.0	005 33.5	0491	333.2	024	175	32971	31814	2.3	-0.7	-20.5	-41.8	
176/07:23:00	77 30.4	005 17.5	0493	333.1	024	175	32972	31791	2.4	-0.3	-29.5	-38.7	
176/07:24:00	77 37.9	005 00.4	0495	332.3	026	175	32963	31789	2.3	-0.2	-17.5	-40.3	
176/07:25:00	77 45.2	004 42.8	0497	332.2	028	173	32973	31786	2.3	-0.6	-14.9	-41.1	
176/07:26:00	77 52.4	004 25.3	0498	331.9	028	175	32972	31774	2.1	-0.5	-14.9	-38.9	
176/07:27:00	78 00.0	004 07.1	0499	331.8	020	172	32972	31785	2.2	-0.3	-14.9	-40.7	
176/07:28:00	78 07.4	003 49.1	0500	331.2	027	172	32965	31772	2.3	-0.8	-15.6	-39.6	
176/07:29:00	78 14.5	003 30.6	0500	330.8	029	173	32977	31784	2.2	-0.7	-15.5	-40.2	
176/07:29:30	78 18.3	003 21.1	0500	330.5	028	174	32965	31766	2.2	-0.6	-15.9	-39.8	POLAR STERN 80 09N 02 07E.
176/07:29:44	78 20.2	003 16.3	0500	330.6	026	177	32974	31774	2.2	-0.4	-14.8	-39.9	POLAR QUEEN 80 36N 02 59E.
176/07:30:00	78 22.1	003 10.5	0501	330.5	026	178	32969	31773	2.2	-0.9	-14.7	-39.2	
176/07:30:50	78 28.1	002 54.5	0500	330.4	025	175	32971	31751	2.2	-0.5	-13.1	-38.7	ICE ON THE RADAR - JOHN RELLER.
176/07:31:00	78 29.3	002 51.3	0500	330.3	025	175	32964	31761	2.2	-0.5	-13.0	-40.0	
176/07:32:00	78 36.6	002 31.6	0500	334.1	024	165	32995	31776	2.3	20.6	-15.5	-41.5	
176/07:32:04	78 37.1	002 30.2	0500	337.5	021	163	32990	31785	2.0	20.1	-14.6	-40.8	H/P 4 07 31 57.
176/07:33:00	78 44.9	002 22.0	0500	349.8	022	170	32957	31769	2.0	3.7	-18.6	-38.8	
176/07:34:00	78 53.0	002 17.0	0498	356.2	022	170	32964	31747	2.1	0.4	-17.8	-39.7	
176/07:35:00	79 01.2	002 14.5	0497	356.8	020	167	32960	31778	2.3	-0.7	-18.1	-39.4	
176/07:36:00	79 09.5	002 11.1	0496	355.9	020	171	32971	31716	2.1	-0.4	-18.4	-40.9	
176/07:37:00	79 17.6	002 08.4	0495	356.8	023	164	32956	31711	2.2	-0.2	-17.8	-40.1	
176/07:38:00	79 25.7	002 05.2	0494	356.5	023	163	33027	31790	2.4	-0.6	-17.1	-41.3	
176/07:38:10	79 27.1	002 04.6	0494	356.3	024	165	33036	31803	2.2	-0.7	-16.0	-40.2	POLAR STERN - 07 36 00 - 80 09.8N 02 03.3E.
176/07:38:32	79 30.1	002 03.8	0494	356.4	024	163	33067	31680	2.2	-0.2	-12.8	-40.2	INCREASED 100 FT FOR JOHN POKELL.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 9 --- MIZEX

-----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
176/07:39:00	79 34.0	002 02.2	0494	356.4	025	165	33060	31876	2.4	-0.5	-14.7	-41.6	
176/07:39:30	79 37.9	002 00.4	0495	356.4	024	163	33066	31903	2.2	-0.2	-16.9	-41.4	*** START OF RUN 2 TIME 07.39.29 LAT 7937.9 N LON 00200.4 E FL 330
176/07:40:00	79 42.1	001 58.7	0495	356.5	024	163	33062	31902	2.2	-0.3	-18.2	-41.6	
176/07:40:04	79 42.7	001 58.8	0496	356.4	024	163	33067	31907	2.2	0.0	-18.4	-40.8	10/10 STRATOCUMULUS, 9/10 ALTOSTRATUS, AND CIRRUS PATCHES.
176/07:41:00	79 50.4	001 55.5	0497	356.4	027	166	33051	31883	2.2	-0.8	-19.7	-39.7	
176/07:42:00	79 58.7	001 52.3	0499	356.3	028	164	33059	31901	2.1	-0.5	-20.6	-41.2	
176/07:43:00	80 07.0	001 48.5	0501	356.5	027	163	33048	31828	2.3	-0.5	-14.8	-41.1	
176/07:44:00	80 15.1	001 44.8	0502	356.4	028	159	33057	31847	2.5	-0.5	-14.4	-40.8	
176/07:44:40	80 20.9	001 42.3	0502	356.4	027	158	33060	31835	2.1	-0.3	-12.5	-41.8	CLEARLY SEE EDDIES TO THE WEST OF US ON THE RADAR.
176/07:45:00	80 23.6	001 40.9	0502	356.6	027	157	33055	31852	2.1	-0.4	-12.3	-42.4	
176/07:46:00	80 31.8	001 37.1	0500	356.9	027	155	33052	31866	2.1	-0.7	-12.8	-40.7	
176/07:47:00	80 40.1	001 33.0	0498	356.2	027	157	33061	31865	2.0	-0.2	-14.0	-41.4	
176/07:47:14	80 42.0	001 32.3	0498	356.4	029	160	33044	31862	2.2	-0.2	-13.5	-41.5	MIDDLE LEVEL OF THE CLOUD DECK IS 50 PERCENT ALTOSTRATUS.
176/07:48:00	80 48.4	001 26.8	0498	356.4	027	157	33053	31853	2.1	-0.4	-11.8	-43.8	
176/07:49:00	80 56.7	001 24.8	0496	356.8	028	155	33063	31878	2.0	-0.7	-12.8	-42.9	
176/07:49:54	81 03.9	001 20.9	0496	356.8	031	154	33057	31877	2.3	-0.7	-12.3	-43.6	MIDDLE LEVEL CLOUD LAYER IS DIMINISHING 10/10 STRATOCUMULUS LOWER LAYER.
176/07:50:00	81 04.7	001 20.6	0497	356.9	033	154	33054	31891	2.2	-1.0	-11.6	-44.0	
176/07:51:00	81 13.0	001 16.9	0496	356.6	031	154	33051	31882	2.3	-0.2	-11.2	-42.1	
176/07:52:00	81 21.2	001 11.3	0497	356.0	032	159	33052	31895	2.3	-0.6	-11.0	-42.6	
176/07:53:00	81 29.3	001 06.6	0496	356.7	031	152	33049	31892	2.4	-0.3	-11.1	-42.5	
176/07:54:35	00 00.0	000 00.0	0000	000.0	000	000	33056	31894	2.4	-1.1	-10.4	-42.4	
176/07:54:53	81 44.8	000 57.3	0499	356.3	034	156	33046	31902	2.3	-0.2	-10.5	-42.9	ADDAS DOWN 07 54 55 AND BACK UP 07 54 38.
176/07:55:01	81 46.1	000 56.6	0499	356.3	035	155	33056	31919	2.3	-0.5	-10.5	-43.0	||| END OF RUN 2 TIME 07.55.00 LAT 8146.1 N LON 00056.6 E FL 330
176/07:56:01	81 52.3	001 17.1	0431	096.3	030	160	33137	32050	1.0	36.3	-10.8	-43.7	
176/07:57:01	81 48.4	001 56.3	0415	155.3	046	160	32994	31875	2.2	14.8	-10.2	-44.3	
176/07:58:01	81 41.7	002 06.8	0413	172.1	047	158	33029	31911	2.5	1.6	-10.8	-43.9	
176/07:58:07	81 41.1	002 07.0	0413	173.6	047	158	33028	31901	2.5	0.9	-10.5	-43.1	ENTIRE NORTHERN OF MIZEX BOX HAS 10/10 STRATOCUMULUS AND NO MIDDLE CLOUDS.
176/07:58:35	81 37.9	002 08.8	0412	174.6	045	156	33035	31910	2.6	0.0	-10.9	-42.6	*** START OF RUN 3 TIME 07.58.34 LAT 8137.9 N LON 00208.8 E FL 330
176/07:58:43	81 36.9	002 09.6	0412	173.7	047	155	33040	31896	2.5	-0.1	-11.0	-43.2	NORTHERN END OF MIZEX BOX.
176/07:59:01	81 34.9	002 10.5	0411	173.9	046	153	33047	31927	2.5	-0.9	-10.8	-43.6	
176/08:00:01	81 28.0	002 13.4	0415	174.1	044	155	33062	31912	2.6	-0.4	-10.9	-43.3	
176/08:00:41	81 23.7	002 15.8	0420	174.3	041	155	33066	31933	2.4	-0.5	-11.5	-43.6	LOWER HALF OF THE MIZEX BOX HAS 10/10 STRATOCUMULUS AND 10/10 ALTOSTRATUS.
176/08:00:49	81 22.6	002 16.3	0420	174.5	041	157	33056	31914	2.2	-0.7	-11.6	-43.3	WITH CIRRUS AND PATCHES.
176/08:01:01	81 21.1	002 17.2	0421	174.5	041	157	33054	31931	2.3	-0.4	-11.6	-42.9	
176/08:02:01	81 14.2	002 20.0	0421	174.5	042	157	33055	31931	2.2	-0.6	-12.1	-42.3	
176/08:03:01	81 07.1	002 22.6	0422	174.5	040	154	33057	31921	2.4	-1.2	-12.7	-40.9	
176/08:04:01	81 00.0	002 25.7	0423	174.4	037	152	33046	31911	2.5	-0.8	-13.6	-41.8	
176/08:06:58	00 00.0	000 00.0	0000	000.0	000	000	33051	31874	2.2	-0.8	-14.7	-41.6	
176/08:07:00	80 39.0	002 34.1	0431	175.2	038	162	33053	31882	2.1	-0.6	-14.7	-40.6	
176/08:07:12	80 37.5	002 34.3	0432	175.2	037	159	33051	31871	2.4	-0.8	-16.1	-39.9	08 04 40 ADDAS DOWN - BACK UP 08 06 59.
176/08:08:00	80 32.1	002 36.4	0433	175.2	041	160	33059	31908	2.0	-1.0	-14.9	-41.0	
176/08:09:00	80 24.6	002 39.5	0432	175.3	040	160	33040	31855	2.3	-0.8	-18.3	-42.0	
176/08:10:00	80 17.6	002 41.4	0430	175.0	042	158	33050	31853	2.2	-0.7	-18.3	-42.3	
176/08:11:00	80 10.5	002 44.4	0429	175.0	041	157	33049	31922	2.2	-0.8	-20.0	-39.8	
176/08:12:00	80 03.3	002 46.6	0431	174.7	036	155	33045	31908	2.3	-0.5	-17.3	-41.3	
176/08:13:00	79 56.3	002 49.3	0432	175.8	035	163	33051	31901	2.3	-0.5	-19.6	-42.6	
176/08:14:00	79 49.0	002 51.6	0434	175.3	035	159	33045	31912	2.2	-0.7	-19.1	-40.7	
176/08:15:00	79 41.7	002 53.7	0435	175.7	036	162	33052	31914	2.3	-0.4	-15.8	-41.5	
176/08:16:00	79 34.7	002 56.1	0435	175.8	036	160	33056	31905	2.2	-0.2	-17.6	-41.3	
176/08:16:10	79 33.4	002 56.4	0435	176.0	035	161	33061	31900	2.0	-0.1	-17.9	-40.8	||| END OF RUN 3 TIME 08.16.11 LAT 7933.4 N LON 00256.4 E FL 330
176/08:17:00	79 28.8	003 11.6	0434	094.1	022	123	33218	32163	2.8	-43.0	-17.5	-41.1	
176/08:18:00	79 33.6	003 43.5	0483	031.7	028	163	32991	31878	2.7	-20.8	-17.3	-39.9	
176/08:19:00	79 41.5	003 51.6	0496	359.9	032	166	33003	31883	2.3	-4.9	-17.2	-40.8	
176/08:19:20	79 44.3	003 51.1	0497	358.1	033	160	33018	31916	2.3	-1.5	-17.5	-40.9	*** START OF RUN 4 TIME 08.19.19 LAT 7944.3 N LON 00351.1 E FL 330
176/08:20:00	79 49.6	003 49.1	0498	357.9	033	166	33047	31925	2.3	-0.3	-18.3	-40.4	
176/08:21:00	79 58.0	003 46.9	0500	358.3	034	169	33054	31940	2.2	-0.8	-17.8	-41.2	
176/08:22:00	80 06.3	003 45.1	0501	358.6	032	166	33049	31932	2.1	-0.7	-18.2	-40.7	
176/08:23:00	80 14.5	003 43.0	0503	357.8	036	170	33049	31933	2.3	-0.5	-19.9	-41.1	
176/08:23:58	80 22.9	003 40.8	0504	357.9	034	176	33061	31867	2.0	-0.6	-20.6	-43.3	10/10 STRATOCUMULUS, 10/10 ALTOSTRATUS AND CIRRUS AND PATCHES.
176/08:24:00	80 22.9	003 41.1	0504	357.9	033	175	33052	31861	2.0	-0.5	-21.7	-42.8	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 9 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
176/08:26:00	80 31.3	003 38.9	0504	357.5	031	174	33035	31848	2.1	-0.7	-20.7	-41.2	
176/08:26:00	80 39.5	003 36.8	0502	358.1	029	166	33057	31890	1.9	-0.4	-16.0	-41.4	
176/08:27:00	80 48.0	003 34.1	0500	358.7	028	158	33058	31805	2.0	-0.5	-17.8	-42.1	
176/08:28:00	80 56.3	003 32.1	0498	359.4	029	145	33049	31905	2.1	0.2	-19.2	-42.0	
176/08:29:00	81 04.3	003 29.4	0497	358.6	033	156	33058	31935	2.0	-0.5	-16.3	-41.5	
176/08:30:00	81 12.8	003 27.0	0498	358.9	033	151	33047	31915	2.0	-0.6	-14.1	-43.5	
176/08:31:00	81 21.0	003 24.5	0500	359.1	037	153	33046	31913	2.0	-0.7	-13.0	-46.1	
176/08:32:00	81 29.1	003 21.9	0503	359.1	041	156	33053	31933	2.2	-0.7	-13.3	-43.7	
176/08:33:00	81 37.9	003 18.9	0506	358.7	042	157	33040	31912	2.1	-0.8	-13.5	-43.5	
176/08:34:00	81 46.1	003 15.9	0508	358.7	042	154	33070	31939	2.0	-0.5	-12.5	-42.9	!!! END OF RUN 4 TIME 08.33.59 LAT 8146.1 N LON 00315.9 E FL 330
176/08:35:00	81 53.6	003 27.9	0454	075.3	064	155	33206	32143	2.9	43.0	-12.0	-44.3	
176/08:36:00	81 50.6	004 10.1	0416	149.8	057	159	32980	31864	2.1	15.9	-11.6	-43.8	
176/08:37:00	81 44.1	004 23.3	0413	172.3	053	159	33022	31937	2.1	2.7	-11.7	-46.7	
176/08:37:34	81 40.3	004 24.6	0413	175.2	053	160	33042	31947	2.1	-0.1	-12.2	-45.9	*** START OF RUN 5 TIME 08.37.35 LAT 8140.3 N LON 00424.6 E FL 330
176/08:38:00	81 37.4	004 25.3	0413	176.1	051	159	33050	31950	2.1	-0.2	-13.0	-46.3	
176/08:38:06	81 36.6	004 25.7	0412	176.2	050	160	33049	31936	2.2	-0.4	-13.3	-46.4	10/10 STRATOCUMULUS.
176/08:39:00	81 30.5	004 27.1	0412	176.1	048	159	33059	31953	2.1	-0.4	-12.9	-44.0	
176/08:40:00	81 23.7	004 28.8	0414	176.7	046	161	33048	31953	2.4	-1.0	-13.1	-44.8	
176/08:41:00	81 16.8	004 29.9	0419	176.1	039	154	33052	31967	2.3	-0.5	-13.5	-44.2	
176/08:42:00	81 09.7	004 31.2	0425	176.5	037	154	33056	31959	2.2	-0.6	-13.9	-42.5	
176/08:43:00	81 02.6	004 32.7	0431	176.8	039	158	33056	31929	2.2	-1.0	-13.9	-44.0	
176/08:44:00	80 55.5	004 33.9	0434	176.5	036	156	33050	31915	2.1	-0.4	-14.1	-43.7	
176/08:45:00	80 48.0	004 35.2	0437	176.8	033	155	33052	31924	2.0	-0.8	-14.2	-43.7	
176/08:46:00	80 41.0	004 36.0	0437	177.2	038	161	33054	31900	2.0	-0.4	-14.2	-40.3	
176/08:47:00	80 33.8	004 37.4	0436	177.3	037	163	33049	31887	2.0	-0.7	-14.9	-40.5	
176/08:48:00	80 26.5	004 38.6	0435	177.0	039	161	33056	31886	1.9	-0.7	-15.4	-41.4	
176/08:49:00	80 19.2	004 39.6	0436	177.0	039	160	33057	31899	1.9	-1.1	-15.6	-41.1	
176/08:50:00	80 12.1	004 40.9	0435	177.0	039	161	33036	31904	2.0	-0.6	-14.1	-41.8	
176/08:51:00	80 04.8	004 42.1	0433	177.7	041	166	33048	31958	2.0	-0.4	-15.5	-41.2	
176/08:52:00	79 57.5	004 42.7	0431	177.3	044	163	33048	31917	2.0	-0.7	-17.0	-44.0	
176/08:53:00	79 50.5	004 43.7	0431	177.4	040	166	33056	31947	2.0	-0.6	-17.0	-42.4	
176/08:54:00	79 43.1	004 44.9	0430	177.7	036	167	33049	31944	2.0	-0.5	-16.2	-41.2	
176/08:54:46	79 37.7	004 45.4	0431	178.1	040	166	33057	31932	1.8	-0.7	-14.8	-43.3	!!! END OF RUN 5 TIME 08.54.47 LAT 7937.7 N LON 00445.8 E FL 330
176/08:55:00	79 36.2	004 46.1	0429	167.9	042	151	33157	32107	5.5	-40.8	-15.9	-41.5	
176/08:56:00	79 34.8	005 16.8	0478	050.5	035	172	32872	31801	1.6	-1.9	-14.5	-41.3	
176/08:57:00	79 41.5	005 41.0	0492	013.3	029	161	33003	31891	2.2	-14.0	-14.4	-38.5	
176/08:58:00	79 49.6	005 43.1	0495	359.7	027	161	33035	31932	2.0	-0.9	-16.1	-40.9	*** START OF RUN 6 TIME 08.58.01 LAT 7949.8 N LON 00542.9 E FL 330
176/08:58:34	79 54.3	005 42.3	0495	360.0	025	157	33051	31963	2.0	0.3	-16.0	-42.8	10/10 ALTOSTRATUS, 10/10 STRATOCUMULUS AT THE START OF THIS RUN.
176/08:59:00	79 57.7	005 42.1	0494	000.4	025	160	33048	31966	1.8	-0.3	-16.6	-43.2	
176/09:00:00	80 06.0	005 41.5	0496	000.7	034	162	33046	31930	2.2	-0.5	-16.9	-41.8	
176/09:01:00	80 14.2	005 41.1	0499	000.7	036	166	33050	31908	2.1	-0.6	-16.7	-43.4	
176/09:02:00	80 22.5	005 40.8	0501	000.9	035	160	33059	31905	2.0	-0.8	-16.4	-43.2	
176/09:03:00	80 30.9	005 40.4	0503	000.6	035	164	33058	31921	1.9	-0.6	-14.8	-41.6	
176/09:03:02	80 31.3	005 40.5	0503	000.6	035	164	33054	31916	1.8	-0.6	-14.8	-41.5	09:02:18 INS READS 80 DEGREES 25.9 NORTH 05 40.0 MINUTES EAST
176/09:03:18	80 33.5	005 40.4	0504	000.5	035	164	33055	31912	1.9	-0.3	-15.2	-41.4	LORAN C READS 80 24.6 NORTH 05 DEGREES 42.1 MINUTES EAST
176/09:04:00	80 39.3	005 39.3	0504	000.4	037	167	33050	31907	2.0	-0.7	-15.0	-42.5	
176/09:05:00	80 47.6	005 39.7	0505	000.4	036	168	33052	31922	1.8	-1.1	-15.9	-42.0	
176/09:06:00	80 56.3	005 38.9	0503	000.5	033	165	33054	31925	1.9	-0.4	-15.9	-42.4	
176/09:06:36	81 01.2	005 38.6	0502	000.6	033	162	33048	31932	1.9	-0.7	-15.5	-41.4	09 05 26 - INS 80 52.1N 05 38.8E.
176/09:06:54	81 03.8	005 38.4	0501	000.5	033	165	33040	31927	2.0	-0.8	-15.5	-40.3	LORAN C - 80 50.7N 05 41.2E AT 09 05 26.
176/09:07:00	81 04.3	005 38.6	0501	000.5	031	163	33047	31935	2.0	-0.8	-15.1	-41.1	
176/09:08:00	81 12.5	005 38.0	0500	000.7	033	162	33049	31943	2.0	-0.5	-15.3	-43.8	
176/09:09:00	81 21.1	005 37.5	0500	000.9	037	161	33049	31956	2.1	9.7	-13.9	-44.7	
176/09:10:00	81 29.3	005 37.0	0503	000.7	041	164	33052	31981	2.1	-0.7	-13.6	-45.4	
176/09:11:00	81 37.5	005 36.8	0505	000.7	042	166	33050	31962	1.9	-0.9	-13.4	-44.7	
176/09:12:00	81 46.3	005 36.0	0508	000.6	043	166	33052	31986	2.1	-0.6	-12.7	-46.8	
176/09:13:00	81 54.7	005 35.4	0512	001.0	046	162	33045	31960	1.9	-0.4	-10.7	-48.4	
176/09:14:23	00 00.0	000 00.0	0000	000.0	000	000	33061	31999	2.0	-0.5	-9.1	-47.3	
176/09:15:01	82 11.4	005 42.3	0482	049.5	065	158	33229	32227	2.9	45.1	-11.2	-46.5	
176/09:15:35	82 12.0	006 09.6	0410	134.3	052	181	33110	32141	2.8	44.9	-8.9	-47.1	9 14 15 END OF RUN 6, LAT 82 06.1N LON 5 35.7E.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 9 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
176/09:16:01	82 09.5	006 17.1	0399	197.0	055	184	33114	32115	2.4	43.0	-9.6	-47.3	
176/09:16:21	82 07.5	006 08.1	0411	204.2	065	167	32933	31889	3.3	-27.7	-9.7	-46.8	LORAN C - 82 05.6N LON 05 39.0E AS OF 9 14 15.
176/09:17:01	82 03.2	006 04.8	0396	175.6	065	166	32956	31903	2.2	-1.9	-8.6	-48.0	
176/09:17:29	82 00.2	006 06.8	0394	174.6	063	167	33010	31950	2.0	1.2	-6.8	-47.4	DURING TURN YOU COULD SEE THRU THE CLOUDS 95 PERCENT ICE CONCENTRATION.
176/09:17:55	81 57.2	006 08.0	0394	176.5	058	168	33018	31989	2.1	0.7	-10.3	-46.8	*** START OF RUN 7 TIME 09.17.56 LAT 8157.2 N LON 00609.0 E FL 330
176/09:18:01	81 56.6	006 07.9	0395	176.9	057	168	33016	31987	2.4	0.4	-10.9	-45.8	
176/09:19:01	81 50.0	006 08.7	0393	170.5	052	169	33038	32052	2.2	-0.5	-12.0	-47.2	
176/09:20:01	81 43.5	006 08.8	0403	178.9	048	169	33059	32025	2.1	-0.7	-12.5	-46.2	
176/09:21:01	81 36.7	006 09.0	0412	178.6	048	167	33051	32016	2.0	-0.3	-13.3	-45.5	
176/09:22:01	81 29.8	006 08.4	0417	178.5	041	164	33053	31998	2.1	-0.9	-13.0	-44.6	
176/09:23:01	81 22.7	006 09.6	0422	178.1	038	157	33060	31985	2.0	-0.7	-14.8	-44.3	
176/09:24:01	81 15.8	006 09.0	0425	178.7	034	164	33057	31996	2.1	-0.8	-15.9	-42.9	
176/09:25:01	81 08.7	006 09.0	0428	178.9	040	168	33065	31973	2.0	-1.1	-16.5	-41.6	
176/09:26:01	81 01.5	006 08.8	0428	178.9	040	170	33059	31960	1.9	-0.5	-16.6	-41.6	
176/09:27:01	80 54.4	006 08.4	0428	179.2	045	170	33044	31932	1.8	-0.9	-16.4	-40.9	
176/09:28:01	80 47.5	006 08.8	0426	179.2	044	170	33055	31936	1.8	-0.9	-15.9	-43.4	
176/09:29:01	80 40.1	006 08.7	0426	179.0	044	170	33060	31929	1.9	-0.6	-15.7	-42.1	
176/09:30:01	80 33.2	006 08.7	0425	179.0	045	170	33044	31903	2.0	-0.4	-16.6	-43.0	
176/09:31:01	80 26.3	006 08.7	0424	178.8	044	168	33052	31930	1.9	-0.7	-17.5	-42.7	
176/09:32:01	80 19.1	006 08.7	0424	178.9	043	169	33049	31902	1.8	-0.5	-16.4	-41.1	
176/09:33:01	80 12.1	006 08.7	0425	178.9	042	167	33049	31907	2.0	-0.8	-16.0	-41.3	
176/09:34:01	80 05.0	006 09.0	0425	178.9	039	167	33044	31923	2.1	-0.7	-14.2	-42.9	
176/09:35:01	79 57.9	006 08.8	0426	178.9	038	168	33049	31964	2.0	-0.4	-14.6	-41.7	
176/09:35:11	79 56.7	006 09.0	0426	178.9	041	167	33043	31985	2.0	-0.6	-14.5	-41.5	INS - 09 33 30 / 80 08.4N 06 08.9E.
176/09:35:27	79 55.0	006 08.9	0426	178.9	040	164	33044	31961	2.1	-0.8	-15.0	-41.2	LORAN C - 80 08.5N 06 09.9E AT 09 33 39.
176/09:36:01	79 51.8	006 09.0	0428	179.0	037	165	33059	31972	2.0	-0.9	-14.5	-39.9	
176/09:37:01	79 43.7	006 08.8	0429	178.5	046	163	33060	31967	1.7	-0.7	-13.6	-40.7	
176/09:37:37	79 39.5	006 09.0	0430	178.5	044	164	33053	31943	1.8	-0.7	-13.1	-40.1	09 31 00 LAT 80 26.3 LON 80 20.2 TIP OF THE EDDIE.
176/09:38:01	79 36.7	006 09.0	0430	178.4	046	163	33054	31959	1.8	-0.6	-13.2	-42.0	
176/09:38:05	79 36.1	006 08.7	0430	178.4	045	163	33056	31956	1.9	-0.5	-13.3	-41.7	CORRECTION LAT 80 26.3 TO 80 20.2.
176/09:38:39	79 32.0	006 08.7	0430	178.1	045	160	33051	31958	1.8	-0.8	-13.3	-41.5	INS AND LORAN C ARE READING 2/10 NAUTICAL MILE DIFFERENCE IN THEIR POSITION.
176/09:39:01	79 29.4	006 08.9	0430	178.3	045	161	33050	31935	1.9	-0.9	-13.0	-39.6	
176/09:40:01	79 22.4	006 08.9	0429	178.5	043	164	33043	31939	1.8	-0.8	-13.1	-40.3	
176/09:41:01	79 15.1	006 08.8	0430	178.0	043	158	33049	31942	2.1	-0.7	-13.3	-39.9	
176/09:42:01	79 08.2	006 09.0	0429	178.4	041	164	33034	31939	1.9	-1.4	-13.8	-42.0	
176/09:43:01	79 01.1	006 09.3	0430	178.3	042	171	33047	31932	1.9	-0.6	-15.0	-39.9	
176/09:44:01	78 53.8	006 09.5	0431	179.6	041	174	33055	31930	1.7	-1.0	-17.7	-41.6	
176/09:45:01	78 46.6	006 09.4	0429	178.6	042	165	33044	31922	1.8	-0.8	-12.5	-42.3	
176/09:45:33	78 42.9	006 09.6	0428	179.0	041	169	33036	31920	2.5	-8.2	-13.3	-42.8	!!! END OF RUN 7 TIME 09.45.32 LAT 7842.9 N LON 00609.6 E FL 330
176/09:46:01	78 39.6	006 11.8	0427	164.0	043	168	33057	31908	1.9	-8.2	-12.5	-41.1	
176/09:47:01	78 32.8	006 24.8	0431	157.9	037	166	33047	31942	1.8	-1.0	-16.6	-41.3	
176/09:48:01	78 26.4	006 38.8	0432	158.0	041	165	33048	31914	1.9	-0.4	-7.2	-40.8	
176/09:49:01	78 19.7	006 52.6	0433	158.3	039	167	33052	31927	1.9	-0.4	-18.1	-40.0	
176/09:50:01	78 12.9	007 06.4	0435	158.4	038	169	33040	31923	2.1	-0.7	-23.7	-40.4	
176/09:51:01	78 06.6	007 19.6	0435	158.6	037	169	33056	31931	1.7	-0.7	-12.5	-40.3	
176/09:52:01	77 59.6	007 32.6	0436	159.1	037	171	33047	31936	1.7	-0.6	-21.3	-41.4	
176/09:53:01	77 52.9	007 45.4	0436	159.4	041	171	33050	31945	1.7	-0.7	-23.3	-40.0	
176/09:54:01	77 46.3	007 58.1	0438	159.5	037	172	33043	31954	1.7	-0.4	-22.8	-41.5	
176/09:55:01	77 39.5	008 10.5	0439	160.0	036	175	33049	31917	1.7	-0.5	-17.4	-40.7	
176/09:55:21	77 37.3	008 15.0	0440	160.1	038	174	33055	31934	1.6	-0.9	-16.4	-39.3	10 03 20 PATTI, 10 04 30 RUSS.
176/09:56:01	77 32.7	008 23.3	0440	160.1	038	172	33051	31934	1.6	-1.1	-16.2	-41.5	
176/09:57:01	77 25.8	008 35.3	0441	160.2	041	172	33052	31921	1.7	-0.5	-6.4	-40.9	
176/09:58:01	77 19.1	008 46.9	0440	160.4	040	172	33050	31928	1.6	-0.5	-6.6	-40.7	
176/09:59:01	77 12.2	008 58.6	0436	160.5	039	171	33042	31950	1.9	-1.0	-6.1	-41.9	
176/10:00:01	77 05.3	009 10.2	0432	160.8	043	172	33037	31966	1.7	-0.5	-5.5	-41.8	
176/10:00:13	77 04.0	009 12.3	0431	160.7	044	171	33048	31966	1.7	-0.6	-6.1	-40.5	09 57 50 - INS 77 20.
176/10:00:15	77 03.9	009 12.8	0431	160.7	043	172	33044	31983	1.6	-0.7	-6.2	-41.3	9 176 10.00.13 ADDAS TAPES SWITCHED, EOT
176/10:00:29	77 02.1	009 15.4	0430	160.9	045	171	33041	31949	1.9	-0.6	-5.8	-40.3	INS 77 20N 08 44.8E.
176/10:00:49	76 59.9	009 18.8	0429	161.0	045	172	33045	31975	1.7	-0.7	-0.1	-41.3	LORAN C - 77 19.3N 08 39.6E AT 09 57 50.
176/10:01:01	76 58.8	009 20.7	0428	161.1	043	174	33047	31968	1.8	-0.5	-2.5	-41.4	DISTANCE BETWEEN IS 1.5385 NAUTICAL MILES.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 9 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
176/10:01:25	76 55.9	009 25.2	0427	161.2	043	174	33051	31978	1.8	-0.6	-5.4	-42.0	INS READING AS OF 09 57 50 - 77 20N 03 44.6E.
176/10:02:01	76 51.9	009 31.9	0426	161.1	046	172	33048	31953	1.8	-0.7	-3.4	-41.7	
176/10:03:01	76 45.4	009 42.3	0425	161.2	045	172	33055	31977	1.8	-0.6	-1.6	-41.7	
176/10:04:01	76 38.9	009 52.7	0427	161.6	045	172	33041	31999	1.6	-0.5	-0.7	-41.1	
176/10:04:51	76 33.2	010 01.3	0427	161.7	043	172	33041	31973	1.9	0.5	-9.1	-42.5	CAN SEE SEA SURFACE THRU A BREAK IN THE CLOUDS.
176/10:05:01	76 31.9	010 03.2	0427	161.9	045	173	33060	32020	1.7	-0.5	-9.0	-40.9	
176/10:05:03	76 31.9	010 03.3	0427	162.0	045	173	33056	31997	1.7	-0.4	-8.9	-42.7	MEDIUM SWELL , WHITE CAPS, WIND SPEED 25 KNOTS.
176/10:06:01	76 25.3	010 13.1	0428	162.1	045	174	33057	32013	1.7	0.0	-9.3	-43.0	
176/10:07:01	76 18.6	010 22.7	0430	162.5	046	175	33054	32030	1.6	-0.7	-9.8	-41.8	
176/10:08:01	76 11.6	010 32.7	0428	162.4	048	175	33045	32028	1.8	-0.7	-10.0	-43.1	
176/10:09:01	76 05.2	010 42.2	0426	162.6	047	174	33043	32017	1.7	-0.7	-9.8	-44.3	
176/10:10:01	75 58.6	010 51.7	0424	162.5	048	173	33041	31999	1.7	-0.6	-10.0	-42.5	
176/10:11:01	75 51.8	011 01.2	0422	162.6	047	171	33051	32034	1.7	-0.7	-9.4	-42.5	
176/10:12:01	75 45.1	011 10.0	0421	162.7	048	172	33049	32040	2.0	-0.9	-9.8	-44.4	
176/10:13:01	75 38.7	011 18.9	0420	162.8	045	173	33038	32030	2.0	-0.6	-11.7	-43.4	
176/10:14:01	75 31.9	011 27.9	0421	162.9	046	170	33060	32073	1.7	-0.7	-12.3	-44.6	
176/10:15:01	75 25.3	011 36.2	0422	163.1	047	171	33054	32043	1.8	-0.9	-12.2	-44.0	
176/10:16:01	75 18.6	011 44.6	0422	163.2	050	170	33043	32056	1.8	-0.8	-9.4	-43.8	
176/10:17:01	75 11.8	011 53.1	0422	163.3	047	170	33035	32032	1.8	-0.7	-8.7	-44.6	
176/10:18:01	75 05.3	012 01.5	0422	163.4	048	172	33049	32086	1.8	-0.8	-9.9	-43.0	
176/10:19:01	74 58.6	012 09.5	0422	163.4	045	173	33041	32061	1.8	-0.7	-9.5	-44.4	
176/10:20:01	74 51.7	012 17.6	0423	163.5	042	171	33042	32041	1.6	-0.6	-5.2	-45.4	
176/10:21:01	74 45.1	012 25.4	0423	164.0	044	168	33055	32033	1.6	0.8	-6.6	-42.4	
176/10:22:01	74 38.4	012 33.2	0424	163.9	044	169	33054	32100	1.7	-1.3	-7.4	-43.1	
176/10:23:01	74 31.5	012 40.7	0425	163.7	044	170	33052	32111	1.7	-0.6	-7.9	-44.0	
176/10:24:01	74 25.0	012 48.6	0426	163.6	044	168	33053	32084	1.7	-0.9	-7.2	-45.0	
176/10:25:01	74 18.2	012 56.1	0427	163.4	045	167	33052	32090	1.6	-0.6	-2.1	-45.6	
176/10:26:01	74 11.3	013 04.0	0427	163.9	046	169	33059	32107	1.5	-0.5	-0.7	-45.9	
176/10:27:01	74 04.6	013 11.5	0427	164.0	050	170	33045	32070	1.6	-0.5	-0.6	-46.3	
176/10:28:01	73 57.8	013 18.5	0423	164.2	046	170	33042	32103	1.4	-0.8	-3.1	-45.3	
176/10:29:01	73 51.0	013 25.7	0421	164.5	046	172	33048	32113	1.6	-0.9	-8.0	-44.0	
176/10:30:01	73 44.3	013 32.8	0421	164.8	047	175	33061	32114	1.6	-0.5	1.7	-45.3	
176/10:31:01	73 37.6	013 39.5	0421	164.8	046	173	33056	32142	1.6	-0.9	-2.5	-45.0	
176/10:32:01	73 30.8	013 46.8	0420	165.2	046	174	33051	32135	1.4	-1.0	1.8	-45.2	
176/10:33:01	73 24.1	013 53.1	0419	165.0	046	174	33038	32149	1.6	-0.7	3.5	-45.4	
176/10:34:01	73 17.6	013 59.8	0418	165.3	048	175	33048	32150	1.6	-0.7	1.6	-44.0	
176/10:35:01	73 10.9	013 57.3	0428	213.2	050	168	31173	30173	-4.3	0.4	3.0	-47.9	
176/10:36:01	73 05.6	013 45.7	0303	167.0	044	158	32776	30813	-18.5	-84.8	-22.0	-45.2	
176/10:37:01	73 01.2	014 00.9	0395	136.4	057	170	29207	28303	2.0	0.3	-5.4	-47.7	
176/10:38:01	72 56.3	014 17.5	0406	150.6	053	168	30376	29470	2.4	9.1	2.6	-49.1	
176/10:39:01	72 50.2	014 26.0	0406	164.6	048	174	31879	30950	2.8	0.1	-6.7	-48.5	
176/10:40:01	72 43.5	014 32.5	0418	164.3	043	164	32825	31912	2.9	-0.4	4.3	-46.0	
176/10:41:01	72 36.7	014 38.7	0422	164.8	048	166	32932	32048	1.5	-0.7	-0.6	-46.5	
176/10:42:01	72 30.1	014 44.9	0423	164.9	046	166	32919	32020	1.6	-0.7	4.7	-45.1	
176/10:43:01	72 23.2	014 51.0	0423	165.1	045	167	32929	32021	1.5	-0.7	3.4	-46.3	
176/10:44:01	72 16.3	014 57.2	0424	165.2	045	166	32930	32033	1.5	-0.7	4.9	-45.8	
176/10:45:01	72 09.6	015 03.0	0423	165.4	046	166	32925	32040	1.5	-1.0	3.9	-47.7	
176/10:46:01	72 02.9	015 08.6	0422	165.4	046	167	32916	32043	1.6	-0.4	5.0	-46.6	
176/10:47:01	71 55.0	015 14.5	0420	165.0	046	162	32914	32057	1.7	-0.7	3.7	-45.3	
176/10:48:01	71 49.3	015 20.3	0418	165.2	045	164	32929	32062	1.7	-0.5	4.8	-46.9	
176/10:49:01	71 42.7	015 25.7	0419	165.3	042	164	32924	32041	1.7	-0.8	5.1	-45.7	
176/10:50:01	71 35.7	015 31.3	0420	165.3	040	164	32930	32059	1.7	-0.5	4.7	-46.8	
176/10:51:01	71 29.1	015 36.9	0419	165.8	042	167	32927	32075	1.7	-0.6	4.5	-46.7	
176/10:52:01	71 22.4	015 41.8	0420	170.3	042	170	32921	32070	1.5	4.2	-0.1	-45.0	
176/10:53:01	71 15.4	015 45.7	0420	171.6	041	170	32913	32062	1.8	-0.3	4.9	-44.1	
176/10:54:01	71 08.6	015 48.2	0419	175.7	043	171	32914	32062	1.7	0.0	-6.5	-46.5	
176/10:55:01	71 01.8	015 49.3	0419	177.8	044	173	32917	32101	1.5	-1.2	-1.8	-45.8	
176/10:56:01	70 54.5	015 50.0	0422	178.1	041	175	32923	32080	1.5	-0.3	1.9	-45.4	
176/10:57:01	70 47.7	015 50.5	0424	178.4	045	180	32926	32078	1.5	-1.0	4.6	-45.4	
176/10:58:01	70 40.5	015 51.3	0425	178.8	043	181	32919	32074	1.6	-1.4	-9.7	-45.2	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 9 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
176/10:59:01	70 33.4	015 51.9	0426	178.2	041	184	32931	32078	1.5	-2.4	-9.7	-45.6	
176/11:00:01	70 26.4	015 52.9	0427	178.1	040	187	32924	32092	1.6	-0.9	-4.8	-44.9	
176/11:00:29	70 23.1	015 53.3	0428	178.4	039	191	32921	32074	1.6	-1.0	-0.5	-43.8	10 59 54 INS - 70 27.0N 15 52.7E.
176/11:00:45	70 21.3	015 53.6	0428	178.3	040	187	32917	32071	1.5	-0.9	2.9	-45.7	10 59 54 LORAN C 70 28.5N 15 52.9E.
176/11:01:01	70 19.3	015 53.8	0428	178.3	038	189	32922	32084	1.6	-0.8	0.0	-44.1	
176/11:02:01	70 12.1	015 55.0	0429	178.2	036	188	32925	32101	1.4	-1.0	0.0	-45.1	
176/11:02:45	70 07.1	015 55.4	0431	178.2	032	192	32926	32093	1.5	-0.8	-3.1	-45.8	DISTANCE BETWEEN BOTH - 1.5 NAUTICAL MILES.
176/11:03:01	70 05.0	015 55.9	0432	178.3	032	196	32919	32135	1.6	-0.9	0.8	-44.7	
176/11:04:01	69 58.0	015 57.2	0434	177.8	031	199	32920	32092	1.7	-0.6	-2.6	-44.5	
176/11:05:01	69 50.6	015 58.4	0438	178.7	033	202	32921	32085	1.5	0.5	-5.2	-45.5	
176/11:06:01	69 43.5	015 59.3	0439	178.8	031	203	32932	32117	1.5	-0.7	-4.1	-45.8	
176/11:07:01	69 36.1	015 59.9	0440	180.5	035	207	32933	32080	1.3	-1.0	-4.3	-45.9	
176/11:07:39	69 31.5	016 00.5	0440	180.6	038	208	32932	32116	1.4	-1.0	-5.4	-45.8	NADIR CAMERA ON.
176/11:08:01	69 28.7	016 00.7	0439	180.8	036	211	32930	32103	1.5	-0.5	-2.9	-44.9	
176/11:08:35	69 24.5	016 01.1	0439	180.4	035	215	32911	32109	1.5	-0.7	-5.9	-45.4	### START OF RUN 8 TIME 11.08.34 LAT 6926.5 N LON 01601.2 E FL 329
176/11:09:01	69 21.4	016 01.3	0438	180.6	037	214	32919	32098	1.6	-2.7	-4.1	-47.1	
176/11:09:49	69 15.6	016 02.1	0437	180.0	038	211	32928	32414	1.4	-0.6	-5.6	-45.5	FIRST REFLECTOR.
176/11:10:01	69 14.2	016 02.5	0437	179.9	037	213	32924	31949	1.5	-1.2	-5.8	-44.5	
176/11:10:19	69 12.1	016 02.6	0436	180.0	038	217	32925	31783	1.4	-1.0	-6.0	-46.5	SECOND REFLECTOR.
176/11:10:51	69 08.1	016 03.3	0436	179.9	040	218	32929	32012	1.5	-0.8	-5.7	-46.1	THIRD REFLECTOR.
176/11:11:01	69 06.8	016 03.4	0436	180.0	041	218	32925	32082	1.6	-0.7	-5.4	-47.2	
176/11:11:51	69 01.1	016 04.6	0435	180.0	043	213	32940	32099	1.3	-0.7	-5.3	-46.6	!!! END OF RUN TIME 11.11.50 LAT 6901.1 N LON 01604.6 E FL 329
176/11:12:01	68 59.8	016 04.5	0435	179.8	042	211	32925	32093	1.7	-0.4	-5.3	-47.6	
176/11:12:05	68 59.3	016 04.5	0434	179.9	045	212	32909	32116	1.5	-1.0	-5.2	-48.4	VOID ABOVE END OF RUN - FORGND MESSAGE CAME UP.
176/11:12:07	68 59.1	016 04.8	0433	179.6	045	210	32911	32106	1.4	-2.7	-5.2	-47.9	!!! END OF RUN 8 TIME 11.12.03 LAT 6859.1 N LON 01604.8 E FL 329
176/11:13:01	68 52.9	016 06.0	0424	175.7	059	218	30968	30150	-3.1	-20.0	-4.6	-50.7	
176/11:13:07	68 51.9	016 06.4	0430	171.7	061	220	30588	29809	-2.5	-21.4	-4.7	-51.8	11 09 48 ACCORDING TO RADAR 3 THE TIME FOR REFLECTOR ONE.
176/11:13:25	68 50.2	016 08.6	0441	158.0	066	222	29448	28697	-3.1	-20.1	-2.4	-49.7	CORRECTION THAT TIME SHOULD READ 11 09 44.
176/11:14:01	68 46.4	016 15.5	0431	156.7	058	223	26611	25238	-3.1	2.2	-0.2	-43.7	
176/11:15:01	68 40.3	016 25.0	0409	156.6	044	217	22276	21030	-3.2	-1.1	-0.3	-33.0	
176/11:16:01	68 34.6	016 33.5	0386	155.5	027	215	18189	17778	-3.3	0.0	3.2	-25.0	
176/11:17:01	68 29.3	016 41.5	0371	147.0	021	216	14270	13899	-3.5	0.2	5.2	-17.7	
176/11:18:01	68 23.9	016 45.1	0334	211.0	025	226	10552	10281	0.6	17.6	-1.3	-8.6	
176/11:19:01	68 19.9	016 37.5	0267	214.9	019	212	9270	8877	-0.4	-2.5	-0.5	-7.2	
176/11:20:01	68 16.2	016 39.0	0276	101.5	002	359	6701	5265	0.7	-35.6	-1.3	-2.2	
176/11:21:01	68 19.2	016 44.4	0247	001.3	002	250	5370	4033	1.8	-3.8	7.4	-0.2	
176/11:22:01	68 23.1	016 44.2	0232	351.8	000	179	5084	4980	5.8	-0.2	8.2	-3.3	
176/11:23:01	68 26.4	016 42.4	0175	288.5	005	224	4903	4777	1.3	-28.5	8.3	-1.9	
176/11:24:01	68 24.7	016 36.2	0178	221.2	005	325	4104	3982	5.9	17.8	8.4	-0.7	
176/11:25:01	68 23.0	016 28.9	0204	239.2	002	359	4126	3999	4.1	-0.7	9.1	-0.1	
176/11:26:01	68 21.2	016 21.3	0184	254.2	005	350	4119	3875	6.1	28.9	9.1	1.6	
176/11:27:01	68 23.0	016 20.2	0197	074.4	003	314	3186	3094	2.0	-8.1	9.5	1.3	
176/11:28:01	68 24.1	016 27.7	0174	061.4	002	044	2534	2437	0.3	5.1	9.7	5.4	
176/11:29:01	68 25.1	016 35.2	0172	076.3	002	359	1533	1447	0.2	1.5	10.1	6.4	
176/11:30:01	68 25.8	016 42.3	0147	049.7	014	359	742	677	1.4	-11.8	10.7	8.1	

3.7 Sixth Data Flight—Day 178—Evenes RT

Aside from the annoying ADDAS dropouts which have now become commonplace, all instruments were operational. The data system dropouts have not as yet resulted in any significant loss of data.

Plan 'A' was flown from west to east, with the western edge of the mosaic image right along the Greenwich meridian, i.e. the flight track was along a line displaced 5 nm east of that meridian. It had been our prior custom to approach the MIZEX area along a straight line which becomes the first leg of the mosaic, and to start that straight-line approach at about 77° 35 'N. Because of the most interesting circumstances elaborated upon below, we extended the first four legs southward at least 120 Km beyond the MIZEX ice edge, but at the expense of coverage in the northeastern part of the MIZEX box on legs 5 & 6. As it happens, this was no real sacrifice, since the sea ice was apparently at the melt point in that area.

While there were some radiometrically interesting features to the west (see below), this was definitely the day for ice edge observations! The MIZEX ice edge was quite compact and following its recent east/west sinusoidal undulations in tracks 5 & 6. A distinct change in orientation of the ice edge occurred in tracks 3 & 4, now running from southwest to northeast at a 45 degree slant across our tracks, still compact, and still undulating sinusoidally. In tracks 1 & 2, the ice edge was quite diffuse, and nearly merging with the following feature.

By far the most exciting feature was what gave the appearance of an explosion on the north/south ice edge along Greenland which projected some large ice floes (ca. 18 Km in extent) to the east at a rate of at least 35 Km in two days, since this floe pattern was further west in our prior flight two days earlier. There were two floes of that size which seemed to leave a trail of less compact ice behind them. There were about nine floes half of that size leaving similar trails. The shape of this event (including the less compact ice) is best described in terms of a running dog's head, with long ears flying overhead. The outline of the throat and chin went east and slightly south from 79° 08 'N, 0°E with a well-defined, undulating edge for a distance of about 45 Km (center of swath 3). The lower jaw was ca. triangularly shaped with a maximum thickness of 8 Km. The mouth was open about 10 Km and the juncture of the upper & lower jaws was about 12 Km to the west (western edge of swath three). The upper roof of the mouth extended due east from that (at a latitude of 79° 19 'N) to the nose some 36 Km to the east (eastern edge of swath 4). The nose was in fact one of the two largest floes described earlier. From there on, the outline of the dog's head becomes a bit diffuse, but the eyes and ears are all in swath three, extending northwards to within 18 Km of the compact MIZEX ice edge. A solitary long ice streamer 18 Km in extent was observed running parallel to the MIZEX edge (slanting at 45 degrees across the swath) at about 18 Km to the south; this appeared to be part of the 'dog' pattern. Some distinguishable multiyear ice signatures were observed in the western part of the microwave mosaic, again in complete accord with the concurrent SMMR image. Comparing with SMMR images in the area on earlier occasions, the multiyear signature observed is believed to be associated with ice just below the freeze point, since the SMMR multiyear fraction was significantly less than before.

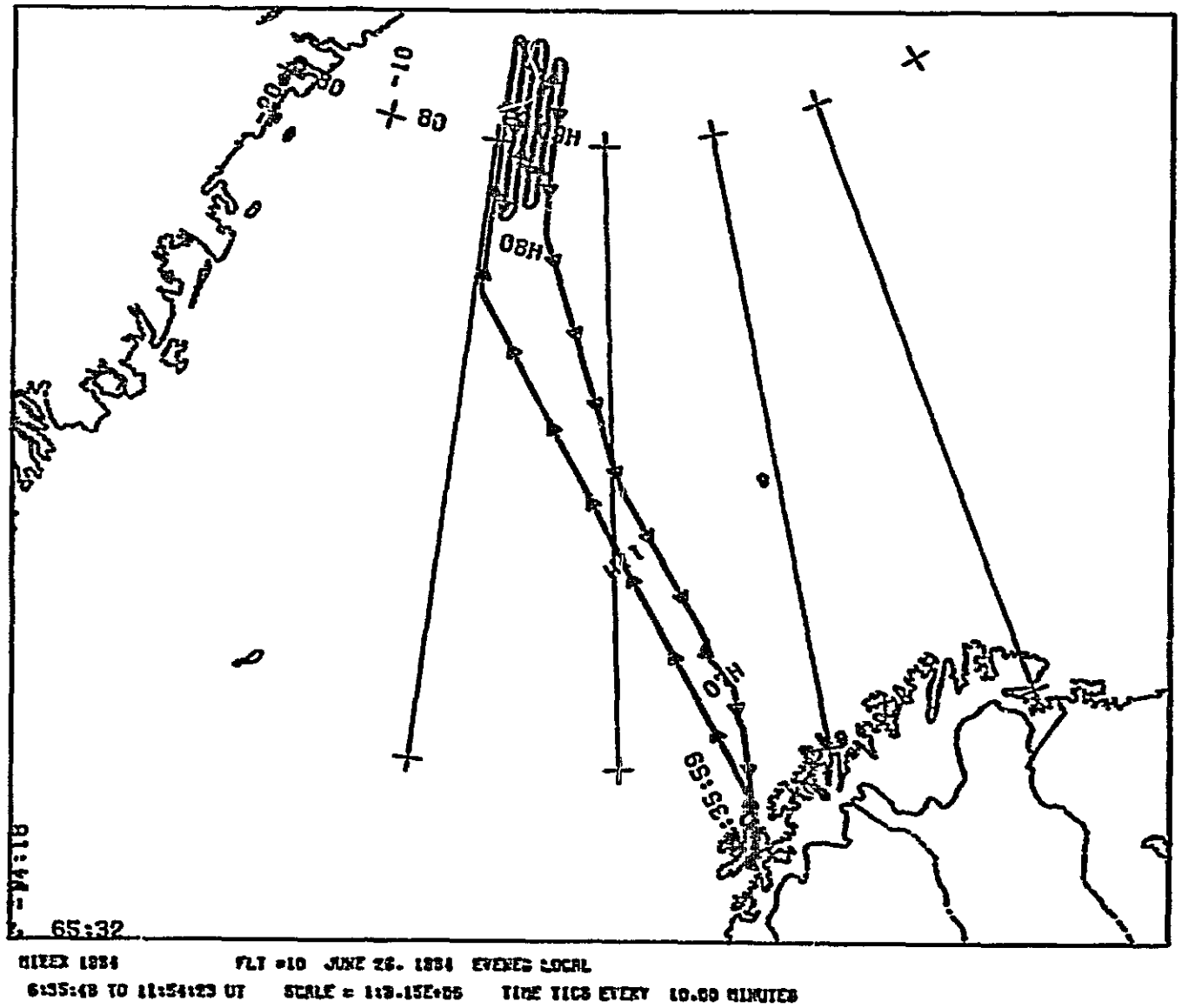


Figure 18. Flight tracks: Evenes RT 6/26

Figure 19. Mosaic pattern: 6/26

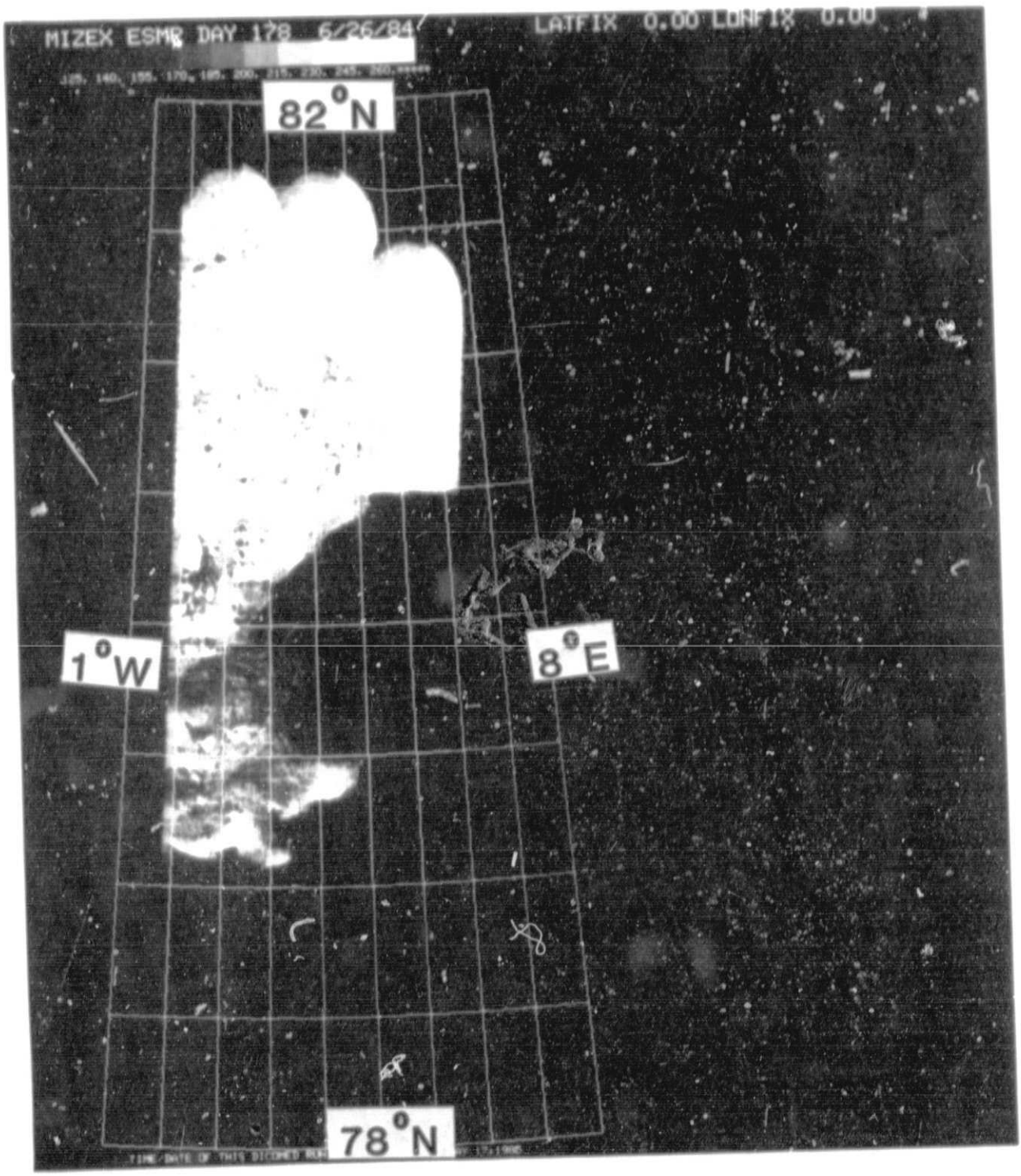


Figure 20. ESMR mosaic: 6/26

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 19 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
178/06:18:20	00 00.0	000 00.0	0000	000.0	000	000	259	73	-0.8	-1.7	39.3	26.9	
178/06:19:00	68 29.3	016 41.0	0000	359.1	122	359	268	73	-0.8	-1.7	35.8	2[illegible]	
178/06:20:00	68 29.3	016 41.0	0000	359.1	121	359	264	73	-0.8	-1.7	31.0	27.1	
178/06:21:00	68 29.3	016 41.0	0000	359.1	122	359	266	74	-0.8	-1.7	27.1	26.3	
178/06:22:00	68 29.3	016 41.0	0000	359.1	122	359	263	73	-0.8	-1.7	23.5	28.2	
178/06:23:00	68 29.3	016 41.0	0000	359.1	122	359	263	73	-0.8	-1.7	20.4	25.9	
178/06:24:00	68 29.3	016 41.0	0000	359.1	122	359	264	74	-0.8	-1.7	20.2	26.4	
178/06:25:00	68 29.3	016 41.0	0000	359.1	122	359	262	74	-0.7	-1.7	20.4	24.6	
178/06:26:00	68 29.3	016 41.0	0010	344.9	112	345	263	74	-1.0	-1.6	20.6	23.8	
178/06:27:00	68 29.3	016 40.8	0008	298.9	113	301	265	74	-0.3	-0.1	20.6	20.7	
178/06:28:00	68 29.4	016 40.7	0014	357.5	107	357	267	74	-0.9	-0.6	20.6	17.2	
178/06:29:00	68 29.8	016 40.7	0020	358.3	101	359	259	75	-0.4	-0.4	20.8	15.4	
178/06:30:00	68 30.0	016 40.5	0004	257.1	118	260	267	72	-0.4	-1.3	20.7	16.6	
178/06:31:00	68 28.7	016 40.7	0175	178.1	006	046	562	75	15.2	-0.5	20.7	14.5	
178/06:32:00	68 26.3	016 36.3	0235	252.9	009	095	2071	1873	6.9	7.2	20.1	10.8	
178/06:32:22	68 25.9	016 32.3	0254	258.3	007	128	2630	2433	8.9	1.6	19.7	8.6	TAKE OFF TIME 06 30 46
178/06:32:26	68 25.9	016 31.5	0255	259.0	004	136	2773	2583	9.4	1.5	19.9	10.4	JULIAN DAY 178
178/06:32:30	68 25.8	016 30.7	0256	259.6	001	170	2932	2750	10.0	0.4	19.7	8.8	JUNE 26, 1984
178/06:32:32	68 25.9	016 30.4	0256	259.3	006	167	3021	2835	10.0	0.1	-29.2	5.5	FLIGHT 10
178/06:32:36	68 25.8	016 29.6	0257	259.8	004	181	3201	3014	10.3	1.0	9.9	7.2	EVENTS/EVENTS.
178/06:32:50	68 25.5	016 26.7	0257	259.8	004	299	3827	3672	10.1	-0.8	14.6	7.0	W/P 1 68-20.1 16-03.1E
178/06:33:00	68 25.4	016 25.0	0258	259.4	007	176	4276	4120	9.3	-0.1	15.8	5.6	
178/06:33:02	68 25.4	016 24.8	0258	259.3	003	181	4353	4160	9.1	-0.2	17.9	4.0	W/P 2 69-17.3 16-00.1E
178/06:33:10	68 25.4	016 23.1	0265	259.3	010	173	4622	3979	7.4	-0.2	16.2	3.6	W/P 3 73-33.8 10-0
178/06:33:28	68 25.1	016 19.3	0281	256.1	013	153	5116	4832	6.0	-3.3	17.8	1.8	W/P 3 73-33.0 10-05.7E
178/06:33:38	68 24.8	016 17.6	0290	254.3	014	257	5365	5193	6.1	-1.6	9.8	1.2	W/P 4 77-35.0 0-23.5E
178/06:34:00	68 24.6	016 12.4	0311	253.4	016	146	5957	4777	5.8	-0.2	17.1	0.2	
178/06:34:02	68 24.6	016 12.1	0312	253.4	017	142	6027	4704	5.8	-0.1	16.8	-0.3	W/P 5 79-35.0 0-28.6E
178/06:34:18	68 24.1	016 08.2	0322	253.0	016	143	6583	6147	7.3	-0.5	14.9	-0.5	W/P 6 81-35.0 0-35.2E
178/06:34:32	68 23.9	016 05.3	0325	253.2	015	139	7209	6973	6.9	-0.8	9.3	-4.0	W/P 7 81-34.9 1-43.5E
178/06:34:44	68 23.6	016 02.1	0326	253.0	013	148	7818	7575	8.0	-0.6	9.4	-3.7	W/P 8 79-34.9 1-23.9E
178/06:34:56	68 23.3	015 59.3	0321	253.0	014	192	8534	8286	7.7	-0.3	8.9	-4.5	W/P 1' 79-34.7 2-19.2E
178/06:35:00	68 23.2	015 58.5	0321	252.6	015	180	8718	8472	7.2	-12.8	9.3	-3.4	
178/06:35:08	68 23.0	015 56.7	0320	244.6	018	169	9059	8825	7.7	-33.1	15.1	-6.7	W/P 2' 81-34.6 1-43.5E
178/06:35:20	68 22.3	015 54.3	0317	218.5	018	160	9465	9219	5.1	-19.4	10.6	-6.0	W/P 3' 81-34.1 3-59.9E
178/06:35:30	68 21.8	015 52.6	0321	217.7	013	183	9754	9530	8.0	28.1	8.2	-5.9	W/P 4' 79-34.3 3-14.5E
178/06:35:42	68 21.0	015 51.0	0326	240.5	006	159	10178	9946	6.4	34.3	9.3	-6.7	W/P 5' 79-33.7 4-09.6E
178/06:35:52	68 20.6	015 48.5	0335	263.8	008	162	10476	10249	5.8	33.2	8.5	-6.9	W/P 6' 81-33.4 5-07.9E
178/06:36:00	68 20.7	015 46.6	0342	279.6	006	135	10700	10468	6.6	34.0	8.3	-6.1	
178/06:36:12	68 21.2	015 43.6	0347	307.6	007	151	11166	10909	6.6	34.1	15.1	-7.5	W/P 7' 81-32.5 6-15.6E
178/06:36:22	68 21.8	015 41.7	0351	329.2	012	145	11486	11193	4.6	30.8	12.5	-9.7	W/P 0" 79-33.0 5-04.6E
178/06:36:32	68 22.9	015 40.3	0360	337.3	018	164	11705	10603	6.3	-1.9	9.4	-9.8	W/P 1" 78-33.0 5-04.6E
178/06:36:46	68 24.0	015 38.8	0360	336.0	014	180	12303	11678	8.2	14.3	28.6	-9.9	W/P 2" 74-34.2 10-26.1E
178/06:37:00	68 25.3	015 38.0	0359	356.4	017	163	12950	10814	5.7	29.5	1.0	-12.4	W/P 3" 71-11.1 15-52.0E IP
178/06:37:14	68 26.6	015 38.2	0360	018.9	014	160	13513	11872	4.2	28.7	6.9	-14.4	W/P 4" 69-17.3 16-00.1E
178/06:37:28	68 28.0	015 40.1	0362	042.4	021	169	13932	12990	4.7	28.0	12.7	-15.4	W/P 5" 69-11.1 16-00.5E
178/06:37:40	68 28.8	015 42.4	0365	057.2	019	174	14280	13322	6.6	11.1	-5.2	-16.8	W/P 9 68-29.5 16-40.7E EKEV
178/06:37:54	68 29.5	015 45.7	0366	061.4	015	180	14841	12261	4.6	0.6	12.0	-16.1	W/P 6" 68-47.5 16-39.3 HARSA
178/06:38:00	68 29.9	015 47.1	0370	061.9	014	177	14948	12392	2.9	0.4	14.4	-16.2	
178/06:38:10	68 30.4	015 49.3	0380	058.0	015	185	15023	13158	2.4	-14.9	14.4	-18.5	W/P 7" 68-35.9 16-40.9 FS.
178/06:38:14	68 30.8	015 50.7	0387	056.0	017	190	15036	13798	2.0	-12.7	16.5	-17.1	15,000FT.
178/06:38:32	68 32.0	015 54.8	0394	039.6	013	199	15014	13573	2.4	-21.3	8.7	-17.7	W/P 8" 68-27.5 16-41.2E EVN
178/06:38:50	68 33.6	015 57.4	0394	022.2	015	188	14996	13501	1.9	-15.6	9.0	-18.0	06 38 30 NADIR 3 CAMERA ON.
178/06:39:00	68 34.7	015 58.2	0395	015.3	015	199	14971	13431	1.9	-12.7	9.4	-17.5	
178/06:39:04	68 35.0	015 58.5	0395	012.2	017	194	14962	13422	2.1	-11.5	9.4	-17.8	W/P 1/3 68-22.1 15-56.7E RTV.
178/06:40:00	68 41.0	015 59.6	0386	002.3	015	162	14950	14656	2.4	0.0	8.1	-15.8	*** START OF RUN 1 TIME 06.39.59 LAT 6841.0 N LON 01559.6 E FL 149
178/06:41:00	68 47.6	015 59.9	0380	359.5	018	170	14946	14670	2.6	-0.4	6.0	-15.4	
178/06:42:00	68 53.7	015 59.5	0378	000.2	017	174	14945	14673	2.8	0.1	7.9	-17.4	
178/06:43:00	69 00.0	015 59.8	0376	359.4	018	192	14965	14689	2.5	-0.6	7.6	-16.6	
178/06:43:14	69 01.4	015 59.5	0376	359.3	018	192	14963	14690	2.7	-0.7	2.2	-14.7	06 43 0

ORIGINAL PAGE IS
OF POOR QUALITY

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 10 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
178/06:43:22	69 02.5	015 59.6	0376	359.4	019	187	14962	14689	2.6	-0.4	7.2	-15.2	06 43 00 RADAR 5 CONTACTED.
178/06:44:00	69 06.3	015 59.6	0376	359.7	015	188	14963	14687	2.7	-0.1	7.8	-15.5	
178/06:44:22	69 08.6	015 59.8	0376	000.1	016	183	14957	14605	2.7	-1.0	17.5	-16.4	FIRST REFLECTOR.
178/06:44:58	69 12.3	015 59.8	0375	359.9	016	188	14952	14531	2.8	-0.6	16.0	-15.8	SECOND REFLECTOR.
178/06:45:00	69 12.5	015 59.6	0375	360.0	017	185	14952	14312	2.8	-0.8	24.?	-16.5	
178/06:45:36	69 16.3	015 59.5	0375	359.8	018	185	14955	14782	2.7	-0.7	9.7	-16.0	THIRD REFLECTOR.
178/06:45:46	69 17.5	015 59.6	0375	359.6	017	187	14951	14696	2.9	-0.3	8.1	-15.6	REFLECTORS MARKED AGAINST INS.
178/06:46:00	69 18.8	015 59.9	0375	359.8	018	187	14961	14713	2.8	-0.6	7.9	-14.?	
178/06:47:00	69 25.1	015 59.6	0377	000.2	020	178	14989	14742	3.8	0.8	7.0	-16.8	
178/06:47:02	69 25.3	015 59.8	0378	000.5	019	174	15007	14765	4.4	-2.0	7.3	-17.0	!!! END OF RUN 1 TIME 06.47.03 LAT 6925.4 N LON 01559.6 E FL 150
178/06:47:16	69 26.7	015 59.3	0378	345.0	019	187	15460	15223	6.7	-27.6	7.2	-15.3	CAMERA OFF AT THE MARK.
178/06:48:00	69 30.7	015 52.7	0389	337.4	027	166	16851	16581	5.3	9.3	7.1	-19.1	
178/06:49:00	69 36.9	015 47.1	0406	340.5	033	166	18555	18274	5.4	-3.0	6.9	-24.2	
178/06:50:00	69 43.4	015 40.1	0419	337.0	037	166	20160	19887	4.5	-0.9	6.1	-27.9	
178/06:51:00	69 50.0	015 32.5	0435	336.0	046	172	21614	21303	5.0	-0.8	6.9	-29.8	
178/06:51:08	69 50.9	015 31.1	0437	336.1	048	171	21795	21483	4.3	-1.0	6.7	-29.6	SURFACE IS CLOUD FREE AT HE GO TOWARD THE MIZEX BOX.
178/06:51:20	69 52.3	015 29.6	0443	335.9	055	169	21905	21579	3.0	-1.1	6.4	-29.9	CORRECTION: AS.
178/06:52:00	69 56.7	015 23.9	0455	335.9	057	171	22785	22487	5.3	-1.1	6.4	-31.9	
178/06:53:00	70 03.9	015 15.5	0470	335.0	066	174	23902	23533	4.3	-0.9	5.9	-34.4	
178/06:53:28	70 07.1	015 11.5	0475	334.8	070	173	24497	24153	4.4	-0.9	5.5	-35.1	LOW LEVEL STRATOCUMULUS, .
178/06:53:44	70 09.1	015 09.1	0478	334.3	071	174	24812	24470	3.8	-1.0	5.2	-35.6	80 14N 1 57.CE POLAR STERN.
178/06:53:54	70 10.5	015 07.5	0480	334.2	073	176	24989	24663	4.1	-0.6	5.1	-37.2	80 42N 3 05E POLAR QUEEN.
178/06:54:00	70 11.1	015 06.8	0481	334.2	073	176	25100	24757	4.2	-0.5	4.8	-36.8	
178/06:54:04	70 11.6	015 06.2	0482	334.1	075	176	25179	24841	4.4	-0.2	5.0	-35.6	RV - 80 36N 7 33E.
178/06:54:16	70 13.2	015 04.5	0484	334.0	075	177	25431	25104	3.7	-0.8	4.9	-36.8	HM-79 55N 7 15E.
178/06:55:00	70 18.6	014 57.3	0496	334.2	080	173	26093	25723	4.4	-0.9	4.6	-38.1	
178/06:55:04	70 19.2	014 57.0	0496	334.4	080	172	26160	25930	4.1	-0.7	4.6	-38.3	10/10 STRATOCUMULUS.
178/06:56:00	70 26.4	014 47.7	0507	334.4	085	171	27091	26718	4.3	-0.9	4.3	-40.0	
178/06:56:14	70 28.4	014 45.5	0508	333.8	084	172	27328	26971	4.2	-1.0	4.4	-40.4	80 - 80 20N 3 16E.
178/06:57:00	70 34.1	014 38.1	0511	334.3	082	171	28192	27829	4.2	-0.7	4.0	-41.6	
178/06:57:44	70 40.0	014 30.5	0515	334.8	080	167	28965	28581	3.2	-1.0	4.0	-43.3	GEORGIA TECH IS HAVING SOME PROBLEMS WITH THEIR EQUIPMENT.
178/06:58:00	70 42.0	014 27.8	0517	334.8	078	167	29214	28802	4.0	-0.3	3.6	-45.0	
178/06:59:00	70 49.9	014 17.5	0520	335.0	077	167	30128	29737	3.3	-0.8	4.0	-46.8	
178/06:59:28	70 53.6	014 12.8	0522	334.5	076	169	30523	30104	3.5	-0.7	? ?	-47.5	10/10 STRATOCUMULUS, 6/10 ALTISTRATUS.
178/07:00:00	70 57.9	014 07.0	0521	334.5	072	169	31050	30626	4.1	-0.7	3.6	-48.0	
178/07:00:22	71 00.8	014 03.6	0515	334.7	057	172	31684	31220	4.9	-0.5	0.2	-48.3	5/3 - 15
178/07:01:00	71 05.5	013 56.5	0510	334.6	051	175	32344	31847	2.7	-0.8	5.4	-49.3	
178/07:01:08	71 06.8	013 55.3	0511	335.1	051	166	32377	31922	2.9	-0.7	2.5	-46.6	H/P 5" 69-11.1 16 00.1E INSTEAD OF 16 00.5E.
178/07:02:00	71 13.6	013 46.2	0516	334.9	048	167	32797	32347	2.8	-0.9	-2.2	-46.6	
178/07:03:00	71 21.3	013 35.3	0518	334.3	049	171	32981	32500	2.4	-1.3	-3.7	-45.9	
178/07:03:08	71 22.5	013 33.5	0518	334.2	047	170	32998	32518	2.2	-0.1	-1.6	-46.6	AT 33,000FT.
178/07:04:00	71 29.1	013 24.0	0515	334.5	046	172	32982	32503	2.4	-0.8	-6.0	-47.0	
178/07:05:00	71 37.1	013 13.1	0512	334.0	047	169	32974	32500	2.4	-0.4	0.3	-45.3	
178/07:06:00	71 44.6	013 02.1	0509	334.0	045	170	32967	32494	2.5	0.3	-1.9	-47.2	
178/07:06:32	71 48.9	012 56.0	0508	334.0	044	172	32976	32503	2.6	-1.2	-1.9	-47.9	10/10 STRATOCUMULUS, 5/10 ALTOSTRATUS.
178/07:07:00	71 52.3	012 50.4	0508	334.1	045	168	32984	32506	2.5	-0.9	-1.8	-46.3	
178/07:08:00	72 00.0	012 39.5	0505	333.0	045	174	32993	32499	2.3	-0.7	-2.9	-48.0	
178/07:09:00	72 07.7	012 27.8	0505	333.1	044	172	32969	32444	2.6	-1.0	-3.2	-47.3	
178/07:10:00	72 15.2	012 15.9	0504	333.2	044	169	32973	32472	2.6	-0.7	-3.7	-46.8	
178/07:11:00	72 22.9	012 04.3	0504	333.0	044	169	32967	32470	2.6	-0.7	-2.4	-46.9	
178/07:12:00	72 30.4	011 52.6	0505	333.4	042	169	32989	32491	2.4	-1.0	-5.3	-45.8	
178/07:12:12	72 32.0	011 50.2	0505	333.1	042	169	32981	32462	2.7	-1.1	-4.0	-46.4	2 PRIME - 81 34.6 LON 2 51.7E.
178/07:13:00	72 38.0	011 40.2	0505	333.0	043	167	32965	32447	2.5	-0.3	-3.8	-46.2	
178/07:13:54	72 44.6	011 29.1	0505	332.9	040	166	32992	32488	2.5	-0.8	-11.7	-47.5	NO REAL TIME MODE - 07 05 GO GEORGIA TECH.
178/07:14:00	72 45.5	011 28.2	0505	332.9	040	168	32992	32465	2.4	-0.2	-13.7	-46.0	
178/07:15:00	72 53.0	011 15.9	0506	332.4	041	170	32980	32453	2.4	-0.6	-9.2	-47.2	
178/07:16:00	73 00.5	011 02.8	0505	332.3	038	171	32973	32445	2.5	-0.2	-9.5	-45.7	
178/07:17:00	73 08.2	010 50.2	0505	331.7	036	173	32962	32400	2.3	-1.0	-11.8	-45.8	
178/07:17:46	73 13.7	010 40.4	0505	331.8	036	174	32966	32429	2.3	-0.6	-10.7	-46.5	THICKNESS OF CLOUD LAYER IS INCREASING 10/10 STRATOCUMULUS.
178/07:17:54	73 14.9	010 38.2	0505	331.5	037	176	32970	32368	2.5	-1.1	-11.5	-46.5	5/ 010 CUMULUS AS HE PROCEED NORTH.

E-2-C

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 10 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
178/07:18:00	73 15.6	010 37.1	0504	331.4	035	178	32989	32418	2.3	-1.3	-12.7	-47.7	
178/07:18:18	73 17.9	010 33.3	0504	331.3	036	175	32977	32402	2.4	-0.2	-13.7	-48.0	3 STAGE INTO ASC.
178/07:19:00	73 23.0	010 23.8	0503	331.4	033	176	32985	32411	2.2	-0.5	-10.9	-46.6	
178/07:19:58	73 30.4	010 11.0	0503	331.2	034	176	32969	32368	2.2	-0.7	-16.8	-47.2	PRINT CHECK BETWEEN ADDAS AND MCC OKAY.
178/07:20:00	73 30.6	010 10.4	0503	331.2	034	176	32966	32418	2.2	-0.8	-15.8	-46.6	
178/07:21:00	73 38.0	009 58.0	0502	333.5	033	171	32955	32377	2.5	-1.2	-15.7	-46.8	
178/07:22:00	73 45.4	009 44.8	0501	332.0	035	170	32966	32369	2.5	-0.7	-14.9	-47.8	NORTH - HEIGHT OF CUMULUS IS INCREASING 10/10 STRATOCUMULUS.
178/07:22:04	73 46.2	009 43.7	0501	331.9	034	171	32977	32371	2.5	-0.4	-16.8	-46.1	8/10 CUMULUS.
178/07:23:00	73 53.1	009 31.2	0501	331.7	032	172	32992	32394	2.2	-0.6	-17.5	-45.5	
178/07:24:00	74 00.4	009 17.7	0500	331.5	031	171	32987	32374	2.1	0.1	-24.8	-48.5	
178/07:25:00	74 07.7	009 03.6	0499	331.2	031	172	32976	32348	2.4	-0.4	-12.3	-48.1	
178/07:26:00	74 15.1	008 49.7	0498	331.1	035	171	32957	32355	2.3	0.0	-11.8	-45.9	
178/07:27:00	74 22.4	008 35.6	0498	330.9	033	170	32979	32361	2.5	-0.5	-7.8	-48.1	
178/07:28:00	74 29.6	008 21.7	0499	330.6	033	172	32963	32313	2.4	-0.6	-6.4	-47.1	
178/07:29:00	74 37.0	008 06.4	0499	330.0	032	179	32981	32309	2.2	-0.6	-5.7	-49.9	
178/07:30:00	74 44.3	007 51.4	0500	329.7	031	173	32987	32287	2.2	1.1	-5.8	-48.2	
178/07:31:00	74 51.6	007 36.3	0500	330.0	031	176	32968	32269	2.3	-0.9	-18.6	-49.5	
178/07:31:28	74 55.1	007 29.3	0499	329.4	035	177	32947	32280	2.3	-1.7	-11.7	-48.3	LOW CELL IS TO THE EAST OF US.
178/07:31:38	74 56.4	007 26.7	0498	328.8	035	181	32974	32276	2.4	-0.6	-7.1	-47.2	LOW PRESSURE CENTER IS EAST OF US.
178/07:32:00	74 58.9	007 21.2	0498	328.6	034	184	32965	32271	2.4	-0.6	-14.3	-47.8	
178/07:32:37	75 06.1	007 05.5	0496	328.5	033	180	32960	32270	2.5	-0.7	-5.0	-46.5	
178/07:34:00	75 13.1	006 59.6	0494	328.8	033	175	32975	32259	2.3	-0.7	-5.3	-49.4	
178/07:35:00	75 20.4	006 33.6	0493	328.0	030	191	32970	32244	2.2	-0.6	-5.6	-49.0	
178/07:36:00	75 27.5	006 17.6	0491	327.4	029	188	32956	32252	2.5	-1.3	-5.4	-48.2	
178/07:37:00	75 34.5	006 00.9	0489	327.5	031	188	32976	32249	2.4	-0.5	-5.8	-48.8	
178/07:38:00	75 41.6	005 44.4	0488	327.4	031	181	32990	32297	2.5	-0.7	-5.7	-49.1	
178/07:39:43	00 00.0	000 00.0	0000	000.0	000	000	32990	32239	2.7	-0.5	-6.0	-47.5	
178/07:40:01	75 55.5	005 10.7	0488	326.4	034	187	32968	32217	2.5	-0.7	-5.9	-48.0	
178/07:40:09	75 56.6	005 08.0	0488	326.3	032	189	32980	32225	2.4	-1.1	-6.2	-48.1	ADDAS WENT DOWN ABOUT 07 38 35 AND BACK UP AT 07 39 50.
178/07:41:01	76 02.6	004 52.9	0488	325.7	035	193	32974	32191	2.4	-0.8	-6.2	-49.3	
178/07:42:01	76 09.5	004 35.5	0489	325.0	034	196	32979	32206	2.3	-0.4	-5.6	-48.4	
178/07:43:01	76 16.4	004 17.6	0490	324.8	035	193	32981	32177	2.3	-0.6	-5.8	-48.1	
178/07:44:01	76 23.3	003 59.1	0491	324.4	036	194	32983	32174	2.2	-0.9	-5.7	-48.2	
178/07:45:01	76 30.0	003 40.3	0491	324.1	035	191	32971	32168	2.4	-0.7	-5.5	-47.6	
178/07:46:01	76 36.9	003 21.7	0492	323.8	036	191	32975	32148	2.4	0.0	-5.5	-47.5	
178/07:47:01	76 43.9	003 02.8	0491	323.3	037	194	32936	32149	2.3	-0.8	-5.1	-46.0	
178/07:48:01	76 50.6	002 42.5	0490	323.0	037	197	32970	32147	2.4	-0.7	-4.7	-45.7	
178/07:48:29	76 54.0	002 32.7	0489	322.9	034	199	32932	32153	2.2	-0.6	-4.6	-46.3	MIZEX BOX - 10/10 STRATOCUMULUS - AS WE APPROACH THE BOX.
178/07:49:01	76 57.4	002 23.1	0489	323.0	035	196	32969	32120	2.5	-0.5	-4.7	-45.1	
178/07:50:01	77 04.2	002 02.2	0487	322.4	034	200	32976	32129	2.1	-1.2	-4.5	-46.2	
178/07:50:35	77 08.2	001 50.3	0487	321.9	035	199	32968	32112	2.6	-0.8	-4.7	-45.2	PROCEED NORTH THERE ARE SOME BREAKS IN THE STRATOCUMULUS.
178/07:51:01	77 10.8	001 42.3	0486	321.8	035	197	32961	32102	2.4	-0.6	-4.5	-45.2	
178/07:52:01	77 17.5	001 21.6	0486	321.0	040	200	32962	32101	2.3	-1.0	-4.8	-45.3	
178/07:52:29	77 20.5	001 11.0	0485	321.2	039	200	32979	32104	2.4	-0.2	-4.6	-44.5	NO ALTOSTRATUS NOW.
178/07:53:01	77 24.1	001 00.0	0484	320.9	040	201	32966	32096	2.3	-1.5	-4.5	-45.7	
178/07:54:00	77 30.7	000 38.7	0483	320.8	037	198	32974	32087	2.4	-0.7	-4.2	-42.6	
178/07:55:01	77 38.0	000 24.3	0494	353.7	034	197	32946	32060	2.6	8.4	-4.0	-45.1	
178/07:56:01	77 46.2	000 24.3	0493	000.1	033	197	32977	32103	2.4	-1.5	-3.9	-43.9	
178/07:57:01	77 54.3	000 25.1	0492	359.1	035	197	32969	32068	2.6	-0.7	-3.9	-44.2	BOTH CAMERAS WILL BE USED DURING RUNS - ON THE MIZEX BOX.
178/07:58:01	78 02.3	000 25.4	0492	358.5	037	200	32968	32100	2.5	-0.7	-3.9	-42.7	
178/07:58:51	78 09.3	000 25.4	0491	358.9	037	197	32973	32093	2.5	-0.7	-3.8	-44.2	SEEING ICE EDGE ON THE RADAR.
178/07:59:01	78 10.8	000 25.1	0491	358.9	039	196	32955	32080	2.8	-0.2	-3.9	-44.5	
178/08:00:01	78 18.8	000 25.4	0491	359.0	038	195	32976	32077	2.7	-0.5	-3.9	-44.2	
178/08:00:13	78 20.5	000 25.7	0491	359.1	035	193	32972	32083	2.4	-0.6	-2.7	-44.2	10/10 STRATOCUMULUS AS WE APPROACH THE MIZEX BOX.
178/08:01:01	78 26.8	000 26.3	0490	359.1	035	199	32978	32074	2.5	-0.9	-3.9	-42.7	
178/08:02:01	78 35.2	000 26.3	0490	359.1	036	196	32965	32079	2.7	-0.6	-4.0	-43.3	
178/08:03:01	78 43.2	000 26.6	0490	359.1	034	197	32976	32080	2.7	-0.8	-4.3	-44.3	
178/08:04:01	78 51.2	000 27.2	0490	359.4	032	196	32981	32048	2.4	-0.8	-4.0	-45.4	
178/08:05:01	78 59.5	000 27.5	0490	359.2	036	196	32962	32037	2.7	-0.2	-4.1	-43.4	
178/08:05:57	79 07.0	000 27.9	0489	359.2	031	201	32975	32048	2.4	-0.8	-4.3	-43.3	OVER EDGE OF ICE PACK.

YEAR 1984 AODAS FLIGHT LOG --- FLIGHT NO. 10 --- MIZEX

----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
178/08:06:01	79 07.6	000 27.7	0489	359.2	031	201	32968	32011	2.4	-1.0	-4.2	-43.7	ICE IS ON ESHR.
178/08:06:07	79 08.4	000 27.9	0489	359.0	034	202	32969	31966	2.7	-0.5	-4.4	-43.6	10/10 STRATOCUMULUS.
178/08:06:15	79 10.1	000 27.9	0489	359.0	033	204	32985	31987	2.2	-0.6	-4.5	-42.8	SEE THE OUTLINE OF THE FLOE THRU STRATOCUMULUS .
178/08:06:23	79 10.5	000 27.7	0489	358.9	032	203	32973	31971	2.4	-1.2	-4.6	-42.9	ABOUT 1,000FT THICK.
178/08:06:35	79 12.3	000 28.4	0489	358.8	033	204	32970	31994	2.6	-0.4	-4.6	-43.8	CORRECTION: STRATOCUMULUS.
178/08:06:53	79 14.5	000 28.5	0488	358.8	033	205	32968	31994	2.5	-0.9	-4.7	-42.9	NORTH SOUTH ICE EDGE IS WITHIN THE MIZEX BOX.
178/08:07:01	79 15.7	000 28.1	0488	358.7	031	203	32978	31970	2.5	-0.8	-4.7	-43.3	
178/08:08:01	79 24.0	000 28.6	0487	359.2	031	201	32965	32020	2.5	-0.5	-4.9	-41.4	
178/08:08:25	79 27.1	000 29.1	0487	359.3	032	198	32963	31954	2.6	-0.9	-5.1	-42.6	THREE LARGE FLOES DUE WEST OF US.
178/08:09:01	79 31.9	000 28.9	0486	358.9	034	197	32963	31978	2.8	-0.7	-5.3	-42.6	
178/08:09:27	79 35.4	000 28.7	0485	358.2	033	200	32993	32022	2.5	-0.2	-4.9	-42.2	HAVE STARTED RUN OVER NORTH SOUTH ICE EDGE AS WE WILL PROCEED TO THE EAST.
178/08:09:29	79 35.6	000 28.8	0485	358.2	033	200	32991	32030	2.5	-0.3	-5.1	-42.7	*** START OF RUN 2 TIME 08.09.28 LAT 7935.6 N LON 00028.8 E FL 329
178/08:09:41	79 37.1	000 28.8	0485	358.2	033	198	32931	32038	2.7	-0.7	-5.1	-42.8	THE ICE EDGE WILL BE PROCEEDING TO THE NORTH.
178/08:10:01	79 39.8	000 28.7	0485	358.9	034	197	32965	31958	2.8	-0.1	-5.4	-41.8	
178/08:10:59	79 47.8	000 29.1	0484	359.5	030	201	32990	31984	2.6	-0.8	-5.2	-43.2	10/10 STRATOCUMULUS ALONG THIS LEG.
178/08:11:01	79 48.2	000 29.1	0484	359.5	028	198	32990	31959	2.5	-0.7	-5.1	-43.4	
178/08:11:31	79 51.9	000 29.9	0483	359.3	031	198	32980	31986	2.5	-1.0	-5.0	-41.8	FLOE STRUCTURE IS EVIDENT ON THE ESHR.
178/08:12:01	79 56.0	000 29.8	0482	358.8	029	203	32997	31934	2.5	-0.3	-4.8	-42.1	
178/08:12:05	79 56.6	000 29.8	0482	359.0	029	203	32992	32027	2.5	-0.2	-5.1	-43.1	SEE THRU STRATOCUMULUS WE ARE IN ICE ZONE 90 PERCENT ICE CONCENTRATION.
178/08:13:01	80 04.0	000 29.9	0482	359.2	031	200	32969	31944	2.7	-0.6	-4.7	-43.5	
178/08:14:00	80 11.8	000 30.6	0482	359.4	032	198	32975	31994	2.6	-0.6	-4.2	-44.5	
178/08:14:28	80 15.5	000 30.7	0482	359.3	031	199	32966	31999	2.8	-1.0	-4.7	-43.5	ALOT OF LITTLE MULTIYEAR FLOES.
178/08:15:00	80 19.9	000 30.9	0483	358.9	032	200	32987	31969	2.7	-0.4	-4.8	-40.4	
178/08:16:00	80 27.9	000 31.1	0485	359.0	032	196	32982	31947	2.5	-0.5	-4.9	-42.1	
178/08:17:00	80 36.1	000 31.8	0488	359.5	032	193	32971	31937	2.5	-0.9	-4.4	-41.7	PROCEED NORTH - SOME BREAKS IN STRATOCUMULUS CLOUDS.
178/08:18:00	80 44.2	000 32.0	0489	359.5	032	196	32978	32081	2.6	-0.8	-4.5	-42.8	
178/08:19:00	80 52.0	000 32.5	0491	359.2	032	198	32987	31907	2.4	-0.4	-4.7	-42.6	
178/08:20:00	81 00.4	000 32.9	0492	359.4	030	197	32976	31924	2.4	-0.6	-5.6	-41.5	
178/08:20:10	81 01.6	000 33.4	0492	359.4	031	196	32984	31977	2.4	-0.6	-5.6	-41.6	BREAK IN MARE DATA 8 17 TO 8 19 FOR DISK CHANGE - AIR.
178/08:21:00	81 08.4	000 33.8	0493	359.4	029	203	32966	31876	2.3	-0.6	-5.9	-42.5	
178/08:21:04	81 09.0	000 33.4	0493	359.3	028	203	32970	31915	2.4	-0.8	-6.2	-42.2	SEE THRU BREAK IN CLOUDS - FORWARD OF A/C MEDIUM AND SMALL FLOES.
178/08:21:16	81 10.5	000 33.5	0493	359.3	027	202	32976	31902	2.2	-0.9	-6.1	-43.3	SOME LARGE POLYNYAS, ICE CONCENTRATION 85 PERCENT.
178/08:21:50	81 15.4	000 34.2	0493	359.1	028	202	32973	31907	2.3	-1.1	-5.8	-41.1	TO THE WEST OF A/C MEDIUM AND LARGE FLOES, ICE CONCENTRATION 95 PERCENT.
178/08:22:00	81 16.6	000 34.0	0493	359.3	025	201	32975	31899	2.4	-1.0	-5.5	-41.6	
178/08:23:00	81 25.0	000 34.8	0493	359.7	025	199	32971	31867	2.2	-0.7	-5.9	-41.2	
178/08:23:18	81 27.4	000 35.0	0492	359.7	023	198	32987	31906	2.2	-0.7	-5.3	-41.7	CLOUD COVER 10/10 STRATOCUMULUS.
178/08:24:00	81 33.0	000 35.4	0492	359.5	023	201	32982	31922	2.2	-0.7	-5.4	-42.5	
178/08:24:14	81 34.9	000 35.5	0491	359.6	020	202	32974	31861	2.4	-0.4	-5.7	-41.7	!!! END OF RUN 2 TIME 08.24.15 LAT 8134.9 N LON 00035.5 E FL 329
178/08:25:00	81 39.6	000 54.8	0451	093.0	040	183	33089	32106	3.7	44.4	-6.8	-42.1	
178/08:25:52	81 36.1	001 28.8	0433	151.1	035	203	32889	31821	2.9	17.2	-6.1	-41.5	CAMERA
178/08:25:58	81 35.5	001 32.0	0433	156.2	033	201	32913	31866	2.7	15.9	-5.9	-41.8	CAMERA ON 08 25 50.
178/08:26:00	81 35.3	001 32.3	0432	157.7	035	202	32918	31865	2.7	15.5	-6.1	-40.7	
178/08:26:08	81 34.5	001 34.7	0432	162.5	034	205	32935	31891	2.6	14.3	-5.9	-40.0	MEDIUM MULTIYEAR FLOES.
178/08:26:16	81 33.5	001 37.0	0432	168.1	036	202	32940	31869	2.7	12.4	-6.0	-42.6	ICE CONCENTRATION 85 PERCENT.
178/08:26:24	81 32.6	001 38.7	0432	171.7	035	203	32937	31863	2.4	10.1	-6.0	-41.0	NADIR 3 CAMERA ONLY.
178/08:27:00	81 28.4	001 40.7	0434	180.8	038	196	32956	31868	2.3	1.2	-5.9	-42.5	
178/08:27:06	81 27.8	001 40.7	0434	181.6	035	200	32964	31889	2.3	1.0	-5.3	-42.5	08 26 55 NADIR 3 CAMERA OFF.
178/08:27:30	81 24.6	001 40.7	0434	182.6	036	197	32971	31912	2.3	-0.3	-5.2	-43.0	10/10 STRATOCUMULUS AL.
178/08:27:32	81 24.5	001 40.7	0434	182.6	036	197	32979	31892	2.3	-0.4	-5.4	-42.7	*** START OF RUN 3 TIME 08.27.33 LAT 8124.1 N LON 00140.7 E FL 329
178/08:27:46	81 22.7	001 40.0	0434	182.9	036	196	32984	32047	2.0	-0.2	-5.6	-43.5	10/10 STRATOCUMULUS ALONG THIS LEG.
178/08:28:00	81 21.1	001 39.6	0435	182.9	038	194	32971	31915	2.3	-1.1	-5.5	-43.4	
178/08:28:10	81 19.8	001 39.4	0435	182.8	039	194	32973	31909	2.2	-1.2	-5.7	-42.2	OVER ENTIRE MIZEX BOX THERE ARE NO UPPER LEVEL CLOUDS.
178/08:29:00	81 13.7	001 38.7	0435	182.8	040	197	32983	31895	2.2	-0.4	-5.8	-41.4	
178/08:29:54	81 07.3	001 37.4	0436	182.7	039	194	32968	31904	2.0	-1.0	-5.8	-41.8	FLOES VISIBLE OUTLINE - THRU CLOUDS.
178/08:30:00	81 06.7	001 37.3	0436	182.7	039	194	32967	31887	1.9	-0.7	-5.9	-42.5	
178/08:30:02	81 06.4	001 37.3	0436	182.7	039	194	32966	31892	2.1	-0.8	-5.7	-41.8	SEVERAL LARGE MULTIYEAR FLOES.
178/08:31:00	80 59.5	001 36.0	0435	183.1	036	201	32974	31927	2.2	-0.5	-5.3	-41.3	
178/08:32:00	80 52.1	001 34.5	0435	183.0	040	193	32985	31912	2.1	-1.3	-4.8	-42.1	
178/08:33:00	80 44.9	001 33.2	0435	182.7	040	194	32970	31915	2.2	-0.6	-3.9	-40.4	
178/08:33:04	80 44.5	001 33.2	0435	182.7	040	194	32973	31910	2.2	-1.0	-3.9	-40.4	10/10 STRATOCUMULUS.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 10 --- MIZEK

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	+WND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
178/08:33:54	80 38.6	001 31.8	0435	182.3	040	191	32965	31930	2.1	-0.9	-3.9	-42.7	3 STAGE IN ASC - MANUAL.
178/08:34:00	80 37.9	001 31.8	0435	182.3	039	192	32970	31907	2.2	-0.8	-4.0	-42.7	
178/08:35:00	80 30.4	001 30.8	0436	182.6	037	193	32932	31942	2.0	-0.6	-4.1	-43.7	
178/08:36:00	80 23.2	001 29.8	0436	182.0	036	193	32968	31928	2.1	-0.5	-4.5	-41.4	
178/08:37:18	80 00.0	000 00.0	0440	182.4	033	000	32981	31947	2.1	-0.6	-4.3	-42.0	
178/08:38:00	80 08.7	001 27.5	0438	182.2	036	192	32967	31923	2.0	-0.3	-4.7	-41.0	
178/08:39:00	80 01.5	001 26.1	0439	182.5	038	193	32976	31950	2.1	-0.9	-5.4	-42.6	
178/08:40:00	79 54.0	001 25.4	0439	182.4	044	190	32970	31901	2.0	-1.1	-5.6	-44.6	VHF DOES NOT WORK FOR MISSIONS DIRECTORS STATION.
178/08:40:22	79 51.4	001 25.1	0439	182.3	043	193	32969	31927	1.9	-1.3	-5.3	-44.6	
178/08:40:58	79 47.0	001 24.5	0440	182.4	041	193	32977	31923	1.8	-0.9	-5.4	-41.7	OVER SOME LARGE FLOES RIGHT NOW.
178/08:41:00	79 46.8	001 24.5	0440	182.5	040	194	32973	31918	1.9	-0.8	-5.5	-42.8	
178/08:41:08	79 45.9	001 24.3	0440	182.6	039	197	32971	31919	2.0	-0.7	-5.3	-45.0	10/10 STRATOCUMULUS.
178/08:42:00	79 39.5	001 23.7	0440	182.5	042	197	32977	31917	1.9	-0.7	-5.3	-43.8	
178/08:42:26	79 36.2	001 23.1	0440	182.7	046	195	32979	31921	1.9	-0.6	-5.2	-43.1	WE CAN CLEARLY SEE THE ICE EDGE THRU THE CLOUDS UNDER THE A/C.
178/08:43:00	79 32.0	001 22.5	0440	183.0	043	195	32980	31911	1.9	-1.1	-5.4	-44.3	
178/08:44:00	79 24.8	001 21.6	0439	182.6	045	195	32984	31927	1.8	-1.1	-4.9	-45.2	
178/08:45:00	79 17.7	001 20.6	0437	182.6	046	196	32984	31946	2.1	-0.9	-4.7	-44.4	
178/08:46:00	79 10.4	001 19.8	0435	182.7	045	195	32987	31948	1.8	-0.9	-4.5	-45.1	AT THE ICE EDGE.
178/08:46:18	79 08.2	001 19.6	0434	182.7	048	194	32983	31965	2.0	-0.7	-4.4	-44.2	BUT NOT YET ON ESHR.
178/08:46:50	79 04.6	001 19.2	0434	182.6	048	193	32978	31932	1.9	-0.9	-4.1	-43.2	ICE EDGE ON ESHR.
178/08:47:00	79 03.2	001 19.2	0434	182.6	047	195	32973	31955	1.9	-1.1	-4.1	-45.3	
178/08:47:26	79 00.1	001 18.8	0434	182.8	045	200	32969	32014	1.9	-0.4	-4.1	-44.4	10/10 STRATOCUMULUS AS WE APPROACH THE END OF THE RUN.
178/08:48:00	78 56.0	001 18.0	0434	182.9	045	197	32972	32047	2.0	-0.6	-3.0	-43.1	
178/08:48:52	78 49.8	001 17.6	0432	182.8	046	198	32986	32055	2.2	-2.7	-4.3	-42.2	!!! END OF RUN 3 TIME 03:49:51 LAT 7949.8 N LON 0317.6 E FL 329
178/08:49:00	78 48.8	101 17.5	0431	178.2	044	190	33011	32039	3.8	-28.5	-4.1	-42.7	
178/08:50:00	78 46.2	001 45.1	0487	056.8	038	200	33003	32103	-0.6	-24.9	-4.0	-44.7	
178/08:50:02	78 46.3	001 45.9	0490	054.5	040	199	32919	32022	0.2	-19.0	-3.9	-44.5	THRU BREAK IN CLOUDS SOME WHITE CLOUDS ON THE SURFACE.
178/08:51:00	78 52.6	002 09.7	0506	013.5	042	200	32922	32026	2.4	-15.9	-3.4	-45.2	
178/08:51:16	78 55.1	002 11.8	0506	006.4	044	197	32924	32037	2.2	-9.4	-3.2	-44.3	CAN SEE SEVERAL MEDIUM SIZE ICE ECHOES THRU THE CLOUDS AS WE APPROACH START OF.
178/08:51:20	78 55.4	002 17.3	0506	004.4	046	197	32925	32023	2.3	-8.1	-2.9	-44.7	RUN.
178/08:52:00	79 01.3	002 13.6	0506	359.4	043	193	32950	32053	2.2	-0.8	-3.8	-44.2	
178/08:52:02	79 01.4	002 13.4	0506	359.5	042	193	32953	32062	2.4	-0.5	-3.7	-45.5	### START OF RUN 4 TIME 03:52:01 LAT 7931.4 N LON 0313.4 E FL 329
178/08:52:30	79 05.4	002 13.9	0507	000.2	042	197	32973	32046	2.1	-0.2	-3.9	-44.3	ICE EDGE LEFT OF AIRCRAFT.
178/08:53:00	79 09.5	002 14.5	0509	000.7	039	197	32984	32515	2.0	-0.7	-4.1	-45.7	
178/08:54:00	79 17.9	002 16.2	0511	000.9	039	195	32950	31955	2.0	-0.7	-4.3	-46.7	
178/08:54:04	79 18.8	002 16.6	0511	001.0	038	196	32953	31970	2.1	-0.4	-4.6	-45.1	10/10 STRATOCUMULUS.
178/08:55:00	79 26.6	002 18.0	0512	000.8	042	197	32979	31960	2.0	-1.0	-4.8	-44.4	
178/08:56:00	79 34.9	002 19.9	0513	000.9	042	197	32986	31948	2.1	-0.4	-4.9	-44.9	
178/08:57:00	79 43.5	002 21.8	0513	001.0	039	199	32975	31965	1.9	-0.8	-5.1	-45.3	
178/08:57:24	79 47.1	002 23.0	0512	001.2	036	198	32976	31979	1.6	-0.8	-5.3	-44.9	MANY LARGE FLOES IN THIS AREA.
178/08:58:00	79 52.0	002 23.8	0511	001.2	037	195	32959	31946	2.0	-1.1	-5.1	-43.3	
178/08:59:00	80 00.6	002 26.1	0507	001.9	035	192	32966	31924	1.9	-1.3	-5.0	-43.8	
178/09:00:00	80 08.7	002 27.6	0503	001.2	033	195	32977	32019	2.1	-1.0	-5.1	-43.9	
178/09:00:52	80 16.2	002 29.6	0503	001.5	035	194	32971	31957	2.0	-1.0	-4.8	-44.8	SECOND ICE EDGE.
178/09:01:00	80 17.3	002 30.0	0503	001.2	033	199	32971	31951	2.1	-0.6	-4.8	-43.1	
178/09:01:02	80 17.6	002 30.4	0503	001.0	035	200	32973	31953	2.1	-0.7	-4.9	-43.0	SHARP EDGE GOING TO THE NORTH/EAST ON THE RADAR.
178/09:01:12	80 18.8	002 30.7	0503	001.0	034	201	32983	31958	1.9	-0.8	-4.7	-44.0	ON THE ESHR ALSO AT 09:01:05.
178/09:02:00	80 25.5	002 32.1	0503	001.4	034	199	32977	31964	2.0	-0.8	-4.3	-42.1	WE HAVE PASSED OVER LARGE ECHOE - HUGHAH.
178/09:02:38	80 30.8	002 33.5	0502	001.8	034	194	32959	31917	2.2	-1.1	-4.1	-42.2	10/10 STRATOCUMULUS.
178/09:02:44	80 31.4	002 33.8	0502	001.9	036	192	32966	31927	2.2	-1.2	-4.2	-42.1	NO OPENINGS IN THE CLOUDS.
178/09:03:00	80 33.8	002 34.3	0502	001.8	034	196	32972	31926	2.4	-0.8	-4.3	-42.5	
178/09:03:24	80 37.1	002 35.6	0502	001.7	033	194	32987	31949	2.0	-0.9	-4.1	-41.9	FLOE SIZE IS DECREASING.
178/09:04:00	80 42.3	002 36.9	0501	001.3	035	198	32975	31950	2.1	-0.9	-3.7	-42.4	
178/09:05:00	80 50.6	002 38.9	0501	001.6	036	193	32968	31946	2.2	-1.2	-4.4	-42.7	
178/09:05:54	80 58.1	002 41.1	0501	001.5	035	196	32973	31953	2.1	-0.9	-4.5	-41.1	THICKNESS OF STRATOCUMULUS IS INCREASING.
178/09:06:00	80 58.8	002 41.4	0501	001.7	035	196	32980	31950	2.2	-0.8	-4.4	-42.2	
178/09:07:00	81 07.1	002 43.9	0501	002.1	035	193	32976	31927	2.0	-1.5	-4.8	-41.5	
178/09:08:00	81 15.5	002 46.4	0500	001.4	029	201	32985	31907	1.8	-0.8	-5.1	-42.3	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 10 --- HIZEN

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
178/09:08:26	81 19.0	002 47.9	0499	001.9	026	198	32973	31913	2.0	-0.7	-5.5	-41.0	10/10 STRATOCUMULUS AS HE APPROACH THE END OF THIS RUN.
178/09:09:00	81 23.7	002 49.5	0498	002.0	029	197	32962	31890	2.0	-0.5	-5.8	-41.0	
178/09:10:00	81 32.1	002 52 3	0496	002.5	026	195	32971	31923	2.2	-1.5	-5.2	-41.7	
178/09:10:14	81 33.9	002 5[illegible].9	0496	002.2	028	194	32959	31892	2.1	-0.3	-5.8	-41.5	||| END OF RUN 4 TIME 09.10.15 LAT 8134.2 N LON 00253.0 E FL 329
178/09:11:00	81 38.9	003 [illegible]4	0460	084.6	048	181	33151	32168	2.9	44.1	-7.2	-41.2	
178/09:11:50	81 35.6	003 44.9	0431	[illegible]7.4	040	195	32864	31835	2.6	15.7	-5.8	-42.1	STRATOCUMULUS DECK GOES ALL THE WAY TO SVALBARD.
178/09:12:00	81 34.7	003 48.4	0429	160.[illegible]	039	196	32895	31856	2.5	15.4	-5.8	-42.8	
178/09:12:52	81 28.6	003 55.8	0428	180.8	040	194	32949	31911	2.1	3.2	-6.1	-41.2	10/10 STRATOCUMULUS AS HE START THE RUN.
178/09:13:00	81 27.5	003 55.5	0428	182.6	041	195	32948	31933	2.1	2.1	-6.1	-41.2	
178/09:13:14	81 26.0	003 54.8	0428	183.8	040	194	32956	31926	2.2	0.4	-6.0	-41.6	*** START OF RUN 5 TIME 09.13.15 LAT 8126.0 N LON 00354.8 E FL 329
178/09:14:00	81 20.5	003 52.7	0428	184.7	040	192	32970	31939	2.1	-0.7	-5.3	-41.9	
178/09:14:14	81 18.9	003 52.0	0429	184.7	038	194	32964	31933	2.1	-1.1	-5.5	-43.6	ALTOSTRATUS CLOUDS OVER SVALBARD.
178/09:15:15	00 00.0	000 00.[illegible]	0000	000.0	000	000	32589	31944	1.8	-0.8	-5.0	-43.2	
178/09:16:01	81 06.2	003 46.6	0431	184.9	042	197	32973	31938	1.9	-0.8	-4.4	-42.7	
178/09:17:01	80 58.9	003 43.6	0432	185.2	042	199	32981	31930	1.9	-1.1	-4.4	-42.2	
178/09:18:01	80 51.9	003 40.7	0431	184.7	044	194	32971	31916	2.0	-0.9	-3.9	-43.7	
178/09:19:01	80 44.9	003 38.0	0430	184.7	044	195	32966	31927	1.9	-1.0	-4.1	-42.9	
178/09:20:01	80 37.5	003 35.0	0428	184.8	046	196	32967	31956	1.9	-0.9	-4.5	-42.8	
178/09:21:01	80 30.6	003 32.8	0427	184.6	043	194	32980	31952	1.9	-1.2	-4.9	-42.9	
178/09:22:01	80 23.4	003 30.0	0426	184.5	043	193	32969	31958	2.1	-1.0	-4.8	-44.6	
178/09:22:17	80 21.7	003 29.2	0426	184.4	042	194	32958	31995	2.1	-1.2	-4.9	-42.5	FRACTURED ICE.
178/09:22:57	80 17.0	003 27.5	0426	184.2	044	193	32968	32055	2.0	-0.8	-4.6	-43.0	OVER FRACTURED ICE ZONE.
178/09:23:01	80 16.2	003 27.3	0426	184.2	044	192	32970	32071	2.0	-1.1	-4.9	-43.4	
178/09:23:49	80 10.8	003 25.8	0426	184.3	044	194	32972	32038	2.0	-0.9	-4.7	-44.2	POLAR QUEEN - 80 42.7N LON 3 7.5E.
178/09:24:01	80 09.4	003 25.0	0426	184.3	045	193	32971	32045	2.0	-1.0	-4.9	-43.2	
178/09:25:01	80 02.3	003 22.5	0427	184.6	044	196	32962	32028	2.0	-1.1	-5.0	-45.6	
178/09:26:01	79 55.2	003 20.4	0427	184.9	047	199	32990	32058	1.8	-1.3	-4.7	-44.2	
178/09:26:05	79 54.7	003 19.9	0427	184.9	047	199	32981	32047	1.8	-1.1	-4.5	-43.2	ICE EDGE 09 22 00 ON ESMR.
178/09:27:01	79 48.2	003 17.9	0427	184.7	048	198	32994	32050	1.8	-0.6	-4.7	-43.4	
178/09:28:36	00 00.0	000 00.0	0000	000.0	000	000	32969	31996	1.8	-1.0	-4.5	-44.2	
178/09:29:00	79 34.2	003 13.5	0427	184.9	051	199	32963	31991	1.8	-1.1	-4.5	-44.2	
178/09:30:00	79 27.2	003 11.4	0427	184.9	051	199	32968	31986	1.8	-1.0	-4.0	-45.5	ICE EDGE.
178/09:30:18	79 24.8	003 10.8	0426	184.9	050	200	32979	31995	1.7	-1.1	-3.9	-45.5	ICE EDGE TIME RECORDED FROM ESMR.
178/09:30:44	79 22.0	003 09.5	0426	184.5	048	199	32983	31992	1.7	-1.0	-4.0	-44.9	10/1 10 STRATOCUMULUS.
178/09:31:00	79 20.2	003 09.4	0425	184.6	047	198	32976	32010	1.8	-1.1	-4.0	-44.7	
178/09:31:24	79 17.1	003 08.7	0425	184.8	047	200	32966	32092	1.8	-0.9	-3.7	-44.9	09 31 13 OTHER EDGE OF ICE TONGUE.
178/09:32:00	79 12.9	003 07.3	0425	184.6	048	199	32972	32089	2.0	-1.0	-3.4	-45.3	
178/09:33:00	79 06.0	003 05.3	0424	184.1	048	195	32966	32074	2.0	-0.9	-3.3	-45.3	
178/09:33:14	79 04.3	003 05.0	0424	184.4	051	196	32976	32087	1.9	-1.3	-3.2	-45.1	||| END OF RUN 5 TIME 09.33.13 LAT 7904.3 N LON 00305.0 E FL 329
178/09:34:00	78 59.9	003 16.9	0424	107.0	030	187	33148	32339	2.9	-43.2	-4.9	-44.7	
178/09:35:00	79 03.9	003 52.1	0506	033.7	040	199	32997	32045	2.5	-23.2	-4.1	-46.5	
178/09:35:02	79 04.0	003 52.7	0506	031.8	040	199	32992	32025	2.4	-22.8	-4.1	-46.1	CLEARLY SEE THE SHAPE OF THE ICE EDDIE.
178/09:35:08	79 04.7	003 55.2	0507	027.3	041	200	32913	32028	2.1	-21.3	-3.9	-45.7	CAN EVEN SEE PLUMES ON THE END.
178/09:36:00	79 11.7	004 03.0	0507	002.5	040	198	32937	32075	2.1	-3.6	-3.8	-45.2	
178/09:36:20	79 14.5	004 03.5	0507	001.4	041	196	32951	32072	2.0	-1.0	-3.9	-43.9	*** START OF RUN 6 TIME 09.36.19 LAT 7914.5 N LON 00403.5 E FL 329
178/09:37:00	79 20.0	004 05.4	0508	002.2	044	193	32964	32093	2.2	0.2	-4.0	-45.2	
178/09:37:24	79 23.4	004 06.4	0508	002.2	038	202	32972	32099	1.9	-0.4	-4.1	-42.4	OVER EASTERN OF A LARGE EDDIE.
178/09:38:00	79 28.6	004 08.3	0507	002.9	038	199	32975	32092	2.0	-1.0	-4.2	-43.2	
178/09:38:46	79 34.9	004 10.[illegible]	0507	002.7	042	199	32965	32091	2.0	-0.9	-3.9	-44.1	PAST PLUME ON ESMR.
178/09:39:00	79 36.9	004 11.4	0507	002.8	041	197	32969	32081	1.9	-0.8	-3.9	-44.4	
178/09:40:00	79 45.4	004 15.0	0508	002.7	041	200	32969	32066	1.9	-0.8	-4.2	-44.1	
178/09:41:00	79 53.8	004 18.5	0509	002.7	045	199	32976	32091	2.0	-1.1	-3.9	-45.1	
178/09:41:16	79 56.1	004 19.4	0510	003.0	045	198	32967	32065	2.0	-1.0	-3.9	-44.8	SOME WHITE CAPS ON OCEAN SURFACE.
178/09:42:00	80 02.1	004 22.[illegible]	0510	003.1	038	198	32967	32075	1.7	-1.1	-3.9	-43.2	
178/09:43:00	80 10.5	004 25.7	0510	003.2	042	196	32977	32085	1.8	-1.0	-4.1	-44.6	
178/09:44:00	80 19.2	004 29.5	0510	003.1	044	199	32974	32044	1.8	-1.2	-4.4	-43.9	
178/09:44:48	80 25.6	004 32.6	0511	003.4	043	197	32975	32087	1.8	-1.2	-4.6	-43.5	ICE EDGE.
178/09:44:58	80 27.3	004 33.6	0511	003.3	046	197	32961	32041	2.0	-0.6	-4.4	-45.7	ICE EDGE TIME RECORDED FROM ESMR.
178/09:45:00	80 27.[illegible]	004 33.4	0511	003.4	046	197	32964	32048	2.1	-0.9	-4.6	-45.0	
178/09:45:56	80 3[illegible]	004 36.2	0512	003.0	045	200	32983	31992	1.9	-1.2	-4.3	-43.1	ICE COMPLETELY COVERS ICE EDGE - MAIN PACK 09 45 23.

YEAR 1984 ADDAS FLIGHT LOG —— FLIGHT NO. 10 —— MIZEX

TIME	LAT	LONG	GND SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
178/09:46:00	80 35.9	004 37.7	0512	003.1	046	197	32975	31956	1.9	-0.9	-4.3	-45.2	
178/09:47:00	80 44.6	004 41.8	0513	002.7	045	202	32974	31965	1.7	-1.0	-4.6	-43.5	
178/09:48:00	80 53.0	004 46.1	0513	003.5	044	196	32973	31966	2.0	-0.7	-4.2	-44.0	
178/09:49:00	81 01.4	004 50.5	0513	004.0	037	194	32963	31955	2.0	-1.0	-4.1	-42.9	
178/09:50:00	81 10.0	004 55.2	0510	003.7	035	193	32962	31951	2.0	-1.2	-3.2	-40.3	
178/09:50:48	81 16.6	004 58.8	0508	003.5	034	202	32964	31940	2.0	-0.7	-4.2	-42.0	!!! END OF RUN 6 TIME 09.50.49 LAT 8116.6 N LON 00458.8 E FL 329
178/09:51:00	81 18.3	005 00.2	0505	012.6	030	187	33073	32070	2.4	32.0	-5.0	-42.2	
178/09:51:06	81 19.0	005 01.6	0505	023.4	034	173	33063	32087	3.4	36.8	-5.0	-43.9	10/10 STRATOCUMULUS.
178/09:52:00	81 21.1	005 38.4	0438	140.7	046	196	32939	32010	0.5	23.2	-5.7	-42.6	
178/09:53:00	81 14.4	005 58.7	0425	176.2	043	197	32933	31943	2.0	8.2	-4.8	-44.1	
178/09:53:12	81 13.2	005 59.5	0425	180.4	044	196	32926	31948	2.0	5.3	-4.7	-41.1	MEDIUM TO SMALL FLOES, ICE CONCENTRATION APPROX. 90 PERCENT AT START OF RUN.
178/09:53:50	81 08.9	005 57.9	0424	185.8	045	195	32963	31957	1.9	0.7	-4.3	-43.1	*** START OF RUN 7 TIME 09.53.49 LAT 8108.9 N LON 00557.9 E FL 329
178/09:54:00	81 07.5	005 57.9	0423	186.1	047	193	32966	31959	1.6	-0.3	-4.1	-41.9	
178/09:55:00	81 00.8	005 55.0	0424	187.2	046	198	32956	31966	2.0	-0.7	-4.2	-41.9	
178/09:56:00	80 53.5	005 48.4	0425	186.6	045	196	32932	31931	1.8	-0.7	-4.6	-43.1	
178/09:57:00	80 46.5	005 43.9	0426	187.1	046	202	32983	31977	1.7	-0.8	-4.7	-42.6	
178/09:58:00	80 39.6	005 40.0	0427	187.1	050	199	32975	31981	1.8	-0.5	-4.7	-43.6	
178/09:59:00	80 32.3	005 35.7	0427	187.4	054	202	32967	31932	1.6	-0.7	-4.3	-43.1	
178/09:59:36	80 28.2	005 33.0	0426	187.4	050	203	32974	32026	1.8	-0.8	-3.9	-43.9	ICE EDGE ON ESMR.
178/10:00:00	80 25.3	005 31.6	0426	187.1	051	200	32970	32049	1.7	-0.9	-4.0	-44.1	
178/10:00:16	80 23.6	005 30.0	0426	187.0	050	199	32963	32051	1.9	-0.9	-4.4	-41.7	10/10 STRATOCUMULUS, CAN SEE THRU CLOUDS AND THERE ARE A FEW ROUTE CAPS.
178/10:01:00	80 18.4	005 27.4	0426	186.7	050	198	32988	32067	1.6	-1.1	-3.6	-45.0	
178/10:02:00	80 11.3	005 23.8	0427	186.6	050	197	32977	32069	2.0	-0.9	-3.4	-44.7	
178/10:03:00	80 04.2	005 19.7	0428	186.6	046	196	32971	32083	1.7	-1.1	-3.6	-44.5	
178/10:04:00	79 57.2	005 15.9	0428	186.5	051	197	32931	32054	1.6	-0.6	-3.5	-43.5	
178/10:05:00	79 50.0	005 12.1	0428	186.2	050	193	32951	32077	1.8	-1.1	-2.3	-44.2	
178/10:06:00	79 43.0	005 08.8	0428	185.8	049	193	32973	32110	1.5	-1.1	-3.2	-44.3	
178/10:07:00	79 36.0	005 05.4	0429	185.5	050	189	32984	32089	1.6	-1.3	-2.5	-46.7	
178/10:07:22	79 33.3	005 04.0	0429	185.6	052	191	32981	32085	1.6	-1.1	-3.0	-44.5	!!! END OF RUN 7 TIME 10.07.21 LAT 7933.3 N LON 00504.0 E FL 329
178/10:08:00	79 28.7	005 03.3	0430	180.4	051	194	32935	32094	1.6	-1.5	-2.9	-44.7	
178/10:08:18	79 26.4	005 03.4	0430	180.6	050	197	32983	32109	1.7	0.0	-3.1	-45.0	*** START OF RUN 8 TIME 10.08.19 LAT 7926.3 N LON 00503.6 E FL 329
178/10:09:00	79 2[illegible]	005 04.1	0429	181.4	053	194	32983	32085	1.6	-0.6	-3.2	-44.8	
178/10:10:00	79 [illegible].5	005 03.5	0426	181.6	051	194	32973	32122	1.6	-0.9	-2.8	-46.8	
178/10:11:00	79 07.5	005 03.9	0424	181.7	053	195	32966	32117	1.7	-0.9	-3.4	-43.1	
178/10:12:00	79 00.5	005 04.1	0423	181.5	052	194	32968	32097	1.8	-0.7	-3.7	-43.4	
178/10:13:00	78 53.4	005 04.0	0421	181.5	052	195	32974	32111	1.7	-0.7	-3.3	-45.9	
178/10:14:00	78 46.4	005 04.1	0420	181.5	053	193	32966	32131	1.7	-0.8	-3.8	-45.8	
178/10:15:00	78 39.6	005 04.0	0420	181.5	051	193	32972	32141	1.8	-0.8	-3.8	-43.9	
178/10:15:28	78 36.1	005 04.3	0420	181.7	053	195	32953	32130	[illegible]	[illegible]	-3.3	-44.6	!!! END OF RUN 8 TIME 10.15.29 LAT 7836.0 N LON 00504.1 E FL 329
178/10:16:00	78 32.6	005 06.0	0423	168.2	052	190	32978	32139	1.6	-6.9	-4.0	-46.6	
178/10:17:00	78 25.8	00[illegible] 17.3	0426	163.7	054	189	32966	32139	1.6	-1.7	-3.9	-46.9	
178/10:18:00	78 19.3	005 [illegible]9.1	0427	163.2	054	187	32976	32158	1.7	-0.6	-3.9	-47.2	
178/10:19:00	78 12.5	005 40.5	0427	163.6	053	187	32973	32155	1.7	-0.8	-3.7	-47.1	
178/10:20:00	78 05.7	005 52.0	0426	163.5	052	186	32972	32171	1.7	-1.5	-4.0	-47.9	
178/10:21:00	77 59.1	006 03.4	0427	163.9	052	186	32968	32153	1.7	-0.9	-4.0	-47.3	
178/10:22:00	77 52.4	006 14.3	0427	163.9	053	186	32976	32175	1.6	-1.4	-4.2	-46.5	
178/10:23:00	77 45.6	006 25.4	0427	164.0	051	186	32932	32188	1.6	-0.9	-4.3	-47.3	
178/10:24:00	77 39.0	006 35.6	0428	164.4	056	186	32933	32185	1.5	-0.9	-4.4	-47.5	
178/10:25:00	77 32.3	006 46.2	0429	164.3	056	185	32932	32173	1.6	-0.9	-4.7	-47.0	
178/10:26:00	77 25.3	006 56.5	0429	164.7	055	187	32964	32168	1.6	-1.3	-4.9	-47.4	
178/10:27:00	77 18.6	007 06.9	0428	164.4	053	182	32975	32186	1.4	-1.0	-5.1	-47.3	
178/10:28:00	77 11.8	007 16.4	0425	164.7	055	182	32979	32218	1.6	-1.1	-5.4	-48.5	
178/10:29:00	77 05.2	007 26.3	0423	164.7	053	184	32955	32213	1.8	-1.3	-5.9	-48.2	
178/10:30:00	76 58.6	007 35.6	0420	164.5	053	181	32939	32243	1.5	-0.9	-9.7	-47.9	
178/10:30:20	76 56.[illegible]	007 38.7	0420	164.6	055	180	32981	32261	1.6	-0.8	-10.3	-47.7	@ 178 10.30.20 ADDAS TAPES SWITCHED, EOT
178/10:31:00	76 52.0	007 44.8	0420	165.2	056	184	32975	32235	1.7	-1.3	-5.7	-47.7	
178/10:32:00	76 45.2	007 53.9	0418	165.5	057	185	32981	32236	1.6	-1.2	-6.0	-46.3	
178/10:33:00	76 38.6	008 02.5	0417	165.3	059	180	32973	32248	1.6	-1.2	-5.9	-47.5	
178/10:34:00	76 32.2	008 11.[illegible]	0416	165.2	057	182	32963	32254	1.7	-1.3	-8.2	-47.4	
178/10:35:00	76 25.3	008 20.0	0415	165.1	057	180	32970	32267	1.9	-0.7	-6.5	-48.5	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 10 --- MIZEX

-----TIME-----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
178/10:36:00	76 18.8	008 28.2	0415	165.4	054	181	32962	32270	1.8	-0.9	-10.4	-47.3	
178/10:37:00	76 12.3	008 36.6	0414	165.2	055	179	32961	32270	1.7	-1.1	-10.2	-47.2	
178/10:38:00	76 05.5	008 45.0	0413	165.4	057	177	32977	32282	1.7	-1.2	-13.8	-47.7	
178/10:38:40	76 01.2	008 50.0	0414	165.2	056	175	32969	32271	1.7	-1.1	-12.7	-47.5	
178/10:39:00	75 59.1	008 52.9	0414	165.4	055	177	32977	32284	1.7	-1.0	-13.3	-46.1	
178/10:40:00	75 52.5	009 00.5	0414	165.4	053	177	32976	32289	1.7	-0.9	-21.0	-46.6	
178/10:41:00	75 45.8	009 08.6	0415	165.7	051	179	32955	32292	1.7	-1.0	-14.0	-47.8	
178/10:42:00	75 39.1	009 16.4	0415	165.9	052	180	32937	32302	1.6	-1.0	-14.9	-47.6	
178/10:43:00	75 32.6	009 23.6	0415	165.8	057	178	32979	32311	1.6	-0.9	-10.2	-47.4	
178/10:44:00	75 25.9	009 31.6	0415	166.1	055	178	32973	32325	1.7	-1.1	-5.2	-47.9	
178/10:45:00	75 19.2	009 38.6	0415	165.9	055	176	32977	32359	1.7	-1.1	-7.0	-48.3	
178/10:46:00	75 12.5	009 45.7	0415	165.8	055	175	32964	32337	1.6	-1.1	-12.6	-46.6	
178/10:47:00	75 05.9	009 53.0	0414	166.2	055	177	32976	32364	1.6	-0.9	-11.3	-47.2	
178/10:48:00	74 59.3	009 59.9	0415	166.6	054	180	32960	32349	1.8	-1.2	-14.4	-47.3	
178/10:49:00	74 52.6	010 06.7	0415	166.4	053	177	32976	32354	1.6	-1.1	-12.3	-46.6	
178/10:50:00	74 45.9	010 13.8	0415	166.5	056	176	32970	32375	1.7	-1.0	-12.5	-45.1	
178/10:51:00	74 39.5	010 20.2	0413	166.7	057	177	32979	32411	1.6	-1.2	-15.6	-45.3	
178/10:52:00	74 32.8	010 28.6	0415	157.7	055	174	32967	32391	1.9	-3.7	-18.5	-46.5	
178/10:53:00	74 26.5	010 40.2	0416	154.8	059	169	32976	32395	1.6	-1.6	-17.0	-47.4	
178/10:54:00	74 20.5	010 51.8	0415	154.9	060	172	32979	32403	1.6	-0.8	-11.8	-47.7	
178/10:55:00	74 14.5	011 03.4	0415	155.3	059	173	32971	32440	1.7	-1.1	-11.4	-47.3	
178/10:56:00	74 08.2	011 15.4	0413	155.7	061	174	32964	32409	1.5	-0.9	-7.3	-48.4	
178/10:57:00	74 02.2	011 26.6	0410	156.1	064	176	32972	32440	1.8	-0.9	-7.1	-47.5	
178/10:58:00	73 56.3	011 37.5	0407	156.4	066	175	32970	32456	1.5	-1.2	-8.5	-47.4	
178/10:59:00	73 50.0	011 48.5	0403	156.8	070	176	32968	32450	1.6	-0.8	-4.3	-46.8	
178/11:00:00	73 44.2	011 59.2	0400	157.1	069	178	32969	32453	1.7	-0.8	-11.8	-44.6	
178/11:01:00	73 38.2	012 09.5	0398	157.0	071	175	32970	32467	1.7	-0.7	-3.7	-47.4	
178/11:02:00	73 32.2	012 20.0	0397	157.2	070	175	32964	32486	1.9	-0.5	-4.5	-48.0	
178/11:03:00	73 26.3	012 30.4	0397	156.4	064	170	32966	32490	1.7	-1.5	-7.3	-49.6	
178/11:04:00	73 20.4	012 40.1	0399	157.2	067	174	32965	32465	1.9	-0.6	-1.4	-48.2	
178/11:05:00	73 14.3	012 50.4	0399	157.2	068	173	32964	32500	1.8	-0.7	-8.1	-49.0	
178/11:06:00	73 08.4	013 00.0	0398	157.2	074	171	32976	32547	1.5	-1.0	0.3	-47.6	
178/11:07:00	73 02.5	013 09.5	0397	157.0	076	169	32969	32527	1.5	-1.1	0.4	-48.7	
178/11:08:00	72 56.5	013 19.5	0396	157.1	076	169	32966	32556	1.5	-0.7	0.6	-46.9	
178/11:09:00	72 50.6	013 28.8	0395	157.1	074	167	32961	32519	1.6	-0.8	-0.1	-47.7	
178/11:10:00	72 44.6	013 38.1	0394	157.6	073	170	32973	32537	1.6	-1.1	-2.6	-48.9	
178/11:11:00	72 38.6	013 47.7	0394	158.3	075	173	32981	32550	1.6	-1.1	-6.4	-48.1	
178/11:12:00	72 32.7	013 56.6	0394	158.4	082	171	32976	32533	1.5	-0.9	-5.0	-50.4	
178/11:13:00	72 26.8	014 05.4	0394	158.3	085	171	32968	32548	1.6	-0.7	2.1	-52.5	
178/11:14:00	72 20.6	014 14.6	0396	158.6	091	172	32750	32295	-0.1	-0.8	1.7	-52.3	
178/11:15:00	72 15.0	014 23.2	0374	159.9	107	175	31288	30911	-0.5	-0.3	1.9	-48.7	
178/11:16:00	72 09.4	014 31.3	0361	160.6	104	175	30997	30607	1.3	-1.0	2.5	-49.2	
178/11:17:00	72 03.9	014 39.1	0362	160.5	105	174	31010	30647	1.3	-1.2	2.6	-47.9	
178/11:18:00	71 58.2	014 45.2	0366	184.2	101	177	29645	29275	-6.5	31.8	2.6	-44.3	
178/11:19:00	71 52.4	014 35.3	0412	205.0	079	172	25379	25144	15.4	-3.4	3.2	-34.9	
178/11:20:00	71 48.0	014 39.3	0426	140.6	064	175	23084	22719	-4.7	10.6	2.3	-31.2	
178/11:21:00	71 42.4	014 47.8	0356	159.1	081	175	26984	26680	6.9	0.7	3.7	-38.0	
178/11:22:00	71 37.7	014 57.8	0354	145.3	099	172	29689	29406	3.7	1.5	4.0	-43.8	
178/11:23:00	71 33.0	015 09.4	0362	151.9	100	172	31009	30669	1.2	0.0	4.1	-47.9	
178/11:24:00	71 27.5	015 19.9	0393	152.3	103	169	30962	30581	0.9	-0.2	5.2	-48.8	
178/11:25:00	71 22.1	015 30.5	0387	152.7	103	169	30942	30586	0.9	-0.8	3.0	-47.0	
178/11:26:00	71 16.6	015 40.9	0378	153.0	101	166	30933	30596	1.1	1.6	4.4	-46.6	
178/11:27:00	71 11.1	015 49.1	0368	166.9	098	167	30950	30636	1.3	5.6	4.6	-48.0	
178/11:28:00	71 05.2	015 51.4	0362	174.2	098	165	30941	30642	1.4	-0.3	5.2	-47.6	
178/11:29:00	70 59.2	015 52.3	0355	175.2	096	164	30948	30674	1.5	-0.8	5.1	-48.2	
178/11:30:00	70 53.3	015 52.7	0354	175.4	094	164	30940	30683	1.4	-0.9	5.3	-47.8	
178/11:31:00	70 47.5	015 53.2	0354	175.7	093	163	30950	30704	2.0	-0.3	5.7	-47.2	
178/11:32:00	70 41.5	015 54.7	0353	167.9	092	161	30939	30683	1.8	-5.5	5.9	-46.9	
178/11:33:00	70 35.9	015 58.8	0354	165.4	092	160	30938	30669	1.7	-0.7	6.7	-47.6	
178/11:33:58	70 30.6	016 04.1	0353	166.8	093	158	31012	30731	0.7	12.5	7.2	-47.8	11 33 40 CAMERA ON.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 10 --- MIZEK

----TIME----	--LAT--	--LONG--	GRD TRUE SPD HEAD	-WIND- SPD DIR	-ALTITUDE- PRES RADAR	PITCH	ROLL	-TEMP- IR	AIR			
178/11:34:00	70 30.4	016 04.1	0354 169.7	092 160	30978 30707	1.0	9.8	7.2	-47.9			
178/11:35:00	70 24.3	016 04.6	0360 175.4	092 158	30948 30686	1.6	-0.7	7.1	-46.5			
178/11:36:00	70 18.3	016 04.6	0361 175.8	091 158	30939 30638	1.6	-1.3	7.5	-47.6			
178/11:37:00	70 12.5	016 04.3	0362 176.3	091 157	30939 30618	1.5	-0.7	7.8	-48.4			
178/11:38:00	70 06.2	016 03.9	0363 176.6	089 157	30938 30623	1.6	-0.5	8.0	-48.0			
178/11:39:00	70 00.4	016 03.6	0363 176.4	090 156	30951 30640	1.5	-0.9	9.1	-48.0			
178/11:40:00	69 54.4	016 03.5	0363 175.8	091 157	30945 30626	1.6	-0.7	8.3	-47.8			
178/11:41:00	69 48.2	016 03.4	0364 175.6	088 154	30930 30607	1.8	-0.7	8.7	-48.2			
178/11:42:00	69 42.2	016 03.2	0364 176.2	087 153	30939 30626	1.8	-2.7	9.0	-48.1			
178/11:43:00	69 36.2	016 02.9	0364 174.8	089 152	30949 30607	1.4	-0.5	8.3	-47.6			
178/11:44:00	69 30.0	016 03.2	0364 173.8	090 153	30962 30631	1.5	1.3	8.8	-49.3			
178/11:45:00	69 23.9	016 03.3	0365 174.5	089 153	30959 30621	1.4	-0.9	7.9	-49.1			
178/11:45:08	69 23.3	016 03.3	0366 174.6	089 153	30956 30630	1.5	-0.5	8.5	-47.8	*** START OF RUN 9	TIME	11.45.09	LAT 6923.3 N	LGI 0163.3 E	FL 359
178/11:46:00	69 18.0	016 03.2	0363 175.4	091 153	30946 30624	1.3	-0.7	15.5	-49.0						
178/11:46:04	69 17.3	015 03.2	0368 175.3	092 153	30944 30718	1.5	-1.1	21.0	-48.1	FIRST REFLECTOR. 11 46 00.					
178/11:46:46	69 13.2	016 03.0	0368 175.4	091 153	30949 30357	1.4	-0.8	17.3	-47.8	SECOND REFLECTOR. 11 46 43.					
178/11:47:00	69 11.6	016 02.9	0368 174.9	088 153	30960 30552	1.2	-1.8	21.6	-50.1						
178/11:47:24	69 09.4	016 03.0	0369 174.5	091 153	30946 30494	1.2	-2.2	22.3	-47.4	THIRD REFLECTOR - 11 47 20.					
178/11:47:70	69 05.6	016 02.9	0360 171.7	094 150	30971 30603	3.1	-26.6	23.8	-47.9						
178/11:48:06	69 05.0	016 03.3	0350 164.1	094 150	30996 30646	1.8	-28.9	6.0	-48.3	!!! END OF RUN 9	TIME	11.48.05	LAT 6925.0 N	LGI 0163.3 E	FL 359
178/11:48:12	69 04.5	016 03.8	0339 155.4	096 148	30968 30645	2.0	-29.0	15.4	-48.7	CAMERAS OFF 11 48 00.					
178/11:49:00	69 00.7	016 07.9	0330 181.0	086 152	29946 29564	-3.4	-1.1	8.8	-44.4						
178/11:50:00	68 54.6	016 06.4	0354 181.3	059 167	24372 23783	-6.2	-2.1	10.1	-33.7						
178/11:51:00	68 47.8	016 05.7	0420 180.1	034 171	10730 18508	-4.7	-0.7	9.7	-21.7						
178/11:52:00	68 41.0	016 05.3	0395 180.3	026 160	14373 14008	-4.5	-1.1	13.2	-13.6						
178/11:53:00	68 34.6	016 04.9	0372 180.2	017 164	10278 7235	-3.9	-1.2	9.5	-6.0						
178/11:54:00	68 28.9	016 04.8	0318 179.9	012 164	8114 7315	-1.9	-1.1	19.7	-1.6						
178/11:55:00	68 24.3	016 06.6	0275 132.9	004 136	6184 6002	-1.0	-20.6	11.4	-1.3						
178/11:56:00	68 23.7	016 16.9	0221 072.7	015 189	4338 4183	-5.4	-2.4	8.5	-5.8						
178/11:57:00	68 24.8	016 25.4	0179 070.5	005 263	3000 2849	-2.5	-0.8	9.8	10.5						
178/11:58:00	68 25.7	016 32.9	0176 070.7	009 250	2240 2074	2.0	-7.1	10.9	10.9						
178/11:59:00	68 26.7	016 40.8	0169 069.5	005 263	1627 1249	-0.8	-2.3	12.0	15.8						
178/12:00:00	68 28.7	016 44.6	0158 355.2	010 197	317 1225	2.3	0.4	13.2	17.3						

3.8 Seventh Data Flight—Day 180—Evenes RT

All instruments were operational.

Pattern 'D' was flown over Nordaustlandet. The left-over time was used to fly a straight-line transect between 80° 20' N, 15° 00' E to west of the estimated position of the Polarstern, 80° 20'N, 5° 00'W. We returned on a parallel line 5 nm north of that to the 0° 30.8' meridian and headed south along one of the tracks flown on Day 178 to a latitude of 79° 30', the predicted location of the northern edge of the eddy, and then headed east. Because of anticipated strong headwinds on the return home, we were able to execute only a single transect of the large eddy region observed two days earlier.

Nordaustlandet was about 95% cloud-covered, so photographic coverage was quite limited. Microwave signatures indicated that the upper layer of the ice cap was near the melt point, and so the signature was monotonous.

The east/west transect over the sea ice was clear, and afforded the opportunity for some excellent photography of sea ice. The lack of cloud cover also resulted in below-freezing ice temperatures and the strongest multiyear microwave signatures observed so far on this mission.

We were not so fortunate in our attempts to obtain microwave imagery of the large eddy, since it had drifted southwards and outside of the preselected imager swath. It was easily observed visibly, however, with about the same eastward extent as before. Hopefully, the 45° metric camera also captured an image of it to permit more precise placement on subsequent analysis.

ORIGINAL PAGE IS
OF POOR QUALITY

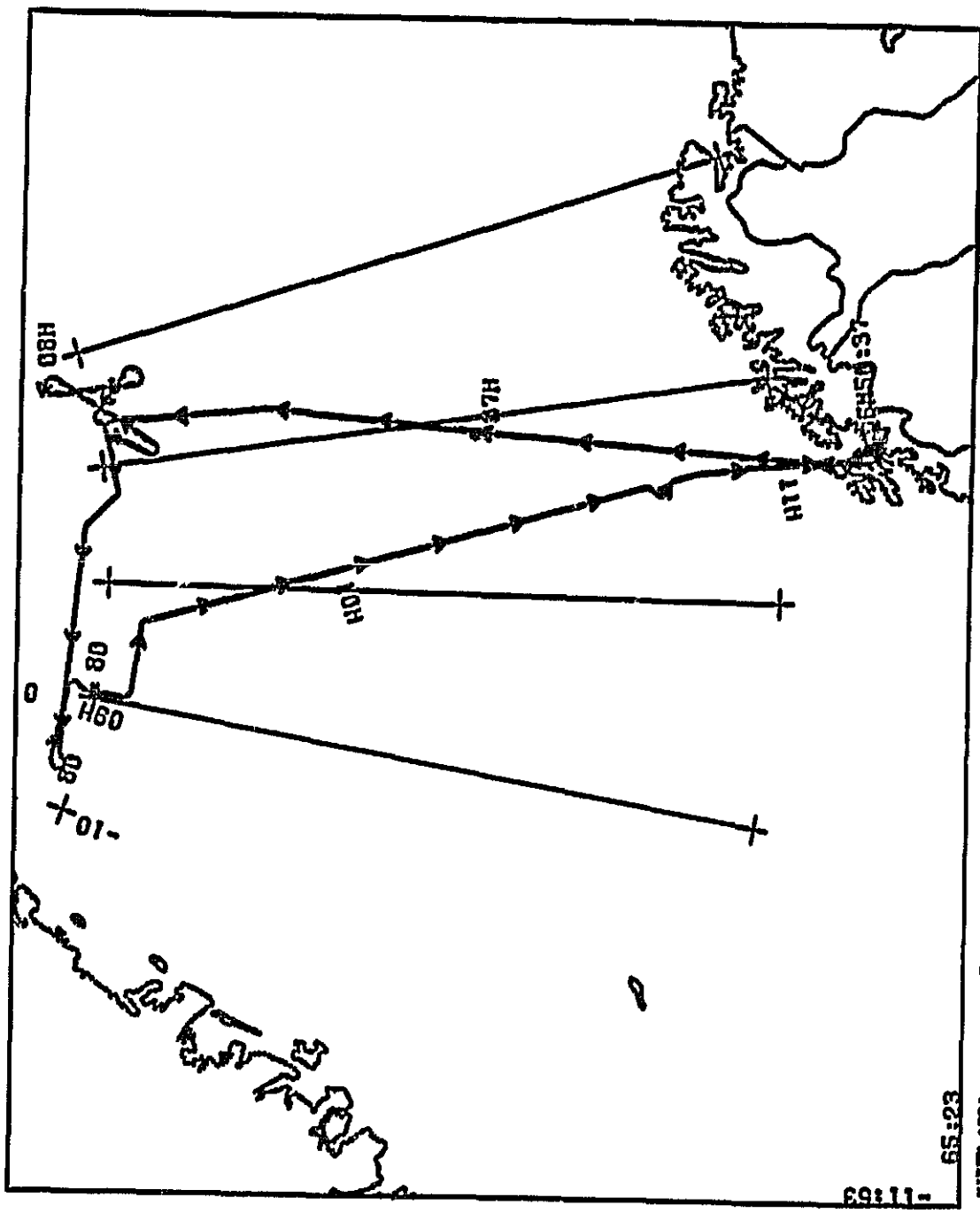


Figure 21. Flight tracks: Evenes RT 6/28

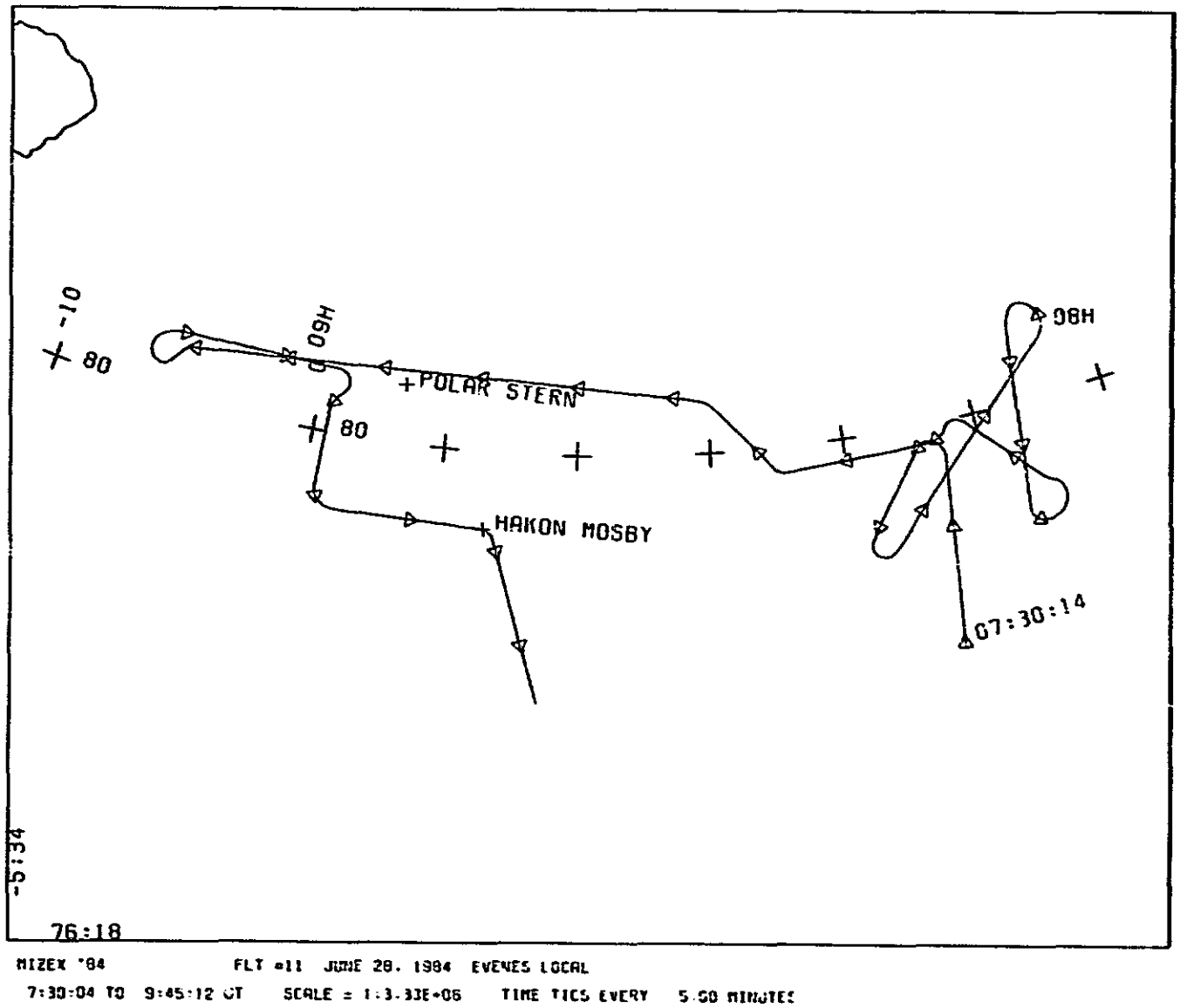


Figure 22. Survey pattern: 6/28

YEAR 1934 ADDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

-----TIME-----	--LAT--	--LONG--	GND SPD	TRUE HEAD	-MACH-- SPD	QIR	-ALTITUDE-- PRES	RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
180/05:50:19	68	00.0	000	00.0	0000	000.0	000	000	-5	-193	-0.8	-14.9	38.6	9.7	
180/05:51:01	68	29.3	016	41.1	0000	083.6	118	083	25	723	0.0	-0.7	35.9	9.6	
180/05:52:01	68	29.3	016	41.1	0000	083.6	118	083	250	723	0.0	-0.7	34.5	10.1	
180/05:53:01	68	29.3	016	41.1	0000	083.6	118	083	253	721	0.0	-0.7	29.9	11.5	
180/05:54:01	68	29.3	016	41.1	0000	083.6	118	083	253	721	0.0	-0.7	29.9	11.5	
180/05:55:01	68	29.3	016	41.1	0000	083.6	118	083	257	721	0.0	-0.7	20.4	7.7	
180/05:56:55	68	00.0	000	00.0	0000	000.0	000	000	253	720	0.0	-0.6	14.6	8.5	
180/05:57:01	68	29.3	016	41.1	0000	083.7	118	083	259	720	0.1	-0.7	14.3	9.4	
180/05:58:01	68	29.3	016	41.1	0000	083.6	118	083	252	723	0.1	-0.7	12.7	7.1	
180/05:59:01	68	29.3	016	41.1	0000	083.6	118	083	256	720	0.0	-0.7	12.9	6.7	
180/06:00:01	68	29.3	016	41.1	0003	335.1	114	337	252	722	-1.2	-1.5	13.1	5.4	
180/06:01:01	68	29.3	016	41.1	0009	246.0	103	248	261	722	0.1	-1.1	13.1	8.2	
180/06:02:01	68	28.9	016	40.8	0018	176.2	099	176	252	725	-0.9	0.2	13.2	7.9	
180/06:03:01	68	28.7	016	40.8	0014	181.1	104	181	250	722	-1.0	0.3	13.5	5.4	
180/06:04:01	68	28.7	016	40.9	0012	349.2	107	356	262	724	-0.5	0.1	13.5	7.0	
180/06:05:01	68	30.4	016	40.5	0162	358.4	014	356	932	721	14.5	1.2	13.6	5.7	
180/06:05:53	68	32.9	016	40.8	0195	000.9	014	010	2622	1921	11.0	-1.3	13.3	2.6	TAKE OFF TIME 05 04 39
180/06:05:57	68	33.2	016	40.9	0197	000.9	014	010	2753	2060	11.5	-1.1	13.2	1.6	[illegible] DAY 180
180/06:06:01	68	33.4	016	40.8	0199	001.3	013	017	2873	2213	11.4	-1.4	13.3	1.9	JUNE 29, 1934
180/06:06:05	68	33.5	016	40.9	0201	001.0	010	022	2990	2311	11.4	-1.7	1.0	1.5	FLIGHT 11
180/06:06:15	68	34.1	016	40.9	0210	000.5	007	036	3247	2689	9.3	-1.2	3.9	2.0	CORRECTION: FLIGHT 11
180/06:06:19	68	34.2	016	40.7	0214	000.5	007	036	3334	2824	9.1	-1.5	3.9	1.3	EVENTS/EVENTS
180/06:06:33	68	35.2	016	40.8	0230	000.2	007	034	3623	3200	7.8	-1.6	3.8	2.3	H/P 1 68-20.1 16-00.1E
180/06:06:43	68	35.7	016	40.8	0244	359.7	003	093	3787	3231	6.5	-1.4	4.4	3.3	H/P 2 69-17.5 16-00.1E
180/06:06:55	68	36.7	016	40.5	0260	359.4	011	129	3936	3129	6.5	-1.0	3.0	2.7	H/P 3 74-59.0 19-15.0E CEAR ICLACO
180/06:07:01	68	37.1	016	40.4	0267	359.1	010	100	4055	3397	8.6	-1.9	3.8	3.3	
180/06:07:07	68	37.6	016	40.4	0267	359.5	011	039	4325	3649	10.5	-6.2	3.4	2.5	H/P 4 77-26.9 22-27.9
180/06:07:17	68	38.3	016	40.2	0268	347.6	005	031	4773	4155	9.7	-23.0	3.6	2.5	H/P 5 79-05.4 23-16.0E
180/06:07:41	68	39.8	016	37.4	0275	297.8	007	134	5504	5591	9.8	-29.4	3.5	1.0	H/P 6 79-44.3 25-33.9E
180/06:07:49	68	40.1	016	36.2	0277	285.1	011	139	6109	5934	8.6	-29.7	3.3	0.8	H/P 7 79-24.4 20-55.6E
180/06:08:01	68	40.1	016	33.5	0279	256.2	013	129	6532	5992	9.0	-29.9	2.7	0.4	H/P 8 79-17.5 21-34.7E
180/06:08:39	68	38.0	016	28.8	0276	177.6	015	102	7947	6954	8.3	-14.0	2.1	-3.1	H/P 1' 80-11.5 26-50.5E
180/06:08:53	68	37.0	016	20.9	0277	173.4	010	105	8529	7972	8.7	-1.6	-3.4	-5.1	H/P 2' 79-35.6 26-26.7E
180/06:09:01	68	36.3	016	29.1	0278	173.2	011	107	8852	8086	8.7	0.0	-4.2	-6.0	
180/06:09:03	68	36.3	026	29.1	0278	173.3	009	110	8931	8159	8.7	0.2	-4.5	-4.4	H/P 3' 79-55.5 24-45.0E
180/06:09:17	68	35.0	016	29.4	0281	173.5	011	098	9455	9036	8.4	1.1	-5.7	-6.6	H/P 4' 79-51.9 23-20.5E
180/06:09:29	68	34.2	016	29.6	0284	173.6	012	079	9835	8750	8.4	-1.5	-5.0	-7.0	H/P 5' 79-49.6 17-55.1
180/06:09:39	68	33.4	016	29.6	0286	173.6	012	032	10155	9231	6.3	0.9	-7.1	-8.7	H/P 6' 80-20.0 15-00.0E
180/06:10:01	68	31.8	016	30.0	0299	173.8	015	075	10255	9129	3.8	-1.1	-4.3	-7.5	H/P 7' 80-20.0 0-30.0E
180/06:10:11	68	30.8	016	30.1	0300	173.6	014	033	10261	8406	3.5	0.2	-4.6	-8.0	H/P 8' 79-03.0 0-27.2E
180/06:10:27	68	29.4	016	30.4	0303	173.6	014	078	10259	9996	3.7	0.0	-5.6	-9.3	H/P 1" 78-59.9 1-19.6E
180/06:10:39	68	28.5	016	30.5	0306	174.6	010	078	10263	9734	3.9	10.0	-5.5	-8.6	H/P 2" 79-59.9 1-27.3E
180/06:10:51	68	27.4	016	30.4	0303	103.9	006	070	10322	10267	3.9	30.5	-5.4	-9.6	H/P 3" 79-59.6 2-24.9E
180/06:11:01	68	26.6	016	29.4	0313	210.4	006	062	10303	10265	3.9	29.6	-4.8	-7.5	
180/06:11:09	68	26.1	016	28.4	0315	224.6	006	050	10300	10055	3.9	30.1	-3.9	-6.4	H/P 4" 78-59.7 2-12.0E
180/06:11:19	68	25.4	016	26.6	0319	245.3	010	050	10257	10029	1.7	30.1	-4.6	-8.4	H/P 5" 78-59.3 3-04.3E
180/06:11:33	68	25.3	016	23.3	0331	273.4	016	066	9970	9021	1.8	29.0	-4.8	-6.7	H/P 6" 79-59.2 3-22.4E
180/06:11:55	68	26.0	016	18.0	0337	305.6	011	103	9773	8960	2.6	0.2	-4.6	-7.0	H/P 7" 79-58.7 4-19.0E
180/06:12:01	68	26.3	016	17.1	0336	305.3	011	103	9331	8525	5.3	-3.3	-5.0	-6.6	
180/06:12:07	68	26.6	016	15.7	0332	305.3	010	117	9971	9517	4.1	2.3	-4.0	-6.9	H/P 8" 78-58.8 5-56.6E
180/06:12:23	68	27.4	016	12.7	0333	303.4	014	113	10021	9792	2.9	-0.7	-6.0	-7.1	H/P 1/3 75-10.4 1-56.2E
180/06:12:39	68	28.1	016	09.0	0335	303.6	012	114	10039	9739	3.2	8.0	-4.2	-7.3	H/P 2/3 71-11.1 15-52.2E IP
180/06:13:01	68	29.4	016	04.7	0337	315.9	011	107	10023	9420	2.9	15.1	-5.9	-7.8	
180/06:14:01	68	34.6	015	59.2	0339	359.8	007	141	9975	8218	2.6	-0.2	-3.0	-7.5	
180/06:14:05	68	34.9	015	59.1	0339	359.1	007	125	9933	8444	2.6	2.6	-3.1	-8.2	H/P 3/3 69-17.3 16-00.1E
180/06:14:15	68	36.0	015	59.1	0339	001.9	010	096	10025	7952	3.0	6.4	-3.8	-7.1	H/P 4/3 69-11.1 16-00.1E
180/06:14:39	68	38.1	015	59.4	0341	006.2	009	101	10035	10108	2.2	-1.0	-4.5	-5.7	H/P 5 69-29.5 16-40.7E REV
180/06:14:51	68	39.3	015	59.6	0343	005.5	003	107	10028	8177	2.0	-2.3	-3.8	-6.9	H/P 5/3 69-47.5 16-39.3E ARSA
180/06:15:01	68	40.2	015	59.6	0345	004.3	007	117	99999	9724	2.5	-2.1	-0.1	-5.9	
180/06:15:03	68	40.3	015	59.9	0345	003.8	007	117	10000	9725	2.4	-3.3	-0.4	-6.4	H/P 6/3 69-35.9 16-40.9E FS

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIXED

TIME	LAT	LONG	GND SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
180/06:15:21	68 42.0	015 59.9	0344	032.2	033	100	9992	9710	2.6	-1.3	-2.8	-7.4	H/P 7/3 69-27.5 16-41.1ZZ EST
180/06:15:35	68 43.4	015 59.9	0344	031.7	010	033	9933	9737	2.4	-0.3	-5.0	-7.9	H/P 8/3 69-22.1 15-55.7E RTV.
180/06:16:01	68 45.8	015 59.9	0343	031.4	010	104	9997	9196	2.3	-0.6	-1.5	-7.5	
180/06:17:01	68 51.6	016 00.0	0343	032.4	013	201	9991	9725	2.2	0.3	-1.6	-8.0	
180/06:17:15	68 53.0	015 59.9	0343	032.8	010	100	9978	9723	2.5	-1.0	-1.0	-8.0	*** START OF RUN 1 TIME 06.17.14 LAT 6853.0 N LON 01559.9 E FL 99
180/06:18:01	68 57.3	016 00.2	0339	031.9	010	033	9985	9719	2.4	-0.7	-5.6	-7.3	
180/06:19:01	69 02.8	016 00.1	0336	031.8	010	033	9982	9715	2.5	-0.7	-5.5	-8.5	
180/06:20:01	69 08.4	016 00.1	0334	031.6	009	024	9976	9627	2.6	-0.6	-6.2	-6.5	FIRST REFLECTOR.
180/06:20:21	69 10.3	016 00.2	0332	031.7	010	096	9986	9639	2.8	-0.6	-6.4	-8.6	DELAY CHANGE.
180/06:20:39	69 12.0	016 00.2	0332	031.7	010	077	9983	9629	2.7	-0.4	-6.4	-7.4	SECOND REFLECTOR.
180/06:20:55	69 13.4	016 00.0	0332	031.9	010	033	9976	8703	2.7	-0.7	-5.9	-7.8	DELAY CHANGE.
180/06:21:01	69 13.9	016 00.2	0331	031.7	010	033	9985	8592	2.7	-0.5	-5.6	-7.9	
180/06:21:05	69 14.2	016 00.2	0331	031.9	010	035	9986	8674	2.6	-0.5	-5.7	-9.3	CORRECTION DELAY CHANGE 06 20 22.
180/06:21:27	69 16.4	016 00.0	0331	031.4	007	033	9970	9656	2.7	-0.8	-5.8	-7.1	THIRD REFLECTOR.
180/06:22:01	69 19.3	016 00.1	0331	031.4	007	094	9990	9741	2.7	-0.7	-5.4	-7.7	
180/06:23:01	69 25.0	016 00.2	0330	031.5	009	084	9991	9751	2.7	-0.8	-4.9	-7.4	
180/06:23:27	69 27.3	016 00.2	0330	031.2	006	033	9982	9749	3.0	-1.1	-4.6	-9.7	!!! END OF RUN 1 TIME 06.23.26 LAT 6927.3 N LON 01600.2 E FL 97
180/06:24:01	69 30.4	016 01.4	0329	029.8	015	091	11440	11161	6.8	12.1	-4.7	-15.1	
180/06:25:01	69 35.3	016 03.7	0324	016.9	009	152	13445	13182	6.7	-6.2	-9.8	-13.9	
180/06:26:01	69 41.4	016 12.1	0321	010.2	002	141	15780	15492	5.6	-0.9	-3.4	-10.4	
180/06:27:01	69 47.3	016 15.0	0323	010.8	013	126	17782	17455	5.6	-0.4	-2.5	-23.8	
180/06:28:01	69 53.6	016 17.7	0324	011.1	015	134	19576	19203	5.0	-0.4	-0.5	-20.7	
180/06:29:01	69 59.9	016 21.0	0326	011.4	016	137	21254	20859	4.7	-0.2	-1.0	-31.4	
180/06:30:01	70 06.4	016 24.4	0329	011.6	011	129	22673	22253	3.9	-0.1	-1.4	-34.9	
180/06:31:01	70 13.4	016 27.9	0333	011.5	010	117	23648	23154	4.3	-0.7	-0.7	-37.3	
180/06:32:01	70 20.6	016 31.8	0337	011.5	013	111	25158	24645	3.1	-0.6	-1.0	-38.6	
180/06:33:01	70 27.7	016 35.4	0337	011.6	013	093	26737	26174	4.3	-0.4	-1.0	-45.5	
180/06:34:01	70 34.7	016 39.0	0434	011.9	014	115	28210	27645	4.5	-0.1	-0.3	-47.1	
180/06:35:01	70 42.0	016 43.1	0432	012.6	022	131	29437	28850	4.2	-0.9	-1.7	-47.8	
180/06:36:01	70 48.9	016 46.8	0435	013.1	027	136	30222	29631	3.1	-0.6	-2.*	-46.4	
180/06:37:01	70 56.3	016 50.6	0450	013.0	025	136	30853	30254	3.5	-0.7	-...5	-46.4	
180/06:38:01	71 03.6	016 54.8	0457	014.1	037	137	31014	30453	3.3	-0.(	-2.8	-46.0	
180/06:39:01	71 11.0	016 59.2	0465	013.8	035	139	31915	30843	3.3	-0.	-3.2	-43.9	
180/06:39:07	71 12.0	016 59.5	0465	013.6	034	139	31453	30877	3.3	-0.3	-3.2	-44.9	ADDS UP AND RUNNING 06 19 00 - REAL TIME MODE - GEORGIA TECH.
180/06:40:01	71 18.8	017 03.4	0473	013.8	036	147	31830	31249	3.3	-0.5	-3.5	-45.1	
180/06:41:01	71 26.6	017 07.9	0481	014.4	042	147	32279	31737	3.4	-1.1	-3.6	-44.2	
180/06:42:01	71 34.5	017 12.7	0483	014.1	040	149	32655	32368	3.7	-0.4	-3.4	-44.5	
180/06:43:01	71 42.4	017 17.1	0491	013.6	039	151	32920	32475	2.6	-0.9	-3.0	-44.5	
180/06:44:01	71 50.6	017 22.3	0498	014.2	042	148	32935	32459	2.4	-0.2	-3.3	-44.8	
180/06:45:01	71 59.5	017 27.3	0501	014.1	044	153	32959	32976	2.4	-0.9	-4.0	-45.1	
180/06:46:01	72 06.7	017 32.3	0501	014.4	047	152	32959	32482	2.6	-0.9	-3.9	-43.2	
180/06:47:01	72 15.1	017 37.5	0502	014.[	744	152	32978	32501	2.6	-0.1	-3.5	-45.4	
180/06:48:01	72 23.2	017 42.7	0506	015.1	049	150	32964	32506	2.4	-0.3	-4.2	-45.9	
180/06:49:01	72 31.4	017 47.9	0510	015.2	053	152	32971	32503	2.4	-0.2	-4.2	-47.1	
180/06:50:01	72 39.8	017 53.8	0513	015.2	055	152	32964	32520	2.4	-0.1	-4.1	-44.4	
180/06:51:01	72 48.3	017 59.5	0515	015.6	056	153	32964	32530	2.3	-0.8	-3.8	-46.2	
180/06:51:51	72 55.2	018 04.0	0517	015.3	060	159	32936	32537	2.4	-0.7	-4.0	-49.2	ADDAS CHECKLIST WITH MDC - OKAY.
180/06:52:01	72 56.5	018 04.9	0517	015.5	060	157	32951	32541	2.4	-0.7	-3.9	-46.2	
180/06:53:01	73 05.2	018 10.9	0519	015.9	065	156	32955	32560	2.5	-0.1	-3.9	-45.2	
180/06:54:01	73 13.5	018 16.8	0522	016.5	071	159	32959	32575	2.5	-0.2	-3.5	-47.5	
180/06:55:01	73 21.9	018 22.9	0525	016.4	074	161	32976	32610	2.4	-0.6	-3.9	-49.1	
180/06:56:01	73 30.7	018 29.2	0530	016.3	079	165	32980	32623	2.5	-0.7	-3.4	-49.5	
180/06:57:01	73 39.3	018 35.5	0536	016.1	079	167	32967	32642	2.4	-2.0	-3.1	-46.9	
180/06:58:01	73 47.9	018 42.2	0542	016.4	084	168	32974	32647	2.3	-1.7	-2.3	-48.3	
180/06:59:01	73 56.8	018 49.0	0547	016.1	085	169	32964	32631	2.0	0.0	-3.0	-48.7	
180/07:00:01	74 05.7	018 56.0	0547	015.9	082	169	32980	32611	2.2	-0.7	-3.5	-46.3	
180/07:01:01	74 14.5	019 02.8	0546	016.2	081	171	32971	32649	2.5	-1.2	-3.4	-48.0	
180/07:02:01	74 23.6	019 10.1	0545	015.6	080	174	32984	32653	2.3	-0.3	-0.8	-47.9	
180/07:03:01	74 32.3	019 17.7	0542	016.7	084	175	32959	32693	2.5	-0.5	-1.7	-47.9	
180/07:04:01	74 40.9	019 25.4	0545	016.4	089	177	32952	32712	2.6	-0.5	-2.6	-46.7	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
180/07:05:01	74 50.0	019 33.8	0549	016.0	087	179	32966	32718	2.2	-0.6	-2.5	-48.5	
180/07:06:01	74 58.9	019 42.1	0554	016.0	089	181	32967	32705	2.3	-0.4	-1.9	-48.0	
180/07:07:01	75 07.6	019 50.4	0556	016.3	089	181	32958	32711	2.0	-0.7	-2.0	-47.1	
180/07:08:01	75 16.9	019 59.6	0558	016.0	089	182	32965	32716	2.2	-0.4	-2.1	-47.6	
180/07:09:01	75 25.7	020 08.3	0557	016.1	087	183	32960	32747	2.2	-1.1	-1.9	-49.1	
180/07:09:43	75 32.0	020 14.4	0556	015.9	085	184	32965	32761	2.0	-0.6	-2.1	-48.9	LAT 60 2EN LON 3 17.CN POLAR STERN.
180/07:10:01	75 34.6	020 17.0	0555	016.1	087	184	32960	32752	2.0	-0.5	-1.9	-50.1	
180/07:10:15	75 36.8	020 19.2	0555	016.4	086	182	32958	32752	2.2	-0.8	-1.9	-49.4	LAT 79 3CN LON 6 4CE HV.
180/07:11:01	75 43.7	020 26.4	0552	016.3	087	184	32949	32769	2.3	-0.2	-1.6	-48.6	
180/07:12:01	75 52.4	020 35.5	0549	016.2	087	186	32971	32779	2.5	-0.6	-1.4	-48.4	
180/07:13:01	76 01.1	020 45.0	0548	016.5	088	185	32960	32772	2.4	-0.4	-0.9	-49.8	
180/07:14:01	76 10.1	020 54.4	0549	016.4	089	187	32969	32791	2.4	-0.7	-0.8	-48.9	
180/07:15:01	76 18.9	021 04.3	0550	016.5	089	187	32954	32797	2.3	-0.6	-0.7	-49.1	
180/07:16:01	76 27.5	021 14.6	0550	016.4	087	188	32966	32802	2.4	-0.5	-0.7	-48.8	
180/07:17:01	76 36.7	021 25.1	0551	016.3	086	189	32970	32819	2.3	-0.4	-0.4	-50.0	
180/07:18:01	76 40.2	021 36.8	0551	016.5	087	190	32961	32805	2.3	-0.4	-0.7	-48.0	
180/07:19:01	76 54.0	021 46.2	0552	016.1	085	192	32963	32760	2.2	-0.5	-0.7	-49.1	
180/07:20:01	77 03.0	021 57.4	0551	016.4	084	193	32973	32743	2.2	-0.7	-0.8	-49.8	
180/07:21:01	77 11.8	022 08.9	0550	017.0	084	191	32971	32747	2.3	-0.7	-0.5	-48.8	
180/07:21:15	77 13.7	022 11.4	0549	016.9	081	191	32956	32737	2.2	-0.8	-0.3	-48.8	SIDELOOKING CAMERA 35MM ON 07 21 CO.
180/07:21:35	77 16.8	022 15.4	0549	016.6	085	192	32945	32737	2.4	-0.6	-1.1	-47.6	SEA ICE SOUTH OF SVALBARD ON PORT SIDE OF AIRCRAFT.
180/07:22:01	77 20.4	022 19.9	0548	016.8	082	192	32957	32802	2.4	0.1	-0.7	-48.6	
180/07:22:39	77 26.3	022 27.3	0546	011.8	081	196	32962	32753	2.3	-10.0	-0.6	-47.2	07 22 00 H/P 4
180/07:23:01	77 29.4	022 29.9	0544	005.8	078	195	32981	32760	2.1	-5.3	-0.9	-47.8	
180/07:23:27	77 33.3	022 31.9	0542	002.6	079	195	32978	32738	2.1	-1.9	-0.7	-48.2	45 DEGREE 10 PERCENT OVERLAP - 60 PERCENT ON OTHER CAMERA.
180/07:24:01	77 30.2	022 33.8	0541	002.8	078	194	32960	32722	2.4	0.0	-0.9	-48.8	
180/07:25:01	77 47.1	022 36.9	0541	003.5	082	197	32955	32608	2.4	-0.7	-0.5	-47.9	
180/07:26:01	77 56.1	022 41.3	0539	003.5	081	196	32985	32396	2.3	-0.9	-1.0	-48.7	
180/07:27:01	78 00.2	022 45.4	0531	005.5	062	185	32994	32331	3.4	0.2	-0.6	-47.9	
180/07:28:01	78 13.7	022 49.6	0532	004.0	078	194	32960	32676	2.2	-0.8	5.2	-46.0	
180/07:29:01	78 22.9	022 54.1	0532	004.3	074	193	32971	32705	2.2	-0.4	-0.8	-46.9	
180/07:30:01	78 30.2	022 58.0	0534	004.3	075	194	32983	32733	2.0	-0.9	-0.9	-45.9	
180/07:31:30	00 00.0	000 00.0	0000	000.0	000	000	32985	32725	2.2	-0.6	-0.5	-45.0	
180/07:31:44	78 46.5	023 05.6	0534	004.2	071	193	32959	32721	2.4	-0.9	-0.6	-45.7	ADDAS DOWN 07 30 21 BACK UP 07 31 31.
180/07:31:52	78 47.8	023 06.7	0533	004.0	070	197	32958	32725	2.1	-1.2	-0.6	-45.7	START MARE DATA RUN 07 29 CO.
180/07:31:58	78 48.6	023 07.0	0534	004.0	070	197	32993	32709	2.0	-0.8	-0.7	-46.8	CAMERAS ON 07 30 CO.
180/07:32:00	78 49.0	023 07.0	0534	004.0	068	198	32986	32718	2.1	-0.3	-0.6	-45.6	
180/07:33:00	78 57.7	023 12.1	0535	004.2	074	195	32926	32693	2.7	-0.9	-1.1	-47.1	
180/07:33:56	79 06.2	023 16.3	0536	003.7	076	198	32944	32671	2.5	-1.1	-0.6	-44.5	*** START OF RUN 2 TIME 07.33.55 LAT 7506.2 N LON 02316.3 E FL 329
180/07:34:00	79 06.7	023 16.5	0536	003.6	075	198	32949	32677	2.5	-0.9	-0.5	-47.0	
180/07:34:18	79 09.4	023 18.3	0536	003.6	071	193	32974	32691	2.1	-0.4	-0.4	-45.1	SEA ICE.
180/07:34:32	79 11.5	023 19.2	0537	003.7	074	193	32982	32673	2.2	-0.5	-0.5	-44.4	ISLAND.
180/07:34:48	79 13.6	023 20.3	0538	003.[illegible]	074	199	32947	32315	2.6	0.0	-0.[illegible]	-43.7	INBOUND COASTAL CROSSING.
180/07:34:58	79 15.2	023 21.7	0538	004.0	072	199	32965	32172	2.3	-0.3	-0.2	-42.9	BRASVELLBREEN.
180/07:35:00	79 15.4	023 21.7	0537	004.0	073	200	32967	32158	2.2	-0.5	-0.3	-42.3	
180/07:35:14	79 17.6	023 22.9	0537	004.0	072	200	32976	32021	2.4	-0.1	-0.2	-42.7	FULL CLOUD COVER BELOW.
180/07:36:00	79 24.3	023 26.8	0538	004.0	070	201	32982	31550	2.4	-1.1	-0.2	-42.7	
180/07:37:00	79 33.2	023 32.0	0538	004.4	070	200	32954	30628	2.4	-0.5	-0.5	-44.2	
180/07:38:00	79 42.1	023 37.9	0535	004.8	066	199	32980	30464	2.1	-0.8	-0.6	-41.7	
180/07:38:14	79 44.3	023 39.4	0535	004.9	066	198	32969	30358	2.4	-0.6	-0.8	-42.0	!!! END OF RUN 2 TIME 07.38.13 LAT 7944.3 N LON 02339.4 E FL 329
180/07:39:00	79 50.4	023 32.8	0498	316.5	072	202	33009	30248	2.6	-28.7	-1.2	-41.1	
180/07:40:00	79 52.7	022 54.6	0421	240.0	076	193	32999	30938	2.6	-28.7	-1.8	-42.4	
180/07:41:00	79 48.2	022 27.7	0407	215.1	069	198	32878	31803	2.6	-2 [illegible]	0.7	-42.0	
180/07:41:20	79 46.4	022 20.4	0405	219.3	070	199	32924	31591	2.2	-1.5	-0.7	-40.9	*** START OF RUN 3 TIME 07.41.19 LAT 7946.4 N LON 02220.4 E FL 329
180/07:42:00	79 42.8	022 05.4	0405	213.8	068	200	32944	31908	2.6	-0.6	-0.8	-40.4	
180/07:43:00	79 37.3	021 43.1	0405	213.9	073	198	32981	31382	2.2	-0.1	-0.7	-44.1	
180/07:43:08	79 36.4	021 40.2	0405	214.0	071	196	32973	31184	1.9	-0.6	-0.9	-43.2	ALOT OF BARE LAND UNDERNEATH.
180/07:44:00	79 31.9	021 20.7	0406	213.9	069	195	32949	31937	2.4	-0.6	-0.8	-41.3	
180/07:44:52	79 27.1	021 02.2	0405	211.9	069	195	32975	31011	2.2	0.1	-1.3	-43.3	2.8 PER SECOND MARE DATA AVERAGE.
180/07:45:00	79 26.5	020 59.6	0406	212.2	069	194	32962	31114	2.2	0.0	-1.4	-41.4	

YEAR 1994 ARDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

---TIME---	--LAT--	--LON--	SPD	GRD TRUE HEAD	-WIND- SFC DIR	-ALTITUDE- PRES RADAR	PITCH	ROLL	--TEMP-- IR	AIR			
180/07:45:04	79 25.9	020 57.4	0406	212.3	067 194	32961 31181	2.3	-0.5	-1.2	-41.3	!!! END OF RUN 3 TIME 07.45.03	LAT 7725.9 N	LON 02257.4 E FL 329
180/07:45:03	79 25.7	020 56.6	0407	212.4	069 195	32960 31258	2.3	-0.9	-1.0	-42.2	VOID ABOVE START OF RUN.		
180/07:45:30	79 25.7	020 49.0	0406	212.1	070 197	32969 32014	2.3	-0.9	-0.3	-42.3	CORRECTION: END OF RUN ABOVE - RECND.		
180/07:45:32	79 23.4	020 43.3	0406	212.1	071 197	32973 32061	2.3	-0.9	-0.7	-43.2	!!! END OF RUN 3 TIME 07.45.33	LAT 7723.4 N	LON 02243.3 E FL 329
180/07:46:00	79 20.9	020 38.6	0407	212.3	068 197	32933 32572	2.0	-1.1	-0.9	-43.4			
180/07:46:30	79 18.2	020 29.4	0402	195.6	071 191	33045 32658	2.9	-30.1	-1.2	-43.4	AMS IMAGE STILL CLOSING ON REAL TIME 07 45 CD.		
180/07:47:00	79 14.9	020 30.4	0417	158.3	062 193	33033 32647	2.7	-30.2	-0.8	-42.6			
180/07:47:10	79 13.7	021 34.0	0430	145.6	062 192	32991 32630	2.5	-26.2	-0.8	-42.4	GREASE ICE BETWEEN ICE FLOES, SOME OPEN WATER.		
180/07:48:00	79 12.0	021 03.3	0506	070.5	055 199	33008 32811	2.4	-39.1	-1.1	-43.4			
180/07:48:58	79 17.6	021 38.6	0528	046.8	065 194	32595 32539	2.3	-1.8	-0.5	-43.9	*** START OF RUN 4 TIME 07.48.59	LAT 7917.8 N	LON 02140.0 E FL 329
180/07:49:00	79 17.8	021 40.0	0528	046.6	065 196	32897 32529	2.2	-1.7	-0.4	-44.3			
180/07:49:32	79 21.2	021 50.6	0526	046.9	069 199	32901 32518	2.6	-0.2	-0.7	-42.8	80 TO 85 PERCENT STRATOCUMULUS CLOUDS.		
180/07:50:00	79 24.0	022 11.5	0526	047.5	067 197	32959 32420	2.4	-0.5	-0.9	-43.6			
180/07:50:04	79 25.5	022 17.7	0526	047.7	070 197	32969 32330	2.2	-0.7	-0.7	-43.1	07 49 10 COASTAL CROSSING.		
180/07:50:36	79 27.8	022 31.2	0527	048.4	072 197	32946 31777	2.4	-0.8	-1.0	-42.8	SVARTNGUSFLYA.		
180/07:50:56	79 27.9	022 42.3	0528	048.8	074 197	32953 30725	2.4	-0.4	-1.4	-43.2	AVERAGE FLUX DIVERSION .9 - CAN NOT SEE ICE UNDER CLOUDS.		
180/07:51:00	79 30.4	022 44.5	0529	048.7	073 193	32956 30650	2.5	-0.5	-1.2	-43.7			
180/07:51:26	79 33.8	023 00.1	0530	048.7	074 200	32955 30643	2.5	-1.0	-1.2	-44.0	100 PERCENT CLOUDS - ANN.		
180/07:51:52	79 35.8	023 10.3	0532	049.0	071 200	32965 30506	2.4	-0.5	-1.7	-43.1			
180/07:53:00	79 42.9	023 54.5	0533	049.6	069 193	32971 30427	2.2	-0.8	-0.8	-42.7			
180/07:53:28	79 45.8	024 11.5	0534	050.1	070 193	32970 30251	2.1	-0.6	-0.9	-41.8	BROKEN CLOUD COVER - ANN.		
180/07:54:00	79 48.9	024 29.6	0536	050.6	074 193	32967 30009	2.1	-0.7	-0.8	-42.0			
180/07:55:00	79 55.8	025 07.5	0538	051.8	079 197	32962 30536	2.0	-0.7	-0.9	-43.9	BREAK IN THE CLOUD - ANN.		
180/07:55:03	79 55.8	025 11.8	0539	051.7	080 199	32961 30563	2.2	-1.0	-0.9	-43.3	TOTAL FLUX ON RADIOMETER - ANN.		
180/07:55:20	79 57.1	025 19.7	0539	052.0	080 197	32951 30628	2.1	-0.8	-0.9	-43.2			
180/07:56:00	80 01.2	025 45.5	0541	052.4	082 193	32963 31072	2.3	-0.6	-0.9	-40.8			
180/07:56:12	80 02.6	025 53.1	0541	052.6	084 193	32959 31248	2.2	-0.6	-0.8	-42.7	LESS SHARP LEADING EDGE.		
180/07:56:50	80 06.2	026 17.7	0541	052.7	082 199	32960 31860	2.3	-0.3	-0.9	-41.0	CLOUD BREAK.		
180/07:57:00	80 07.0	026 23.3	0541	052.6	080 201	32971 32075	2.2	-0.6	-0.9	-41.9			
180/07:57:12	80 08.4	026 31.3	0541	052.6	077 200	32982 32383	2.0	-0.7	-1.3	-42.3	07 57 00 CROSSING.		
180/07:57:42	80 11.5	026 51.6	0542	053.0	076 201	32971 32737	2.0	-0.5	-0.7	-39.8	!!! END OF RUN 4 TIME 07.57.43	LAT 8011.5 N	LON 02451.6 E FL 329
180/07:58:00	80 13.1	027 03.6	0543	053.8	078 202	32969 32760	1.9	-0.4	-0.9	-41.3			
180/07:58:04	80 13.6	027 05.2	0543	053.8	080 202	32963 32783	1.9	-0.6	-0.9	-43.0	OUTBOUND 07 57 CD KAPP LEIGH SMITH.		
180/07:59:00	80 15.0	027 11.2	0542	054.7	078 201	32959 32757	2.3	-0.5	-0.4	-41.8			
180/08:00:00	80 25.2	028 21.6	0552	024.2	080 206	33023 32869	2.5	-30.4	-0.3	-42.1			
180/08:00:04	80 25.9	028 23.4	0553	019.1	081 207	33024 32857	2.4	-30.4	-0.8	-42.3	07 59 CD START OF LEFT TURN.		
180/08:01:00	80 35.8	028 56.5	0558	347.0	085 204	32964 32783	2.3	-23.0	-0.8	-40.6			
180/08:02:00	80 37.5	027 05.3	0439	233.5	091 196	32954 32757	2.3	-29.3	-1.5	-41.3			
180/08:03:00	80 37.0	027 07.7	0356	193.5	086 200	32950 32643	2.1	-7.1	-1.6	-40.7			
180/08:04:00	80 26.5	027 01.1	0395	190.3	084 200	32942 32691	2.2	-1.0	-1.6	-43.3			
180/08:05:00	80 20.3	026 55.5	0387	189.9	087 201	32945 32696	2.0	-1.1	-0.9	-41.4	*** START OF RUN 5 TIME 08.04.59	LAT 8020.3 N	LON 02455.5 E FL 329
180/08:05:28	80 17.0	026 53.2	0386	189.4	088 199	32957 32723	2.2	-1.0	-0.8	-43.6	90 PERCENT CLOUD COVER ON MOST OF THE LEGS ONE.		
180/08:05:42	80 15.9	026 52.1	0386	189.5	089 199	32964 32726	2.1	-1.2	-0.7	-42.3	SOMEWHAT UNEVEN CLOUD COVER ON THE START OF THIS RUN.		
180/08:06:00	80 13.9	026 50.9	0385	189.3	088 199	32975 32716	2.0	-0.8	-0.8	-42.4			
180/08:06:02	80 13.4	026 50.3	0386	189.4	089 200	32968 32719	2.0	-0.6	-0.6	-41.5	SEA ICE.		
180/08:06:24	80 11.3	026 48.9	0385	189.3	086 199	32945 32694	2.4	-0.8	-1.1	-41.0	W/P 1.		
180/08:06:56	80 07.9	026 46.3	0384	189.4	088 200	32973 32377	2.1	-0.9	-1.3	-43.6	COASTAL CROSSING 08 06 45.		
180/08:07:00	80 07.4	026 46.3	0384	189.3	087 200	32968 32266	2.1	-0.9	-1.2	-42.2	ISSPYNTEN.		
180/08:07:20	80 05.3	026 44.1	0384	189.1	089 198	32969 31967	2.1	-0.5	-0.9	-42.5	OUTBOUND.		
180/08:07:58	80 01.2	026 42.1	0383	189.0	094 197	32977 31378	2.2	-0.5	-1.3	-42.8	LOWER MORE RADIOMETER INCREASING 10 MICROWATTS PER SECOND.		
180/08:08:00	80 01.2	026 41.6	0383	188.9	095 196	32932 31351	2.0	-0.8	-1.8	-42.3			
180/08:09:00	79 55.0	026 37.4	0378	188.2	093 194	32906 31205	2.1	-1.0	-1.0	-44.5			
180/08:09:34	79 51.3	026 35.4	0375	188.3	101 195	32963 31466	2.0	-0.4	-0.5	-45.7	CORRECTION; KAPP LEIGH SMITH NOT ISSPYNTEN.		
180/08:10:00	79 48.9	026 33.3	0374	188.3	100 195	32933 31574	2.0	-1.0	-0.4	-46.3			
180/08 10:30	79 45.7	026 31.8	0372	188.9	100 197	32900 31928	2.0	-0.2	-0.1	-46.3	COASTAL CROSSING.		
180/08:10:52	79 43.4	026 30.0	0372	188.4	092 194	32939 32038	2.1	-1.5	0.0	-45.1	INCORRECT COASTAL CR		
180/08:10:58	79 42.5	026 30.0	0372	188.5	092 195	32946 32125	2.4	-1.4	0.1	-44.2	INCORRECT COASTAL CROSSING.		
180/08:11:00	79 42.5	026 29.1	0372	188.8	092 196	32946 32143	2.4	-1.3	0.2	-45.3			
180/08:11:42	79 38.2	026 26.8	0370	189.2	099 193	32976 32727	2.0	0.0	0.1	-46.1	ISSPYNTEN OUTBOUND.		
180/08:12:00	79 36.4	026 25.5	0370	189.0	099 193	32976 32731	2.0	-0.8	0.1	-46.3			

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

TIME	LAT	LONG	GND SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
180/08:13:00	79 23.4	026 21.1	0371	189.3	094	196	32768	32754	2.3	-0.6	0.5	-45.8	
180/08:13:30	79 27.3	026 19.5	0371	189.3	098	197	32972	32737	2.0	-0.6	1.9	-46.3	||| END OF RUN 5 TIME 08.13.29 LAT 7927.3 N LON 02619.5 E FL 329
180/08:14:00	79 24.1	026 17.3	0372	189.4	103	198	32978	32726	2.0	-0.6	1.4	-48.0	
180/08:14:56	79 18.4	026 13.4	0371	187.5	100	196	32993	32776	2.4	-39.4	-0.2	-46.7	STARTED TURN 08 14 51.
180/08:15:00	79 18.2	026 13.1	0372	182.6	100	194	33008	32705	2.5	-23.8	0.1	-46.1	
180/08:16:00	79 13.2	026 35.4	0462	116.4	103	196	32930	32804	2.6	-17.4	0.4	-50.5	
180/08:17:00	79 14.9	027 17.1	0546	062.5	102	200	32954	32851	2.5	-23.0	0.5	-49.1	
180/08:18:00	79 22.9	027 34.7	0545	338.9	110	202	32944	32805	3.3	-30.3	1.6	-48.5	
180/08:19:00	79 28.6	027 04.9	0505	295.9	103	199	32868	32659	2.2	10.9	0.4	-47.1	
180/08:19:54	79 34.0	026 36.3	0505	309.5	089	200	32942	32722	2.2	0.6	1.2	-45.7	90 PERCENT CLOUD COVER BELOW.
180/08:20:00	79 34.6	026 33.8	0505	309.9	088	200	32944	32720	2.2	-0.2	1.2	-45.6	
180/08:20:10	79 35.6	026 28.1	0505	309.8	091	199	32953	32718	2.2	-0.9	-0.1	-44.9	*** START OF RUN 6 TIME 08.20.09 LAT 7935.6 N LON 02628.1 E FL 329
180/08:20:58	79 40.5	026 04.1	0502	308.1	093	199	32962	31862	2.1	-0.7	-0.2	-45.7	08 20 32 COASTAL CROSSING HARTOGSURTA INSURO.
180/08:21:00	79 40.7	026 03.3	0502	307.8	095	200	32970	31797	2.1	-0.5	-0.1	-47.7	
180/08:21:40	79 44.9	025 41.4	0500	307.5	090	199	32942	31032	2.2	-0.5	-0.4	-45.0	BREAK IN CLOUD COVER.
180/08:22:00	79 47.0	025 31.5	0500	307.8	087	199	32980	30679	2.1	-0.4	-0.9	-44.5	
180/08:22:36	79 50.7	025 12.2	0499	308.1	085	197	32958	30288	2.4	-0.8	-0.7	-43.3	CROSSING STRATUS BARS PERPENDICULAR -ANN.
180/08:23:00	79 52.9	025 00.6	0498	308.4	080	197	32980	30342	2.1	-1.0	-0.6	-42.8	
180/08:23:24	79 55.3	024 47.1	0498	308.2	077	201	32989	30416	1.9	-0.6	-0.7	-42.6	||| END OF RUN 6 TIME 08.23.23 LAT 7955.3 N LON 02447.1 E FL 329
180/08:23:44	79 57.5	024 35.3	0494	306.2	085	204	32958	30541	4.7	-27.7	-1.0	-40.8	STARTED TURN 08 23 37.
180/08:24:00	79 58.7	024 26.6	0464	284.5	089	200	33035	30677	2.9	-30.3	-1.2	-42.7	
180/08:24:32	79 59.1	024 05.3	0409	244.2	085	195	32979	30753	2.8	-30.3	-1.4	-43.1	CLOUD COVER 10 TO 15 PERCENT.
180/08:24:40	79 58.7	023 59.5	0397	232.2	083	195	32936	30711	2.7	-29.9	-1.6	-41.9	WHAT LOOKS LIKE CLOUD BELOW IS ICE CAP.
180/08:25:00	79 57.2	023 50.6	0303	209.4	077	198	32916	30465	1.6	-8.8	-1.1	-43.0	
180/08:26:00	79 53.1	023 24.0	0408	245.1	072	203	32934	30372	1.9	10.3	-1.1	-40.9	
180/08:26:06	79 53.1	023 20.7	0412	248.1	072	202	32933	30446	2.3	8.9	-1.0	-41.8	*** START OF RUN 7 TIME 08.26.05 LAT 7953.1 N LON 02320.7 E FL 329
180/08:27:00	79 52.5	022 45.1	0429	259.6	073	200	32955	31817	2.2	1.0	-0.9	-42.0	
180/08:27:08	79 52.3	022 39.1	0430	260.0	072	199	32947	31783	2.4	0.3	-0.6	-41.7	RESTART RUN MARK 08 26 42 - ANN.
180/08:27:16	79 52.3	022 34.5	0430	260.4	072	199	32963	31680	2.3	-0.2	-0.6	-41.1	100 PERCENT CLOUD COVER.
180/08:28:00	79 52.0	022 03.4	0431	260.7	071	200	32964	31541	2.4	-0.6	-0.9	-42.0	
180/08:29:00	79 51.9	021 23.1	0432	260.3	071	201	32970	31220	2.2	-0.6	-1.0	-42.3	
180/08:30:00	79 51.7	020 43.1	0434	260.1	066	200	32957	31466	2.2	-0.7	-1.3	-42.8	
180/08:31:00	79 51.4	020 00.8	0438	259.7	065	199	32967	31408	2.4	-0.9	-1.5	-43.6	
180/08:32:30	00 00.0	000 00.0	0000	000.0	000	000	32964	31411	2.0	-1.1	-0.8	-42.1	
180/08:32:32	00 00.0	000 00.0	0000	000.0	000	000	32969	31403	2.0	-0.7	-0.8	-42.1	AD
180/08:32:50	79 50.6	018 44.8	0445	260.0	052	204	32955	31405	2.1	-0.7	-0.5	-42.4	ADDAS CONN 08 31 36 - BACK UP 08 32 31.
180/08:33:00	79 50.5	018 38.6	0446	259.9	054	204	32975	31924	1.7	-0.8	-0.5	-41.0	
180/08:33:24	79 50.2	018 21.3	0446	259.6	053	201	32958	32464	2.1	-0.8	-0.7	-41.6	CLOUD COVER BECOMING SLIGHTLY PATCHY.
180/08:36:00	79 49.8	017 55.9	0446	259.5	052	202	32967	32516	2.1	-1.1	-1.0	-42.9	||| END OF RUN 7 TIME 08.33.59 LAT 7949.8 N LON 01755.9 E FL 329
180/08:35:00	79 52.3	017 17.7	0490	318.1	045	196	32928	32039	1.8	0.4	-5.0	-42.7	
180/08:36:00	79 58.7	016 48.9	0489	316.0	043	203	32947	32511	2.0	-1.7	-1.6	-43.3	
180/08:36:02	79 58.9	016 48.2	0489	315.9	043	201	32951	32516	2.1	-1.5	-1.4	-41.6	CAMERAS OFF..
180/08:37:00	80 04.9	016 18.0	0488	314.9	038	208	32975	32544	1.8	-0.5	-1.7	-42.0	
180/08:38:00	80 11.1	015 47.3	0485	314.3	039	207	32947	32506	2.2	-0.8	-2.0	-42.3	
180/08:39:00	80 17.0	015 16.2	0481	313.8	037	209	32946	32517	2.2	-1.5	-2.2	-42.8	
180/08:40:00	80 20.7	014 36.9	0454	278.8	038	195	32934	32469	2.2	-5.8	-1.9	-41.1	
180/08:41:00	80 22.1	013 53.9	0449	273.9	035	203	32949	32475	2.4	-0.7	-3.7	-42.8	
180/08:42:00	80 23.1	013 09.7	0450	274.0	035	212	32980	32483	2.2	-0.5	-3.3	-41.4	
180/08:43:00	80 24.1	012 24.0	0451	273.7	032	209	32977	32484	2.1	-1.0	-2.7	-41.4	
180/08:44:00	80 25.1	011 40.4	0453	273.6	029	219	32972	32450	2.0	-0.6	-2.7	-41.3	
180/08:44:22	80 25.3	011 24.0	0453	273.9	024	219	32959	32461	2.0	-0.3	-2.8	-41.8	W/P 7' LON 5 CON L
180/08:44:36	80 25.7	011 12.9	0453	273.5	025	216	32963	32438	2.1	-0.8	-2.6	-42.2	80 25.1N 5 CON W/P 8'.
180/08:45:00	80 25.9	010 55.7	0453	274.0	021	231	32978	32455	1.9	-0.5	-2.8	-40.9	
180/08:45:20	80 26.1	010 40.8	0454	274.1	023	240	32978	32445	2.0	-0.4	-2.8	-40.5	W/P ** LAT 80 20.0N LON 5 CON.
180/08:46:00	80 26.6	010 09.6	0455	273.8	024	242	32976	32421	1.9	-0.9	-2.6	-43.8	
180/08:47:00	80 27.3	009 25.0	0455	272.7	026	241	32967	32407	1.9	-0.6	-2.8	-43.4	
180/08:48:00	80 27.9	008 39.3	0455	272.2	028	246	32971	32433	1.7	-1.3	-3.0	-42.7	
180/08:49:00	80 28.1	007 53.0	0455	271.5	027	248	32954	32364	1.8	-1.1	-2.4	-43.0	
180/08:49:34	80 28.4	007 28.6	0451	271.3	027	248	32953	32324	1.6	-0.7	-2.8	-43.8	ICE EDGE NORTH/SOUTH.
180/08:49:42	80 28.5	007 21.9	0451	271.0	029	246	32958	32323	1.7	-0.9	-2.8	-43.4	COMING UP ON A BREAK IN THE CLOUDS.

YEAR 1994 ADDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

----TIME----	--LAT--	--LONG--	SPD	GRD TRUE HEAD	WIND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
180/08:50:00	80	28.5	007	08.4	0450	270.9	026	247	32968	32328	1.8	-0.8	-2.9	-44.5	
180/08:51:00	80	28.8	006	23.9	0449	270.1	026	247	32961	32327	2.0	-0.9	-2.6	-45.4	
180/08:52:00	80	28.9	005	37.6	0447	269.4	027	249	32964	32327	2.1	-0.9	-2.1	-42.8	
180/08:53:00	80	28.9	004	52.7	0446	268.7	030	248	32955	32326	2.0	-0.8	-2.5	-44.4	
180/08:53:02	80	29.1	004	52.0	0446	268.5	030	244	32966	32314	1.8	-1.3	-2.6	-44.5	LOOSE EDGE , ICE EDGE, 70 PERCENT TO 80 PERCENT ICE CONCENTRATION.
180/08:53:06	80	29.2	004	49.1	0446	268.4	023	245	32958	32322	1.9	-0.8	-2.5	-44.1	STREAMERS AND BANDS.
180/08:54:00	80	28.9	004	09.4	0446	267.6	029	242	32946	32301	2.0	-0.9	-3.2	-45.2	
180/08:55:00	80	28.7	003	25.8	0446	266.1	028	238	32942	32304	2.0	-1.0	-3.0	-47.0	
180/08:56:00	80	28.5	002	39.3	0447	265.6	025	231	32973	32328	2.0	-1.0	-3.4	-45.0	
180/08:56:18	80	28.4	002	26.1	0448	265.8	024	234	32963	32322	2.1	-0.4	-1.7	-44.7	LARGE FLOES, 2 TO 5 MILES FLOES (SMALL) ICE COVER 85 PERCENT.
180/08:56:30	80	28.1	002	16.5	0448	265.9	023	237	32952	32310	2.1	-1.1	-1.9	-43.9	
180/08:57:00	80	28.0	001	55.1	0449	266.1	020	245	32977	32324	1.9	-0.6	-3.3	-44.6	LARGE FLOE IS 20 MILES BY 10 MILES.
180/08:58:00	80	27.7	001	09.4	0450	265.2	023	243	32970	32313	2.0	-0.7	-1.2	-46.4	
180/08:59:00	80	27.1	000	24.6	0451	264.5	023	244	32973	32319	1.7	-0.8	-1.1	-44.9	
180/09:00:00	80	26.5	000	20.5	0451	264.2	024	250	32952	32291	2.0	-1.0	-1.5	-45.0	
180/09:00:10	80	26.4	000	28.5	0451	264.0	022	250	32970	32345	1.8	-0.6	-1.6	-43.2	GLAF IS LOOKING AT THE ICE EDGE.
180/09:00:44	80	25.9	000	33.6	0450	263.5	021	248	32979	32310	1.9	-1.3	-1.8	-45.1	CAMERAS ON AT 09:00:30
180/09:01:00	80	25.8	001	05.4	0450	263.6	028	257	32972	32288	1.9	-0.7	-2.1	-46.9	
180/09:01:12	80	25.7	001	13.6	0450	263.6	025	257	32983	32301	1.6	-1.1	-2.1	-46.9	JUST FLEW OVER AN AREA OF LOW ICE CONCENTRATION. ICE COVER 60%.
180/09:02:00	80	24.8	001	50.0	0450	262.7	028	252	32962	32310	1.8	-0.3	-2.2	-46.5	
180/09:02:10	80	24.7	001	56.7	0450	262.9	025	257	32963	32293	2.0	-0.5	-2.2	-45.0	NO SIGN OF WAVE ACTION BETWEEN THE FLOES.
180/09:02:48	80	24.1	002	20.4	0450	262.4	021	256	32965	32309	2.0	-0.6	-2.3	-43.8	QUITE A BIT OF REFLECTION COMING OFF THE LEADS.
180/09:03:00	80	24.0	002	34.6	0450	262.2	020	252	32965	32300	2.0	-0.8	-2.3	-44.6	
180/09:03:12	80	23.9	002	43.8	0450	262.1	019	249	32967	32293	1.8	-0.6	-2.5	-46.0	ICE CONCENTRATION BACK UP AROUND 80%.
180/09:03:26	80	23.6	002	53.8	0450	262.0	024	256	32950	32281	1.9	-1.0	-2.2	-44.7	ENTERING LIGHT CLOUD BANDS AT LOW ALTITUDE.
180/09:03:42	80	23.3	003	06.3	0451	261.7	022	255	32958	32281	1.8	-1.1	-2.4	-44.6	LOOKS LIKE GREASE ICE. DULL REFLECTION. PER.
180/09:03:54	80	23.0	003	13.6	0451	261.6	020	260	32953	32301	2.1	-0.2	-2.5	-44.2	DOESN'T LOOK LIKE OPEN WATER.
180/09:04:00	80	22.9	003	19.6	0450	261.4	022	256	32974	32286	1.9	-0.5	-2.5	-45.1	
180/09:05:00	80	21.9	004	03.3	0450	261.0	020	259	32965	32291	1.9	-1.2	-2.0	-44.7	
180/09:06:00	80	20.6	004	47.0	0451	260.3	020	256	32942	32281	1.8	-1.0	-2.2	-45.2	
180/09:06:28	80	20.0	005	07.9	0449	257.3	022	247	32999	32343	3.5	-23.5	-1.9	-43.3	AT WAYPOINT 7.
180/09:06:36	80	19.9	005	13.1	0447	269.7	024	242	33076	32412	1.9	-26.7	-2.2	-44.0	PASSING OVER A LARGE AREA OF OPEN WATER.
180/09:07:00	80	18.2	005	27.7	0448	221.6	017	230	33020	32368	1.6	-24.3	-2.3	-43.8	
180/09:07:18	80	16.4	005	36.0	0451	216.0	018	247	32959	32285	2.0	1.5	-2.2	-46.2	
180/09:08:00	80	12.2	005	54.0	0446	229.0	026	269	33034	32423	2.3	31.8	-2.3	-45.3	OPEN WATER ON THE LEED SIDE. PROBABLY GREASE ICE.
180/09:09:00	80	12.5	006	32.3	0452	315.8	021	297	32983	33350	2.0	30.3	-2.5	-45.8	
180/09:10:00	80	19.8	006	37.3	0479	033.8	015	272	32982	33300	0.7	20.0	-2.1	-44.8	
180/09:10:24	80	22.3	006	23.7	0484	049.6	015	248	32907	32264	2.0	19.6	-1.9	-45.3	OUGHT TO BE ABLE TO SEE THE POLAR STERN. SHOULD BE ON STARBOARD SIDE.
180/09:10:50	80	23.8	006	07.1	0484	070.3	013	251	32926	32283	2.1	14.5	-2.0	-45.2	WIND BLOWING NORTHEAST - SOUTHEAST.
180/09:10:58	80	24.1	006	00.4	0484	074.4	016	232	32936	32255	2.0	11.4	-2.0	-44.8	GREASE ICE.
180/09:11:00	80	24.3	005	58.7	0484	075.5	015	260	32942	32257	1.9	10.7	-2.0	-44.3	
180/09:11:18	80	24.6	005	45.0	0482	082.7	014	258	32948	32269	1.9	5.3	-2.0	-45.2	
180/09:12:00	80	25.1	005	11.5	0481	088.2	015	247	32964	32291	1.8	-0.8	-2.1	-44.3	CAN SEE A LEE EFFECT BEHIND THE LARGE FLOES.
180/09:12:04	80	25.1	005	09.3	0481	088.2	013	244	32953	32296	1.8	-0.9	-2.1	-46.1	
180/09:12:10	80	25.1	005	03.3	0481	088.2	014	250	32951	32269	2.0	-0.9	-2.1	-46.0	!!! END OF RUN 8 TIME 09.12.03 LAT 6025.1 N LON 01509.3 W
180/09:12:24	80	25.1	004	52.1	0481	089.4	014	248	32953	32289	1.8	-0.9	-2.0	-46.2	*** START OF RUN 8 TIME 09.12.11 LAT 6025.1 N LON 01503.3 W
180/09:12:30	80	25.2	004	47.7	0481	089.2	015	253	32955	32291	2.1	-0.7	-2.1	-46.7	FL 329
180/09:13:00	80	25.3	004	22.9	0480	088.5	012	248	32966	32315	1.9	-0.7	-2.1	-44.8	FL 329
180/09:13:10	80	25.3	004	16.2	0480	088.5	012	252	32967	32307	1.9	-0.9	-2.4	-44.7	ABOUT TO FLY OVER SOME LOW THIN CLOUDS.
180/09:13:36	80	25.5	004	02.5	0480	088.5	015	254	32956	32294	2.0	-0.4	-2.6	-45.2	ABOVE EN
180/09:14:00	80	25.7	003	35.5	0480	089.4	017	239	32957	32303	2.0	-0.4	-2.7	-45.4	ABOVE END OF RUN IS INCORRECT.
180/09:14:22	80	25.7	003	18.3	0481	089.7	017	242	32960	32299	2.1	-0.1	-2.9	-43.7	START OF RUN IS CORRECT.
180/09:14:58	80	25.8	002	49.1	0483	090.3	017	245	32967	32339	1.8	-0.5	-2.1	-45.4	
180/09:15:00	80	25.8	002	48.0	0483	090.3	016	246	32966	32318	1.9	-0.5	-2.1	-45.3	CANNOT SEE POLAR STERN YET.
180/09:15:28	80	25.8	002	25.2	0484	090.9	016	238	32970	32288	1.9	-0.5	-2.2	-47.0	BEYOND THE POLAR STERN NOW.
180/09:16:00	60	25.8	001	58.5	0486	091.3	017	241	32965	32374	1.8	-0.6	-2.1	-47.1	STILL EXITING THE LOW THIN CLOUDS.
180/09:17:00	80	25.7	001	10.1	0487	092.3	022	244	32957	32305	1.8	-0.8	-2.2	-45.7	
180/09:18:00	80	25.4	000	22.0	0488	093.3	020	237	32956	32297	1.8	-1.1	-1.9	-44.1	
180/09:18:24	80	25.3	000	02.3	0488	093.4	018	233	32979	32305	1.7	-0.7	-1.7	-45.6	LARGE FLOES 5 OR 6 MILES ACROSS, LARGE AREAS OF OPEN WATER BETWEEN THEM.
180/09:18:40	80	25.3	000	09.6	0487	093.8	017	231	32967	32327	1.9	-0.5	-1.2	-44.5	RESTART AFTER DISK WRITE 09 18 22.

YEAR 1984 AOOAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
180/09:18:46	80 25.3	000 15.7	0487	093.9	018	239	32930	32314	1.7	-0.9	-1.5	-45.9	MARE RESTART.
180/09:19:00	80 25.2	000 27.4	0486	094.3	018	226	32948	32307	1.8	-0.6	-1.2	-46.7	
180/09:19:06	80 25.1	000 31.5	0486	094.5	020	222	32951	32304	2.2	6.9	-1.1	-45.7	!!! END OF RUN 8 TIME 09.19.07 LAT 8025.1 N LON 00031.5 E FL 329
180/09:19:26	80 24.6	000 47.0	0474	116.7	029	218	33002	32386	2.8	30.5	-1.3	-45.8	NEW H/P'S.
180/09:19:40	80 23.7	000 57.2	0464	136.2	032	222	33006	32397	2.1	30.4	-1.4	-45.6	H/P 8" 80-25 5M.
180/09:19:54	80 22.3	001 03.4	0453	157.8	034	229	33005	32379	2.2	30.6	-1.7	-43.5	H/P 1" 80-25 0-30.6E.
180/09:20:00	80 21.7	001 04.8	0450	164.9	034	232	32991	32377	2.3	30.6	-1.7	-43.8	
180/09:20:06	80 20.9	001 05.7	0447	173.4	033	233	32985	32369	2.4	30.5	-1.8	-44.4	H/P 2" 80-20 0-30.8.
180/09:20:22	80 19.1	001 05.9	0439	196.1	034	236	32989	32378	2.1	30.4	-1.6	-43.5	H/P 3" 79-30 0-27.2E.
180/09:20:30	80 18.0	001 03.5	0436	208.7	033	237	32980	32368	2.3	29.7	-1.5	-45.6	H/P 4/2 70-30 6-30E.
180/09:21:00	80 15.4	000 50.4	0437	225.4	027	221	32894	32275	2.3	-11.2	-1.3	-45.2	
180/09:21:16	80 13.9	000 43.1	0436	215.9	024	218	32927	32327	2.2	-17.2	-1.4	-46.2	CROSSING LARGE FLOES, 1 TO 2 MILES OPEN WATER BETWEEN THEM.
180/09:21:30	80 12.4	000 37.7	0436	206.3	025	215	32941	32319	2.3	-15.6	-1.3	-46.2	50 TO 60 PERCENT ICE CONCENTRATION, PROBABLY GREASE ICE IN THE LEADS.
180/09:22:00	80 09.0	000 30.9	0440	191.3	022	223	32937	32324	2.0	-8.7	-1.5	-45.0	
180/09:22:42	80 03.9	000 28.6	0443	183.8	024	222	32954	32354	2.1	-2.3	-1.4	-45.7	*** START OF RUN 9 TIME 09.22.43 LAT 8003.9 N LON 00028.6 E FL 329
180/09:23:00	80 01.6	000 28.1	0443	182.9	022	221	32958	32377	1.9	-1.4	-1.4	-45.6	
180/09:23:20	79 59.3	000 28.4	0444	182.6	025	219	32961	32365	1.9	-1.2	-1.7	-43.5	OVER SMALLER BROKEN PIECES OF ICE, 1/2 MILE SIZE.
180/09:23:34	79 57.5	000 28.0	0445	182.6	026	219	32970	32361	2.0	-0.9	-1.0	-43.6	60 PERCENT OR LESS ICE CONCENTRATION.
180/09:24:00	79 54.4	000 27.9	0446	182.5	025	219	32968	32356	2.0	-0.9	-1.1	-45.1	
180/09:25:00	79 46.8	000 27.5	0447	182.5	023	220	32967	32361	2.0	-0.7	-1.6	-44.8	
180/09:25:46	79 41.3	000 27.1	0447	183.0	025	219	32970	32364	2.0	-1.3	-1.5	-45.6	LARGE AREA OF OPEN WATER, 2 MILES ACROSS, COMING UP ON LARGE MULTIYEAR FLOE.
180/09:26:00	79 39.5	000 26.6	0448	182.8	025	217	32972	32376	1.9	-1.0	-0.9	-45.5	
180/09:26:08	79 38.6	000 26.5	0448	182.6	025	219	32973	32368	2.2	-6.5	-0.9	-46.7	!!! END OF RUN 9 TIME 09.26.07 LAT 7938.6 N LON 00026.5 E FL 329
180/09:27:00	79 32.8	000 40.9	0464	120.8	015	212	32936	32356	2.3	-18.4	-1.6	-46.0	
180/09:27:26	79 31.2	000 57.7	0470	108.9	017	215	32956	32387	2.0	-16.8	-1.4	-46.4	THIN STRATUS, LOW CLOUDS.
180/09:28:00	79 30.7	001 21.8	0477	093.9	020	220	32933	32373	1.9	-6.6	-1.2	-47.5	OPEN WATER, HIGH DENSITY, 3 OR 5 MILES SMALLER FLOES, SEVERAL HUNDRED YARDS ACRO
180/09:28:06	79 30.6	001 25.4	0477	092.8	018	218	32933	32365	2.0	-4.8	-0.9	-47.2	WELL DEFINED ICE EDGE.
180/09:28:42	79 30.6	001 52.1	0478	090.2	017	222	32937	32343	1.9	-1.2	-5.1	-45.0	ICE EXTENDING TO THE EAST.
180/09:28:56	79 30.6	002 01.8	0477	090.1	017	219	32962	32371	1.8	-1.1	-2.1	-44.1	HOOKS TO THE NORTH.
180/09:29:00	79 30.7	002 04.7	0477	090.2	016	213	32958	32377	1.9	-0.7	-1.6	-45.2	
180/09:29:20	79 30.7	002 19.2	0476	090.0	015	217	32958	32422	1.8	-0.6	-0.1	-47.4	WAVE MOTION IN THE WATER - ALOT.
180/09:30:00	79 30.7	002 47.5	0476	091.5	022	218	32960	32459	2.0	-0.7	1.8	-47.1	
180/09:30:20	79 30.7	003 01.4	0476	091.7	023	218	32957	32423	1.9	-0.7	-0.1	-46.1	*** START OF RUN 10 TIME 09.30.21 LAT 7930.7 N LON 00303.4 E FL 329
180/09:30:56	79 30.7	003 27.9	0476	092.3	024	218	32962	32446	1.9	-0.4	-1.8	-45.1	CLOUD COVER.
180/09:31:00	79 30.7	003 32.0	0475	092.4	023	216	32961	32466	1.9	-0.6	-1.6	-44.9	
180/09:31:30	79 30.7	003 53.0	0475	092.3	020	222	32965	32459	2.0	-0.5	-1.9	-45.4	DID MISS NORTH HOOK ON THE ESMR.
180/09:32:00	79 30.7	004 14.6	0474	092.8	021	217	32976	32450	1.8	-0.9	-1.5	-45.5	
180/09:33:00	79 30.7	004 58.0	0475	093.6	021	222	32954	32491	2.2	-0.4	-1.0	-45.9	
180/09:34:00	79 30.4	005 41.7	0474	094.3	020	216	32953	32475	2.1	-1.1	-1.8	-44.0	
180/09:35:00	79 29.9	006 24.8	0475	095.1	020	219	32972	32484	1.9	-0.4	-1.2	-45.0	
180/09:35:06	79 30.0	006 28.5	0475	095.2	021	219	32967	32485	1.7	2.1	-1.0	-45.2	!!! END OF RUN 10 TIME 09.35.07 LAT 7929.9 N LON 00529.5 E FL 329
180/09:36:00	79 27.0	007 00.4	0446	156.5	030	214	32996	32526	1.8	23.4	-3.2	-46.1	
180/09:37:00	79 19.8	007 13.8	0446	163.5	024	203	32953	32497	1.9	-1.4	-2.9	-45.5	
180/09:38:00	79 12.9	007 26.3	0446	164.2	027	204	32961	32519	1.9	-0.5	-3.1	-44.6	
180/09:38:54	79 06.6	007 37.3	0446	164.3	025	200	32941	32486	2.0	-0.6	-3.2	-45.0	CAMERAS OFF AT 09 39 00.
180/09:39:00	79 05.9	007 38.4	0446	164.3	024	199	32967	32481	2.0	-0.1	-3.2	-44.6	
180/09:40:00	78 58.7	007 50.3	0445	162.8	025	195	32965	32524	1.8	-1.6	-3.1	-45.6	
180/09:41:00	78 51.8	008 02.6	0445	164.6	026	193	32969	32553	1.7	-0.3	-5.5	-43.5	
180/09:42:00	78 44.6	008 13.9	0445	163.8	027	189	32934	32536	1.6	-1.3	-2.6	-46.8	
180/09:43:00	78 37.6	008 25.5	0446	164.6	030	194	32965	32532	1.7	-1.1	-3.1	-45.6	
180/09:44:00	78 30.6	008 36.9	0448	163.5	028	193	32974	32546	1.7	-0.8	-2.8	-47.9	
180/09:45:00	78 23.4	008 48.8	0447	163.2	031	184	32944	32505	1.8	-0.9	-3.3	-44.8	
180/09:46:00	78 16.5	009 00.2	0445	163.6	031	183	32975	32514	1.8	-0.8	-3.2	-49.3	
180/09:47:00	78 09.5	009 10.9	0439	163.8	030	185	32952	32538	1.7	-0.8	-3.3	-50.1	
180/09:48:00	78 02.7	009 21.6	0434	163.2	030	188	32961	32534	1.9	-0.9	-3.6	-50.6	
180/09:49:00	77 55.8	009 32.2	0432	163.4	029	177	32965	32557	1.9	-0.6	-3.1	-52.1	
180/09:50:00	77 48.9	009 42.2	0431	163.6	027	179	32968	32575	2.0	-0.9	-3.0	-51.3	
180/09:51:00	77 42.2	009 52.3	0430	163.8	025	181	32954	32600	2.0	-1.0	-2.2	-48.9	
180/09:52:00	77 35.3	010 02.0	0429	162.8	031	159	32931	32603	1.7	-0.6	-1.9	-47.6	
180/09:53:00	77 28.6	010 11.6	0429	163.1	029	160	32962	32628	1.9	-0.7	-1.0	-48.0	

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YEA- 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

----TIME----	--LAT--		--LONG--		GRD SPD	TRUE HEAD	-WIND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
180/09:54:00	77	21.8	010	20.6	0428	162.9	030	158	32957	32598	2.0	-0.5	-1.3	-47.3	
180/09:55:00	77	14.8	010	30.1	0426	162.7	030	151	32962	32640	2.0	-0.8	-0.7	-47.1	
180/09:56:00	77	08.1	010	39.4	0427	163.0	033	154	32961	32589	2.0	-1.0	-0.9	-49.1	
180/09:57:00	77	01.3	010	47.7	0428	163.0	031	151	32974	32615	1.8	-0.7	-1.3	-48.6	
180/09:58:00	76	54.4	010	56.8	0428	162.7	029	146	32944	32602	1.9	-0.9	-2.2	-46.8	
180/09:59:00	76	47.6	011	05.6	0431	162.5	030	140	32970	32584	1.8	-1.2	-7.9	-46.7	
180/10:00:00	76	40.7	011	13.9	0434	162.8	027	145	32979	32601	1.7	-0.9	-5.4	-48.3	
180/10:01:00	76	33.6	011	22.9	0437	162.9	028	143	32965	32607	1.9	-1.0	-2.5	-48.3	
180/10:01:54	76	27.4	011	30.2	0439	163.3	028	143	32942	32579	1.9	-0.7	-2.2	-47.7	@ 180 10.01.53 ADDAS TAPES SWITCHED, EOT
180/10:02:00	76	26.6	011	31.1	0439	163.4	028	143	32954	32572	1.8	-0.8	-2.2	-44.8	
180/10:03:00	76	19.7	011	39.1	0440	163.4	032	146	32967	32567	1.8	-0.7	-4.2	-46.3	
180/10:04:00	76	12.7	011	47.6	0440	163.2	031	140	32974	32599	1.8	-0.8	-2.9	-47.7	
180/10:05:00	76	05.6	011	55.4	0439	163.6	032	147	32964	32585	1.6	-0.7	-2.8	-47.6	
180/10:06:00	75	58.7	012	03.0	0437	163.5	036	146	32961	32581	1.7	-0.8	-3.0	-45.5	
180/10:07:00	75	51.6	012	10.7	0435	163.9	033	147	32951	32573	1.8	-0.6	-3.1	-45.4	
180/10:08:00	75	44.6	012	18.2	0434	164.0	032	147	32969	32600	1.6	-1.4	-2.6	-47.0	
180/10:09:00	75	37.6	012	25.8	0432	163.5	035	142	32958	32577	1.8	-1.1	-2.7	-45.4	
180/10:10:00	75	30.6	012	32.9	0431	163.8	036	144	32965	32569	1.8	-0.9	-3.0	-45.2	
180/10:11:00	75	23.7	012	40.2	0432	164.0	035	145	32965	32569	1.5	-0.7	-3.3	-47.0	
180/10:12:00	75	16.9	012	47.1	0431	164.1	033	144	32959	32569	1.6	-0.9	-2.3	-48.2	
180/10:13:00	75	09.7	012	54.3	0431	164.6	035	148	32973	32592	1.6	-1.1	-2.1	-45.1	
180/10:14:00	75	02.8	013	00.9	0432	164.5	036	148	32952	32579	1.5	-0.7	-1.6	-46.1	
180/10:15:00	74	56.0	013	07.3	0431	164.7	036	149	32965	32579	1.8	-0.7	-2.4	-45.9	
180/10:16:00	74	49.0	013	14.2	0430	165.0	037	152	32973	32555	1.7	-0.8	-2.2	-45.2	
180/10:17:00	74	42.1	013	20.6	0429	165.1	034	151	32984	32578	1.6	-0.7	-2.3	-45.7	
180/10:18:00	74	35.3	013	26.8	0429	165.2	036	149	32966	32554	1.9	-0.5	-1.9	-46.2	
180/10:19:00	74	28.1	013	33.3	0428	165.4	035	151	32974	32538	1.9	-0.7	-2.9	-45.9	
180/10:20:00	74	21.4	013	39.4	0428	165.5	036	153	32964	32514	1.8	-0.9	-3.2	-44.9	
180/10:21:00	74	14.5	013	45.4	0427	165.9	038	157	32967	32536	1.9	-0.8	-2.8	-46.6	
180/10:22:00	74	07.4	013	51.4	0427	165.5	037	153	32962	32549	1.6	-0.6	-3.0	-45.2	
180/10:23:00	74	00.7	013	57.3	0427	165.6	036	149	32958	32508	1.9	-0.7	-3.8	-44.3	
180/10:24:00	73	53.9	014	02.9	0426	165.7	036	150	32958	32515	1.9	-0.5	-4.1	-44.5	
180/10:25:00	73	46.8	014	08.8	0426	165.7	036	149	32971	32503	1.8	-0.7	-3.9	-43.5	
180/10:26:00	73	39.8	014	14.5	0427	165.8	037	150	32958	32500	1.8	-0.[illegible]	-3.9	-45.3	
180/10:27:00	73	33.0	014	20.0	0428	165.5	037	147	32962	32495	1.8	-0.6	-2.8	-43.9	
180/10:28:00	73	26.0	014	25.7	0429	165.8	037	147	32973	32463	1.3	-1.1	-3.0	-43.3	
180/10:29:00	73	19.[illegible]	014	31.1	0429	166.3	037	153	32963	32469	1.6	-0.8	-2.0	-45.2	
180/10:30:00	73	12.2	014	36.7	0430	166.3	038	152	32964	32479	1.7	-0.5	-1.5	-44.3	
180/10:31:00	73	05.0	014	42.1	0430	166.0	038	147	32965	32474	1.7	-0.7	1.9	-43.1	
180/10:32:00	72	58.2	014	47.2	0430	166.0	038	146	32960	32431	1.6	-0.7	-3.1	-45.0	
180/10:33:00	72	51.2	014	52.1	0430	165.9	038	147	32960	32441	1.8	-0.7	-2.8	-44.8	
180/10:34:00	72	44.1	014	57.5	0431	166.2	039	147	32951	32424	1.6	-0.6	-2.6	-44.0	
180/10:35:00	72	37.1	015	02.7	0430	166.1	041	146	32966	32416	1.6	-0.7	-2.6	-44.4	
180/10:36:00	72	30.2	015	07.6	0430	166.3	040	148	32961	32419	1.7	-0.6	-3.7	-44.9	
180/10:37:00	72	23.1	015	12.4	0431	166.4	036	147	32956	32429	1.5	-1.1	-4.1	-43.5	
180/10:38:00	72	16.2	015	17.3	0432	166.9	035	150	32957	32393	1.7	-0.7	-4.0	-44.0	
180/10:39:00	72	09.4	015	21.9	0432	167.0	034	152	32968	32406	1.7	-0.9	-3.3	-44.8	
180/10:40:00	72	02.1	015	26.7	0433	167.1	033	151	32971	32412	1.6	-0.6	-4.3	-44.9	
180/10:41:00	71	55.0	015	27.2	0453	200.7	036	147	30808	30162	-2.8	22.4	-3.8	-43.9	
180/10:42:00	71	48.9	015	12.8	0477	215.6	016	155	26547	25882	-5.4	-2.1	-3.5	-44.2	
180/10:43:00	71	43.1	015	04.8	0350	133.8	043	123	27553	26957	-22.9	-28.4	-4.0	-46.4	
180/10:44:00	71	38.8	015	23.1	0424	127.1	022	143	22908	22449	-2.1	-0.4	-2.9	-33.6	
180/10:45:00	71	34.7	015	40.0	0400	139.0	016	148	20481	20112	-1.9	13.9	-1.8	-30.4	
180/10:46:00	71	28.7	015	48.8	0396	165.9	011	164	19934	19628	1.3	2.6	-2.1	-27.8	
180/10:47:00	71	22.1	015	52.9	0405	168.7	013	163	19999	19613	1.1	-1.2	-1.6	-28.4	
180/10:48:00	71	15.7	015	57.1	0409	168.3	014	153	19999	19606	0.9	-0.7	-1.6	-27.6	
180/10:49:00	71	08.8	015	59.8	0413	177.5	015	156	19991	19595	0.9	1.6	-1.4	-28.3	
180/10:50:00	71	02.0	015	59.9	0408	179.5	016	163	19989	19593	1.1	-0.6	-1.5	-28.6	
180/10:51:00	70	55.3	015	59.6	0401	179.4	015	166	19987	19593	1.0	-0.7	-0.6	-27.5	
180/10:52:00	70	48.5	016	00.2	0396	177.1	018	158	19992	19612	1.1	-0.9	-1.0	-28.7	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 11 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	--TEMP-- IR	AIR	
180/10:53:00	70 42.0	016 01.1	0392	176.8	019	164	19990	19591	1.2	-0.5	-0.7	-29.8	
180/10:54:00	70 35.7	016 01.9	0390	177.0	018	161	19991	19623	1.1	-0.6	-4.2	-29.4	
180/10:55:00	70 29.3	016 04.1	0386	182.8	021	152	19999	19619	0.9	-10.9	-4.8	-28.1	
180/10:56:00	70 23.3	016 09.0	0386	181.6	020	166	19959	19601	1.3	-2.9	1.2	-29.4	
180/10:57:00	70 17.0	016 08.7	0382	179.5	018	169	19969	19600	1.4	-0.5	-0.6	-27.8	
180/10:58:00	70 10.5	016 08.0	0378	182.5	017	176	19990	19606	1.5	-0.1	-4.5	-27.8	
180/10:59:00	70 04.5	016 07.1	0377	182.1	018	167	19993	19615	1.4	-2.3	-5.0	-28.5	
180/11:00:00	69 58.4	016 06.7	0376	179.9	019	157	19995	19603	1.4	-0.4	0.4	-29.8	
180/11:01:00	69 51.8	016 06.6	0376	178.7	019	154	19997	19638	1.4	-0.6	2.4	-27.5	
180/11:01:34	69 48.4	016 06.6	0376	178.6	018	152	19999	19618	1.3	-0.7	2.3	-27.2	SOLID CLOUDS UNDERNEATH US.
180/11:02:00	69 45.6	016 06.4	0377	179.8	018	153	19997	19594	1.3	-0.7	2.1	-27.4	
180/11:03:00	69 39.4	016 06.2	0378	179.7	017	150	19995	19622	1.3	-0.9	1.5	-28.6	
180/11:04:00	69 33.0	016 05.7	0378	179.7	018	152	19999	19624	1.3	-0.3	2.3	-30.8	
180/11:05:00	69 26.7	016 05.5	0379	178.2	021	133	19986	19611	1.3	-0.7	2.5	-28.5	
180/11:05:16	69 25.1	016 05.5	0379	178.2	021	136	19994	19579	1.5	-0.4	2.2	-28.1	*** START OF RUN 11 TIME 11.05.17 LAT 6924.7 N LON 01605.5 E FL 199
180/11:06:00	69 20.6	016 05.5	0379	176.9	023	138	19991	19611	1.4	1.6	2.2	-28.7	
180/11:06:38	69 16.6	016 05.4	0380	179.6	023	141	19999	19793	1.1	-1.0	1.3	-27.7	FIRST REFLECTOR.
180/11:07:00	69 14.2	016 05.2	0380	178.3	022	141	19985	19210	1.3	-2.1	1.7	-28.1	
180/11:07:16	69 12.5	016 05.2	0379	178.1	024	145	19996	19263	1.2	-0.6	2.3	-28.2	SECOND REFLECTOR.
180/11:07:54	69 08.4	016 05.0	0380	179.6	024	135	19999	19460	1.3	-0.3	4.1	-29.0	THIRD REFLECTOR.
180/11:08:00	69 08.0	016 04.9	0380	179.5	024	135	19993	19469	1.2	-1.2	3.4	-29.9	
180/11:09:00	69 01.6	016 04.3	0373	179.4	026	140	19967	19561	1.5	-1.0	3.0	-29.7	
180/11:09:14	69 00.2	016 04.3	0358	179.2	027	142	19956	19581	2.0	-0.9	2.2	-29.1	!!! END OF RUN 11 TIME 11.09.15 LAT 6900.1 N LON 01604.3 E FL 199
180/11:10:00	68 56.0	016 06.6	0330	151.4	023	133	18831	18522	-2.2	1.2	-0.8	-26.7	
180/11:11:00	68 51.1	016 13.7	0345	152.5	016	126	15092	14790	-4.1	-0.9	2.8	-17.9	
180/11:12:00	68 46.2	016 20.2	0326	153.8	017	123	12775	11839	-2.2	-1.0	0.8	-11.6	
180/11:13:00	68 41.3	016 26.5	0307	155.9	017	123	10320	9747	1.6	-1.0	-3.6	-9.2	
180/11:14:00	68 36.9	016 28.2	0278	215.2	009	084	10077	9045	0.6	17.6	-4.1	-0.8	
180/11:15:00	68 33.4	016 19.6	0276	220.2	015	088	8628	8376	-0.3	-0.9	1.2	-4.8	
180/11:16:00	68 29.6	016 12.7	0269	202.5	016	076	7158	6917	0.3	-1.0	4.4	-3.4	
180/11:17:00	68 25.7	016 07.7	0257	201.9	020	078	6159	5948	3.6	-0.1	9.7	-2.0	
180/11:18:00	68 22.0	016 02.1	0254	208.2	022	075	6186	5956	3.9	-1.1	10.5	-0.5	
180/11:19:00	68 18.3	015 55.7	0256	209.8	018	079	5566	5360	1.1	1.9	11.2	1.6	

3.9 Eighth Data Flight—Day 182—Evenes RT

All instruments were operational. The weather was exceptionally clear, permitting excellent photographic coverage.

The original flight plan consisted of five 17-minute legs running east/west, starting at the north at 79° 29.8 'N, 5° 57.1 'E, and separated by 10 nm. This was to permit intersection with the predicted position of the Polarstern as of 2400 Z on 29 June. At the end of the fifth leg, the plan was to take a bearing of 315 degrees for a transect into heavy multiyear ice, but that had to be aborted in favor of extending legs one and two to 10° 50 'W in order to intersect with the actual position of the Polarstern as she was struggling through heavy ice at 79° 24 'N, 10° 42 'W at 0733 GMT.

The 'head of the running dog' eddy encountered four days earlier was no longer recognizable. Indeed, the ill-defined edge of the ice pack was far to the west—at 2° W. A rather complicated eddy structure was present in the MIZ at this point. Location of the major eddy feature was radioed (by request) to Ola Johannessen onboard the Polarstern.

Multiyear ice signatures were indeed encountered, but not in compact ice. This was disappointing from the point-of-view of radiometry, but certainly not from the standpoint of ice dynamics.

This was our final data flight with the CV-990. We had hoped also to do a north-south transect of the East Greenland Sea sea ice on the way to Sondrestromfjord, but this had to be aborted since our long-standing reservations for overnighting there were suddenly cancelled just yesterday, for some cause not yet determined. This was particularly disappointing to us, since the last-minute changes required in today's flight precluded looking at the more compact multiyear ice to the south.

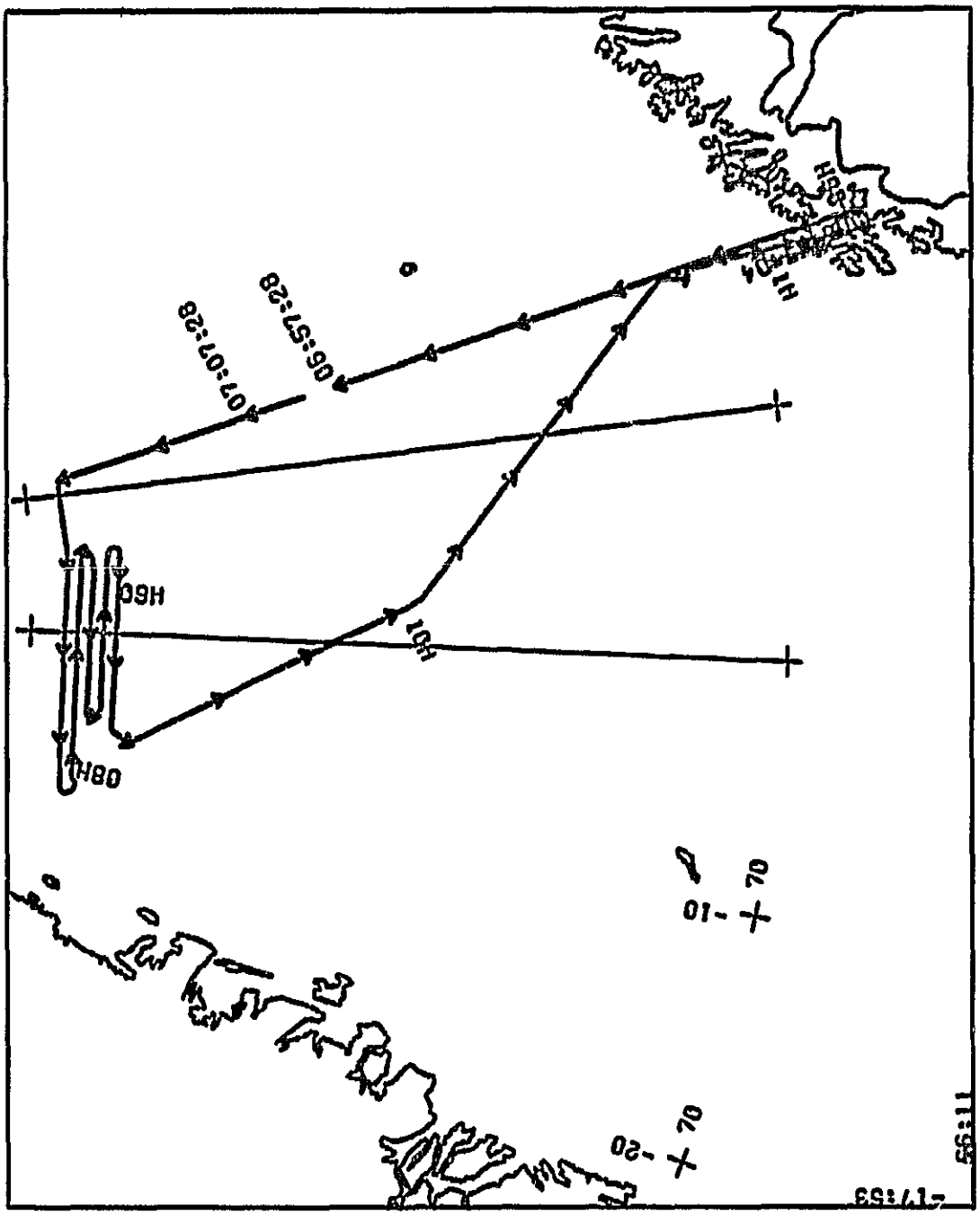

Figure 23. Flight tracks: Evenes RT 6/29

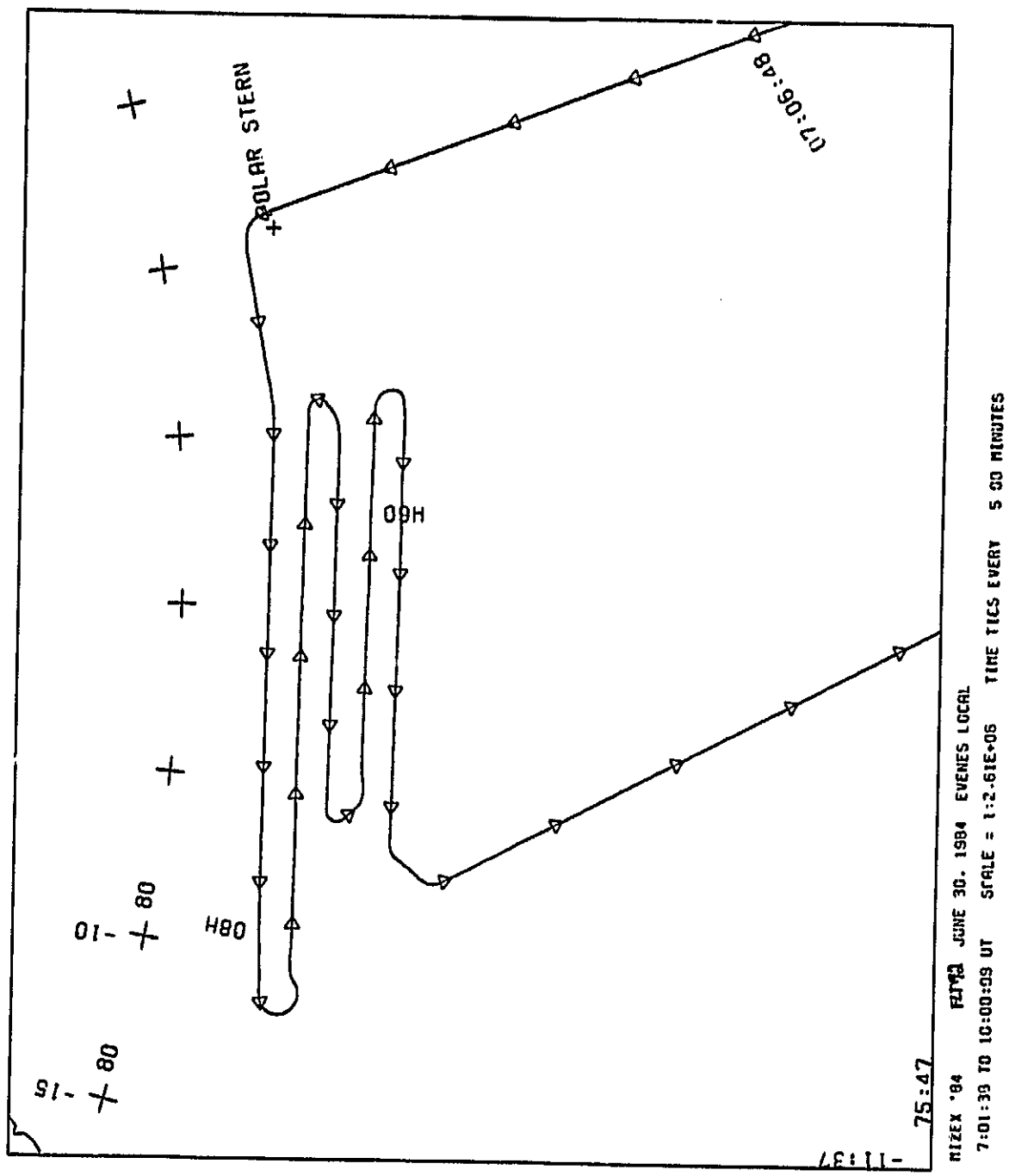

Figure 24. Mosaic pattern: 6/29

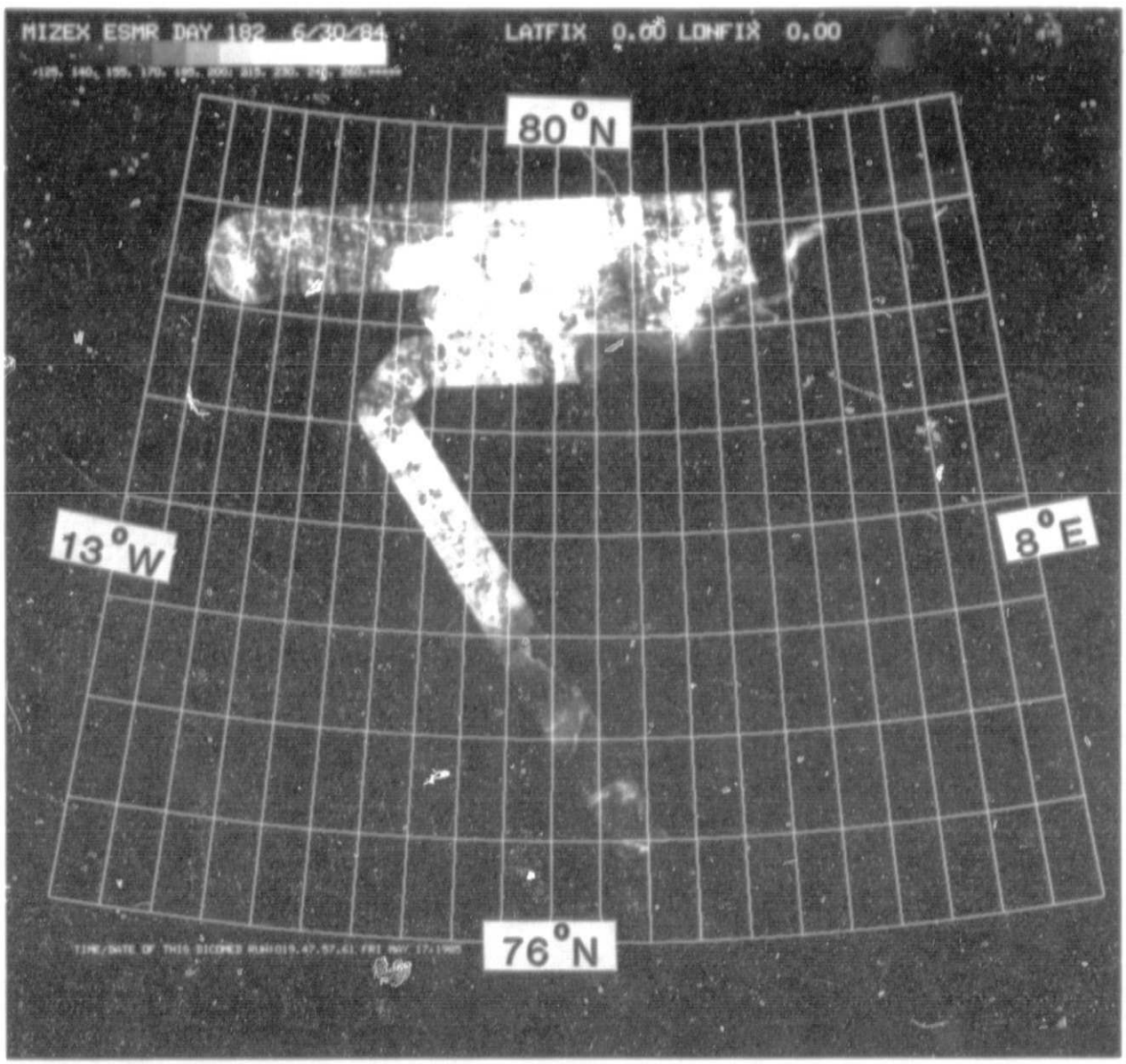

Figure 25. ESMR mosaic: 6/29

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 12 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
182/05:56:46	00	00.0	000	00.0	0000	000.0	000	000	206	146	-0.9	0.4	29.0	7.6	
182/05:57:00	68	28.7	016	40.9	0019	177.0	099	177	204	145	-1.0	0.3	28.0	7.2	
182/05:58:00	68	28.7	016	40.8	0023	356.1	095	356	223	145	-0.4	-0.5	24.6	6.7	
182/05:59:00	68	30.7	016	40.7	0170	357.5	087	292	1022	382	14.5	0.9	21.4	4.1	
182/06:00:00	68	33.9	016	41.0	0224	001.8	002	000	2705	2043	10.5	-1.2	12.7	-0.1	
182/06:01:00	68	38.0	016	41.3	0263	359.8	006	315	4907	4150	6.7	-1.1	1.0	-0.4	
182/06:02:00	68	42.7	016	41.3	0313	358.3	015	315	6614	6301	6.4	0.3	-0.1	-2.8	
182/06:03:00	68	48.0	016	40.3	0328	348.0	014	295	8350	8574	6.9	0.4	-2.0	-6.1	TAKE OFF TIME 05 53 36
182/06:03:08	68	48.8	016	40.0	0328	349.0	014	295	9241	8916	6.3	1.0	-2.2	-6.6	JULIAN DAY
182/06:03:16	68	49.3	016	39.6	0329	349.5	014	299	9544	9219	6.3	1.3	-2.2	-6.4	JULIAN DAY 182
182/06:03:20	68	49.8	016	39.6	0330	349.9	014	299	9697	9374	6.3	1.5	-1.0	-8.2	JULY 20, 1984
182/06:03:28	68	50.5	016	39.3	0331	350.5	014	299	10000	9694	6.2	0.9	-2.0	-7.5	FLIGHT 12
182/06:03:32	68	50.9	016	39.1	0332	350.9	012	301	10158	9857	5.7	1.3	-2.1	-8.3	EVENTS/EVENTS.
182/06:04:00	68	53.4	016	38.2	0338	352.2	011	303	11162	10745	6.0	0.3	-1.7	-9.4	
182/06:04:02	68	53.7	016	38.2	0338	352.3	011	304	11235	10915	6.0	0.2	-1.7	-10.2	H/P 1 70-59.3 16-00.9E L/O
182/06:04:10	68	54.4	016	38.0	0339	352.5	011	310	11557	11197	6.3	0.6	-2.1	-9.7	H/P 2 75-16.5 16-14.1E
182/06:04:22	68	55.5	016	37.6	0340	352.9	012	320	12015	11607	6.2	0.4	0.9	-11.3	H/P 3 79-33.3 11-02.9E
182/06:04:32	68	56.4	016	37.4	0340	353.4	009	327	12424	12059	5.8	0.2	2.9	-12.2	H/P 4 79-29.8 5-32.9E
182/06:04:46	68	57.8	016	37.0	0344	353.4	011	325	12863	5032	5.8	0.0	-2.0	-13.5	H/P 5 79-29.8 5-57.1N
182/06:04:56	68	58.8	016	36.8	0346	353.6	011	325	13213	12860	5.5	0.0	-2.1	-12.6	H/P 6 79-19.9 -26.9E
182/06:05:00	68	59.1	016	36.6	0347	353.6	010	316	13346	12992	5.5	-0.1	-2.0	-14.5	
182/06:05:32	69	02.2	016	35.7	0355	353.4	007	315	14348	13936	4.5	0.0	-2.4	-16.5	CORRECTION: H/P 6 79-19.8 6-03.1N
182/06:05:46	69	03.4	016	35.6	0359	353.1	010	309	14773	14395	5.6	-0.1	-2.3	-16.3	H/P 7 79-19.8 5-26.9E
182/06:05:56	69	04.5	016	35.2	0360	353.6	007	315	15099	14724	4.9	0.1	-2.3	-16.0	H/P 8 79-09.9 5-21.1E
182/06:06:00	69	04.9	016	35.0	0361	353.5	003	315	15204	14839	4.7	0.3	-2.7	-15.9	
182/06:06:08	69	05.9	016	34.8	0365	353.7	004	301	15289	15022	4.5	0.1	-2.2	-16.6	H/P 1' 79-09.9 6-03.5N
182/06:06:20	69	07.0	016	34.3	0369	354.0	002	251	15697	15326	4.8	0.2	-3.6	-17.2	H/P 2' 79-59.9 6-14.5N
182/06:06:30	69	08.1	016	34.1	0371	353.8	003	259	15991	15605	4.7	0.2	-2.9	-18.0	H/P 32' 79-59.9 5-15.9E
182/06:06:48	69	09.7	016	33.6	0377	353.8	004	239	16465	16092	5.2	0.2	-3.6	-19.9	H/P 4' 79-59.0 5-10.0E
182/06:07:00	69	11.1	016	33.2	0379	354.0	002	225	16849	16465	5.2	0.1	-4.2	-20.0	
182/06:07:06	69	11.8	016	33.2	0379	353.9	002	251	17048	16662	5.6	-0.1	-4.4	-21.7	H/P 5' 79-59.0
182/06:07:36	69	15.0	016	32.2	0387	353.8	006	193	17833	17451	4.7	0.4	-5.5	-19.7	H/P 5' 79-59.0 6-29.0N
182/06:07:52	69	16.4	016	31.6	0390	353.8	006	206	18290	17902	5.0	0.0	-5.8	-23.2	H/P 6' 79-42.4 11-14.0W.
182/06:08:00	69	17.5	016	31.5	0391	353.9	006	193	18535	18143	4.9	0.0	-5.7	-23.9	
182/06:08:06	69	18.2	016	31.3	0392	353.8	006	193	18705	18314	5.1	-0.2	-5.6	-22.9	H/P 7' 77-23.1 14-28.6W
182/06:08:18	69	19.5	016	30.8	0393	353.8	006	193	19071	18666	4.7	0.0	-5.7	-26.6	H/P 8' 75-09.5 2-05.7E
182/06:08:36	69	21.4	016	30.4	0397	353.6	007	201	19556	19142	4.7	0.4	-5.8	-26.1	H/P 1" 71-14.1 16-00.1E IP
182/06:08:46	69	22.3	016	29.9	0398	353.7	006	215	19818	19420	4.9	0.2	-5.4	-27.4	H/P 2" 69-17.5 16-00.1E
182/06:08:56	69	23.6	016	29.6	0400	353.8	009	193	20110	19713	4.3	0.2	-5.9	-27.8	H/P 3" 69-11.1 16-00.1E
182/06:09:00	69	23.9	016	29.6	0401	353.7	003	204	20203	19799	4.1	0.4	-6.0	-26.8	
182/06:09:06	69	24.7	016	29.3	0403	353.8	003	193	20332	19942	4.5	0.2	-6.1	-28.6	H/P 9 69-29.5 16-40.7E
182/06:09:24	69	26.7	016	28.8	0406	353.6	010	196	20791	20380	3.9	-0.2	-5.8	-29.3	H/P 4" 69-47.5 16-39.1E HARSA
182/06:09:36	69	27.9	016	28.5	0410	353.4	012	196	21044	20654	4.4	0.1	-5.6	-28.8	H/P 52 69-35.9 16-40.9E FS
182/06:09:54	69	30.0	016	27.9	0412	353.7	010	196	21538	21120	4.3	0.5	-5.7	-30.3	CORRECTION: H/P 5" ABOVE.
182/06:10:00	69	30.8	016	27.4	0413	354.0	012	173	21672	21254	4.1	0.2	-5.7	-31.6	
182/06:10:12	69	32.1	016	27.1	0415	354.2	007	174	21907	21551	4.9	0.3	-5.9	-31.8	H/P 6" 69-27.5 16-41.2E EVU
182/06:10:30	69	34.1	016	26.7	0417	354.7	012	159	22437	22012	4.1	0.2	-5.7	-33.9	H/P 7" 69-22.1 15-56.7E RTV.
182/06:11:00	69	37.6	016	25.7	0424	355.1	012	139	23090	22659	4.1	0.0	-5.2	-35.8	
182/06:11:42	69	42.5	016	24.3	0433	356.0	022	137	23939	23426	3.6	-0.1	-1.9	-26.3	ADDAS IS HAVING PROBLEMS WITH EXEC SYSTEM.
182/06:12:00	69	44.5	016	23.7	0437	357.5	029	121	24252	23791	4.2	0.1	-0.2	-36.8	
182/06:13:00	69	52.3	016	21.8	0447	359.9	041	114	25304	24943	4.2	-1.6	0.6	-36.6	
182/06:14:00	69	59.5	016	19.6	0459	000.1	050	115	26373	25919	3.2	-0.9	5.7	-40.0	
182/06:15:00	70	07.4	016	17.3	0473	000.7	055	123	27133	26673	3.3	-0.3	4.1	-39.0	
182/06:16:00	70	15.4	016	15.0	0482	001.8	074	117	28012	27576	3.1	-0.7	1.0	-39.1	
182/06:17:00	70	23.3	016	12.5	0483	002.2	074	116	28873	28447	4.0	-0.5	5.5	-43.5	
182/06:18:00	70	31.2	016	10.0	0491	001.7	072	115	29789	29365	3.4	-0.4	-1.4	-44.1	
182/06:19:00	70	39.3	016	07.4	0495	001.6	070	114	30531	30160	3.1	-0.9	5.2	-46.0	
182/06:20:00	70	47.7	016	04.9	0499	001.5	073	116	31334	30981	3.1	-0.5	3.0	-47.1	
182/06:21:00	70	56.0	016	02.1	0503	001.3	070	115	32150	31855	4.2	-0.5	-2.1	-49.3	
182/06:21:36	71	00.8	016	00.5	0491	000.4	059	118	32911	32618	3.8	-0.5	-4.9	-48.7	06 21 00 H/P 1.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 12 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
182/06:21:46	71 02.2	015 59.9	0492	000.4	069	118	32977	32668	2.5	0.1	-2.1	-49.8	33,COFF.
182/06:22:00	71 03.9	015 59.2	0495	000.8	069	118	33012	32705	2.4	0.3	-1.3	-49.8	
182/06:22:20	71 05.9	015 58.4	0500	000.9	067	121	33011	32717	2.5	-1.0	-2.4	-50.2	F
182/06:23:00	71 12.4	015 56.4	0505	000.9	066	118	32991	32695	2.3	-0.7	-1.7	-49.6	
182/06:24:00	71 20.6	015 53.8	0505	000.3	065	119	32971	32697	2.4	-1.1	-3.4	-51.0	
182/06:25:00	71 28.8	015 51.0	0501	000.3	061	114	32972	32716	2.4	-0.7	-2.7	-49.6	
182/06:26:00	71 37.1	015 48.2	0497	000.1	059	112	32966	32729	2.4	-0.4	-4.6	-49.7	
182/06:27:00	71 45.4	015 45.5	0494	359.8	057	115	32971	32749	2.3	-0.6	-4.2	-50.2	
182/06:28:00	71 53.6	015 42.4	0492	359.4	052	115	32951	32755	2.5	-0.6	-4.0	-51.3	
182/06:29:00	72 01.6	015 39.7	0493	358.8	050	114	32976	32814	2.4	-0.5	-2.6	-49.5	
182/06:30:00	72 09.7	015 36.8	0483	358.6	047	115	32959	32836	2.6	-0.4	-2.7	-49.5	
182/06:31:00	72 17.7	015 33.6	0486	358.1	044	118	32931	32826	2.4	-0.7	-1.4	-52.0	
182/06:32:00	72 25.9	015 30.8	0486	357.7	041	115	32929	32854	2.4	-0.7	-9.4	-50.3	
182/06:33:00	72 33.8	015 27.7	0485	357.6	039	113	32932	32855	2.3	-0.5	-7.1	-50.6	
182/06:34:00	72 41.8	015 24.4	0484	357.3	037	117	32974	32837	2.3	-0.4	-5.4	-51.1	
182/06:35:00	72 49.9	015 21.6	0483	357.0	033	111	32956	32850	2.4	-0.8	-2.0	-51.1	
182/06:36:00	72 57.8	015 18.5	0481	356.9	031	109	32976	32939	2.2	-0.8	-5.7	-49.9	
182/06:37:00	73 05.7	015 15.2	0480	356.6	030	103	32973	32939	2.4	-0.6	1.6	-49.7	
182/06:38:00	73 13.7	015 12.2	0476	356.5	028	104	32971	32929	2.2	-0.5	1.9	-52.1	
182/06:39:00	73 21.3	015 08.8	0472	356.1	024	093	32950	32919	2.5	-0.6	2.2	-49.3	
182/06:40:00	73 29.3	015 05.4	0470	355.6	022	097	32963	32947	2.2	-0.6	1.4	-49.5	
182/06:41:00	73 37.0	015 02.1	0468	355.3	017	093	32956	32919	2.4	-0.9	1.1	-50.6	
182/06:42:00	73 44.6	014 58.7	0466	354.9	015	096	32977	32932	2.4	-0.3	0.9	-50.8	
182/06:42:10	73 45.9	014 58.2	0466	355.0	016	103	32951	32978	2.4	-0.5	0.8	-50.0	ADDAS PROBLEM RESOLVED WITH EXEC SYSTEM.
182/06:43:00	73 52.1	014 55.5	0464	354.8	014	071	32966	32971	2.2	-0.5	2.7	-49.2	
182/06:44:00	74 00.0	014 51.9	0467	354.1	010	084	32959	32977	2.3	-0.8	3.3	-51.1	
182/06:45:00	74 07.9	[illegible]	0468	[illegible]4.0	010	080	32967	32976	2.5	-0.5	3.3	-51.3	
182/06:46:00	74 1[illegible]	[illegible]4	0459	353.8	011	048	32959	32976	2.4	-0.3	2.9	-49.3	
182/06:47:00	74 21	014 41.4	0457	353.6	013	030	32969	32933	2.3	-0.4	3.2	-50.4	
182/06:48:00	74 30.1	014 37.9	0455	353.5	014	028	32963	32970	2.4	-0.8	2.8	-50.1	
182/06:49:00	74 37.5	014 34.5	0453	353.6	017	019	32977	33011	2.2	-0.6	2.5	-51.5	
182/06:50:00	74 45.1	014 30.7	0450	353.6	016	029	32945	32976	2.6	-0.9	3.0	-49.9	
182/06:54:14	00 00.0	000 00.0	0000	000.0	000	000	32972	32992	2.5	-0.9	1.8	-51.5	
182/06:54:34	75 18.6	014 12.9	0443	352.1	021	015	32951	33003	2.5	0.4	3.5	-50.5	ADDAS MENT CONT C6 51 54 AND BACK UP AT C6 54 17.
182/06:55:00	75 21.7	014 10.8	0442	352.9	021	018	32968	32993	2.5	0.0	2.9	-49.1	
182/06:56:00	75 29.1	014 06.9	0442	353.0	023	009	32943	33006	2.4	-0.5	4.9	-51.1	
182/06:56:50	75 34.9	014 03.6	0441	353.3	023	015	32957	33016	2.1	-0.3	5.0	-50.9	SURFACE WIND ARE OUT OF THE NORTH/EAST AT ABOUT 20 KNOTS.
182/06:57:00	75 36.2	014 02.7	0441	353.4	024	016	32955	33022	2.5	-0.4	5.0	-49.7	
182/06:57:04	75 36.7	014 02.5	0441	353.4	023	017	32962	33015	2.4	-0.9	4.9	-49.3	CLEAR BELOW.
182/06:58:00	75 43.5	013 58.9	0441	353.2	021	017	32969	33031	2.3	-0.7	5.2	-49.3	
182/07:01:32	00 00.0	000 00.0	0000	000.0	000	000	32958	33042	2.4	-0.6	5.4	-48.9	
182/07:01:52	76 11.7	013 42.2	0442	352.7	017	018	32971	33041	2.3	-0.5	4.8	-49.5	ADDAS MENT CONT C6 53 12 AND BACK UP AT 07 01 57.
182/07:02:00	76 12.8	013 41.6	0442	352.7	019	014	32962	33021	2.6	-0.7	4.9	-49.2	
182/07:02:02	76 12.9	013 41.7	0442	352.7	019	014	32959	33014	2.4	-0.7	4.9	-50.0	2 KNOTS - SURFACE WINDS 07 00 25.
182/07:02:14	76 14.4	013 40.9	0442	352.6	016	017	32977	33046	2.4	-0.7	5.4	-50.0	CLEAR WAVE PATTERN - NO WHITE CAPS 07 00 49.
182/07:02:26	76 15.7	013 39.7	0443	352.6	017	015	32959	33021	2.4	-0.6	5.4	-50.0	ICE STREAMERS 07 01 [illegible]S.
182/07:02:52	76 19.0	013 38.2	0443	352.7	017	015	32952	33019	2.5	-0.6	4.6	-50.8	5 OR 6 KNOTS - SURFACE WINDS.
182/07:03:00	76 19.9	013 37.5	0443	352.6	017	015	32962	33018	2.5	-0.7	4.9	-50.7	
182/07:04:00	76 27.3	013 32.6	0444	352.5	015	023	32953	32997	2.5	-0.4	5.0	-49.8	
182/07:05:00	76 34.6	013 28.1	0446	352.8	013	042	32962	33030	2.5	-0.6	5.4	-52.2	
182/07:06:00	76 41.7	013 23.4	0448	352.4	010	030	32961	33022	2.6	-0.7	4.9	-51.2	
182/07:07:00	76 49.2	013 18.6	0450	352.1	009	018	32970	33040	2.2	-0.6	5.0	-51.3	
182/07:07:12	76 50.7	013 17.7	0450	352.0	008	020	32957	33042	2.6	-0.9	5.2	-50.8	CAMERAS ON 07 07 00.
182/07:08:00	76 56.6	013 13.7	0451	352.0	010	025	32926	33028	2.4	-0.6	4.7	-51.0	
182/07:09:00	77 04.0	013 09.7	0453	351.9	008	021	32969	33023	2.3	-0.5	4.5	-50.6	
182/07:09:38	77 08.7	013 06.5	0455	351.6	005	020	32970	33028	2.3	-0.6	3.7	-49.9	OVER BIOLOGICAL PLUME.
182/07:10:00	77 11.6	013 03.3	0456	351.4	005	356	32955	33035	2.5	-0.7	3.1	-50.0	
182/07:11:00	77 18.9	012 58.1	0457	351.1	003	345	32966	33033	2.2	-0.5	3.4	-50.3	
182/07:12:00	77 26.5	012 52.7	0459	350.8	003	311	32973	33031	2.4	-0.7	2.9	-51.6	
182/07:13:00	77 34.1	012 46.8	0461	350.5	004	266	32960	33038	2.3	-0.6	3.6	-48.8	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 12 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND-- SPD	DIR	-ALTITUDE-- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
182/07:14:00	77 41.6	012 41.4	0463	349.9	006	240	32971	33016	2.2	-0.7	2.9	-51.1	
182/07:15:00	77 49.1	012 35.9	0465	349.7	007	244	32955	33032	2.2	-0.5	2.8	-51.1	
182/07:16:00	77 56.8	012 29.0	0467	349.4	011	231	32967	33036	2.3	-0.9	2.0	-50.7	
182/07:17:00	78 04.6	012 23.7	0469	348.9	014	228	32974	33009	2.2	-0.3	2.8	-50.1	
182/07:18:00	78 12.1	012 17.3	0471	343.7	017	224	32966	33020	2.5	-0.4	3.1	-50.9	
182/07:19:00	78 20.2	012 10.9	0474	348.3	021	221	32966	33007	2.3	-0.4	2.7	-52.2	
182/07:20:00	78 27.8	012 04.2	0476	347.9	021	226	32962	33003	2.2	-0.5	3.3	-51.6	
182/07:21:00	78 35.4	011 57.4	0478	347.3	026	227	32962	32975	2.1	-0.6	2.7	-51.5	
182/07:22:00	78 43.5	011 50.4	0480	347.0	030	224	32965	32781	2.2	-0.5	4.3	-50.6	
182/07:23:00	78 51.2	011 43.2	0482	346.4	034	225	32957	32635	2.0	-0.5	5.5	-49.5	
182/07:24:00	78 59.1	011 35.7	0484	345.8	036	231	32973	32921	2.0	-0.8	3.8	-49.8	
182/07:25:00	79 07.3	011 27.8	0486	345.7	037	229	32970	33060	2.2	-0.6	7.0	-51.1	
182/07:25:32	79 11.1	011 24.0	0487	345.4	041	225	32969	32788	2.0	-0.5	-9.1	-52.6	A BEAM OF US - STARBOARD - ICE FLOE.
182/07:26:00	79 15.0	011 20.5	0488	345.1	042	226	32938	32033	2.1	-0.7	-4.7	-53.4	
182/07:27:00	79 23.0	011 12.4	0489	344.8	044	226	32977	31402	2.0	-0.4	-17.7	-51.4	
182/07:28:00	79 30.5	010 57.9	0462	309.5	055	225	32992	32737	2.7	-23.3	-25.0	-52.5	
182/07:29:00	79 33.2	010 21.8	0431	269.2	054	225	32936	32850	2.2	-6.4	-20.8	-52.2	
182/07:30:00	79 33.2	009 42.5	0426	263.8	056	220	32957	32864	2.1	-1.5	-17.9	-51.1	
182/07:31:00	79 32.9	009 03.3	0422	261.9	061	219	32[illegible]	32096	2.2	-0.9	-14.6	-51.1	
182/07:32:00	79 32.6	008 25.3	0420	261.1	063	219	3[illegible]	32905	2.1	-0.6	-18.0	-52.0	
182/07:33:00	79 32.2	007 47.2	0416	260.4	068	221	32961	32857	2.0	-1.0	-22.3	-50.9	
182/07:33:06	79 32.2	007 42.9	0415	260.3	067	220	32957	32853	2.2	-0.6	-23.0	-51.2	79 24N LON 10 40W POLAR STERN.
182/07:34:00	79 31.8	007 08.4	0411	259.5	070	221	32956	32836	2.2	-0.6	-14.0	-51.3	
182/07:35:00	79 31.1	006 31.8	0407	258.5	072	220	32963	32855	2.3	-0.7	-9.7	-51.3	
182/07:36:00	79 30.6	005 55.5	0403	257.7	075	219	32969	32851	2.1	-0.7	-4.8	-52.8	
182/07:37:00	79 30.4	005 18.4	0409	265.4	076	220	32958	32832	2.3	1.0	-1.1	-50.8	
182/07:37:20	79 30.6	005 05.6	0409	266.1	076	220	32961	32803	2.1	0.3	-0.8	-51.1	*** START OF RUN 1 TIME 07.37.21 LAT 7930.7 N LON 00504.2 E FL 329
182/07:38:00	79 30.8	004 41.0	0408	266.7	078	220	32963	32791	2.3	-0.5	-1.7	-51.8	
182/07:39:00	79 31.3	004 04.5	0405	265.9	077	219	32963	32773	2.3	-0.8	-1.1	-53.1	
182/07:40:00	79 31.8	003 26.5	0404	265.0	081	215	32962	32762	2.7	-0.8	-1.2	-52.5	
182/07:41:00	79 32.2	002 50.5	0402	264.2	077	213	32944	32738	2.9	-0.4	0.0	-50.2	
182/07:42:00	79 32.5	002 14.4	0400	264.0	078	215	32958	32719	2.6	-0.6	-0.6	-49.9	
182/07:42:54	79 32.7	001 41.8	0400	264.0	070	215	32972	32665	2.7	-0.9	-0.7	-49.8	MAIN ICE MARGIN.
182/07:43:00	79 32.7	001 36.8	0401	264.2	069	215	32970	32672	2.3	-0.7	-1.3	-49.5	
182/07:43:04	79 32.8	001 35.0	0401	264.2	070	217	32961	32656	2.4	-0.8	-1.1	-49.0	MOSTLY 10. METER FLOES, FLOES 50 TO 5 MILES.
182/07:43:32	79 32.8	001 18.5	0403	264.5	068	218	32973	32652	2.7	-0.5	-1.2	-49.0	MAJOR EDDIE FEATURE IN THE ICE IS 10 MILES SOUTH OF US.
182/07:44:00	79 32.9	001 00.5	0404	264.4	067	218	32934	32650	2.4	-0.8	-1.1	-48.1	
182/07:45:00	79 32.9	000 24.0	0406	264.3	062	220	32958	32623	2.4	-0.5	-0.9	-48.6	
182/07:45:12	79 33.0	000 15.8	0406	264.5	062	223	32970	32619	2.4	-0.9	-0.8	-48.8	MODE 4 CAMERA ON 8. 07 45 00.
182/07:46:00	79 32.9	-000 14.2	0403	264.6	062	229	32977	32605	2.4	-0.9	-0.7	-47.6	
182/07:46:06	79 33.0	-000 17.6	0408	264.7	063	228	32977	32601	1.9	-0.7	-0.8	-49.3	MAKE RADAR TO ZENITH TO RADIO .27.
182/07:46:26	79 32.9	-000 30.1	0409	264.9	060	230	32959	32602	2.4	-0.9	-3.3	-47.3	CORRECTION: MAKE DATA TO ZENITH TO RATIO .27 OVER THIS ICE.
182/07:46:52	79 32.9	-000 46.5	0409	264.8	057	229	32951	32593	2.4	-1.0	-9.9	-48.1	ABEAM OF A MAJOR EDDIE 30 MILES SOUTH OF US.
182/07:47:00	79 32.9	-000 51.4	0409	264.8	061	230	32950	32613	2.4	-0.5	-8.1	-48.2	
182/07:47:08	79 32.9	-000 55.5	0409	264.5	060	220	32959	32594	2.2	-0.9	-11.6	-45.6	90 PERCENT ICE , 10 TO 100 METER FLOES MAJORITY.
182/07:47:30	79 32.9	-001 10.3	0409	263.9	061	229	32968	32601	2.3	-0.2	-2.7	-47.6	ABEAM MAJOR EDDIE 45 MILES SOUTH OF AIRCRAFT.
182/07:47:48	79 32.9	-001 21.2	0409	263.7	062	227	32965	32581	2.2	-0.7	-6.3	-47.9	TRANSITION ..ICE LARGE MULTIYEAR FLOES, 50 PERCENT SMALL FOR FIRST YEAR ICE.
182/07:47:52	79 32.9	-001 23.8	0409	263.7	062	228	32970	32574	2.2	-0.8	-4.5	-48.3	90 PERCENT ICE.
182/07:48:00	79 32.9	-001 27.9	0410	263.5	062	293	32954	32572	2.4	-0.4	-7.5	-47.6	
182/07:49:00	79 32.7	-002 06.7	0410	263.1	065	229	32967	32560	1.9	-1.1	-12.8	-47.4	
182/07:49:54	79 32.5	-002 40.1	0410	262.7	060	228	32957	32562	2.3	-0.7	-15.5	-47.9	LARGER FLOE. SMALL FLOES 1/2 MILE IN DIAMETER TO APPROX 10 MILES.
182/07:50:00	79 32.5	-002 43.4	0410	263.0	059	229	32956	32541	2.2	-0.5	-13.6	-47.5	
182/07:50:06	79 32.3	-002 47.1	0410	262.9	058	228	32947	32534	2.4	-0.6	-11.5	-49.1	TOTAL COVERAGE DROPPED TO 70 TO 80 PERCENT.
182/07:50:12	79 32.3	-002 51.4	0410	262.6	058	226	32944	32531	2.5	-1.0	-16.5	-48.6	LESS THAN 10 METER.
182/07:50:18	79 32.3	-002 55.2	0410	262.6	057	225	32956	32556	2.5	-1.9	-35.6	-49.6	THIN LAYER STRATOCUMULUS.
182/07:51:00	79 32.2	-003 20.3	0410	262.4	050	226	32953	32550	2.6	-0.5	-18.1	-46.2	
182/07:51:54	79 31.8	-003 54.1	0412	262.5	045	225	32952	32550	2.5	-0.3	-0.6	-47.9	50 PERCENT COVERAGE, MULTIYEAR FLOES, BROKEN UP 1 MILES IN DIAMETER.
182/07:52:00	79 31.6	-003 59.1	0412	262.4	044	223	32952	32544	2.6	-0.3	-8.4	-48.5	
182/07:52:04	79 31.6	-004 00.5	0413	262.3	044	223	32953	32552	2.9	-0.4	-6.6	-47.7	10 TO 100 METER CRACKS AROUND.
182/07:52:10	79 31.5	-004 10.2	0413	262.2	045	225	32972	32547	2.4	-0.6	-16.2	-47.4	LEAVING STRATOCUMULUS AREA.

ORIGINAL PAGE IS OF POOR QUALITY

YEAR 1984 AOOAS FLIGHT LOG --- FLIGHT NO. 12 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PTCH	ROLL	--TEMP--- IR	AIR	
182/07:52:30	79 31.5-004	17.1	0414	262.1	046	224	32974	32552	2.5	-0.4	-14.1	-46.8	CAN SEE ICE BUT LOOKS HAZY.
182/07:53:00	79 31.1-004	36.0	0416	261.7	047	222	32972	32547	2.4	-0.5	-2.7	-46.8	
182/07:54:00	79 30.7-005	15.9	0420	261.8	042	228	32935	32556	2.2	-0.8	-9.6	-46.3	
182/07:54:20	79 30.4-005	26.3	0421	261.9	041	230	32966	32564	2.2	-0.4	-14.8	-45.5	LARGE 80 MILE OR SO MULTIYEAR FLOE. 15 MILES SOUTH OF THE AIRCRAFT.
182/07:54:46	79 30.1-005	43.7	0423	262.2	039	231	32969	32546	2.4	-0.2	-13.1	-46.4	NADIR READING FROM MARE - RATIO .41 - ZENITH.
182/07:55:00	79 30.0-005	52.6	0424	262.0	039	233	32965	32545	2.4	-0.5	-3.9	-46.6	
182/07:55:24	79 29.8-006	07.6	0426	261.8	037	231	32964	32519	2.1	-0.5	-7.2	-46.6	STILL IN LIGHT PATCHY CLOUD COVER.
182/07:55:36	79 29.5-006	15.9	0427	261.6	038	230	32969	32519	2.4	-0.9	-3.5	-46.3	ESHR SHOWING NICE MULTIYEAR ICE.
182/07:56:00	79 29.3-006	30.9	0428	261.7	037	234	32972	32512	2.2	-0.7	-6.6	-47.0	
182/07:56:48	79 28.6-007	02.7	0430	261.1	036	233	32974	32504	2.1	-0.8	-5.6	-46.5	40 MILES DIAMETER 30 PERCENT ICE COVER NORTH OF THE AIRCRAFT - 20 MILES.
182/07:56:50	79 28.6-007	03.9	0430	261.0	036	235	32972	32493	2.0	-0.5	-6.2	-47.9	BROKEN ICE.
182/07:57:38	00 00.0 000	00.0	0000	000.0	000	000	32960	32483	2.4	-0.8	-3.6	-47.6	
182/07:57:50	79 27.7-007	42.3	0433	260.7	034	237	32966	32490	2.0	-0.8	-3.4	-44.3	AOOAS DOWN 07 56 52 AND BACK UP 07 57 39.
182/07:58:00	79 27.7-007	49.5	0434	260.5	035	238	32953	32483	2.4	-1.6	-1.9	-46.6	
182/07:59:00	79 26.5-008	29.0	0436	259.4	032	240	32950	32479	2.5	-0.5	-1.2	-46.1	
182/08:00:00	79 25.3-009	06.3	0438	258.9	030	243	32973	32485	2.1	-0.9	-1.2	-45.2	
182/08:01:00	79 24.0-009	45.7	0440	258.3	028	247	32955	32485	2.2	-0.9	-1.6	-48.4	
182/08:01:32	79 23.2-010	06.3	0440	258.2	027	248	32963	32473	2.0	-0.7	-1.3	-45.8	ICE FLOE LARGER - MUCH GREATER MELT STRUCTURE AT THIS POINT.
182/08:01:34	79 23.2-010	08.6	0440	258.1	027	248	32957	32472	2.0	-0.7	-1.3	-45.9	OVER 50 PERCENT ICE.
182/08:02:00	79 22.5-010	24.6	0440	258.1	029	250	32958	32469	2.0	0.0	-1.2	-45.4	
182/08:02:54	79 21.2-010	59.2	0441	258.0	030	251	32950	32463	2.7	-3.4	-1.2	-44.8	!!! END OF RUN 1 TIME 03.02.55 LAT 7921.1 N LON 01103.8 W FL 529
182/08:03:00	79 21.0-011	03.0	0440	255.6	030	241	32993	32514	3.3	-25.9	-1.6	-45.6	
182/08:03:50	79 16.9-011	25.2	0446	194.7	023	234	32934	32524	2.5	-28.2	-1.8	-46.4	SOME GREASE ICE IN THE SO CALLED "OPEN WATER".
182/08:04:00	79 15.5-011	26.1	0451	181.4	021	240	32937	32545	2.5	-28.3	-1.7	-47.2	
182/08:04:24	79 12.9-011	22.0	0463	151.9	017	247	32975	32517	2.6	-28.3	-1.9	-46.4	STRONG EVIDENCE OF GREASE ICE IN THIS AREA.
182/08:05:00	79 10.0-011	02.9	0478	110.4	021	260	32947	32517	3.4	-27.9	-2.2	-44.9	
182/08:05:54	79 11.3-010	27.4	0479	045.2	022	252	32937	32476	1.4	-0.6	-1.4	-45.7	75 PERCENT ICE COVER.
182/08:06:00	79 11.8-010	25.0	0481	046.9	021	236	32877	32439	3.5	29.2	-1.7	-45.1	
182/08:06:32	79 13.7-010	04.1	0481	077.0	020	242	32907	32470	2.3	8.5	-1.3	-46.3	50 MILES SOUTH OF ICE FREE AREA - POLYNYA.
182/08:07:00	79 14.3-009	43.7	0481	083.7	021	244	32942	32473	2.3	0.0	-1.6	-46.0	
182/08:08:00	79 15.4-009	01.8	0483	083.1	022	241	32958	32499	2.2	-0.8	-2.1	-46.1	
182/08:08:16	79 15.7-008	50.3	0484	083.0	023	240	32954	32505	2.2	-0.9	-9.9	-44.9	PATCHY CLOUDS AT ALTITUDE ON STARBIRD SIDE.
182/08:08:40	79 16.2-008	34.2	0484	083.0	023	240	32972	32505	2.2	-0.5	-2.1	-44.6	*** START OF RUN 2 TIME 03.03.39 LAT 7916.2 N LON 00334.2 W FL 529
182/08:09:00	79 16.5-008	20.2	0485	083.5	023	233	32961	32502	2.3	-0.2	-9.8	-46.8	
182/08:10:00	79 17.5-007	35.6	0488	084.3	026	232	32968	32522	2.3	0.0	-8.2	-46.2	
182/08:10:10	79 17.6-007	29.4	0488	084.6	027	234	32948	32496	2.1	-0.1	-3.0	-45.7	GOING FROM 50 PERCENT ICE TO 80 PERCENT ICE.
182/08:10:14	79 17.8-007	27.2	0488	084.8	027	234	32952	32497	2.4	-0.3	-20.3	-47.0	ALL MULTIYEAR FLOES.
182/08:11:00	79 18.5-006	52.9	0490	085.5	028	231	32969	32532	2.2	-0.8	-21.9	-46.5	
182/08:11:18	79 18.9-006	39.5	0490	085.8	029	229	32974	32550	2.1	-0.8	-18.8	-46.7	OVER FULL CLOUD COVER.
182/08:12:00	79 19.3-006	09.7	0492	086.5	031	223	32957	32520	2.0	-1.4	-13.1	-45.2	
182/08:13:00	79 20.4-005	24.6	0494	087.0	033	222	32964	32535	2.2	0.7	-14.6	-45.5	
182/08:14:00	79 21.0-004	40.8	0496	088.8	036	218	32957	32516	1.8	-0.9	-21.9	-46.1	
182/08:15:00	79 21.6-003	56.5	0497	089.6	036	216	32972	32543	1.9	-0.3	-4.2	-47.9	
182/08:15:20	79 21.7-003	41.6	0498	090.0	037	216	32953	32514	1.8	-0.5	-2.6	-47.4	BACK UP FAIRLY CLEAR CONDITION - A FEW CLOUD PATCHES.
182/08:15:40	79 22.0-003	26.5	0497	090.7	041	212	32973	32530	1.9	-0.7	-2.1	-47.4	20 PERCENT CLOUD CONDITION,80 PERCENT ICE CONDITION 5 MILE DIAMETER FLOES.
182/08:16:00	79 22.0-003	11.4	0497	091.5	043	209	32967	32554	1.9	0.3	-3.7	-46.8	
182/08:17:00	79 22.4-002	27.2	0497	092.5	044	211	32963	32541	1.8	-1.2	-5.3	-49.2	
182/08:18:00	79 22.6-001	42.3	0500	092.9	049	220	32952	32533	1.9	-1.1	-2.1	-51.6	
182/08:19:00	79 22.9-000	56.7	0502	094.1	047	214	32962	32546	1.9	-0.6	-1.4	-48.2	
182/08:19:02	79 22.6-000	55.5	0502	094.3	045	213	32969	32552	1.9	-0.4	-1.4	-49.0	PARE WAS SEEN HIS FAMOUS EDDIE OUT OF WINDOW - NOT NELSON EDDIE!!!!.
182/08:19:18	79 22.9-000	43.1	0502	094.5	047	210	32964	32548	1.8	-1.0	-1.3	-49.4	3.4SECOND MINDS FROM 1.2 DEGREES.
182/08:20:00	79 22.9-000	12.2	0501	095.2	051	212	32965	32547	1.8	-0.2	-1.1	-48.5	
182/08:20:34	79 22.9 000	13.8	0500	095.9	055	210	32960	32574	1.9	-0.5	-1.0	-48.2	85 PERCENT ICE COVERAGE, MOSTLY SMALL FLOES.
182/08:21:00	79 22.9 000	32.2	0499	096.6	054	209	32964	32585	1.9	-0.4	-1.0	-49.2	
182/08:21:32	79 22.6 000	57.0	0498	097.3	056	206	32973	32590	1.8	-0.8	-1.0	-49.8	SMELL ENTERING ICE EDGE, 70 METERS IN LENGTH FROM ABOUT 30 DEGREES.
182/08:22:00	79 22.6 001	18.2	0497	097.8	057	205	32971	32614	1.8	-0.3	-1.1	-49.2	
182/08:23:00	79 22.4 002	02.6	0495	098.8	059	207	32969	32615	1.9	-0.5	-1.2	-50.0	
182/08:23:08	79 22.1 002	07.7	0495	099.0	060	207	32965	32665	1.7	-0.9	-1.6	-49.8	EASTERN EDGE OF ICE PATTERN.
182/08:23:24	79 22.1 002	19.0	0495	099.6	064	205	32959	32681	1.9	-0.5	0.4	-49.6	ICE EDDIE IS STILL OFF ON OUR STARBIRD SIDE.
182/08:23:52	79 22.0 002	41.7	0495	100.4	067	208	32964	32690	1.8	-0.4	-0.8	-51.4	ENTERING 85 PERCENT LOW CLOUD COVER.

YEAR 1984 AODAS FLIGHT LOG --- FLIGHT NO. 12 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
182/08:24:00	79 21.8	002 46.9	0495	100.5	067	208	32953	32697	1.9	-0.4	-0.8	-50.2	
182/08:25:00	79 21.3	003 31.8	0496	101.5	069	205	32952	32682	1.9	-0.4	-1.3	-52.8	
182/08:26:00	79 20.9	004 16.1	0497	102.1	068	209	32967	32732	2.0	-0.9	0.9	-51.7	
182/08:27:00	79 20.2	005 00.1	0495	102.2	064	213	32957	32767	2.0	-0.6	-0.6	-51.6	
182/08:27:36	79 19.7	005 26.0	0493	102.2	063	213	32960	32802	2.1	3.4	-0.7	-50.2	!!! END OF RUN 2 TIME C8.27.37 LAT 7919.6 N LON C0527.7 E FL 329
182/08:27:54	79 19.2	005 38.7	0460	127.2	075	212	33187	33033	2.8	44.9	-2.4	-52.8	45 DEGREE TURN TO THE RIGHT.
182/08:28:00	79 18.6	005 42.7	0441	142.2	080	216	33134	33076	2.5	44.3	-2.7	-52.3	
182/08:29:00	79 13.4	005 34.6	0396	230.6	070	215	32829	32704	2.2	2.6	-1.4	-51.5	
182/08:30:00	79 11.0	005 02.2	0408	257.6	067	217	32931	32809	2.1	7.0	-0.3	-51.1	
182/08:30:56	79 11.6	004 28.8	0416	266.1	069	215	32958	32820	1.9	0.6	0.6	-52.7	*** START OF RUN 3 TIME C8.30.55 LAT 7911.0 N LON C0428.8 E FL 32?
182/08:31:00	79 11.0	004 25.2	0417	266.4	067	217	32958	32815	2.1	0.6	0.2	-51.3	
182/08:31:50	79 11.5	003 55.4	0417	266.3	072	213	32964	32768	2.0	-0.8	-0.7	-50.9	50 PERCENT CLOUD COVER DELO M.
182/08:32:00	79 11.5	003 48.9	0417	266.3	072	213	32969	32778	2.2	-0.6	-0.8	-51.9	
182/08:33:00	79 12.0	003 12.1	0417	265.4	074	212	32959	32761	2.1	-0.4	-1.1	-50.4	
182/08:33:52	79 12.3	002 40.3	0417	265.4	067	211	32964	32748	2.1	-1.0	-1.0	-50.8	MARE HAVE OCCASION TROUBLE TAKING DATA FROM NADIR RATIO.
182/08:34:00	79 12.3	002 34.2	0417	265.4	069	213	32952	32728	2.1	-0.2	-1.2	-50.6	
182/08:35:00	79 12.7	001 57.9	0416	265.8	062	214	32966	32676	2.1	-0.9	-1.2	-50.4	
182/08:35:38	79 12.8	001 34.8	0416	265.3	061	213	32962	32607	2.3	-0.6	-1.0	-49.6	PASSING A REGION OF 70 TO 80 METERS OF ICE PATCHES.
182/08:35:42	79 12.8	001 32.6	0415	265.2	060	213	32968	32678	2.1	-0.7	-1.1	-50.0	CLEAR CONDITIONS.
182/08:36:00	79 12.9	001 21.4	0415	264.9	062	212	32966	32714	2.3	-0.7	-0.7	-50.3	
182/08:36:08	79 13.0	001 15.8	0415	265.0	061	213	32969	32665	2.2	-0.4	-1.2	-49.0	MIXTURE OF FIRST YEAR AND MULTIYEAR ICE.
182/08:36:42	79 13.1	000 55.0	0415	264.7	059	211	32957	32655	2.4	-0.9	-0.9	-48.7	CORRECTION: ICE FLOES.
182/08:37:00	79 13.1	000 43.7	0415	264.5	058	210	32947	32668	2.5	-0.3	-0.5	-49.7	
182/08:38:00	79 13.2	000 07.7	0415	264.2	058	212	32964	32635	2.4	-0.8	-1.0	-50.0	
182/08:39:00	79 13.2-000	29.1	0414	264.3	054	216	32960	32622	2.2	-0.4	-2.6	-50.0	
182/08:40:00	79 13.1-001	06.2	0414	264.0	053	217	32969	32622	2.4	-1.2	-1.8	-48.0	
182/08:41:00	79 13.0-001	42.5	0413	264.2	049	221	32950	32600	2.4	-0.5	-4.7	-49.1	
182/08:42:00	79 12.9-002	18.9	0413	263.6	043	218	32957	32596	2.2	-0.3	-7.4	-49.5	
182/08:42:08	79 12.8-002	24.8	0413	263.8	044	219	32964	32591	2.5	-0.7	-6.2	-51.3	TRANSITION FROM SMALL
182/08:42:14	79 12.8-002	27.9	0413	263.7	044	222	32967	32598	2.2	-0.8	-7.4	-51.4	TRANSITION FROM SMALL TO LARGER FLOES.
182/08:43:00	79 12.7-002	56.7	0415	262.9	046	212	32964	32600	2.4	-0.7	-12.7	-48.2	
182/08:43:46	79 12.3-003	23.8	0416	262.8	045	219	32976	32599	2.3	-0.9	-2.8	-47.3	LARGE MULTIYEAR FLOE GOOD RIDGING STRUCTURES A FEW MELT AREAS..
182/08:44:00	79 12.3-003	32.8	0416	262.7	046	219	32960	32584	2.3	-0.7	-6.7	-48.4	
182/08:45:00	79 11.8-004	09.1	0417	262.7	042	227	32957	32575	2.3	-0.3	-1.2	-47.7	
182/08:45:52	79 11.5-004	41.3	0417	263.0	039	228	32939	32557	2.3	-0.9	-1.5	-46.8	LARGE MULTIYEAR FLOE ABEAM AND TO THE SOUTH OF US.
182/08:46:00	79 11.4-004	46.5	0417	262.8	039	229	32939	32548	2.3	-0.6	-1.4	-48.2	
182/08:46:24	79 11.1-005	01.5	0420	262.9	038	234	32958	32558	2.4	-0.4	-2.5	-48.6	LEAD OF FLOE SMALL PUSHED AWAY FROM THE RIDGES.
182/08:47:00	79 10.8-005	23.9	0424	262.9	037	235	32966	32558	2.0	-0.4	-1.0	-46.5	
182/08:47:16	79 10.7-005	33.8	0426	262.8	037	236	32959	32554	2.4	-3.8	-1.1	-46.5	!!! END OF RUN 3 TIME C8.47.15 LAT 7910.7 N LON C0533.8 N FL 329
182/08:48:00	79 08.2-005	54.1	0424	190.3	027	213	33148	32816	2.9	-42.9	-2.0	-46.4	
182/08:49:00	79 02.6-005	30.9	0461	134.6	036	232	33157	32769	1.0	0.5	-1.7	-47.5	
182/08:50:00	79 00.5-004	53.2	0502	082.9	031	226	32955	32543	1.5	-4.7	-3.5	-47.1	
182/08:50:40	79 01.3-004	24.4	0502	086.0	036	218	32951	32531	1.7	2.3	-7.6	-46.7	SURFACE STRUCTURE LOOKS LIKE ICE.
182/08:51:00	79 01.6-004	10.1	0501	088.4	039	219	32953	32534	1.7	1.5	-4.1	-46.0	
182/08:51:02	79 01.6-004	08.7	0501	088.7	038	218	32944	32533	1.8	1.5	-4.2	-48.1	*** START OF RUN 4 TIME C8.51.01 LAT 7901.6 N LON C0408.7 N FL 329
182/08:51:52	79 02.1-003	51.8	0500	091.0	040	214	32970	32580	1.8	-0.7	-10.4	-48.3	HARSH MULTIYEAR FLOES, ABOUT 80 PERCENT.
182/08:52:00	79 02.1-003	25.1	0500	091.1	040	213	32964	32566	1.7	-0.6	-7.2	-49.0	
182/08:52:06	79 02.2-003	21.8	0499	091.1	040	214	32965	32566	1.7	-0.4	-2.6	-47.8	10 TO 15 PERCENT THIN CLOUDS.
182/08:52:44	79 02.3-002	54.5	0498	092.1	045	213	32960	32586	1.8	-1.1	-4.8	-49.5	OVER NORTH WEST CORNER OF THE EDDIE STRUCTURE.
182/08:53:00	79 02.6-002	42.3	0498	091.9	044	215	32962	32558	1.8	-0.8	-4.9	-49.0	
182/08:53:28	79 02.6-002	22.3	0497	091.7	039	220	32959	32562	1.9	-0.9	-8.2	-52.1	INTERNAL WAVE PATTERN.
182/08:54:00	79 02.8-001	59.8	0497	092.7	044	217	32958	32580	2.0	-0.6	-6.9	-48.3	
182/08:54:32	79 02.8-001	36.4	0496	093.3	046	219	32962	32593	1.6	-0.3	-6.9	-49.7	REGION OF 10 TO 100 METER FLOES, NORTHERN BOUNDARY OF THE EDDIE.
182/08:55:00	79 02.9-001	15.6	0498	093.3	048	224	32946	32584	1.8	-0.8	-4.9	-49.9	
182/08:56:00	79 02.9-000	32.1	0499	094.9	053	216	32949	32590	1.9	-0.1	-4.0	-50.7	
182/08:57:00	79 02.8 000	11.3	0497	097.5	056	213	32991	32630	1.7	0.1	-1.0	-51.7	
182/08:58:00	79 02.6 000	54.6	0497	096.8	053	212	32986	32653	1.8	-2.6	-1.3	-48.5	
182/08:59:00	79 02.3 001	37.7	0495	097.1	056	213	33056	32753	1.6	0.3	-0.4	-50.8	
182/09:00:00	79 02.1 002	20.5	0496	098.8	059	218	33000	32761	1.4	-0.2	-0.3	-50.6	
182/09:00:52	79 01.8 002	58.2	0497	100.6	064	215	32969	32760	1.9	-0.4	-0.6	-49.8	AREA OF BROKEN CLOUD.

YEAR 1984 AOOAS FLIGHT LOG --- FLIGHT NO. 12 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
182/09:01:00	79 01.6	003 04.9	0497	100.8	064	214	32994	32786	2.1	-1.4	-0.7	-52.4	
182/09:02:00	79 01.1	003 47.8	0493	101.4	067	219	33047	32803	2.0	-2.0	-0.8	-51.6	
182/09:03:00	79 00.4	004 30.9	0504	101.1	064	219	32925	32768	1.8	-1.3	0.3	-51.6	
182/09:04:00	78 59.6	005 15.1	0505	101.5	061	223	32944	32826	1.3	-0.1	0.1	-52.6	
182/09:04:02	78 59.5	005 16.8	0506	101.9	062	222	32932	32791	1.5	0.7	-0.4	-53.0	||| END OF RUN 4 TIME 09.04.01 LAT 7859.5 N LON 00516.8 E FL 329
182/09:05:00	78 56.5	005 51.2	0439	158.4	070	223	33050	32949	2.0	28.2	-7.5	-50.9	
182/09:06:00	78 50.7	005 43.4	0400	246.8	064	230	32962	32888	2.8	30.1	-2.9	-50.4	
182/09:07:00	78 50.4	005 07.9	0415	267.8	063	227	33073	32971	1.7	1.3	-0.2	-52.2	
182/09:08:19	00 00.0	000 00.0	0000	000.0	000	000	33077	32889	1.7	-0.8	0.9	-51.9	
182/09:08:51	78 51.7	004 01.6	0423	268.6	067	222	33016	32872	1.8	-0.4	0.9	-51.4	START OF RUN 5 AT 09 07 20 LAT 78 50.6N LON 4 55.6E.
182/09:09:01	78 51.8	003 55.4	0424	268.3	070	222	33013	32863	1.6	-0.3	0.2	-51.8	
182/09:09:37	78 52.1	003 33.3	0425	268.1	072	221	32968	32766	1.6	0.1	-0.5	-52.2	10 PERCENT CLOUD COVER AT THE START OF THE RUN.
182/09:10:01	78 52.4	003 19.7	0426	267.9	072	219	32932	32756	1.6	-1.4	-0.4	-51.7	
182/09:11:01	78 52.4	002 43.5	0420	265.0	066	221	32933	32744	1.9	0.9	0.3	-51.9	
182/09:12:01	78 52.9	002 06.7	0418	265.7	062	220	32938	32732	1.8	-0.6	-0.2	-49.6	
182/09:13:01	78 53.0	001 30.9	0417	265.6	063	218	32952	32750	1.9	-0.4	2.4	-49.4	
182/09:13:35	78 53.1	001 10.9	0417	265.5	061	219	32957	32703	2.0	-0.5	1.9	-49.9	BACK IN FAIRLY CLEAR CONDITIONS.
182/09:14:01	78 53.2	000 55.4	0418	265.4	061	220	32966	32707	2.0	-0.4	1.0	-50.4	
182/09:15:01	78 53.3	000 19.0	0420	265.5	058	224	32976	32662	2.0	-0.4	-0.4	-51.1	
182/09:16:01	78 53.4-000	17.1	0421	265.3	054	223	32966	32636	2.0	-0.7	-5.0	-50.3	
182/09:16:13	78 53.4-000	24.6	0422	265.4	053	226	32960	32627	1.7	-0.5	-1.0	-49.9	CROSSTING A STREAMER OF 50 METER FLOES.
182/09:17:01	78 53.3-000	52.6	0423	265.3	050	226	32967	32631	1.8	-0.5	-0.9	-52.1	
182/09:17:33	78 53.3-001	12.9	0423	265.5	047	227	32946	32614	1.9	-0.4	-4.7	-53.0	EASTERN BOUNDARY OF EDDIE.
182/09:18:01	78 53.2-001	30.4	0425	265.8	046	229	32952	32602	1.8	-0.7	-6.7	-50.6	
182/09:18:43	78 53.2-001	55.3	0425	264.5	047	225	32947	32610	2.2	-0.2	-6.7	-50.6	CENTER OF THE EDDIE - 3 MILES LFT
182/09:18:45	78 53.1-001	56.5	0425	264.5	047	226	32957	32610	2.2	-0.3	-7.4	-50.4	FT
182/09:18:51	78 53.2-002	01.2	0425	264.5	046	224	32981	32623	1.9	-0.7	-7.9	-49.1	CENTER OF EDDIE - 3 MILES LEFT.
182/09:19:01	78 53.2-002	06.6	0425	264.4	047	224	32961	32618	1.9	-0.2	-6.6	-48.7	
182/09:20:01	78 53.0-002	42.8	0425	264.2	047	227	32960	32590	1.8	-0.4	-4.2	-48.4	
182/09:21:01	78 52.6-003	20.0	0424	263.5	043	225	32958	32615	2.1	-0.2	-2.5	-48.6	
182/09:22:01	78 52.4-003	55.9	0423	263.3	044	226	32964	32599	2.0	-0.4	-1.4	-48.2	
182/09:22:19	78 52.1-004	07.1	0422	263.4	040	229	32959	32596	2.2	-1.0	-0.9	-46.3	80 PERCENT MULTIYEAR FLOES MEDIUM SIZE.
182/09:22:27	78 52.1-004	12.3	0422	263.2	041	229	32957	32608	2.0	-0.6	-2.0	-45.9	1 MILE DIAMETER AND SOME SMALLER.
182/09:23:01	78 51.8-004	31.4	0421	263.3	040	235	32964	32619	1.9	-0.2	-1.9	-46.1	
182/09:23:05	78 51.8-004	34.9	0421	263.2	042	234	32966	32614	2.1	-0.4	-1.8	-46.6	10 TO 100 METER FLOES, THAT ARE MIXED IN WITH LARGER FLOES.
182/09:24:01	78 51.4-005	08.8	0420	263.8	039	243	32965	32589	2.0	-0.2	-1.4	-46.8	
182/09:25:01	78 50.7-005	43.9	0419	263.3	041	244	32954	32575	1.9	-0.4	-0.5	-47.0	
182/09:25:43	78 50.4-006	09.0	0418	262.5	039	243	32955	32581	2.1	-0.1	-0.8	-48.5	MULTIYEAR FLOES, SMALL SIZES.
182/09:26:01	78 50.2-006	19.6	0418	262.5	040	244	32949	32587	2.5	-5.9	-0.9	-46.7	60 TO 70 PERCENT ICE.
182/09:26:03	78 50.2-006	21.8	0418	261.8	039	241	32948	32575	3.0	-14.1	-0.6	-46.0	||| END OF RUN 5 TIME 09.26.02 LAT 7850.2 N LON 00521.8 H FL 329
182/09:27:01	78 46.1-006	46.1	0418	213.5	036	241	32936	32565	2.3	-0.5	-1.3	-46.5	
182/09:28:01	78 40.2-007	04.0	0419	213.7	037	239	32966	32600	2.1	-0.9	-0.9	-47.2	
182/09:29:01	78 33.6-007	11.3	0445	159.3	031	239	32959	32626	2.5	-22.4	-1.7	-40.2	
182/09:30:01	78 27.2-006	49.7	0458	149.8	039	241	32960	32619	2.2	-0.4	-1.2	-46.3	
182/09:31:01	78 21.0-006	28.1	0462	150.3	040	246	32961	32652	2.0	-0.1	-1.4	-49.3	
182/09:32:01	78 14.6-006	06.8	0467	150.5	040	255	32973	32656	2.0	-0.8	-1.2	-49.0	
182/09:33:01	78 08.2-005	45.4	0472	150.5	039	254	32980	32700	1.9	-0.7	-1.1	-49.2	
182/09:33:55	78 02.2-005	25.8	0475	150.9	040	251	32932	32692	1.9	-0.6	-1.0	-49.4	SMALL FIRST YEAR FLOES AND SMALLER SECOND YEAR FLOES.
182/09:34:01	78 01.8-005	24.0	0475	150.9	039	254	32969	32692	1.8	-0.6	-0.8	-48.7	
182/09:35:01	77 55.2-005	03.4	0481	151.8	044	261	32956	32697	1.9	-0.6	-0.9	-50.2	
182/09:36:01	77 48.3-004	41.7	0486	151.8	045	265	32965	32720	1.8	-0.6	-0.7	-51.4	
182/09:37:01	77 41.6-004	21.3	0490	152.0	042	266	32959	32747	1.6	-0.7	-0.8	-50.9	
182/09:37:55	77 35.6-004	03.6	0491	151.9	040	270	32975	32765	1.7	-0.5	-0.5	-53.7	FRONTAL PATTERN - 10 MILES AHEAD OF AIRCRAFT, 30 MILES LEFT OF TRACK
182/09:38:01	77 34.8-004	01.5	0491	151.8	039	267	32966	32767	1.7	-1.0	-0.5	-50.9	NICE HAVE STRUCTURE - WATER.
182/09:39:01	77 27.7-003	40.7	0490	151.8	035	260	32962	32781	1.7	-0.7	-1.2	-51.1	
182/09:39:05	77 27.3-003	39.4	0490	151.8	036	269	32969	32784	1.6	-0.7	-1.0	-49.9	77 29.9N 3.46 IN.
182/09:40:01	77 20.9-003	21.1	0487	151.4	027	259	32972	32805	1.6	-1.1	-0.5	-50.0	
182/09:41:01	77 14.1-003	02.0	0484	151.7	024	249	32949	32802	1.7	-0.4	0.5	-51.7	
182/09:41:11	77 13.0-002	58.6	0482	151.7	024	246	32990	32840	1.3	-0.9	0.4	-51.1	ALMOST AT THE HORIZON ON STARBIRD SIDE - THEY SEE AN EDDIE.
182/09:42:01	77 07.1-002	43.6	0477	151.9	026	228	32937	32848	1.4	-0.6	-0.4	-53.4	

YEAR 1984 ADAS FLIGHT LOG --- FLIGHT NO. 12 --- HIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
182/09:43:01	77 00.5-002	25.5	0470	152.8	030	223	32940	32844	1.6	0.0	-0.6	-52.8	
182/09:43:13	76 59.1-002	21.4	0468	153.0	028	225	32956	32833	1.5	-0.7	0.2	-52.4	09 42 59 OVER THE EDGE.
182/09:44:01	76 53.9-002	09.2	0463	153.4	030	230	32940	32903	1.6	-0.8	2.6	-51.5	
182/09:45:01	76 47.1-001	50.9	0456	154.2	037	222	32952	32930	1.6	-0.7	1.3	-51.0	EVIDENCE OF WAVES ENTERING ICE LOCATION.
182/09:45:11	76 46.1-001	48.3	0455	154.3	039	223	32953	32929	1.7	-0.7	-3.4	-50.9	PLANE DIRECTLY BELOW US.
182/09:46:01	76 40.7-001	34.5	0453	154.6	041	222	32956	32898	1.9	-0.4	-0.3	-51.6	
182/09:46:39	76 36.6-001	24.4	0451	154.9	039	222	32950	32925	1.7	-0.8	2.1	-52.9	LOW LEVEL STRATUS.
182/09:46:59	76 34.5-001	19.1	0450	154.9	039	222	32949	32972	1.8	-1.1	-0.7	-51.0	ENTERING 100 PERCENT STRATUS CLOUD COVER.
182/09:47:01	76 34.2-001	18.4	0450	155.0	039	221	32949	32957	1.8	-0.8	-1.1	-51.3	
182/09:48:01	76 27.5-001	02.2	0449	155.0	038	215	32963	32942	1.8	-0.4	-0.8	-51.2	CAMERAS OFF.
182/09:49:01	76 21.1-000	47.0	0448	155.0	037	214	32980	33014	1.6	-0.4	-1.5	-52.2	
182/09:50:01	76 14.8-000	31.9	0447	154.6	033	210	32956	33003	1.6	-1.0	-0.8	-50.4	
182/09:51:01	76 08.1-000	16.9	0445	154.4	030	208	32956	33018	1.8	-0.7	-0.8	-49.8	
182/09:52:01	76 01.6-000	02.6	0445	154.4	029	199	32973	33024	1.8	-0.6	-0.2	-51.8	
182/09:53:01	75 55.3 000	12.1	0443	154.2	026	200	32959	33053	1.8	-0.4	-3.2	-51.1	
182/09:54:01	75 48.6 000	26.6	0443	154.2	025	198	32964	33055	1.8	-0.6	-4.8	-50.7	
182/09:55:01	75 42.2 000	40.3	0440	154.5	021	193	33041	33146	1.6	-1.6	-4.5	-51.1	
182/09:56:01	75 35.7 000	53.4	0441	154.7	020	189	33023	33106	1.0	-1.6	-1.7	-51.2	
182/09:57:01	75 29.1 001	07.1	0444	153.3	019	186	32955	33037	1.0	-0.1	-4.0	-51.7	
182/09:58:01	75 22.6 001	20.5	0444	153.1	018	178	33008	33108	1.6	-0.5	0.1	-51.0	
182/09:59:01	75 16.2 001	33.9	0445	153.6	019	167	32989	33065	1.6	-0.5	-3.6	-51.5	
182/10:00:01	75 09.4 001	47.2	0446	153.6	023	160	32979	33040	1.6	-0.5	-4.7	-51.1	
182/10:01:01	75 02.8 002	00.0	0446	153.6	021	152	32981	33033	1.5	-0.5	-4.0	-51.2	
182/10:02:01	74 56.6 002	14.2	0444	151.3	021	152	32958	33017	1.5	9.1	-2.1	-50.6	
182/10:03:01	74 50.9 002	32.5	0446	126.1	021	137	32948	33023	1.7	0.2	-2.9	-50.7	
182/10:04:01	74 46.5 002	54.7	0446	127.2	021	135	32975	33005	1.6	-1.0	-4.1	-51.8	
182/10:05:01	74 42.0 003	17.1	0446	127.3	022	129	32980	33014	1.6	-0.5	-13.4	-50.8	
182/10:06:01	74 37.4 003	39.4	0444	128.8	025	131	32939	33028	1.6	-1.0	-23.2	-51.4	
182/10:07:01	74 32.9 004	00.8	0442	127.9	026	127	32981	33008	1.6	-0.7	-14.9	-50.2	
182/10:08:01	74 28.5 004	22.4	0440	127.9	027	123	32966	33020	1.8	-0.4	-12.9	-49.7	
182/10:09:01	74 23.9 004	44.1	0439	128.0	026	119	32973	33031	1.6	-0.4	-8.1	-49.7	
182/10:10:01	74 19.2 005	05.0	0438	128.3	028	121	32980	33000	1.7	-0.4	-5.0	-51.5	
182/10:11:01	74 14.8 005	25.5	0436	128.3	029	116	32976	33032	1.8	-0.4	1.4	-50.7	
182/10:12:01	74 10.1 005	46.5	0436	128.5	027	112	32970	33005	1.8	-0.6	2.3	-49.9	
182/10:13:01	74 05.6 006	05.6	0435	128.8	026	109	32972	32997	1.7	-0.5	2.2	-51.3	
182/10:13:17	74 04.2 006	12.2	0436	128.8	026	109	32980	32939	1.5	-0.5	-0.4	-50.3	0 182 10.13.16 ADAS TAPES SWITCHED, EOT
182/10:14:01	74 00.9 006	26.5	0436	128.5	029	105	32976	33002	1.7	-0.7	-0.3	-51.2	
182/10:15:01	73 56.1 006	47.2	0438	128.8	029	103	32991	33010	1.7	-0.6	-2.3	-50.8	
182/10:16:01	73 51.4 007	05.9	0439	129.0	030	102	32975	32985	1.6	-0.3	-1.2	-51.3	
182/10:17:01	73 46.6 007	26.5	0440	129.6	030	107	32955	32969	1.5	-0.7	2.1	-49.4	
182/10:18:01	73 41.8 007	46.8	0441	129.8	029	104	32944	32947	1.6	-0.5	2.3	-51.3	
182/10:19:01	73 37.0 008	05.9	0441	129.9	030	101	32955	32958	1.6	-0.7	2.1	-48.6	
182/10:20:01	73 32.1 008	24.7	0440	130.0	034	102	32950	32926	1.5	-0.6	2.1	-49.6	
182/10:21:01	73 27.1 008	44.4	0440	130.2	031	100	32957	32944	1.6	-0.5	2.5	-50.0	
182/10:22:01	73 22.3 009	02.9	0440	130.6	030	100	32942	32929	1.6	-0.3	2.3	-50.2	
182/10:23:01	73 17.3 009	21.7	0441	130.7	030	098	32943	32919	1.6	-0.3	1.9	-49.5	
182/10:24:01	73 12.2 009	40.4	0441	131.0	033	097	32946	32901	1.5	-0.5	2.2	-50.8	
182/10:25:01	73 07.1 009	58.7	0441	131.1	034	100	32948	32917	1.4	-0.5	1.6	-51.7	
182/10:26:01	73 02.2 010	16.5	0440	131.2	037	098	32961	32888	1.5	-0.8	1.6	-51.7	
182/10:27:01	72 57.1 010	34.8	0440	131.5	036	099	32950	32908	1.5	-0.4	1.8	-50.1	
182/10:28:01	72 52.0 010	52.7	0440	131.7	037	097	32949	32890	1.6	-0.6	1.3	-50.2	
182/10:29:01	72 46.9 011	10.0	0440	131.9	038	098	32952	32877	1.5	-0.6	1.4	-49.7	
182/10:30:01	72 41.7 011	28.2	0439	132.1	039	099	32967	32871	1.5	-0.4	-0.8	-50.3	
182/10:31:01	72 36.6 011	45.0	0438	132.2	041	098	32949	32872	1.5	-0.5	0.4	-50.6	
182/10:32:01	72 31.4 012	02.0	0437	132.4	038	096	32954	32872	1.4	-0.6	-2.8	-51.4	
182/10:33:01	72 26.3 012	19.1	0437	132.6	039	095	32948	32865	1.5	-0.7	-4.9	-48.6	
182/10:34:01	72 21.0 012	35.6	0437	132.5	041	093	32939	32846	1.5	-0.7	-1.2	-49.9	
182/10:35:01	72 15.6 012	52.6	0437	132.7	042	093	32936	32859	1.4	-0.4	0.4	-50.2	
182/10:36:00	72 10.7 013	08.1	0436	133.0	043	093	32958	32812	1.5	-0.7	-0.5	-48.8	
182/10:37:00	72 05.4 013	24.4	0435	133.4	045	096	32952	32825	1.5	-0.4	-2.6	-49.7	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 12 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND DIR	WIND SPD	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
182/10:38:00	72 00.0	013 40.5	0434	133.6	047	100	32950	32776	1.4	-0.3	1.6	-50.7	
182/10:39:00	71 54.8	013 56.3	0433	133.8	046	099	32955	32797	1.5	-0.2	1.1	-51.0	
182/10:40:00	71 49.3	014 12.2	0432	133.8	048	097	32940	32799	1.4	-0.5	0.5	-49.2	
182/10:41:00	71 44.1	014 27.3	0431	133.8	047	096	32938	32796	1.5	-0.3	-0.4	-49.0	
182/10:42:00	71 38.9	014 42.7	0430	134.0	050	097	32947	32770	1.5	-0.6	0.7	-51.6	
182/10:43:00	71 33.5	014 57.9	0429	134.4	052	100	32947	32778	1.4	-0.4	0.3	-49.6	
182/10:44:00	71 28.2	015 12.7	0431	135.0	052	101	32814	32612	0.8	-1.4	-1.5	-48.5	
182/10:45:00	71 22.7	015 27.5	0431	136.4	049	102	31590	31367	-0.6	0.0	-2.9	-48.4	
182/10:46:00	71 17.2	015 42.0	0442	138.1	046	099	29590	29337	-0.6	3.3	-0.5	-43.7	
182/10:47:00	71 10.5	015 50.2	0462	175.3	042	106	26604	26314	-1.5	17.7	3.2	-35.4	
182/10:48:00	71 03.0	015 43.5	0488	200.4	041	113	22412	22047	-4.7	1.4	-2.8	-26.4	
182/10:49:00	70 56.7	015 36.0	0273	155.1	055	098	25579	24021	-16.1	-83.9	-10.1	-33.8	
182/10:50:00	70 52.6	015 49.1	0380	127.7	036	100	20063	19761	0.7	-1.3	-1.0	-21.4	
182/10:50:52	70 48.4	015 58.7	0396	178.4	031	102	20019	19749	1.2	2.7	-0.2	-21.7	45 DEGREE RIGHT BANK.
182/10:51:00	70 47.5	015 58.5	0397	178.6	031	101	20011	19700	1.2	-11.3	1.1	-21.4	
182/10:52:00	70 41.0	015 59.9	0393	172.9	029	103	20031	19737	1.4	2.0	3.2	-22.7	
182/10:53:00	70 34.6	016 00.0	0388	175.6	030	100	20039	19756	1.5	0.0	-6.2	-21.8	
182/10:54:00	70 28.9	016 06.3	0373	167.4	026	104	20082	19784	2.0	29.9	-1.7	-22.3	
182/10:55:00	70 22.5	016 05.2	0379	178.5	026	097	20037	19757	1.7	-5.2	-1.3	-22.7	
182/10:56:00	70 16.3	016 04.6	0379	175.6	024	096	20039	19728	1.6	-0.3	1.6	-24.8	
182/10:57:00	70 10.1	016 04.7	0382	178.6	020	091	20047	19740	2.0	2.4	-0.3	-23.5	
182/10:58:00	70 03.6	016 04.1	0385	180.0	015	089	20049	19729	1.6	0.7	-1.5	-24.6	
182/10:59:00	69 57.2	016 03.0	0389	180.9	006	070	20061	19716	1.4	-0.4	1.7	-24.6	
182/11:00:00	69 50.7	016 02.7	0393	180.1	007	089	20050	19705	1.4	-0.4	-1.3	-27.0	
182/11:01:00	69 44.2	016 02.5	0394	179.5	008	089	20051	19703	1.4	-0.8	-1.3	-24.6	
182/11:02:00	69 37.5	016 02.2	0396	179.5	007	100	20049	19706	1.4	-0.8	-1.3	-25.8	
182/11:03:00	69 31.1	016 02.1	0396	179.7	006	107	20044	19684	1.3	-0.4	-1.4	-26.1	
182/11:04:11	00 00.0	000 00.0	0000	000.0	000	000	20054	19709	1.2	-0.9	-1.5	-26.5	
182/11:04:53	69 18.6	016 01.6	0397	178.5	006	103	20052	19717	1.3	-0.6	-0.8	-25.6	START OF THE RUN #6 11 03 45
182/11:05:01	69 17.6	016 01.5	0397	178.6	006	115	20050	19704	1.3	-1.1	-0.8	-25.0	
182/11:05:05	69 17.2	016 01.6	0397	178.6	007	134	20051	19757	1.3	-0.8	-1.4	-25.5	LAT 69 25.9N LON 16 01.9E.
182/11:05:11	69 16.8	016 01.8	0397	178.6	005	112	20052	19975	1.2	-0.5	-1.7	-25.4	!!! END OF RUN 6 TIME 11.05.10 LAT 6916.8 N LON 01601.8 E FL 200
182/11:06:44	00 00.0	000 00.0	0000	000.0	000	000	20048	19664	1.3	-0.7	-1.5	-24.7	
182/11:06:50	69 05.7	016 01.3	0397	180.8	008	120	20045	19659	1.3	-0.5	-1.5	-24.3	FIRST REFLECTOR 11 06 24
182/11:07:00	69 04.8	016 01.3	0397	180.8	008	127	20047	19682	1.2	-0.9	-1.3	-25.4	FIRST REFLECTOR 11 06 24.
182/11:07:10	69 03.6	016 01.1	0397	182.1	007	142	20048	19696	2.8	22.8	-1.4	-25.4	!!! END OF RUN 6 TIME 11.07.11 LAT 6903.6 N LON 01601.1 E FL 200
182/11:07:28	69 01.8	015 59.6	0396	212.1	005	156	20125	19766	1.8	33.9	-1.6	-25.4	HE HAD TWO END OF RUN 6 RUNS.
182/11:08:00	69 00.0	015 51.3	0404	270.7	004	107	20076	19693	1.6	33.3	-1.6	-25.7	
182/11:09:00	69 04.5	015 40.4	0407	353.6	005	089	19992	19496	1.0	-0.5	-1.6	-26.0	
182/11:10:00	69 11.3	015 38.3	0409	358.3	006	070	20045	19666	1.1	4.5	-1.0	-26.9	
182/11:11:00	69 18.2	015 38.0	0412	359.7	004	070	20047	19676	1.0	-1.0	-1.4	-25.7	
182/11:12:00	69 24.8	015 37.3	0414	358.6	004	070	20055	19686	0.9	-0.9	-1.9	-26.3	
182/11:13:00	69 31.8	015 36.3	0415	357.4	005	055	20052	19685	0.9	-1.0	-1.8	-26.6	
182/11:14:00	69 38.8	015 35.0	0415	356.1	005	088	20050	19675	0.9	-0.6	-1.6	-25.6	
182/11:15:00	69 45.6	015 33.9	0412	009.2	009	084	20085	19730	1.1	29.9	-1.6	-26.3	
182/11:16:00	69 49.2	015 47.5	0396	096.5	012	099	20068	19720	1.6	28.8	-1.5	-25.0	
182/11:17:00	69 44.6	015 59.6	0397	169.2	009	110	20018	19668	1.3	9.3	-1.6	-25.8	
182/11:18:00	69 38.1	016 01.6	0396	172.6	009	121	20041	19710	1.3	7.4	-1.5	-26.1	
182/11:19:00	69 31.6	016 02.2	0396	178.9	007	126	20049	19696	1.3	0.3	-1.7	-26.7	
182/11:19:10	69 30.5	016 02.2	0396	179.1	008	134	20050	19696	1.2	-0.8	-1.7	-26.2	*** START OF RUN 7 TIME 11.19.09 LAT 6930.5 N LON 01602.2 E FL 200
182/11:20:00	69 25.1	016 02.5	0396	179.3	007	126	20050	19688	1.2	0.0	-2.0	-27.0	
182/11:21:00	69 18.5	016 02.5	0396	178.5	010	140	20057	19700	1.2	-0.2	-1.2	-25.5	
182/11:21:08	69 17.5	016 02.3	0396	178.6	009	140	20037	19680	1.1	0.1	-2.0	-26.5	FIRST REFLECTOR.
182/11:21:46	69 13.4	016 02.1	0396	180.3	009	140	20050	19374	1.1	-0.8	-1.1	-24.6	SECOND REFLECTOR.
182/11:22:00	69 12.0	016 02.3	0396	180.0	008	141	20047	19609	1.1	-1.3	-0.6	-26.5	
182/11:22:22	69 09.4	016 02.1	0396	180.0	010	145	20049	19565	1.2	-0.2	-1.3	-26.0	THIRD REFLECTOR.
182/11:23:00	69 05.0	016 01.9	0396	180.2	011	134	20038	19656	1.1	-0.5	-1.4	-25.8	
182/11:23:08	69 04.5	016 01.9	0396	180.3	011	140	20026	19651	-0.3	-0.3	-1.3	-24.8	!!! END OF RUN 7 TIME 11.23.09 LAT 6904.5 N LON 01601.9 E FL 200
182/11:24:00	68 58.7	016 01.6	0385	180.1	008	169	18461	18092	-2.6	-0.4	-1.4	-21.5	
182/11:25:00	68 52.4	016 01.3	0382	180.7	004	197	15966	15580	-2.2	-1.4	-1.5	-17.6	

YEAR 1994 ADDAS FLIGHT LOG --- FLIGHT NO. 12 --- HIZEX

TIME	LAT	LONG	SPD	GRD TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR
182/11:26:00	68 45.9	016 01.3	0384	180.7	002	250	13266	13069	-2.9	-0.8	-1.8	-12.4
182/11:27:00	68 39.6	016 01.2	0375	180.9	003	258	10509	10134	-3.1	-0.7	-1.4	-7.8
182/11:28:00	68 33.8	016 00.9	0344	181.8	004	300	9101	6703	-2.2	2.9	-1.3	-4.5
182/11:29:00	68 28.1	016 00.5	0320	184.1	010	292	7014	5783	-2.4	-1.0	0.0	-2.9
182/11:30:00	68 23.6	016 02.9	0280	123.5	005	359	5659	5468	1.3	-23.3	0.4	-0.4
182/11:31:00	68 23.6	016 13.4	0227	060.1	007	078	4320	4159	1.0	-11.4	-0.2	0.0
182/11:32:00	68 25.4	016 21.0	0170	073.1	003	116	3315	2994	1.6	0.6	12.5	0.0
182/11:33:00	68 26.1	016 28.6	0165	067.6	002	044	2444	2241	-1.0	-4.8	12.4	0.3
182/11:34:00	68 27.2	016 35.4	0162	077.0	006	276	1515	1421	1.1	-3.4	12.6	5.9
182/11:35:00	68 27.9	016 42.1	0150	051.0	005	326	770	697	0.9	-13.7	12.8	8.1

3.10 Transit Flight—Day 183—Evenes/Sondrestromfjord/Malstrom AFB

This flight plan afforded only a brief encounter with the Greenland MIZ—10-15 minutes worth. Some ice was observed in Hudson Bay.

During our refueling stop at Sondrestromfjord, we were unable to determine the reason for the sudden cancellation of our overnight reservations there. The base seemed largely abandoned, with no large contingents of crews scheduled on the arrivals board. We were left with the uncomfortable impression that the base decided not to accomodate us because of the impending July 4 holiday.

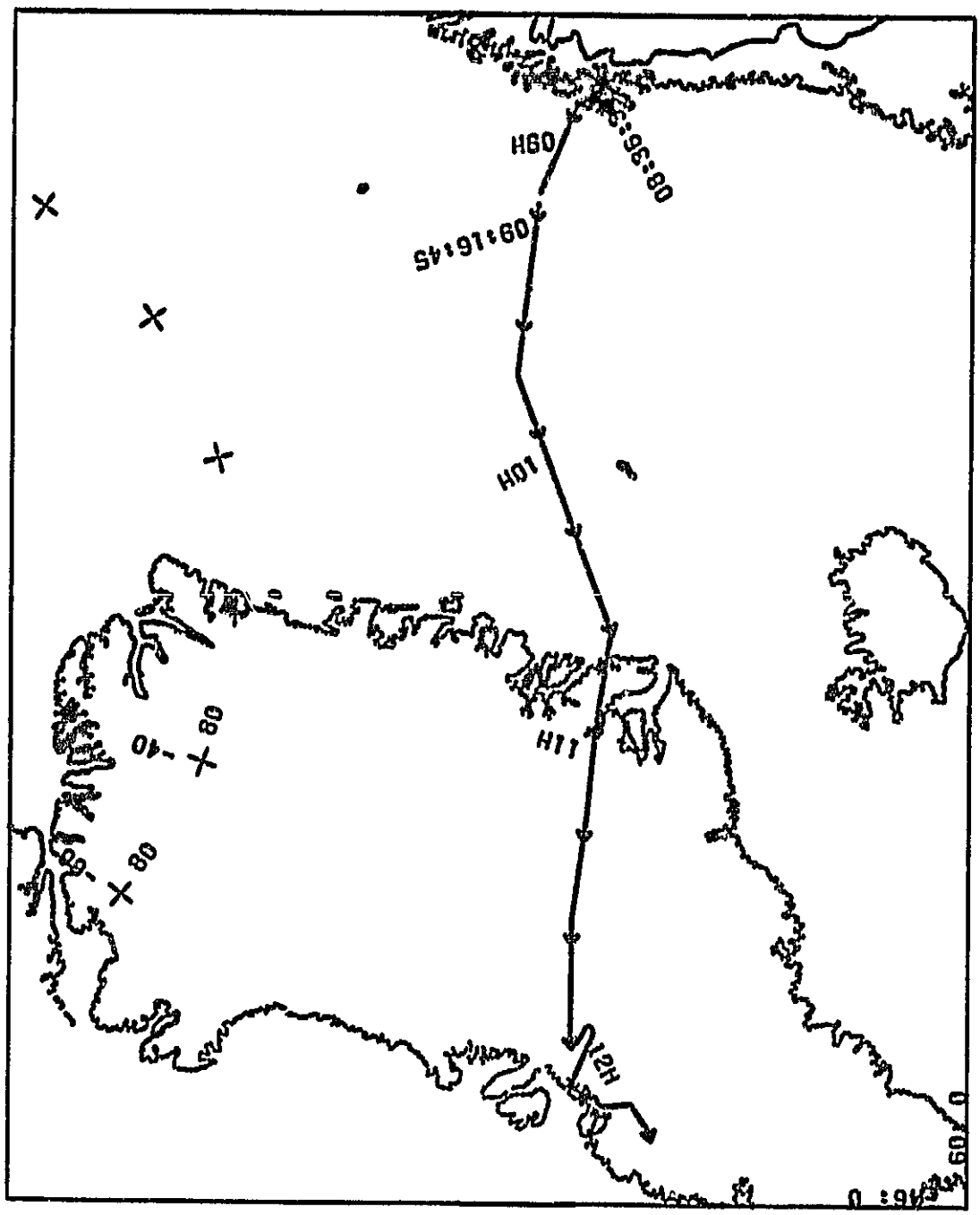

Figure 26. Flight tracks: Evenes/Sondre 7/1

YEAR 1994 ADDAS FLIGHT LOG — FLIGHT NO. 13 — HIZEX

---TIME---	--LAT--	--LONG--	GPS TRUE SPD HEAD	+WIND— SPD DIR	-ALTITUDE— PRES RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
183/08:36:16	00 00.0	000 00.0	0000 000.0	000 000	136 697	0.1	-0.8	29.5	8.0	
183/08:37:00	68 29.3	016 43.0	0006 332.5	111 332	160 895	-1.0	-1.4	26.6	6.8	
183/08:38:00	68 29.3	016 40.9	0009 270.2	103 270	159 896	-0.2	-0.7	25.3	7.7	
183/08:39:00	68 29.5	016 40.7	0019 357.3	098 357	137 897	-1.0	-0.7	20.2	3.0	
183/08:40:00	68 29.9	016 40.8	0019 339.3	099 339	134 896	-0.4	-0.5	17.4	2.2	
183/08:41:00	68 30.1	016 40.8	0005 234.9	114 228	137 897	-1.6	-0.1	15.0	5.2	
183/08:42:00	68 28.7	016 41.0	0174 178.6	010 333	310 895	14.6	-0.2	12.9	5.7	
183/08:43:00	68 26.5	016 36.9	0221 265.1	015 305	1927 1822	10.5	-0.7	11.2	1.1	
183/08:44:00	68 25.9	016 26.1	0261 259.8	009 348	4069 3355	9.8	0.1	10.0	-1.8	
183/08:45:00	68 25.9	016 14.9	0255 323.5	025 018	6770 5052	8.4	31.8	-0.9	-4.9	
183/08:46:00	68 30.0	016 13.4	0265 353.2	015 011	0776 7683	7.6	-1.3	-1.5	-4.2	
183/08:46:32	68 32.3	016 12.4	0279 355.0	014 054	9651 9427	5.4	0.6	-3.5	-6.9	TAKE OFF TIME C3 41 52
183/08:46:36	68 32.8	016 12.4	0282 355.0	011 065	9697 9265	4.6	0.7	-4.3	-7.5	JULIAN DAY 183
183/08:46:40	68 33.0	016 12.4	0286 354.8	009 045	9725 8641	4.7	-0.3	-4.0	-7.6	JULY 1, 1994
183/08:46:44	68 33.4	016 12.1	0293 355.1	011 056	9757 7979	4.6	-0.4	-3.9	-6.2	FLIGHT 13A
183/08:47:00	68 34.6	016 11.6	0310 355.4	011 061	9937 9545	4.0	-0.7	-2.6	-5.1	
183/08:47:12	68 35.6	016 11.4	0321 355.3	012 055	10065 8451	3.6	-0.6	-3.0	-5.6	EVENTS/SCORRESTRON.
183/08:47:26	68 37.0	016 11.0	0334 355.3	013 056	10256 7858	3.6	-0.2	-3.4	-5.8	H/P 1 68-20.1 16-CO.1E
183/08:47:38	68 38.2	016 10.7	0342 355.5	013 054	10452 8022	5.6	-0.3	-2.0	-7.1	H/P 2 69-17.1 16-CO.1E
183/08:47:46	68 38.9	016 10.4	0342 355.5	016 045	10747 9181	5.8	0.2	-2.5	-6.5	H/P 3 71-CO 12-CCE
183/08:47:56	68 39.8	016 10.2	0343 356.2	015 060	11109 9623	6.0	0.0	-1.2	-6.1	H/P 4 73-CO 0-CCE/N
183/08:48:00	68 40.3	016 09.8	0342 356.4	017 055	11264 9968	6.3	0.3	-1.6	-7.2	
183/08:48:06	68 40.8	016 09.6	0341 356.4	019 042	11523 9567	6.3	-0.3	-1.5	-9.7	H/P 5 71-30 20-CCN
183/08:48:16	68 41.8	016 09.5	0339 356.1	019 031	11931 9743	6.4	0.0	-2.9	-11.1	H/P 6 71-36 27-1CN
183/08:48:26	68 42.5	016 09.3	0338 355.3	019 016	12315 11231	5.4	0.0	-3.4	-11.0	H/P 7 71-21.3 33-2CN
183/08:48:40	68 43.9	016 08.9	0342 355.5	017 014	12670 12403	5.2	-0.5	-4.0	-10.7	H/P 8 70-54.6 40-3E.1
183/08:48:52	68 45.1	016 08.6	0343 355.4	021 014	13063 12487	5.4	-0.1	-3.3	-11.4	H/P 1' 69-44.2 43-04.4N
183/08:49:00	68 45.8	016 08.4	0343 355.5	019 017	13304 13062	5.9	0.2	-3.6	-11.1	
183/08:49:02	68 45.9	016 08.2	0344 355.5	020 020	13356 13119	5.0	-0.2	-4.1	-11.3	H/P 2' 69-20 47-CCN
183/08:49:14	68 47.1	016 08.1	0345 355.7	020 016	13750 12696	5.2	-0.1	-4.1	-11.1	H/P 3' 69-12.5 50-1E.CN
183/08:49:36	68 49.0	016 07.5	0347 355.8	022 017	14338 13429	5.5	-0.9	-9.0	-15.3	H/P 9 67-01 51-43 ESSF.
183/08:50:00	68 51.0	016 06.9	0351 354.8	019 027	15067 14623	4.7	-0.3	-6.9	-16.6	
183/08:51:00	68 53.5	016 06.2	0361 354.4	018 032	15694 15434	4.7	-0.5	-12.1	-17.5	
183/08:52:00	68 55.4	016 05.8	0364 354.5	023 035	16163 15406	3.9	0.0	-16.1	-20.1	
183/08:53:00	69 09.5	016 02.0	0374 354.6	024 335	19848 19495	4.9	1.1	-14.5	-23.9	
183/08:54:00	69 15.8	016 00.2	0383 346.3	021 349	21355 21370	3.7	-14.4	-15.6	-26.5	
183/08:55:00	69 21.4	015 51.6	0393 327.0	028 000	22739 22525	3.7	-2.0	-16.6	-29.4	
183/08:56:00	69 26.7	015 40.5	0404 326.0	024 013	23705 23501	2.9	-1.3	-17.5	-32.1	
183/08:57:00	69 32.3	015 28.7	0412 325.5	026 010	24672 24466	3.8	-0.5	-20.2	-35.0	
183/08:58:00	69 37.7	015 16.6	0415 325.2	026 007	25742 25566	3.4	-0.6	-17.1	-34.7	
183/08:59:00	69 43.1	015 04.9	0422 325.0	025 009	26655 26449	3.1	-0.6	-10.3	-37.7	
183/08:59:30	69 46.1	014 58.6	0423 325.2	029 006	27149 26958	4.4	-0.4	-10.3	-38.6	
183/09:00:00	69 48.9	014 52.3	0423 325.1	030 003	27603 27507	2.9	-0.3	-15.4	-40.6	
183/09:01:00	69 54.4	014 39.6	0429 325.3	034 011	28500 28309	2.9	-0.2	-19.6	-40.1	
183/09:02:00	69 59.9	014 27.2	0423 325.8	040 014	29696 29513	3.7	-0.8	-19.2	-43.7	
183/09:03:00	70 05.5	014 14.3	0419 325.7	043 012	30725 30591	3.9	0.0	-20.5	-47.4	
183/09:04:00	70 10.9	014 01.4	0431 326.3	043 014	31050 30848	2.3	-0.1	-15.0	-46.7	
183/09:05:00	70 16.5	013 48.4	0441 325.3	041 014	30997 30833	2.1	-0.4	-10.0	-44.8	
183/09:06:00	70 22.4	013 34.8	0441 325.5	042 010	30933 30846	2.2	-0.3	-9.3	-44.4	
183/09:07:00	70 28.1	013 20.5	0442 325.1	041 019	30997 30856	2.2	-0.3	-9.3	-47.6	
183/09:08:00	70 33.6	013 06.7	0444 325.5	044 023	30939 30966	2.1	0.1	-8.6	-46.4	
183/09:09:00	70 39.5	012 52.1	0444 325.3	043 022	30938 31075	2.2	-0.5	-8.2	-47.8	
183/09:10:00	70 45.2	012 38.4	0444 324.4	041 018	30935 30831	2.2	0.3	-7.7	-47.6	
183/09:11:00	70 50.9	012 24.1	0443 324.3	039 021	30953 30855	2.2	0.0	-6.4	-46.9	
183/09:12:00	70 56.6	012 09.3	0443 324.1	038 024	30937 30902	2.3	-0.7	-5.4	-46.1	
183/09:14:37	00 00.0	000 00.0	0000 000.0	000 000	30968 30927	2.3	-0.9	-1.7	-46.3	
183/09:15:01	71 10.0	011 14.5	0454 307.9	038 024	30960 30928	2.4	-0.6	-2.1	-45.4	
183/09:16:01	71 14.1	010 55.0	0454 307.4	036 021	31003 30952	2.3	-0.9	-2.3	-45.2	
183/09:17:01	71 18.3	010 34.6	0457 306.7	034 023	30976 30958	2.1	-0.1	-1.4	-47.7	
183/09:17:03	71 18.4	010 34.3	0457 306.7	034 022	30973 30956	2.2	-0.2	-1.5	-46.0	.0044

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- NIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
183/09:18:01	71 22.3	010 15.0	0459	307.0	037	024	30933	30967	2.3	-0.2	-0.3	-47.9	
183/09:19:01	71 26.4	009 54.8	0459	306.4	039	026	30975	30968	2.2	0.0	2.0	-47.2	
183/09:20:01	71 30.5	009 34.1	0459	306.7	039	024	30939	30978	2.5	-1.2	3.0	-46.1	
183/09:21:01	71 34.3	009 13.6	0460	305.8	038	025	31000	31006	2.0	-0.3	3.0	-47.1	
183/09:22:01	71 38.3	008 53.1	0460	305.7	038	025	31003	30997	1.9	-0.2	0.5	-45.0	
183/09:23:01	71 42.3	008 31.8	0461	305.1	035	028	30979	30990	2.2	-0.4	-0.8	-44.5	
183/09:24:01	71 46.2	008 10.9	0461	304.6	034	026	30935	31034	2.0	-0.4	2.1	-45.9	
183/09:25:01	71 49.9	007 50.2	0461	304.2	034	021	30923	31028	2.3	-0.4	-0.0	-46.8	
183/09:26:01	71 53.8	007 28.5	0461	303.9	032	025	30994	31061	2.1	-0.7	3.0	-47.0	
183/09:27:01	71 57.5	007 07.3	0462	303.1	031	022	30988	31059	2.1	-0.4	3.5	-45.6	
183/09:28:01	72 01.3	006 45.4	0463	302.4	029	019	30939	31052	2.2	-0.4	4.4	-45.9	
183/09:29:01	72 05.0	006 23.2	0463	302.5	028	022	30983	31032	2.1	-0.4	3.9	-45.6	
183/09:30:01	72 08.7	006 01.5	0463	301.7	027	019	30937	31094	2.1	-0.5	2.3	-46.8	
183/09:31:01	72 12.3	005 39.6	0464	301.0	025	022	30936	31104	1.9	-0.4	2.1	-46.2	
183/09:32:01	72 16.1	005 16.4	0464	300.5	024	018	30931	31035	2.0	-0.2	2.7	-48.0	
183/09:33:01	72 19.6	004 54.4	0464	299.8	023	017	30978	31102	2.1	-0.6	3.1	-46.6	
183/09:34:01	72 23.0	004 32.1	0464	299.4	021	018	30950	31093	2.2	-0.5	4.2	-47.0	
183/09:35:01	72 26.5	004 08.6	0462	298.8	018	016	30985	31116	2.1	-0.7	4.1	-47.0	
183/09:36:01	72 29.9	003 46.1	0463	298.5	019	012	30992	31107	2.2	-1.0	4.2	-46.6	
183/09:37:01	72 33.3	003 23.3	0465	298.1	017	010	30932	31117	2.0	-0.6	3.5	-46.0	
183/09:38:01	72 36.6	002 59.9	0463	297.2	015	010	30993	31159	2.0	-1.0	2.1	-46.6	
183/09:39:01	72 39.0	002 36.4	0463	296.7	014	008	30922	31112	2.1	-0.5	1.8	-48.0	
183/09:40:01	72 43.1	002 13.4	0463	296.1	012	008	30997	31127	1.8	-0.6	1.0	-46.3	
183/09:41:01	72 46.3	001 49.2	0464	295.5	012	350	30960	31100	2.1	-0.3	0.8	-45.7	
183/09:42:01	72 49.5	001 25.4	0464	295.0	011	354	30904	31132	2.1	-0.8	1.3	-47.1	
183/09:43:01	72 52.6	001 02.0	0464	294.6	011	346	30995	31139	2.0	-0.8	1.4	-45.8	
183/09:44:01	72 55.7	000 37.9	0463	294.2	011	327	30907	31142	1.9	-0.8	1.2	-45.2	
183/09:45:01	72 58.6	000 13.7	0461	293.6	012	325	30977	31135	2.0	-0.5	0.9	-46.3	
183/09:45:57	73 00.0-000	10.1	0460	269.4	010	311	30959	31161	2.0	-4.6	0.9	-47.8	ADDAS CHECKLIST DONE WITH MCC - EVERYTHING IS OKAY.
183/09:46:01	73 00.0-000	11.3	0460	268.6	010	317	30995	31147	2.0	-3.8	1.0	-46.1	
183/09:47:01	72 59.5-000	37.9	0459	266.7	014	312	30992	31152	2.0	-1.0	0.7	-46.7	
183/09:48:01	72 58.8-001	03.9	0458	266.2	016	315	30974	31139	2.1	-0.4	0.9	-46.9	
183/09:49:01	72 58.0-001	28.9	0457	265.7	014	311	30993	31143	2.0	0.0	1.2	-47.3	
183/09:50:01	72 57.3-001	55.5	0457	264.8	011	313	30977	31124	2.2	-0.7	1.8	-46.8	
183/09:51:01	72 56.5-002	20.9	0464	265.0	012	307	31571	31720	3.2	-1.3	1.9	-48.6	
183/09:52:01	72 55.7-002	46.4	0451	263.8	015	282	32097	33062	3.4	-0.[illegible]	2.6	-51.2	
183/09:53:01	72 56.7-003	12.3	0443	263.2	012	279	33864	34047	3.6	-0.6	2.7	-54.4	
183/09:54:01	72 53.8-003	36.4	0442	262.6	009	273	34509	34693	3.4	-0.5	2.6	-53.6	
183/09:55:01	72 52.7-004	01.1	0443	261.8	011	255	34954	35133	2.9	-0.9	2.4	-54.3	
183/09:56:01	72 51.6-004	26.4	0453	261.4	011	251	34956	35105	2.7	-0.1	1.0	-56.2	
183/09:57:01	72 50.5-004	51.3	0450	260.7	011	250	34937	35099	2.7	-0.2	2.0	-53.7	
183/09:58:01	72 49.3-005	16.3	0445	260.8	011	264	34947	35117	2.8	-0.7	1.7	-56.0	
183/09:59:01	72 48.2-005	41.3	0441	260.9	014	271	34986	35127	2.7	-1.1	-0.2	-56.9	
183/10:00:01	72 47.0-006	05.2	0438	260.1	013	262	34940	35124	2.9	-1.0	0.1	-55.6	
183/10:01:01	72 45.7-006	29.1	0437	259.5	016	256	34948	35123	2.9	-1.0	0.5	-55.0	
183/10:02:01	72 44.3-006	53.9	0435	259.0	019	251	34957	35122	2.9	-0.7	1.5	-55.3	
183/10:03:01	72 42.9-007	17.3	0434	258.6	024	251	34957	35106	2.7	0.0	0.2	-56.8	
183/10:04:01	72 41.6-007	40.7	0432	257.7	025	240	34946	35104	2.8	-0.5	0.3	-56.9	
183/10:05:01	72 40.1-008	04.6	0431	257.2	025	241	34952	35112	2.6	-0.4	0.5	-56.9	
183/10:06:01	72 38.6-008	28.4	0430	257.5	027	240	34961	35117	2.7	-0.9	0.5	-55.9	
183/10:07:01	72 37.3-008	50.9	0429	255.9	030	236	34951	35114	2.8	-0.5	0.2	-55.8	
183/10:08:01	72 35.5-009	14.8	0428	255.3	030	233	34945	35099	2.7	-0.4	0.1	-57.2	
183/10:09:01	72 34.0-009	37.5	0427	254.9	034	229	34953	35093	2.6	-0.4	0.4	-57.4	
183/10:10:01	72 32.3-010	00.5	0426	254.1	035	226	34958	35094	2.6	-0.4	-0.1	-56.7	
183/10:11:01	72 30.6-010	23.8	0426	253.6	031	223	34953	35077	2.8	-0.5	-0.3	-54.7	
183/10:12:01	72 28.8-010	46.3	0425	254.1	027	230	34945	35097	2.8	0.2	-0.6	-54.8	
183/10:13:01	72 27.1-011	08.4	0426	253.5	030	228	34942	35078	2.9	-0.6	-0.4	-55.5	
183/10:14:01	72 25.2-011	32.0	0427	252.6	030	218	34947	35091	2.7	-0.8	-1.0	-57.1	
183/10:15:01	72 23.4-011	54.3	0428	251.8	032	211	34957	35093	2.7	-0.6	-0.9	-55.1	
183/10:16:01	72 21.4-012	16.6	0428	251.0	039	213	34954	35073	2.9	-0.7	-1.7	-54.5	

YEAR 1934 ARDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	-TEMP- IR	AIR	
183/10:17:01	72	19.5-012 39.7	0428	250.4	038	209	34943	35035	2.8	-1.0	-1.4	-56.7	
183/10:18:01	72	17.5-013 02.0	0428	250.0	038	208	34966	35009	2.7	-0.6	-1.5	-55.2	
183/10:19:01	72	15.4-013 24.0	0429	249.8	035	210	34942	34990	2.8	-0.6	-1.6	-55.0	
183/10:20:01	72	13.2-015 46.9	0429	249.8	033	207	34944	35017	2.9	-0.7	-1.4	-53.3	
183/10:21:01	72	11.1-014 08.9	0429	249.3	034	203	34960	35026	2.8	-0.4	-1.2	-54.0	
183/10:22:01	72	08.9-014 30.8	0431	249.7	028	213	34934	34993	2.7	-0.5	-1.4	-52.9	
183/10:23:01	72	06.7-014 53.6	0432	249.0	031	211	34961	35005	2.5	-0.6	-1.1	-53.3	
183/10:24:01	72	04.5-015 15.2	0434	248.5	033	209	34967	34962	2.6	-0.6	-0.6	-53.5	
183/10:25:01	72	02.1-015 37.3	0434	248.1	034	214	34976	34952	2.5	-1.2	-1.2	-52.3	
183/10:26:01	71	59.6-015 59.9	0435	248.3	034	219	34953	34989	2.4	-0.7	-0.9	-52.4	
183/10:27:01	71	57.2-016 21.6	0436	248.2	032	218	34953	34920	2.4	-0.7	-1.1	-52.3	
183/10:28:01	71	55.0-016 43.5	0435	248.3	034	225	34972	34916	2.4	-0.5	-1.3	-52.9	
183/10:29:01	71	52.3-017 05.6	0433	247.6	032	225	34943	34903	2.5	-0.8	-1.0	-50.7	
183/10:30:01	71	49.7-017 27.0	0432	247.8	033	230	34946	34897	2.6	-0.4	-1.9	-51.5	
183/10:31:01	71	47.2-017 48.0	0430	247.4	034	229	34939	34897	2.6	-0.8	-1.7	-51.3	
183/10:31:51	71	45.0-018 06.0	0429	247.2	034	231	34960	34903	2.7	-0.4	-1.1	-51.7	GENERALLY CLOUDY OVER THE OCEAN, OVER BROKEN SEA ICE ABOUT 50 PERCENT.
183/10:32:01	71	44.5-018 09.8	0428	247.3	034	232	34956	34927	2.5	-0.2	-1.3	-50.2	
183/10:33:01	71	42.0-018 30.7	0427	247.2	036	234	34948	34917	2.6	-0.9	-0.6	-51.5	
183/10:34:01	71	39.4-018 51.3	0427	247.0	035	235	34953	34921	2.4	-0.7	-0.4	-52.1	
183/10:35:01	71	36.6-019 12.5	0426	246.7	036	236	34967	34911	2.4	-0.9	-1.6	-52.7	
183/10:35:03	71	36.6-019 13.4	0426	246.7	036	237	34964	34919	2.4	-0.7	-1.6	-52.7	10 PERCENT CI 45 CAMERA.
183/10:35:19	71	35.7-019 18.6	0426	247.0	034	240	34964	34915	2.4	-0.3	-1.7	-50.5	GOING OVER AI ENORMOUS FLOE, 50 PERCENT COVERED LIGHT FLUFF MELT PONDS.
183/10:36:01	71	33.9-019 32.9	0426	246.2	035	236	34960	34910	2.4	-1.2	-1.7	-51.2	
183/10:36:05	71	33.8-019 34.2	0426	246.4	034	241	34947	34894	2.8	-0.5	-1.7	-51.6	ALOT OF VERY LARGE FLOES.
183/10:36:57	71	31.3-019 52.3	0425	247.7	033	251	34956	34907	3.1	15.4	-1.3	-50.1	5 NAUTICAL MILES ACROSS - FLOES.
183/10:37:01	71	31.2-019 53.6	0425	250.5	034	250	34932	34948	2.7	10.1	-0.3	-51.5	
183/10:37:07	71	30.9-019 55.9	0425	255.7	032	254	34955	34903	2.6	16.6	-0.3	-52.0	10 37 CO W/P 5.
183/10:38:01	71	30.8-020 16.1	0427	271.7	032	247	34952	34899	2.6	1.2	-0.6	-50.6	
183/10:38:49	71	31.2-020 33.2	0428	272.9	031	246	34953	34894	2.6	-0.4	-0.4	-48.6	CI APPROACH 50 PERCENT CLOUD COVER.
183/10:38:59	71	31.3-020 37.4	0428	273.0	032	244	34943	34887	2.7	-0.4	-1.0	-50.8	BROKEN STRATOCUMULUS OVER SEA ICE.
183/10:39:01	71	31.3-020 38.1	0428	273.2	031	246	34943	34901	2.7	-0.1	-1.0	-50.1	
183/10:40:01	71	31.9-021 00.5	0427	272.8	031	250	34953	34895	2.7	-0.4	-1.0	-50.2	
183/10:41:01	71	32.6-021 23.2	0427	272.4	030	239	34950	34901	2.8	0.0	-0.2	-49.6	
183/10:41:53	71	33.0-021 42.3	0426	272.0	031	238	34963	35002	2.7	-0.6	5.9	-48.9	PASSING ICE EDGE CI GREENLAND GLACIER.
183/10:42:01	71	33.0-021 45.0	0426	271.9	031	236	34948	34891	2.6	-0.8	0.4	-50.4	
183/10:43:01	71	33.5-022 07.4	0426	271.5	030	234	34955	34893	2.8	-0.7	0.4	-49.6	
183/10:44:01	71	34.1-022 29.9	0428	271.1	030	232	34971	34840	2.6	-0.8	4.3	-50.0	
183/10:44:31	71	34.2-022 40.4	0429	271.0	030	235	34947	35014	2.8	-0.6	11.7	-51.5	THIN BAND OF SMOKE FAST ICE.
183/10:44:43	71	34.3-022 45.4	0430	270.8	031	237	34961	34223	2.5	-0.7	1.8	-50.0	FROZEN PONDS AND BAND OUT CROPPINGS.
183/10:44:55	71	34.5-022 50.3	0430	270.8	031	236	34956	33594	2.9	-0.6	6.0	-50.7	GENERAL HAZE.
183/10:44:57	71	34.5-022 51.0	0430	270.8	031	237	34965	33599	2.7	-0.6	7.7	-50.0	CO CLOUDS.
183/10:45:01	71	34.5-022 52.0	0430	270.8	031	236	34959	32703	2.5	-0.7	9.8	-50.0	
183/10:46:01	71	34.9-023 14.9	0433	270.6	032	238	34964	35037	2.5	-0.8	2.6	-48.5	
183/10:46:09	71	34.9-023 18.2	0433	270.4	032	230	34959	34143	2.5	-0.5	5.0	-50.2	NADIR CAMERA IS AT 60 PERCENT.
183/10:47:37	00	00.0 000 00.0	0000	000.0	000	000	34953	33959	2.6	-0.5	12.4	-50.7	
183/10:48:01	71	35.5-024 00.6	0437	269.9	029	232	34957	33657	2.6	-0.7	14.4	-48.8	
183/10:48:09	71	35.5-024 03.4	0437	269.9	030	233	34957	33495	2.5	-0.8	23.0	-49.4	CAMERAS CI AT 10 48 CO.
183/10:48:25	71	35.6-024 09.3	0437	269.6	029	229	34945	33673	2.6	-0.6	15.1	-49.2	OVER MAINLY OUT CROPPING WITH ALITTLE SNOW.
183/10:49:01	71	35.7-024 23.3	0438	269.5	029	233	34959	34655	2.6	-0.7	7.7	-48.8	
183/10:49:23	71	35.9-024 31.0	0438	269.1	032	234	34948	32371	2.4	-0.3	12.3	-49.1	NADIR 3 CAMERA IS CI 60 PERCENT OVERLAP.
183/10:50:01	71	35.9-024 46.9	0438	269.2	032	239	34951	31807	2.7	-0.2	-6.5	-49.8	
183/10:50:05	71	35.9-024 48.0	0437	269.2	033	241	34967	31603	2.2	0.1	-2.8	-49.0	SNOW COVER IS BECOMING A GREATER FRACTION IN THE FIELD OF VIEW.
183/10:50:21	71	36.1-024 54.7	0437	268.6	032	231	34951	31257	2.4	-0.9	-7.5	-49.5	30 TO 40 PERCENT COVER.
183/10:51:01	71	36.1-025 09.7	0438	268.1	034	232	34948	29909	2.5	-0.4	1.1	-49.1	
183/10:52:01	71	36.3-025 32.5	0436	268.5	033	234	34965	32216	2.4	-0.9	6.2	-48.5	
183/10:52:43	71	36.3-025 49.1	0436	267.9	034	236	34950	34094	2.3	-0.4	11.0	-49.3	NADIR 4 AT 10 PERCENT OVERLAP.
183/10:53:01	71	36.3-025 55.8	0436	267.8	034	234	34930	30098	2.4	0.0	-2.5	-50.1	
183/10:53:37	71	36.3-026 09.6	0436	267.2	035	235	34957	29571	2.6	-0.8	16.3	-48.6	A FEW CUT CROPPINGS OF LAND - CO PERCENT STILL COVER ICE.
183/10:53:43	71	36.2-026 11.5	0436	267.2	035	235	34950	35029	2.2	-0.3	-2.6	-49.5	LOOKS LIKE SMALL ICE CAP.
183/10:54:01	71	36.3-026 18.4	0436	267.0	032	230	34970	29718	2.3	-0.5	8.4	-48.4	

YEAR 1994 ARDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-HDG- HDG	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	-TEMP- IR	AIR	
183/10:55:01	71 36.2-026	41.1	0436	266.6	038	232	34955	29759	2.5	-0.2	0.7	-49.2	
183/10:55:05	71 36.1-026	42.7	0436	266.6	038	232	34960	29660	2.3	-0.4	-0.6	-49.9	PASSING OVER AN AREA THAT IS ALMOST DEVOID OF ICE - HAS NO SIGN ON IT.
183/10:56:01	71 36.1-027	04.3	0437	266.5	032	227	34930	31954	2.5	-0.6	0.1	-49.4	
183/10:56:35	71 36.1-027	17.1	0437	265.1	032	224	34951	34751	2.3	-2.3	-0.4	-49.7	OPEN WATER WITH ICE CREEK AND POSSIBLY SEA ICE.
183/10:56:37	71 36.1-027	18.3	0437	265.0	033	228	34949	34745	2.4	-2.2	-0.1	-49.6	*** START OF RUN 1 TIME 10.55.39 LAT 7136.1 N LON C2719.1 W FL 349
183/10:57:01	71 35.7-027	27.5	0437	264.0	033	230	34955	34741	2.4	-1.2	-0.1	-49.5	
183/10:58:01	71 35.4-027	50.2	0437	263.3	033	232	34965	34937	2.3	-0.6	20.2	-49.9	
183/10:58:43	71 34.9-028	06.4	0438	262.8	034	232	34956	37659	2.4	-0.7	-1.2	-47.7	STARBOARD SIDE A FEW ICE CAPS OFF IN THE DISTANCE, BUT BELOW 45 DEGREES OUT.
183/10:58:53	71 34.8-028	09.8	0438	262.8	033	229	34938	34556	2.4	-0.6	-3.0	-47.2	IT IS ENTIRELY DARK BLUE.
183/10:59:01	71 34.7-028	13.1	0438	262.7	034	234	34936	20443	2.6	-0.6	-2.9	-48.5	
183/11:00:01	71 34.1-028	36.0	0436	262.0	035	228	34959	29928	2.4	-0.5	16.8	-49.5	
183/11:01:01	71 33.4-028	58.6	0434	261.9	043	237	34941	27626	2.4	-0.1	-5.7	-49.6	
183/11:02:01	71 32.7-029	21.4	0428	261.1	041	232	34955	28123	2.4	-0.8	-5.6	-48.3	
183/11:03:01	71 31.9-029	43.7	0425	260.6	038	228	34963	29543	2.6	-0.3	-2.9	-47.8	
183/11:03:31	71 31.5-029	55.1	0424	260.4	041	225	34968	29255	2.4	-0.4	-3.0	-48.2	OVER MAIN ICE CAP.
183/11:04:01	71 31.1-030	05.7	0424	260.3	045	232	34974	28953	2.4	-0.1	-4.2	-47.1	
183/11:05:01	71 30.2-030	28.1	0421	259.5	046	229	34940	27603	2.6	-0.7	-7.3	-49.4	
183/11:06:01	71 29.4-030	49.7	0420	259.6	047	233	34955	27197	2.5	-0.8	-8.4	-46.8	
183/11:07:01	71 28.4-031	10.9	0419	259.6	046	236	34954	26572	2.6	-0.4	-9.0	-47.7	
183/11:08:01	71 27.4-031	32.7	0418	259.4	047	235	34953	26312	2.5	-0.8	-10.1	-47.5	
183/11:09:01	71 26.4-031	54.1	0417	259.0	046	237	34961	26111	2.6	-0.7	-10.6	-47.2	
183/11:10:01	71 25.4-032	15.5	0417	258.8	049	236	34942	25867	2.7	-0.8	-10.9	-47.5	
183/11:11:01	71 24.3-032	37.6	0415	258.3	049	237	34945	25697	2.5	-0.5	-11.4	-46.7	
183/11:12:01	71 23.2-032	58.5	0414	258.5	050	240	34949	25561	2.5	-0.5	-11.7	-49.0	
183/11:13:01	71 21.9-033	19.6	0414	257.9	050	239	34949	25338	2.5	-1.1	-12.5	-47.8	
183/11:13:25	71 21.6-033	28.2	0413	258.5	049	242	34947	25283	2.4	0.5	-12.4	-48.0	!!! END OF RUN 1 TIME 11.13.24 LAT 7121.6 N LON C3503.2 W FL 349
183/11:13:27	71 21.6-033	28.9	0413	258.6	049	241	34945	25277	2.5	0.7	-12.5	-46.7	:::2
183/11:13:31	71 21.5-033	30.5	0414	258.6	048	241	34940	25293	2.5	0.6	-12.4	-46.6	:::2
183/11:13:37	71 21.3-033	32.1	0414	259.9	046	240	34941	25270	2.6	0.6	-12.3	-47.2	*** START OF RUN 2 TIME 11.13.53 LAT 7121.3 N LON C3532.9 W FL 349
183/11:14:01	71 21.0-033	41.1	0413	259.3	046	238	34953	25169	2.5	-0.1	-12.6	-47.3	
183/11:15:01	71 19.9-034	02.2	0414	259.1	049	234	34959	25106	2.6	-0.4	-12.7	-47.0	
183/11:16:01	71 18.9-034	23.4	0417	258.8	047	233	34959	24931	2.6	-0.6	-13.8	-47.0	
183/11:17:01	71 18.0-034	45.4	0420	258.6	047	234	34960	24816	2.6	-0.7	-13.8	-46.1	
183/11:18:01	71 16.9-035	06.8	0422	258.5	044	234	34956	24681	2.5	-0.7	-14.0	-45.4	
183/11:19:01	71 15.8-035	28.2	0424	258.8	046	242	34950	24566	2.5	-0.6	-14.5	-45.7	
183/11:19:55	71 14.6-035	47.3	0425	258.4	044	241	34957	24517	2.3	-0.8	-14.6	-44.5	CAMERAS OFF.
183/11:20:01	71 14.5-035	50.0	0425	258.5	045	241	34950	24467	2.4	-0.9	-14.4	-44.6	
183/11:21:01	71 13.4-036	11.5	0426	258.2	043	240	34951	24394	2.4	-0.5	-14.5	-45.2	
183/11:21:31	71 12.8-036	22.7	0427	257.5	043	237	34951	24331	2.3	-1.7	-14.6	-47.6	VOID ABOVE CAMERAS OFF.
183/11:22:01	71 12.1-036	32.9	0428	257.6	041	238	34956	24352	2.4	0.0	-14.4	-48.0	
183/11:23:01	71 10.8-036	55.3	0431	257.5	038	238	34955	24273	2.5	-0.1	-14.9	-47.3	
183/11:24:01	71 09.4-037	16.8	0433	257.7	039	242	34950	24212	2.2	-0.3	-14.4	-45.3	
183/11:25:01	71 08.0-037	38.4	0435	257.4	035	241	34962	24261	2.1	-0.5	-14.0	-46.7	
183/11:26:01	71 06.6-038	00.5	0438	257.4	031	244	34967	24322	2.3	-0.5	-12.6	-48.5	
183/11:27:01	71 05.0-038	22.5	0439	256.8	033	241	34943	24370	2.1	-0.7	-12.6	-48.0	
183/11:28:01	71 03.5-038	44.1	0438	256.3	033	240	34949	24441	2.4	-0.4	-12.3	-48.9	
183/11:29:01	71 01.9-039	06.7	0437	256.4	030	240	34832	24485	1.7	0.2	-15.2	-48.9	
183/11:30:01	71 00.2-039	28.1	0439	256.4	028	249	34492	24167	1.1	-0.8	-15.4	-49.8	
183/11:31:01	70 58.7-039	49.9	0441	256.2	041	239	33775	23466	1.1	-0.3	-15.3	-49.3	
183/11:32:01	70 57.2-040	12.4	0441	256.2	040	240	33126	22915	0.8	-0.3	-15.3	-49.9	
183/11:33:01	70 55.5-040	34.1	0437	254.6	047	238	32830	22726	3.0	-10.9	-15.0	-50.2	
183/11:33:55	70 53.5-040	52.5	0428	243.7	043	234	32946	22948	1.9	-5.5	-14.5	-50.0	!!! END OF RUN 2 TIME 11.33.56 LAT 7053.3 N LON C4033.1 W FL 329
183/11:34:01	70 53.2-040	54.3	0428	242.6	042	235	32949	22971	2.0	-2.2	-14.6	-52.1	
183/11:35:01	70 50.2-041	13.9	0421	245.4	040	233	32947	23055	2.2	0.2	-14.6	-51.5	
183/11:36:01	70 47.3-041	33.3	0418	246.2	038	234	32952	23222	2.1	-0.6	-14.9	-52.4	
183/11:37:01	70 44.8-041	52.6	0421	245.9	039	229	32957	23316	2.1	-0.6	-13.8	-50.5	
183/11:38:01	70 42.1-042	12.5	0423	245.5	038	230	32969	23438	2.1	-0.6	-13.9	-51.9	
183/11:39:01	70 39.3-042	31.9	0426	245.2	037	228	32966	23595	1.9	-0.4	-12.9	-51.7	
183/11:40:01	70 36.4-042	51.3	0429	245.0	038	229	32966	23720	1.9	-1.1	-12.9	-52.2	
183/11:41:01	70 33.6-043	11.1	0432	244.6	034	223	32961	23928	1.9	-0.8	-12.9	-52.6	

YEAR 1994 AOCAS FLIGHT LOG --- FLIGHT NO. 13 --- HIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
183/11:42:01	70 30.6-043	30.9	0434	244.5	034	228	32959	23991	2.0	-0.6	-9.4	-51.8	
183/11:43:01	70 27.7-043	30.4	0436	244.1	036	226	32952	24163	1.8	-1.0	-7.0	-52.4	
183/11:44:01	70 24.7-044	30.7	0435	243.8	037	227	32962	24321	1.8	-0.8	-9.5	-50.3	
183/11:45:01	70 21.6-044	29.8	0433	243.5	035	228	32959	24499	2.0	-0.7	-9.2	-52.0	
183/11:46:01	70 18.5-044	49.0	0431	243.5	037	230	32952	24755	2.2	-0.8	-7.3	-52.5	
183/11:47:01	70 15.5-045	08.3	0428	243 ;	035	228	32942	24922	2.0	-0.6	-6.7	-53.2	
183/11:47:57	70 12.5-045	25.7	0426	242.7	034	225	32947	25068	2.0	-0.6	-6.4	-51.6	HAVE BEEN IN RE-ENTERING 50 PER CENT CLOUD COVER.
183/11:48:01	70 12.3-045	27.1	0426	242.5	034	226	32955	25092	2.1	-0.6	-6.5	-51.7	
183/11:49:01	70 09.1-045	45.7	0425	242.1	036	223	32961	25260	2.3	-0.9	-6.5	-52.6	
183/11:50:01	70 06.1-046	04.6	0424	241.6	034	218	32946	25544	2.3	-0.7	-5.6	-51.9	
183/11:51:01	70 02.8-046	22.7	0423	241.4	034	220	32958	25771	2.1	-0.4	-5.3	-51.8	
183/11:51:03	70 02.8-046	23.3	0423	241.4	034	220	32958	25766	2.1	-0.6	-5.2	-52.1	6' LAT 69 [illegible] LON 50 15H.
183/11:51:15	70 02.2-046	26.8	0423	241.4	033	219	32957	25810	2.1	-0.4	-5.3	-51.6	5' LAT 67 [illegible] LON 49 45H.
183/11:51:29	70 01.4-046	30.8	0423	241.2	033	219	32960	25868	2.1	-1.0	-5.3	-52.3	CORRECTION: 4/7 LAT 59 [illegible] LON 50 50H.
183/11:52:01	69 59.8-046	40.9	0425	241.0	032	218	32957	25954	2.2	-1.0	-4.8	-52.7	
183/11:53:01	69 56.5-046	59.5	0429	240.8	032	215	32954	26147	2.0	-0.9	-4.4	-53.1	
183/11:54:01	69 53.1-047	17.8	0431	240.5	032	218	32969	26401	1.9	-0.5	-3.8	-52.9	
183/11:55:01	69 49.8-047	36.0	0434	240.4	032	217	32957	26719	1.8	-0.6	-3.5	-51.6	
183/11:55:03	69 49.7-047	36.3	0434	240.3	032	215	32953	26732	1.8	-0.7	-3.6	-53.0	OVER CLEAR CONDITIONS ICE - AIR.
183/11:55:29	69 48.2-047	44.8	0435	240.2	030	214	32953	26886	1.9	-0.7	-3.6	-52.2	RUN 3 STARTED WHEN RUN 2 ENDED.
183/11:56:01	69 46.4-047	54.6	0436	240.0	029	214	32962	27009	1.9	-0.7	-3.4	-51.7	
183/11:56:33	69 44.5-048	04.1	0437	239.7	031	212	32955	27196	1.8	-0.8	-3.1	-51.9	!!! END OF RUN 3 TIME 11.56.32 LAT 6944.5 N LON C4804.1 W FL 329
183/11:57:01	69 42.8-048	12.5	0431	222.6	033	197	33038	27489	2.8-29.8		-3.2	-53.1	
183/11:58:01	69 36.1-048	13.6	0449	144.0	026	197	33019	27620	2.0-29.8		-3.3	-53.0	
183/11:59:01	69 33.8-047	52.7	0480	093.1	028	201	32895	27148	1.8	-0.6	-3.5	-52.9	
183/12:00:01	69 33.0-047	30.4	0474	097.0	026	196	32937	26951	1.7	-0.9	-3.9	-51.7	
183/12:01:01	69 32.6-047	08.0	0468	097.5	029	192	32962	26855	1.9	-0.9	-4.3	-52.2	
183/12:02:01	69 30.2-046	49.0	0432	154.2	036	201	33007	26617	2.4	30.5	-5.1	-52.0	
183/12:03:01	69 23.4-046	51.9	0426	215.3	030	200	32942	26795	2.4	21.8	-5.0	-52.1	
183/12:04:01	69 20.2-047	09.3	0444	255.2	027	193	32945	26956	1.9	6.4	-4.2	-53.2	
183/12:04:29	69 19.5-047	19.3	0448	260.7	026	196	32953	27214	1.8	?.0	-3.7	-53.8	*** START OF RUN 4 TIME 12.04.30 LAT 6919.5 N LON C4719.5 W FL 329
183/12:05:01	69 19.2-047	30.6	0447	262.0	026	196	32953	27290	2.3	-0.5	-3.8	-51.6	
183/12:06:01	69 18.5-047	51.0	0445	261.5	027	195	32962	27815	2.0	-1.1	-2.4	-52.9	
183/12:07:01	69 17.8-048	11.7	0444	261.0	027	197	32952	28150	1.9	-0.9	-2.1	-53.4	
183/12:07:19	69 17.5-048	17.8	0443	260.7	028	193	32955	28275	2.2	-0.4	-1.7	-52.9	MELT PONDS AS WE GET NEAR THE ICE EDGE.
183/12:08:01	69 17.0-048	33.0	0443	261.1	027	202	32956	28703	2.0	-0.5	-1.4	-53.8	
183/12:09:01	69 16.3-048	53.3	0442	260.8	026	201	32943	29179	1.9	-0.5	-0.5	-52.2	
183/12:10:01	69 15.4-049	13.8	0443	260.3	028	193	32971	30197	1.9	-0.4	-0.2	-53.0	
183/12:11:01	69 14.5-049	34.5	0451	260.9	020	206	32547	31346	0.9	-0.4	0.0	-54.4	
183/12:12:01	69 13.6-049	55.4	0453	260.9	019	212	31667	30339	0.6	-0.5	4.8	-51.0	
183/12:13:01	69 12.7-050	16.6	0452	260.8	015	202	30048	30468	0.7	-0.9	4.1	-49.0	
183/12:13:03	69 12.5-050	17.1	0452	260.8	016	202	30017	30448	0.7	-0.7	3.2	-49.6	!!! END OF RUN 4 TIME 12.13.04 LAT 6912.5 N LON C5017.7 W FL 323
183/12:13:25	69 12.3-050	24.5	0452	260.6	013	192	30079	30139	0.6	-0.8	12.0	-49.8	OVER CUT CRUMPING AND FROZEN FJORDS.
183/12:13:31	69 12.1-050	27.4	0452	260.5	014	196	30401	30076	0.6	-0.6	1.4	-49.0	PASSED THE EDGE OF THE MAIN ICE CAP.
183/12:13:35	69 12.0-050	28.4	0452	260.4	014	190	30242	29589	0.6	-0.5	-0.1	-48.5	AND GLACIERS.
183/12:14:01	69 11.4-050	37.1	0450	241.4	018	179	29311	29460	0.0-28.9		8.2	-48.7	
183/12:14:15	69 10.5-050	41.3	0449	225.4	018	180	29480	29143	0.4-28.7		13.8	-46.7	FJORDS BELOW THERE IS OPEN WATER.
183/12:15:01	69 05.0-050	45.8	0451	173.0	C09	149	28415	28064	-1.0	-2.5	3.8	-45.8	
183/12:16:01	68 57.7-050	43.5	0457	172.9	014	142	26653	24617	-0.7	-0.7	4.8	-41.8	
183/12:17:01	68 50.4-050	41.5	0427	174.1	015	139	25052	24775	-1.1	1.5	8.1	-36.0	
183/12:18:01	68 43.5-050	47.3	0355	213.7	075	195	26141	25587	31.9-45.9		4.2	-38.2	
183/12:18:19	68 42.1-050	48.2	0326	165.2	026	112	27897	25876	-18.0-28.2		-39.7	-45.7	CIRRUS CLOUDS OVERHEAD DURING HOVEROVER.
183/12:10:55	68 39.0-050	41.5	0453	131.5	019	106	21378	21033	2.0	-2.3	1.3	-28.5	OPEN WATER.
183/12:19:01	68 38.6-050	40.0	0442	131.0	024	112	21461	21050	1.6	-0.8	14.6	-28.3	
183/12:20:01	68 32.6-050	32.9	0417	196.5	021	117	20775	19953	-1.2	28.2	0.9	-26.6	
183/12:21:01	68 26.7-050	43.5	0420	209.6	021	115	19992	18943	1.5-10.0		16.0	-26.3	
183/12:21:21	68 25.9-050	44.9	0420	204.8	022	113	19537	18991	1.5 -9.9		18.1	-25.4	OVER BARE LAND MOSTLY, SOME FROZEN LAKES.
183/12:22:01	68 20.3-050	48.2	0421	161.7	025	114	20052	18677	0.8-22.1		0.8	-27.2	
183/12:22:37	68 16.5-050	47.1	0422	142.4	026	106	19931	18711	0.4 -4.1		15.4	-25.0	HUGE GLACIER WITH MELT PONDS ON IT.
183/12:22:57	68 14.5-050	39.3	0423	140.1	028	103	19974	18753	0.9 -1.3		15.0	-24.9	TONGUE OF GLACIER BELOW US.

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEK

TIME	LAT	LONG	GRD SPD	TRUE HEAD	HDG SPD	HDG DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
183/12:23:01	68 14.3-050	38.7	0422	139.7	027	102	19964	19490	0.9	-1.4	13.6	-24.0	
183/12:23:11	68 13.4-050	36.6	0421	139.4	029	099	19964	19642	1.1	-0.8	12.4	-26.2	*** START OF RUN 5 TIME 12.23.10 LAT 6813.4 N LON 05036.6 W FL 199
183/12:23:29	68 11.7-050	33.2	0415	139.5	028	100	19971	19950	1.2	-0.1	14.5	-25.3	CAN SEE TONGUE OF GLACIER, RUN ON OUR NORTH SIDE.
183/12:23:55	68 09.4-050	28.2	0409	139.9	028	100	19959	19694	1.2	-0.3	13.9	-25.4	AT 20,000FT.
183/12:24:01	68 08.8-050	27.1	0407	139.9	026	099	19971	19472	1.3	-0.3	12.0	-24.0	
183/12:24:55	68 04 0-050	17.3	0396	141.0	026	113	19669	19107	-0.2	-0.7	13.4	-24.4	STARTED DESCENDING AGAIN.
183/12:25:01	68 03.5-050	16.3	0393	141.0	025	114	19540	10783	-0.4	-1.1	13.1	-25.7	
183/12:25:17	68 02.1-050	13.5	0302	140.9	024	111	19173	18228	-1.2	-0.1	3.2	-23.5	LOOKS LIKE TONGUE OF GLACIER IS TO THE PORT OF THE AIRCRAFT.
183/12:26:01	67 58.6-050	06.1	0377	141.4	024	114	17425	16062	-1.9	-0.4	0.6	-18.8	
183/12:27:01	67 53.4-049	56.1	0370	140.7	026	099	15043	13419	0.5	-0.5	0.7	-15.2	
183/12:27:35	67 50.6-049	50.5	0370	139.4	027	101	14971	12895	1.5	9.5	0.8	-14.5	!!! END OF RUN 5 TIME 12.27.36 LAT 6750.5 N LON 04950.2 W FL 149
183/12:28:01	67 48.3-049	47.6	0373	171.3	023	113	14939	12805	1.3	19.8	-0.6	-14.3	
183/12:29:01	67 42.4-049	51.8	0380	201.8	022	125	14933	13441	1.4	1.6	0.9	-13.4	
183/12:29:29	67 39.6-049	55.2	0380	202.9	022	121	14930	12738	1.4	-0.3	-1.0	-11.8	CAMERAS OFF.
183/12:29:59	67 38.7-049	56.6	0377	203.0	023	123	14971	12886	1.4	-0.1	-1.7	-13.1	OVER CLOUDS AGAIN.
183/12:30:01	67 36.7-049	59.2	0371	202.8	024	123	14965	12902	1.7	-0.5	-1.0	-13.6	
183/12:31:01	67 31.4-050	05.0	0357	203.1	018	118	13359	13031	-4.0	-0.9	-1.3	-11.4	
183/12:32:01	67 26.0-050	12.0	0364	203.8	012	121	10376	8572	-0.7	-0.1	-0.6	-6.0	
183/12:33:01	67 20.7-050	19.1	0302	204.1	007	105	9789	8545	2.1	-0.8	-0.5	-6.1	
183/12:34:01	67 16.6-050	24.4	0201	205.4	002	109	6063	6935	-0.2	0.0	-0.2	-7.3	
183/12:35:01	67 12.4-050	29.6	0273	205.9	003	101	6040	5661	-0.2	-0.7	0.9	-1.9	
183/12:36:01	67 08.4-050	35.4	0269	215.1	005	342	4150	2864	0.0	-0.2	10.8	-3.0	
183/12:37:01	67 05.2-050	41.8	0235	220.2	005	320	3222	2230	4.1	6.8	11.3	2.3	
183/12:38:01	67 02.7-050	49.0	0202	229.6	000	117	2902	1852	2.8	-4.0	11.6	2.5	
183/12:39:01	67 00.1-050	53.6	0179	159.0	007	072	2054	1620	-0.4	-27.5	11.8	5.2	
183/12:40:01	66 59.9-050	47.5	0168	061.4	005	252	669	697	0.7	-4.9	12.0	8.0	

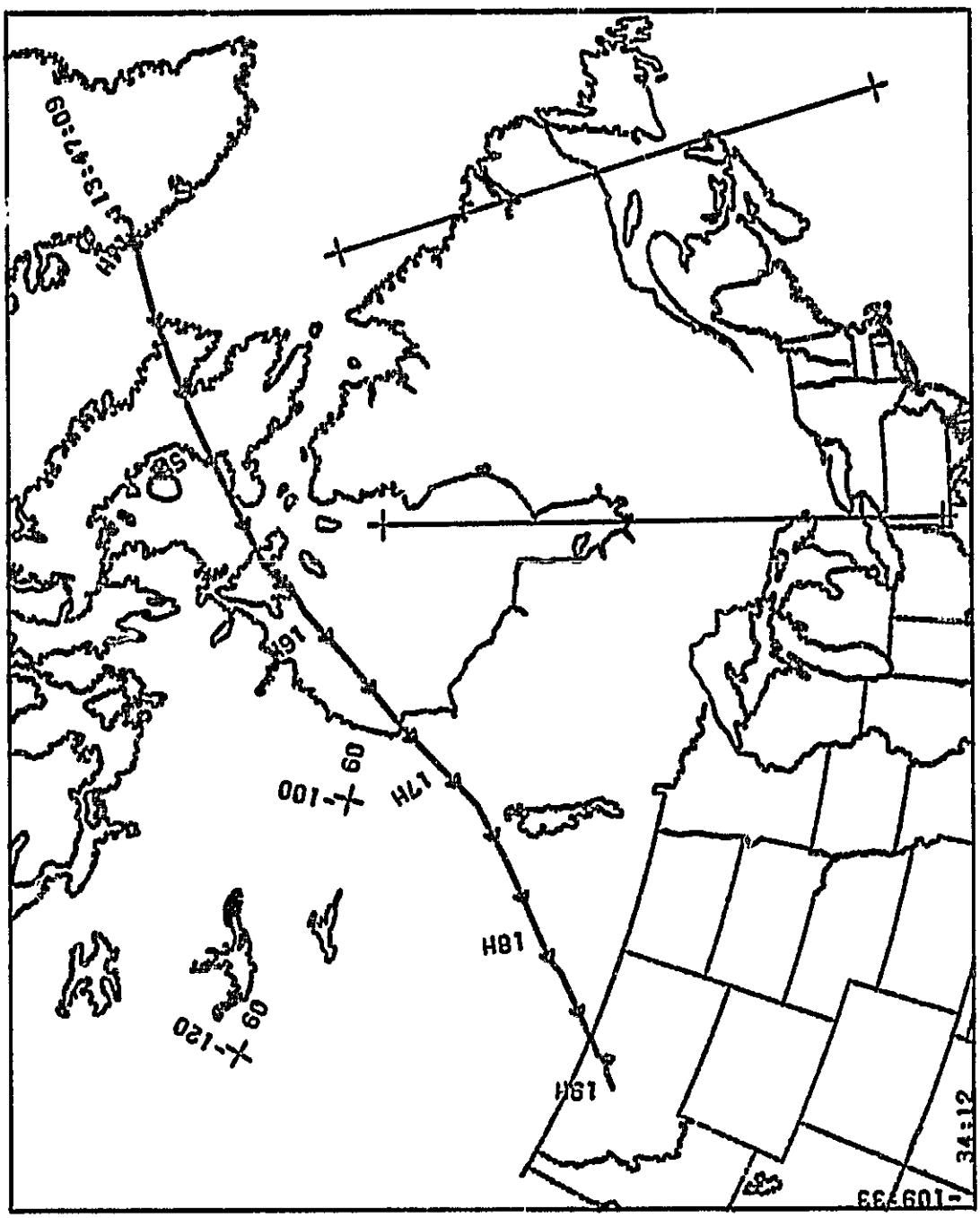

Figure 27. Flight tracks: Sondre/Malstr 7/1

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
183/13:46:51	00 00.0 000	00.0 0000	000.0	000	000	156	24380	-0.2	-0.1	36.5	14.0	
183/13:47:01	67 00.5-050	42.4 0000	061.7	118	061	156	24341	-0.3	0.0	35.6	13.5	
183/13:48:01	67 00.5-050	42.4 0006	015.1	114	018	159	56	-1.5	-0.6	30.7	11.5	
183/13:49:01	67 00.5-050	42.4 0011	061.7	108	061	152	56	-0.5	-0.9	26.3	12.5	
183/13:50:01	67 00.6-050	42.0 0015	038.7	102	039	149	56	-0.9	-1.5	22.7	7.1	
183/13:51:01	67 00.7-050	41.6 0015	037.5	103	037	155	56	-0.4	-1.4	21.5	10.1	
183/13:52:01	67 00.8-050	41.7 0086	241.6	035	241	155	56	-0.4	-1.4	21.5	10.1	
183/13:52:49	66 59.8-050	45.9 0175	234.1	003	305	155	56	-0.4	-1.4	21.5	10.1	TAKE OFF TIME 13 52 21
183/13:52:53	66 59.6-050	46.3 0178	233.3	002	331	155	56	-0.4	-1.4	21.5	10.1	JULIAN DAY 183
183/13:52:57	66 59.6-050	46.8 0182	232.6	002	350	155	56	-0.4	-1.4	21.5	10.1	JULY 1, 1984
183/13:52:59	66 59.4-050	47.1 0182	232.4	002	350	155	56	-0.4	-1.4	21.5	10.1	FLIGHT 13B
183/13:53:01	66 59.4-050	47.1 0183	232.1	003	350	155	56	-0.4	-1.4	21.5	10.1	
183/13:53:07	66 59.2-050	47.6 0185	232.0	002	313	155	56	-0.4	-1.4	21.5	10.1	SOMORESTROM/HALMSTROM.
183/13:53:17	66 58.8 050	48.9 0190	231.8	001	016	155	56	-0.4	-1.4	21.5	10.1	PHOENIX KENT COUN GV TAXI.
183/13:53:39	66 58.1-050	51.2 0209	231.5	009	057	155	56	-0.4	-1.4	21.5	10.1	H/P 6 67-01 51-43 SOMORESTROM
183/13:53:53	66 57.7-050	53.1 0225	231.9	005	053	155	56	-0.4	-1.4	21.5	10.1	H/P 1 66-56.2 53-42.3
183/13:54:01	66 57.4-050	53.8 0230	232.6	006	026	155	56	-0.4	-1.4	21.5	10.1	H/P 2 67-00 60-00
183/13:54:13	66 56.8-050	55.5 0242	232.2	008	037	155	56	-0.4	-1.4	21.5	10.1	H/P 3 66-30 70-00
183/13:54:23	66 56.5-050	56.7 0250	231.9	009	029	155	56	-0.4	-1.4	21.5	10.1	H/P 4 64-11.7 83-21.3 YZS
183/13:54:29	66 56.1-050	57.8 0256	231.8	009	029	155	56	-0.4	-1.4	21.5	10.1	H/P 5 61-00
183/13:54:37	66 55.9-050	58.7 0261	232.2	011	021	155	56	-0.4	-1.4	21.5	10.1	H/P 5 61-00 90-00
183/13:56:04	00 00.0 000	00.0 0000	000.0	000	000	7156	7013	6.8	-5.0	12.8	-4.9	
183/13:56:14	66 51.3-051	14.9 0314	231.5	006	222	7556	7406	6.7	-1.6	12.6	-4.4	,X
183/13:56:16	66 51.0-051	15.1 0314	231.6	008	226	7634	7482	6.8	-0.6	12.7	-3.7	,X
183/13:56:20	66 50.7-051	15.9 0315	231.3	007	212	7793	7645	6.7	-0.3	12.6	-5.0	,Z
183/13:56:22	66 50.7-051	16.2 0316	231.2	008	216	7871	7731	6.8	-0.1	12.8	-4.6	X
183/13:57:44	00 00.0 000	00.0 0000	000.0	000	000	11214	11005	6.4	0.5	-39.8	-9.5	
183/13:57:52	66 45.5-051	32.5 0340	230.3	006	124	11514	11292	6.5	1.1	-9.1	-9.1	,X
183/13:57:54	66 45.5-051	32.8 0340	230.3	007	121	11589	11371	6.5	0.9	-11.1	-9.0	,X
183/13:57:56	66 45.5-051	33.0 0340	230.5	007	121	11664	11448	6.5	0.9	-11.0	-7.3	,S.
183/13:58:00	66 45.2-051	33.6 0341	230.6	006	132	11813	11598	6.6	0.4	-11.4	-9.3	
183/13:58:02	66 45.1-051	34.1 0342	230.6	006	136	11889	11676	6.5	0.5	-11.4	-11.3	,X
183/13:58:04	66 44.9-051	34.5 0342	230.9	006	136	11966	11757	6.5	0.4	-11.1	-9.0	,X
183/13:58:08	66 44.6-051	35.5 0343	231.1	006	115	12113	11894	6.4	0.3	-10.8	-9.8	X,
183/13:58:10	66 44.5-051	35.9 0343	231.0	007	114	12186	11979	6.4	0.2	-10.9	-9.1	X,
183/13:58:56	66 41.8-051	44.5 0360	231.6	010	089	13563	13333	4.5	0.6	-11.3	-12.6	H/P 5 61-00 90-00
183/13:59:00	66 41.7-051	45.6 0363	231.6	011	095	13650	13412	4.6	0.5	-11.3	-13.2	
183/13:59:06	66 41.3-051	46.8 0366	231.8	011	100	13790	13556	4.5	0.1	-11.4	-12.9	H/P 6 58-44.5 94-03.6 YYQ
183/13:59:20	66 40.2-051	49.7 0372	231.8	010	117	14145	13902	4.6	-0.5	-11.3	-14.5	H/P 7 55-49.7 97-49..5 YTH
183/13:59:34	66 39.6-051	52.5 0376	241.6	009	112	14571	14315	5.6	28.1	-11.4	-15.7	H/P 8 53-58.4 101-05.9 YQD
183/13:59:56	66 39.1-051	58.4 0383	272.0	011	115	15263	15026	5.0	10.2	-11.2	-17.2	H/P 1' 50-17.8 107-41.4 YYN
183/14:00:00	66 39.1-051	59.5 0384	273.8	013	118	15374	14043	4.7	5.2	-10.9	-17.9	
183/14:00:14	66 39.4-052	03.2 0390	276.8	012	124	15743	15554	4.6	5.0	-10.8	-18.6	H/P 2' 49-04.9 109-35.2 GTF 020/122
183/14:00:28	66 39.6-052	06.8 0393	279.1	013	109	16139	15943	4.7	1.0	-10.9	-19.1	H/P 3' 47-27 111-24.7 GTF
183/14:00:40	66 39.7-052	10.1 0397	279.6	014	109	16455	14638	4.5	-0.7	-10.3	-19.2	H/P 9 47-30.3 111-11.0 KGFA.
183/14:01:00	66 40.1-052	15.6 0402	279.6	015	101	17032	15179	4.8	-0.4	-9.9	-22.2	
183/14:02:00	66 41.1-052	32.8 0409	279.2	012	105	18931	18162	4.8	0.0	-8.7	-24.3	
183/14:03:00	66 42.3-052	49.6 0419	279.0	011	110	20017	18692	4.2	-0.2	-9.1	-27.6	
183/14:04:00	66 43.5-053	07.1 0427	278.6	010	110	22152	20665	4.4	0.0	-9.9	-33.7	
183/14:05:00	66 44.5-053	25.3 0436	279.2	014	096	23589	23156	4.0	-0.1	-15.3	-35.5	
183/14:06:00	66 45.7-053	43.6 0449	278.9	018	094	24707	24271	3.6	-0.1	-16.1	-36.8	
183/14:07:00	66 46.8-054	02.2 0458	278.4	020	089	25845	25394	3.7	-0.6	-16.4	-40.3	
183/14:08:00	66 47.8-054	22.1 0467	278.2	021	090	26891	26406	3.3	-0.7	-15.6	-42.5	
183/14:09:00	66 48.9-054	41.6 0475	277.9	022	090	27893	27425	3.1	-0.1	-17.7	-43.5	
183/14:10:00	66 49.9-055	01.3 0480	278.0	026	083	28944	28471	3.6	-0.8	-15.6	-46.6	
183/14:11:00	66 50.9-055	21.8 0483	277.7	028	084	29857	29368	3.0	-0.4	-17.7	-47.6	
183/14:12:00	66 51.9-055	42.1 0490	277.1	025	085	30578	30086	3.1	-0.2	-22.6	-48.4	
183/14:13:00	66 52.7-056	02.7 0491	276.5	022	091	30991	30458	2.2	-0.1	-19.0	-49.3	
183/14:14:00	66 53.6-056	23.7 0488	276.0	023	094	30986	30457	2.3	-0.3	-17.3	-50.9	
183/14:15:00	66 54.4-056	44.1 0486	275.6	026	096	30996	30449	2.3	-0.6	-20.0	-50.8	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR	
183/14:16:00	66	55.2-057	04.1	0487	275.4	026	094	30976	30421	2.4	-0.3	-18.7	-50.3	
183/14:17:00	66	56.0-057	25.1	0488	274.9	027	098	30996	30430	2.1	-0.3	-19.0	-50.1	
183/14:18:00	66	56.6-057	45.6	0489	274.6	026	098	30994	30423	2.3	-0.4	-22.8	-50.1	
183/14:19:00	66	57.3-058	06.0	0490	274.1	025	100	30981	30416	2.4	-0.5	-20.7	-50.3	
183/14:20:00	66	57.9-058	27.3	0490	273.8	026	097	31003	30442	2.2	-0.3	-11.8	-50.3	
183/14:21:00	66	58.4-058	47.8	0490	273.9	024	092	30986	30430	2.1	-0.4	-10.0	-51.2	
183/14:22:00	66	59.1-059	08.3	0491	273.9	026	088	30983	30415	2.2	-0.2	-12.4	-50.6	
183/14:23:00	66	59.4-059	29.5	0492	273.3	028	090	30989	30426	2.1	-0.5	-10.2	-49.9	
183/14:24:00	66	59.9-059	50.4	0493	273.0	028	088	31010	30424	2.1	-0.3	-10.7	-51.7	
183/14:25:00	66	59.9-060	11.0	0495	267.2	029	088	30960	30393	2.2	-0.9	-9.4	-51.4	
183/14:26:00	66	59.4-060	32.6	0496	266.1	028	095	30996	30416	2.0	-0.4	-10.0	-50.9	
183/14:27:00	66	58.9-060	53.3	0497	266.2	028	093	30984	30403	2.0	-0.3	-9.9	-51.9	
183/14:28:00	66	58.4-061	14.3	0496	265.6	029	095	30992	30412	2.0	-0.4	-7.8	-50.4	
183/14:29:00	66	57.9-061	35.5	0494	265.2	027	096	30979	30410	2.1	-0.3	-7.3	-52.8	
183/14:29:38	66	57.4-061	48.8	0493	265.2	027	096	30991	30501	1.9	-0.2	-8.9	-50.8	SEA ICE ON STARBOARD SIDE.
183/14:30:00	66	57.2-061	56.3	0493	265.2	027	094	30985	30415	1.9	-0.4	-9.3	-51.8	
183/14:31:00	66	56.6-062	17.0	0492	264.7	028	094	30981	30418	2.3	-0.4	-10.4	-52.0	
183/14:31:12	66	56.4-062	21.4	0492	264.6	028	094	30991	30562	2.0	-0.4	-9.2	-52.2	GUIDANCE - THE IB MACHINE IS DOWN TO ANGILE.
183/14:32:00	66	55.9-062	38.1	0492	264.3	026	098	30994	28350	2.1	-0.2	-9.5	-52.9	
183/14:33:00	66	55.1-062	58.8	0491	263.8	027	097	30990	28983	2.2	-0.5	-8.1	-52.4	
183/14:33:10	66	55.0-063	02.0	0491	264.0	029	095	30985	28645	2.2	-0.4	-6.8	-52.3	CAMERAS ON 14 33 00.
183/14:34:00	66	54.4-063	19.3	0491	263.9	026	093	30983	30422	2.1	-0.5	-8.0	-52.3	
183/14:35:00	66	53.6-063	40.2	0491	263.7	025	092	30974	28214	2.2	-0.4	-0.3	-51.9	
183/14:36:00	66	52.6-064	00.8	0490	263.3	025	090	30971	27615	2.1	-0.1	10.0	-52.7	
183/14:36:32	66	52.1-064	12.0	0490	263.3	027	088	30938	27326	2.2	-0.2	2.3	-50.0	PASSING OVER MOUNTAINS WITH LIGHT CLOUD COVER.
183/14:37:00	66	51.7-064	21.2	0489	263.6	024	082	30993	25135	1.9	-0.3	-1.6	-51.0	
183/14:38:00	66	50.7-064	42.0	0488	263.3	023	081	30975	29778	2.1	-0.3	15.4	-51.9	
183/14:39:00	66	49.8-065	02.2	0488	263.7	023	062	30997	25650	2.1	-0.5	-0.3	-51.3	
183/14:40:00	66	48.8-065	22.5	0486	263.8	019	044	30993	25507	2.2	-0.2	-0.8	-50.5	
183/14:41:00	66	47.7-065	43.1	0485	263.5	025	051	30973	25683	2.0	-0.8	-0.3	-52.2	
183/14:42:00	66	46.5-066	03.3	0484	264.0	025	038	30972	27104	2.3	-0.3	3.?	-51.8	
183/14:43:00	66	45.4-066	23.1	0484	263.9	026	036	30971	28289	2.2	-0.7	15.2	-51.3	
183/14:44:00	66	44.2-066	43.6	0482	264.1	028	029	30976	29250	2.1	-0.6	13.6	-49.0	
183/14:45:00	66	42.9-067	03.2	0480	264.5	033	024	30990	28875	2.3	-0.8	13.6	-50.2	
183/14:46:00	66	41.6-067	22.7	0479	263.5	031	028	30982	29496	2.3	-0.2	14.7	-50.7	
183/14:47:00	66	40.2-067	43.4	0478	263.2	028	024	30979	30035	2.1	-0.3	15.9	-49.2	
183/14:48:00	66	38.9-068	02.9	0478	262.7	030	030	30991	29760	2.1	-0.3	12.3	-49.5	
183/14:49:00	66	37.6-068	22.3	0477	262.6	026	022	30980	29909	2.2	-0.5	13.1	-50.4	
183/14:50:00	66	36.1-068	42.2	0476	262.1	025	016	30976	29885	2.1	-0.5	14.1	-50.7	
183/14:51:00	66	34.7-069	01.6	0475	261.5	022	023	30987	30026	2.1	-0.6	19.2	-50.2	
183/14:52:00	66	33.2-069	21.0	0474	261.0	019	014	30936	30425	2.0	-0.8	16.3	-50.9	
183/14:53:00	66	31.5-069	40.5	0473	260.4	017	006	30990	30429	2.0	-0.5	5.2	-51.6	
183/14:54:00	66	29.9-069	59.5	0473	259.7	016	020	30975	30428	2.2	-2.7	0.4	-49.5	
183/14:54:40	66	28.7-070	12.4	0473	256.3	017	019	30981	30430	2.2	-1.9	0.2	-51.0	H/P 3 AT 14 54 00.
183/14:55:00	66	28.0-070	18.4	0473	255.2	016	023	30984	30432	2.0	-1.0	0.3	-49.4	
183/14:56:00	66	25.8-070	37.5	0471	255.4	021	006	31001	30457	2.1	-0.2	0.0	-48.4	
183/14:57:00	66	23.6-070	56.4	0472	256.3	026	006	30981	30452	2.1	-0.8	0.2	-49.8	
183/14:58:00	66	21.2-071	14.6	0474	255.5	025	009	30992	30431	2.0	-0.7	15.5	-49.5	
183/14:59:00	66	18.9-071	33.9	0475	254.6	020	357	30993	30383	2.0	-0.8	15.6	-50.0	
183/15:00:00	66	16.3-071	52.4	0475	254.1	018	354	31004	30297	1.8	-0.5	18.8	-49.5	
183/15:01:00	66	13.9-072	10.8	0473	253.8	015	338	30974	30305	1.8	-0.9	18.0	-48.4	
183/15:02:00	66	11.5-072	29.4	0472	253.3	015	338	30986	30379	2.0	-0.5	18.7	-50.4	
183/15:03:00	66	08.8-072	47.8	0469	252.8	015	311	30935	30389	1.8	-0.6	18.9	-51.0	
183/15:04:00	66	06.4-073	05.9	0466	252.3	012	307	30985	30471	1.9	-0.7	16.8	-51.2	
183/15:05:00	66	04.0-073	24.1	0464	251.7	012	314	30977	30502	1.8	-0.2	15.0	-50.4	
183/15:06:00	66	01.2-073	41.8	0458	252.5	021	324	32109	31653	3.7	0.1	16.9	-50.7	
183/15:07:00	65	58.8-073	58.9	0453	254.0	031	334	23101	32719	3.3	-0.7	16.5	-49.4	
183/15:08:00	65	56.1-074	16.9	0458	254.0	033	334	33609	33269	3.3	-0.5	0.1	-45.1	
183/15:09:00	65	53.6-074	34.2	0462	254.5	039	337	34065	33756	3.1	-0.5	0.1	-47.1	
183/15:10:00	65	50.7-074	51.8	0465	254.2	038	341	34468	34229	3.1	-1.0	-0.2	-45.8	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	-WIND- SPD	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	--TEMP--- IR	AIR	
183/15:11:00	65 48.0	-075 09.8	0468	254.8	047	337	34831	34573	3.2	-0.5	-0.6	-45.6	
183/15:12:00	65 45.2	-075 27.2	0470	254.5	048	338	34963	34729	2.7	-0.5	-1.0	-46.7	
183/15:13:00	65 42.4	-075 44.8	0467	254.7	052	339	34944	34737	2.7	-0.4	-0.8	-46.4	
183/15:14:00	65 39.5	-076 02.5	0465	254.7	051	338	34954	34778	2.8	-0.6	-0.8	-47.0	
183/15:15:00	65 36.6	-076 19.7	0464	254.7	056	335	34950	34819	2.7	-0.5	-0.8	-45.3	
183/15:16:00	65 33.6	-076 36.7	0462	254.8	057	335	34957	34831	2.9	-0.2	-0.6	-45.8	
183/15:16:18	6 32.7	-076 42.1	0461	255.0	057	335	34956	34823	2.7	-0.6	-0.7	-44.2	18 IS BACK UP - GODDARD.
183/15:16:30	65 32.2	-076 45.6	0461	255.1	059	334	34954	34834	2.9	-0.7	-2.3	-44.8	OVER SOLID SEA ICE, STARTING TO CLOUD OVER UNDERNEATH US.
183/15:17:00	65 30.8	-076 54.1	0461	254.5	058	333	34977	34900	2.6	-0.9	-3.1	-47.0	
183/15:18:00	65 27.8	-077 11.0	0462	254.9	064	331	34955	34849	2.7	-0.4	-1.5	-47.7	
183/15:19:00	65 24.7	-077 27.9	0462	254.9	068	327	34950	34830	2.6	-0.7	-3.1	-46.7	
183/15:20:00	65 21.8	-077 45.2	0460	255.1	072	330	34946	34885	2.8	-0.2	-2.7	-48.3	
183/15:21:00	65 18.8	-078 01.8	0458	255.8	076	331	34949	34914	2.7	-0.3	-2.9	-48.3	
183/15:22:00	65 15.7	-078 18.3	0456	255.9	080	329	34954	34932	2.5	-1.0	-3.2	-47.4	
183/15:23:00	65 12.5	-078 35.3	0454	257.5	096	329	34952	34947	2.6	-0.4	-2.9	-48.7	
183/15:24:00	65 09.4	-078 51.4	0454	258.0	101	332	34955	35000	2.5	-0.3	-3.0	-49.7	
183/15:25:00	65 06.3	-079 07.4	0454	258.0	101	332	34949	35013	2.5	-0.9	-0.8	-49.5	
183/15:26:00	65 03.3	-079 24.0	0455	257.5	101	331	34954	35057	2.5	-0.4	-0.4	-48.7	
183/15:27:00	65 00.0	-079 40.1	0455	257.1	101	330	34961	35090	2.4	-0.7	-1.0	-51.3	
183/15:28:00	64 56.7	-079 56.3	0456	257.0	101	331	34963	35127	2.4	-0.6	-0.5	-51.3	
183/15:29:00	64 53.6	-080 12.3	0458	256.6	099	329	34955	35144	2.3	-0.7	0.9	-49.7	
183/15:29:10	64 53.1	-080 14.8	0458	256.5	099	329	34947	35135	2.4	-0.8	0.9	-50.1	CROSSING A CLEAR PATCH IN THE ICE.
183/15:30:00	64 50.3	-080 28.4	0458	256.2	098	329	34969	35168	2.4	-0.7	1.0	-49.7	
183/15:30:20	64 49.1	-080 33.9	0457	256.2	099	329	34963	35184	2.4	-0.4	0.9	-50.7	BROKEN OUT OF THE SOLID CLOUD COVER.
183/15:30:32	64 48.3	-080 37.4	0457	256.3	100	330	34949	35182	2.3	-0.8	1.0	-51.1	OVER FIRST YEAR ICE SOLID CONCENTRATION SAY 95 PERCENT.
183/15:30:46	64 47.7	-080 40.8	0456	256.2	100	330	34968	35213	2.4	-0.5	1.1	-51.5	MELT PONDS ON THE ICE.
183/15:31:00	64 46.9	-080 44.5	0455	256.2	099	331	34959	35206	2.5	-0.7	0.9	-51.7	
183/15:31:58	64 43.6	-080 59.8	0452	255.4	097	327	34960	35253	2.4	-0.6	1.7	-50.6	OVER 100 PERCENT CLOUDS.
183/15:32:00	64 43.6	-081 00.7	0452	255.5	096	327	34961	35248	2.4	-0.7	1.7	-51.0	
183/15:33:00	64 40.2	-081 16.3	0450	255.2	097	327	34966	35273	2.3	-0.3	2.2	-49.9	
183/15:34:00	64 36.9	-081 31.6	0447	254.7	094	324	34948	35297	2.7	-0.7	2.0	-50.8	
183/15:35:00	64 33.6	-081 47.2	0446	254.1	089	326	34942	35318	2.6	-1.1	2.5	-50.5	
183/15:36:00	64 30.1	-082 02.3	0444	253.5	087	325	34949	34459	2.7	-0.8	3.6	-49.4	
183/15:37:00	64 26.7	-082 17.5	0443	253.2	084	326	34957	34497	2.8	-0.4	5.0	-50.6	
183/15:38:00	64 23.3	-082 33.0	0442	252.8	083	325	34936	34602	2.8	-0.6	5.3	-51.4	
183/15:39:00	64 19.8	-082 47.8	0441	251.9	079	322	34958	34854	2.7	-0.5	8.6	-49.9	
183/15:40:00	64 16.4	-083 02.3	0440	251.1	076	318	34966	35057	2.7	-0.7	4.3	-50.0	
183/15:41:00	64 13.1	-083 17.7	0442	247.6	070	317	34930	35224	2.9	-16.9	4.0	-50.4	
183/15:42:00	64 07.9	-083 30.1	0462	230.6	067	316	34944	35440	2.6	-1.9	3.9	-50.6	
183/15:43:00	64 02.2	-083 41.6	0462	230.2	067	318	34946	35369	2.7	-0.5	4.0	-49.6	
183/15:44:00	63 56.5	-083 53.6	0461	229.9	065	316	34962	35305	2.6	-0.5	4.6	-50.4	
183/15:45:00	63 50.6	-084 05.0	0461	229.2	061	317	34965	35439	2.6	-0.7	5.9	-49.6	
183/15:46:00	63 45.0	-084 16.3	0461	228.7	057	318	34944	35416	2.8	-0.8	4.8	-50.1	
183/15:47:00	63 39.3	-084 28.2	0461	228.2	055	314	34961	35491	2.7	-0.9	4.6	-49.4	
183/15:48:00	63 33.4	-084 39.3	0462	227.9	054	313	34962	35426	2.5	-0.7	5.6	-50.6	
183/15:49:00	63 27.7	-084 50.6	0463	227.4	052	312	34952	35311	2.6	-0.6	4.7	-50.5	
183/15:50:00	63 21.8	-085 02.0	0464	226.8	049	312	34960	35333	2.4	-0.4	4.6	-48.5	
183/15:51:00	63 15.9	-085 13.1	0464	226.4	047	304	34951	35405	2.4	-0.6	5.0	-50.4	
183/15:52:00	63 10.1	-085 23.9	0463	226.2	046	303	34954	35551	2.2	-0.7	4.7	-49.0	
183/15:53:00	63 04.2	-085 35.3	0461	225.9	046	299	34948	35678	2.5	-0.6	4.3	-51.3	
183/15:54:00	62 59.3	-085 47.5	0444	241.7	044	302	34934	35689	2.4	-0.9	2.2	-48.6	
183/15:55:00	62 55.3	-086 00.9	0442	242.2	043	296	34952	35725	2.4	0.0	3.6	-50.8	
183/15:56:00	62 51.4	-086 14.8	0440	243.0	042	292	34942	35722	2.6	0.1	-6.8	-50.3	
183/15:57:00	62 47.7	-086 28.4	0439	243.6	038	294	34958	35760	2.5	-1.1	2.8	-49.5	
183/15:58:00	62 43.5	-086 41.3	0445	231.1	034	296	34942	35795	2.7	-3.9	2.4	-49.3	
183/15:59:00	62 38.2	-086 52.9	0446	227.8	035	280	34966	35780	2.4	-0.6	2.9	-50.0	
183/16:00:00	62 32.6	-087 03.9	0445	227.2	035	281	34960	35771	2.5	-0.6	-2.4	-50.3	
183/16:01:00	62 27.4	-087 14.8	0444	226.5	032	276	34953	35790	2.5	-0.6	-3.3	-48.4	
183/16:02:00	62 22.0	-087 25.8	0443	225.8	029	272	34951	35725	2.7	-0.7	1.3	-50.4	
183/16:03:00	62 16.5	-087 36.4	0443	225.5	029	264	34950	35740	2.6	-0.6	-3.4	-51.5	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
183/16:04:00	62	11.3-087	47.2	0443	225.1	027	263	34960	35737	2.5	-0.6	-6.9	-48.2	
183/16:05:00	62	06.0-087	58.2	0443	224.8	027	261	34950	35736	2.7	-0.6	-12.7	-49.1	
183/16:06:00	62	00.4-088	08.6	0442	224.3	029	254	34960	35741	2.3	-0.6	-8.6	-50.4	
183/16:07:00	61	55.0-088	19.0	0442	223.9	027	250	34941	35739	2.5	-0.6	-13.2	-50.8	
183/16:08:00	61	49.6-088	29.6	0441	223.5	029	244	34956	35740	2.3	-0.2	-17.4	-50.0	
183/16:09:00	61	44.1-088	40.0	0440	223.2	028	238	34962	35739	2.4	-0.5	-24.4	-49.5	
183/16:10:00	61	38.8-088	50.2	0440	222.3	025	228	34943	35754	2.5	-0.6	-16.4	-51.8	
183/16:11:00	61	33.3-089	00.5	0440	222.0	023	226	34963	35759	2.4	-1.0	-31.7	-49.0	
183/16:12:00	61	27.8-089	10.8	0440	221.6	024	219	34947	35771	2.4	-0.7	-18.2	-49.9	
183/16:13:00	61	22.4-089	20.5	0440	221.1	026	217	34958	35744	2.2	-0.8	-23.8	-50.1	
183/16:14:00	61	16.9-089	30.9	0440	220.7	025	212	34956	35745	2.4	-0.7	-15.4	-50.0	
183/16:15:00	61	11.3-089	41.0	0440	220.8	032	215	34953	35728	2.4	-0.7	-36.1	-49.1	
183/16:16:00	61	05.7-089	50.6	0439	220.4	030	210	34954	35729	2.3	-0.2	-28.4	-49.6	
183/16:17:00	61	00.5-090	00.7	0439	220.2	034	208	34965	35732	2.2	1.1	-26.7	-50.8	
183/16:18:00	60	55.0-090	10.7	0438	222.8	033	209	34959	35726	2.3	-0.3	-13.3	-49.6	
183/16:19:00	60	49.7-090	21.0	0426	222.5	036	204	35787	36582	2.9	-0.5	-20.2	-52.5	
183/16:20:00	60	44.8-090	31.2	0428	222.3	038	205	36264	37050	3.2	-0.5	-45.2	-53.7	
183/16:21:00	60	39.4-090	41.1	0423	221.7	040	197	36924	37735	2.7	-0.5	-25.1	-55.6	
183/16:22:00	60	34.3-090	51.0	0428	221.1	040	190	36926	37725	2.5	-0.9	-28.6	-54.0	
183/16:23:00	60	29.4-091	01.2	0431	220.9	040	191	36900	37692	2.7	-0.2	-1.7	-54.3	
183/16:24:00	60	23.9-091	11.3	0431	220.4	045	191	36911	37693	2.4	-0.3	-11.0	-55.4	
183/16:25:00	60	18.9-091	21.1	0431	219.7	043	182	36909	37681	2.5	-0.7	-8.5	-53.6	
183/16:26:00	60	13.7-091	31.2	0432	219.1	048	181	36914	37667	2.5	-0.3	1.2	-53.8	
183/16:27:00	60	08.3-091	40.8	0431	218.9	050	183	36917	37658	2.6	-0.4	-6.4	-55.4	
183/16:28:00	60	03.0-091	50.6	0430	218.4	053	179	36918	37645	2.5	-0.1	-0.6	-55.9	
183/16:29:00	59	58.0-092	00.4	0429	218.2	059	184	36897	37610	2.5	-0.2	0.6	-54.4	
183/16:30:00	59	52.6-092	09.8	0427	217.6	061	180	36908	37611	2.2	-0.3	-5.0	-54.5	
183/16:31:00	59	47.5-092	19.2	0425	217.3	068	183	36914	37589	2.3	-0.8	-12.0	-54.8	
183/16:32:00	59	42.2-092	28.9	0423	216.9	070	183	36913	37580	2.5	-0.9	0.1	-54.7	
183/16:33:00	59	37.0-092	38.1	0419	216.6	071	181	36911	37579	2.2	-0.3	-0.8	-54.6	
183/16:34:00	59	31.9-092	47.2	0418	216.6	069	182	36897	37570	2.5	-0.3	-11.6	-55.4	
183/16:35:00	59	26.7-092	56.7	0418	215.7	075	177	36902	37557	2.4	-0.7	-7.8	-54.3	
183/16:36:00	59	21.6-093	05.5	0417	215.3	076	178	36899	37516	2.5	-0.8	-17.9	-54.0	
183/16:37:00	59	16.4-093	14.6	0414	215.6	075	180	36901	37512	2.5	-0.8	-1.3	-54.2	
183/16:38:00	59	11.3-093	23.6	0413	215.3	078	181	36911	37486	2.3	0.1	-8.4	-55.2	
183/16:39:00	59	06.1-093	32.3	0412	215.1	079	180	36903	37485	2.3	-0.6	-19.3	-54.0	
183/16:40:00	59	00.9-093	41.1	0412	215.0	079	178	36898	37464	2.4	-0.4	-23.1	-54.8	
183/16:41:00	58	55.9-093	49.9	0411	214.9	079	181	36897	37462	2.3	-0.1	-18.4	-54.9	
183/16:42:00	58	50.6-093	58.5	0409	213.6	078	181	36901	37449	2.5	-1.2	-22.7	-53.7	
183/16:43:00	58	45.4-094	06.9	0408	213.6	080	180	36893	37420	2.4	-2.8	-19.7	-52.9	
183/16:44:00	58	40.1-094	14.9	0404	211.4	081	186	36921	37377	2.2	-0.7	-2.8	-54.6	
183/16:45:00	58	34.7-094	22.3	0400	211.4	089	189	36910	37313	2.2	-0.5	-21.5	-54.8	
183/16:46:00	58	29.3-094	29.6	0395	210.8	085	188	36892	37254	2.5	-1.0	-4.5	-52.1	
183/16:47:00	58	24.0-094	37.0	0390	210.6	083	187	36884	37179	2.6	0.1	-16.0	-52.5	
183/16:48:00	58	18.6-094	44.1	0389	209.9	083	184	36894	37109	2.7	-0.4	-20.2	-51.1	
183/16:49:00	58	13.4-094	51.0	0388	209.7	083	183	36890	37029	2.8	-0.7	-8.4	-51.4	
183/16:50:00	58	08.1-094	58.2	0389	209.4	083	182	36886	36987	2.8	-0.7	-9.2	-49.7	
183/16:51:00	58	02.8-095	05.2	0390	209.7	081	183	36906	36800	2.4	-1.0	-21.5	-49.3	
183/16:52:00	57	57.4-095	12.1	0391	210.0	078	184	36903	36802	2.7	-0.5	-25.0	-47.9	
183/16:53:00	57	52.0-095	19.3	0394	210.1	079	186	36908	36695	2.5	-0.3	-21.2	-47.7	
183/16:54:00	57	46.6-095	26.3	0398	210.0	076	184	36905	36871	2.5	-0.5	-8.0	-47.8	
183/16:55:00	57	41.1-095	33.3	0400	209.5	077	183	36899	36828	2.3	-0.5	-7.2	-46.3	
183/16:56:00	57	35.7-095	40.4	0402	209.4	078	182	36904	36630	2.4	-0.7	-14.6	-46.9	
183/16:57:00	57	30.1-095	47.5	0403	209.6	076	183	36902	36617	2.5	-0.4	-34.0	-45.4	
183/16:58:00	57	24.7-095	54.4	0404	209.3	075	181	36902	36499	2.5	-0.4	-41.1	-44.8	
183/16:58:10	57	23.7-095	55.7	0404	209.1	073	180	36907	36467	2.6	-0.5	-44.1	-44.4	CAMERAS OFF AT 16 58 15.
183/16:58:46	57	20.2-095	59.9	0405	210.0	071	187	36918	36542	2.6	-0.4	13.3	-46.4	CAMERAS ARE STAYING ON - CLEARING UP AHEAD.
183/16:59:00	57	19.1-096	01.6	0406	210.5	071	190	36908	36501	2.5	-0.6	19.6	-46.3	
183/17:00:00	57	13.5-096	08.4	0408	211.4	073	195	36911	36560	2.4	-0.6	20.2	-45.9	
183/17:00:14	57	12.1-096	10.2	0408	211.4	070	195	36902	36586	2.6	-0.2	21.5	-46.6	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PTCH	ROLL	TEMP IR	TEMP AIR	
183/17:00:52	57	08.6-096	14.5	0408	211.4	068	195	36900	36619	2.4	-0.6	20.2	-46.7	
183/17:01:00	57	07.9-096	15.4	0408	211.4	070	195	36905	36677	2.5	-0.3	21.9	-47.2	
183/17:02:00	57	02.1-096	22.5	0410	211.3	066	195	36896	36395	2.4	-0.5	16.2	-47.3	
183/17:03:00	56	56.5-096	29.3	0410	211.1	068	194	36914	36404	2.4	-0.5	21.4	-46.0	
183/17:04:00	56	51.0-096	36.2	0411	211.0	066	194	36905	36454	2.2	0.8	21.6	-45.5	
183/17:05:00	56	45.1-096	43.4	0413	211.6	062	195	36901	36380	2.5	-0.3	20.4	-46.7	
183/17:06:00	56	39.3-096	50.4	0410	211.1	061	194	36900	36392	2.5	-0.8	22.0	-45.3	
183/17:07:00	56	33.6-096	57.1	0416	210.7	060	191	36905	36489	2.4	-0.3	22.3	-43.8	
183/17:08:00	56	28.0-097	04.1	0418	210.8	056	192	36913	36500	2.5	-0.9	20.9	-43.9	
183/17:09:00	56	21.9-097	11.0	0421	211.8	051	199	36911	36448	2.4	-0.5	21.2	-45.8	
183/17:10:00	56	16.1-097	17.8	0425	211.4	053	195	36912	36511	2.4	-0.8	20.2	-43.8	
183/17:11:00	56	10.3-097	25.0	0428	211.7	049	201	36906	36416	2.3	-0.3	16.9	-43.5	
183/17:12:00	56	04.0-097	31.9	0430	211.6	057	201	36908	36479	2.2	-0.7	22.2	-42.6	
183/17:13:00	55	58.2-097	38.7	0428	211.5	057	201	36910	36356	2.2	-0.6	21.6	-43.6	
183/17:14:00	55	52.3-097	45.6	0427	211.6	052	204	36903	36590	2.4	-0.5	19.9	-43.6	
183/17:15:00	55	46.1-097	52.4	0428	212.1	056	208	36910	36604	2.4	-0.6	21.4	-43.1	
183/17:16:00	55	40.2-097	59.2	0429	212.2	053	209	36902	36458	2.3	-0.6	21.1	-45.1	
183/17:17:00	55	34.3-098	06.4	0430	218.6	048	210	36893	36386	2.7	-14.0	20.6	-44.3	
183/17:18:00	55	28.5-098	13.7	0432	227.1	050	217	36906	36358	2.2	3.1	20.4	-43.7	
183/17:19:00	55	23.8-098	23.2	0434	227.5	044	214	36900	36423	2.4	-0.5	[illegible]	-43.0	
183/17:20:00	55	19.1-098	32.9	0436	227.5	051	216	36924	36241	2.1	-0.7	20.7	-43.2	
183/17:21:00	55	14.2-098	42.5	0437	227.5	051	218	36923	36277	2.1	-0.4	21.7	-41.1	
183/17:22:00	55	09.4-098	51.8	0436	227.8	054	223	36903	36250	2.2	-0.7	21.4	-43.2	
183/17:23:00	55	04.7-099	01.6	0436	227.9	051	222	36896	36178	2.1	-0.6	20.0	-44.2	
183/17:24:00	54	59.8-099	10.9	0436	227.4	050	221	36905	36143	2.2	-0.3	20.4	-43.2	
183/17:25:00	54	55.0-099	20.3	0433	227.4	057	221	36918	36238	2.0	-0.5	20.1	-42.6	
183/17:26:00	54	50.2-099	29.8	0431	227.3	056	223	36905	36228	2.0	-0.7	18.1	-42.9	
183/17:27:00	54	45.4-099	38.8	0429	226.9	054	219	36902	36288	2.4	-0.8	20.5	-43.9	
183/17:28:00	54	40.5-099	47.9	0429	226.9	057	220	36901	36164	2.3	-0.5	13.1	-44.1	
183/17:29:00	54	35.7-099	57.2	0429	227.0	055	222	36906	36105	2.0	-0.6	21.7	-44.2	
183/17:30:00	54	30.8-100	06.1	0430	227.0	053	225	36906	36077	2.2	-0.5	21.3	-44.4	
183/17:31:00	54	26.0-100	15.2	0431	227.1	051	224	36901	36079	2.2	-0.6	21.2	-46.4	
183/17:32:00	54	21.3-100	24.4	0432	227.4	049	229	36900	36065	2.3	-0.6	21.3	-46.8	
183/17:33:00	54	16.3-100	33.3	0434	227.2	041	226	36889	36115	2.3	-0.8	21.3	-46.4	
183/17:34:00	54	11.4-100	42.3	0436	227.2	041	227	36914	36236	2.1	-0.9	13.5	-44.7	
183/17:35:00	54	06.6-100	51.6	0440	227.6	036	233	36912	36151	2.2	-0.8	21.0	-44.0	
183/17:36:00	54	01.4-101	00.7	0441	227.1	041	230	36907	36216	2.1	-0.8	12.2	-46.7	
183/17:37:00	53	56.5-101	09.8	0443	231.7	036	238	36909	36222	2.2	0.1	21.2	-46.3	
183/17:38:00	53	51.9-101	19.7	0444	232.1	044	245	36914	36179	2.0	-0.9	17.8	-45.5	
183/17:39:00	53	47.0-101	29.2	0445	232.0	046	248	36903	36172	2.0	-0.9	23.8	-46.6	
183/17:40:00	53	42.4-101	38.6	0443	232.0	046	252	36907	36195	1.9	-0.6	20.6	-46.3	
183/17:41:00	53	37.7-101	48.3	0443	232.5	048	256	36892	36143	2.1	-0.9	21.4	-47.7	
183/17:42:00	53	32.8-101	57.8	0443	232.5	050	258	36897	36156	2.2	-0.9	19.5	-46.0	
183/17:43:00	53	28.0-102	07.0	0442	233.3	057	262	36917	35444	1.9	-0.5	19.3	-47.8	
183/17:44:00	53	23.3-102	16.6	0441	233.0	056	261	36896	34649	2.0	-0.7	17.7	-47.0	
183/17:45:00	53	18.5-102	25.9	0439	233.1	053	266	36904	34689	2.0	-0.4	19.1	-48.6	
183/17:46:00	53	13.8-102	35.0	0439	233.6	059	269	36894	35145	2.0	-0.8	19.4	-47.0	
183/17:47:00	53	09.1-102	44.4	0438	233.8	060	269	36895	35134	1.9	-1.0	17.3	-47.6	
183/17:48:00	53	04.2-102	53.4	0436	233.5	058	269	36898	35166	2.2	-0.8	18.3	-48.6	
183/17:49:00	52	59.5-103	02.3	0433	233.5	067	264	36918	35400	2.0	-1.0	18.3	-48.2	
183/17:50:00	52	54.7-103	11.5	0429	233.7	064	268	36887	35401	2.1	-0.6	18.0	-48.4	
183/17:51:00	52	50.0-103	20.3	0425	233.2	065	265	36915	35522	2.1	-0.7	20.2	-48.9	
183/17:52:00	52	45.4-103	28.9	0424	233.3	065	267	36912	35523	2.2	-0.3	14.0	-48.3	
183/17:53:00	52	40.8-103	37.9	0424	232.9	061	266	36894	35434	2.4	-0.6	-8.3	-46.6	
183/17:54:00	52	35.9-103	46.4	0424	233.7	067	270	36904	35342	2.2	-0.7	-32.3	-47.8	
183/17:55:00	52	31.4-103	55.0	0422	234.1	073	270	36922	35353	2.1	-0.8	-12.2	-47.8	
183/17:56:00	52	26.7-104	03.6	0421	233.4	076	263	36927	35321	1.8	-0.5	-25.6	-48.2	
183/17:57:00	52	21.9-104	12.1	0420	233.0	080	260	36919	35275	1.7	-0.4	-8.7	-49.8	
183/17:57:36	52	19.0-104	17.2	0418	233.1	079	261	36893	35264	2.0	-0.8	-2.5	-50.0	@ 183 17.57.36 ADDAS TAPES SWITCHED, EOT
183/17:58:00	52	17.3-104	20.4	0416	232.6	079	258	36900	35248	1.9	-0.9	-18.8	-51.6	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- HIZEX

----TIME----	--LAT--	--LONG--	GRD SPD	TRUE HEAD	+WIND-- SPD	DIR	-ALTITUDE- PRES	RADAR	PITCH	ROLL	--TEMP-- IR	AIR	
183/17:59:00	52	12.7-104	29.1	0413	232.6	080	258	36900	35240	1.8	-0.6	-32.8	-52.2	
183/18:00:00	52	08.0-104	37.1	0410	231.9	081	254	36895	35249	1.9	-0.8	-16.0	-51.5	
183/18:01:00	52	03.4-104	45.2	0408	231.7	076	255	36890	35358	2.0	-0.9	-16.6	-53.0	
183/18:02:00	51	58.9-104	53.2	0407	231.7	076	255	36890	35420	2.2	-0.6	-9.7	-51.8	
183/18:03:00	51	54.3-105	01.6	0407	231.6	075	256	36895	35435	2.1	-0.5	-15.8	-51.9	
183/18:04:00	51	49.7-105	09.4	0407	231.7	073	257	36912	35470	2.1	-0.6	-9.7	-51.2	
183/18:05:00	51	45.1-105	17.5	0408	232.0	076	259	36920	35541	2.2	-0.8	-8.3	-52.6	
183/18:06:00	51	40.2-105	25.5	0408	233.0	077	265	36916	35507	2.0	-0.9	-0.9	-51.0	
183/18:07:00	51	35.7-105	33.5	0410	234.6	075	266	36904	35502	2.1	-0.6	-39.2	-51.3	
183/18:08:00	51	31.1-105	41.4	0411	233.3	083	267	36918	35210	1.8	-0.7	-31.2	-54.4	
183/18:09:00	51	26.0-105	49.2	0419	226.8	089	267	36907	35199	1.8	-0.2	-10.1	-55.4	
183/18:10:00	51	20.6-105	56.0	0418	226.8	085	267	36906	35296	1.6	-0.6	-18.4	-53.8	
183/18:11:00	51	15.4-106	02.9	0424	219.4	088	266	36909	35287	1.6	-7.9	-33.9	-54.5	
183/18:12:00	51	08.9-106	08.7	0426	218.1	089	266	36889	35277	2.1	-0.5	-21.8	-54.4	
183/18:13:00	51	02.8-106	14.1	0426	217.8	087	267	36889	35494	2.2	-0.3	-25.7	-54.8	
183/18:14:00	50	56.7-106	19.3	0427	218.0	090	270	36896	35473	2.0	-0.7	-32.8	-54.5	
183/18:15:00	50	50.3-106	24.8	0428	217.8	087	268	36911	35450	1.7	-0.8	-8.6	-52.9	
183/18:16:00	50	45.4-106	32.1	0407	234.6	090	270	36888	35324	2.0	-1.8	-30.3	-55.5	
183/18:17:00	50	40.7-106	39.8	0408	235.4	097	269	36911	35360	1.6	-0.6	-27.9	-54.2	
183/18:18:00	50	35.9-106	47.3	0403	233.3	095	271	36907	35094	1.7	-0.7	-32.3	-55.1	
183/18:19:00	50	30.9-106	54.8	0408	233.7	105	271	36911	35249	1.6	-0.7	-27.1	-55.4	
183/18:19:40	50	27.9-106	59.9	0407	234.3	103	273	36896	35084	1.7	-0.4	-28.0	-56.3	AFTER H/P 8 TO 1' ME DIVERTED AND MENT DIRECTLY TO H/P 9.
183/18:19:58	50	26.4-107	02.0	0406	234.4	109	273	36898	35112	1.6	-0.8	-26.5	-57.3	ME BYPASSED H/P 2' AND 3'.
183/18:20:00	50	26.3-107	02.3	0406	234.5	110	273	36891	35118	1.7	-0.8	-28.5	-56.3	
183/18:21:00	50	21.3-107	09.8	0403	234.4	112	272	36904	35013	1.6	-0.5	-33.7	-55.9	
183/18:22:00	50	16.6-107	17.1	0400	233.8	106	272	36888	34997	2.0	-1.1	-29.7	-57.3	
183/18:23:00	50	12.0-107	24.3	0399	234.0	107	273	36912	34745	1.7	-0.6	-33.0	-57.0	
183/18:24:00	50	07.1-107	31.8	0399	233.7	106	271	36901	34673	1.8	-0.7	-22.7	-56.2	
183/18:25:00	50	02.3-107	38.9	0397	233.1	104	269	36899	34650	1.8	-1.6	-37.8	-55.2	
183/18:26:00	49	57.7-107	45.9	0397	233.4	102	272	36899	34713	1.9	-0.7	-42.1	-56.4	
183/18:27:00	49	52.9-107	53.2	0399	232.6	099	270	36903	34766	1.8	-0.7	-40.8	-56.5	
183/18:28:00	49	47.9-108	00.1	0399	232.4	101	268	36911	34827	1.9	-0.0	-33.1	-56.1	
183/18:29:00	49	43.2-108	07.4	0400	232.7	100	270	36917	34862	1.6	-0.5	-35.8	-56.2	
183/18:30:00	49	38.3-108	14.5	0401	232.4	098	270	36902	34893	1.7	-0.2	-40.8	-56.6	
183/18:31:00	49	33.5-108	21.4	0402	232.4	101	270	36904	34902	1.8	-0.5	-45.5	-56.8	
183/18:32:00	49	28.8-108	28.6	0401	232.4	098	271	36900	34419	2.0	-1.9	-48.0	-56.1	
183/18:33:00	49	23.8-108	35.7	0402	233.2	103	275	36899	34556	1.9	-0.3	-42.4	-55.4	
183/18:34:00	49	19.0-108	42.7	0401	233.7	108	274	36902	34686	2.1	-0.4	-21.2	-56.0	
183/18:34:12	49	17.9-108	44.2	0400	233.8	110	274	36906	34702	1.6	-1.2	-50.5	-55.3	CAMERAS OFF..
183/18:35:00	49	14.1-108	49.6	0400	233.8	110	276	36912	34783	1.7	-0.6	-43.9	-54.7	
183/18:36:00	49	09.1-108	56.7	0399	234.2	109	277	36911	34809	1.9	-0.5	-35.3	-52.9	
183/18:37:00	49	04.5-109	03.6	0398	234.1	110	278	36898	34935	2.1	-1.1	-41.0	-53.5	
183/18:38:00	48	59.5-109	10.4	0398	233.9	110	278	36912	34978	1.4	-0.7	-43.3	-53.3	
183/18:38:24	48	57.5-109	13.2	0403	233.4	109	277	36902	34702	0.2	-1.5	-26.4	-52.4	STARTED DESCEND.
183/18:38:32	48	56.8-109	14.1	0403	233.3	109	278	36916	34536	0.1	-0.4	-34.4	-52.8	BACK IN THE USA.
183/18:39:00	48	54.6-109	17.5	0396	233.8	110	278	35695	33912	1.9	-0.5	-7.3	-51.3	
183/18:40:00	48	49.7-109	24.3	0409	231.7	089	277	32880	31207	-1.6	-0.7	-4.9	-46.1	
183/18:41:00	48	44.8-109	31.3	0411	230.0	079	276	30570	29495	-1.5	-0.3	-4.8	-38.6	
183/18:42:00	48	39.6-109	38.4	0421	230.3	069	266	27850	25564	-2.9	-0.5	30.4	-31.5	
183/18:43:00	48	34.5-109	45.6	0423	227.6	065	264	24794	22871	-2.4	-0.5	25.4	-26.9	
183/18:44:00	48	29.2-109	52.5	0414	217.0	061	263	22352	20615	-3.4	-29.5	16.1	-20.0	
183/18:45:00	48	22.0-109	52.5	0444	176.9	052	265	19742	17397	-3.4	-0.4	23.0	-19.2	
183/18:46:00	48	15.6-109	50.5	0320	141.6	032	211	22667	18819	10.5	-20.3	-20.9	-16.8	
183/18:47:00	48	12.2-109	45.9	0358	209.7	054	268	18058	13791	-1.3	41.4	13.2	-10.1	
183/18:48:00	48	08.9-109	50.4	0318	250.4	048	268	16866	13435	0.8	0.2	21.1	-11.0	
183/18:49:00	48	07.1-109	57.8	0334	253.7	045	270	16203	13493	-1.0	-1.3	23.4	-9.3	
183/18:50:00	48	05.4-110	05.9	0355	253.9	046	270	15008	12631	-1.8	1.2	24.5	-9.3	
183/18:51:00	48	03.5-110	14.6	0370	252.2	040	261	13231	10501	-5.3	0.4	25.4	-1.2	
183/18:52:00	48	01.6-110	23.2	0326	251.7	049	272	12032	9393	2.1	-1.8	21.6	0.3	
183/18:53:00	47	59.8-110	29.8	0269	241.4	038	270	12130	9614	1.3	-8.8	22.1	0.2	

YEAR 1984 ADDAS FLIGHT LOG --- FLIGHT NO. 13 --- MIZEX

TIME	LAT	LONG	GRD SPD	TRUE HEAD	WIND SPD	WIND DIR	ALTITUDE PRES	ALTITUDE RADAR	PITCH	ROLL	TEMP IR	TEMP AIR
183/18:54:00	47 57.0	-110 35.2	0271	231.5	032	267	11887	9459	3.7	-4.2	21.1	0.5
183/18:55:00	47 53.6	-110 39.8	0285	225.2	031	275	11946	9270	2.2	0.8	20.0	1.6
183/18:56:00	47 49.9	-110 44.6	0296	227.3	031	276	11848	9342	1.0	0.7	14.2	2.1
183/18:57:00	47 46.5	-110 49.6	0265	228.9	036	271	10604	8016	-0.2	-1.6	14.7	5.2
183/18:58:00	47 43.6	-110 53.3	0233	228.4	034	288	8817	6035	-1.1	2.5	15.2	8.1
183/18:59:00	47 41.0	-110 57.0	0195	230.0	027	274	7662	4729	2.2	-3.3	15.8	10.9
183/19:00:00	47 38.6	-111 00.5	0190	227.1	029	243	6545	3887	1.7	-1.7	16.2	9.6
183/19:01:00	47 36.4	-111 03.5	0168	225.9	032	239	5507	2771	1.2	-1.3	16.5	13.5
183/19:02:00	47 34.5	-111 06.1	[illegible]	[illegible]	036	238	4718	1631	2.7	0.6	16.9	13.1
183/19:03:00	47 32.7	-111 08.6	0143	223.9	028	229	4038	762	2.0	-0.5	17.4	17.1
183/19:04:00	47 31.1	-111 10.8	0140	224.3	013	238	3324	24372	4.3	-0.6	10.0	20.1

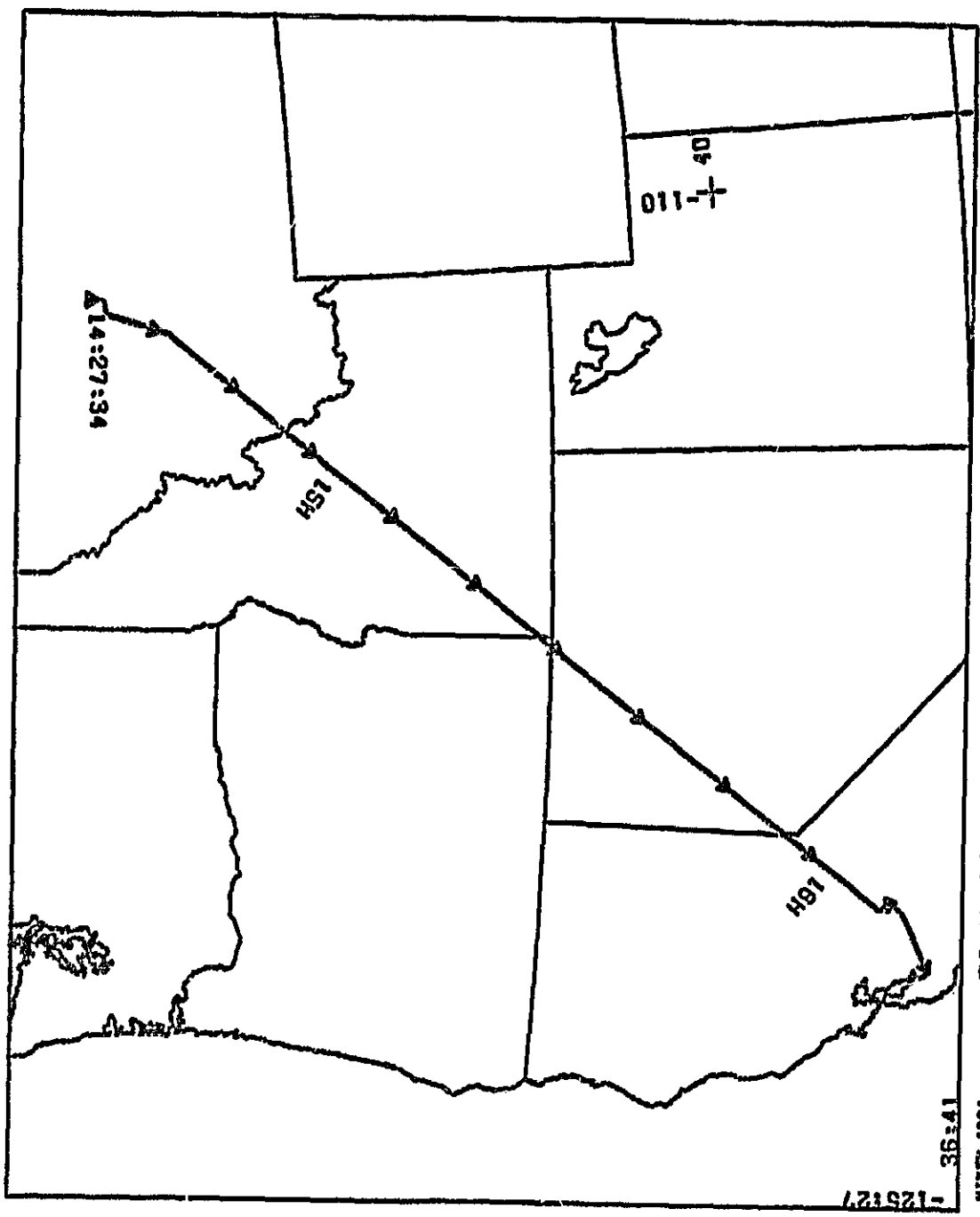

Figure 28. Flight tracks: Malstrom/Ames 7/2

4. Concluding Remarks

This mission is estimated to have been over 90% successful in terms of infrequent malfunctions of instruments, appropriate timing and locations of flights, and the total time spent over the MIZEX area. A preliminary review of the data has indicated that a number of important eddy events may be followed in a time sequence. While a number of unfortunate circumstances prevented obtaining seasonal extremes in the sea ice surface tempratures during our several flights, it is believed that sufficiently varied data were obtained to aid greatly in improving our knowledge of microwave radiometric properties near the melt point of sea ice. The MIZEX workshops held so far have indicated that these data acquired onboard the CV-990 Airborne Laboratory form, along with the data acquired at the surface, onboard the other research aircraft, and from the Nimbus-7 SMMR, the most comprehensive combination of such data ever obtained in a MIZ during a summer period. This is true both from the standpoint of ice dynamics and thermodynamics and from the point of view of microwave radiative transfer.

5. Acknowledgements

This effort was jointly supported by the Oceanic Process Branch of NASA Headquarters, the Office of Naval Research, and the European Space Agency. We also wish to commend the participants from the Ames Research Center for their excellent spirit of cooperation and skillful execution of this mission. A noteworthy example of this was the research and selection of a new base of operations for us in Norway, which proved not only more efficient than our earlier base at Bodo, but also more delightful and less expensive.

6. Reference

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15. Supplementary Notes

16. Abstract

During June/July 1984, the NASA CV-990 Airborne Laboratory was utilized in a mission to overfly the Fram Strait/East Greenland Sea marginal ice zone (MIZ) during the main summer marginal ice zone ezperiment (MIZEX '84). The eight data flights were coordinated where possible with overpasses of the Nimbus-7 satellite, and with measurement of sea ice, open ocean, and atmospheric properties at the surface. The surface research teams were based on seven research vessels, some with helicoptors: M/V Kvitbjorn, M/V Polarqueen, M/S Haakon Mosby, and M/S H.U. Sverdrup, all from Norway, F/S Polarstern from the Federal Republic of Germany, and the USNS Lynch from the USA. There were also coordinated flights with the NRL P3, NOAA P3, Canadian CV580, and the French B-17 during the overlap portions of their respective missions. Analysis of the real-time data acquired during the mission and uncalibrated data stored on tape has served to indicate the mission was over 90% successful.

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