A CATALOGUE OF RADIO SOURCES OBSERVED IN VLBI
I: 1985-1987

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1. INTRODUCTION

a. The need for a catalogue of VLBI observations was first raised in a EVN-Programme Committee Meeting a couple of years ago. It was soon clear to all the members of the PC that such a catalogue could have been a great source of information to settle the observing policy and to assist the members themselves in their reading of the submitted proposals. When in the VLBI Community it was rumoured that we were making a list of VLBI observations, the demand grew very quickly and we were "forced" to complete our committment.

b. The present edition of the catalogue of VLBI observations contains the list of all the observations carried out in VLBI with the EVN and global arrays of radiotelescopes in the years 1985, 1986, 1987.
Entries for the period before 1985 will be completed soon and consequently will include all the observations starting from the very beginning of VLBI activity. The catalogue will be updated each year.

The sources of information for this catalogue were the Observing Schedules distributed by the EVN-Chairman for each session, and the log-files kept at the Medicina Station. As a result, the catalogue does not include currently observations made with the U.S.Network only. We cannot

swear to the completeness of our compilation. We suggest that it is considered as a work in progress only. "Perfection" may be achived with the help of the Principal Investigators and their comments will be really appreciated.

c. We are constructing also an additional file containing all the publications related to the VLBI observations of each source. This will be inserted into the DATABASE structure and will be available in few months. An updated version of this manual containing details on the publication list and how to handle it will be distributed then.

Gathering all the pieces of information cointained in the present catalogue is a difficult job and it sometimes leads to incompleteness, despite our efforts. Any help from those users who can fill the gaps still present in it will therefore be very welcome.

* * *

HELP!

To create this additional file we would like to have the author collaboration. Please send us, possibly via E-mail, the following information:

I.A.U. Source Name, Other Name, References

The catalogue will be organized in such a way that "source name" is the key used to obtain the list of publication.

E-mail address: SPAN/HEPNET node: 38956::
BITNET node: ASTBO1.INFNET
user: TIZIANA
: FRANCO

2. DESCRIPTION

The catalogue (Tab. 1) is ordered according to the IAU name of the source, i.e. right ascension and declination. The information given for each source can be divided into three parts: the first concerns generalities on the source itself, the second lists the Principal Investigator and the experiment number and the third gives details of the observations themselves.
The catalogue consists of 15 columns, each of which contains a variable (equivalent to a "key" in the DATABASE language). There follows is a list of all the variables in the catalogue with a brief explanation of their meaning.

Column 1 - Variable name: NAME
It is the IAU name of the source.

Column 2 - Variable name: ON (Other Names)
It contains other names under which the source is known, such as the 3C, 4C, OQ, OJ names and so on. If the source doesn't belong to any of the mentioned catalogues and is associated with an optical object, then the name of this object is given.

Column 3 - Variable name: ID (optical identification)
It gives the morphological class of the optical associated object (if any).

Columns 4,5 - Variable names: RA, DEC

Right ascension and declination of the source (epoch 1950). These are the pointing position coordinates, as given by each investigator.

Column 6 - Variable name: PI (Principal Investigator)
Name of the Principal Investigator.

Column 7 - Variable name: AFFL (affiliation)
The institute to which the P.I. is affiliated. investigator.

Column 8 - Variable name: EVNPN
EVN project number.

Column 9 - Variable name: USPN
US project number.

Column 10 - Variable name: WL (wavelenght)
Wavelenght (in cm) at which the observation was carried out.

Column 11 - Variable name: GOAL
Purpose of the observation, defined by a list of codes.

Column 12 - Variable name: ACTEL (active telescopes)
A list of the antennas which took part in the observation. The antenna codes follow the official list (see US VLBI Handbook).

Column 13 - Variable name: MODE
Recording system mode (MKII or MKIII)

Column 14 - Variable name: H (hours)
The duration of the observation in hours and fractional hours.

Column 15 - Variable name: DATE
The date of the observations where
the first 2 digits refer to the
year and the last 3 give the day number.

It often happens that more observations of the same source belong to the same experiment. In such cases an * indicates those variables which do not vary from one observation to the other. Let's give an example (only some of the variables are reported):

NAME	PI	EVNPN	WL	GOAL	ACTEL	MODE	H	DATE
0645+609	Pedlar	84-56	18	sts	SBWJ	B	2	85103
0645+609	*	*	6	*	*	A	2	85137

Here the * indicates that PI, EVNPN, GOAL and ACTEL are the same, but the two observations were carried out at different frequencies, with a different recording system and in different days.

A documentary file (.DOC) accompanies the catalogue. In this file the user will find the list of the variables, their format (A for a character, I for an integer, and so on) and a very brief explanation of their meaning. In this .DOC file one can find also the codes for each telescope (according to the VLBI antenna designations), the codes describing the purpose of the observations. Also included

are the codes for the optical identifications.

In order to help the user a copy of the documentary file is given in Tab. 2.

3. COMPUTER ACCESS

The "Catalogue of Radio Sources Observed in VLBI", can be accessed via computer using both Packet Switching (X25)PTT and SPAN/HEPNET.

Node:

Packet Switching (X25)PTT: 02222511079

SPAN/HEPNET: 38956::

User:

ASTRONET

Password:

NO Password

At this point the VMS prompt "$", will appear. Typing

$DATABASE

will gain the user entry to DIRA (Distributed Information Retrieval from Astronomical files). This is a software structure, superimposed on the VAX/VMS system, that allows you simple and direct management of astronomical data bases, especially catalogues (D.I.R.A., ASTRONET, Data Base Group, Italy).

A short explanation of the command can be obtained by

means of the VMS-like help of DIRA by typing HELPDB. Answering with "?" to any questions from DIRA will invoke the on-line help facility.

Further information is contained in the DIRA manual and this will be sent on request. Please address your request directly to Mauro Nanni (38956::NANNI).

In our case, you will be able to access the VLBI catalogue using two commands to start with: DB_SELECT and DB_WINDCO.

Both commands will ask you the name of the Catalogue that you would like to access (see example). The name we have assigned to "A Catalogue of Radio Sources Observed in VLBI" is VLBINET.

DB_SELECT

COMMAND NAME : DB_SELECT

COMMAND TYPE : SELECTION

PURPOSE:

To select from a catalogue the objects which satify up to 10 constraints imposed on the variables and to produce an output file that can be picked up in the Personal Data Base. It is more efficient to use DB_WINDCO or DB_PLACO commands when constraints on the coordinates are involved in selection.

DESCRIPTION:

With this command you can extract a sub-set of a catalogue selecting only the records which satisfy the imposed constraints. A maximum of 5 constrains on numerical variables and 5 on character variables present in the catalogue can be imposed simultaneously and can be linked by a logical operator (OR-AND) at a time.

For instance it is possible to write:

Rel_1 AND Rel_2 AND Rel_3 AND Rel_4

but not:

(Rel_1 OR Rel_2 OR Rel_3) AND Rel_4

To do the latter search you can use DB_SELECT with homogenous type of constraints (Rel_1 OR Rel_2 OR Rel_3) to obtain a PDB sub-catalogue; on this you can continue the work with DB_SELECT routine to impose, logically, the last relation (Rel_4). There are six types of constraints that you can impose on a single variable:

Cons. Code	Description
0	Match of a substring in the field
1	Equal
2	Less than
3	Greater than
4	Inside the interval (boundaries included)
5	Outside the interval (boundaries excluded)
6	Not Equal

Note: more than one constraint can be imposed on the same variable.

EXAMPLE:

```
$ DB_SELECT
```

[In the first input block you must enter the logical name of the catalogue that you need to use and if it is public (MASTER) or private (PERSONAL) one.]

```
Input from Personal Data Base [Y/N] ?  >> N

Catalogue Name ?  >> VLBINET

N.Cat = 1 file DEV_DB_DATA:VLBINET.DAT opened
```

[After the file related with the catalogue has been opened the user can define the physical variables to be read using the mnemonic CODE of the variable. Other than CODES at this step you can use some special string to answer

/	Produce a complete list of the variables
/ALL	Use all the variables present on the catalogue (If you are working on a PDB catalogue)
%NAME	Reads from 'NAME' file the code (Codes of the catalogue parameters can be written as a free list by editor)]

```
Variables to be read ? >> RA DEC MAG
```

[Now define the constraints on the variables; for each constraint the program asks for the variables code, the constraint code and the value(s) (numerical or character). If you have need of more than one constraint, you have to define the relationship among them.]

```
-------------Constraints N.      1 ------------------
  --On Variable ? <CR> = exit       >> MAG
  --Constraint Code ?               >> 2
  --Comparison value                >> 15

-------------Constraints N.      2 ------------------
  --On Variable ? <CR> = exit       >> ACOD1
  --Constraint Code ?               >> 0
  --Comparison value                >> sA

-------------Constraints N.      3 ------------------
  --On Variable ? <CR> = exit       >> <CR>

Relationship (0 = .OR. 1 = .AND.)? >> 1

   ------------------------------------------------
     Var = MAG       Const = 2        Val = 15
```

```
Var = ACOD1     Const = 0        Val = sA
-------------------------------------------------

Are the constraints O.K. [Y/N]                >> Y
```

[The output of this task is written to a file that you can put directly into Personal Data Base (PDB) for a future application (see DIRA manual). If you want to update PDB inserting a new catalogue you will produce a new CATALOGUE NAME; When this NAME matches with a NAME already present the old catalogue is updated with new parameters and the new data file name have the same name of the old catalogue. It is possible to use the same name of the input catalogue (if you are working on a PDB catalogue) in this way you can perform sequential filtering operations on data set.]

```
Do you want to update Personal Data Base ? [Y/N]     >> Y
New Catalogue Name     ?                 >> VLBMINE

Output File Name       ?                 >> VLBOUT

      ====== n.  4567  Objects founded =====
      Cpu Time.............36.9400 seconds
```

[You can continue to make selections in the same catalogue to obtain more output files with different variables and constraints.]

Do you want to continue on same catalogue ? [Y/N] >> N

DB_WINDCO

COMMAND NAME : DB_WINDCO

COMMAND TYPE : SELECTION

PURPOSE:

To select from a catalogue the objects located inside a coordinates window defined in Right Ascension and Declination and that satisfy up to 10 constraints imposed on the variables. It produces an output file that can be picked up in the Personal Data Base.

DESCRIPTION:

With this command you can extract a sub set of a catalogue selecting only the records inside a sky region defined by Right Ascension and Declination.
All the options of the command DB_SELECT are available in this task.
When the original catalogue is sorted coordinate, the routine uses a dichotomic search strategy and the time for the retrieval of information is related only to the number of objects in the defined region and not to the number of

records in the catalogue or to the physical position of the region into the catalogue.

If you search objects in a region around 0 hours in Right Ascension (ie. from 23.30 to 0.30) you can specify the RA as either from 23.30 to 0.30 or from 23.30 to 24.30. When the first R.A. coordinate is greater than the second one the program uses a window containing the 0 hour RA.

EXAMPLE:

```
$ DB_WINDCO
```

[In the first input block you must enter the logical name of the catalogue that you need to use and if it is public (MASTER) or private (PERSONAL) one.]

```
Input from Personal Data Base [Y/N] ?  >> N

Catalogue Name ?  >> VLBINET

N.Cat = 1 file DEV_DB_DATA:VLBINET.DAT opened
```

[After the file related with the catalogue has been opened the user can define the physical variables to be

read using the mnemonic CODE of the variable.
The coordinates are always returned in the output file and you do not need to give here the coordinates CODE. Other than CODES at this step you can use some special string to answer.]

/ Produce a complete list of the variables

/ALL Use all the variables present on the catalogue (If you are working on a PDB catalogue)

%NAME Reads from 'NAME' file the code (Codes of the catalogue parameters can be written as a free list by editor)]

Variables to be read (besides RA and DEC) ? >> MAG,POSANG

[You must enter now the window in R.A. and Dec. coordinates in the format hours, minutes, seconds and degrees, arcmins, arcsecs. The questions layout can help you to put in a right format the values.]

```
Enter the limits in R.A.  [minimum   maximum]:
                           HHMMss.s HHMMss.s
                           1230     123525.5

Enter the limits in Dec.    [minimum   maximum]:
                           _DDMMss.s  _DDMMss.s
                           -051200.0   0315

Minimum R.A. = 12 30 00.0  Maximum  R.A. = 12 35 25.5
Minimum Dec. =-05 12 00.0  Maximum  Dec. = 03 15 00.0

-----------------------------------------------------

Coordinates O.K.  [Y/N] ?  >> Y

Do you want to impose constraints on the variables [Y/N] ? >>N

      [ You can put constraints on each variable present in
      the catalogue inside the defined window by answering
      Yes at this step. (See DB_SELECT for more
      information) ]

      [ The output of this task is written to a file that you
      can put directly into Personal Data Base (PDB) for
```

future applications. If you want to update PDB inserting a new catalogue you will produce a new CATALOGUE NAME; When this NAME matches with a NAME already present the old catalogue is updated with the new parameters and the new data file name have the same name of the old catalogue. It is possible to use the same name of the input catalogue (if you are working on a PDB catalogue). In this way you can perform sequential filtering operations on data set.]

```
Do you want to update the Personal Data Base ? [Y/N]    >> Y
New Catalogue Name     ?            >> VLBMINE

Output File Name       ?            >> VLB.DAT

      R.A. Range : 12 30  0.0  <--->  12 35 25.0
      Dec. Range :-05 12  0.0  <--->   3 15  0.0

      ====== n.  11  Objects founded  =====

      Cpu Time --------> 0.62  Seconds

Do you want to continue on the same catalogue ?  [Y/N]  >> N
```

draft:

CATALOGUE OF RADIO SOURCES OBSERVDE IN VLBI

catalogue name: VLBI-OBS
keywords: RADIO, SOURCES, VLBI, OBSERVATIONS

The catalogue contains the list of all the radio sources observed in VLBI from the beginning of 1985 to the end of 1987 and it will be progressively updated.

:RECORDS 633:

CODE	FORMAT	PHYSICAL VARIABLES
NAME	A	IAU radio source name
ON	A	Source names from other catalogues (3C,4C...)
ID	A	Optical identification
RA	I	Right ascension (Epoch 1950.0)
DEC	I	Declination (Epoch 1950.0)
PI	A	Project Investigator
AFFL	A	Affiliation of the project investigator
EVNPN	A	EVN project number
USPN	A	US project number
WL	A	Wavelength in cm at which the observation was made
ACTEL	A	Telescopes involved in the observation. Symbols are given according to the following VLBIN antenna designations: A - Arecibo, 300m B - Bonn, 100m at Effelsberg C - Canada, 46m at Algonquin Park Dx- Deep Space Net: Dm=DSS14 Mars Goldstone 64m, Dv=DSS13 Venus Goldstone 26m, Ds=DSS43 Madrid 64m, Dt=DSS43 Tidbinbilla 64m E - Hartebeesthoek, South Africa, 26m F - Fort Davis, GRAS, 26m G - Green Bank, 43m Hx- Hat Creek: Hc=26m; Hw,p,x=6m's I - Iowa, 18m Jx- Jodrell Bank: J1=76m Mark Ia; J2=25m MarkII Kx- Haystack: Kc=36m; Ki=46m; Kw=Westford 18m L - Italy: Lm=32m at Medicina; Ln=32m at Noto, Sicily M - Nobeyama, 45m N - NRL, 26m at Maryland Point Ox- Owens Valley: Oc=40m; Ox,y,z=10m P - Penticton, 26m Q - Quabbin, 16m R - Simeiz, Crimea, 22m Sx- Onsala: Sc=26m, Sm=20m T - Tucson, 12m U - Chilboton, 26m V - Metsahovi (Finland), 14m Wn- Westerbork, n=1-14 x 25m X - Brazil, 14m Yn- VLA, n=1-27 x 25m Z - Torun (Poland), 15m Mr- MERLIN
GOAL	A	Reason why the source has been observed
MODE	A	Recording system: 2=MarkII; A,B,C,D,E=MarkIII PL=polarisation; SL=spectral line
H	A	Duration of the observation in hours
DATE	A	Date of the observation

An * following the index name of the source indicates that the information on

the present record continues from the previous one.

CODES FOR OPTICAL IDENTIFICATIONS		CODES FOR THE GOAL OF THE OBSERVATIONS	
AN	active gal. nuclei	sm	source mapping
BS	binary system	gl	gravitational lenses
EF	empty field	hsm	hot spot morphology
G	galaxy	eo	epoch observation
Q	quasar	pm	proper motion
PR	pulsar	cc	compact component
S	star	slm	superluminal motion
SR	supernova remnant	fm	flux measurement
		cm	core mapping
		jd	jet dynamics
		ab	angular broadening
		pfs	peak flux sample
		spv	structure and polar variability
		ss	strong survey
		sc	structure changes
		mon	monitoring
		mo	maser observation
		pt	polarisation test
		sur	survey
		snr	supernova remnant
		no	nucleus observations
		sws	stellar wind structure
		mbo	multiband observations
		vp	variable polarisation
		cs	compact structure
		ps	polarised structure
		rn	radio nuclei
		po	polarisation observations
		css	compact steep spectrum sources
		mfs	magnetic field structure
		fs	flare star
		xb	x-ray binary system
		ast	astrometry
		mss	milliarcsecond structure
		aho	ad hoc observations
		se	stellar envelopes
		hdo	high dynamic range observations
		fo	flare observations
		sts	short track seyfert gal. obs.
		pr	phase reference

NAME	ON	ID	RA (1950)	DEC (1950)	P.I.	AFFL.	EVNPN	USPN	WL	GOAL	ACTEL	MODE	H	DATE
0016+731		Q	001654200	731051500	Witzel	MPIfR	84-46G	W39G	1.3	sm	BSKGOY	B	1	85275
0016+731		Q	001654100	731052000	Schalinsky	MPIfR	87-15G	S71G	6	slm	BWJSLZ	2	10	87152
0016+731		*	001654100	731052000	*	*	*	*	*	*	KNGFOHY	*	10	87152
0023+171					Hewitt	MIT	86-29	H26G	21	gl	BWJ-Y	A	3	86347
0055+300	NGC315	G	005505700	300455000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	2	85289
0104+321	3C31 4C32.05	G	010439200	320844000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	2	85289
0106+013	4C01.02	Q	010604523	011901060	Cohen	CIT	86-21G	C43G		v	LSBWJ	2	2	86164
0106+013	*	*	010604523	011901600	*	*	*	*		*	EKNGFOHYA	2	2	86164
0106+013	4C01.02	Q	010604523	011901060	Campbell	GeoIns	86-74		6		BLSWJ	E	1	87276
0108+388		EF	010847252	385032800	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2	2	86327
0127+233	3C43 4C23.06	Q	012715200	232252000	Fanti	IRA	85-65		18	css	LSBWJ	2	10	86272
0133+476		Q	013355110	473612500	Greybe	MPIfR	85-58G	G49G	2.8	vp	LB-KGO	C/PL	6	86147
0133+476		Q	013355110	473612790	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2	2	86327
0133+476		*	013355110	473612790	*	*	*	*	*	*	*	*	.5	87274
0138+136	3C49 4C13.10	G	013828510	133819950	Fanti	IRA	85-12		6	css	LSBWJ	2	4	85280
0138+136	*	*	013828510	133819950	*	*	*		*	*	*	*	5	85285
0138+136	*	*	013828510	133819950	*	*	*		*	*	*	*	7	85288
0153+744		Q	015304348	742805650	Witzel	MPIfR	84-53G	W38G	6	sur	LSBWJ-KNGYO	2	4	86162
0212+735		BL	021249940	733540150	Witzel	MPIfR	84-53G	W38	6	hdo	LSBWJKNGOY1	2	6	85141
0212+735		BL	021249900	733540100	Witzel	MPIfR	84-46G	W39G	1.3	sm	BSKGOY	B	1	85275
0219+421	SNR1986J	SN	021922600	420618900	Bartel	CfA	86-75G	B76G	2.8	sm	BL-KGFO	A	9	87054
0219+421	SNR1986J	SN	021922600	420619000	Strom	NFRA	86-73G	S72G	6	snr	BWSL-GO	B	5	87146
0219+580	S Per	S	021915090	582133500	Diamond	MPIfR	84-45G	D9G	1.3	mo	BSKNGOY	2	11	85275
0220+427	3C66B 4C42.07	G	022001700	424555000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	.5	85289
0222+369		G	022223900	365657000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	.5	85289
0223+616	W3(OH)	M	022316500	613856400	Baudry	Bdeaux	85-38		6	mo	LSBWJ	2/SL	14	85290
0223+616	W3(OH)	M	022316450	613857510	Bloemhof	CfA	85-22H	B64G	18	mo	BJ-KGFOHCY27	2/SL	14	86071
0223+616	W3(OH)	M	022316450	613857510	Baudry	Bdeaux	86-44		6	mo	LSBWJ-G	2/SL	3	86330
0224+671			022441170	670739700	Mantovani	IRA	aho	aho	2.8		L-KGFOH	2	3	85341
0224+671			022441170	670739700	*	*	*	*	*		*	*	4	85342
0229+131		Q	022902500	130940400	Lawrence	CIT	86-79G	L45G	1.3	ss	BL-KGOY1	2	2	87048
0229+341	3C68.1 4C34.08	Q	022927000	341102000	Fanti	IRA	S4		18	aho	SBWJ	2	1	85098
0229+341	*	*	022927000	341102000	*	*	*		*	*	*	*	1	85099
0234+285	4C28.07	Q	023455570	283512100	Corey	NEROC	85-54G	C41G	1.3	sc	BS-KNGOY1	2	10	86058
0235+164	AO0235	G	023552600	162404000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A	.5	85147
0235+164	AO0235	Q	023552600	162403800	Corey	NEROC	85-54G	C41G	1.3	sc	BS-KNGOY1	2	10	86058
0235+164	AO0235	Q	023552600	162403800	Greybe	MPIfR	85-58G	G49G	2.8	vp	BL-KGO	C/PL	12	86060
0235+164	*	*	023552600	162403800	*	*	*	*	*	*	*	*	6	86147
0235+164	AO0235	Q	023552700	162403300	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
0236+610	LSI+61303	SS	023640600	610053900	Taylor	NRAL	87-20		6	xb	BLSWJ	B	12	87269
0236+610	*	*	023640600	610053900	*	*	*		*	*	*	*	12	87275
0240-002	NGC1068	G	024007060	-001331440	Pedlar	NRAL	84-56		6	sts	LSBWJ	A	.2	85137
0240-002	NGC1068	G	024007100	-001331000	Pedlar	NRAL	87-46		6	no	BLWJ	A	6	87271
0258+350	4C34.09 NGC1167	G	025835400	350032000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	.5	85289

0300+470		BL	030010000	470433400	Greybe	MPIfR	85-58G	G49G	2.8	vp	LB-KGO	C/PL	11	86149
0300+470		BL	030010200	470433400	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
0300+470		BL	030010200	470433400	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
0300+470		*	030010000	470433400	*	*	*		*		*	*	1	87276
0304+407	Algol	BS	030454356	404552460	Felli	OAA	85-61G	F10G	6		LSBWJ-KG	B	1	86163
0306+102		BL	030620900	101752000	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
0309+411		EF	030944810	410848600	Lawrence	CIT	85-55G	L43G	1.3	sur	BS-KGOY1	2	22	86057
0316+413	3C84 4C41.07	G	031629600	411952000	Strom	NFRA	85-16		6	pt	LSBWJ	E	10	85139
0316+413	3C84 4C41.07	G	031629600	411951800	Backer	RAL	85-48G	B67G	1.3	cc	BSKNGOY	2	14	85273
0316+413	*	*	031629600	411951800	*	*	*	*	*	*	*	*	16	86056
0316+413	3C84 4C41.07	G	031629600	411951800	Spencer	NRAL	85-26		92	js	RTWJ-Ooty	2/PL	24	86084
0316+413	3C84 4C41.07	G	031629600	411951800	Backer	RAL	86-57	B73G	1.3	cc	BSL-KNGOY1	2	15	86318
0316+413	3C84 4C41.07	G	031629600	411951800	Strom	NFRA	85-16		6	pt	LSBWJ	C	10	86332
0316+413	3C84 4C41.07	G	031629600	411951900	Fey			AH2	18	sur	BL-KGOYIFH	2	1	87060
0316+413	3C84 4C41.07	G	031629569	411951940	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
0316+413	*	*	031629569	411951940	*	*	*	*	*	*	*	*	.5	87144
0316+413	3C84 4C41.07	G	031629600	411951800	Marr	RAL	87-05G	M87G	1.3	cs	BSL	2	12	87157
0316+413	*	*	031629600	411951800	*	*	*	*	*	*	KNGFOHY	*	18	87157
0316+413	*	*	031629600	411951800	*	*	*	*	*	*	BSL	*	6	87158
0316+413	3C84 4C41.07	G	031629600	411951800	Alef	MPIfR	86-56G	A14G	2.8	sc	BL(R)KGFHYO	2	18	87262
0316+413	3C84 4C41.07	G	031629600	411951800	Marr	RAL	87-05G	M87G	6	cs	BLSWJ	2	18	87270
0316+413	*	*	031629600	411951800	*	*	*	*	*	*	KNGIFOHY	*	18	87270
0320+053	4C05.14	G	032041500	052335000	Mantovani	IRA	S3		18	aho	SBWJ	2	1	85098
0320+053	4C05.14	G	032041500	052335000	Mantovani	IRA	85-72G	M73G	18	lfv	SLBWJ-KGFO	2	4	86070
0323+285	UX Ari	BS	032332953	283232350	Felli	OAA	85-61G	F10G	6		LSBWJ-KG	B	1	86163
0331+391	4C39.12	G	033100900	391124000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	.3	85289
0331+391	*	*	033101000	391125000	*	*	*		*	*	LSBWJ-K	*	1	86163
0334+004	HR 1099	BS	033413169	002533170	Felli	OAA	85-61G	F10G	6		LSBWJ-KG	B	1	86163
0336-019		Q	033658950	-015616900	Cohen	CIT	87-10G	C46G	6	pfs	BWJSLKNGIOHY	2	5	87147
0350+112	IK Tau	M	035046000	111541000	Lesqueren	Meudon	85-71		18	mo	SBWJ	2	8	86069
0355+508	NRAO150		035545250	504920200	Wan	Shangh	86-17		6	sm	RLSBWJ-Shangh	2	3	86325
0355+508	*		035545250	504920200	*	*	*		*	*	*	*	9	86331
0355+508	NRAO150		035545200	504920200	Foley	NFRA	87S2		18			2	2	87059
0355+548	NRAO150		035545261	504920200	Lawrence	CIT	86-79G	L45G	1.3	ss	BSLKGOY	2	.5	87155
0415+283	V410 Tau	S	041524829	282001300	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
0415+379	3C111		041500600	375419000	Linfield	JPL	84-62G	L36	18	jo	SBJKNGIFOHY27	2	16	85097
0415+379	*		041500600	375419000	*	*	*	*	*	*	SBJ	*	4	85111
0415+379	3C111		041500610	375419000	Alef	MPIfR	84-55G	A9	6	sc	LSBWJKGFY10	2	18	85143
0415+379	3C111		041500610	375419000	Alef	MPIfR	86-47G	A11G	6	sc	LSB-KGFOY	2	11	86325
0415+379	3C111		041500640	375419600	Alef	MPIfR	87-48G	A17G	6	sc	BLSNGFYH	2	7	87274
0419+194	T Tau	S	041904240	192504500	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
0420-014		Q	042043541	-012728660	Cohen	CIT	86-21G	C43G	6	v	LSBWJ	2	4	86164
0420-014	*	*	042043541	-012728660	*	*	*		*	*	EKNGFOHYA	2	4	86164
0426+351	LK H 101	S	042657230	350954900	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
0429+41	3C119	Q			van Breugel	RAL	84-59G		18	cs	SBWJKGIOHY1	2	13	85096
0429+41	*	*			*	*	*		*	*	*	*	13	85100
0429+41	*	*			*	*	*		*	*	*	*	4	85102
0430+052	3C120 4C05.20	G	043031600	051459500	Spencer	NRAL	85-26		92	js	RTWJ-Ooty	2/PL	24	86084
0430+052	3C120 4C05.20	G	043031600	051459500	Walker	NRAO	86-20G	W42G	6	slm	SB-KGIFOHAY27	2	15	86155
0430+052	*	*	043031600	051459500	*	*	*	*	*	*	SB-KGIFOH	2	13	86329
0430+052	3C120 4C05.20	G	043031599	051459500	Walker	NRAO	86-20G	W42G	6	slm	BWJSL(Z)	2	5	87148
0430+052	*	*	043031599	051459500	*	*	*	*	*	*	KGIFOHY27	*	14	87148
0430+052	3C120 4C05.20	G	043031600	051459500	Walker	NRAO	86-20G	W42G	6	slm	BLWSJKGIFOH	2	13	87268
0454+844		Q	045457123	842752990	Witzel	MPIfR	84-53G	W38G	6	sur	LSBWJ-KNGYO	2	4	86162
0503+467					Spangler	Iowa	85-30G	S58G	92		WJ-NGIFYOH	2	12	86082
0507+524	NV Aur	M	050720000	524853000	Lesqueren	Meudon	85-71		18	mo	SBWJ	2	8	86069
0518+165	3C138 4C16.12	Q	051816500	163526800	Simon			S42	18		B-KNGFOHY27	B	5	85098
0518+165	3C138 4C16.12	Q	051816526	163526850	Fanti	IRA	85-12		6	css	LSBWJ	2	2	85146
0518+165	*	*	051816256	163526850	*	*	*		*	*	*	*	2	85147
0518+165	*	*	051816256	163526850	*	*	*		*	*	*	*	8	85149

0518+165	3C138,4C16.12	Q	051816530	163526800	Simon	NRL	85-28G	S53G	92	lfv	WJ-AKNGIFOHY1	2		12	86080
0528+134		Q	052806750	132942600	Campbell	GeoIns	86-74		6		BLSWJ	E		1	87276
0532-054	TetaOr	S	053248359	-052507500	Graham	MPIfR	85-51G	G46G	1.3	mo	BSKGOY	2		4	85276
0532-054	*	*	053248359	-052507500	*	*	*	*	*	*	*	*		6	85278
0532-054	*	*	053248359	-052507500	*	*	*	*	*	*	BRSGOY	*		4	85280
0532-054	TetaOr	S	053248359	-052507500	Felli	OAA	86-48		6	mo	LSBWJ	A		4	86332
0532-054	TetaOr	S	053224660	-052430000	Matveyenko		87-S1		1.3	mo	BL(J)R	2/SL	4	87047
0532-054	TetaOr	S	053248359	-05250760	Felli	OAA	87-23		6	sws	BLWSJ	A		4	87272
0548+165					Mantovani	IRA	85-72G	M73G	18	lfv	SLBWJ-KGFO	2		6	86070
0549-074	NGC2110	G	054946400	-072802000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A		.7	85147
0552+201	U Ori	M	055251000	201005000	Lesqueren	Meudon	85-71		18	mo	SBWJ	2		8	86069
0552+398	DA193	Q	055201400	394822000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A		.2	85147
0552+398	DA193	Q	055201370	394821900	Padrielli	IRA	85-43G	P71	6	sc	LSBWJKGOFSa	2		.5	85286
0552+398	DA193	Q	055201400	394821900	Lawrence	NEROC	85-55G	L43G	1.3	sur	BS-KGOY1	2		6	86057
0552+398	DA193	Q	055201400	394821900	Foley	NFRA	87S2		18			2		1	87059
0552+398	DA193	Q	055201418	394821850	Cohen	CIT	87-10G	C46G	6	pfs	BWJSLKNGIOHY	2		3	87147
0552+398	*	Q	055201500	394827500	Campbell	GeoIns	86-74		6		BWLSJ	E		1	87154
0605-085		*	055201500	394827500	*	*	*	*	*		*	*		1	87276
0605-085		Q	060536010	-083419800	Padrielli	IRA	85-43G	P71	6	sc	LSBWJ	2		3	85282
0605-085		Q	060536026	-083419270	Padrielli	IRA	86-45G	P74G	6	fm	LSBWJ-E	2		10	86322
0607-157		*	060536026	-083419270	*	*	*	*	*	*	KGFO	*		10	86323
0610+260	3C154 4C26.20	Q	060725960	-154203180	Padrielli	IRA	85-43G	P71	6	sc	LSBWJKGOFSa	2		3	85286
0611+131		Q	061043720	260530200	Barthel	CIT	86-13G	B72G	6	sm	LSBW-KGYO	2		5	86160
0615+820			061108399	130740120	Ghosh	TIRF	87-56		6	mss	BLSWJ	2		1	87267
0615+820		Q	061532760	820356500	Witzel	MPIfR	84-53G	W38	6	sur	LSBWJKGOY	2		5	85289
0629+104		*	061532760	820356500	*	*	*	*	*	*	*	*		4	86162
0642+449	OH471		062929447	102416170	Ghosh	TIFR	87-56		6	mss	BLSWJ	2		.3	87267
0615+609	NGC2273	Q	064253100	445430000	Gurvits	Kard.	86-46G	G51G	6	sm	BLWJKGFOY27	2		11	87269
0645+609	*	G	064537628	605412780	Pedlar	NRAL	84-56		18	sts	SBWJ	B		2	85103
0650-063		*	064537628	605412780	*	*	*	*	*	*	*	A		.2	85137
0651+542	3C171		065032900	-062126000	Ghosh	TIFR	87-56		6	mss	BLSWJ	2		.3	87267
0700-007		G	065111200	541247000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A		.5	85147
0703+468	DA344		070047400	-004618000	Ghosh	TIFR	87-56		6	mss	BLSWJ	2		.5	87267
0703+468	*	Q	070305910	465237600	Mutel	Iowa	85-63G	M75G	18	cs	SLBWJ	2		14	86075
0703+468	*	*	070305910	465237600	*	*	*	*	*	*	KGIFY27OH	2		14	86075
0710+439		*	070305910	465236700	*	*	*	*	6	*	SBWJKGIFOHY27	2		7	86151
0711+356		G	071003347	435426190	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2		2	86327
0716+174		Q	071105607	353952510	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2		2	86327
0716+714		BL	071613000	712615300	Witzel	MPIfR	84-46G	W39G	1.3	sm	BSKGOY	B		1	85275
0716+714		BL	071613000	712615300	Schalinsky	MPIfR	85-27G	S45G	92	js	WJ-KNGFOH	2		12	86079
0716+714		BL	071613000	712615000	Schalinsky	MPIfR	87-15G	S71G	6	slm	BWJSLZ	2		10	87152
0719+056		*	071613000	712615000	*	*	*	*	*	*	KNGFOHY	*		10	87152
0723+679	3C179 4C67.14		071900700	053655000	Ghosh	TIFR	87-56		6	mss	BLSWJ	2		.5	87267
0735+178		Q	072304260	675453100	Porcas	MPIfR		P68	2.8		B-KGO	B		13	86063
0735+178		Q	073514130	174909200	Greybe	MPIfR	85-58G	G49G	2.8	vp	BL-KGO	C/PL	12	86060
0735+178		*	073514130	174909200	*	*	*	*	*	*	*	C/PL	11	86149
0736+017		Q	073514100	174908400	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
0736+017		Q	073642530	014359900	Padrielli	IRA	85-43G	P71	6	sc	LSBWJ	2	1	85282
0740+380	3C186 4C38.21	*	073642530	014359900	*	*	*	*	*	*	LSBWJKGOFSa	2	4	85286
0740+380	*	Q	074056750	380031300	Fanti	IRA	S4		18	aho	SBWJ	2	1	85098
0740+380	3C186 4C38.21	*	074056750	380031300	*	*	*		*	*	*	*	1	85099
0740+380	*	Q	074056750	380031300	Fanti	IRA	85-65		18	css	LSBWJ	2	12	86073
0740+828		*	074056750	380031300	*	*	*		*	*	*	2	12	86269
0742+318	4C31.30	EF	074000600	825013990	Lawrence	CIT	86-79G	L45G	1.3	ss	BSLKGOY	2	2	87155
0742+318	*	Q	074230720	315016800	Schilizzi	NFRA	85-03G	S52G	2.8	cs	LB-KGFOH	B	21	86060
0742+318	4C31.30	*	074230700	315016700	*	*	*	*	*	*	BL-KGFO	B	3	86147
0754+100		Q	074230720	315016800	Barthel	CIT	86-13G	B72G	6	sm	LSBW-KGYO	2	7	86160
0755+379	3C189 4C37.21	Q			Lawrence	NEROC	85-55G	L43G	1.3	sur	BS-KGOY1	2	6	86057
0758+143	3C190 4C14.25	G	075509200	375520000	Giovannini	IRA	84-52		6	rn	LSBWJ-K	B	2	86163
		Q	075845000	142304000	Fanti	IRA	85-65		18	css	SLBWJ	2	12	86074

0804+499		Q	080458378	495923100	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2	2	86327
0804+499		Q	080458378	495923100	Lawrence	CIT	86-79G	L45G	1.3	ss	BSLKGOY	2	3	87155
0804+499		Q	080458378	495923100	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOHY	2	.5	87270
0804+499		*	080458378	495923100	*	*	*	*	*	*	*	*	.5	87273
0805+046			080519170	044120000	Barthel	CIT	84-05		6		LSBWJ	2	.5	85138
0814+425		Q	081451671	423207610	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2	2	86327
0831+557	4C55.16	G	083104380	554441300	Pearson	CIT		P58	6	sur	BL-KGFOHY	2	6	85282
0831+557	*	*	083104380	554441300	*	*	*	*	*	*	*	*	2	85286
0831+557	4C55.16	G	083104380	554441300	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOHY	2	3	87270
0831+557	*	*	083104380	554441300	*	*	*	*	*	*	*	*	2	87273
0835+580	3C205 4C58.16	Q	083510100	580447000	Barthel	CIT	85-35G	B70G	18	hsm	BWJ-KGOY27	B	14	86069
0835+580	*		083510000	580451000	*	*	*	*	*	*	BWJ-KGOY	B	13	86272
0836+290		G	083613500	290115000	Giovannini	IRA	84-52		6	rn	LSBWJ-K	B	2	86163
0836+710		Q	083621600	710422500	Witzel	MPIfR	84-46G	W39G	1.3	sm	BSKGOY	B	1	85275
0836+710		Q	083621600	710422500	Schalinsky	MPIfR	85-27G	S45G	92	js	WJ-KNGFOH	2	12	86079
0836+710		Q	083621600	710422000	Schalinsky	MPIfR	87-15G	S71G	6	slm	BWJSLZ	2	6	87143
0836+710		*	083621600	710422000	*	*	*	*	*	*	KNGFOHY	*	6	87143
0836+710	4C71.07	Q	083621560	710422460	Witzel	MPIfR	84-53G	W38	6	hdo	LSBWJKNGOY1	2	6	85141
0836+710		Q	083621700	710423200	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
0850+581	4C58.17	Q	085050150	580855700	Pearson	CIT		P58	6	sur	BL-KGFOHY	2	2	85282
0850+581	*	*	085050150	580855700	*	*		*	*	*	*	*	1	85286
0850+581	*	*	085050150	580855700	*	*		*	*	*	*	*	1	85287
0850+581	4C58.17	Q	085050400	580855000	Hooimeyer	Leiden	86-12G	H25G	6		LSBW-KGOY27	2	8	86153
0850+581	4C58.17	Q	085050400	580855000	Canzian	CIT	85-60G	C42G	6	sm	LSBWJ-KGIFYOH	2	5	86155
0851+202	OJ287	BL	085157300	201757600	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
0851+202	OJ287	BL	085157300	201757600	Campbell	GeoIns	86-74		6		BLSWJ	E	1	87276
0859+470	4C47.29	Q	085939990	470256900	Foley	NFRA	S1		18	aho	SBWJ	2	.5	85097
0859+470	*	*	085939990	470256900	*	*			*	*	*	*	.5	85099
0859+470	4C47.29	Q	085939991	470256890	Barthel	CIT	86-58G	B71G	6	sur	BLSWJKGFIOHY	2	2	87270
0859+470	*	*	085939991	470256890	*	*	*	*	*	*	*	*	1	87273
0906+430	3C216 4C43.17	Q	090617250	430559400	Canzian	CIT	85-60G	C42G	6	sm	LSBWJ-KGIFYOH	2	6	86156
0917+449		Q	091741901	445439800	Lawrence	CIT	86-79G	L45G	1.3	ss	BSLKGOY	2	2	87155
0917+624		Q	091740301	622838700	Lawrence	CIT	86-79G	L45G	1.3	ss	BSLKGOY	2	2	87155
0923+392	4C39.25	Q	092355300	391523000	Strom	NFRA	85-16		6	pt	LSBWJ	E	5	85139
0923+392	4C39.25	Q	092355290	391523800	Phillips		aho	aho	2.8		L-KGFOH	2	8	85340
0923+392	4C39.25	Q	092355320	391523500	Marcaide	MPIfR	85-02G	M67G	2.8		BL-KGFOH	2	11	86065
0923+392	4C39.25	Q	092355320	391523500	Strom	NFRA	85-16		6	pt	LSBWJ	C	9	86333
0923+392	4C39.25	Q	092355320	391523500	Marscher	Boston	86-78G	M83G	1.3	slm	BL(J)-KGNOY1	2	14	87048
0923+392	4C39.25	Q	092355320	391523500	Flatters	MPIfR	86-76G	F21G	2.8	pt	BL	C/PL	8	87053
0923+392	*	*	092355320	391523500	*	*	*	*	*	*	KGFOH	2	13	87053
0923+392	4C39.25	Q	092355320	391523500	Marscher	Boston	86-78G	M83G	2.8	slm	SLBWJ	2	10	87056
0923+392	4C39.25	Q	092355400	391524400	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
0923+392	4C39.25	Q	092355320	391523500	Flatters	MPIfR	87-41G	F12G	2.8	po	BLKGFOH	C/PL	13	87266
0931+103	NGC2911	G	093105100	102230000	Hooimeyer	Leiden	85-09G	H17	6	cs	LSBWJGY27	B	11	85145
0945+408	4C20.40	Q	094550080	405343500	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2	2	86327
0951+699	3C231 4C69.12	G	095141900	695457300	Wilkinson	NRAL	84-32		6	sm	LSBWJ	A	12	85290
0951+699	3C231 4C69.12	G	095142000	695457300	Unger	Sussex	84-20		21		LBWJ	2	12	86345
0953+254		Q	095359740	252933500	Lawrence	NEROC	85-55G	L43G	1.3	sur	BS-KGOY1	2	6	86057
0954+556	4C55.17	Q	095414350	533716400	Pearson	CIT	85-42		6		LSBWJ	2	11	86157
0954+658		BL	095457780	654815800	Pearson	CIT	85-42		6		LSBWJ	2	11	86158
0954+658		BL	095457800	654815100	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
0957+561		Q	095757300	560822900	Porcas	MPIfR	85-21		18	sm	SLBWJ	B	11	87058
0957+56A		Q	095757300	560822900	Porcas	MPIfR	85-21		6	sm	LSBWJ	A	12	86331
0957+56A		Q	095757300	560822900	Gorenstein	CfA	86-50G	G50G	6	mon	BLWKGOY27	A/PL	14	87272
0957+56B		Q	095757400	560816900	Porcas	MPIfR	85-21		6	sm	LSBWJ	A	12	86331
0957+56B		Q	095757400	650816900	Gorenstein	CfA	86-50G	G50G	6	mon	BLWKGOY27	A/PL	14	87272
1003+351	3C236 4C35.32	G	100305401	350847800	Barthel	CIT	87-18G	B78G	6	cm	BWSL-KGOY	2	4	87149
1007+417	4C41.21	Q	100725970	414710700	Zensus	CIT		Z12	2.8		BKGO	A	10	87264
1016+201	Ad Leo	S	101654000	200718000	Guedel	Zurigo			18	fs		2	2	87063
1020+201	NGC3227	G	102046764	200706360	Pedlar	NRAL	84-56		18	sts	SBWJ	B	2	85103

1020+201	*	*	102046764	200706360	*	*	*			*	*	LSBWJ	A	.2	85136
1020+201	NGC3227	G	102046700	200706300	Pedlar	NRAL	84-56			6				.3	85286
1031+567	OL533	G	103155970	564418100	Pearson	CIT	85-42			6		LSBWJ	2	11	86159
1037+302		G	103742800	301339000	Giovannini	IRA	84-52			6	rn	LSBWJ-K	B	2	86163
1039+811		Q	103927790	811023700	Witzel	MPIfR	84-53G	W38		6	sur	LSBWJKGOY	2	5	85289
1040+123	3C245 4C12.37	G	104005980	121914500	Barthel	CIT	84-05			6		LSBWJ	2	11	85138
1040+123	3C245 4C12.37	G	104006100	121916000	Hough	JPL	86-77G	H31G		2.8	sm	BL-KGFO	B	12	87052
1055+018	4C01.28	Q	105555310	015003700	Mantovani	IRA	aho	aho		2.8		L-KGFOH	2	11	85342
1055+201	4C20.24	Q	105337540	200755300	Barthel	CIT	84-05			6		LSBWJ	2	.5	85139
1055+201	4C20.24	Q	105537100	200727000	Hooimeyer	Leiden	86-12G	H25G		6	cs	LSBW-KGOY27	2	5	86152
1142+199	3C264 4C19.40	G	114229600	193516000	Giovannini	IRA	84-52			6	rn	LSBWJ-K	B	1	86163
1144+352		G	114445000	351747000	Giovannini	IRA	84-52			6	rn	LSBWJ-K	B	1	86163
1150+497	4C49.22	Q	115047980	494750100	Kulkarni	Ooty	84-37			18	css	SBWJ	2	2	85102
1150+812		Q	115023480	811510200	Witzel	MPIfR	84-53G	W38		6	hdo	LSBWJKNGOY1	2	6	85150
1150+812		Q	115023500	811510300	Witzel	MPIfR	84-46G	W39G		1.3	sm	BSKGOY	B	1	85275
1153+317	4C31.38	Q	115344090	314445700	Kulkarni	Ooty	84-37			18	css	SBWJ	2	2	85102
1156+295	Ton599 4C29.45	Q	115658100	293124000	McHardy	Leich	86-06G	M78G		1.3	sm	SB-KNGYO	2	8	86146
1156+295	Ton599 4C29.45	Q	115658100	293124000	McHardy	Leich.	87-04G	M68G		6	var	BWJSL	2	3	87146
1156+295	*	*	115658100	293124000	*	*	*	*		*	*	KGIFOYH	2	7	87146
1156+295	*	*	115658100	293124000	*	*	*	*		*	*	BWJSLKGIFOYH	2	4	87147
1156+295	Ton599 4C29.45	Q	115658100	293124000	McHardy	Leich.	86-06G	M78G		2.8	sm	BLKGOH	2	7	87265
1200+448	NGC4051	G	120036397	444834480	Pedlar	NRAL	84-56			18	sts	SBWJ	B	2	85103
1200+448	*	*	120036397	444834480	*	*	*			6	*	LSBWJ	A	.2	85136
1208+396	NGC4151	G	120801000	304102000	Preuss	MPIfR	84-54G	P64		6	sm	LSBWJGY27	A	6	85142
1200+446	NGC4051	G	120036400	444834500	Pedlar	NRAL	84-56			6				.3	85286
1208+397	NGC4151		120801000	394102000	Preuss	MPIfR	85-64			6		LSBW	A	12	86162
1213+350	4C35.28	Q	121324800	350455000	Preuss	MPIfR	84-54G	P64		6	sm	LSBWJGY27	A	6	85142
1217+295	NGC4278	G	121736200	293329000	Hooimeyer	Leiden	85-08G	H17		6	cs	BLSWJGOY27	B	5	85283
1217+295	*	*	121736200	293329000	*	*	*	*		*	*	*	*	5	85287
1218+339	3C270.1 4C33.29	Q	121803900	335950000	Barthel	CIT	84-05			6		LSBWJ	2	.5	85139
1219+285		BL	121901200	283037400	Roberts	MA	87-12G	R41G		6	spv	BWLKGFOHY27	C/PL	1	87151
1222+131	3C272.1 4C13.47	G	122231600	130949900	Preuss	MPIfR	84-31G	P63G		6	sm	BSLWGOY27	B	12	85284
1222+216	4C21.35	Q	122223300	213939000	Hooimeyer	Leiden	86-12G	H25G		6	cs	LSBW-KGOY27	2	4	86152
1223+129	NGC4388	G	122314700	125618900	Pedlar	NRAL	84-56			18	sts	SBWJ	B	2	85103
1223+129	*	*	122314700	125618900	*	*	*			6	*	LSBWJ	A	.2	85136
1223+129	*	*	122314700	125618900	*	*	*			*	*			.3	85286
1225+368	ON363	EF	122530780	365146900	Kulkarni	Ooty	84-37			18	css	SBWJ	2	2	85102
1225+444			122544800	442323000	de Bruyn	NFRA	85-74			21	snr	LSBWJ	A	12	86347
1226+023	3C273 4C02.32	Q	122633200	021943000	Zensus	CIT	85-17G	Z10		6	hdo	LSBWJKNGIFY1	2	11	85150
1226+023	3C273 4C02.32	Q	122633250	021943300	Cohen	CIT		C38G		2.8	slm	BL-KGFOH-X	2	13	85221
1226+023	3C273 4C02.32	Q	122633248	021943200	Unwin	CIT	85-01G	U15G		1.3	slm	BSKNGOY	2	7	85274
1226+023	*	*	122633248	021943200	*	*	*	*		*	*	*	*	3	85276
1226+023	*	*	122633248	021943200	*	*	*	*		*	*	*	*	4	85277
1226+023	3C273 4C02.32	Q	122633250	021943200	Davis	NRAL	85-69G			18	sm	RSBWJ	2/PL	11	86066
1226+023	*	*	122633250	021943200	*	*	*	*		*		KGFY1OA	*	11	86067
1226+023	3C273 4C02.32	Q	122633250	021943200	Zensus	CIT	86-05G	Z13G		1.3	sm	SBJ-KNGOY	2	5	86144
1226+023	*	*	122633250	021943200	*	*	*	*		*	*	*	*	10	86145
1226+023	3C273 4C02.32	Q	122633248	021943290	Cohen	CIT	86-21G	C43G		6	v	LSBWJ	2	4	86163
1226+023	*	*	122633248	021943290	*	*	*	*		*	*	EKNGFOHYA	2	4	86163
1226+023	3C273 4C02.32	Q	122633200	021943400	Zensus	CIT	86-05G	Z13G		1.3	slm	BSJ-KNGOY1	2	19	86320
1226+023	3C273 4C02.32	Q	122633248	021943190	Zensus	CIT		AH1		2.8		BL-KGFOH	2	10	87055
1226+023	3C273 4C02.32	Q	122633250	021943200	Zensus	CIT	86-53G	Z14G		2.8	slm	BL-KGOFH	2	12	87055
1226+023	3C273B 4C02.32	Q	122633300	021942600	Foley	NFRA	87S2			18			2	1	87059
1226+023	3C273 4C02.32	Q	122633800	021943300	Campbell	GeoIns	86-74			6		BWLSJ	E	1	87154
1228+126	3C274 4C12.45	G	122817700	124001000	Zensus	CIT	87-01G	Z13G		1.3	slm	BSLKNGOY	2	8	87158
1228+126	3C274 4C12.75	G	122817000	123924000	Spencer	NRAL		S46G		1.3	sm	BSLJ-KNGOY1	B	11	86321
1253-055	3C279 4C-05.55	Q	125335836	-053108000	Spencer	NRAL	86-02G	S64G		1.3	sm	BL(J)-KNGOY1	B	11	87047
1253-055	3C279 4C-05.55	Q	125335840	-053108000	Pilbratt	Onsala	84-26G	P62		6	sc	TLSBWJKGOY1	2	12	85146
1253-055	3C279 4C-05.55	Q	125335839	-053108040	Cohen	CIT		C38G		2.8	slm	BL-KGFOH-X	2	13	85222
					Unwin	CIT	85-01G	U15G		1.3	slm	BSKNGOY	2	7	85274

1253-055	*	*	125335839	-053108040	*	*	*	*	*	*	*	*	3	85276
1253-055	*	*	125335839	-053108040	*	*	*	*	*	*	*	*	4	85277
1253-055	3C279 4C-05.55	Q	125335839	-053108040	Zensus	CIT		AH1	2.8		BL-KGFOH	2	6	87054
1253-055	3C279 4C-05.55	Q	125335840	-053108000	Pilbratt	ESTEC	86-65G	P76G	18	sc	SLBWJTR	2	11	87058
1253-055	*	*	125335840	-053108000	*	*	*	*	*	*	KGYOHNF	2	12	87058
1253-055	3C279 4C-05.55	Q	125335839	-053108000	Lawrence	CIT	86-79G	L45G	1.3	ss	BSLKGOY	2	1	87155
1259+285		BL			Lawrence	NEROC	85-55G	L43G	1.3	sur	BS-KGOY1	2	6	86057
1308+326		BL	130807600	323639800	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
1322+366	4C36.24	G	132235000	363819000	Giovannini	IRA	84-52		6	rn	LSBWJ-K	B	1	86163
1323+321	4C32.44	G	132357960	320943800	Kulkarni	Ooty	84-37		18	css	SBWJ	2	2	85102
1328+254	3C287 4C25.43	Q	132815918	252437580	Fanti	IRA	84-10		6	css	LSBWJ	2	13	85140
1328+254	3C287 4C25.43	Q	132815920	252437500	Spencer	NRAL	85-26		92	js	RTWJ-Ooty	2/PL	24	86084
1328+307	3C286 4C30.26	Q	132849660	304558700	Spencer	NRAL	85-26		92	js	RTWJ-Ooty	2/PL	24	86084
1328+307	3C286 4C30.26	Q	132849654	304558700	Schilizzi	NFRA	87-47		6	css	BLWJSZ	2	13	87276
1332+374	HR5110	B	132333900	372616000	Lestrade	JPL	87-09G	L49G	6	bm	BL-GOY	A/PL	10	87145
1334-127			133959813	-124209900	Cohen	CIT	87-10G	C46G	6	pfs	BWJSLKNGIOHY	2	2	87143
1342+561	MRK273	G	134251600	560814000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A	1	85147
1342+662		Q	134217900	661728000	Morabito	JPL	86-70G	M84G	6	sm	BLKGFOY	2	19	87153
1345+125	4C12.50	G	134506170	123221300	Kulkarni	Ooty	84-37		18	css	SBWJ	2	2	85102
1345+259	4C26.42	G	134560000	255960000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A	.5	85147
1351-018		Q	135132000	-010512000	Gurvits	Kard.	86-46G	G51G	6	sm	BLWJNGFHY27	2	9	87276
1358+624	4C62.22	G	135858360	622506600	Pearson	CIT	85-42		6		LSBWJ	2	10	86161
1358+624	4C62.22	G	135858360	622506700	Foley	NRFA	87-S3		6		SBWLJ	2	3	87148
1402+044		Q	140230000	042955000	Gurvits	Mosca	86-46G	G51G	6	sm	LSBW-KGOY	2	10	86325
1404+286	OQ208	G	140445600	284130000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A	.5	85147
1404+286	OQ208	G	140445630	284129100	Padrielli	IRA	85-43G	P71	6	sc	LSBWJKGOFSa	2	2	85286
1404+286	OQ208	G	140445600	284129100	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
1404+286	*	*	140445600	284129100	*	*	*		*		*	*	1	87276
1413+349	OQ323	EF	141356270	345829500	Kulkarni	Ooty	84-37		18	css	SBWJ	2	2	85102
1418+546		Q	141806200	543657800	Alef	MPIfR	87-S4	Ad H	2.8		BLKGFOH	2	.3	87263
1422+202	4C20.33	Q	142237500	201349000	Baath		86-32		18	hsm	SLBWJ	B	12	87060
1441+522	3C303 4C52.33	G	144124800	521418300	Giovannini	IRA	84-52		6	rn	LSBWJ	B	1	85285
1441+522	*	*	144124800	521418300	*	*	*		*	*	*	*	.5	85289
1456-165			145637000	-162941300	Gardner	CSIRO	85-73		21		LSBWJ	2	6	86349
1458+718	3C309.1 4C71.15	Q	145856650	715211000	Kus	Torun	86-11G	K17G	6	ji	ZLSBWJ	2	10	86159
1458+718	*	*	145856650	715211000	*	*	*	*	*	*	KNIGFYOH	2	10	86159
1458+718	*	*	145856650	715211000	*	*	*	*	*	*	ZLSBWJ	2	8	86163
1458+718	*	*	145856650	715211000	*	*	*	*	*	*	KNIGFYOH	2	8	86163
1510-089		Q	151008910	-085447200	Padrielli	IRA	85-43G	P71G	6	sc	LSBWJ-E	2	4	86155
1510-089		*	151008910	-085447200	*	*	*	*	*	*	LSBWJ-EKGFO	2	10	86157
1511+263	3C315 4C26.47	G	151130800	261839000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	.5	85285
1517+204	3C318 4C20.35		151750600	202652900	Fanti	IRA	85-65		18	css	SLBWJ	2	12	87061
1524+418	NGC5929	G	152418881	415040310	Pedlar	NRAL	84-56		18	sts	SBWJ	B	2	85103
1524+418	*	*	152418881	415040310	*	*	*		6	*	LSBWJ	A	.2	85136
1524+418	*	*	152418800	415040200	*	*	*		*				.3	85286
1524+418	NGC5929	G	152418950	415040700	Pedlar	NRAL	85-34		21	sm	LSBWJ	B	13	86348
1538+149		BL	153830300	145721300	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
1548+114	4C11.50	Q	154821170	112947790	Hooimeyer	Leiden	87-54G	H36G	6	slm	BLWJKGFOY27	2	9	87269
1548+114	*	*	154821170	112947790	*	*	*	*	*	*	*	*	5	87275
1607+268	CTD93	EF	160709300	264918600	Porcas	MPIfR	86-14G	P73G	6	eo	LSBW-KGOY27	2	4	86153
1607+268	*	*	160709300	264918600	*	*	*	*	*	*	LSBW	*	4	86154
1607+268	*	*	160709300	264918600	*	*	*	*	*	*	LSBW	*	6	86155
1607+268	*	*	160709300	264918600	*	*	*	*	*	*	KGOY27	*	8	86155
1607+268	CTD93	EF	160709300	264918000	Phillips	NEROC	86-36G	P75G	18	sm	R-LSBWJ	2	11	86271
1607+268	*	*	160709300	264918000	*	*	*	*	*	*	KNIGFOHADY	2	14	86271
1607+268	CTD93	EF	160709289	264918600	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
1607+268	*	*	160709289	264918600	*	*	*	*	*	*	*	*	.5	87144
1614+051		Q	161409100	050654000	Gurvits	Kard.	86-46G	G51G	6	sm	BLWJKGFOY27	2	9	87268
1623+190	U Her	M	162353000	190017000	Sivagnanam	Meudon	86-35		18	mo	SLBWJ	2/SL	13	87062
1624+416	4C41.32	EF	162418243	414123400	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOHY	2	4	87273

1626+396	3C338	4C39.45	G	162655300	393936000	Giovannini	IRA	84-52			6	rn	LSBWJ	B	1 85285
1626+396	*		*	162655300	393936000	*	*	*			*	*	*	*	.5 85289
1633+382	4C38.41		Q	163330622	381410000	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2	2	86327
1634+628	3C343		Q	163401057	625141830	Fanti	IRA	85-S6		6	css	LSBWJ	2	2	85147
1634+628	3C343	4C62.26	Q	163401060	625141800	van Breugel	RAL	84-59G		18	css	SBWJ-KGIOHY27	2	10	86071
1634+628	*	4C62.26	*	163401060	625141800	*	*	*		*	*	KGIOHY27	2	6	86072
1637+574			Q	163717428	572615700	Barthel	CIT	86-58G	B74G	6	sur	LSBWJ-KGIFYOH	2	2	86327
1637+826	NGC6251		G	163756950	823818500	Jones	JPL	84-65G	J38	18	eo	SBWJKNGFOY27	2	18	85098
1641+173	3C346	4C17.70	G	164134600	172121000	Giovannini	IRA	84-52		6	rn	LSBWJ-K	B	1	86163
1641+399	3C345	4C39.48	Q	164117610	395410800	Baath	Onsala	84-66		18	eo	SBWJ	2	17	85099
1641+399	3C345	4C39.48	Q	164117609	395410810	Unwin	CIT	85-01G	U15G	1.3	slm	BSKNGOY	2	7	85274
1641+399	*		*	164117609	395410810	*	*	*	*	*	*	*	*	3	85276
1641+399	*		*	164117609	395410810	*	*	*	*	*	*	*	*	4	85277
1641+399	3C345	4C39.48	Q	164117610	395410800	Zensus	CIT	85-17G	Z10	6	sm	LSBWJKNGIOFHY	2	16	85281
1641+399	3C345	4C39.18	Q	164117600	395410800	Zensus	CIT		Z11X	2.8		L-KGFOH	2	13	85341
1641+399	3C345	4C39.48	Q	164117600	395411100	Zensus	CIT	85-47G	Z11G	2.8	ps	BL-KGFO	C/PL	16	86062
1641+399	3C345	4C39.48	Q	164120300	395410800	Spencer	NRAL	85-26		92	js	RTWJ-Ooty	2/PL	24	86084
1641+399	*		Q	164117610	395410800	Zensus	CIT	86-05G	Z13G	1.3	sm	SBJ-KNGOY	2	5	86144
1641+399	*		*	164117610	395410800	*	*	*	*	*	*	*	*	10	86145
1641+399	3C345	4C39.48	*	164117600	395410800	*	*	*	*	*	*	*	*	16	86319
1641+399	*		Q	164117609	395410810	Zensus	CIT	86-53G	Z14G	6	slm	LSBWJ-Z	2	15	86329
1641+399	3C345	4C39.48	*	164117609	395410810	*	*	*	*	*	*	KNGIFYOH	*	15	86329
1641+399	3C345	4C39.48	Q	164117610	395410800	Zensus	CIT	86-53G	Z14G	2.8	slm	BL-KGOFH	2	12	87055
1641+399	3C345	4C39.48	Q	164117609	395410810	Zensus	CIT		AH1	2.8		BL-KGFOH	2	14	87055
1641+399	3C345	4C39.48	Q	164117600	395410800	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
1641+399	3C345	4C39.48	Q	164117600	395410800	Zensus	CIT	87-01G	Z13G	1.3	slm	BSLKNGOY	2	10	87156
1641+399	3C345	4C39.48	Q	164117600	395411100	Alef	MPIfR	87-S4	AdH	2.8		BLKGFHO	2	.3	87263
1642+690	4C69.21		Q	164117600	395411100	Campbell	GeoIns	86-74		6		BLSWJ	E	1	87276
1642+690	*		Q	164218030	620213200	Barthel	CIT	aho	aho	2.8		BL-KGFOH	2	6	85220
1642+690	4C69.21		*	164218030	620213200	*	*	*	*	*		*	*	5	85222
1642-03			Q	164218030	690213200	Canzian	CIT	85-60G	C42G	6	sm	LSBWJ-KGIFYOH	2	7	86156
1650+024	NGC6240		PR			Gwinn	CfA	85-31G	G47G	92	is	WJ-AKNGFO	2	9	86082
1652+398	4C39.49		G	165027800	022850000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A	.5	85147
1721+343	4C34.47		G	165211749	395024600	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOHY	2	4	87273
1721+343	*		Q	172131900	342041900	Schilizzi	NFRA	85-03	S52G	2.8	cs	LB-KGFOH	B	21	86060
1721+343	4C34.47		*	172131900	342041900	*	*	*	*	*	*	BL-KGFO	B	3	86147
1722+330			Q	172131900	342041900	Barthel	CIT	86-13G	B72G	6	sm	LSBW-KGYO	2	9	86159
1730-130	NRA0530			172222800	330541000	Alef	MPIfR	87-S4	AdH	2.8		BLKGFHO	2	2	87263
1730-130	*		Q	173013540	-130245930	Padrielli	IRA	85-43G	P71G	6	sc	LSBWJ-E	2	2	86155
1730-130	NRA0530		*	173013540	-130245930	*	*	*	*	*	*	LSBWJ-EKGOF	2	10	86157
1730-130	*		Q	173013540	-130245930	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
1732+65			*	173013540	-130245930	*	*	*		*		*	*	1	87276
1739+522	4C51.37					Zensus	CIT		Z9	2.8		B-KGO	A	14	85218
1739+522	4C51.37		Q	173929020	521310500	Pearson	CIT		P58	6	sur	BL-KGFOHY	2	3	85286
1739+522	4C51.37		Q	173929000	521310500	Lawrence	CIT	86-79G	L45G	1.3	ss	BL-KGOY1	2	5	87048
1739+522	*		Q	173929023	521310490	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOHY	2	1	87268
1739+522	4C51.37		*	173929023	521310490	*	*	*	*	*	*	*	*	3	87272
1741-038			Q	173929005	521310450	Hooimeyer	Leiden	87-54G	H36G	6	slm	BLWJNGFHY27	2	5	87275
1748-253			Q	174120619	-034848880	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1749+096	4C09.57	OT081		174845789	-252317430	Ghosh	TIFR	87-56		6	mss	BLSWJ	2	1	87267
1749+096	*		Q	174910400	093942800	Greybe	MPIfR	85-58G	G49G	2.8	vp	LB-KGO	C/PL	12	86060
1749+096	4C09.57	Ot081	*	174910400	093942800	*	*	*	*	*	*	*	C/PL	11	86149
1749+096	*		Q	174910385	093942800	Cohen	CIT	86-21G	C43G	6	v	LSBWJ	2	3	86157
1749+096	4C09.57	OT081	*	174910385	093942800	*	*	*	*	*	*	EKNGIFYOHA	*	3	86157
1749+096	*		Q	174910400	093942800	Cohen	CIT	87-10G	C46G	6	pfs	BWJSLKNGIOHY	2	1	87143
1749+096	4C09.57	OT081	*	174910400	093942800	*	*	*	*	*	*	*	2	3	87148
1749+701			Q	174901400	093942800	Roberts	MA	87-12G	R41G	6	spv	BWLKGFOHY27	C/PL	1	87151
1749+701			BL	174903400	700639600	Witzel	MPIfR	84-46G	W39G	1.3	sm	BSKGOY	B	1	85275
1749+701			BL	174903380	700639500	Pearson	CIT		P58	6	sur	BL-KGFOHY	2	3	85285
			*	174903380	700639500	*	*	*	*	*	*	*	*	1	85286

1749+701			*	174903380	700639500	*	*		*	*	*	*	4	85287
1749+701			BL	174903390	700639400	Witzel	MPIfR	84-53G	W38	6	sur	LSBWJKGOY	2	2	85288
1749+701			BL	174903400	700640000	Roberts	MA	87-12G	R41G	6	spv	BWLKGIOHY27	C/PL	1	87151
1802-046				180251900	-043827000	Ghosh	TIFR	87-56		6	mss	BLWSJ	2	.3	87267
1803+784			G	180339200	782754300	Witzel	MPIfR	84-46G	W39G	1.3	sm	BSKGOY	B	1	85275
1803+784			G	180339180	782754300	Witzel	MPIfR	84-53G	W38	6	sur	LSBWJKGOY	2	2	85288
1803+784			G	180339200	782754300	Schalinsky	MPIfR	85-27G	S45G	92	js	WJ-KNGFOH	2	11	86080
1803+784			G	180339200	782753500	Roberts	MA	87-12G	R41G	6	spv	BWLKGIOHY27	C/PL	1	87151
1803+784			G	180339200	782753500	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
1803+784			*	180339200	782753500	*	*			*		*	*	1	87276
1807+698	3C371	4C69.24	G	180718544	694856980	Lind	CIT	84-58G	L37	6		LSBWJKGIOY27	2	24	85148
1807+698	3C371	4C69.24	G	180718540	694856900	Wilkinson	NRAL	85-68G		18	sm	RSLBWJKGNFYOH	2	18	86068
1807+698	3C371	4C69.24	G	180718550	694856900	Canzian	CIT	85-60G	C42G	6	sm	LSBWJ-KGIFYOH	2	6	86156
1816-029				181640140	-025926600	Ghosh	TIFR	87-56		6	mss	BLSWJ	2	1	87267
1818-04			PR			Gwinn	CfA	85-31G	G47G	92	is	WJ-AKNGFO	2	9	86082
1819-096				181943611	-094028700	Ghosh	TIFR	87-56		6	mss	BLWSJ	2	.3	87267
1821+107			Q	182141680	104243900	Ghosh	TIFR	87-56		6	mss	BLWSJ	2	.3	87267
1823+568	4C56.27		Q	182314990	564918000	Foley	NFRA	S1		18	aho	SBWJ	2	.5	85097
1823+568	*		*	182314990	564918000	*	*			*	*	*	*	.5	85099
1823+568	4C56.27		Q	182314990	564918000	Lawrence	NEROC	85-55G	L43G	1.3	sur	BS-KGOY1	2	6	86057
1823+568	4C56.27		Q	182314949	564918050	O'Dea	NRAO	86-33		18	sm	SLBWJ	2	12	87062
1823+568	4C56.27		Q	182314948	564928100	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOYH	2	3	87268
1823+568	*		*	182314948	564928100	*	*	*	*	*	*	*	*	.5	87273
1830+285	4C28.45		Q	183052200	283117000	Hooimeyer	Leiden	86-12G	H25G	6	cs	LSBW-KGOY27	2	5	86153
1830-211				183040621	-210600330	Ghosh	TIFR	87-56		6	mss	BLWSJ	2	1	87267
1833+326	3C382		G	183311900	323919000	Giovannini	IRA	84-52		6	rn	LSBWJ	B	.3	85289
1835-060				183520009	-060503300	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1835-061				183521480	-060600500	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1835-063				183523659	-062119970	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1844-019				184423611	-015934080	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1845+018				184512500	010509000	Ghosh	TIFR	87-56		6	mss	BLWSJ	2	.3	87267
1845+797	3C390.3	4C79.18	G	184537802	794306342	Alef	MPIfR	84-55G	A9	6	sv	LSBWJKGFY10	2	24	85144
1845+797	3C390.3	4C79.18	G	184537800	794306300	Alef	MPIfR	86-47G	A11G	6	sc	LSB-KGFOY	2	5	86326
1845+797	3C390.3	4C79.18	G	184537573	794306510	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOHY	2	.5	87272
1845+797	3C390.3	4C79.18	G	184573573	794306400	Alef	MPIfR	87-48G	A17G	6	sc	BLSNGFYH	2	14	87274
1845+797	*		*	184537573	794306510	*	*	*	*	*	*	*	*	2	87274
1845-018	W43(OH)		M	184505200	-014818000	Diamond	MPIfR	86-01G	D12G	1.3	pm	LSB-KGYO	2/PL	10	86143
1845-018	*		*	184505200	-014818000	*	*	*	*	18	pm	SBWJ-KGO	2/SL	10	86273
1845-018	*		*	184505200	-014818000	*	*	*	*	1.3	pm	BS-KNGOY1	2/SL	10	86320
1850+008				185017503	005145610	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1850+011				185045960	011112340	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1855+031				185532177	030911200	Fey	Iowa	87-34G	F13G	1.3	ab	BLKGIOHY	2	1	87154
1859+03			PR			Gwinn	CfA	85-31G	G47G	92	is	WJ-AKNGFO	2	9	86082
1900+01			PR.			Gwinn	CfA	85-31G	G47G	92	is	WJ-AKNGFO	2	9	86082
1901+319	3C395			190102306	315513910	Banhatti		86-26		18	sm	RZ-LSBW	2	14	86268
1901+319	3C395			190102306	315513910	Simon	NRL	86-51G	S47G	6	slm	LSBWJKNGIFOHY	2	13	86324
1901+319	3C395			190102306	315513910	Banhatti		86-26		18	sm	SLBWJTR	2	4	87059
1901+319	*			190102306	315513910	*		*		*	*	*	*	5	87061
1907+089				190757667	085646860	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
1907+508	NGC6764		G	190701300	505106000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A	.5	85147
1908+087				190803326	084724000	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
1908+088				190805431	084834310	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
1908+09A				190809874	090324660	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
1908+09B				190836590	091336550	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
1908+09C				190854746	091713450	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
1909+048	SS433		S	190921300	045354000	Schilizzi	NFRA	84-57		6	jd	LSBWJ	A	13	85137
1909+048	*		*	190921300	045354000	*	*	*		*	*	*	E	13	85139
1909+048	*		*	190921300	045354000	*	*	*		*	*	*	*	13	85141
1909+048	*		*	190921300	045354000	*	*	*		*	*	*	*	13	85143
1909+048	*		*	190921300	045354000	*	*	*		*	*	*	*	13	85145

1909+048	*	*	190921300	045354000	*	*	*			*	*	*	*	13 85147
1909+048	SS433	S	190921200	045353000	Fejes		86-AH1			18		SLBWJ	B	11 86074
1909+048	SS433	S	190921300	045354000	Vermeulen	Leiden	86-69			6	jd	SLBWJG	A	11 87142
1909+048	*	*	190921300	045354000	*	*	*			*	*	*	*	11 87144
1909+048	*	*	190921300	045354000	*	*	*			*	*	*	*	11 87146
1909+048	*	*	190921300	045354000	*	*	*			*	*	*	*	11 87148
1909+048	*	*	190921300	045354000	*	*	*			*	*	*	*	11 87150
1909+048	*	*	190921300	045354000	*	*	*			*	*	*	*	11 87152
1909+048	SS433	S	190921300	045354000	De Bruyn	NFRA	87-17G	B79G		6	ast	BWLJSKGY27	B	9 87271
1910+052			191027000	051317000	Schilizzi	NFRA	S5			18	aho	SBWJ	2	1 85098
1910+052			191027000	051317000	Ghosh	TIFR	87-56			6	mss	BLWSJ	2	.3 87267
1911+108			191106254	104826860	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1911-019			191103000	-015658000	Ghosh	TIFR	87-56			6	mss	BLWSJ	2	.3 87267
1912+11A			191214693	111925000	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1912+11C			191233749	114038600	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1913+115			191319493	113302770	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1919+21		PR			Gwinn	CfA	85-31G	G49G		92	is	WJ-AKNGFO	2	9 86082
1920+154			192018200	152421800	Inoue	NRO	86-10			6		LSBW	2	1 86161
1922+155			192223158	153443210	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1923+501	Cygn-X3	SS	192314100	500831000	Spencer	NRAL	84-11			6		LSBWJ	B	.7 85137
1923+501	Cygn-X3	SS	192314100	500831000	Spencer	NRAL	84-11			6		LSBWJ	B	.5 85139
1923+501	*	*	192314100	500831000	*	*	*			*		*	*	.5 85141
1923+501	*	*	192314100	500831000	*	*	*			*		*	*	.5 85143
1923+501	Cygn-X3	SS	192314100	500831000	Molnar	CfA	85-49G	M71G		1.3	sm	BSKGOY27	A	18 85278
1923+501	*	*	192314100	500831000	*	*	*			*	*	*	*	18 85279
1924+112	IRC+10420	S	192426740	111511200	Diamond	MPIfR	86-34			18	mfs	SLBWJ	C/SL	12 87060
1924+112	*	*	192426740	111511200	*	*	*			*	*	*	C/PL	* 87060
1928+738	4C73.18	Q	192849300	735144900	Witzel	MPIfR	84-46G	WJ9G		1.3	sm	BSKGOY	B	1 85275
1928+738	4C73.18	Q	192849400	735145000	Marcaide	Granad	85-07G	M66G		6	pr	BLSKGFOY	B	7 85282
1928+738	4C73.18	Q	192849340	735144900	Schalinsky	MPIfR	85-27G	S45G		92	js	WJ-KNGFOH	2	11 86080
1928+738	4C73.18	Q	192849340	735144700	Witzel	MPIfR	84-46G	W39G		1.3	ss	LSBJ-KGYO	B	5 86145
1928+738	4C73.18	Q	192849500	735144800	Witzel	MPIfR		W45G		1.3		BSLRKNGOY	2	12 87159
1929+10		PR			Gwinn	CfA	85-31G	G47G		92	is	WJ-AKNGFO	2	9 86082
1929+186			192927132	184142860	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1933+16		PR			Gwinn	CfA	85-31G	G47G		92	is	WJ-AKNGFO	2	9 86082
1934+207			193437428	204450320	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1937+21		PR			Gwinn	CfA	85-31G	G47G		92	is	WJ-AKNGFO	2	9 86082
1938+22B			193847059	225844260	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1948+269			194845500	265854300	Fey			AH2		18	sur	BL-KGOYIFH	2	.5 87060
1951+277			195142734	274509760	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1951+49					Zensus	CIT		Z9		2.8		B-KGO	A	14 85217
1954+282			195443700	281253100	Wielebinsky	MPIfR	85-57			6	aho		2	1 85285
1954+282			195443700	281252700	Fey			AH2		18	sur	BL-KGOYIFH	2	.5 87060
1954+513		Q	195422480	512346500	Pearson	CIT		P58		6	sur	BL-KGFOHY	2	6 85280
1954+513		Q	195422479	512346510	Barthel	CIT	86-58G	B74G		6	sur	BLSWJKGFIOHY	2	2 87268
1954+513		*	195422479	512346510	*	*	*	*		*	*	*	*	2 87272
1954+513		*	195422479	512346510	*	*	*	*		*	*	*	*	.5 87273
1954-020	RR Aql	M	195458000	-020111000	Lesqueren	Meudon	85-71			18	mo	SBWJ	2	8 86069
1956+350	Cygn-X1	S	195628660	350354000	Lestrade	JPL	86-49G	L44G		6	sss	BW-KGOY27	B	2 86323
1956+350	*	*	195628660	350354000	*	*	*	*		*	*	*	*	2 86324
1956+350	*	*	195628660	350354000	*	*	*	*		*	*	*	*	2 86326
1956+350	*	*	195628660	350354000	*	*	*	*		*	*	*	*	2 86327
1957+299			195753844	295840730	Fey	Iowa	87-34G	F13G		6	ab	BL-KGOYIFH	2	.5 87143
1957+406	Cygn A	G	195744500	403546900	Scheuer	MRAO	86-41			18	hsm	LSBWJ	A	18 86270
1957+406	Cygn A	*	195744500	403546900	Linfield	JPL	85-10G	L49G		6	cm	LSBWJ	B	10 86323
1957+406	*	*	195744500	403546900	*	*	*	*		*	*	KNGOY	*	5 86323
1957+406	*	*	195744500	403546900	*	*	*	*		*	*	LSBWJ	*	6 86323
1957+406	*	*	195744500	403546900	*	*	*	*		*	*	KNGOY	*	8 86323
2001+304			200130300	302559200	Fey			AH2		18	sur	BL-KGOYIFH	2	.5 87061
2005+403		Q	200559500	402101800	Lawrence	CIT	86-79G	L45G		1.3	ss	BL-KGOY1	2	3 87048

2005+403		Q	200559562	402101790	Cohen	CIT	87-10G	C46G	6	pfs	BWJSLKNGIOHY	2	1	87147
2005+403		*	200559562	402101790	*	*	*	*	*	*	*	*	2	87148
2007+777		Q	200720480	774358120	Witzel	MPIfR	84-53G	W38	6	hdo	LSBWJKNGOY1	2	6	85150
2007+777		Q	200720400	774358100	Witzel	MPIfR	84-46G	W39G	1.3	sm	BSKGOY	B	1	85275
2007+777		Q	200720600	774358100	Marcaide	Granad	85-07G	M66G	6	pr	BLSKGFOY	B	7	85282
2007+777		Q	200720420	774357900	Lawrence	NEROC	85-55G	L43G	1.3	sur	BS-KGOYI	2	6	86057
2007+777		Q	200720500	774357900	Witzel	MPIfR	84-46G	W39G	1.3	ss	LSBJ-KGYO	B	5	86145
2008+313	ON1	M	200809800	312241000	Baudry	Bdeaux	86-44		6	mo	LSBWJ-G	2/SL	3	86330
2008+33A			200814400	332222800	Fey			AH2	18	sur	BL-KGOYIFH	2	.5	87060
2008+33A			200814419	332222760	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2008+33B			200821100	332050400	Fey			AH2	18	sur	BL-KGOYIFH	2	.5	87061
2008+33C			200834786	331733760	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2008+33D			200853000	331315900	Fey			AH2	18	sur	BL-KGOYIFH	2	.5	87061
2008+33D			200852982	331315890	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2008+33D			200852982	331315890	*	*	*	*	*	*	*	*	.5	87144
2009+332			200900106	331742500	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2009+333			200900962	331813500	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOTIFH	2	.5	87143
2009+336			200953568	333727730	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2009+336			200953568	333727730	*	*	*	*	*	*	*	*	.5	87144
2010+335			201002563	333111960	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2015+378	PCygn	S	201556530	375235500	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
2016+112			201655471	111746560	Porcas	MPIfR	86-22		18	gl	LSBWJ	B	11	86269
2016+28		PR			Gwinn	CfA	85-31G	G47G	92	is	WJ-AKGNFO	2	9	86082
2018+363			201839742	362224420	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2018+363			201839742	362224420	*	*	*	*	*	*	*	*	.5	87144
2020+28		PR			Gwinn	CfA	85-31G	G47G	92	is	WJ-AKGNFO	2	9	86082
2022+374			202203300	372825400	Fey			AH2	18	sur	BL-KGOYIFH	2	.5	87060
2022+374			202203266	372825460	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2022+374			202203266	372825460	*	*	*	*	*	*	*	*	.5	87114
2024+614		Q	202113302	612718130	Barthel	CIT	86-58G	B74G	6	sur	BLSWJKGFIOHY	2	4	87274
2025+372	S 106 1254	S	202533825	371250100	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
2027+383			202702700	382244700	Fey			AH2	18	sur	BL-KGOYIFH	2	.5	87060
2027+383			202702700	382244700	*			*	*	*	*	*	.5	87061
2027+383			202702710	382244720	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2030+404	MWC 349	S	203056800	402920900	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
2030+407	Cygn-X3	SS	203037600	404713000	Spencer	NRAL	aho		6	fo	LSBWJ	2/B	5	85283
2030+407	*	*	203037600	404713000	*	*	*		*	*	*	*	8	85288
2030+407	*	*	203037600	404713000	*	*	*		*	*	*	*	8	85292
2030+411	Cygn OB2 N.5	S	203034830	410803900	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
2031+398			203113900	395007000	Fey			AH2	18	sur	BL-KGOYIFH	2	.5	87060
2031+398			203113900	395007000	*			*	*	*	*	*	.5	87061
2031+398			203113913	395007190	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2031+398			203113913	395007190	*	*	*	*	*	*	*	*	.5	87144
2031+410	Cygn OB2 N.9	S	203122950	410450500	Felli	OAA	85-06		6	se	LSBWJ	A	.2	85137
2033+187			203318480	184634000	Mantovani	IRA	S3		18	aho	SBWJ	2	1	85097
2033+187			203318480	184634000	Mantovani	IRA	85-72G	M73G	18	lfv	SLBWJ-KGFO	2	10	86073
2033+406			203327800	403918600	Fey			AH2	18	sur	BL-KGOYIFH	2	2	87060
2033+406			203327800	403918600	*			*	*	*	*	*	.5	87061
2033+406			203327842	403918580	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2033+406			203327842	403918580	*	*	*	*	*	*	*	*	.5	87144
2033+599	NGC6946	G	203349100	595849000	Hooimeyer	Leiden	85-08G	H17	6	cs	LSBGOY27	A	.7	85147
2037+422	DR21(OH)	M	203714700	421209000	Baudry	Bdeaux	86-44		6	mo	LSBWJ-G	2/SL	3	86330
2050+364			205054400	362412300	Fey			AH2	18	sur	BL-KGOYIFH	2	.5	87060
2050+364			205054400	362412300	*			*	*	*	*	*	.5	87061
2050+364			205054433	362412300	Fey	Iowa	87-34G	F13G	6	ab	BL-KGOYIFH	2	.5	87143
2134+004			213405208	002825080	Zensus	CIT		AH1	2.8		BL-KGFOH	2	8	87054
2134+004		Q	213405200	002825800	Campbell	GeoIns	86-74		6		BWLSJ	E	1	87154
2134+004		Q	213405200	002825800	Pauliny-T.	MPIfR	87-06G	P80G	2.8	sm	BLKGFOHX	2	10	87265
2134+004		Q	213405200	002825800	Campbell	GeoIns	86-74		6		BLSWJ	E	1	87276
2145+067	4C06.69	Q	214536076	064340900	Cohen	CIT	86-21G	C43G	6	v	LSBWJ	2	3	86157

2145+067	*	*	214536076	064340900	*	*	*	*	*	*	*	EKNGIFOHYA	*	3	86157
2145+067	*	*	214536076	064340900	*	*	*	*	*	*	*	LSBWJ	2	1	86163
2145+067	*	*	214536076	064340900	*	*	*	*	*	*	*	EKNGIFOHYA	2	1	86163
2200+420	BLLac VRG22201	BL	220039400	420208300	Mutel	Iowa		M56M	2.8			B-KGFOH	2	15	85221
2200+420	BLLac VRG22201	BL	220039400	420208300	Mutel	Iowa		M63M	2.8			L-KGFOH	2	16	85342
2200+420	BLLac VRG22201	BL	220039400	420208600	Mutel	Iowa		M63M	2.8			BL-KGO	2	9	87053
2200+420	BLLac VRG22201	BL	220039400	420208300	Roberts	MA	87-12G	R41G	6		spv	BWLKGFOHY27	C/PL	1	87151
2200+420	BLLac VRG22201	BL	220039400	420208300	Campbell	GeoIns	86-74		6			BWLSJ	E	1	87154
2200+420	BLLac VRG22201	BL	220039400	420208600	Mutel	Iowa		M63M	2.8			BLKGFOH	2	8	87263
2200+420	BLLac VRG22201	BL	220039400	420208300	Campbell	GeoIns	86-74		6			BLSWJ	E	1	87276
2201+315		G	220101400	313106000	Giovannini	IRA	84-52		6		rn	LSBWJ	B	.3	85290
2206+457	AR Lac	BS	220639525	452945030	Felli	OAA	85-61G	F10G	6			LSBWJ-KG	B	1	86163
2206+457	AR Lac	BS	220639500	452945000	Lestrade	JPL	87-09G	L49G	6		bm	BL-GOY	A/PL	10	87145
2209+080	4C08.54	Q	220932400	080425000	Hooimeyer	Leiden	86-12G	H25G	6		cs	LSBW-KGOY27	2	2	86152
2217+596	OH104.9+2.4	M	221742400	593616800	Diamond	MPIfR	85-70		18		eo	SLBWJ	2/SL	12	86075
2217+596	OH104.9+2.4	M	221742400	593616800	Diamond	MPIfR	86-01G	D12G	18		pm	LSBWJ	2/SL	3	86273
2217+596	*	*	221742400	593616800	*	*	85-70		*		eo	*	*	7	86274
2223-052	3C446.0 4C05.92	Q	222311089	-051217900	Cohen	CIT	87-10G	C46G	6		pfs	BWJSLKNGIOHY	2	1	87143
2223-052	*	*	222311089	-051217900	*	*	*	*	*		*	*	*	1	87148
2230+114	4C11.69 CTA102	Q	223007814	112822720	Cohen	CIT	87-10G	C46G	6		pfs	BWJSLKNGIOHY	2	1	87143
2230+114	*	*	223007814	112822720	*	*	*	*	*	*	*	*	*	1	87147
2243+394	3C452 4C39.71	G	224332800	392528000	Giovannini	IRA	84-52		6		rn	LSBWJ	B	.7	85289
2247+140	4C14.82	Q	224756710	140357450	Gower	Victor.	86-66		6		sm	BWJSLZ	2	12	87150
2249+185	3C454 4C18.67	Q	224907740	183241250	Fanti	IRA	85-65		18		css	SLBWJ	2	10	86072
2249+185	*	*	224907740	183241250	*	*	*		*	*	*	*	*	12	87059
2251+134	4C13.35	Q	225151879	132548730	Schilizzi	NFRA	85-04G	S52	6		cs	BLSWJGOY27	2	10	85284
2251+134	*	*	225151879	132548730	*	*	*	*	*	*	*	*	*	2	85290
2251+134	4C13.35	Q	225151700	132548000	Hooimeyer	Leiden	86-12G	H25G	6		cs	LSBW-KGOY27	2	2	86152
2251+159	3C454.3 4C15.76	Q	225129520	155254300	Pauliny-T.	MPIfR		P66M	2.8			BL-KGFOH	2	12	35220
2251+159	3C454.3 4C15.76	Q	225129520	155254300	Pauliny-T.	MPIfR	85-52G	P70G	1.3	sm		BSKGNOY	B	9	85277
2251+159	*	*	225129520	155254300	*	*		*	*			*	*	13	85340
2251+159	3C454.3 4C15.76	Q	225129520	155254300	Pauliny-T.	MPIfR		P66M	2.8	sm		B-KGFOH	2	12	86065
2251+159	3C454.3 4C15.76	Q	225129520	155254300	Pauliny-T.	MPIfR	85-29G	P69G	92	sm		RZWJ-KGFO	2	12	86081
2251+159	3C454.3 4C15.76	Q	225129520	155254300	Pauliny-T.	MPIfR	86-52G	P66G	6	mon		LSBWJ-KGFOH	2	14	86328
2251+159	*	*	225129520	155254300	*	*	*	*	2.8	mon		BL-KOGFH	2	9	87052
2251+159	*	*	225129520	155254310	*	*	*	*	*	*	*	*	*	10	87266
2251+244	4C24.61	Q	225144400	242924200	Inoue	NRO	86-63		18	sm		SLBWJ	2	12	87057
2310+024	SZ Psc	BS	231051000	022411000	Felli	OAA	85-61G	F10G	6			LSBWJ-KG	B	1	86163
2322-124		G	232243700	-122356000	Hooimeyer	Leiden	85-08G	H17	6		cs	LSBGOY27	A	.2	85147
2325+085	NGC7674	G	232524400	083012700	Pedlar	NRAL	84-63		18	cs		SBWJ	B	2	85103
2329+196	UV Cet	S	232921000	193943000	Guedel	Zurigo			18	fs			2	2	87063
2342+821		CF	234204900	820952000	Mutel	Iowa	85-63G	M75G	18	cs		SLBWJ	2	8	86075
2342+821		CF	234204900	820952000	*	*	*	*	*	*		KGIFY27OH	2	8	86075
2342+821		*	234204900	820952000	*	*	*	*	6	*		SBWJKGIFOHY27	2	12	86151
2345-167		Q	234527686	-164752590	Cohen	CIT	87-10G	C46G	6		pfs	BWJSLKNGIOHY	2	3	87146
2351+456	4C45.51	G	235149960	453622900	Pearson	CIT		P58	6		sur	BL-KGFOHY	2	4	85286
2351+456	4C45.51	G	235149962	453622900	Barthel	CIT	86-58G	B74G	6		sur	BLSWJKGFIOHY	2	4	87274
2352+495		G	235237793	493326690	Barthel	CIT	86-58G	B74G	6		sur	LSBWJ-KGIFYOH	2	2	86327
2355+510	R Cas	M	235553000	510636000	Lesqueren	Meudon	85-71		18	mo		SBWJ	2	8	86069