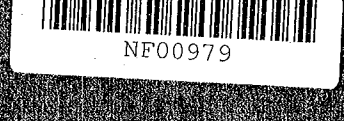

NASA TECHNICAL MEMORANDUM NASA TM-88442

TESTS WITH THREE-DIMENSIONAL ADJUSTMENTS IN THE RECTANGULAR WORKING SECTION OF THE FRENCH T2 WIND TUNNEL, WITH AN AS 07-TYPE SWEPT-BACK WING MODEL

A. Blanchard, M. J. Payry, J. F. Breil

Translation of "Essais 'd'adaptation tridimensionnelle' de la veine rectangulaire de la soufflerie T2, en presence d'une maquette d'aile en fleche du type AS 07," Rapport Technique OA 34/3075 (DERAT 12/5015 DN), O.N.E.R.A., Centre d'Etudes et de Recherches de Toulouse, November 1985, pp. 1-24 (plus figures).

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16. Abstract This report presents the results obtained on the AS 07 wing and the working section walls for three types of configurations. The first, called "non-adapted," corresponds to the divergent upper and lower rectilinear walls which compensate for limit layer thickening. It can serve as a basis for complete flow calculations. The second configuration corresponds to wall shapes determined from calculations which tend to minimize interference at the level of the fuselage. Finally, the third configuration, called "two-dimensional adaptation," uses the standard method for T2 profile tests. This case was tested to determine the influence of wall shape and error magnitude. These results are not sufficient to validate the three-dimensional adaptation; they must be coordinated with calculations or with unlimited atmosphere tests.

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NOTATION

Xp, Yp, Zp — Cartesian coordinates in the reference working section (porthole axis)

X, Y, Z — Cartesian coordinates in the wing reference (leading edge to socket)

C — Profile chord of the wing section considered

α — Angle of the model (fuselage axis)

Mo — Infinite Mach upstream of the flow

M — Local Mach (wing or wall)

$Kp = \dfrac{p - p_o}{\frac{1}{2}\rho_o V_o^2}$ — Pressure coefficient

Cz — Local or complete-wing lift coefficient

$$\begin{cases} C_{z\,local} = \int_{profil} Kp \cdot d\left(\dfrac{x}{C_{local}}\right) \\ C_z = \dfrac{F_z}{\frac{1}{2}\rho_o V_o^2 \cdot S_{aile}} \end{cases}$$

TESTS WITH THREE-DIMENSIONAL ADJUSTMENTS IN THE RECTANGULAR WORKING SECTION OF THE FRENCH T2 WIND TUNNEL, WITH AN AS 07-TYPE SWEPT-BACK WING MODEL

A. Blanchard, M. J. Payry, J. F. Breil

1 - INTRODUCTION /7*

This test series follows a study done in the T2 wind tunnel with the goal of defining a shape for the adaptable walls which would minimize their influence on three-dimensional objects placed in the center of the section or fastened on the side.

The present configuration of the working section does not allow obtaining a shape identical to that of the layer of current existing around a three-dimensional model in unlimited atmosphere (two completely rectilinear and parallel lateral walls, two flexible and bendable upper and lower walls). The planned solution thus consists of using the two bendable walls to minimize the influence of the walls on the model.

The method implemented uses solutions developed by "E. Wedemeyer and L. Lamarche" [5]. A first series of tests was done in cooperation with the University of Berlin on various existing models [6]:

- a C5 revolving body 166 mm long, 0.3% blockage;
- a civil F4 airplane model with 120-mm wingspan and three-component balance;
- a duck-type military airplane model with the same balance.

Another series of tests was then done on a bigger model [7]:

- a C5 body 400 mm long, 1.8% blockage.

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*Numbers in the margin indicate pagination in the foreign text.

The results and calculations were compared.

The calculation method was optimized for revolving bodies placed in the center of the section; an extrapolation was tried which placed a half-wing at the wall. In this case, calculation is done as if the section were twice its actual width, using the Mach distribution at the wall measured near the plane of symmetry.

The results obtained on the "16/1000-scale" AS 07 are discussed in this report. They can be divided into two groups: control tests and systematic tests.

Included in the first group is control of wing angling by rotating the walls. The path of the jacks would not permit the displacements required by calculation for angling the model to $+2^{\circ}$; we thus used this artificial method after having verified its validity.

The three-dimensional adaptation method supplies the optimal shape of the walls from the first calculation, whatever the initial position of the walls; this was verified in /8 several test configurations. Finally, an adaptation called "two-dimensional" was tested; it uses the normal method for T2 profile tests. This case, without theoretical justification, was tried to see the influence of the shape of the walls and the size of errors which can be made.

The second part of this study corresponds to systematic tests: four configurations were chosen which gave different lift coefficients, without making highly supersonic zones appear on the profiles. For each configuration, three wall positions were tested:

- The first, called "unadapted," corresponds to the upper and lower divergent rectilinear walls compensating for

thickening of the limit layers; it served as our basis for beginning three-dimensional adaptation calculations. These particularly simple limit conditions can also be used for complete calculation of the flow in the working section.

- The second wall shape comes from the three-dimensional adaptation calculation; the flexible sheets are positioned before the gust.

- Finally, the last case corresponds to "two-dimensional adaptation"; the iterative process converges on a single gust.

For each type of test, three gusts are necessary to obtain readings from the six rows of pressure recorders spread along the AS 07 wing.

The experimental results gathered during this series are not sufficient to validate the three-dimensional adaptation method used. Additional calculations must be made to estimate residual corrections. In these tests, a negligible influence of the walls is observed for low lift values or low Mach numbers; inversely, for 2 degrees of incidence or for Mach 0.8, the gaps become significant and can in part be interpreted as variations in aerodynamic incidence.

2 - ADAPTATION PRINCIPLE

The purpose of the adaptable walls is to create an unlimited flow around a model in a working section with finite dimensions; this can be done by controlling the wall conditions, either by their shape in the case of solid walls or by flows of mass through porous walls. The first solution has been chosen at T2, where flexible sheets moved by jacks form the upper and lower plates of the working section [3].

In the case of a three-dimensional body, it is necessary to bend the walls located around the model to arrive at a shape near the layer of current existing around the model in unlimited atmosphere. This solution is not at present possible at T2, but on the other hand it is possible to use the two flexible /9 walls to minimize residual corrections due to the influence of the walls on the object.

2.1 Two-dimensional adaptation

The details of the process will be found in [2] and [4]; it uses a coupling between the real flow in the working section (internal field) and a calculated virtual flow outside the wind tunnel (external field). Coupling occurs on a control surface near the walls through speed vector components. Adaptation is achieved by an iterative process acting on the shape of the walls: the components of the speed on the control surface become available at each iteration; they are extrapolated from the pressure measurements at the wall. The velocities needed on the control surface to achieve an unlimited external flow are calculated by the Green function following an inverse method. A method of optimized relaxation between the internal and external flows for the vertical velocity component, followed by an integration along each flexible wall, supplies the new shape of the wall. The real shape needed is obtained by adding the thickness displacement of the four wall limit layers.

2.2 Three-dimensional adaptation

For three-dimensional adaptation, the process is different [5]: it uses schematization of the model through distribution of sources and vortices in a narrow horseshoe placed on the section axis. This schematization gives a good representation of axisymmetrical bodies mounted in the middle of the working section.

The originality of the method lies in then doing a linear transformation, which permits passing directly from distribution of velocities at the walls to the adapted form without needing to determine the intensity of singularities. The optimized shape of the walls is thus theoretically obtained from the first calculation; this shape, which is not exactly "adapted," minimizes residual corrections on the model caused by the influence of the walls.

Using this method for a half-wing at the wall is abusive, because the base schematization does not represent a wingspan; it has nonetheless been tried here by replacing the lateral door by a plane of symmetry leading to a fictional double section width, and taking the Mach distribution of the flexible walls near the plane of symmetry as reference.

3 - EXPERIMENTAL EQUIPMENT

The T2 transonic wind tunnel is pressurizable and can function at low temperatures; only minimum-pressure and ambient-temperature tests were done during this series.

3.1 Working section equipment /10

The working section has an almost square section of 0.39 x 0.37 mm^2 at the entrance. Flexible sheets of Invar make up the upper and lower walls, equipped with three rows of pressure recorders whose coordinates are given in figures 7 and 8. The sheet-positioning mechanism is described in [2], [3], and [4].

The left lateral door has three portholes with pressure recorders placed along horizontal and vertical lines whose coordinates are shown in figures 7 and 9.

The pressure recorders are linked to the Scanivalves, each of whose head can observe 48 positions in 5 seconds.

The position of the wing in the working section is given in figure 6.

The Mach number of the flow is set by a second neck controlled by the computer which controls the gust.

No other equipment or wind tunnel measurement method was used.

3.2 Mounting the wing

The AS 07 wing model with a scale of "16/1000" is shown by the photographs in figure 5. The method of mounting the wing on the wall is shown (figure 6), the plane of the wing and its specifications are given (figures 10 and 11), and the shape of the profiles which compose it and the positions of the pressure recorders are indicated (figures 12 and 13).

There are six rows, each with 16 recorders on the inner and outer sections and one on the leading edge; they are placed across the wingspan so as to form lines with constant chord percentages. These recorders communicate with tubes placed in grooves along the wingspan; each tube communicates with three recorders (either on the external wing or on the internal wing). When one of the three rows of recorders is used to measure pressure, the other two are covered with thin (0.05-mm) adhesive strips. It is thus possible to simultaneously measure pressure on two sections of the wing (one internal and one external); measurement of velocities over the entire wing thus requires three different gusts.

The wing is mounted on a half-fuselage linked to a porthole, whose rotation ensures the angling of the wing-

fuselage assembly; the angular reference is the rectilinear part on the back of the fuselage [1].

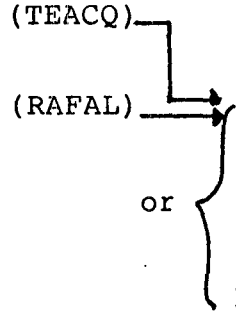
3.3 Acquisition and examination program

The T2 wind tunnel is linked to a team of two computers, one concerned with creating and regulating the gust and the other with obtaining data and storing measurements to disk at the end of the gust.

These tests are pursuant to the series done on the /11 C5 body and use its principal elements.

Disk cartridge — LU 26, Program
LU 34, Test files, calculation files

Acquisition program



(lance ACQC5) — Fixed walls: No adaptation during gust

(uses PROJ and ADAP.) — Two-dimensional adaptation

Initialization of programs { with (TR,) RINC 5 (For PARC 5)
or (TR,) RINC S (For PARC S)

Test file

AD --- test number — from AD 100 to AD 173

Wall positioning file

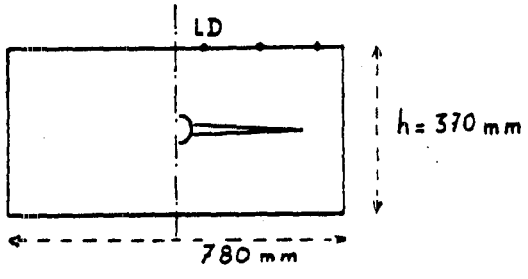
- any test file — AD---
- or calculation file — AD 9 ---
- or special file
  - AD 4: Divergent rectilinear walls of symmetrical limit layers.
  - AD 444: AD 4 + 10' rotation upward
  - AD 445: AD 4 + 30' rotation upward

Three-dimensional adaptation calculation

Calculation from a test file AD ---

VKJ 43 Calculation of wall shapes without rotation

VKI M Calculation of wall shapes with rotation



- section length 780 mm
- ratio c = h/b = 2.1081
- reference recorders: right lateral RL
- weighting coefficients file VKJ - R (cartridge LU 43)

⟶ Filing to disk

File for new calculated wall shapes

AD 9 --- beginning test number for the calculation

Programs for examination of AD--- files

LTCS:

- graphs local profile Mach numbers
- graphs Kp
- lists AD file
- calculates Cz

LTC 51:

- graphs wall Mach numbers
- graphs wall shapes

  starts LTC 52 (does an RP, LTC 52)

LTC VK:

- graphs only wall shapes calculated by VKI 43 or VKIM (from AD 9---).

4 - SUMMARY OF TESTS PERFORMED

A previous study was done on the AS 07 wing [1]. We verified in one case that the same results would occur, although the working section was modified when the T2 wind tunnel was adapted for cryogenics.

The first control tests were done by measuring rows 2 and 5 of pressure recorders for the Mach numbers and incidences indicated below:

α \ M_o	0,6	0,7	0,8
+2°	X	X	X
0	X	X	X
-2°	X	X	

Four configurations were selected for systematic tests: /13

α \ M_o	0,6	0,7	0,8
+2°	X		
0°	X		X
-2°	X		

They correspond to a sampling of lift coefficients and to an infinite Mach effect upstream, while limiting the supersonic zones which appear on the profiles.

Figure 1 shows the list of tests in chronological order, and figures 2, 3, and 4 classify them by configuration.

We first showed that rotation of the upper and lower walls was equivalent to angling the model at the same angle. This artifice was made necessary because the path of the jacks did not permit the displacements required by calculation of three-dimensional adaptation for a model incidence of +2°.

- Divergent rectilinear walls

α demand.	α Display	Wall Staat	M_o 0,6	M_o 0,8
+2°	+2°	AD 4	AD 120	
	+1,5°	AD 445	AD 122	
0°	0°	AD 4	AD 107 - AD 109	AD 108 - AD 132
	-0,5°	AD 445	AD 137	AD 139

- Three-dimensional adapted walls /14

$\alpha_{aérod.} = 0°$

α CALCUL	Mo 0,6	Mo 0,8
0° VKI 43	117	AD 119
-0,5° VKI M	138	AD 141

The three-dimensional adaptation method theoretically supplies the optimal shape of the walls from the first calculation, whatever the initial position of the flexible sheets. Controls were done in this respect for the following configurations:

α display	M_o 0,7	M_o 0,8
+1,5°		AD 127 (1) AD 128 (2) AD 129 (3)
0°	AD 115 (1) AD 116 (2)	AD 118 (1) AD 119 (2)
-0,5°		AD 140 (1) AD 141 (2)

The figure in parentheses after the file number indicates the order of the iteration; the wall-positioning file thus results from calculation of the preceding test. (Iteration (0) is the test done with rectilinear walls.)

We also verified that the tests called "two-dimensional adaptation" converged rapidly, as is the case for the profile tests; it is sufficient for that to compare the wall position of

the 3rd and 4th iterations done during the same gust; the two positions are always close. In general, the beginning shape chosen is near the adapted shape, but we have tested this convergence in the two particular cases when the beginning shape was far from the adapted shape. The beginning file chosen was AD 4: rectilinear walls divergent from limit layers and symmetrical.

/15

Configuration: Mo = 0.7 α = +1.5° File AD 130 (1)
Configuration: Mo = 0.8 α = 0° File AD 133 (1)
followed by File AD 134 (2)

Comparisons were made between the various wall positions; they are noted:

- "Non," for divergent rectilinear walls
- "2D," for two-dimensional adaptation done with the PARCS program
- "3d," for positioning of the walls in the shape calculated by the VKI 43 or VKI M program

It was decided to do systematic tests for the three cases of "adaptation," the non-adapted case serving as a basis for three-dimensional calculation (any wall shape will work); this case can also serve as a basis for complete flow calculations, because here the limit conditions are particularly simple. The two-dimensional adaptation, a priori outside the subject of the study, was systematically tested to use as a comparison with the assumed optimal shape.

Finally, four configurations for three cases of adaptation, reproduced three times to have the velocity field on all of the wing, were tested; these 36 gusts make up the systematic tests listed in figure 26a.

5 - CONTROL TESTS

We will not present all the tests done, but only a selection of cases judged most interesting, since the goal of this series is not to evaluate the AS 07 wing.

5.1 Angling by wall rotation

Of the five configurations tested (paragraph 4), three are presented. The first corresponds to Mo = 0.6 and $\alpha = +2^\circ$ for rectilinear walls (figure 14); this is the configuration which obliged us to use this artifice, as the three-dimensional case could not be tested.

Figure 15 shows the comparison of Mach numbers on the walls and on the wing, for an aerodynamic incidence equal to 0° and a Mach number equal to 0.8, in the case of rectilinear walls. Figure 16 presents the same configurations but for wall shapes coming respectively from calculations VKI 43 and VKI M.

The results of figures 14 and 15 show that the high Mach case is the most recordable, but the correspondence of the tests remains good. Figure 16 shows that the VKI M calculation makes perfect allowance for total rotation.

It is thus possible to display a model incidence /16 different from that desired and to compensate by rotating the walls.

5.2 Convergences of iterations

5.2.1 Three-dimensional adaptation

Several calculations for optimization of wall shape were connected for one configuration. The last test is always recalculated, leading to a wall shape which by definition

will not be used, but which will in fact constitute an additional iteration.

Of the four tested cases, two are presented in figures 17 and 18; the first (Mo = 0.7 and = 0°) shows that the adapted shape is practically obtained from the first iteration; in the second case--much more difficult (Mo = 0.8 and α = +2°)--it is necessary to wait for the second calculation. This second case corresponds to a freely supersonic regime of the wing which will not be studied systematically herein.

5.2.2 Two-dimensional adaptation

In all tests done, the 3rd iteration is always identical to the 4th and last iteration of the gust, even when the upper and lower walls have been prepositioned in a shape very different from the "adapted" shape. This is the case shown in figure 19 corresponding to Mo = 0.8 and α = 0°.

To confirm the validity of this statement, a second test was done, positioning the flexible sheets on the preceding shape; the values obtained can thus be considered to correspond to the 4th, 5th, 6th, and 7th iterations of the test; they are all identical (figure 20), which confirms that the convergence was well obtained.

5.3 Non/2-D/3-D comparison

Two cases are presented here, one of which is not part of the systematic tests:

- Mo = 0.7 α = 0°
- Mo = 0.8 α = 0°

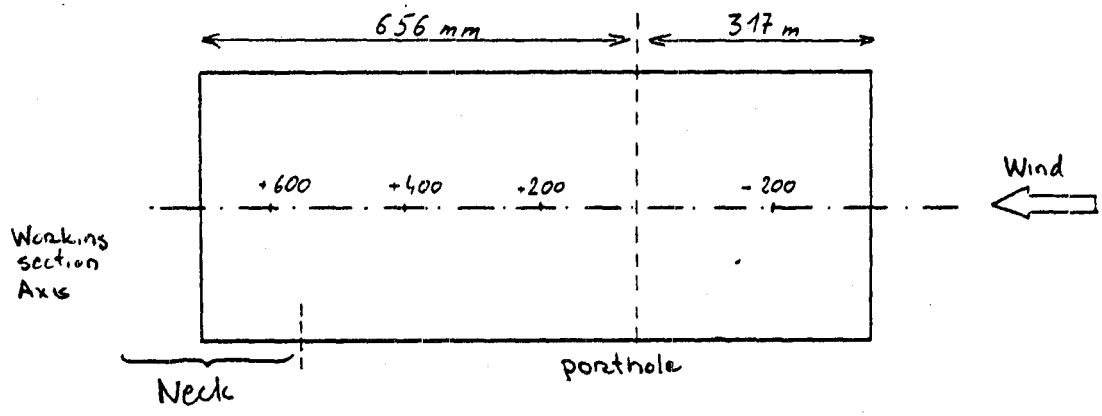
The gaps observed following the types of "adaptation" will become more significant as lift and Mach number upstream increase. The adaptation called "two-dimensional" gives results nearer to the non-adapted case; in fact, everything happens as if the aerodynamic incidence of the two-dimensional case were higher than that of the tests with a wall shape adapted in three dimensions. On the other hand, rectilinear walls lead to a higher effective Mach number upstream (blockage effect).

In the first case (figure 21), the gaps are moderate; they are more significant in the second case (figure 22). Observation of the direction of the walls leaving the convergent (figure 21) shows that effectively the direction of the flow upstream is no longer horizontal in the "2-D" case, unlike the "3-D" case; the angular reference was given by the "non-adapted" case. The effect produced is incontestable, because we /17 previously demonstrated that rotation of the wall assembly modified the aerodynamic incidence of the model; however, this is not sufficient to prove that the 2-D case is erroneous, because the direction of the current lines in unlimited atmosphere is not known. We note also the very different shapes of the walls downstream; they go downward for the "3-D" cases, which is logical allowing for the chosen schematization (horseshoe vortex) and the calculation made (in the plane of symmetry). But once more, that does not prove that the shape obtained is optimum.

Finally, one can observe on the last figure (23) that the effect produced by modifying the shape of the walls is not constant across the wingspan. This was predictable due to the working section geometry itself, allowing for twist of the wing and for three-dimensional effects.

5.4 Visualizations

For three configurations, oil visualizations were done on the left door of the working section, giving the direction of the current lines 55.4 mm from the end of the wing. Reference marks were made, making it possible to locate the positions relative to the current lines and to measure their deviations.



The end of the wing is located between the abscissas 91.06 mm and 135.86 mm from the porthole (figure 6) and very near to the section axis (function of the incidence).

The maximum deviations noticed are located on the section axis slightly behind the tip of the wing (figures 24, 25, and 26).

Mo	α	Walls	δ max	
0,6	+2°	"Non-adapted" AD 4	(5°.....6°)	Figure 24
0,6	+2°	Adapted 2-D	(5°.....6°)	Figure 25
0,6	-2°	"Non-adapted" AD 4	~ 0,5°	Figure 26

The photos taken from behind clearly show the deviations of the current lines. /18

6 - SYSTEMATIC TESTS

For the 36 gusts that made up the systematic tests (paragraph 4 and figure 26a), the following information is given: wall shape (figures 27 and 28), Mach numbers of the three rows of recorders on the adaptable walls (figures 29, 30, 31, and 32), Mach numbers of the left lateral door (figures 33, 34, 35, and 36) following the horizontal axis or the three verticals, and finally spread of Kp on the AS 07 wing (figures 37 to 44).

Numerical values for these curves are given in the attached test listings. File numbers corresponding in chronological order to the experiments were kept in the interests of clarity.

Here will be found a systematic comparison of the three cases of adaptation--"Non/2-D/3-D"--and their influence on the speed distributions whose principal characteristics were seen in paragraph 5.3.

Finally, integration of Kp for each section supplies local lift coefficient Cz. The values are tabulated in figure 45; they were traced along the wingspan of the various configurations tested (figures 46 and 47). It is observed that the internal wing changes less rapidly than the external wing with incidence (figure 46) or Mach number upstream (figure 47).

On the other hand, the gap between the "non-adapted" and "adapted 3-D" cases increases with the lift.

Local Cz were multiplied by the chord of the profile in the section considered; the product Cz · C represents local /19
contribution to wing lift. The values obtained were traced in this representation (figures 48 and 49); this weighting modifies the appearance of the curves ("elliptic" distribution plane), but the observed tendencies are the same.

Finally, integration of the curves in this last representation supplies the overall lift coefficient of the wing, which was reported as a function of incidence (figure 50). We have also reported the lift measured during the preceding series [1], done between rectilinear walls for a Mach number upstream of 0.47. The effect of compressibility is felt more as supersonic zones develop on the wing.

7 - CONCLUSION

This series of tests on the AS 07 wing is registered as a study on three-dimensional adaptation of the T2 wind tunnel. It uses the two flexible walls to minimize residual corrections in the presence of a three-dimensional model. It implements the "E. Wedemeyer and L. Lamarche" method where schematization of the model by a distribution of singularities adequately represents an axisymmetrical body. Extrapolation of these methods in the case of a half-wing at the wall has no ultimate goal; it serves merely as a preliminary phase, to observe the influence of wall shape in various sections of the wing, to study the convergence of the method, and to make adjustments (rotation of walls, incidence, etc.).

On the other hand, these experiments can serve as a basis for calculating potential three-dimensional flow around the model. Then, a three-dimensional object placed in the section

could be more elaborately schematicized; it would lead to development, as for axisymmetrical bodies, of a method of adaptation minimizing the influence of the walls on the model.

At present, it is difficult to know if the shape called "adapted 3-D" is nearer to the values of unlimited atmosphere than the shape "adapted 2-D," but it is definitely not the optimum shape.

The tests will next be completed by directional limit layer readings on the lateral wall at the level of the end of the wing. The direction of the current lines in this area will be an important element in the reality-calculation comparison.

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LIST OF FIGURES

- (α = 0° Mo = 0.6) - Non
  - 2-D
  - 3-D — 30

- (α = +2° Mo = 0.6) - Non
  - 2-D
  - 3-D — 31

- (α = 0° Mo = 0.8) - Non
  - 2-D
  - 3-D — 32

5.3 Lateral wall Mach

- (α = -2° Mo = 0.6) - Non
  - 2-D
  - 3-D — 33

- (α = 0° Mo = 0.6) - Non
  - 2-D
  - 3-D — 34

- (α = +2° Mo = 0.6) - Non
  - 2-D
  - 3-D — 35

- (α = 0° Mo = 0.8) - Non
  - 2-D
  - 3-D — 36

5.4 Kp

- (α = -2° Mo = 0.6) Non adaptable — 37

- (α = -2° Mo = 0.6) - Non
  - 2-D
  - 3-D — 38

- (α = 0° Mo = 0.6) Non adaptable — 39

- (α = 0° Mo = 0.6) - Non
  - 2-D
  - 3-D — 40

- (α = +2° Mo = 0.6) Non adaptable — 41

- (α = +2° Mo = 0.6) - Non
  - 2-D
  - 3-D — 42

- (α = 0° Mo = 0.8) Non adaptable — 43

TEST TABLES

FIGURES 1 TO 4

List of "AS 07 wing" tests

File AD4 : Divergent ~~rectilinear~~ walls
AD445 : Idem + 30° rotation (upward)
AD--- : Test file No. ---
AD9---- : 3-D calculation of new wall position

A File

B Rows of Recorders

C Starting File

D Wall Rot.

E No. of iter.

A FICHIER	INC. AFF.	MACH	B RANGEES DE PRISES	C FICHIER DE DEPART	D ROT. PAROIS	ADAPT.	E NB. D'ITER.
AD105	0	.7	2 - 5	AD4	0	NON	1
AD107	0	.6	"	"	0	"	1
AD108	0	.8	"	"	0	"	1
AD110	-2	.7	"	"	0	"	1
AD115	0	.7	"	AD9105	0	3-D (1)	1
AD116	0	.7	"	AD9115	0	3-D (2)	1
AD117	0	.6	"	AD9107	0	3-D	1
AD118	0	.8	"	AD9108	0	3-D (1)	1
AD119	0	.8	"	AD9118	0	3-D (2)	1
AD120	+2	.6	"	AD4	0	NON	1
AD122	+1.5	.6	"	AD445	30'	NON	1
AD123	+1.5	.6	"	AD9122	30'	3-D	1
AD124	+1.5	.7	"	AD445	30'	NON	1
AD125	+1.5	.7	"	AD9124	30'	3-D	1
AD126	+1.5	.8	"	AD445	30'	NON	1
AD127	+1.5	.8	"	AD9126	30'	3-D (1)	1
AD128	+1.5	.8	"	AD9127	30'	3-D (2)	1
AD129	+1.5	.8	"	AD9128	30'	3-D (3)	1
AD130	+1.5	.7	"	AD4	0	2-D	4
AD131	+1.5	.6	"	AD130	0	2-D	4
AD133	0	.8	"	AD4	0	2-D	4
AD134	0	.8	"	AD133	0	2-D	4
AD135	0	.7	"	AD134	0	2-D	4
AD136	0	.6	"	AD135	0	2-D	4
AD137	-0.5	.6	"	AD445	30'	NON	1
AD138	-0.5	.6	"	AD9137	30'	3-D	1
AD139	-0.5	.8	"	AD445	30'	NON	1
AD140	-0.5	.8	"	AD9139	30'	3-D (1)	1
AD141	-0.5	.8	"	AD9140	30'	3-D (2)	1
AD142	-2	.6	"	AD4	0	NON	1
AD143	-2	.6	"	AD9142	0	3-D	1
AD144	-2	.6	"	AD136	0	2-D	4
AD145	+2	.6	"	AD131	0	2-D	4
AD146	+2	.6	1 - 4	AD145	0	2-D	4
AD147	+1.5	.6	"	AD445	30'	NON	1
AD148	+1.5	.6	"	AD9122	30'	3-D	1
AD149	0	.6	"	AD136	0	2-D	4
AD150	0	.6	"	AD4	0	NON	1
AD151	0	.6	"	AD9107	0	3-D	1
AD152	0	.8	"	AD134	0	2-D	4
AD153	0	.8	"	AD4	0	NON	1
AD154	0	.8	"	AD9118	0	3-D	1
AD155	-2	.6	"	AD144	0	2-D	4
AD156	-2	.6	"	AD4	0	NON	1
AD157	-2	.6	"	AD9142	0	3-D	1
AD158	-2	.6	3 - 6	AD144	0	2-D	4
AD159	-2	.6	"	AD4	0	NON	1
AD160	-2	.6	"	AD9142	0	3-D	1
AD161	0	.6	"	AD136	0	2-D	4
AD162	0	.6	"	AD4	0	NON	1
AD163	0	.6	"	AD9107	0	3-D	1
AD164	0	.8	"	AD134	0	2-D	4
AD165	0	.8	"	AD4	0	NON	1
AD166	0	.8	"	AD9118	0	3-D	1
AD167	+1.5	.6	"	AD445	30'	NON	1
AD168	+1.5	.6	"	AD9122	30'	3-D	1
AD169	+2	.6	"	AD145	0	2-D	4

Figure 2

Rows of recorders : 1-4

NON ADAPTE				
Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+1.5	+2	147		
0	0	150		153
-2	-2	156		

ADAPTE 3-D				
Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+1.5	+2	148		
0	0	151		154
-2	-2	157		

ADAPTE 2-D				
Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+2	---	146		
0	---	149		152
-2	---	155		

Affichee = Displayed

Rows of recorders : 2-5

NON ADAPTE

Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+2	+2.17	121		
	+2	120		
+1.5	+2	122	124	126
0	0	107 109	105	108 132
-0.5	0	137		139
-2	-2	142	110	

ADAPTE 3-D

Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+1.5	+2	123	125	127(1) 128(2) 129(3)
0	0	117	115(1) 116(2)	118(1) 119(2)
-0.5	0	138		140(1) 141(2)
-2	-2	143		

ADAPTE 2-D

Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+2	---	145		
+1.5	---	131	130	
0	---	136	135	134
-2	---	144		

Rows of recorders : 3-6

NON ADAPTE				
Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+1.5	+2	167		
0	0	162		165
-2	-2	159		

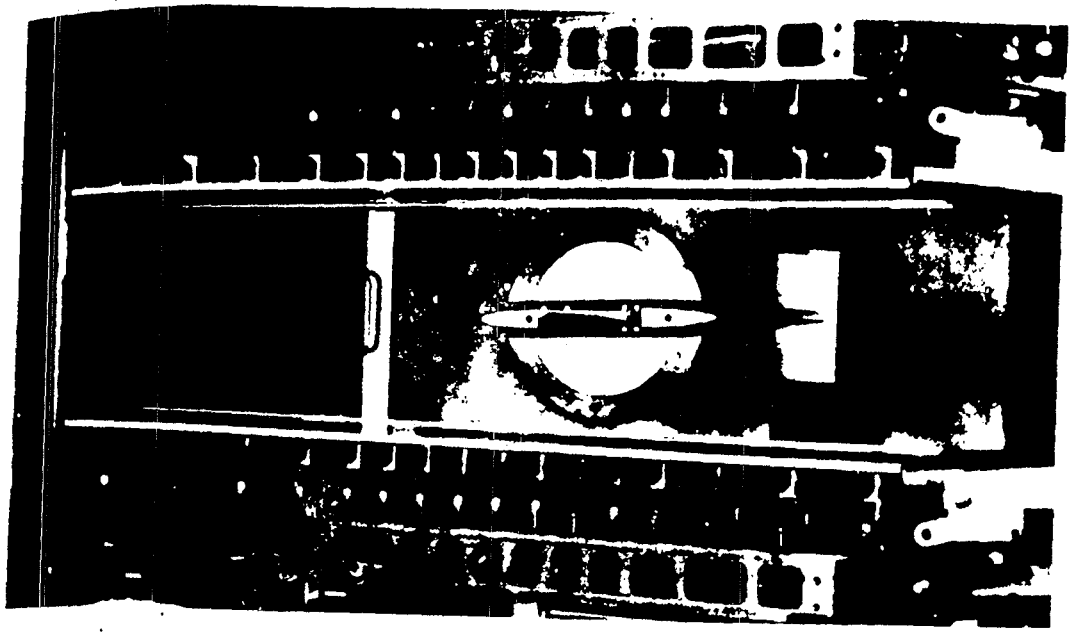
ADAPTE 3-D				
Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+1.5	+2	168		
0	0	163		166
-2	-2	160		

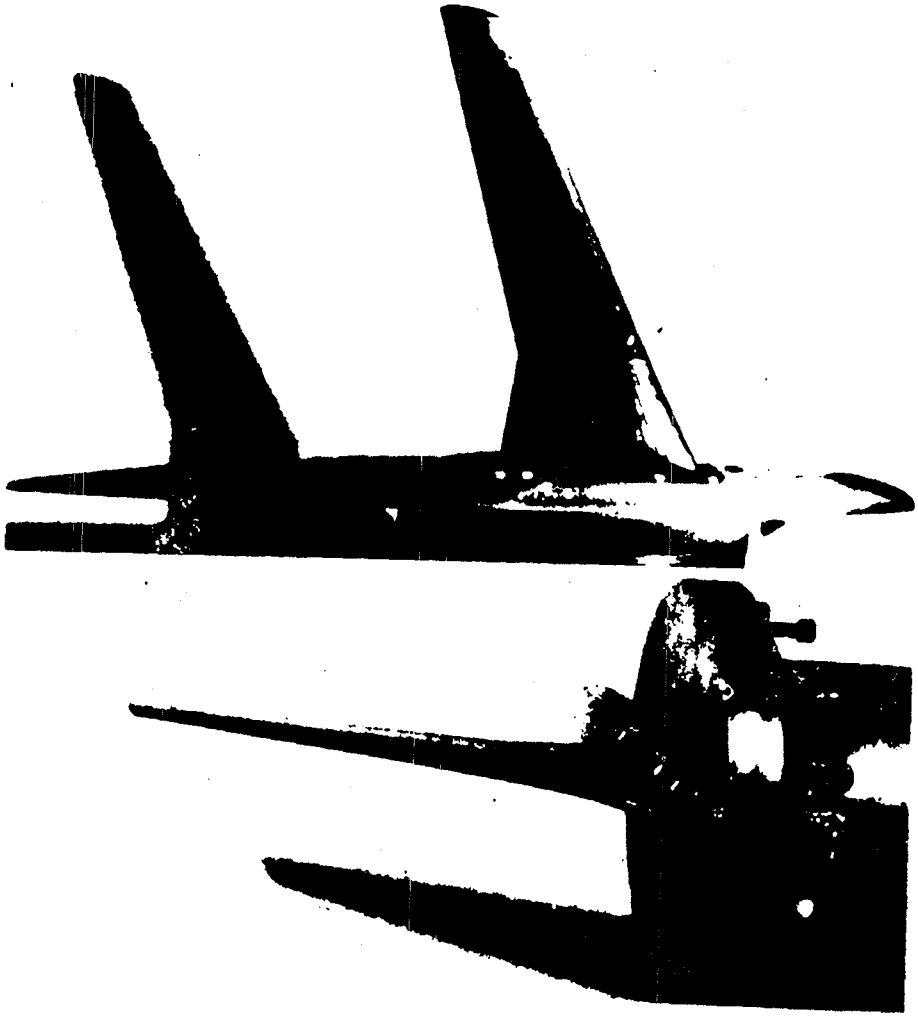
ADAPTE 2-D				
Incidence		Mach		
Affichee	Aerodynamique	0.6	0.7	0.8
+2	---	169		
0	---	161		164
-2	---	158		

Affichee = Displayed

Figure 5

Presentation of mounting





WING MOUNTING

FIGURES 5 TO 13

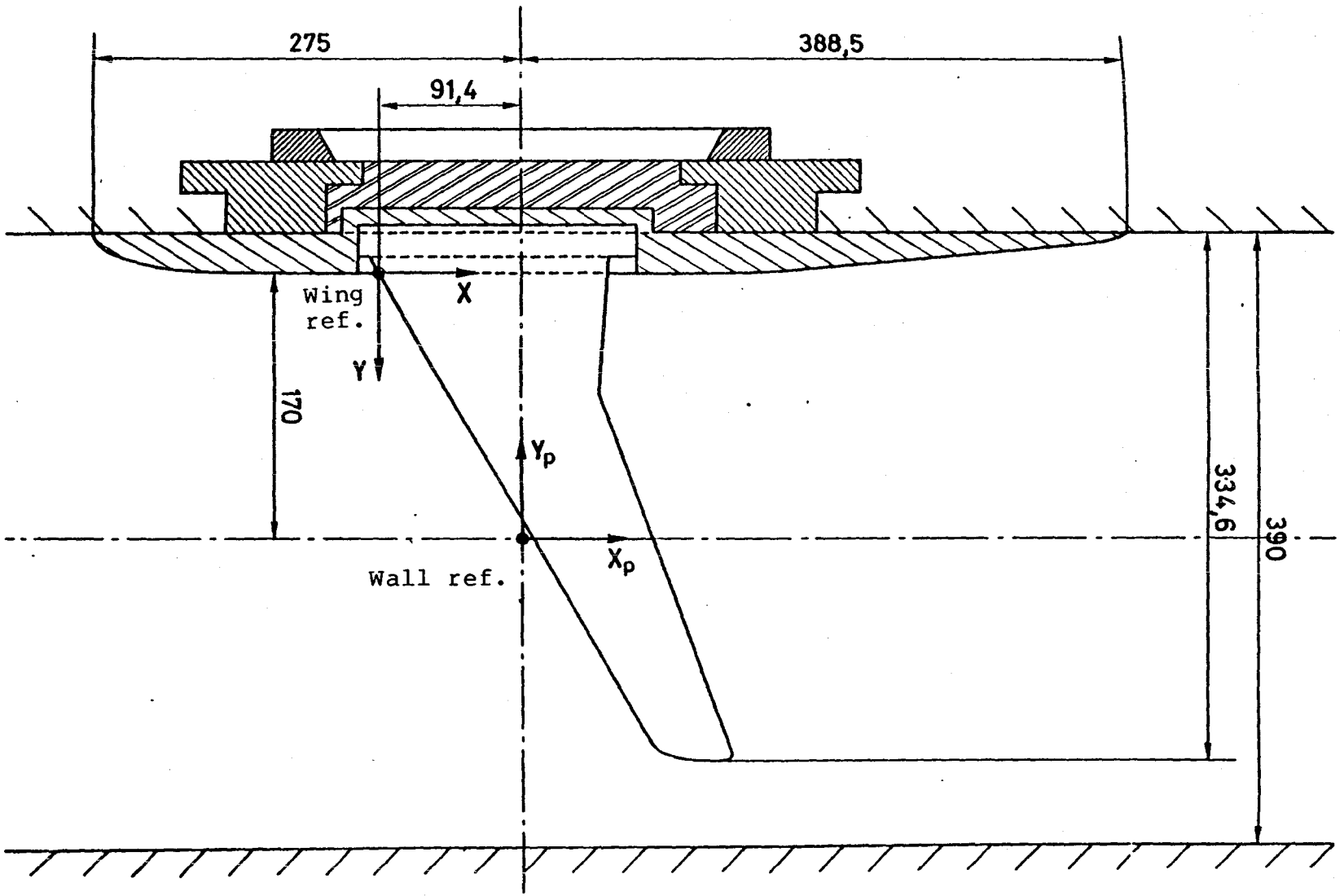


Diagram of wing mounting

Figure 6

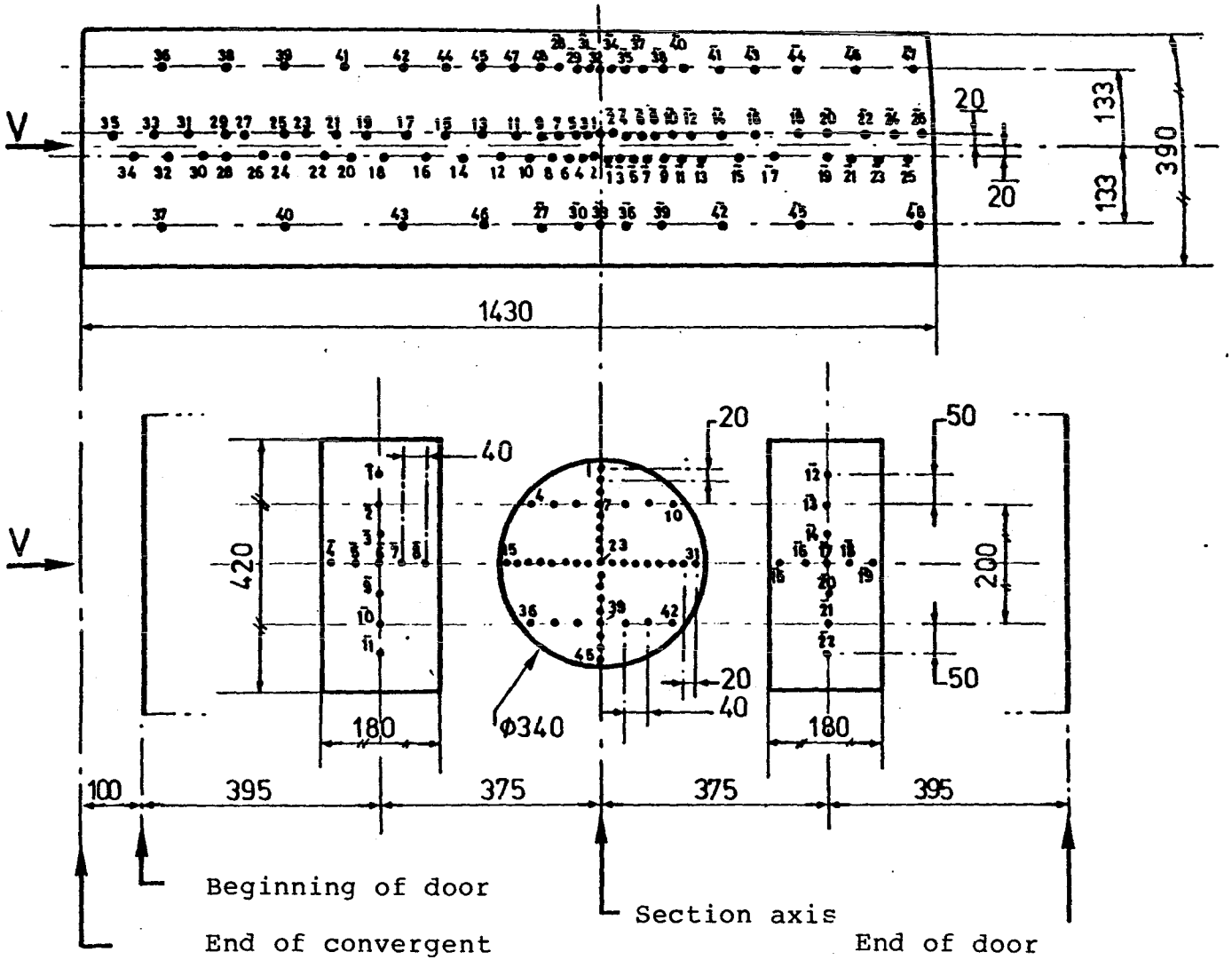


Diagram of wall pressure recorders

Figure 7

Figure 8

Equipment of adaptable cryogenic walls: specs of pressure recorders, jacks, and thermocouples

Wall pressure recorders

I	XPH	XPB	ZP	I	XPH	XPB	ZP
1	-812.5	-812.5	20.0	49	260.0	260.0	20.0
2	-787.5	-787.5	-20.0	50	290.0	290.0	-20.0
3	-747.5	-747.5	20.0	51	330.0	330.0	20.0
4	-722.5	-722.5	-20.0	52	380.0	380.0	-20.0
5	-692.5	-692.5	20.0	53	417.5	417.5	-20.0
6	-667.5	-667.5	-20.0	54	442.5	442.5	20.0
7	-630.0	-630.0	-20.0	55	467.5	467.5	-20.0
8	-592.5	-592.5	20.0	56	492.5	492.5	20.0
9	-567.5	-567.5	-20.0	57	517.5	517.5	-20.0
10	-530.0	-530.0	-20.0	58	542.5	542.5	20.0
11	-492.5	-492.5	20.0	59	-630.0	-630.0	20.0
12	-467.5	-467.5	-20.0	60	-530.0	-530.0	20.0
13	-442.5	-442.5	20.0	61	380.0	380.0	20.0
14	-417.5	-417.5	-20.0	62	-735.0	-735.0	-133.0
15	-392.5	-392.5	20.0	63	-530.0	-530.0	-133.0
16	-367.5	-367.5	-20.0	64	-330.0	-330.0	-133.0
17	-330.0	-330.0	20.0	65	-200.0	-200.0	-133.0
18	-290.0	-290.0	-20.0	66	-100.0	-100.0	-133.0
19	-260.0	-260.0	20.0	67	-40.0	-40.0	-133.0
20	-230.0	-230.0	-20.0	68	0.0	0.0	-133.0
21	-200.0	-200.0	20.0	69	40.0	40.0	-133.0
22	-170.0	-170.0	-20.0	70	100.0	100.0	-133.0
23	-145.0	-145.0	20.0	71	200.0	200.0	-133.0
24	-120.0	-120.0	-20.0	72	330.0	330.0	-133.0
25	-100.0	-100.0	20.0	73	530.0	530.0	-133.0
26	-85.0	-85.0	-20.0	74	-735.0	-735.0	133.0
27	-70.0	-70.0	20.0	75	-630.0	-630.0	133.0
28	-55.0	-55.0	-20.0	76	-530.0	-530.0	133.0
29	-40.0	-40.0	20.0	77	-430.0	-430.0	133.0
30	-30.0	-30.0	-20.0	78	-330.0	-330.0	133.0
31	-20.0	-20.0	20.0	79	-260.0	-260.0	133.0
32	-10.0	-10.0	-20.0	80	-200.0	-200.0	133.0
33	0.0	0.0	20.0	81	-145.0	-145.0	133.0
34	10.0	10.0	-20.0	82	-100.0	-100.0	133.0
35	20.0	20.0	20.0	83	-70.0	-70.0	133.0
36	30.0	30.0	-20.0	84	-40.0	-40.0	133.0
37	43.0	40.0	20.0	85	-20.0	-20.0	133.0
38	55.0	55.0	-20.0	86	0.0	0.0	133.0
39	70.0	70.0	20.0	87	20.0	20.0	133.0
40	78.8	78.8	-20.0	88	40.0	40.0	133.0
41	91.3	91.3	20.0	89	70.0	70.0	133.0
42	100.0	100.0	-20.0	90	100.0	100.0	133.0
43	123.0	120.0	20.0	91	138.8	138.8	133.0
44	138.8	138.8	-20.0	92	200.0	200.0	133.0
45	151.3	151.3	20.0	93	260.0	260.0	133.0
46	170.0	170.0	-20.0	94	330.0	330.0	133.0
47	200.0	200.0	20.0	95	430.0	430.0	133.0
48	230.0	230.0	-20.0	96	530.0	530.0	133.0

Jacks

I	XV
1	-705.0
2	-575.0
3	-460.0
4	-355.0
5	-275.0
6	-215.0
7	-155.0
8	-95.0
9	-35.0
10	25.0
11	85.0
12	145.0
13	205.0
14	285.0
15	390.0
16	505.0

THERM.
******

I	XTH
8	-737.0
7	0.0
9	475.0

I	XTB
6	-737.0
4	-427.0
2	-180.0
1	0.0
3	179.0
5	479.0

XPH-XPB-XV-XTH-XTB IN MM/AXIS PORTHOLE Z in mm/section axis

Pressure recorder specifications - lateral walls (mm)

upstream hole

N	X	Z
1		+150
2	-375	+100
3		+ 50
4	-455	
5	-410	
6	-375	0
7	-335	
8	-295	
9		- 50
10	-375	-100
11		-150

central hole

N	X	Z
1		+160
2	0	+140
3		+120
4	-120	
5	- 80	
6	- 40	
7	0	+100
8	+ 40	
9	+ 80	
10	+120	
11		+ 80
12	0	+ 60
13		+ 40
14		+ 20
15	-160	
16	-140	
17	-120	
18	-100	
19	- 80	
20	- 60	
21	- 40	
22	- 20	
23	0	0
24	+ 20	
25	+ 40	
26	+ 60	
27	+ 80	
28	+100	
29	+120	
30	+140	
31	+160	
32		- 20
33	0	- 40
34		- 60
35		- 80
36	-120	
37	- 80	
38	- 40	
39	0	-100
40	+ 40	
41	+ 80	
42	+120	
43		-120
44	0	-140
45		-160

downstream hole

N	X	Z
1		+150
2	+375	+100
3		+ 50
4	+295	
5	+335	
6	+375	0
7	+415	
8	+455	
9		- 50
10	+375	-100
11		-150

Figure 10

Diagram of the wing

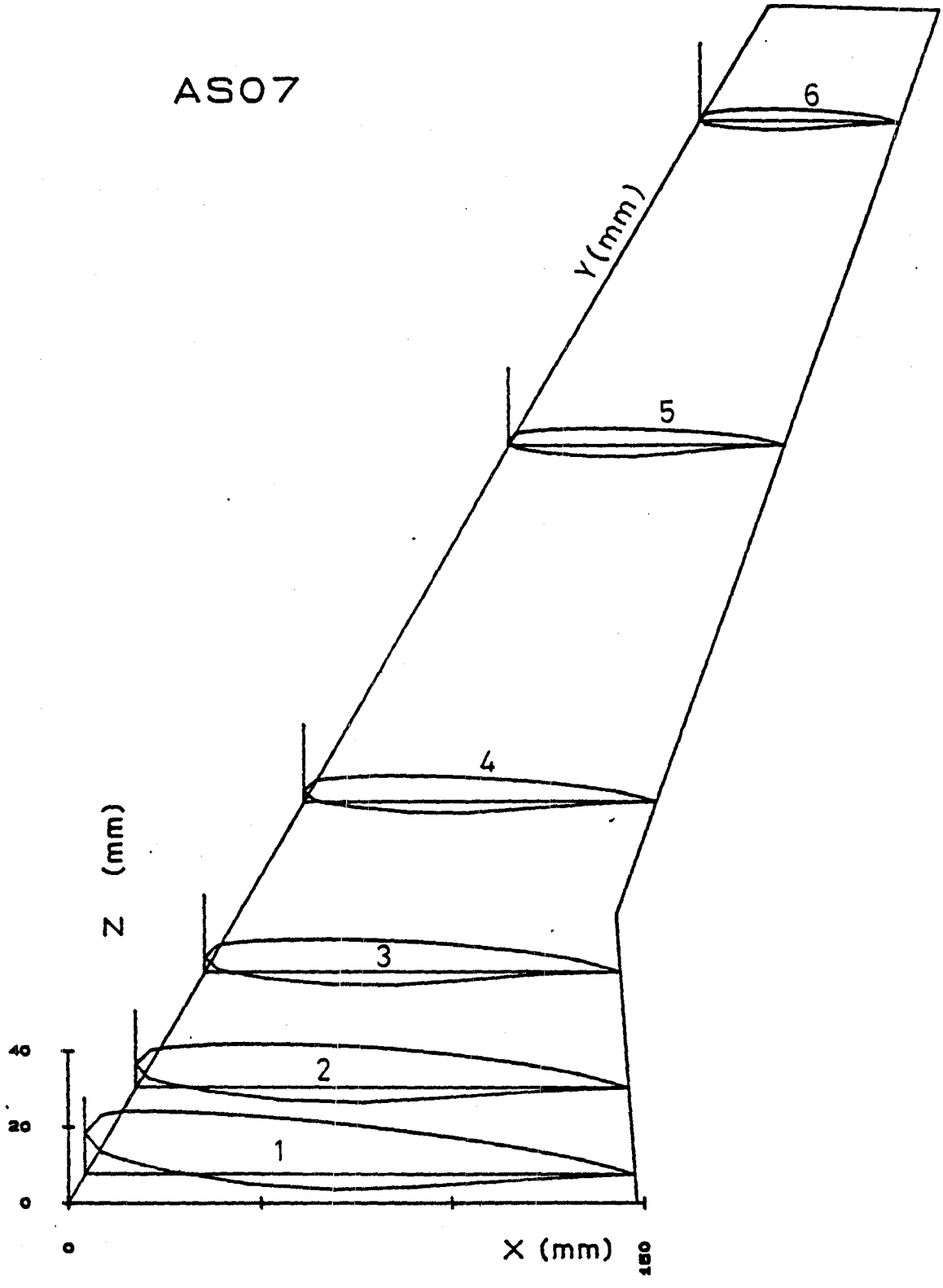


Figure 11

Specifications of the AS 07 wing

		A			
		Y	B.A. X	B.F. X	corde
B	Emplanture	0	0	148,112	148,112
C	rangee 1	7,56	4,46	147,62	143,16
	rangee 2	30,34	17,88	146,12	128,24
	rangee 3	60,40	35,6	144,15	108,55
	rupture	75,227	44,335	143,18	98,845
	rangee 4	104,301	61,47	153,61	92,14
	rangee 5	196,41	115,75	186,66	70,91
	rangee 6	279,87	164,94	216,60	51,66
D	Saumon	309,60	182,464	227,264	44,80

(mm)

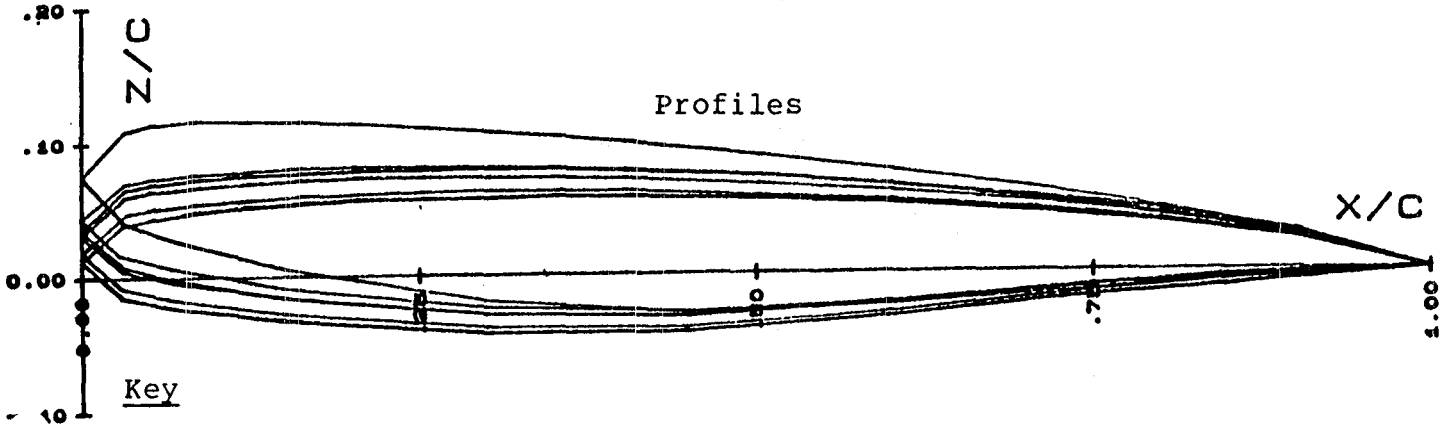
Key

A - chord
B - root
C - row
C - tip

Figure 12

Position of pressure recorders for each section

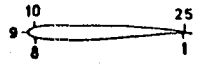
A	B.A.	1 prise	0 %							
B	Extrados	16 prises	3	5	8	12	16	20	25	30 %
			35	40	50	60	70	75	80	90 %
C	Intrados	8 prises	3	7	15	30	45	60	75	85 %



Key

A - B.A. 1 recorder
B - Outer section 16 recorders
C - Inner section 8 recorders

Specifications of pressure recorders on "Airbus" AS07 wing



	A Aile Interne						B Aile Externe					
C	rangee 1 Y = 7.560mm		rangee 2 Y = 30.340mm		rangee 3 Y = 60.400mm		rangee 4 Y =104.301mm		rangee 5 Y =196.410mm		rangee 6 Y =279.870mm	
D	B.A.= 4.295mm		B.A.= 17.715mm		B.A.= 35.498mm		B.A.= 61.392mm		B.A.=115.701mm		B.A.=164.943mm	
E	B.F.=147.620mm		B.F.=146.120mm		B.F.=144.150mm		B.F.=153.610mm		B.F.=186.660mm		B.F.=216.600mm	
F	corde143.160mm		corde128.240mm		corde108.550mm		corde 92.140mm		corde 70.910mm		corde 51.660mm	
	X (mm)	Z (mm)	X (mm)	Z (mm)	X (mm)	Z (mm)	X (mm)	Z (mm)	X (mm)	Z (mm)	X (mm)	Z (mm)
1	125.979	-1.060	126.753	-.812	127.744	-.477	139.796	-.427	176.014	-.529	208.802	-.611
2	111.652	-2.030	113.946	-1.603	116.860	-1.104	130.546	-1.059	168.883	-1.062	203.655	-.940
3	90.225	-3.393	94.643	-3.043	100.686	-2.349	116.608	-2.047	158.182	-2.085	195.877	-1.686
4	68.703	-4.100	75.426	-4.026	84.444	-3.416	102.910	-2.941	147.676	-2.836	188.110	-2.244
5	47.066	-2.670	56.069	-3.411	68.084	-3.155	89.086	-2.683	137.029	-2.739	180.378	-2.234
6	25.741	.833	36.785	-1.156	51.753	-1.680	75.279	-1.404	126.444	-1.933	172.775	-1.685
7	14.624	3.784	26.560	.924	43.091	-.189	67.809	-.344	120.661	-1.160	168.532	-1.158
8	8.751	5.783	21.249	2.395	38.873	.869	64.174	.458	117.768	-.531	166.487	-.742
9	4.295	10.800	17.715	6.327	35.498	3.823	61.392	2.909	115.701	1.302	164.943	.631
10	8.723	15.493	21.770	9.986	38.940	7.078	64.267	5.467	117.973	3.323	166.547	2.025
11	11.585	16.199	24.358	10.487	41.105	7.486	66.108	5.843	119.417	3.598	167.634	2.203
12	15.846	16.642	28.129	10.923	44.283	7.849	68.897	6.110	121.501	3.835	169.065	2.442
13	21.618	16.604	33.252	11.253	48.640	8.184	72.644	6.408	124.422	4.057	171.278	2.676
14	27.277	16.489	38.412	11.529	52.991	8.315	76.313	6.598	127.290	4.257	173.375	2.808
15	32.911	16.259	43.567	11.634	57.393	8.490	80.039	6.745	129.993	4.320	175.430	2.922
16	40.345	15.832	50.130	11.621	62.771	8.539	84.700	6.784	133.473	4.440	177.931	2.954
17	47.378	15.325	56.415	11.552	68.203	8.599	89.220	6.730	137.156	4.498	180.642	2.974
18	54.600	14.779	62.367	11.373	73.628	8.559	93.797	6.624	140.619	4.442	183.036	3.024
19	61.817	14.109	69.275	11.123	79.051	8.330	98.353	6.557	144.214	4.438	185.851	2.985
20	76.080	12.593	81.970	10.477	89.905	7.886	107.621	6.118	151.250	4.116	190.836	2.862
21	90.393	10.871	94.843	9.268	100.707	7.162	116.809	5.564	158.243	3.824	196.000	2.648
22	104.729	8.981	107.703	7.823	111.669	6.098	126.168	4.814	165.501	3.331	201.100	2.312
23	111.839	7.869	114.070	6.961	117.001	5.560	130.641	4.311	168.927	3.009	203.841	2.056
24	119.020	6.701	120.482	5.980	122.467	4.846	135.204	3.747	172.367	2.629	206.349	1.850
25	133.269	3.920	133.911	3.626	133.304	3.071	144.355	2.427	179.552	1.684	211.614	1.181

Key

A - Internal wing
B - External wing
C - Row
D - B.A.
E - B.F.
F - Chord

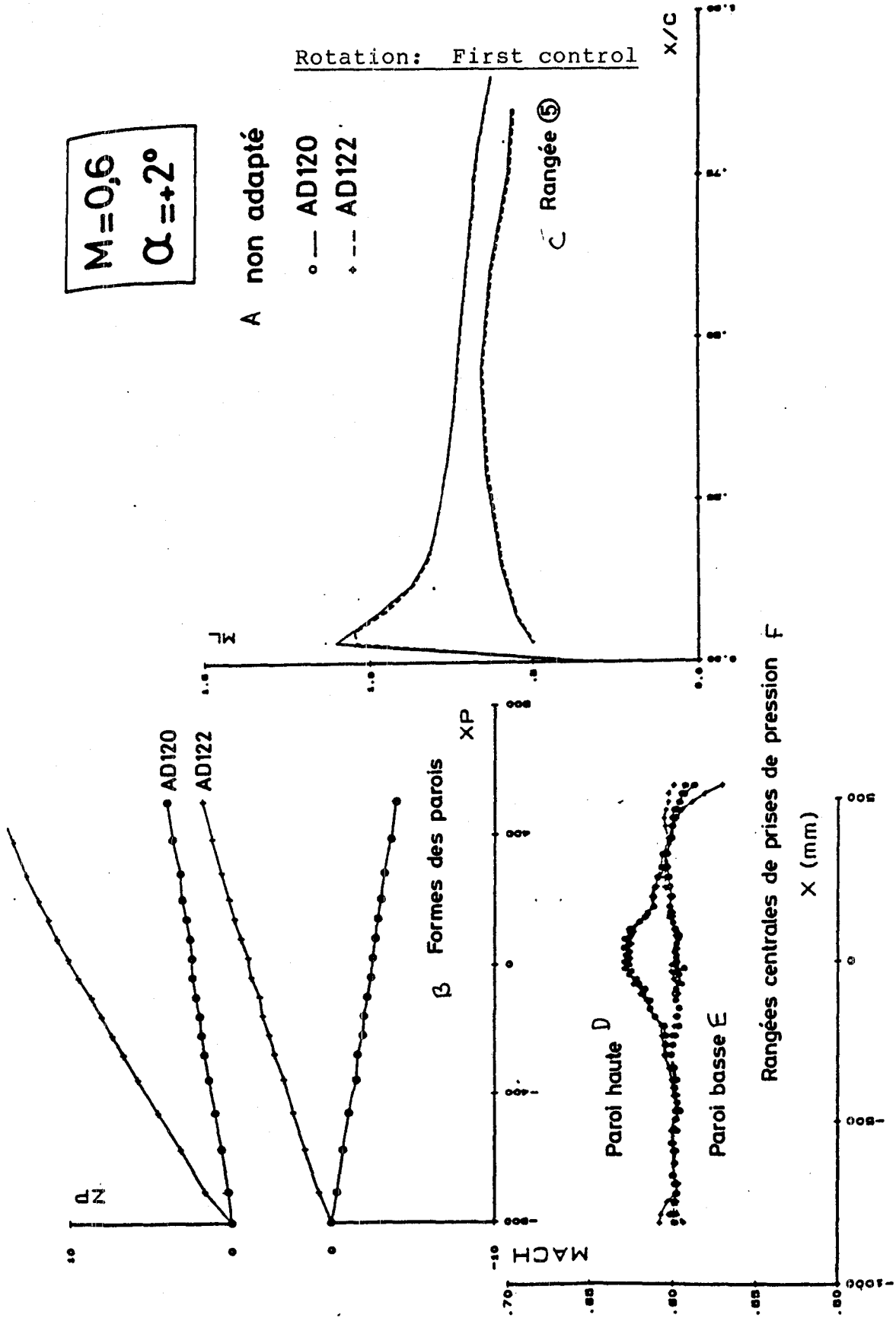
CONTROL TESTS

Wall incidence and rotation:	Figures 14 to 16
Convergence of iterations:	Figures 17 to 20
Non/2-D/3-D comparison:	Figures 21 to 23

Key to figures 14, 15, and 16

A - Non-adapted
B - Wall shapes
C - Row
D - Upper wall
E - Lower wall
F - Central rows of pressure recorders

Figure 14


M=0,6
α=+2°
Rotation: First control
A non adapté
AD120
AD122
C Rangée ⑤
X/C
ML
AD120
AD122
ZP
B Formes des parois
XP
MACH
Paroi haute D
Paroi basse E
Rangées centrales de prises de pression F
X (mm)

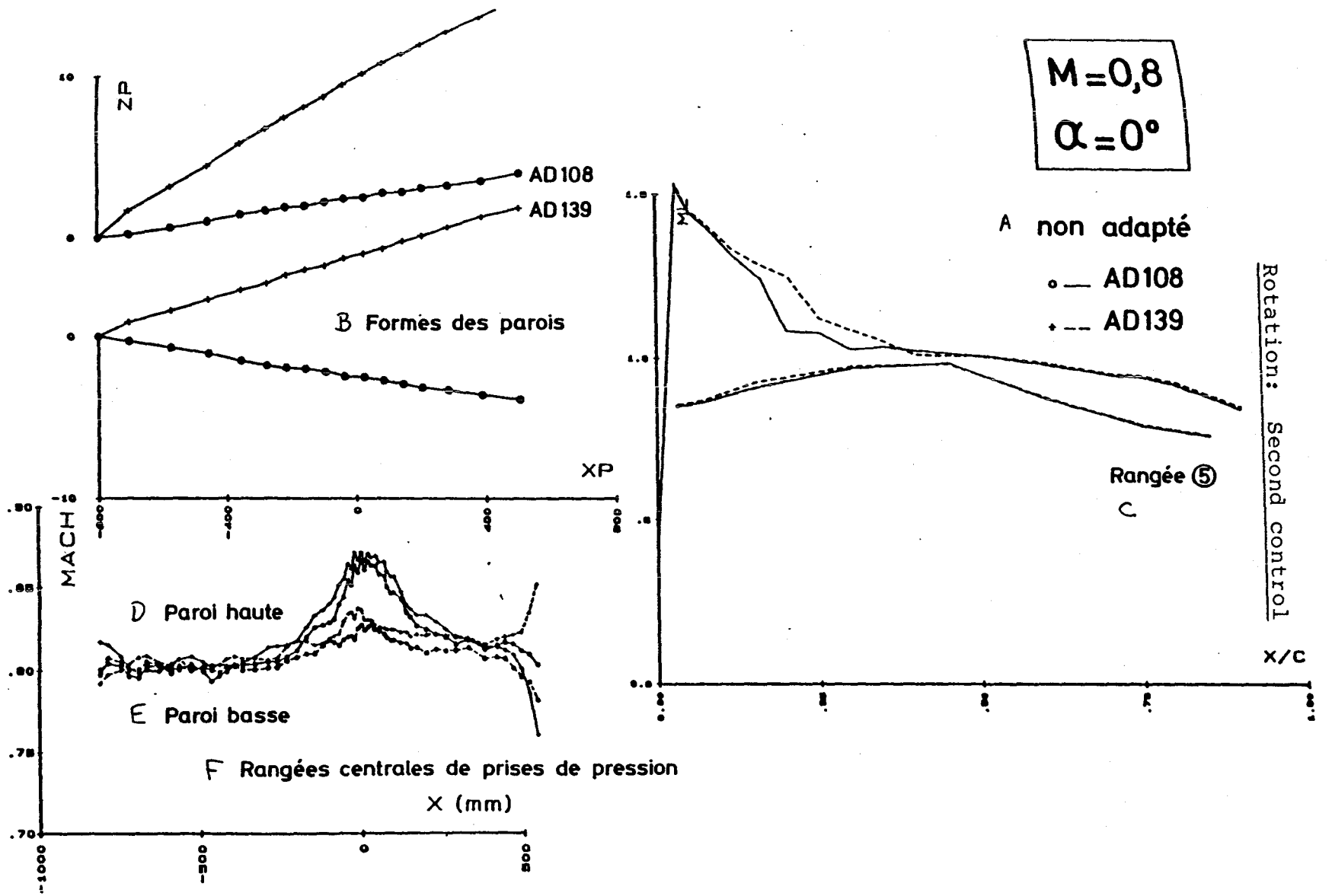

M=0,8
α=0°
A non adapté
AD108
AD139
B Formes des parois
ZP
XP
C
Rangée ⑤
Rotation: Second control
X/C
MACH
D Paroi haute
E Paroi basse
F Rangées centrales de prises de pression
X (mm)

Figure 15

Figure 16

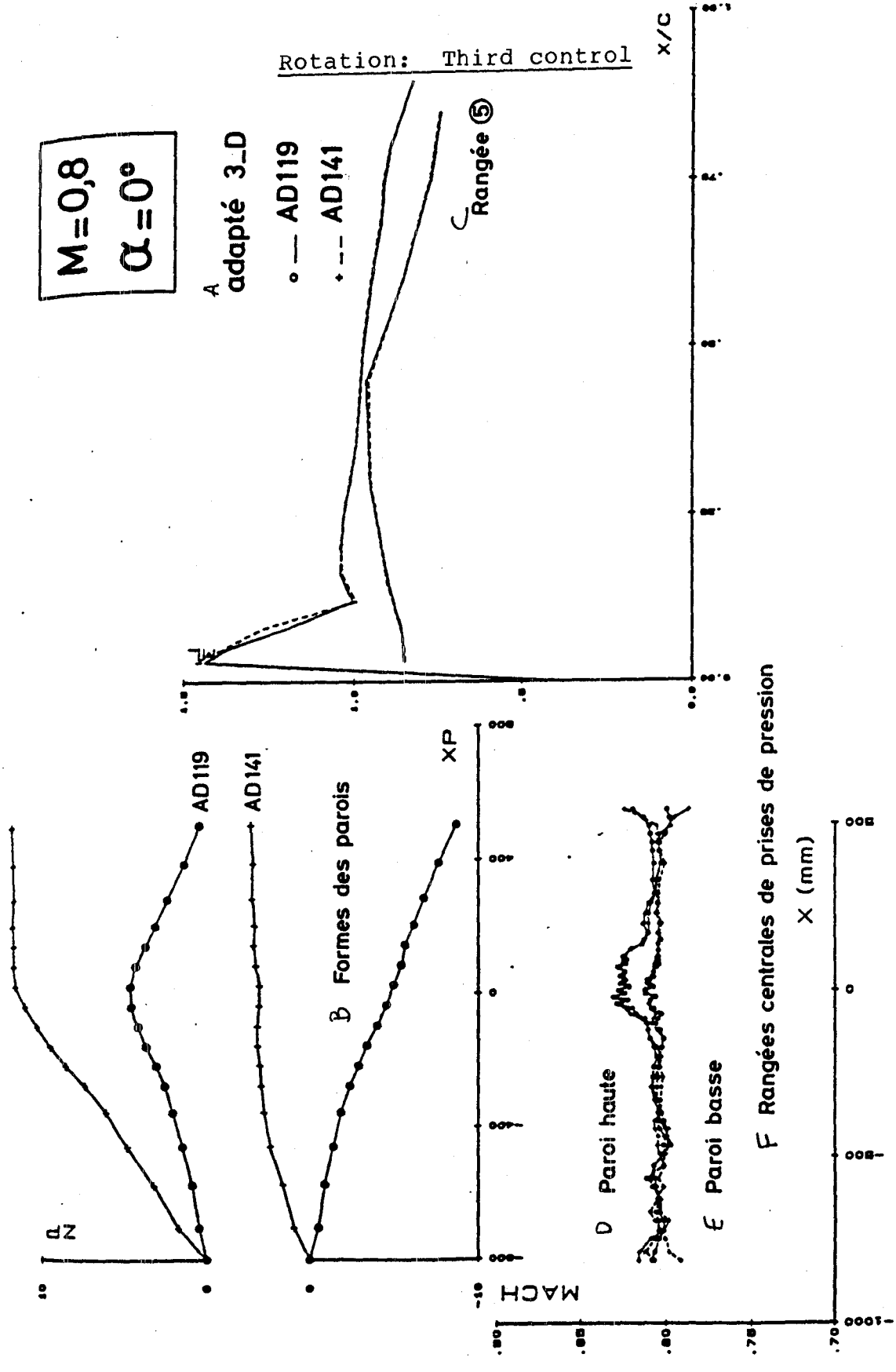
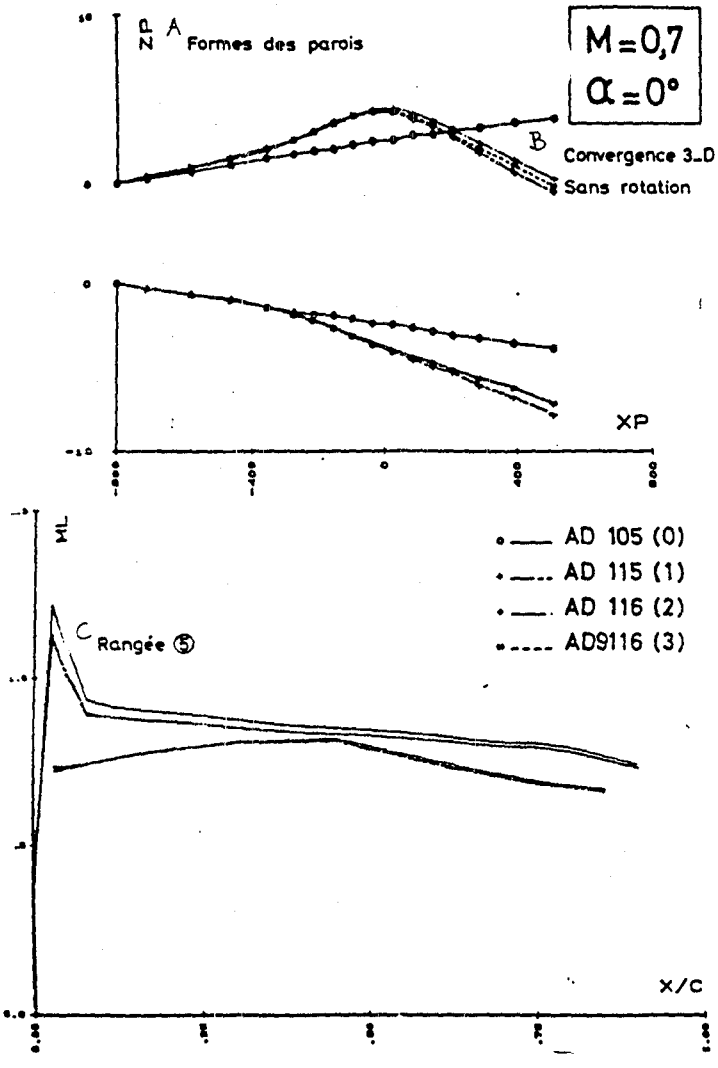

M=0,8
α=0°
A adapté 3_D
o — AD119
+ -- AD141
Rotation: Third control
C Rangée ⑤
x/c
ZP
AD119
AD141
B Formes des parois
XP
MACH
D Paroi haute
E Paroi basse
F Rangées centrales de prises de pression
X (mm)

Figure 17

First case

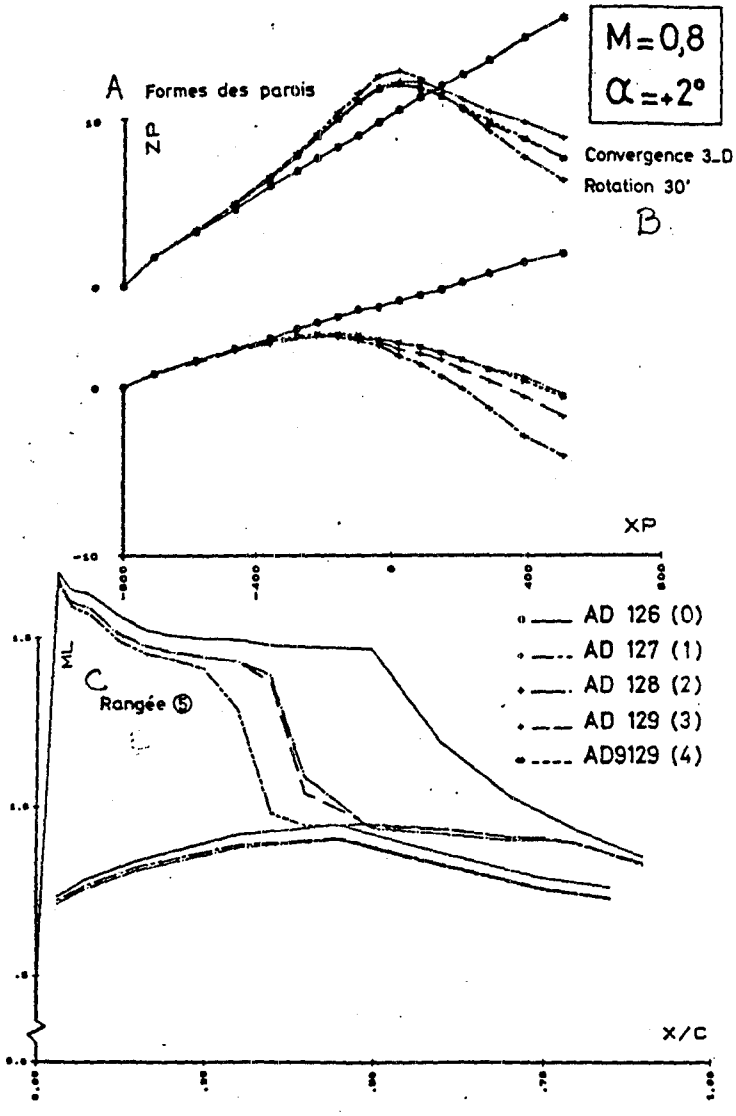


Key

A - Wall shapes
B - 3-D convergence, no rotation
C - Row

Figure 18

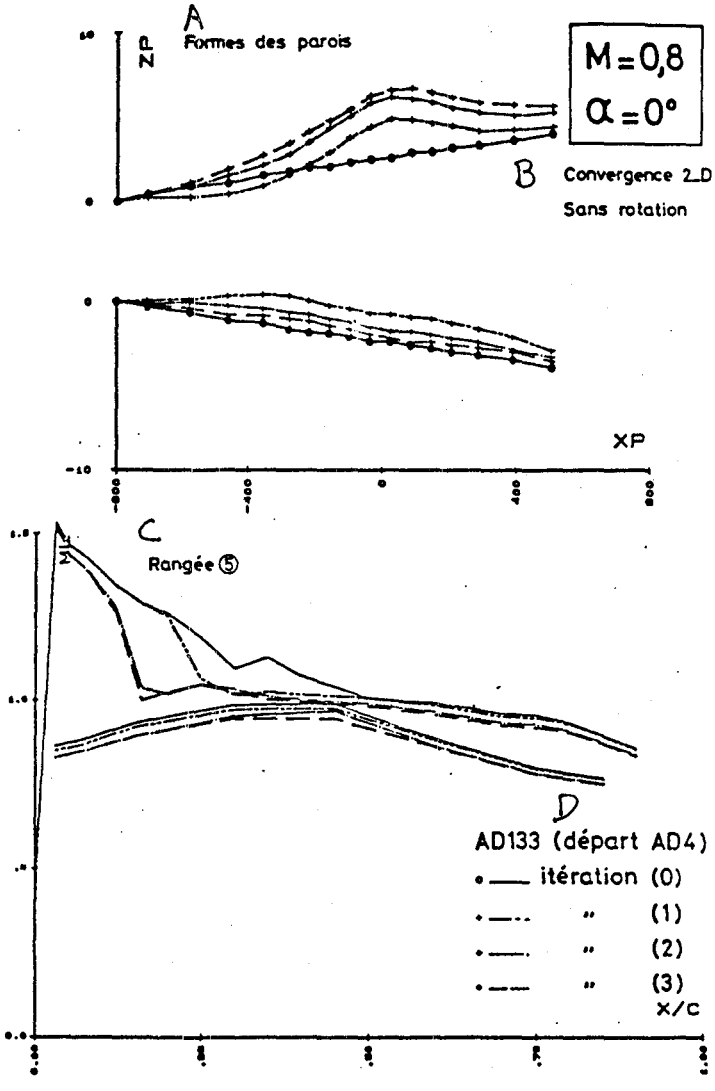
Second case



Key

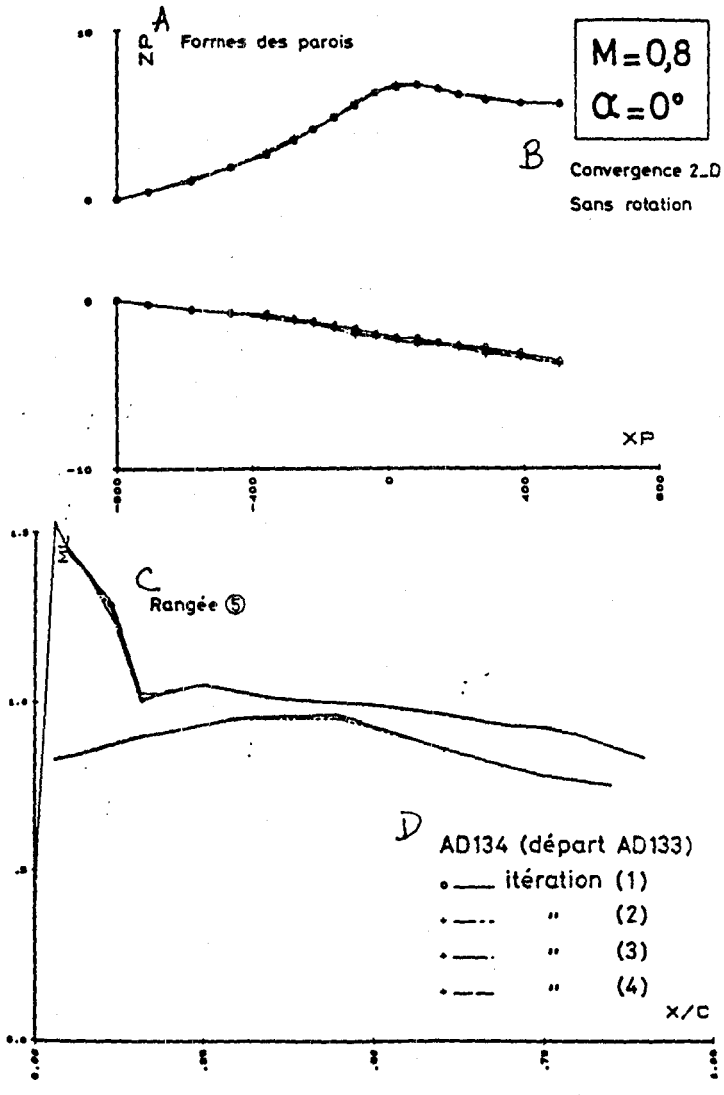
A - Wall shapes
B - Row

Figure 19



Key

A - Wall shapes
B - 2-D convergence, no rotation
C - Row
D - Beginning



Key

A - Wall shapes
B - 2-D convergence, no rotation
C - Row
D - Beginning

Key to figures 21 and 22

A - Wall shapes
B - Row
C - Upper wall
D - Lower wall
E - Central rows of pressure recorders

Non/2-D/3-D comparison

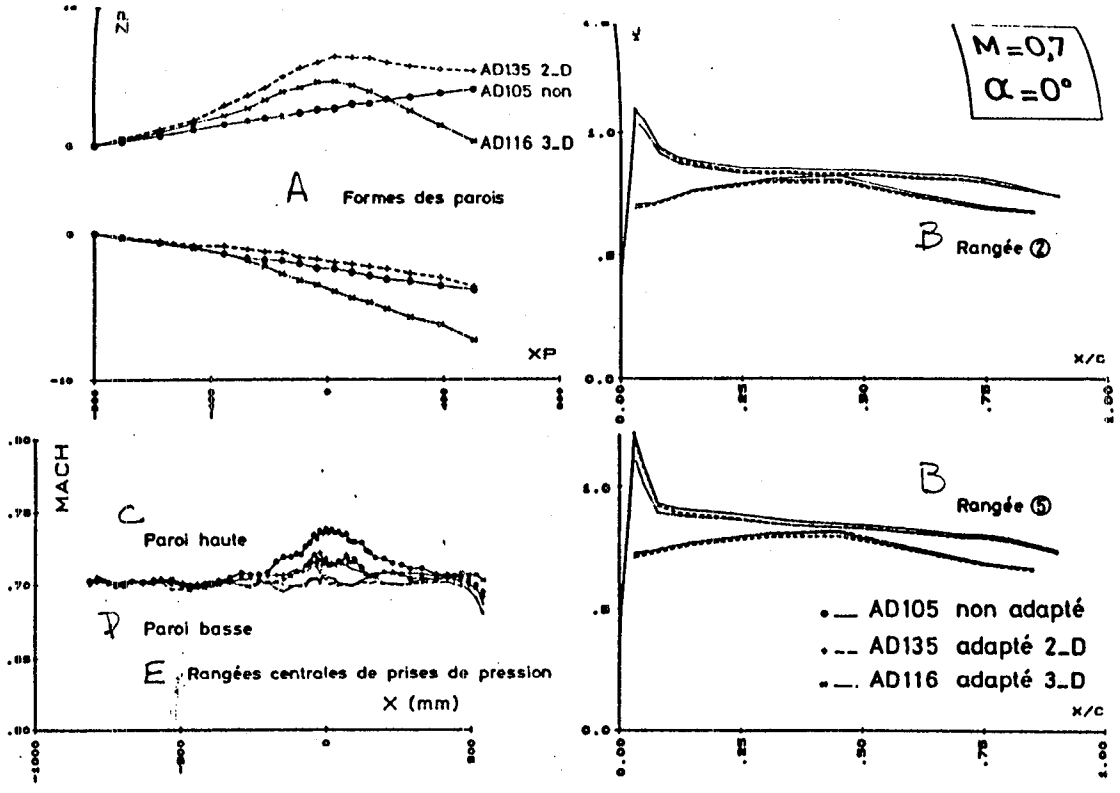
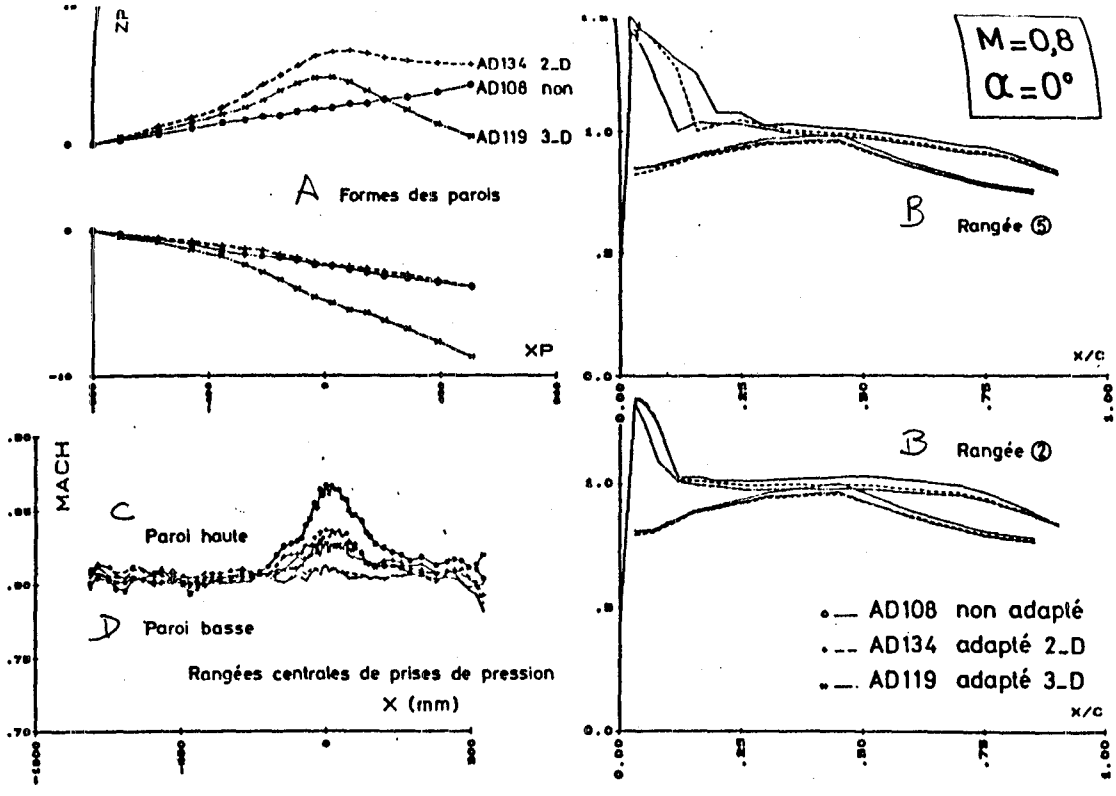
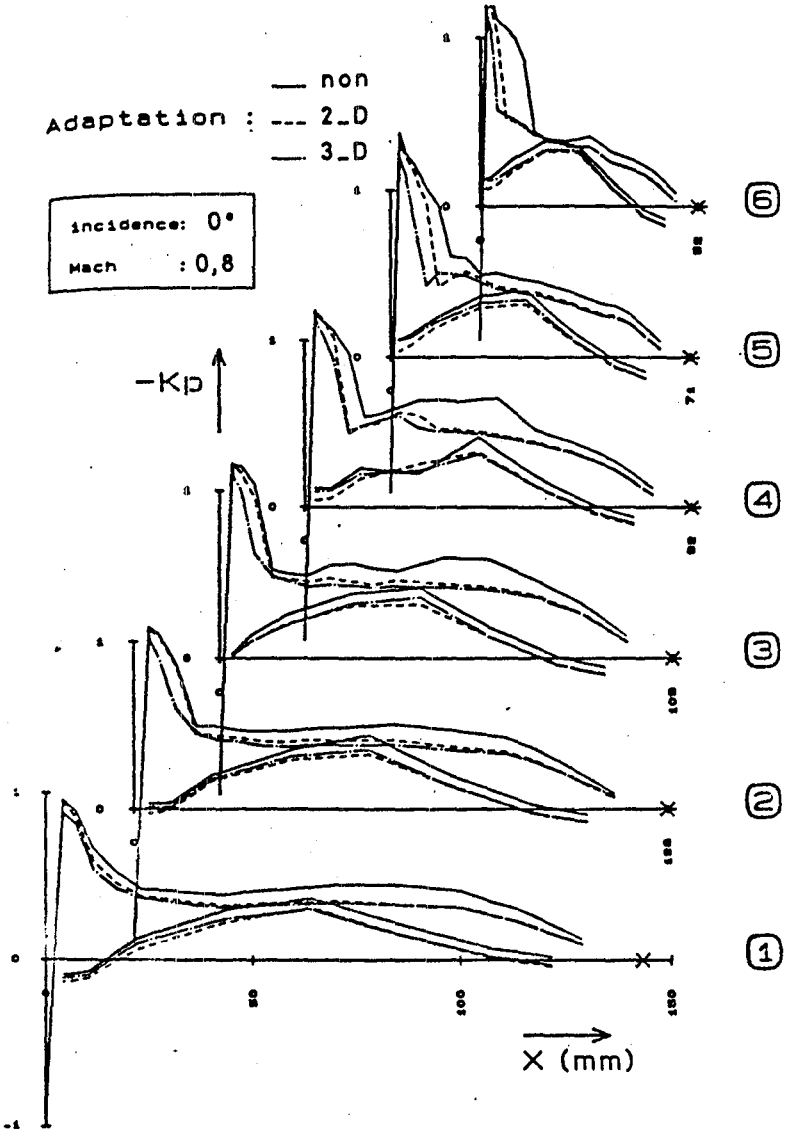


Figure 22

Non/2-D/3-D comparison



Non/2-D/3-D comparison



VISUALIZATION OF CURRENT LINES

ON THE LEFT LATERAL WALL

Mo = 0.6	$\alpha = +2^{\circ}$	Non-adapted	Figure 24
Mo = 0.6	$\alpha = +2^{\circ}$	2-D	Figure 25
Mo = 0.6	$\alpha = -2^{\circ}$	Non-adapted	Figure 26

Figure 24

Left lateral door visualization $\alpha = +2^{\circ}$ M = 0.6 non-adapted

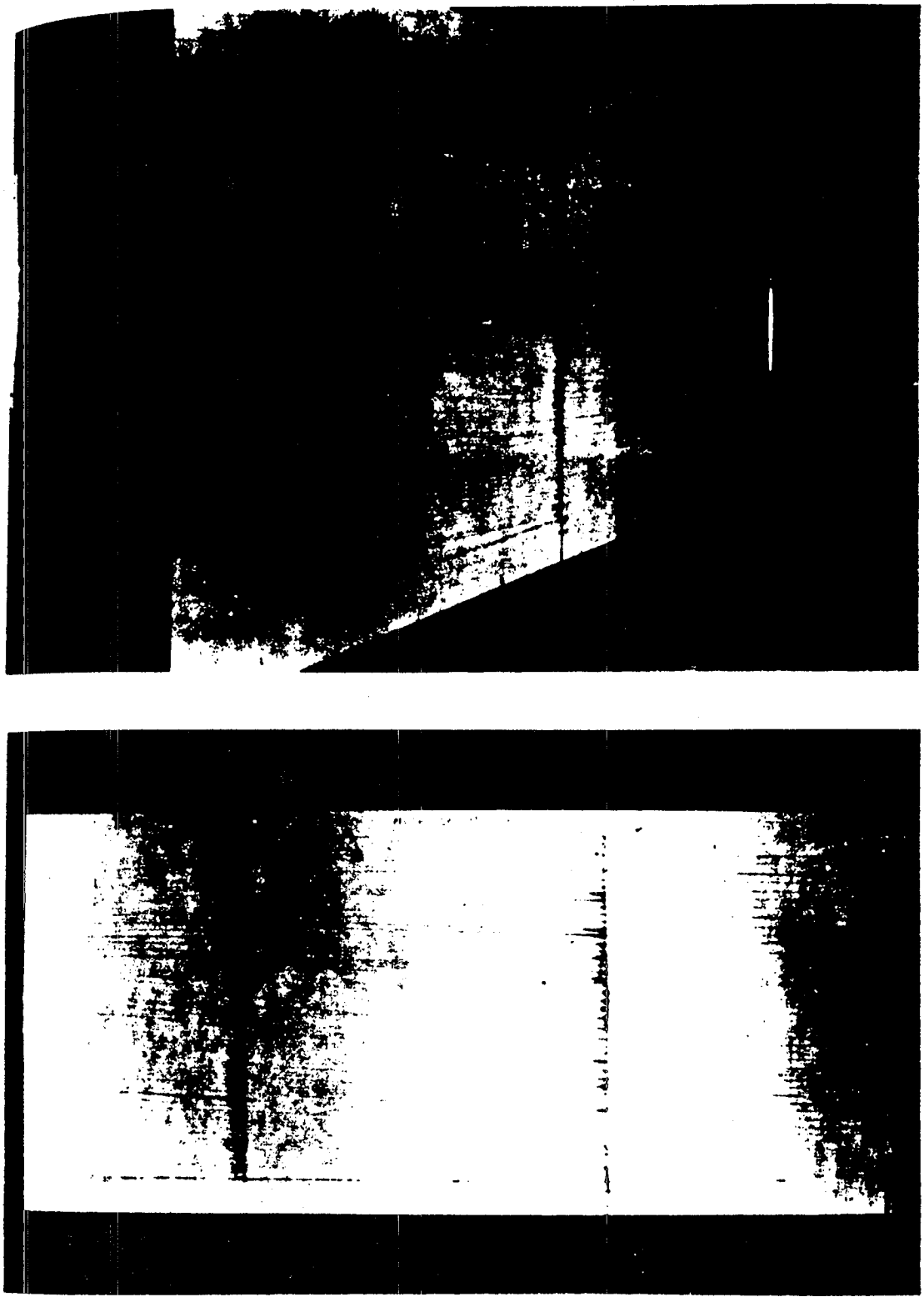


Figure 25

[illegible]

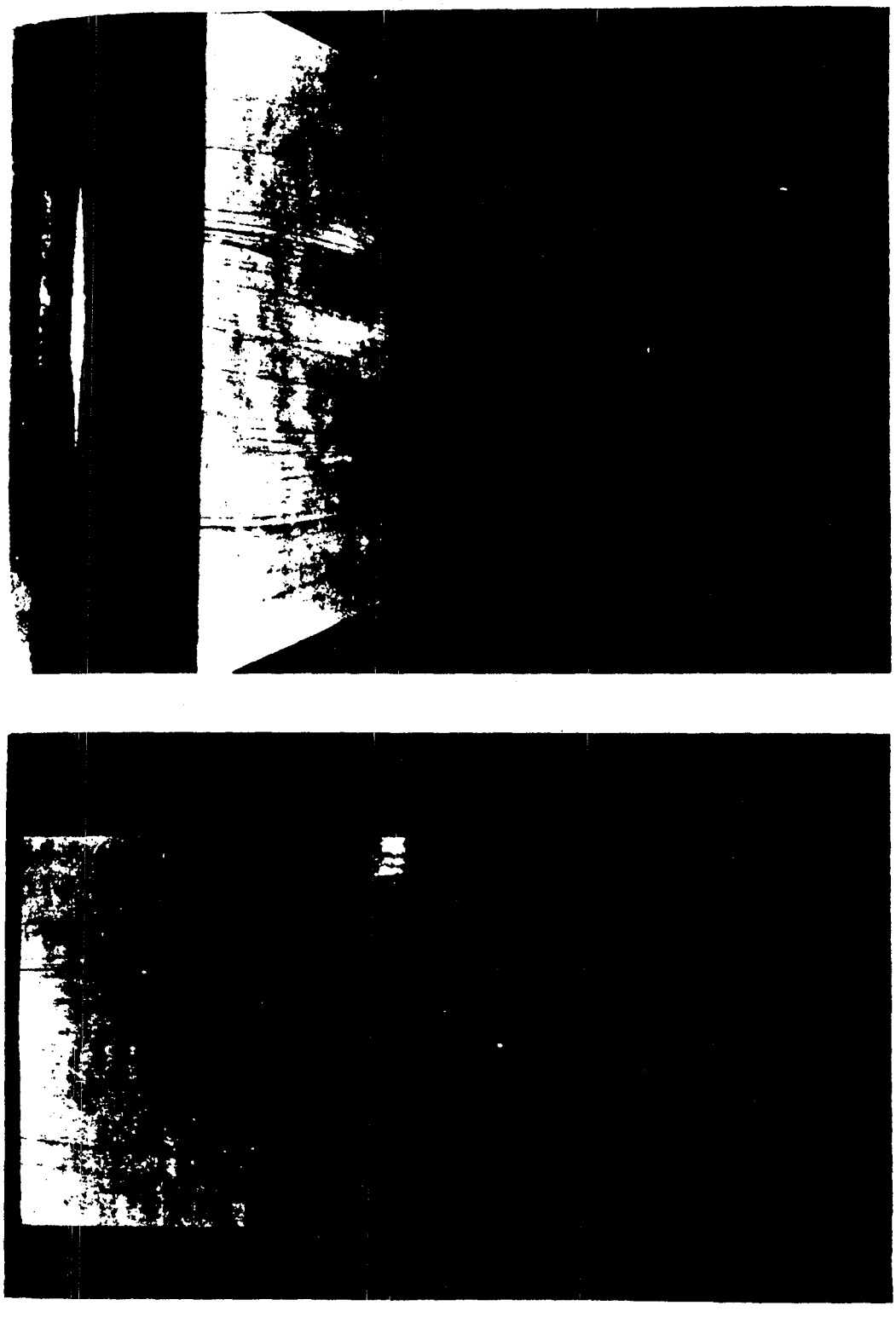


Figure 26

Left lateral door visualization $\alpha = -2^{\circ}$ M = 0.6 non-adapted

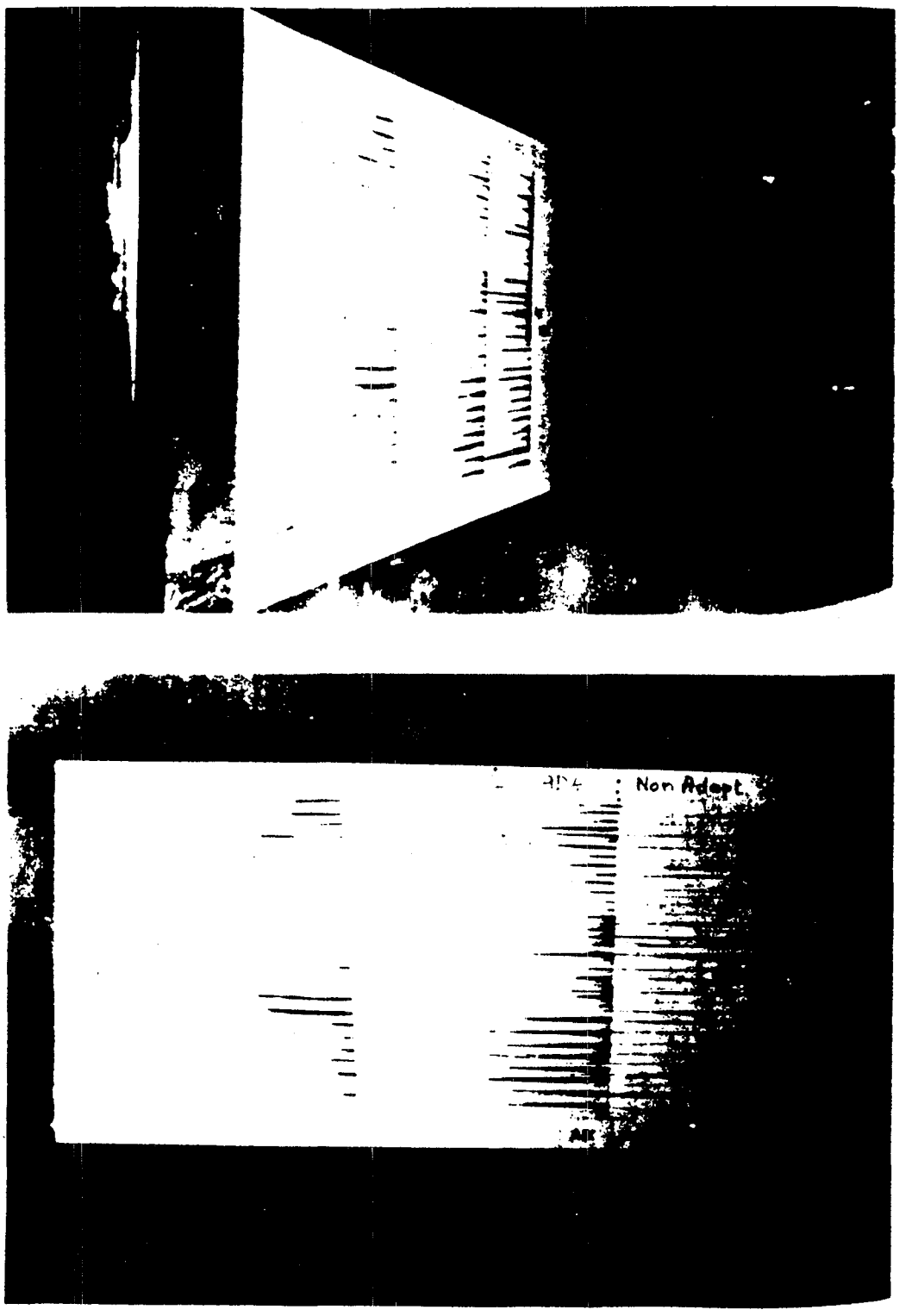
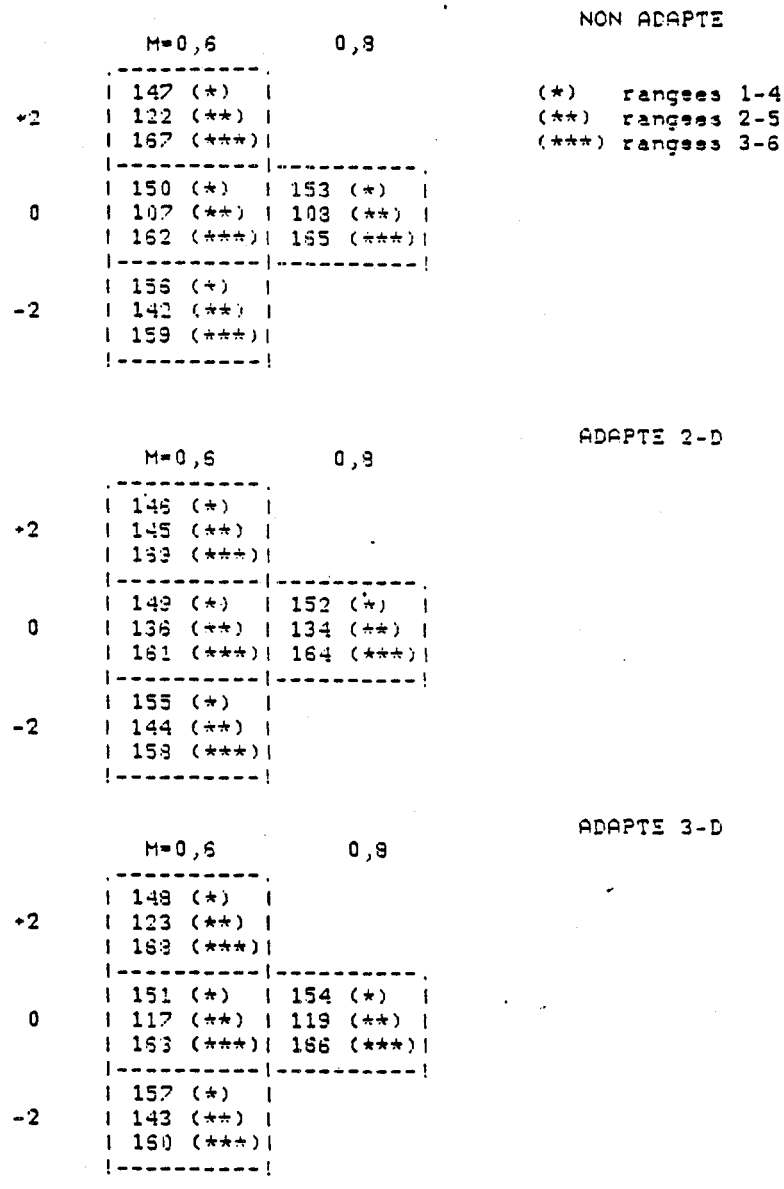


Figure 26a

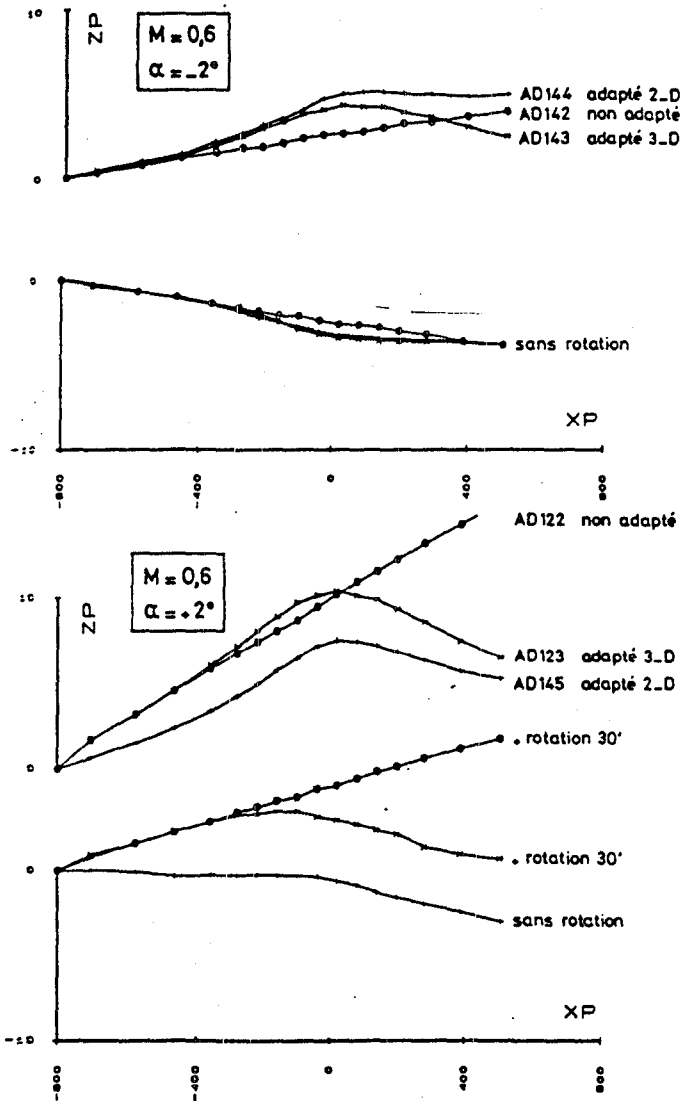
Use of four base cases



Shape of walls	Figures 27-28
Mach on adaptable walls	Figures 29-32
Mach on lateral wall	Figures 33-36
Kp distribution	Figures 37-44
Lift coefficient	Figures 45-50

Figure 27

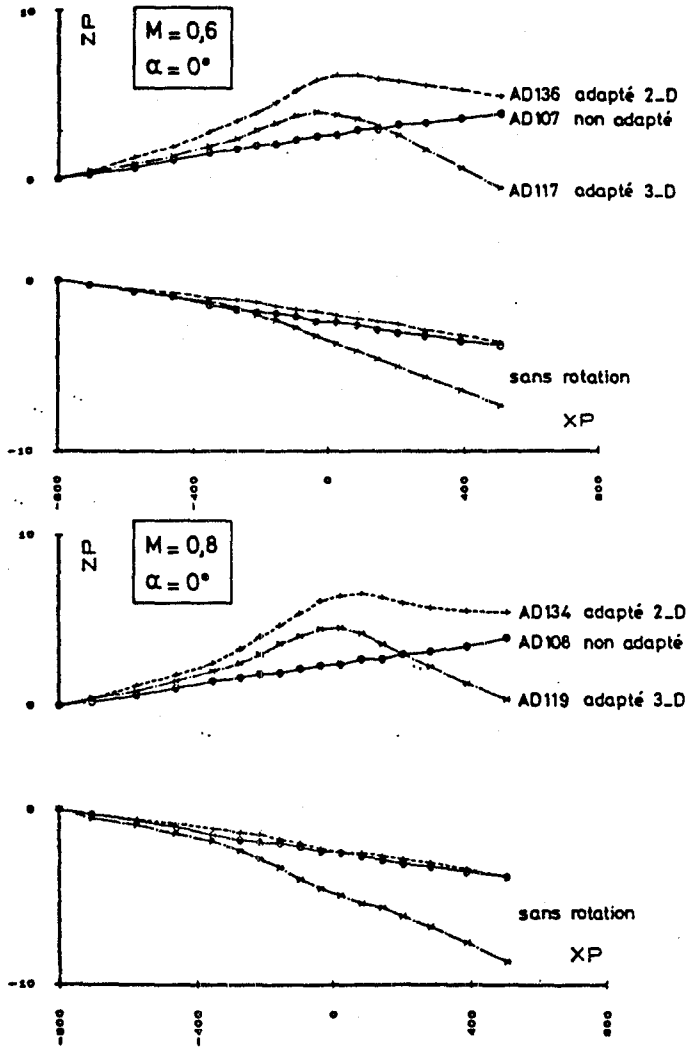
Use of the four base cases - Wall shape



"Sans rotation" = No rotation

Figure 28

Use of the four base cases - Wall shape



"Sans rotation" = No rotation

Key to Figures 29, 30, 31, and 32:

A - Left lateral row
B - Central row
C - Right lateral row

Figure 29

Use of the four base cases - Mach of adaptable walls

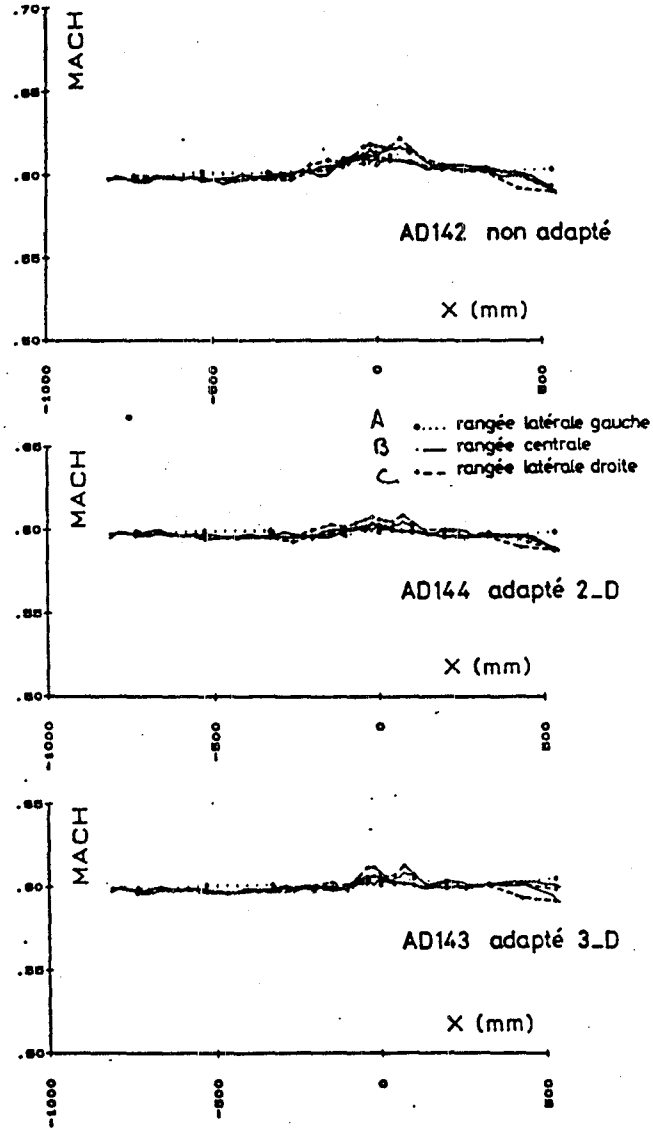


Figure 30

Use of the four base cases - Mach of adaptable walls

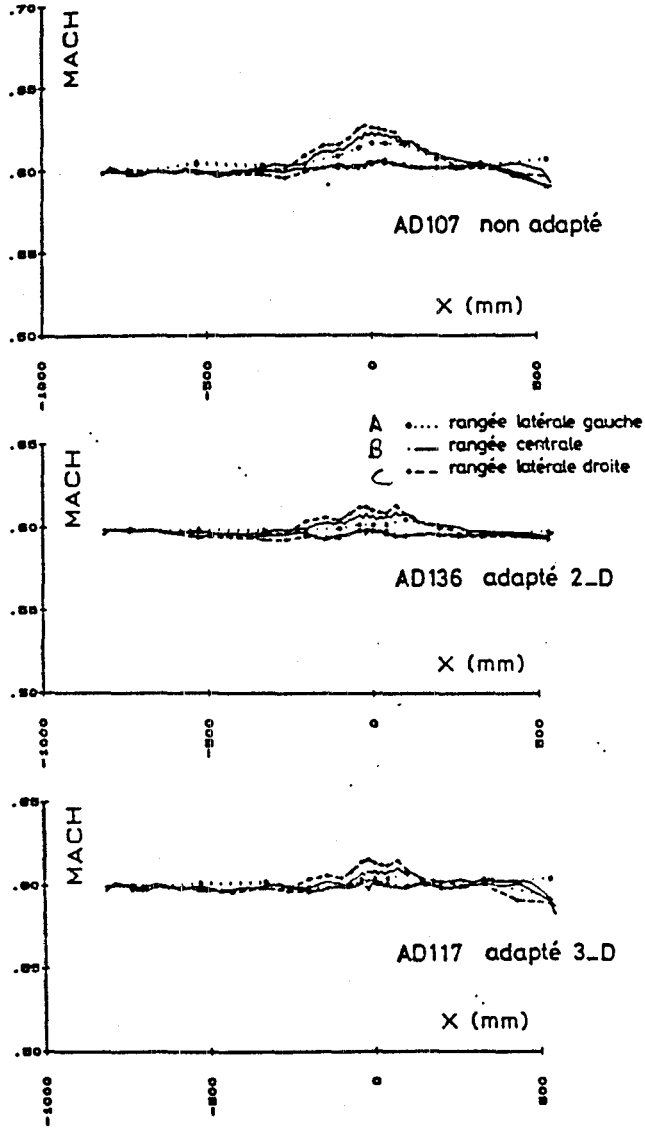


Figure 31

Use of the four base cases - Mach of adaptable walls

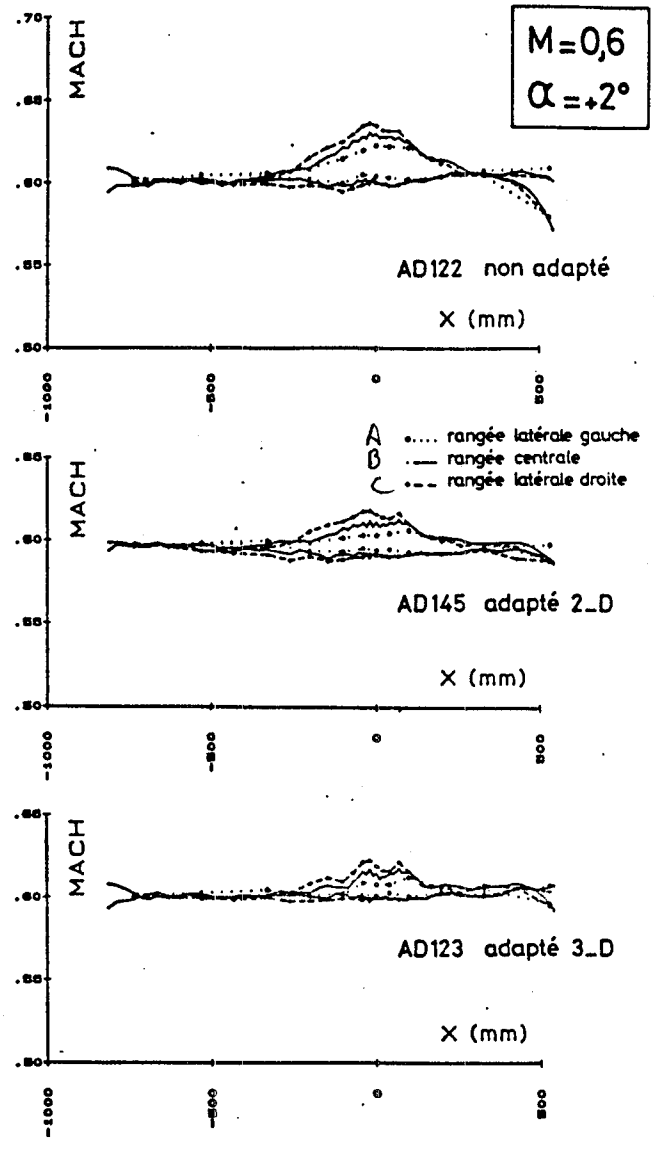
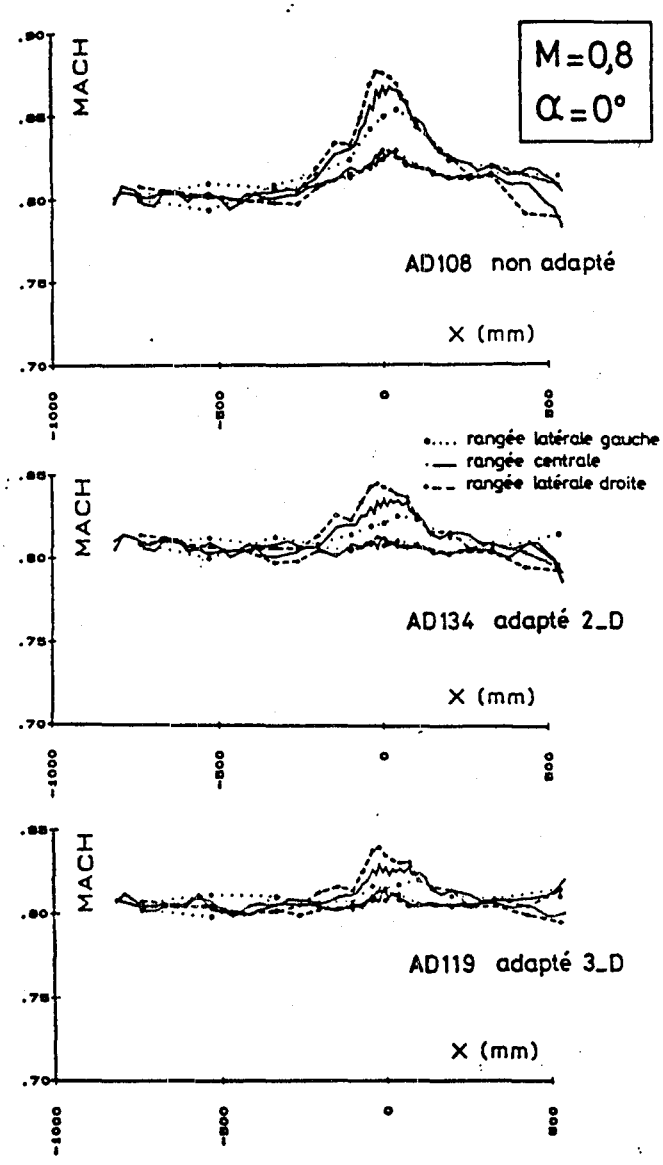


Figure 32

Use of the four base cases - Mach of adaptable walls



Key to Figures 33, 34, 35, and 36:

A - Vertical rows
- ° upstream
- ___ middle
- . downstream

B - Horizontal rows
- ° upper
- ___ middle
- . lower

Figure 33

Use of the four base cases - Mach of lateral walls

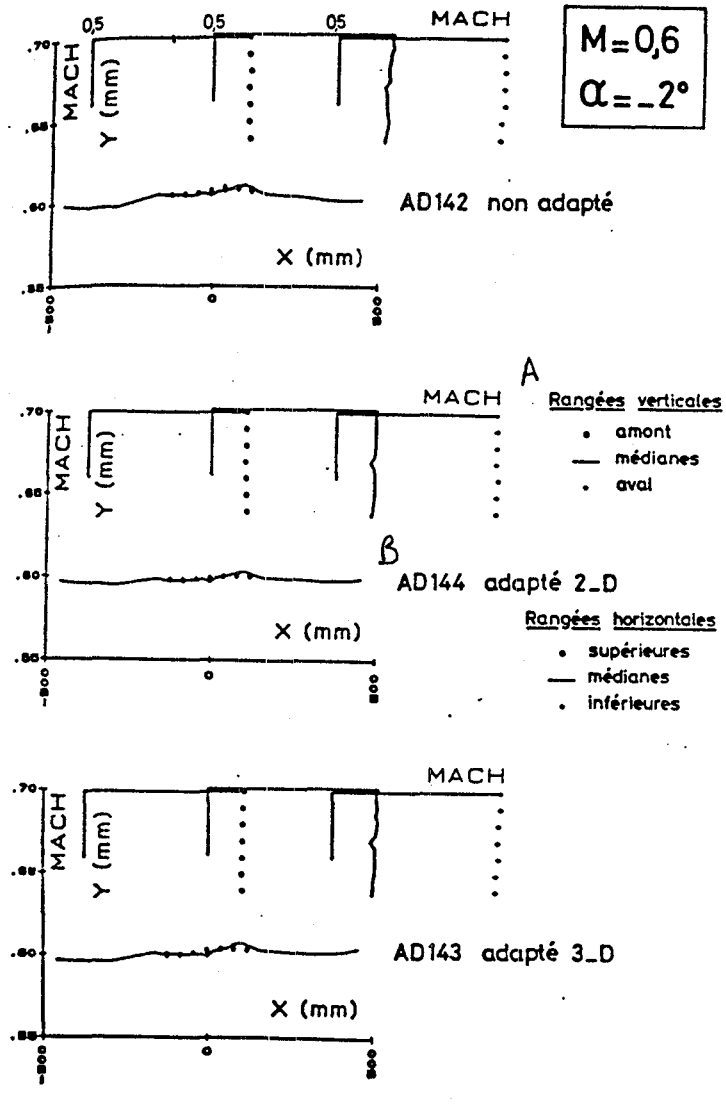


Figure 34

Use of the four base cases - Mach of lateral walls

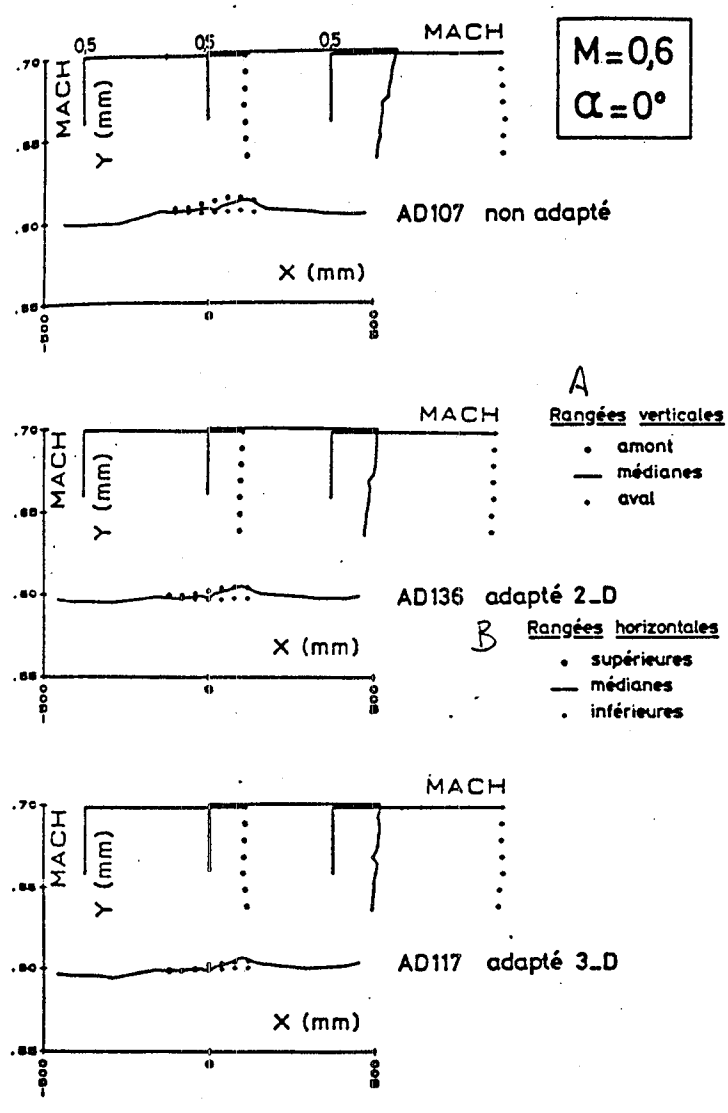


Figure 35

Use of the four base cases - Mach of lateral walls

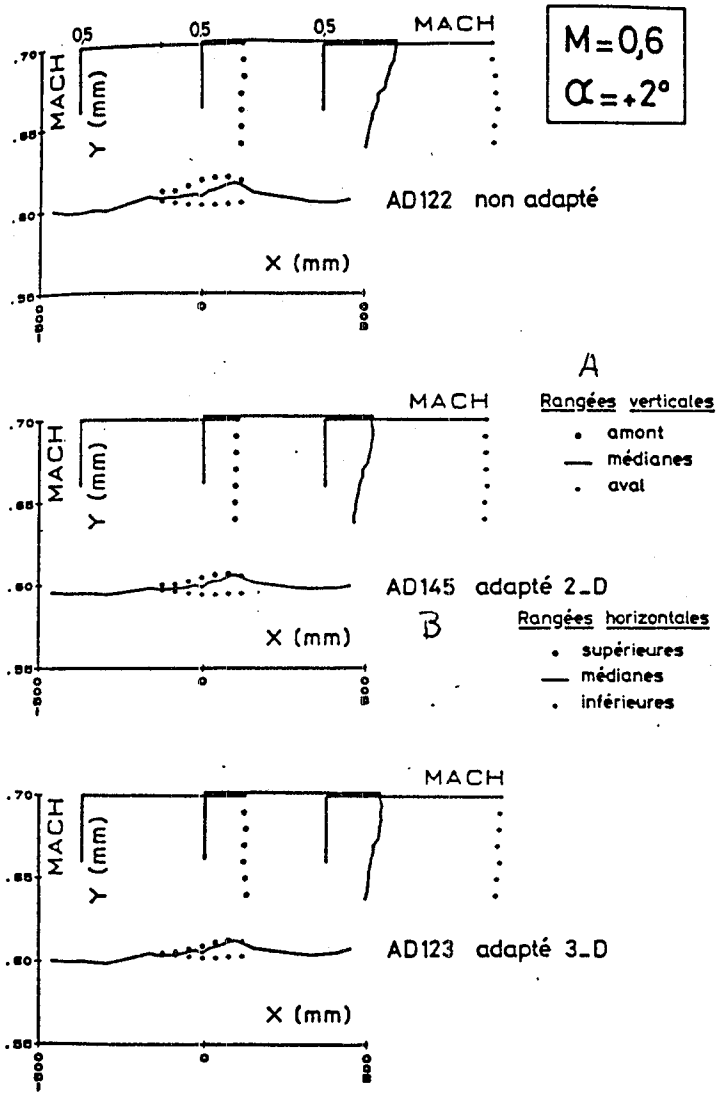


Figure 36

Use of the four base cases - Mach of lateral walls

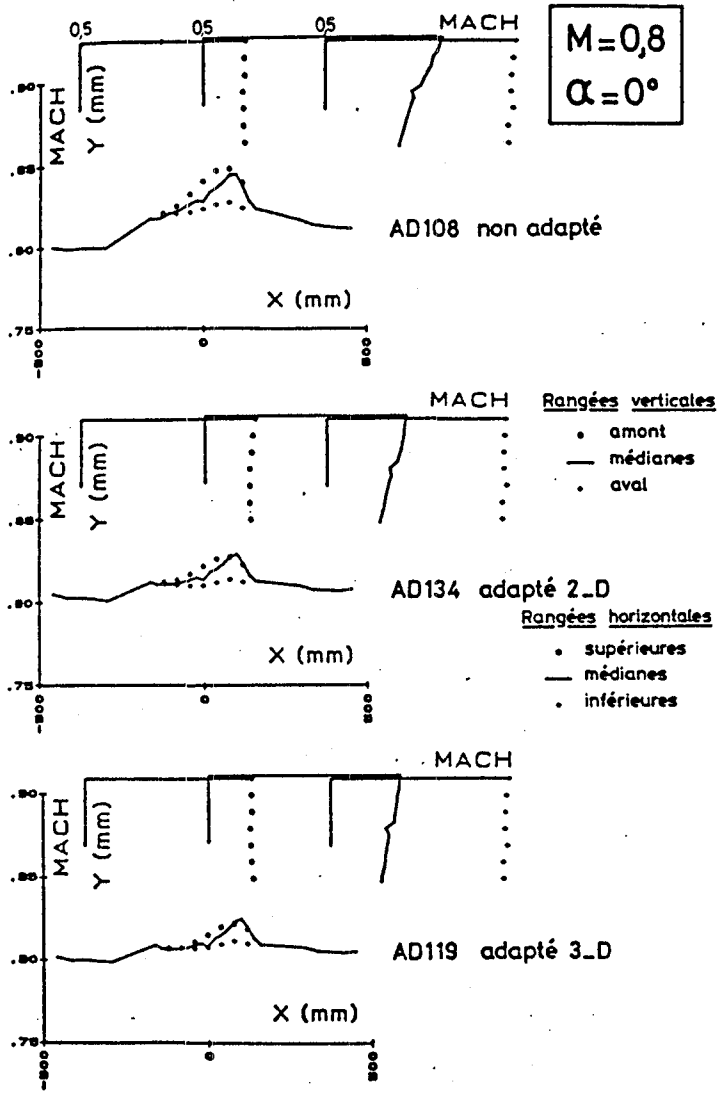


Figure 37

Use of the four base cases - Kp

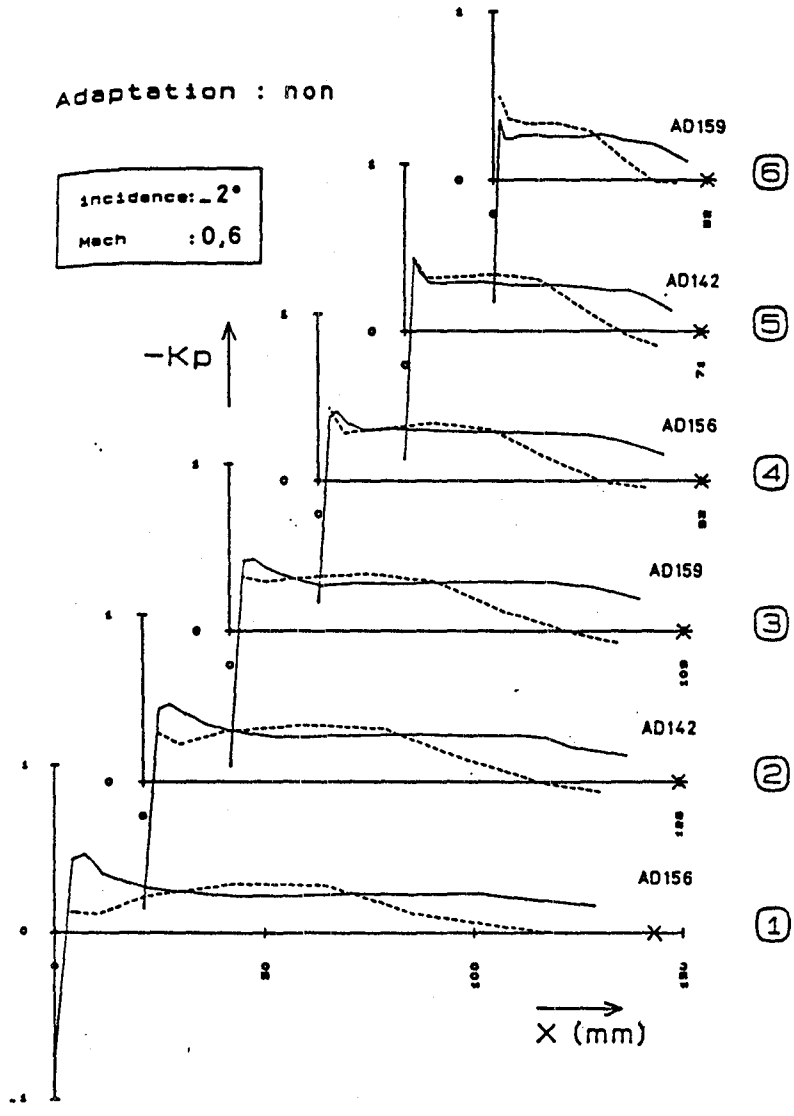


Figure 38

Use of the four base cases - Kp

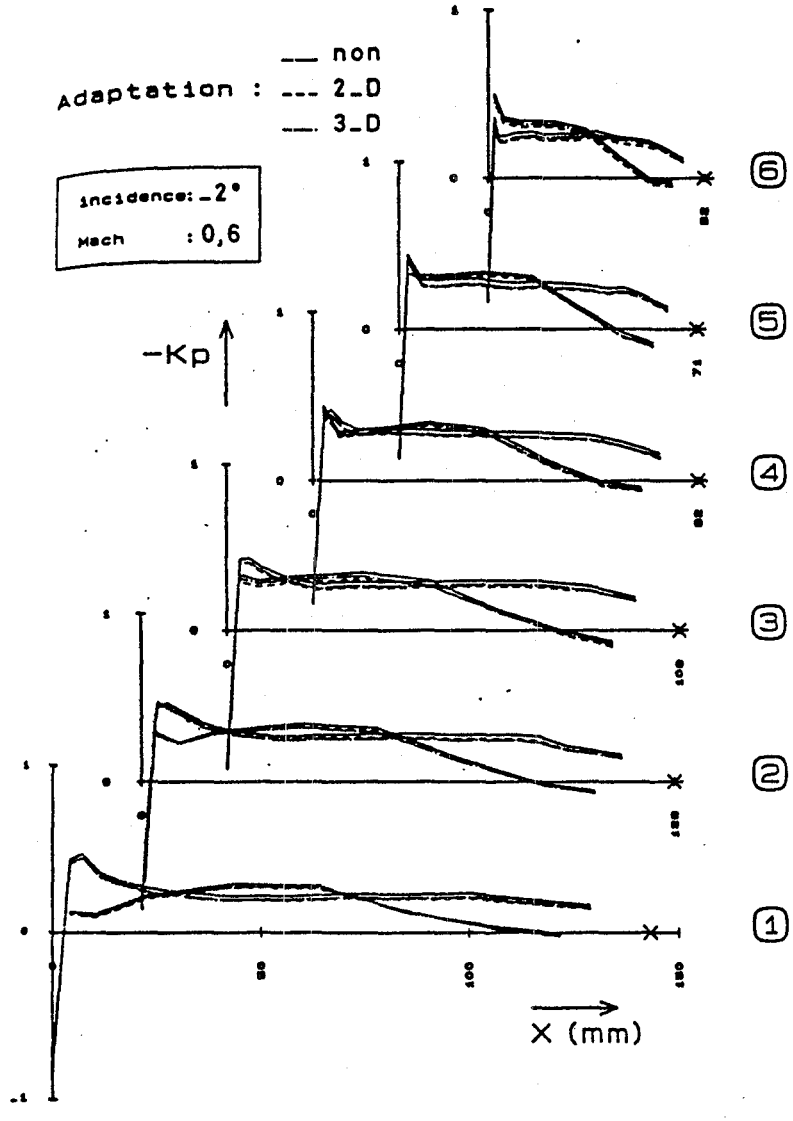


Figure 39

Use of the four base cases - Kp

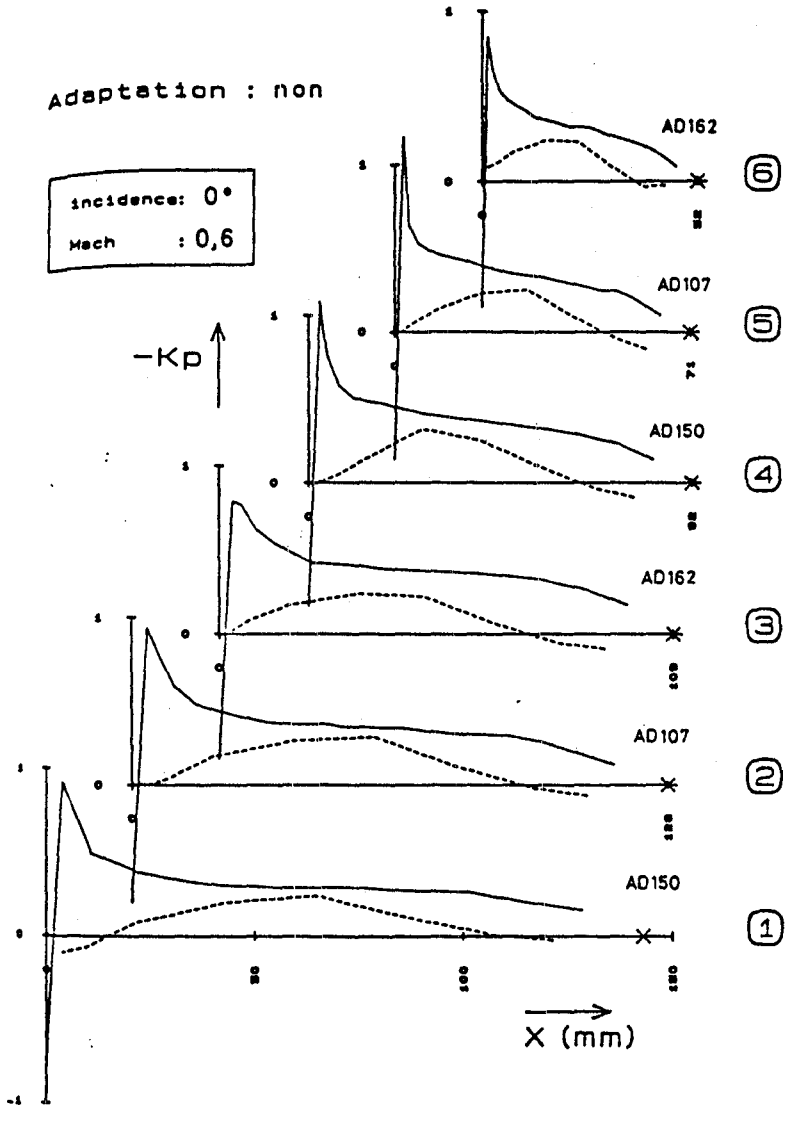


Figure 40

Use of the four base cases - Kp

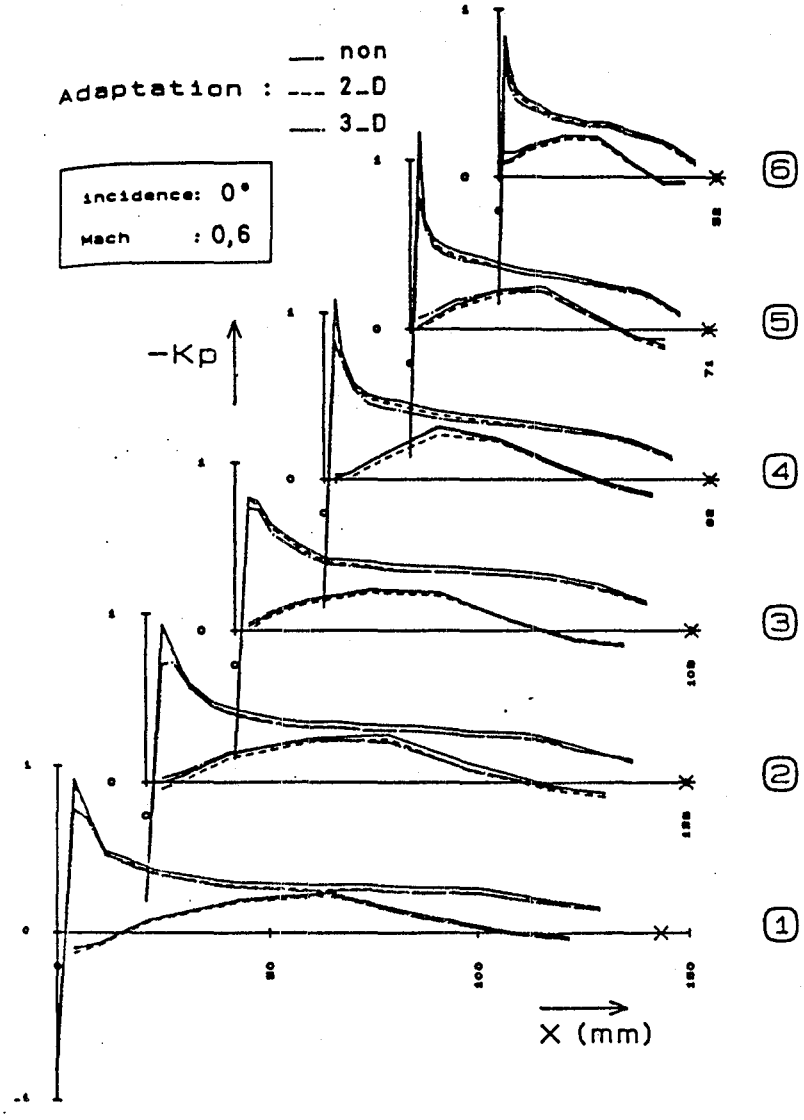


Figure 41

Use of the four base cases - Kp

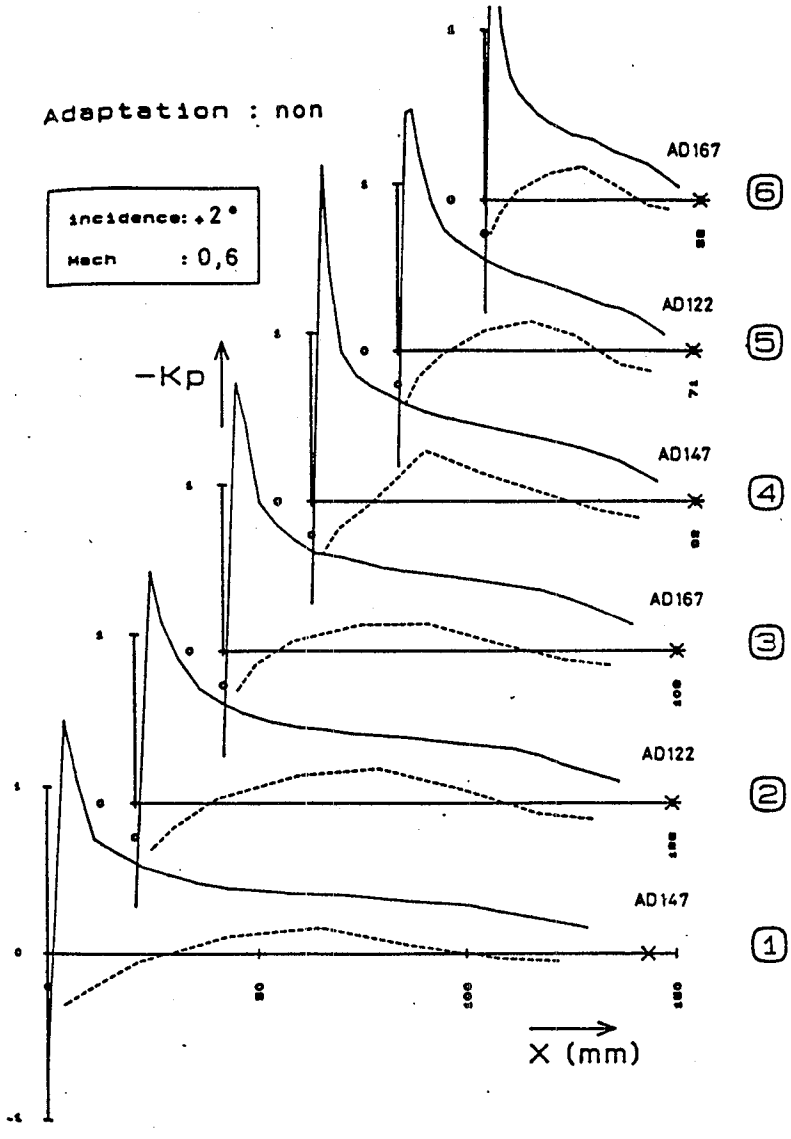


Figure 42

Use of the four base cases - Kp

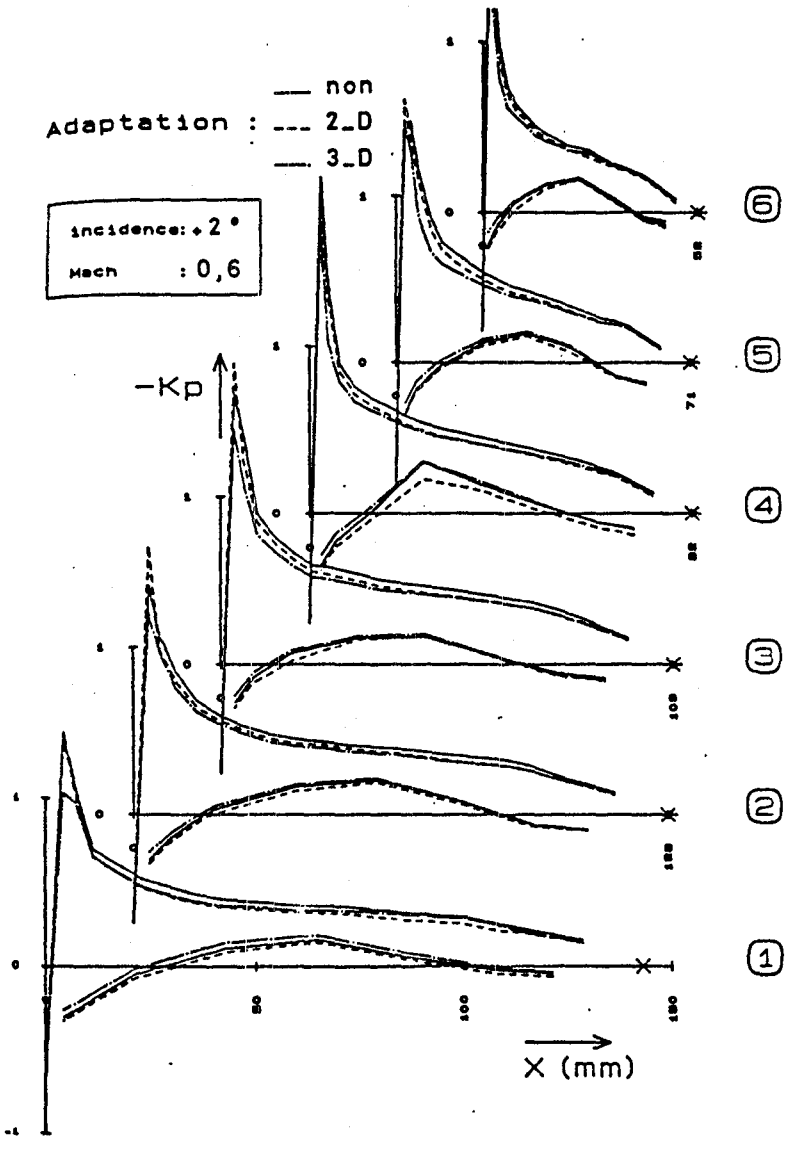


Figure 43

Use of the four base cases - Kp

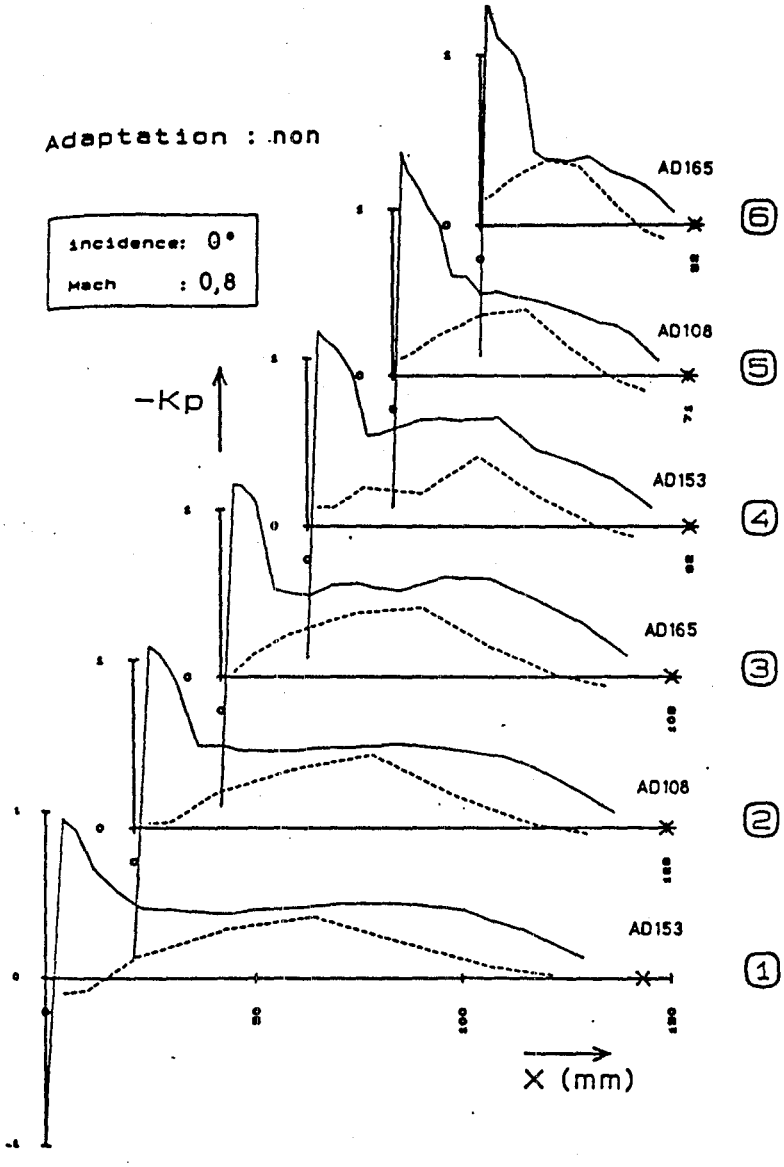


Figure 44

Use of the four base cases - Kp

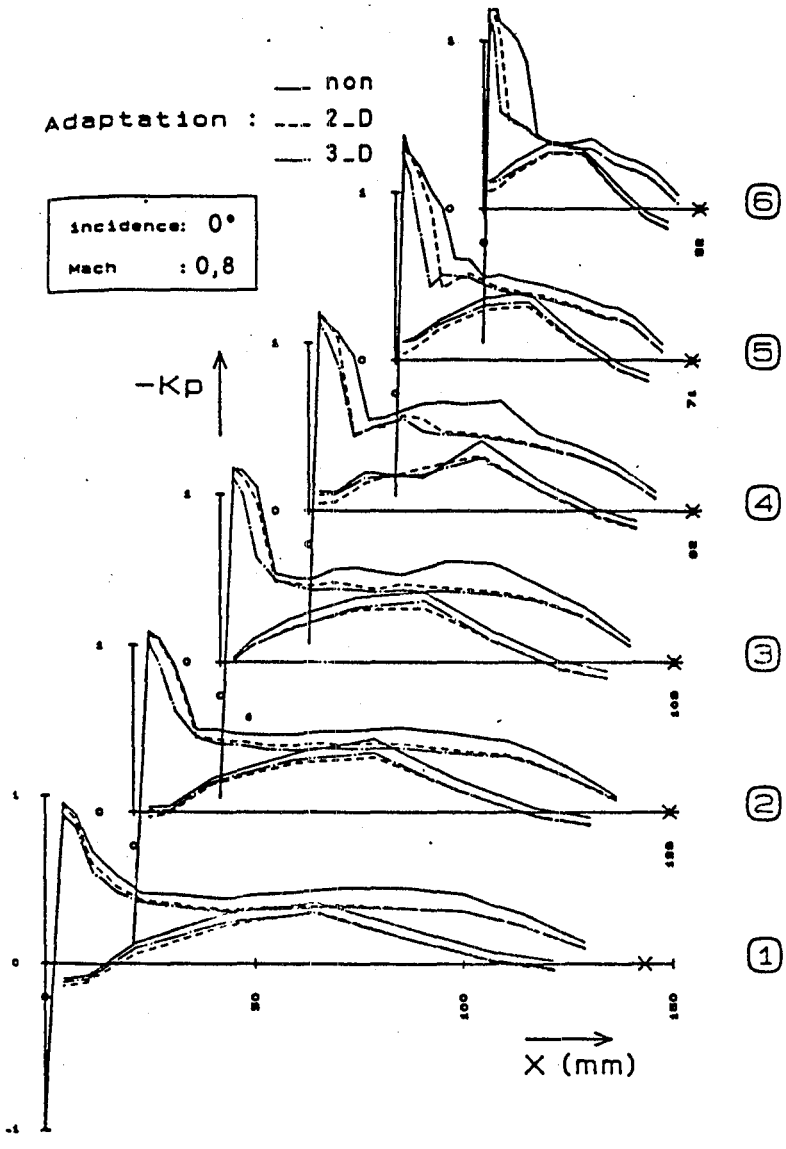


Figure 45

Use of the four base cases - Cz
Cz recapitulative

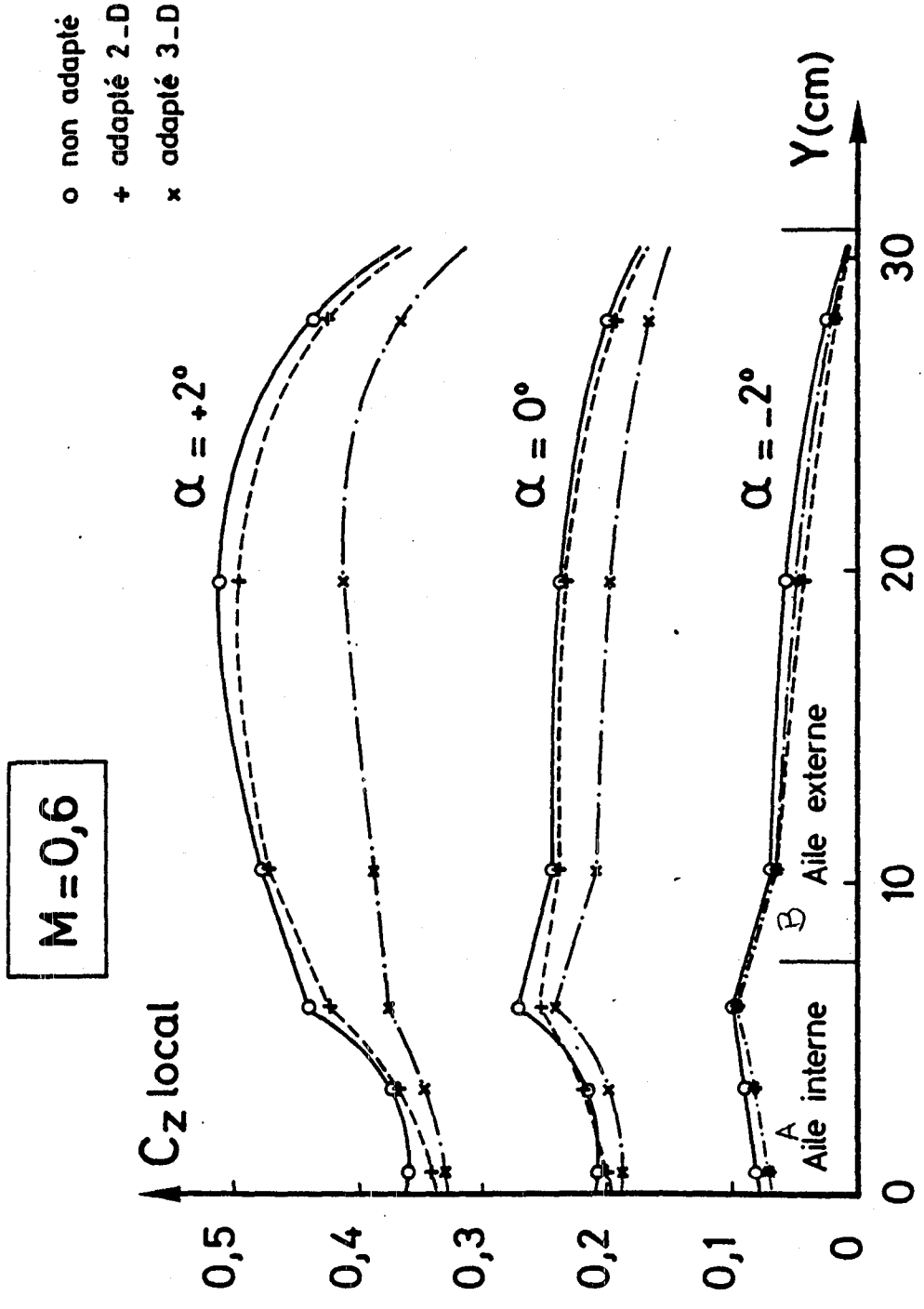
Local lift coefficients

	NON ADAPTE	ADAPTE 2-D	ADAPTE 3-D
I = +2 M = 0.6	R 1 : 0.3600	R 1 : 0.3405	R 1 : 0.3027
	R 2 : 0.3726	R 2 : 0.3687	R 2 : 0.3229
	R 3 : 0.4388	R 3 : 0.4237	R 3 : 0.3752
	R 4 : 0.4740	R 4 : 0.4715	R 4 : 0.3861
	R 5 : 0.5091	R 5 : 0.4948	R 5 : 0.4127
	R 6 : 0.4348	R 6 : 0.4250	R 6 : 0.3658
	Aile : 0.448	Aile : 0.438	Aile : 0.371
I = 0 M = 0.6	R 1 : 0.2081	R 1 : 0.1995	R 1 : 0.1865
	R 2 : 0.2154	R 2 : 0.2198	R 2 : 0.1984
	R 3 : 0.2711	R 3 : 0.2537	R 3 : 0.2411
	R 4 : 0.2418	R 4 : 0.2419	R 4 : 0.2076
	R 5 : 0.2351	R 5 : 0.2337	R 5 : 0.1984
	R 6 : 0.1993	R 6 : 0.1926	R 6 : 0.1647
	Aile : 0.231	Aile : 0.227	Aile : 0.200
I = -2 M = 0.6	R 1 : 0.0798	R 1 : 0.0661	R 1 : 0.0687
	R 2 : 0.0888	R 2 : 0.0819	R 2 : 0.0799
	R 3 : 0.0989	R 3 : 0.0949	R 3 : 0.0945
	R 4 : 0.0665	R 4 : 0.0632	R 4 : 0.0607
	R 5 : 0.0561	R 5 : 0.0440	R 5 : 0.0486
	R 6 : 0.0232	R 6 : 0.0207	R 6 : 0.0174
	Aile : 0.066	Aile : 0.059	Aile : 0.052
I = 0 M = 0.8	R 1 : 0.2400	R 1 : 0.2253	R 1 : 0.2034
	R 2 : 0.2545	R 2 : 0.2509	R 2 : 0.2128
	R 3 : 0.3082	R 3 : 0.2842	R 3 : 0.2488
	R 4 : 0.3755	R 4 : 0.3341	R 4 : 0.3026
	R 5 : 0.4150	R 5 : 0.3825	R 5 : 0.2853
	R 6 : 0.4162	R 6 : 0.3193	R 6 : 0.2555
	Aile : 0.353	Aile : 0.315	Aile : 0.263

"Aile" = wing

Figure 46

Use of the four base cases - Cz

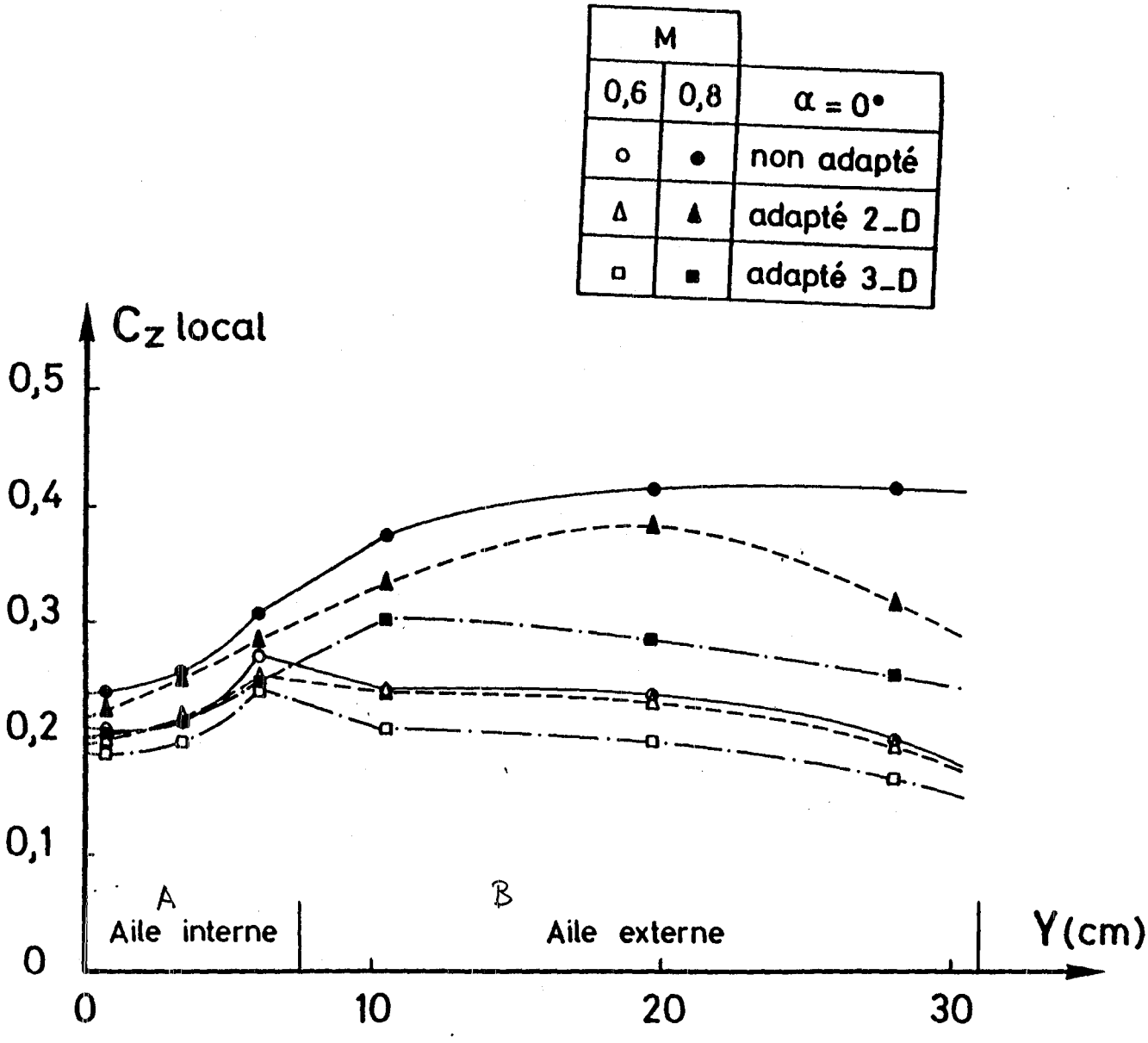


Key

A - Internal wing
B - External wing

Figure 47

Use of the four base cases - Cz

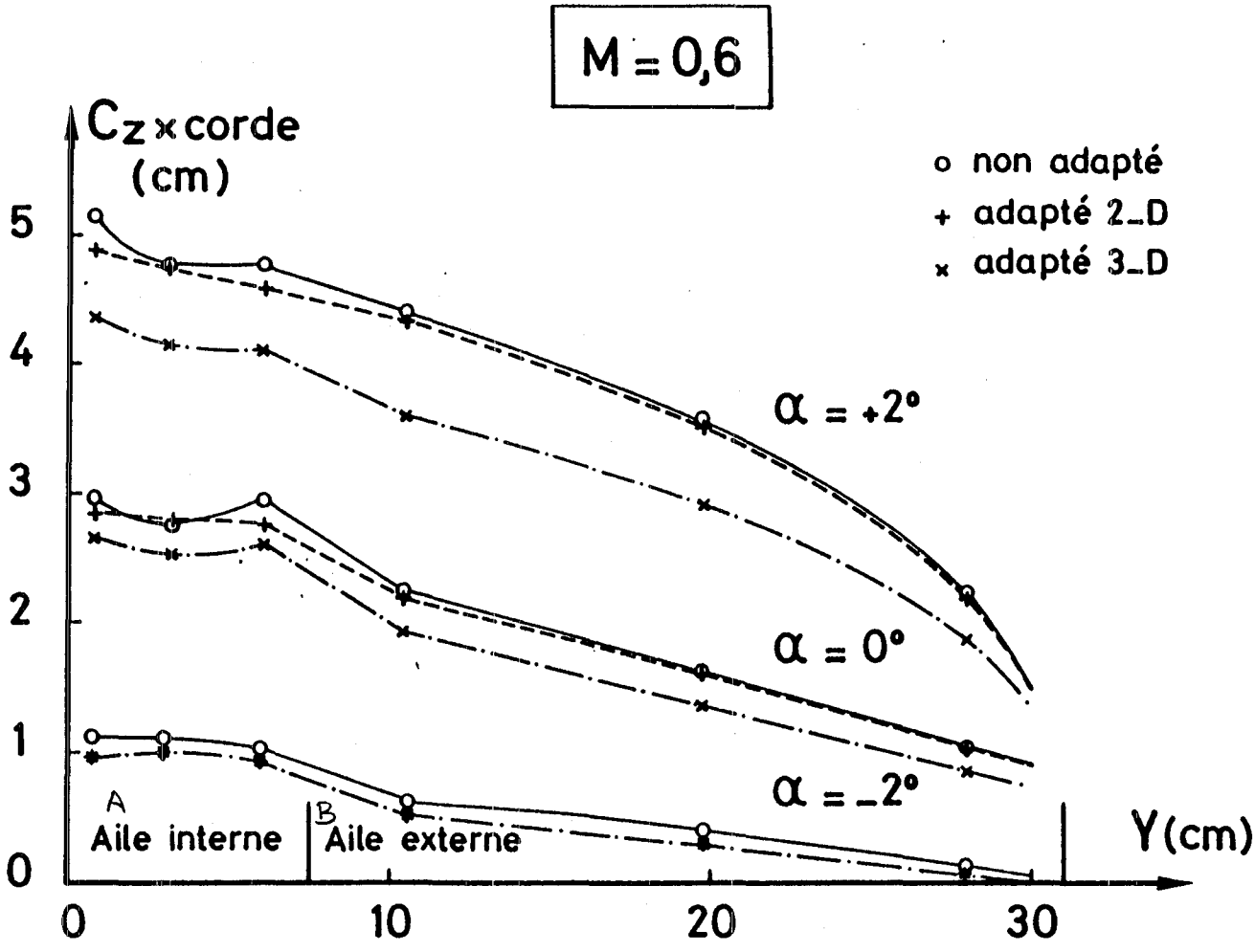


Key

A - Internal wing
B - External wing

Figure 48

Use of the four base cases - Cz

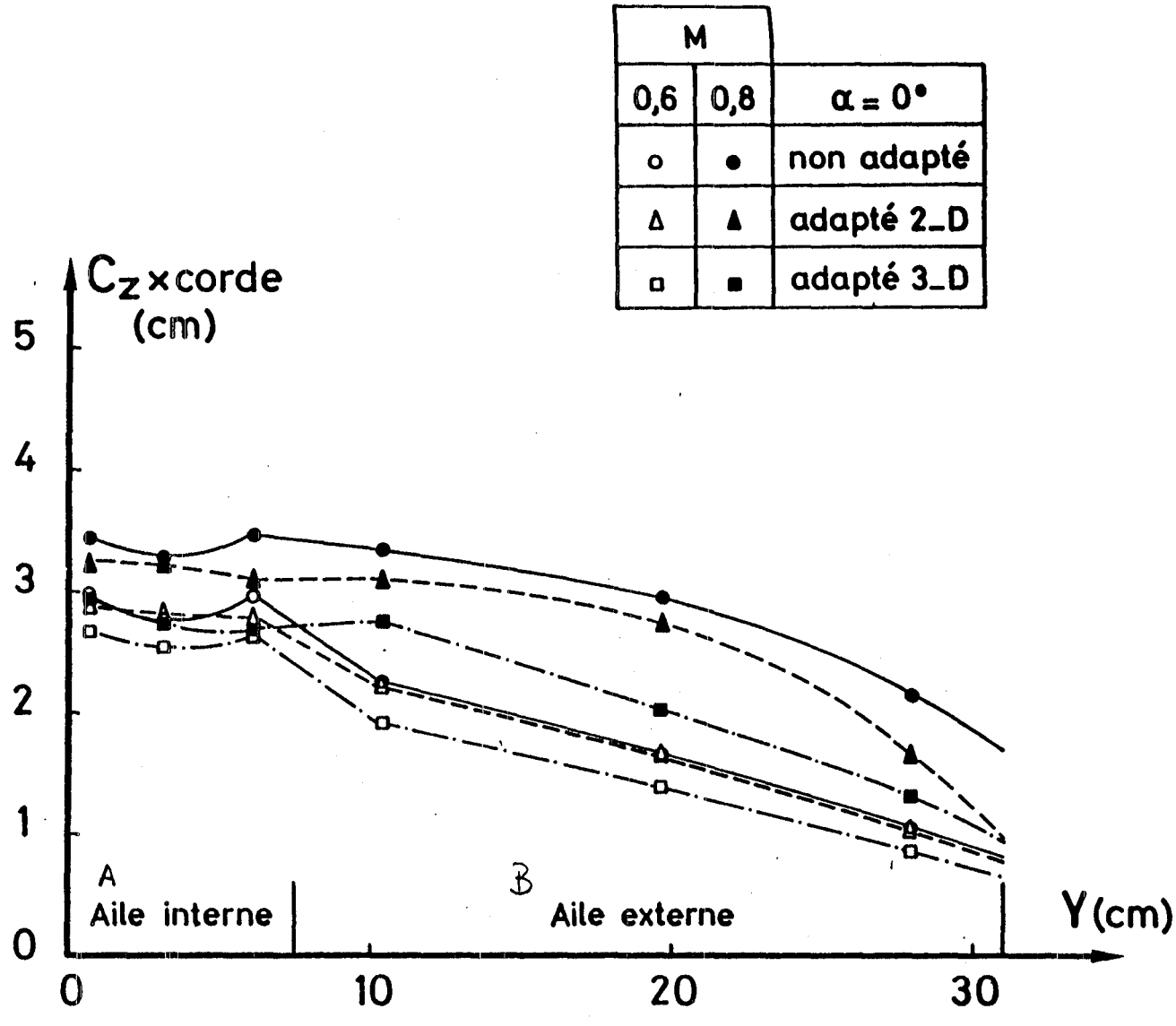


Key

A - Internal wing
B - External wing
C - Cz x chord

Figure 49

Use of the four base cases - Cz

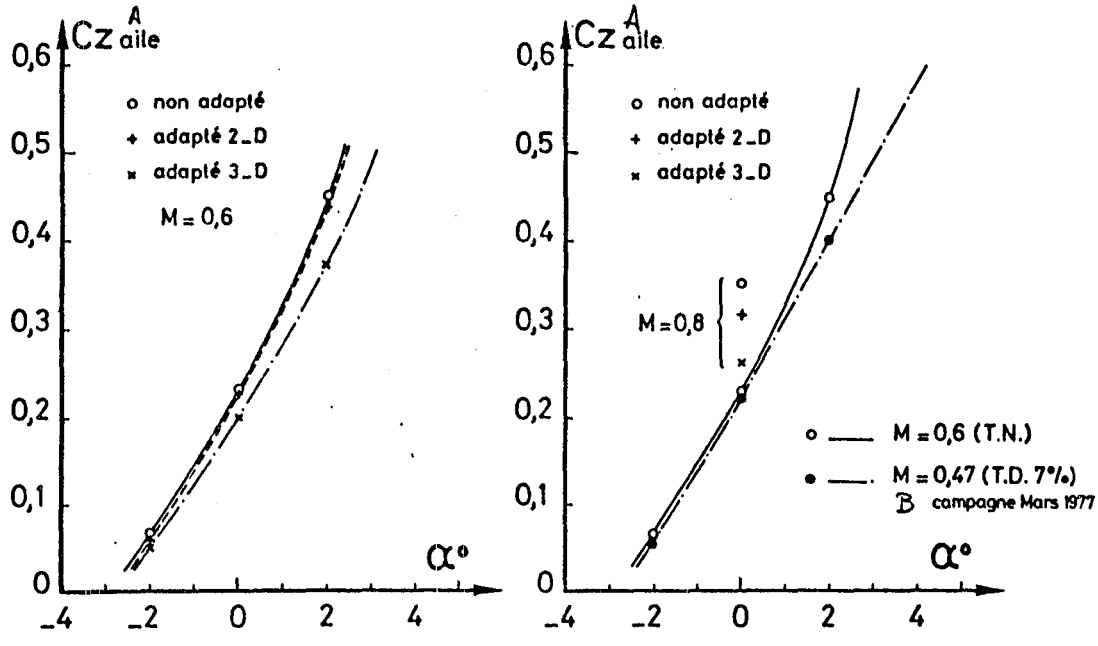


Key

A - Internal wing
B - External wing
C - Cz x chord

Figure 50

Use of the four base cases - Cz



Key

A - Wing
B - March 1977 series

Annex 1

Listing of Cz

Key

Fichier = File
Rangee = Row
Corde = Chord

```
*****FICHIER : AD105 ****  MACH = .702   INCIDENCE = 0.00  NON
* RANGEE : 2       CZ= 2.310E-01  CORDE*CZ= 2.963E+01
* RANGEE : 5       CZ= 2.790E-01  CORDE*CZ= 1.978E+01
**********

*****FICHIER : AD107 ****  MACH = .599   INCIDENCE = 0.00  NON
* RANGEE : 2       CZ= 2.154E-01  CORDE*CZ= 2.763E+01
* RANGEE : 5       CZ= 2.351E-01  CORDE*CZ= 1.667E+01
**********

*****FICHIER : AD108 ****  MACH = .801   INCIDENCE = 0.00  NON
* RANGEE : 2       CZ= 2.545E-01  CORDE*CZ= 3.264E+01
* RANGEE : 5       CZ= 4.150E-01  CORDE*CZ= 2.942E+01
**********

*****FICHIER : AD110 ****  MACH = .697   INCIDENCE =-2.00  NON
* RANGEE : 2       CZ= 6.918E-02  CORDE*CZ= 8.872E+00
* RANGEE : 5       CZ= 3.999E-02  CORDE*CZ= 2.835E+00
**********

*****FICHIER : AD115 ****  MACH = .702   INCIDENCE = 0.00  3D(1)
* RANGEE : 2       CZ= 2.063E-01  CORDE*CZ= 2.645E+01
* RANGEE : 5       CZ= 2.215E-01  CORDE*CZ= 1.570E+01
**********

*****FICHIER : AD116 ****  MACH = .701   INCIDENCE = 0.00  3D(2)
* RANGEE : 2       CZ= 2.050E-01  CORDE*CZ= 2.629E+01
* RANGEE : 5       CZ= 2.270E-01  CORDE*CZ= 1.610E+01
**********

*****FICHIER : AD117 ****  MACH = .598   INCIDENCE = 0.00  3D(1)
* RANGEE : 2       CZ= 1.984E-01  CORDE*CZ= 2.545E+01
* RANGEE : 5       CZ= 1.961E-01  CORDE*CZ= 1.390E+01
**********

*****FICHIER : AD118 ****  MACH = .806   INCIDENCE = 0.00  3D(1)
* RANGEE : 2       CZ= 2.070E-01  CORDE*CZ= 2.655E+01
* RANGEE : 5       CZ= 2.732E-01  CORDE*CZ= 1.937E+01
**********

*****FICHIER : AD119 ****  MACH = .805   INCIDENCE = 0.00  3D(2)
* RANGEE : 2       CZ= 2.128E-01  CORDE*CZ= 2.729E+01
* RANGEE : 5       CZ= 2.853E-01  CORDE*CZ= 2.023E+01
**********

*****FICHIER : AD120 ****  MACH = .599   INCIDENCE = 2.00  NON
* RANGEE : 2       CZ= 3.802E-01  CORDE*CZ= 4.876E+01
* RANGEE : 5       CZ= 5.198E-01  CORDE*CZ= 3.685E+01
**********

*****FICHIER : AD122 ****  MACH = .600   INCIDENCE = 2.00  NON
* RANGEE : 2       CZ= 3.726E-01  CORDE*CZ= 4.779E+01
* RANGEE : 5       CZ= 5.091E-01  CORDE*CZ= 3.609E+01
**********
```

```
*****FICHIER : AD123 ****  MACH = .600   INCIDENCE = 2.00  3D(1)
* RANGEE : 2      CZ= 3.229E-01  CORDE*CZ= 4.141E+01
* RANGEE : 5      CZ= 4.127E-01  CORDE*CZ= 2.926E+01
**********

*****FICHIER : AD124 ****  MACH = .703   INCIDENCE = 2.00  NON
* RANGEE : 2      CZ= 4.071E-01  CORDE*CZ= 5.221E+01
* RANGEE : 5      CZ= 6.103E-01  CORDE*CZ= 4.327E+01
**********

*****FICHIER : AD125 ****  MACH = .703   INCIDENCE = 2.00  3D(1)
* RANGEE : 2      CZ= 3.361E-01  CORDE*CZ= 4.310E+01
* RANGEE : 5      CZ= 4.750E-01  CORDE*CZ= 3.368E+01
**********

*****FICHIER : AD126 ****  MACH = .806   INCIDENCE = 2.00  NON
* RANGEE : 2      CZ= 5.214E-01  CORDE*CZ= 6.687E+01
* RANGEE : 5      CZ= 7.394E-01  CORDE*CZ= 5.242E+01
**********

*****FICHIER : AD127 ****  MACH = .806   INCIDENCE = 2.00  3D(1)
* RANGEE : 2      CZ= 3.792E-01  CORDE*CZ= 4.863E+01
* RANGEE : 5      CZ= 7.103E-01  CORDE*CZ= 5.036E+01
**********

*****FICHIER : AD128 ****  MACH = .806   INCIDENCE = 2.00  3D(2)
* RANGEE : 2      CZ= 4.116E-01  CORDE*CZ= 5.278E+01
* RANGEE : 5      CZ= 7.521E-01  CORDE*CZ= 5.333E+01
**********

*****FICHIER : AD129 ****  MACH = .806   INCIDENCE = 2.00  3D(3)
* RANGEE : 2      CZ= 3.977E-01  CORDE*CZ= 5.101E+01
* RANGEE : 5      CZ= 7.435E-01  CORDE*CZ= 5.272E+01
**********

*****FICHIER : AD130 ****  MACH = .707   INCIDENCE = 1.50  2D
* RANGEE : 2      CZ= 3.491E-01  CORDE*CZ= 4.477E+01
* RANGEE : 5      CZ= 4.996E-01  CORDE*CZ= 3.542E+01
**********

*****FICHIER : AD131 ****  MACH = .602   INCIDENCE = 1.50  2D
* RANGEE : 2      CZ= 3.210E-01  CORDE*CZ= 4.117E+01
* RANGEE : 5      CZ= 4.166E-01  CORDE*CZ= 2.954E+01
**********

*****FICHIER : AD134 ****  MACH = .809   INCIDENCE = 0.00  2D
* RANGEE : 2      CZ= 2.509E-01  CORDE*CZ= 3.217E+01
* RANGEE : 5      CZ= 3.825E-01  CORDE*CZ= 2.712E+01
**********

*****FICHIER : AD135 ****  MACH = .702   INCIDENCE = 0.00  2D
* RANGEE : 2      CZ= 2.384E-01  CORDE*CZ= 3.058E+01
* RANGEE : 5      CZ= 2.758E-01  CORDE*CZ= 1.956E+01
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*****FICHIER : AD136 ****  MACH = .597   INCIDENCE = 0.00  2D
* RANGEE : 2       CZ= 2.198E-01  CORDE*CZ= 2.819E+01
* RANGEE : 5       CZ= 2.337E-01  CORDE*CZ= 1.657E+01
**********

*****FICHIER : AD137 ****  MACH = .598   INCIDENCE = 0.00  NON
* RANGEE : 2       CZ= 2.260E-01  CORDE*CZ= 2.898E+01
* RANGEE : 5       CZ= 2.451E-01  CORDE*CZ= 1.738E+01
**********

*****FICHIER : AD138 ****  MACH = .599   INCIDENCE = 0.00  3D(1)
* RANGEE : 2       CZ= 2.004E-01  CORDE*CZ= 2.570E+01
* RANGEE : 5       CZ= 1.968E-01  CORDE*CZ= 1.395E+01
**********

*****FICHIER : AD139 ****  MACH = .804   INCIDENCE = 0.00  NON
* RANGEE : 2       CZ= 2.686E-01  CORDE*CZ= 3.445E+01
* RANGEE : 5       CZ= 4.513E-01  CORDE*CZ= 3.199E+01
**********

*****FICHIER : AD140 ****  MACH = .804   INCIDENCE = 0.00  3D(1)
* RANGEE : 2       CZ= 2.067E-01  CORDE*CZ= 2.651E+01
* RANGEE : 5       CZ= 2.645E-01  CORDE*CZ= 1.876E+01
**********

*****FICHIER : AD141 ****  MACH = .804   INCIDENCE = 0.00  3D(2)
* RANGEE : 2       CZ= 2.222E-01  CORDE*CZ= 2.850E+01
* RANGEE : 5       CZ= 2.991E-01  CORDE*CZ= 2.130E+01
**********

*****FICHIER : AD142 ****  MACH = .598   INCIDENCE =-2.00  NON
* RANGEE : 2       CZ= 8.875E-02  CORDE*CZ= 1.138E+01
* RANGEE : 5       CZ= 5.611E-02  CORDE*CZ= 3.978E+00
**********

*****FICHIER : AD143 ****  MACH = .598   INCIDENCE =-2.00  3D(1)
* RANGEE : 2       CZ= 7.990E-02  CORDE*CZ= 1.025E+01
* RANGEE : 5       CZ= 4.859E-02  CORDE*CZ= 3.445E+00
**********

*****FICHIER : AD144 ****  MACH = .596   INCIDENCE =-2.00  2D
* RANGEE : 2       CZ= 8.189E-02  CORDE*CZ= 1.050E+01
* RANGEE : 5       CZ= 4.395E-02  CORDE*CZ= 3.116E+00
**********

*****FICHIER : AD145 ****  MACH = .596   INCIDENCE = 2.00  2D
* RANGEE : 2       CZ= 3.687E-01  CORDE*CZ= 4.729E+01
* RANGEE : 5       CZ= 4.948E-01  CORDE*CZ= 3.508E+01
**********

*****FICHIER : AD146 ****  MACH = .594   INCIDENCE = 2.00  2D
* RANGEE : 1       CZ= 3.405E-01  CORDE*CZ= 4.872E+01
* RANGEE : 4       CZ= 4.715E-01  CORDE*CZ= 4.344E+01
**********
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*****FICHIER : AD147 ****  MACH = .593   INCIDENCE = 2.00  NON
* RANGEE : 1       CZ= 3.600E-01  CORDE*CZ= 5.151E+01
* RANGEE : 4       CZ= 4.740E-01  CORDE*CZ= 4.367E+01
**********

*****FICHIER : AD148 ****  MACH = .594   INCIDENCE = 2.00  3D(1)
* RANGEE : 1       CZ= 3.027E-01  CORDE*CZ= 4.332E+01
* RANGEE : 4       CZ= 3.861E-01  CORDE*CZ= 3.557E+01
**********

*****FICHIER : AD149 ****  MACH = .594   INCIDENCE = 0.00  2D
* RANGEE : 1       CZ= 1.995E-01  CORDE*CZ= 2.855E+01
* RANGEE : 4       CZ= 2.419E-01  CORDE*CZ= 2.228E+01
**********

*****FICHIER : AD150 ****  MACH = .595   INCIDENCE = 0.00  NON
* RANGEE : 1       CZ= 2.081E-01  CORDE*CZ= 2.978E+01
* RANGEE : 4       CZ= 2.418E-01  CORDE*CZ= 2.228E+01
**********

*****FICHIER : AD151 ****  MACH = .594   INCIDENCE = 0.00  3D(1)
* RANGEE : 1       CZ= 1.865E-01  CORDE*CZ= 2.669E+01
* RANGEE : 4       CZ= 2.076E-01  CORDE*CZ= 1.913E+01
**********

*****FICHIER : AD152 ****  MACH = .802   INCIDENCE = 0.00  2D
* RANGEE : 1       CZ= 2.253E-01  CORDE*CZ= 3.225E+01
* RANGEE : 4       CZ= 3.341E-01  CORDE*CZ= 3.078E+01
**********

*****FICHIER : AD153 ****  MACH = .803   INCIDENCE = 0.00  NON
* RANGEE : 1       CZ= 2.400E-01  CORDE*CZ= 3.434E+01
* RANGEE : 4       CZ= 3.755E-01  CORDE*CZ= 3.460E+01
**********

*****FICHIER : AD154 ****  MACH = .803   INCIDENCE = 0.00  3D(1)
* RANGEE : 1       CZ= 2.034E-01  CORDE*CZ= 2.911E+01
* RANGEE : 4       CZ= 3.026E-01  CORDE*CZ= 2.788E+01
**********

*****FICHIER : AD155 ****  MACH = .595   INCIDENCE =-2.00  2D
* RANGEE : 1       CZ= 6.814E-02  CORDE*CZ= 9.751E+00
* RANGEE : 4       CZ= 6.321E-02  CORDE*CZ= 5.824E+00
**********

*****FICHIER : AD156 ****  MACH = .596   INCIDENCE =-2.00  NON
* RANGEE : 1       CZ= 7.980E-02  CORDE*CZ= 1.142E+01
* RANGEE : 4       CZ= 6.654E-02  CORDE*CZ= 6.131E+00
**********

*****FICHIER : AD157 ****  MACH = .596   INCIDENCE =-2.00  3D(1)
* RANGEE : 1       CZ= 6.874E-02  CORDE*CZ= 9.836E+00
* RANGEE : 4       CZ= 6.066E-02  CORDE*CZ= 5.589E+00
**********
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*****FICHIER : AD158 ****  MACH = .595   INCIDENCE =-2.00  2D
* RANGEE : 3       CZ= 9.486E-02  CORDE*CZ= 1.030E+01
* RANGEE : 6       CZ= 2.071E-02  CORDE*CZ= 1.070E+00
**********

*****FICHIER : AD159 ****  MACH = .596   INCIDENCE =-2.00  NON
* RANGEE : 3       CZ= 9.893E-02  CORDE*CZ= 1.074E+01
* RANGEE : 6       CZ= 2.323E-02  CORDE*CZ= 1.200E+00
**********

*****FICHIER : AD160 ****  MACH = .596   INCIDENCE =-2.00  3D(1)
* RANGEE : 3       CZ= 9.454E-02  CORDE*CZ= 1.026E+01
* RANGEE : 6       CZ= 1.742E-02  CORDE*CZ= 8.998E-01
**********

*****FICHIER : AD161 ****  MACH = .597   INCIDENCE = 0.00  2D
* RANGEE : 3       CZ= 2.537E-01  CORDE*CZ= 2.754E+01
* RANGEE : 6       CZ= 1.926E-01  CORDE*CZ= 9.945E+00
**********

*****FICHIER : AD162 ****  MACH = .598   INCIDENCE = 0.00  NON
* RANGEE : 3       CZ= 2.711E-01  CORDE*CZ= 2.943E+01
* RANGEE : 6       CZ= 1.993E-01  CORDE*CZ= 1.029E+01
**********

*****FICHIER : AD163 ****  MACH = .598   INCIDENCE = 0.00  3D(1)
* RANGEE : 3       CZ= 2.411E-01  CORDE*CZ= 2.617E+01
* RANGEE : 6       CZ= 1.647E-01  CORDE*CZ= 8.506E+00
**********

*****FICHIER : AD164 ****  MACH = .807   INCIDENCE = 0.00  2D
* RANGEE : 3       CZ= 2.842E-01  CORDE*CZ= 3.085E+01
* RANGEE : 6       CZ= 3.193E-01  CORDE*CZ= 1.649E+01
**********

*****FICHIER : AD165 ****  MACH = .805   INCIDENCE = 0.00  NON
* RANGEE : 3       CZ= 3.082E-01  CORDE*CZ= 3.346E+01
* RANGEE : 6       CZ= 4.162E-01  CORDE*CZ= 2.150E+01
**********

*****FICHIER : AD166 ****  MACH = .804   INCIDENCE = 0.00  3D(1)
* RANGEE : 3       CZ= 2.488E-01  CORDE*CZ= 2.701E+01
* RANGEE : 6       CZ= 2.555E-01  CORDE*CZ= 1.320E+01
**********

*****FICHIER : AD167 ****  MACH = .599   INCIDENCE = 2.00  NON
* RANGEE : 3       CZ= 4.388E-01  CORDE*CZ= 4.763E+01
* RANGEE : 6       CZ= 4.348E-01  CORDE*CZ= 2.246E+01
**********

*****FICHIER : AD168 ****  MACH = .599   INCIDENCE = 2.00  3D(1)
* RANGEE : 3       CZ= 3.752E-01  CORDE*CZ= 4.074E+01
* RANGEE : 6       CZ= 3.658E-01  CORDE*CZ= 1.889E+01
**********

*****FICHIER : AD169 ****  MACH = .599   INCIDENCE = 2.00  2D
* RANGEE : 3       CZ= 4.237E-01  CORDE*CZ= 4.600E+01
* RANGEE : 6       CZ= 4.250E-01  CORDE*CZ= 2.195E+01
**********
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Annex 2

Listing of Adaptable Wall Shapes

Listing of adaptable wall shapes (rows 2-5)

ADAPT.	FORME DEPART	MACH 0,6	MACH 0,8	INCIDENCE
NON	AD445	122		
2-D		145		+2
3-D	AD9122	123		
NON	AD4 AD4	107	108	
2-D		136	134	0
3-D	AD9107 AD9118	117	119	
NON	AD4	142		
2-D		144		-2
3-D	AD9142	143		

Forme depart = Beginning shape

File: AD136
Lines of current (mm)

N	Abac.	IZ L.C.Haut	IZ L.C.Bas
1	-800.1	0.00	0.00
2	-754.7	.07	.04
3	-711.4	.14	.09
4	-670.0	.22	.14
5	-630.4	.30	.19
6	-592.6	.39	.23
7	-556.5	.48	.28
8	-522.0	.57	.32
9	-489.0	.67	.35
10	-457.6	.78	.38
11	-427.5	.90	.40
12	-398.7	1.04	.42
13	-371.2	1.19	.46
14	-345.0	1.32	.49
15	-319.9	1.46	.51
16	-295.9	1.59	.52
17	-273.0	1.72	.52
18	-251.2	1.84	.52
19	-230.3	1.98	.53
20	-210.3	2.11	.54
21	-191.2	2.26	.57
22	-174.4	2.40	.60
23	-159.3	2.52	.62
24	-145.6	2.63	.63
25	-132.8	2.72	.62
26	-120.9	2.81	.61
27	-109.7	2.89	.60
28	-99.08	2.97	.59
29	-88.89	3.05	.59
30	-79.09	3.14	.59
31	-69.60	3.20	.58
32	-60.39	3.27	.57
33	-51.39	3.34	.56
34	-42.57	3.39	.55
35	-33.89	3.43	.55
36	-25.33	3.47	.55
37	-16.84	3.49	.54
38	-8.41	3.51	.53
39	0.00	3.51	.52
40	8.41	3.51	.52
41	16.84	3.51	.52
42	25.33	3.51	.52
43	33.89	3.51	.52
44	42.57	3.50	.53
45	51.39	3.49	.53
46	60.39	3.49	.53
47	69.60	3.46	.54
48	79.09	3.43	.54
49	88.89	3.38	.54
50	99.08	3.33	.53
51	109.71	3.27	.53
52	120.94	3.18	.52
53	132.83	3.08	.52
54	145.56	2.97	.51
55	159.33	2.86	.49
56	174.43	2.75	.48
57	191.23	2.67	.47
58	210.31	2.57	.46
59	230.27	2.45	.45
60	251.17	2.31	.44
61	273.05	2.15	.44
62	295.94	1.99	.44
63	319.90	1.84	.43
64	344.98	1.70	.43
65	371.23	1.55	.43
66	398.70	1.40	.41
67	427.46	1.25	.38
68	457.55	1.11	.36
69	489.05	.99	.33
70	522.01	.87	.30

File: AD134
Lines of current (mm)

N	Abac.	IZ L.C.Haut	IZ L.C.Bas
1	-800.1	0.00	0.00
2	-754.7	.06	.03
3	-711.4	.13	.07
4	-670.0	.20	.10
5	-630.4	.28	.14
6	-592.6	.36	.17
7	-556.5	.45	.20
8	-522.0	.54	.23
9	-489.0	.63	.26
10	-457.6	.74	.28
11	-427.5	.85	.30
12	-398.7	.97	.31
13	-371.2	1.11	.33
14	-345.0	1.27	.34
15	-319.9	1.43	.35
16	-295.9	1.60	.35
17	-273.0	1.76	.35
18	-251.2	1.91	.35
19	-230.3	2.07	.35
20	-210.3	2.24	.35
21	-191.2	2.42	.35
22	-174.4	2.60	.35
23	-159.3	2.75	.35
24	-145.6	2.88	.35
25	-132.8	3.00	.34
26	-120.9	3.09	.32
27	-109.7	3.18	.29
28	-99.08	3.27	.27
29	-88.89	3.37	.25
30	-79.09	3.48	.23
31	-69.60	3.59	.21
32	-60.39	3.68	.18
33	-51.39	3.78	.14
34	-42.57	3.86	.12
35	-33.89	3.92	.10
36	-25.33	3.99	.08
37	-16.84	4.02	.07
38	-8.41	4.05	.05
39	0.00	4.07	.04
40	8.41	4.08	.04
41	16.84	4.09	.05
42	25.33	4.09	.06
43	33.89	4.09	.06
44	42.57	4.09	.10
45	51.39	4.08	.12
46	60.39	4.06	.15
47	69.60	4.04	.17
48	79.09	3.99	.20
49	88.89	3.92	.22
50	99.08	3.85	.23
51	109.73	3.76	.24
52	120.94	3.65	.25
53	132.83	3.53	.25
54	145.56	3.41	.25
55	159.33	3.29	.26
56	174.43	3.19	.26
57	191.23	3.09	.26
58	210.31	2.97	.27
59	230.27	2.83	.27
60	251.17	2.66	.27
61	273.05	2.48	.27
62	295.94	2.31	.26
63	319.90	2.17	.25
64	344.98	2.03	.25
65	371.23	1.91	.24
66	398.70	1.81	.19
67	427.46	1.71	.14
68	457.55	1.60	.10
69	489.05	1.50	.06
70	522.01	1.40	.02

Key: Haut = high
Bas = low

File: AD144
Lines of current (mm)

N	Absc.	IZ L.C.Haut	IZ L.C.Bas
1	-900.1	0.00	0.00
2	-754.7	.02	0.00
3	-711.4	.05	.01
4	-670.0	.08	.01
5	-630.4	.11	.01
6	-592.6	.15	.01
7	-556.5	.19	.01
8	-522.0	.24	0.00
9	-489.0	.29	0.00
10	-457.6	.35	-.02
11	-427.5	.42	-.04
12	-398.7	.50	-.07
13	-371.2	.59	-.09
14	-345.0	.68	-.11
15	-319.9	.79	-.15
16	-295.9	.89	-.19
17	-273.0	.98	-.23
18	-251.2	1.05	-.27
19	-230.3	1.13	-.31
20	-210.3	1.21	-.35
21	-191.2	1.30	-.38
22	-174.4	1.40	-.40
23	-159.3	1.49	-.42
24	-145.6	1.56	-.45
25	-132.9	1.63	-.49
26	-120.9	1.69	-.53
27	-109.7	1.75	-.56
28	-99.08	1.81	-.60
29	-88.89	1.87	-.63
30	-79.09	1.94	-.65
31	-69.60	2.00	-.68
32	-60.39	2.07	-.71
33	-51.39	2.13	-.74
34	-42.57	2.19	-.77
35	-33.89	2.22	-.78
36	-25.33	2.26	-.78
37	-16.84	2.29	-.79
38	-8.41	2.30	-.80
39	0.00	2.31	-.80
40	8.41	2.32	-.79
41	16.84	2.32	-.79
42	25.33	2.33	-.78
43	33.89	2.34	-.75
44	42.57	2.35	-.73
45	51.39	2.35	-.71
46	60.39	2.35	-.68
47	69.60	2.35	-.66
48	79.09	2.33	-.63
49	88.89	2.31	-.60
50	99.08	2.28	-.58
51	109.73	2.24	-.55
52	120.94	2.19	-.51
53	132.83	2.11	-.48
54	145.56	2.02	-.44
55	159.33	1.94	-.41
56	174.43	1.87	-.37
57	191.23	1.80	-.34
58	210.31	1.73	-.31
59	230.27	1.65	-.28
60	251.17	1.56	-.25
61	273.05	1.49	-.21
62	295.94	1.39	-.16
63	319.90	1.31	-.11
64	344.98	1.22	-.03
65	371.23	1.12	.03
66	398.70	1.02	.09
67	427.46	.92	.13
68	457.55	.82	.17
69	489.05	.74	.20
70	522.01	.66	.23

File: AD145
Lines of current (mm)

N	Absc.	IZ L.C.Haut	IZ L.C.Bas
1	-900.1	0.00	0.00
2	-754.7	.12	.10
3	-711.4	.25	.21
4	-670.0	.38	.32
5	-630.4	.51	.42
6	-592.6	.65	.53
7	-556.5	.80	.63
8	-522.0	.95	.73
9	-489.0	1.10	.83
10	-457.6	1.27	.92
11	-427.5	1.44	1.00
12	-398.7	1.61	1.06
13	-371.2	1.80	1.14
14	-345.0	1.99	1.22
15	-319.9	2.20	1.30
16	-295.9	2.42	1.38
17	-273.0	2.62	1.45
18	-251.2	2.80	1.51
19	-230.3	2.98	1.5
20	-210.3	3.17	1.64
21	-191.2	3.38	1.75
22	-174.4	3.57	1.81
23	-159.3	3.75	1.88
24	-145.6	3.89	1.92
25	-132.9	4.01	1.94
26	-120.9	4.11	1.94
27	-109.7	4.22	1.94
28	-99.08	4.42	1.95
29	-88.89	4.41	1.97
30	-79.09	4.51	1.99
31	-69.60	4.60	2.01
32	-60.39	4.69	2.03
33	-51.39	4.76	2.04
34	-42.57	4.83	2.05
35	-33.89	4.88	2.05
36	-25.33	4.93	2.07
37	-16.84	4.96	2.07
38	-8.41	4.96	2.06
39	0.00	5.00	2.05
40	8.41	5.00	2.05
41	16.84	5.00	2.04
42	25.33	5.00	2.03
43	33.89	5.00	2.02
44	42.57	5.00	2.02
45	51.39	4.99	2.01
46	60.39	4.97	2.00
47	69.60	4.94	1.99
48	79.09	4.90	1.96
49	88.89	4.83	1.94
50	99.08	4.76	1.91
51	109.73	4.67	1.88
52	120.94	4.55	1.84
53	132.83	4.41	1.80
54	145.56	4.27	1.76
55	159.33	4.13	1.72
56	174.43	3.99	1.68
57	191.23	3.85	1.63
58	210.31	3.70	1.59
59	230.27	3.53	1.53
60	251.17	3.34	1.49
61	273.05	3.13	1.43
62	295.94	2.91	1.36
63	319.90	2.69	1.29
64	344.98	2.47	1.24
65	371.23	2.24	1.19
66	398.70	2.02	1.14
67	427.46	1.81	1.09
68	457.55	1.60	1.03
69	489.05	1.41	.96
70	522.01	1.23	.88

Key: Haut = high
Bas = low

Fichier : AD142
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.24	-.34
2	-575.0	.66	-.72
3	-460.0	1.13	-1.00
4	-355.0	1.45	-1.42
5	-275.0	1.69	-1.70
6	-215.0	1.76	-1.87
7	-155.0	1.98	-2.11
8	-95.02	2.24	-2.13
9	-35.02	2.41	-2.40
10	24.98	2.46	-2.64
11	84.98	2.59	-2.69
12	144.98	2.82	-2.83
13	204.98	3.07	-3.05
14	284.98	3.16	-3.23
15	389.98	3.43	-3.62
16	504.98	3.79	-3.83

M = 0,6
$\alpha = -2°$

Non adapté

Fichier : AD144
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.37	-.21
2	-575.0	.97	-.70
3	-460.0	1.39	-1.11
4	-355.0	2.09	-1.48
5	-275.0	2.55	-1.94
6	-215.0	3.06	-2.29
7	-155.0	3.46	-2.52
8	-95.02	3.92	-2.77
9	-35.02	4.51	-3.06
10	24.98	4.79	-3.29
11	84.98	4.91	-3.35
12	144.98	4.91	-3.48
13	204.98	4.82	-3.49
14	284.98	4.78	-3.56
15	389.98	4.64	-3.59
16	504.98	4.77	-3.78

Fichier : AD143
Cotes des parois (mm)

N	Absc	Z Pl.Haut	Z Pl.Bas
1	-705.0	.45	-.40
2	-575.0	.83	-.70
3	-460.0	1.25	-1.00
4	-355.0	1.86	-1.43
5	-275.0	2.32	-1.71
6	-215.0	2.82	-2.07
7	-155.0	3.23	-2.49
8	-95.02	3.67	-2.96
9	-35.02	3.89	-3.23
10	24.98	4.12	-3.47
11	84.98	4.06	-3.53
12	144.98	4.05	-3.64
13	204.98	3.72	-3.68
14	284.98	3.48	-3.68
15	389.98	2.87	-3.72
16	504.98	2.34	-3.87

Key

Fichier = File
Cotes des parois =
Wall specifications
Haut = High
Bas = Low

Fichier : AD107
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.24	-.26
2	-575.0	.63	-.66
3	-460.0	1.05	-.98
4	-355.0	1.45	-1.45
5	-275.0	1.69	-1.73
6	-215.0	1.89	-1.88
7	-155.0	1.98	-1.94
8	-95.02	2.23	-2.13
9	-35.02	2.43	-2.41
10	24.98	2.50	-2.46
11	84.98	2.79	-2.56
12	144.98	2.83	-2.90
13	204.98	3.08	-3.11
14	294.93	3.23	-3.26
15	389.98	3.53	-3.55
16	504.98	3.89	-3.93

M
r

Non adapté

Fichier : AD136
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.39	-.21
2	-575.0	1.19	-.51
3	-460.0	1.82	-.72
4	-355.0	2.71	-1.03
5	-275.0	3.38	-1.12
6	-215.0	3.80	-1.29
7	-155.0	4.48	-1.50
8	-95.02	5.13	-1.70
9	-35.02	5.77	-1.91
10	24.98	6.04	-2.04
11	84.98	6.02	-2.27
12	144.98	5.80	-2.43
13	204.98	5.54	-2.60
14	294.98	5.42	-2.94
15	389.98	5.18	-3.21
16	504.98	4.82	-3.50

2-D

Fichier : AD117
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.44	-.25
2	-575.0	.84	-.66
3	-460.0	1.26	-1.00
4	-355.0	1.86	-1.25
5	-275.0	2.31	-1.56
6	-215.0	2.82	-2.07
7	-155.0	3.23	-2.36
8	-95.02	3.59	-2.77
9	-35.02	3.89	-3.24
10	24.98	3.74	-3.70
11	84.98	3.45	-4.14
12	144.98	3.03	-4.63
13	204.98	2.47	-5.11
14	294.98	1.65	-5.70
15	389.98	.56	-6.47
16	504.98	-.58	-7.38

3-D

Key

Fichier = File
Cotes des parois =
  Wall specifications
Haut = High
Bas = Low

Fichier : AD122
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	1.67	.76
2	-575.0	3.15	1.60
3	-460.0	4.55	2.30
4	-355.0	5.82	2.88
5	-275.0	6.70	3.43
6	-215.0	7.42	3.76
7	-155.0	8.05	4.11
8	-95.02	8.70	4.33
9	-35.02	9.52	4.83
10	24.98	10.22	5.03
11	84.98	10.96	5.44
12	144.98	11.58	5.87
13	204.98	12.28	6.18
14	264.98	13.25	6.66
15	389.98	14.37	7.21
16	504.98	15.71	7.79

M = 0,6
$\alpha = +2°$

Non adapté

Fichier : AD145
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.65	.02
2	-575.0	1.50	-.16
3	-460.0	2.38	-.29
4	-355.0	3.33	-.23
5	-275.0	4.19	-.26
6	-215.0	4.92	-.23
7	-155.0	5.74	-.27
8	-95.02	6.41	-.27
9	-35.02	7.20	-.34
10	24.98	7.42	-.58
11	84.98	7.44	-.91
12	144.98	7.21	-1.24
13	204.98	6.85	-1.55
14	264.98	6.37	-1.90
15	389.98	5.75	-2.36
16	504.98	5.30	-2.95

2-D

Fichier : AD123
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	1.98	.95
2	-575.0	3.13	1.62
3	-460.0	4.54	2.32
4	-355.0	6.02	2.97
5	-275.0	7.12	3.23
6	-215.0	8.03	3.35
7	-155.0	8.89	3.50
8	-95.02	9.74	3.50
9	-35.02	10.16	3.20
10	24.98	10.41	2.99
11	84.98	10.16	2.76
12	144.98	9.93	2.43
13	204.98	9.58	2.17
14	294.98	8.92	1.42
15	389.98	7.50	1.02
16	504.98	6.55	.75

3-D

Key

Fichier = File
Cotes des parois =
  Wall specifications
Haut = High
Bas = Low

Fichier : AD108
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.23	-.26
2	-575.0	.63	-.66
3	-460.0	1.04	-.99
4	-355.0	1.46	-1.45
5	-275.0	1.69	-1.74
6	-215.0	1.89	-1.88
7	-155.0	1.97	-1.94
8	-95.02	2.22	-2.13
9	-35.02	2.43	-2.40
10	24.98	2.50	-2.46
11	84.98	2.79	-2.67
12	144.98	2.82	-2.89
13	204.98	3.08	-3.11
14	284.98	3.23	-3.27
15	389.98	3.52	-3.55
16	504.98	4.00	-3.83

M = 0,8
α = 0°

Non adapté

Fichier : AD134
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.42	-.26
2	-575.0	1.21	-.54
3	-460.0	1.33	-.77
4	-355.0	2.52	-1.09
5	-275.0	3.35	-1.30
6	-215.0	4.03	-1.44
7	-155.0	4.63	-1.69
8	-95.02	5.11	-1.91
9	-35.02	5.13	-2.19
10	24.98	5.44	-2.43
11	84.98	5.57	-2.48
12	144.98	5.34	-2.63
13	204.98	5.01	-2.84
14	284.98	5.74	-3.03
15	389.98	5.55	-3.40
16	504.98	5.47	-3.91

2-D

Fichier : AD119
Cotes des parois (mm)

N	Absc.	Z Pl.Haut	Z Pl.Bas
1	-705.0	.44	-.51
2	-575.0	.67	-.89
3	-460.0	1.47	-1.39
4	-355.0	2.06	-1.84
5	-275.0	2.53	-2.33
6	-215.0	3.01	-2.88
7	-155.0	3.64	-3.36
8	-95.02	4.11	-3.98
9	-35.02	4.51	-4.52
10	24.98	4.96	-4.93
11	84.98	4.25	-5.39
12	144.98	3.65	-5.60
13	204.98	3.08	-6.11
14	284.98	2.37	-6.71
15	389.98	1.26	-7.60
15	504.98	.45	-8.68

3-D

Key

Fichier = File
Cotes des parois =
  Wall specifications
Haut = High
Bas = Low

Listing of Test Files

Key to Annex 3

Fichier = File
Parois rectilingues = Rectilinear walls
Symetriques = Symmetrical

Page format:

MACH HIGH AND LOW WALLS MACH LATERAL WALLS AS07 WING

I HIGH LOW I HIGH LOW I MACH I MACH I MACH

DBL. RECORDERS UPSTM PTHOLE

LFT. LAT. RECORDERS

DNSTRM PTHOLE RT. PTHOLE

RT. LAT. RECORDERS

LFT. PTHOLE

NECK RECORDERS

LISTE DES ESSAIS "AILE AS07"

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*************************************************************************
* FICHIER    AD4    : PAROIS RECTILIGNES DIVERGENTES                    *
*            AD445  :       IDEM     +  ROTATION DE 30' (VERS LE HAUT)  *
*            AD___  :              : FICHIER DE L'ESSAI  N =___          *
*            AD9____: CALCUL 3-D DE LA NOUVELLE POSITION DES PAROIS     *
*************************************************************************
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FICHIER	INC. AFF.	MACH	RANGEES DE PRISES	FICHIER DE DEPART	ROT. PAROIS	ADAPT.	NB. D'ITER.
AD105	0	.7	2 - 5	AD4	0	NON	1
AD107	0	.6	"	"	0	"	1
AD108	0	.8	"	"	0	"	1
AD110	-2	.7	"	"	0	"	1
AD115	0	.7	"	AD9105	0	3-D (1)	1
AD116	0	.7	"	AD9115	0	3-D (2)	1
AD117	0	.6	"	AD9107	0	3-D	1
AD118	0	.8	"	AD9108	0	3-D (1)	1
AD119	0	.8	"	AD9118	0	3-D (2)	1
AD120	+2	.6	"	AD4	0	NON	1
AD122	+1.5	.6	"	AD445	30'	NON	1
AD123	+1.5	.6	"	AD9122	30'	3-D	1
AD124	+1.5	.7	"	AD445	30'	NON	1
AD125	+1.5	.7	"	AD9124	30'	3-D	1
AD126	+1.5	.8	"	AD445	30'	NON	1
AD127	+1.5	.8	"	AD9126	30'	3-D (1)	1
AD128	+1.5	.8	"	AD9127	30'	3-D (2)	1
AD129	+1.5	.8	"	AD9128	30'	3-D (3)	1
AD130	+1.5	.7	"	AD4	0	2-D	4
AD131	+1.5	.6	"	AD130	0	2-D	4
AD133	0	.8	"	AD4	0	2-D	4
AD134	0	.8	"	AD133	0	2-D	4
AD135	0	.7	"	AD134	0	2-D	4
AD136	0	.6	"	AD135	0	2-D	4
AD137	-0.5	.6	"	AD445	30'	NON	1
AD138	-0.5	.6	"	AD9137	30'	3-D	1
AD139	-0.5	.8	"	AD445	30'	NON	1
AD140	-0.5	.8	"	AD9139	30'	3-D (1)	1
AD141	-0.5	.8	"	AD9140	30'	3-D (2)	1
AD142	-2	.6	"	AD4	0	NON	1
AD143	-2	.6	"	AD9142	0	3-D	1
AD144	-2	.6	"	AD136	0	2-D	4
AD145	+2	.6	"	AD131	0	2-D	4
AD146	+2	.6	1 - 4	AD145	0	2-D	4
AD147	+1.5	.6	"	AD445	30'	NON	1
AD148	+1.5	.6	"	AD9122	30'	3-D	1
AD149	0	.6	"	AD136	0	2-D	4
AD150	0	.6	"	AD4	0	NON	1
AD151	0	.6	"	AD9107	0	3-D	1
AD152	0	.8	"	AD134	0	2-D	4
AD153	0	.8	"	AD4	0	NON	1
AD154	0	.8	"	AD9118	0	3-D	1
AD155	-2	.6	"	AD144	0	2-D	4
AD156	-2	.6	"	AD4	0	NON	1
AD157	-2	.6	"	AD9142	0	3-D	1
AD158	-2	.6	3 - 6	AD144	0	2-D	4
AD159	-2	.6	"	AD4	0	NON	1
AD160	-2	.6	"	AD9142	0	3-D	1
AD161	0	.6	"	AD136	0	2-D	4
AD162	0	.6	"	AD4	0	NON	1
AD163	0	.6	"	AD9107	0	3-D	1
AD164	0	.8	"	AD134	0	2-D	4
AD165	0	.8	"	AD4	0	NON	1
AD166	0	.8	"	AD9118	0	3-D	1
AD167	+1.5	.6	"	AD445	30'	NON	1
AD168	+1.5	.6	"	AD9122	30'	3-D	1
AD169	+2	.6	"	AD145	0	2-D	4

```
**************************   FICHIER AD105      NOCIT=  1
14/ 8/85 11H40 AS07 M=.7 I=0 R 2-5 NON ADAPTE AD105
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .7019      UINF=  231.108 M/S
                    TIV=299.6 K      PIV=  1557 MB
*******************************************************************************
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH	I	MAC
1	.702	.701	PRISES DOUBLES				HUB. AMONT		33	.715	1	
2	.702	.706							34	.714	2	.65
3	.701	.702		59	.701	.701	1	.702	35	.713	3	
4	.700	.701		60	.703	.704	2	.702	36	.712	4	
5	.700	.702		61	.706	.705	3	.701	37	.712	5	
6	.702	.703					4	.701	38	.712	6	
7	.702	.702	PRISES LAT. GAUCHES				5	.701	39	.713	7	
8	.704	.702					6	.701	40	.714	8	
9	.703	.705		62	.700	.703	7	.701	41	.715	9	
10	.703	.700		63	.701	.707	8	.701	42	.714	10	
11	.700	.701		64	.708	.707	9	.701	43	.712	11	
12	.698	.701		65	.709	.706	10	.701	44	.712	12	
13	.699	.700		66	.717	.709	11	.702	45	.711	13	
14	.700	.702		67	.725	.710					14	
15	.701	.703		68	.729	.713	HUB. AVAL		HUB. DROIT		15	
16	.703	.703		69	.730	.716					16	
17	.705	.703		70	.727	.711	1	.709	1	.702	17	
18	.708	.703		71	.715	.708	2	.709	2	.702	18	
19	.707	.703		72	.711	.709	3	.708	3	.701	19	
20	.707	.705		73	.698	.710	4	.711	4	.700	20	
21	.709	.706					5	.709	5	.700	21	
22	.716	.707	PRISES LAT. DROITES				6	.708	6	.700	22	
23	.719	.706					7	.708	7	.702	23	
24	.719	.709		74	.701	.704	8	.708	8	.702	24	
25	.721	.711		75	.701	.702	9	.709	9	.702	25	
26	.721	.710		76	.702	.701	10	.707	10	.702	26	
27	.726	.708		77	.700	.699	11	.708	11	.702	27	
28	.729	.711		78	.703	.700			12	.702	28	
29	.734	.711		79	.705	.699	HUB. GAUCHE		13	.702	29	
30	.731	.711		80	.715	.704			14	.702	30	
31	.737	.708		81	.724	.707	1	.728	15	.702	31	
32	.735	.713		82	.725	.710	2	.726	16	.702	32	
33	.738	.714		83	.732	.710	3	.724	17	.702	33	
34	.735	.713		84	.742	.710	4	.714	18	.703	34	
35	.738	.715		85	.745	.713	5	.716	19	.702	35	
36	.735	.715		86	.743	.715	6	.720	20	.702	36	
37	.736	.714		87	.742	.715	7	.723	21	.702	37	
38	.734	.714		88	.740	.714	8	.725	22	.702	38	
39	.735	.713		89	.736	.712	9	.725	23	.702	39	
40	.730	.712		90	.729	.711	10	.723	24	.702	40	
41	.729	.711		91	.725	.709	11	.722	25	.702	41	
42	.729	.710		92	.717	.708	12	.722	26	.702	42	
43	.729	.709		93	.709	.707	13	.720	27	.702	43	
44	.724	.708		94	.712	.706	14	.719	28	.703	44	
45	.722	.707		95	.705	.695	15	.713	29	.702	45	
46	.719	.708		96	.698	.692	16	.712	30	.703	46	
47	.718	.708					17	.712	31	.702	47	
48	.715	.709					18	.713	32	.702	48	
49	.714	.708					19	.713	33	.702	49	
50	.711	.708					20	.714	34	.702	50	
51	.712	.708					21	.715	35	.703		
52	.707	.706	PRISES COL				22	.716	36	.703		
53	.707	.706					23	.714	37	.703		
54	.707	.706			.764	1.155	24	.719	38	.702		
55	.706	.704			.818	1.250	25	.720	39	.702		
56	.703	.701			.874	.941	26	.722	40	.702		
57	.700	.698			.931	.795	27	.725	41	.702		
58	.695	.687			1.099	.736	28	.726	42	.702		
							29	.723	43	.702		
							30	.718	44	.703		
							31	.716	45	.702		
							32	.715				

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**************************   FICHIER AD107      N0(IT)=  1
14 8 85 11H55 AS07 M=.6  I=0 R 2-5 NON ADAPTE AD107
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
--------------------------------------------------------------------------------
       MACH DE REFERENCE= .5988      UINF=  231.108 M/S
                    TIV=296.8 K       PIV=  1534 MB
********************************************************************************
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.599	.598	PRISES DOUBLES			HUB. AMONT		33	.605	1	.578
2	.599	.602						34	.605	2	.593
3	.599	.599	59	.598	.597	1	.598	35	.604	3	.605
4	.597	.597	60	.599	.600	2	.598	36	.604	4	.608
5	.597	.598	61	.599	.601	3	.598	37	.604	5	.602
6	.599	.600				4	.598	38	.604	6	.652
7	.599	.599	PRISES LAT. GAUCHES			5	.597	39	.604	7	.612
8	.599	.598				6	.597	40	.605	8	.598
9	.600	.601	62	.598	.600	7	.597	41	.605	9	.345
10	.600	.597	63	.604	.603	8	.597	42	.605	10	.885
11	.597	.598	64	.603	.601	9	.598	43	.603	11	.839
12	.596	.599	65	.603	.600	10	.598	44	.602	12	.779
13	.597	.598	66	.608	.601	11	.599	45	.602	13	.747
14	.598	.600	67	.613	.601					14	.735
15	.599	.600	68	.616	.603	HUB. AVAL		HUB. DROIT		15	.725
16	.600	.599	69	.616	.606					16	.714
17	.601	.599	70	.615	.603	1	.602	1	.599	17	.711
18	.603	.599	71	.606	.601	2	.602	2	.599	18	.711
19	.602	.599	72	.603	.602	3	.603	3	.599	19	.706
20	.603	.600	73	.590	.606	4	.605	4	.599	20	.704
21	.603	.600				5	.603	5	.599	21	.694
22	.608	.601	PRISES LAT. DROITES			6	.603	6	.599	22	.691
23	.611	.600				7	.603	7	.599	23	.682
24	.610	.602	74	.599	.600	8	.603	8	.599	24	.587
25	.612	.603	75	.599	.599	9	.604	9	.599	25	.686
26	.612	.603	76	.599	.598	10	.603	10	.599	26	.682
27	.614	.601	77	.597	.597	11	.603	11	.599	27	.680
28	.616	.603	78	.599	.597			12	.599	28	.671
29	.619	.603	79	.601	.595	HUB. GAUCHE		13	.599	29	.644
30	.618	.603	80	.608	.599			14	.599	30	.619
31	.622	.601	81	.615	.601	1	.615	15	.599	31	.603
32	.620	.605	82	.615	.603	2	.614	16	.599	32	.616
33	.622	.605	83	.618	.601	3	.612	17	.599	33	.655
34	.620	.604	84	.624	.601	4	.606	18	.599	34	.737
35	.622	.605	85	.626	.602	5	.607	19	.599	35	.764
36	.620	.605	86	.625	.604	6	.609	20	.599	36	.781
37	.621	.604	87	.624	.605	7	.611	21	.599	37	.743
38	.619	.604	88	.623	.604	8	.613	22	.599	38	.737
39	.620	.604	89	.622	.603	9	.613	23	.599	39	.730
40	.617	.603	90	.615	.603	10	.612	24	.599	40	.721
41	.617	.603	91	.614	.601	11	.611	25	.599	41	.714
42	.617	.602	92	.608	.601	12	.610	26	.599	42	.708
43	.617	.601	93	.602	.600	13	.609	27	.599	43	.702
44	.613	.601	94	.604	.601	14	.609	28	.599	44	.690
45	.612	.600	95	.596	.598	15	.605	29	.599	45	.677
46	.609	.601	96	.590	.596	16	.604	30	.599	46	.675
47	.609	.601				17	.605	31	.598	47	.668
48	.607	.602				18	.605	32	.599	48	.656
49	.606	.602				19	.605	33	.599	49	.636
50	.604	.602				20	.606	34	.598	50	.631
51	.604	.602				21	.606	35	.598		
52	.601	.602	PRISES COL			22	.607	36	.599		
53	.599	.603				23	.605	37	.599		
54	.598	.603	.666	1.064		24	.608	38	.599		
55	.596	.602	.806	1.063		25	.609	39	.599		
56	.593	.600	.800	.881		26	.610	40	.599		
57	.591	.599	.866	.791		27	.611	41	.599		
58	.590	.593	1.027	.725		28	.612	42	.599		
						29	.610	43	.599		
						30	.608	44	.599		
						31	.606	45	.598		
						32	.606				

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**********************************   FICHIER AD108      N0(IT)=  1
14 8 85 12H   AS07 M=.8  I=0 R 2-5 NON ADAPTE AD108
DE AD4 1'ITE PAROIS RECTILIGNES SYMETRIQUES
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       MACH DE REFERENCE= .3012       UINF=  231.108 M/S
                    TIV=298.5 K        PIV=  1604 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.801	.798	PRISES DOUBLES			HUB. AMONT		33	.827	1	.785
2	.804	.808						34	.826	2	.811
3	.803	.805	59	.803	.802	1	.801	35	.824	3	.890
4	.797	.801	60	.803	.805	2	.800	36	.819	4	1.000
5	.796	.801	61	.811	.807	3	.800	37	.820	5	.965
6	.803	.805				4	.800	38	.821	6	.894
7	.803	.804	PRISES LAT. GAUCHES			5	.798	39	.823	7	.811
8	.802	.799				6	.799	40	.826	8	.811
9	.801	.803	62	.800	.803	7	.799	41	.827	9	.4[illegible]
10	.804	.800	63	.793	.809	8	.799	42	.824	10	1.351
11	.799	.802	64	.808	.806	9	.799	43	.822	11	1.[illegible]
12	.794	.800	65	.814	.808	10	.799	44	.821	12	1.[illegible]
13	.797	.799	66	.823	.812	11	.800	45	.820	13	1.029
14	.799	.803	67	.841	.818					14	1.023
15	.803	.803	68	.848	.823	HUB. AVAL		HUB. DROIT		15	1.017
16	.803	.800	69	.852	.828					16	1.014
17	.804	.801	70	.845	.819	1	.815	1	.801	17	1.011
18	.806	.802	71	.822	.812	2	.814	2	.801	18	1.024
19	.805	.802	72	.813	.814	3	.813	3	.802	19	1.025
20	.809	.806	73	.807	.813	4	.817	4	.802	20	1.025
21	.812	.808				5	.814	5	.801	21	1.013
22	.820	.810	PRISES LAT. DROITES			6	.813	6	.801	22	.997
23	.826	.810				7	.812	7	.801	23	.968
24	.838	.815	74	.801	.808	8	.811	8	.801	24	.751
25	.829	.818	75	.804	.803	9	.814	9	.802	25	.731
26	.831	.817	76	.802	.801	10	.811	10	.802	26	.879
27	.840	.815	77	.798	.799	11	.811	11	.802	27	.986
28	.844	.819	78	.800	.797			12	.801	28	.970
29	.855	.821	79	.803	.797	HUB. GAUCHE		13	.801	29	.908
30	.852	.821	80	.813	.806			14	.801	30	.863
31	.864	.819	81	.832	.811	1	.846	15	.801	31	.849
32	.859	.826	82	.831	.815	2	.844	16	.801	32	.420
33	.867	.828	83	.848	.816	3	.843	17	.801	33	1.538
34	.861	.824	84	.868	.819	4	.821	18	.802	34	1.445
35	.866	.826	85	.875	.825	5	.825	19	.801	35	1.334
36	.864	.828	86	.874	.829	6	.832	20	.801	36	1.298
37	.864	.825	87	.872	.829	7	.840	21	.801	37	1.242
38	.858	.824	88	.868	.824	8	.846	22	.801	38	1.082
39	.857	.822	89	.857	.819	9	.847	23	.801	39	1.079
40	.850	.820	90	.842	.818	10	.839	24	.801	40	1.028
41	.847	.818	91	.835	.817	11	.839	25	.801	41	1.036
42	.847	.819	92	.825	.812	12	.837	26	.801	42	1.023
43	.843	.817	93	.813	.811	13	.835	27	.801	43	1.007
44	.835	.816	94	.820	.813	14	.833	28	.801	44	.981
45	.832	.813	95	.813	.790	15	.817	29	.801	45	.947
46	.827	.814	96	.807	.788	16	.817	30	.801	46	.941
47	.825	.811				17	.819	31	.801	47	.931
48	.822	.813				18	.821	32	.802	48	.944
49	.820	.812				19	.821	33	.802	49	.917
50	.816	.812				20	.824	34	.802	50	.943
51	.819	.814				21	.826	35	.802		
52	.813	.808	PRISES COL			22	.828	36	.802		
53	.815	.808				23	.827	37	.801		
54	.817	.807	.856	1.317		24	.834	38	.801		
55	.816	.802	.851	.917		25	.836	39	.801		
56	.812	.796	.942	.856		26	.839	40	.801		
57	.810	.793	.985	.800		27	.844	41	.801		
58	.804	.782	1.146	.759		28	.844	42	.801		
						29	.837	43	.801		
						30	.828	44	.801		
						31	.823	45	.801		
						32	.829				

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++++++++++++++++++++++++++++   FICHIER AD110      NO(IT)=  1
14 8 85 16H50 AS07 M=.7  I=-2 R 2-5 NON ADAPTE AD110
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
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      MACH DE REFERENCE= .6974       UINF=  231.108 M/S
                    TIW=299.3 K       PIW=  1553 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.698	.697	PRISES DOUBLES			HUB. AMONT		33	.712	1	.681
2	.699	.702						34	.712	2	.706
3	.698	.699	59	.697	.697	1	.697	35	.712	3	.710
4	.696	.697	60	.699	.700	2	.697	36	.709	4	.849
5	.696	.698	61	.701	.700	3	.697	37	.710	5	.849
6	.699	.699				4	.696	38	.711	6	.831
7	.697	.698	PRISES LAT. GAUCHES			5	.695	39	.712	7	.779
8	.698	.697				6	.696	40	.714	8	.815
9	.699	.701	62	.696	.699	7	.696	41	.714	9	.869
10	.699	.696	63	.698	.704	8	.696	42	.712	10	.910
11	.696	.698	64	.702	.702	9	.696	43	.711	11	.878
12	.694	.698	65	.705	.701	10	.696	44	.711	12	.854
13	.695	.696	66	.708	.708	11	.696	45	.710	13	.825
14	.696	.698	67	.716	.711					14	.815
15	.697	.698	68	.718	.714	HUB. AVAL		HUB. DROIT		15	.811
16	.698	.696	69	.719	.718					16	.804
17	.698	.699	70	.717	.711	1	.703	1	.698	17	.806
18	.701	.702	71	.708	.707	2	.703	2	.698	18	.812
19	.700	.702	72	.705	.704	3	.702	3	.698	19	.810
20	.703	.702	73	.695	.706	4	.704	4	.698	20	.815
21	.704	.702				5	.702	5	.697	21	.809
22	.708	.704	PRISES LAT. DROITES			6	.703	6	.697	22	.812
23	.709	.706				7	.701	7	.697	23	.803
24	.709	.709	74	.698	.700	8	.702	8	.697	24	.804
25	.710	.712	75	.698	.699	9	.703	9	.697	25	.794
26	.710	.711	76	.698	.697	10	.701	10	.697	26	.781
27	.714	.711	77	.696	.695	11	.702	11	.697	27	.845
28	.716	.712	78	.697	.697			12	.697	28	.856
29	.720	.715	79	.699	.699	HUB. GAUCHE		13	.697	29	.841
30	.718	.714	80	.709	.702			14	.697	30	.840
31	.723	.713	81	.713	.709	1	.718	15	.697	31	.903
32	.722	.718	82	.711	.714	2	.716	16	.697	32	.869
33	.724	.720	83	.717	.715	3	.715	17	.697	33	.884
34	.721	.717	84	.736	.717	4	.707	18	.697	34	.815
35	.724	.719	85	.728	.720	5	.708	19	.697	35	.811
36	.722	.719	86	.727	.721	6	.711	20	.697	36	.812
37	.723	.718	87	.727	.721	7	.714	21	.697	37	.814
38	.720	.716	88	.726	.718	8	.715	22	.697	38	.818
39	.721	.715	89	.725	.715	9	.716	23	.698	39	.819
40	.718	.713	90	.718	.712	10	.714	24	.697	40	.815
41	.718	.712	91	.716	.708	11	.713	25	.698	41	.811
42	.719	.711	92	.710	.707	12	.713	26	.698	42	.810
43	.718	.709	93	.708	.704	13	.713	27	.698	43	.812
44	.714	.708	94	.707	.702	14	.712	28	.698	44	.804
45	.714	.706	95	.700	.691	15	.707	29	.698	45	.794
46	.710	.707	96	.695	.689	16	.706	30	.698	46	.785
47	.710	.706				17	.707	31	.698	47	.787
48	.708	.706				18	.708	32	.698	48	.780
49	.707	.704				19	.708	33	.698	49	.777
50	.705	.703				20	.709	34	.698	50	.747
51	.706	.703				21	.709	35	.698		
52	.703	.701	PRISES COL			22	.711	36	.698		
53	.702	.701				23	.709	37	.698		
54	.702	.702	.757	1.149		24	.713	38	.698		
55	.702	.699	.816	1.370		25	.714	39	.698		
56	.699	.696	.871	.937		26	.716	40	.698		
57	.697	.693	.927	.793		27	.718	41	.698		
58	.692	.686	1.091	.730		28	.719	42	.698		
						29	.717	43	.697		
						30	.712	44	.697		
						31	.710	45	.697		
						32	.712				

********** FICHIER AD115 N0(IT)= 1
20/ 8/85 11H15 AS07 M=.7 I=0 R 2-5 ADAPTE 3D 1'ITE AD115
DE AD9105 1'ITE.

MACH DE REFERENCE= .7018 UINF= 231.108 M/S
TIV=298.7 K PIV= 1517 MB

MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I
1	.703	.701	PRISES DOUBLES			HUB. AMONT		33	.705	1
2	.702	.705						34	.704	2
3	.701	.702	59	.700	.699	1	.702	35	.704	3
4	.699	.701	60	.703	.704	2	.701	36	.705	4
5	.698	.701	61	.706	.704	3	.701	37	.704	5
6	.701	.702				4	.701	38	.704	6
7	.700	.700	PRISES LAT. GAUCHES			5	.699	39	.704	7
8	.703	.700				6	.700	40	.705	8
9	.704	.705	62	.699	.703	7	.699	41	.707	9
10	.704	.701	63	.700	.707	8	.698	42	.706	10
11	.702	.703	64	.707	.705	9	.700	43	.704	11
12	.699	.704	65	.702	.701	10	.700	44	.703	12
13	.701	.703	66	.703	.702	11	.701	45	.703	13
14	.702	.703	67	.710	.704					14
15	.703	.702	68	.708	.704	HUB. AVAL		HUB. DROIT		15
16	.704	.701	69	.708	.706					16
17	.704	.702	70	.715	.703	1	.707	1	.703	17
18	.705	.704	71	.708	.704	2	.706	2	.703	18
19	.702	.703	72	.707	.706	3	.706	3	.703	19
20	.702	.701	73	.712	.710	4	.706	4	.703	20
21	.702	.701				5	.705	5	.702	21
22	.706	.702	PRISES LAT. DROITES			6	.705	6	.702	22
23	.707	.703				7	.706	7	.702	23
24	.707	.703	74	.700	.704	8	.707	8	.702	24
25	.707	.704	75	.700	.701	9	.706	9	.703	25
26	.707	.702	76	.702	.701	10	.704	10	.703	26
27	.711	.701	77	.702	.701	11	.705	11	.702	27
28	.713	.704	78	.702	.699			12	.702	28
29	.717	.705	79	.701	.699	HUB. GAUCHE		13	.702	29
30	.715	.705	80	.708	.700			14	.702	30
31	.719	.703	81	.712	.704	1	.710	15	.702	31
32	.715	.707	82	.710	.703	2	.710	16	.702	32
33	.716	.707	83	.716	.703	3	.710	17	.702	33
34	.712	.705	84	.724	.705	4	.705	18	.702	34
35	.714	.706	85	.725	.707	5	.704	19	.702	35
36	.713	.706	86	.720	.707	6	.707	20	.702	36
37	.716	.704	87	.718	.706	7	.709	21	.702	37
38	.716	.704	88	.718	.704	8	.712	22	.703	38
39	.720	.703	89	.723	.702	9	.714	23	.703	39
40	.717	.702	90	.717	.703	10	.712	24	.702	40
41	.718	.703	91	.709	.705	11	.709	25	.702	41
42	.719	.703	92	.712	.705	12	.709	26	.702	42
43	.714	.704	93	.704	.702	13	.708	27	.702	43
44	.708	.704	94	.707	.703	14	.707	28	.702	44
45	.707	.704	95	.707	.692	15	.705	29	.702	45
46	.707	.705	96	.711	.690	16	.704	30	.702	46
47	.711	.704				17	.704	31	.702	47
48	.710	.704				18	.704	32	.702	48
49	.709	.703				19	.704	33	.702	49
50	.705	.703				20	.705	34	.702	50
51	.707	.704				21	.706	35	.702	
52	.707	.705	PRISES COL			22	.706	36	.702	
53	.709	.706				23	.705	37	.702	
54	.710	.706		.756	1.149	24	.709	38	.702	
55	.711	.702		.780	1.050	25	.710	39	.702	
56	.710	.699		.872	.859	26	.711	40	.702	
57	.712	.695		.927	.764	27	.714	41	.703	
58	.713	.688		1.093	.710	28	.715	42	.702	
						29	.713	43	.702	
						30	.709	44	.702	
						31	.707	45	.702	
						32	.706			

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**************************** FICHIER AD116      NOUIT= 1
20/ 8/85 11H30 A507 M=.7  I=0  R 2-5   ADAPTE 3D 2'ITE. AD116
DE AD9115 1'ITE.
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      MACH DE REFERENCE= .7014      UINF=  231.108 M/S
                  TIV=300.2 K       PIV=  1517 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE A507	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.703	.701	+ PRISES DOUBLES			+	HUB. AMONT		33	.705	+	1	.677
2	.704	.706	+			+			34	.704	+	2	.690
3	.702	.703	+	59	.702	.701	+ 1	.700	35	.703	+	3	.747
4	.699	.701	+	60	.704	.703	+ 2	.699	36	.703	+	4	.810
5	.699	.701	+	61	.702	.703	+ 3	.699	37	.703	+	5	.807
6	.702	.703	+				+ 4	.699	38	.703	+	6	.770
7	.702	.702	+ PRISES LAT. GAUCHES				+ 5	.697	39	.703	+	7	.714
8	.703	.700	+				+ 6	.698	40	.704	+	8	.707
9	.703	.704	+	62	.700	.703	+ 7	.698	41	.705	+	9	.884
10	.704	.700	+	63	.700	.706	+ 8	.697	42	.705	+	10	1.055
11	.701	.701	+	64	.704	.705	+ 9	.698	43	.703	+	11	1.009
12	.697	.701	+	65	.701	.701	+ 10	.698	44	.702	+	12	.914
13	.698	.700	+	66	.705	.700	+ 11	.699	45	.702	+	13	.875
14	.698	.701	+	67	.710	.705	+				+	14	.861
15	.699	.702	+	68	.708	.705	+ HUB. AVAL		HUB. DROIT		+	15	.849
16	.700	.701	+	69	.709	.705	+				+	16	.837
17	.701	.701	+	70	.712	.702	+ 1	.705	1	.702	+	17	.833
18	.705	.700	+	71	.705	.701	+ 2	.705	2	.702	+	18	.835
19	.704	.700	+	72	.706	.704	+ 3	.704	3	.702	+	19	.831
20	.703	.702	+	73	.706	.708	+ 4	.705	4	.701	+	20	.828
21	.702	.701	+				+ 5	.704	5	.701	+	21	.816
22	.702	.698	+ PRISES LAT. DROITES				+ 6	.704	6	.702	+	22	.812
23	.703	.696	+				+ 7	.705	7	.702	+	23	.801
24	.706	.698	+	74	.700	.704	+ 8	.706	8	.701	+	24	.667
25	.708	.700	+	75	.702	.701	+ 9	.704	9	.701	+	25	.682
26	.708	.700	+	76	.702	.700	+ 10	.703	10	.701	+	26	.741
27	.713	.701	+	77	.698	.699	+ 11	.704	11	.701	+	27	.812
28	.713	.704	+	78	.699	.699	+		12	.701	+	28	.805
29	.715	.705	+	79	.702	.696	+ HUB. GAUCHE		13	.702	+	29	.771
30	.713	.705	+	80	.707	.699	+		14	.702	+	30	.738
31	.717	.702	+	81	.709	.698	+ 1	.710	15	.702	+	31	.729
32	.713	.707	+	82	.712	.699	+ 2	.708	16	.702	+	32	.962
33	.716	.707	+	83	.718	.702	+ 3	.708	17	.702	+	33	1.132
34	.712	.705	+	84	.724	.706	+ 4	.703	18	.702	+	34	1.011
35	.714	.705	+	85	.725	.708	+ 5	.703	19	.701	+	35	.893
36	.713	.704	+	86	.721	.708	+ 6	.706	20	.701	+	36	.883
37	.715	.702	+	87	.719	.706	+ 7	.709	21	.701	+	37	.875
38	.714	.701	+	88	.719	.703	+ 8	.710	22	.702	+	38	.871
39	.718	.701	+	89	.721	.699	+ 9	.712	23	.702	+	39	.864
40	.716	.700	+	90	.714	.701	+ 10	.710	24	.702	+	40	.852
41	.715	.700	+	91	.708	.706	+ 11	.707	25	.702	+	41	.844
42	.716	.701	+	92	.708	.702	+ 12	.707	26	.702	+	42	.837
43	.712	.703	+	93	.702	.699	+ 13	.708	27	.702	+	43	.829
44	.707	.704	+	94	.706	.702	+ 14	.707	28	.702	+	44	.813
45	.706	.704	+	95	.705	.698	+ 15	.704	29	.702	+	45	.795
46	.706	.705	+	96	.704	.696	+ 16	.703	30	.702	+	46	.793
47	.708	.701	+				+ 17	.703	31	.702	+	47	.781
48	.708	.701	+				+ 18	.703	32	.702	+	48	.747
49	.707	.700	+				+ 19	.702	33	.702	+	49	.717
50	.704	.701	+				+ 20	.703	34	.702	+	50	.730
51	.705	.703	+				+ 21	.704	35	.702	+		
52	.703	.704	+	PRISES COL			+ 22	.705	36	.703	+		
53	.705	.705	+				+ 23	.703	37	.701	+		
54	.707	.704	+		.761	1.154	+ 24	.707	38	.703	+		
55	.708	.700	+		.784	1.041	+ 25	.709	39	.702	+		
56	.707	.696	+		.874	.861	+ 26	.710	40	.702	+		
57	.707	.691	+		.930	.765	+ 27	.713	41	.702	+		
58	.703	.681	+		1.096	.711	+ 28	.714	42	.702	+		
							+ 29	.712	43	.702	+		
							+ 30	.709	44	.702	+		
							+ 31	.707	45	.702	+		
							+ 32	.705					

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*****************************   FICHIER AD117      N0(IT)=  1
30/ 8/85 11H50 AS07 M=.6  I=0  R 2-5   ADAPTE  3D 1'ITE. AD117
DE AD9107  1'ITE
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MACH DE REFERENCE= .5983 UINF= 231.108 M/S
TIV=300.1 K PIV= 1386 MB

	MACH PAROIS HAUTE ET BASSE					MACH PAROIS LATER.				AILE
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I
1	.599	.597	PRISES DOUBLES			HUB. AMONT		33	.601	1
2	.600	.602						34	.600	2
3	.599	.600	59	.599	.599	1	.598	35	.599	3
4	.597	.599	60	.599	.598	2	.597	36	.600	4
5	.596	.600	61	.601	.599	3	.597	37	.600	5
6	.599	.601				4	.597	38	.599	6
7	.599	.600	PRISES LAT. GAUCHES			5	.596	39	.599	7
8	.599	.597				6	.596	40	.600	8
9	.598	.599	62	.597	.599	7	.596	41	.601	9
10	.600	.596	63	.601	.602	8	.595	42	.601	10
11	.598	.597	64	.601	.602	9	.596	43	.599	11
12	.595	.596	65	.599	.597	10	.597	44	.599	12
13	.597	.596	66	.599	.599	11	.598	45	.598	13
14	.598	.598	67	.604	.601					14
15	.599	.599	68	.604	.602	HUB. AVAL		HUB. DROIT		15
16	.598	.598	69	.604	.601					16
17	.599	.600	70	.607	.600	1	.602	1	.599	17
18	.601	.601	71	.601	.598	2	.601	2	.599	18
19	.599	.599	72	.602	.602	3	.601	3	.598	19
20	.599	.597	73	.593	.604	4	.600	4	.598	20
21	.598	.596				5	.601	5	.599	21
22	.601	.596	PRISES LAT. DROITES			6	.602	6	.599	22
23	.602	.597				7	.602	7	.599	23
24	.602	.599	74	.598	.601	8	.604	8	.598	24
25	.601	.599	75	.599	.599	9	.602	9	.598	25
26	.600	.598	76	.599	.597	10	.600	10	.599	26
27	.604	.599	77	.597	.596	11	.599	11	.599	27
28	.604	.600	78	.598	.598			12	.598	28
29	.607	.601	79	.599	.596	HUB. GAUCHE		13	.598	29
30	.605	.600	80	.604	.596			14	.598	30
31	.608	.597	81	.606	.598	1	.604	15	.598	31
32	.607	.601	82	.604	.600	2	.603	16	.599	32
33	.609	.601	83	.608	.601	3	.602	17	.599	33
34	.606	.600	84	.614	.601	4	.599	18	.599	34
35	.608	.600	85	.615	.603	5	.599	19	.599	35
36	.607	.599	86	.613	.603	6	.601	20	.599	36
37	.609	.599	87	.612	.602	7	.603	21	.599	37
38	.608	.599	88	.611	.600	8	.604	22	.598	38
39	.610	.599	89	.614	.599	9	.605	23	.598	39
40	.608	.598	90	.609	.600	10	.605	24	.598	40
41	.607	.598	91	.604	.601	11	.603	25	.598	41
42	.608	.598	92	.602	.599	12	.602	26	.598	42
43	.606	.600	93	.599	.598	13	.602	27	.599	43
44	.604	.601	94	.604	.600	14	.601	28	.600	44
45	.602	.599	95	.601	.590	15	.600	29	.600	45
46	.601	.600	96	.589	.589	16	.599	30	.600	46
47	.602	.598				17	.599	31	.600	47
48	.602	.598				18	.600	32	.599	48
49	.603	.599				19	.599	33	.599	49
50	.602	.600				20	.600	34	.599	50
51	.603	.601				21	.601	35	.599	
52	.602	.599	PRISES COL			22	.600	36	.599	
53	.603	.600				23	.599	37	.599	
54	.602	.600		.661	1.060	24	.602	38	.599	
55	.601	.597		.684	.909	25	.603	39	.599	
56	.598	.594		.799	.793	26	.604	40	.599	
57	.594	.591		.865	.689	27	.606	41	.599	
58	.583	.587		1.023	.629	28	.607	42	.599	
						29	.606	43	.599	
						30	.604	44	.599	
						31	.603	45	.599	
						32	.602			

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********************************   FICHIER AD118      NO(IT)=  1
20/ 8/85 14H35 AS07 M=.8  I=0  R 2-5   ADAPTE 3D 1'ITE. AD118
DE AD9108  1'ITE.
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      MACH DE REFERENCE= .8059       UINF=  231.108 M/S
                       TIW=300.9 K      PIW=  1649 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.808	.806	PRISES DOUBLES			HUB. AMONT		33	.816	1	.776
2	.806	.811						34	.815	2	.799
3	.803	.806	59	.804	.803	1	.807	35	.815	3	.980
4	.800	.803	60	.810	.811	2	.806	36	.814	4	.988
5	.800	.803	61	.814	.818	3	.806	37	.814	5	.964
6	.804	.805				4	.807	38	.813	6	.902
7	.804	.804	PRISES LAT. GAUCHES			5	.805	39	.814	7	.820
8	.809	.806				6	.805	40	.817	8	.820
9	.810	.813	62	.801	.805	7	.804	41	.819	9	.422
10	.811	.806	63	.801	.815	8	.804	42	.817	10	1.315
11	.807	.807	64	.814	.813	9	.805	43	.814	11	1.257
12	.803	.808	65	.812	.813	10	.806	44	.813	12	1.139
13	.805	.808	66	.808	.811	11	.808	45	.812	13	1.017
14	.805	.811	67	.823	.812					14	1.000
15	.807	.811	68	.820	.814	HUB. AVAL		HUB. DROIT		15	.997
16	.808	.809	69	.821	.820					16	.987
17	.809	.808	70	.827	.815	1	.815	1	.807	17	.985
18	.813	.808	71	.817	.808	2	.815	2	.807	18	.991
19	.812	.809	72	.817	.817	3	.814	3	.807	19	.989
20	.810	.812	73	.820	.826	4	.816	4	.807	20	.993
21	.811	.813				5	.814	5	.807	21	.978
22	.816	.811	PRISES LAT. DROITES			6	.814	6	.806	22	.969
23	.818	.810				7	.813	7	.807	23	.946
24	.814	.812	74	.803	.806	8	.813	8	.807	24	.754
25	.812	.815	75	.804	.805	9	.816	9	.807	25	.709
26	.814	.814	76	.808	.807	10	.814	10	.807	26	.868
27	.821	.811	77	.806	.806	11	.816	11	.807	27	.977
28	.825	.813	78	.806	.805			12	.806	28	.978
29	.834	.816	79	.808	.803	HUB. GAUCHE		13	.806	29	.919
30	.830	.815	80	.813	.811			14	.806	30	.875
31	.837	.812	81	.824	.811	1	.823	15	.807	31	.871
32	.831	.819	82	.815	.813	2	.822	16	.807	32	.410
33	.834	.820	83	.828	.813	3	.822	17	.806	33	1.403
34	.828	.817	84	.845	.815	4	.813	18	.806	34	1.375
35	.831	.819	85	.847	.820	5	.813	19	.806	35	1.194
36	.829	.820	86	.840	.821	6	.817	20	.806	36	1.087
37	.832	.818	87	.836	.820	7	.821	21	.806	37	1.044
38	.831	.818	88	.834	.817	8	.825	22	.806	38	1.052
39	.835	.817	89	.838	.815	9	.828	23	.806	39	1.034
40	.831	.816	90	.827	.814	10	.824	24	.806	40	1.023
41	.831	.815	91	.819	.810	11	.821	25	.806	41	1.004
42	.831	.814	92	.820	.808	12	.821	26	.807	42	.995
43	.825	.812	93	.811	.806	13	.820	27	.807	43	.983
44	.818	.811	94	.817	.815	14	.819	28	.807	44	.959
45	.817	.807	95	.814	.802	15	.815	29	.807	45	.928
46	.815	.808	96	.810	.798	16	.813	30	.807	46	.922
47	.820	.806				17	.813	31	.807	47	.914
48	.820	.809				18	.813	32	.806	48	.845
49	.818	.808				19	.813	33	.806	49	.902
50	.814	.810				20	.814	34	.806	50	.884
51	.817	.816				21	.815	35	.806		
52	.816	.818	PRISES COL			22	.816	36	.806		
53	.818	.821				23	.815	37	.806		
54	.819	.819		.844	1.209	24	.820	38	.806		
55	.820	.812		.866	1.117	25	.822	39	.806		
56	.818	.806		.935	.891	26	.825	40	.806		
57	.820	.803		.980	.821	27	.830	41	.807		
58	.823	.803		1.139	.779	28	.832	42	.806		
						29	.826	43	.806		
						30	.819	44	.806		
						31	.815	45	.806		
						32	.817				

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*****************************   FICHIER AD119      N0(IT)=  1
20/ 8/85 15H10 AS07 M=.8  I=0  R 2-5   ADAPTE 3D 3'ITE. AD119
DE AD9118  1'ITE.
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      MACH DE REFERENCE= .8049      UINF=  231.108 M/S
                    TIV=301.4 K      PIV=  1648 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.808	.807	*	PRISES DOUBLES			HUB. AMONT		33	.810	*	1	.788
2	.807	.812	*						34	.809	*	2	.793
3	.804	.806	*	59	.803	.803	1	.801	35	.808	*	3	.867
4	.801	.804	*	60	.806	.806	2	.801	36	.808	*	4	.939
5	.802	.805	*	61	.805	.803	3	.801	37	.807	*	5	.958
6	.805	.806	*				4	.802	38	.807	*	6	.967
7	.804	.805	*	PRISES LAT. GAUCHES			5	.800	39	.808	*	7	.9819
8	.808	.806	*				6	.800	40	.810	*	8	.9910
9	.809	.812	*	62	.802	.806	7	.799	41	.812	*	9	1.0418
10	.807	.802	*	63	.798	.811	8	.799	42	.810	*	10	1.1333
11	.802	.801	*	64	.809	.810	9	.801	43	.807	*	11	1.1244
12	.798	.802	*	65	.806	.804	10	.801	44	.806	*	12	1.1083
13	.800	.801	*	66	.807	.803	11	.802	45	.806	*	13	1.0911
14	.799	.804	*	67	.816	.808					*	14	.9995
15	.801	.805	*	68	.815	.808	HUB. AVAL		HUB. DROIT		*	15	.9930
16	.803	.805	*	69	.817	.811					*	16	.9878
17	.805	.806	*	70	.820	.806	1	.808	1	.805	*	17	.9875
18	.808	.806	*	71	.810	.804	2	.806	2	.806	*	18	.9862
19	.808	.805	*	72	.809	.809	3	.806	3	.806	*	19	.9879
20	.807	.805	*	73	.814	.810	4	.808	4	.805	*	20	.9831
21	.806	.804	*				5	.806	5	.805	*	21	.9866
22	.807	.803	*	PRISES LAT. DROITES			6	.805	6	.805	*	22	.9955
23	.810	.802	*				7	.805	7	.805	*	23	.9935
24	.811	.803	*	74	.804	.807	8	.806	8	.806	*	24	.9746
25	.811	.806	*	75	.804	.805	9	.807	9	.806	*	25	.9717
26	.813	.805	*	76	.805	.803	10	.804	10	.806	*	26	.9699
27	.818	.803	*	77	.800	.799	11	.805	11	.805	*	27	.9653
28	.820	.807	*	78	.801	.802			12	.805	*	28	.9955
29	.827	.810	*	79	.805	.799	HUB. GAUCHE		13	.805	*	29	.9901
30	.822	.809	*	80	.813	.802			14	.806	*	30	.9859
31	.830	.807	*	81	.816	.803	1	.817	15	.806	*	31	.9854
32	.824	.812	*	82	.814	.804	2	.817	16	.806	*	32	.9907
33	.828	.813	*	83	.825	.806	3	.817	17	.805	*	33	1.0436
34	.833	.809	*	84	.838	.810	4	.807	18	.805	*	34	1.1372
35	.827	.811	*	85	.840	.813	5	.808	19	.805	*	35	1.1355
36	.825	.811	*	86	.834	.814	6	.812	20	.805	*	36	1.1005
37	.827	.809	*	87	.832	.812	7	.815	21	.805	*	37	1.0941
38	.824	.808	*	88	.830	.808	8	.820	22	.805	*	38	1.0088
39	.828	.806	*	89	.831	.804	9	.822	23	.805	*	39	1.0019
40	.823	.804	*	90	.819	.804	10	.819	24	.805	*	40	1.0012
41	.823	.805	*	91	.816	.806	11	.815	25	.805	*	41	.9985
42	.824	.804	*	92	.814	.805	12	.815	26	.806	*	42	.9987
43	.821	.805	*	93	.804	.804	13	.814	27	.806	*	43	.9974
44	.814	.805	*	94	.808	.804	14	.814	28	.806	*	44	.9959
45	.813	.804	*	95	.804	.799	15	.809	29	.806	*	45	.9919
46	.811	.805	*	96	.813	.794	16	.807	30	.806	*	46	.9912
47	.814	.804	*				17	.807	31	.805	*	47	.9907
48	.812	.806	*				18	.807	32	.805	*	48	.9940
49	.811	.805	*				19	.807	33	.805	*	49	.9955
50	.807	.806	*				20	.808	34	.805	*	50	.9939
51	.808	.806	*				21	.809	35	.805	*		
52	.808	.803	*	PRISES COL			22	.811	36	.805	*		
53	.809	.805	*				23	.808	37	.805	*		
54	.809	.804	*	.845	1.209		24	.814	38	.805	*		
55	.810	.801	*	.867	1.138		25	.816	39	.805	*		
56	.811	.798	*	.933	.891		26	.819	40	.805	*		
57	.814	.799	*	.978	.820		27	.824	41	.805	*		
58	.820	.800	*	1.138	.780		28	.826	42	.805	*		
							29	.820	43	.805	*		
							30	.813	44	.805	*		
							31	.810	45	.805	*		
							32	.811					

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*****************************   FICHIER AD120      N0(IT)=  1
20/ 8/85 16H 0 AS07 M=.6  I=+2 R 2-5  NON ADAPTE  AD120
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
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       MACH DE REFERENCE= .5993      VINF=  231.108 M/S
                        TIV=301.9 K     . PIV=  1386 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.600	.599	PRISES DOUBLES			HUB. AMONT		33	.606	1	.572
2	.600	.602						34	.605	2	.579
3	.599	.600	59	.599	.598	1	.600	35	.603	3	.630
4	.598	.599	60	.600	.601	2	.599	36	.604	4	.665
5	.598	.599	61	.601	.600	3	.599	37	.603	5	.653
6	.600	.601				4	.599	38	.603	6	.609
7	.599	.599	PRISES LAT. GAUCHES			5	.597	39	.602	7	.553
8	.600	.598				6	.598	40	.603	8	.511
9	.600	.601	62	.598	.600	7	.598	41	.604	9	.389
10	.600	.598	63	.601	.603	8	.599	42	.604	10	1.102
11	.598	.599	64	.604	.602	9	.598	43	.602	11	.930
12	.596	.599	65	.606	.599	10	.597	44	.601	12	.859
13	.598	.598	66	.612	.601	11	.598	45	.601	13	.812
14	.598	.599	67	.618	.600					14	.784
15	.599	.599	68	.621	.601	HUB. AVAL		HUB. DROIT		15	.767
16	.601	.598	69	.622	.603					16	.751
17	.602	.599	70	.623	.600	1	.604	1	.600	17	.742
18	.605	.601	71	.610	.601	2	.603	2	.600	18	.739
19	.605	.600	72	.607	.605	3	.604	3	.599	19	.731
20	.605	.599	73	.598	.603	4	.606	4	.600	20	.723
21	.606	.597				5	.604	5	.600	21	.710
22	.611	.598	PRISES LAT. DROITES			6	.604	6	.600	22	.700
23	.614	.597				7	.603	7	.599	23	.689
24	.614	.599	74	.599	.601	8	.604	8	.600	24	.666
25	.618	.599	75	.599	.599	9	.603	9	.600	25	.579
26	.617	.599	76	.599	.599	10	.601	10	.599	26	.483
27	.621	.595	77	.598	.597	11	.601	11	.599	27	.460
28	.622	.597	78	.600	.597			12	.599	28	.446
29	.627	.596	79	.604	.596	HUB. GAUCHE		13	.599	29	.438
30	.625	.598	80	.613	.596			14	.600	30	.551
31	.629	.594	81	.621	.596	1	.620	15	.600	31	.499
32	.627	.598	82	.623	.596	2	.619	16	.600	32	.355
33	.630	.598	83	.628	.595	3	.617	17	.600	33	1.104
34	.627	.599	84	.634	.595	4	.610	18	.600	34	1.053
35	.629	.598	85	.636	.596	5	.611	19	.599	35	.967
36	.627	.599	86	.635	.599	6	.613	20	.599	36	.875
37	.630	.599	87	.633	.599	7	.616	21	.599	37	.822
38	.627	.598	88	.632	.598	8	.620	22	.599	38	.804
39	.629	.597	89	.634	.597	9	.620	23	.600	39	.784
40	.626	.596	90	.626	.600	10	.617	24	.600	40	.767
41	.626	.598	91	.618	.604	11	.616	25	.600	41	.754
42	.627	.599	92	.611	.602	12	.615	26	.600	42	.743
43	.621	.601	93	.605	.602	13	.613	27	.600	43	.727
44	.617	.603	94	.606	.602	14	.612	28	.600	44	.707
45	.616	.602	95	.600	.595	15	.607	29	.600	45	.685
46	.612	.603	96	.592	.593	16	.605	30	.600	46	.681
47	.612	.601				17	.606	31	.600	47	.672
48	.611	.602				18	.607	32	.600	48	.642
49	.610	.603				19	.607	33	.600	49	.608
50	.608	.604				20	.607	34	.600	50	.631
51	.607	.604				21	.608	35	.600		
52	.602	.601	PRISES COL			22	.609	36	.600		
53	.601	.601				23	.608	37	.600		
54	.601	.599	.661	1.058		24	.611	38	.600		
55	.600	.598	.687	.396		25	.613	39	.600		
56	.597	.596	.797	.788		26	.614	40	.600		
57	.594	.596	.864	.638		27	.616	41	.600		
58	.588	.593	1.022	.529		28	.617	42	.600		
						29	.615	43	.600		
						30	.613	44	.599		
						31	.611	45	.600		
						32	.608				

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*****************************   FICHIER AD122      N0(IT)=  1
30/ 8/85 16H50 A807 M=.6 I=+2(+1.5+ROT.30') R 2-5 NON ADAPTE AD122
DE AD445 1'ITE. PAROIS RECTILIGNES + 30'
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .6002      UINF=  231.108 M/S
                 TIV=302.0 K         PIV=  1393 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE A807	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.608	.594		PRISES DOUBLES			HUB. AMONT		33	.607		1	.578
2	.608	.598							34	.605		2	.581
3	.604	.598		59	.600	.599	1	.600	35	.605		3	.588
4	.599	.597		60	.601	.601	2	.600	36	.605		4	.595
5	.597	.598		61	.601	.603	3	.601	37	.604		5	.599
6	.600	.601					4	.600	38	.604		6	.599
7	.600	.600		PRISES LAT. GAUCHES			5	.599	39	.603		7	.595
8	.601	.598					6	.599	40	.603		8	.590
9	.600	.601		62	.601	.598	7	.600	41	.604		9	.881
10	.602	.598		63	.603	.604	8	.600	42	.605		10	1.023
11	.599	.599		64	.605	.603	9	.599	43	.603		11	.930
12	.597	.599		65	.607	.601	10	.599	44	.602		12	.962
13	.599	.598		66	.613	.599	11	.599	45	.601		13	.909
14	.600	.600		67	.619	.604						14	.764
15	.601	.600		68	.621	.603	HUB. AVAL		HUB. DROIT			15	.765
16	.601	.599		69	.621	.602						16	.750
17	.603	.600		70	.620	.601	1	.602	1	.601		17	.741
18	.606	.601		71	.611	.603	2	.602	2	.601		18	.736
19	.606	.601		72	.604	.606	3	.604	3	.601		19	.729
20	.607	.601		73	.579	.608	4	.607	4	.601		20	.723
21	.607	.599					5	.605	5	.600		21	.711
22	.611	.599		PRISES LAT. DROITES			6	.605	6	.600		22	.702
23	.615	.597					7	.605	7	.602		23	.689
24	.616	.598		74	.602	.600	8	.606	8	.601		24	.560
25	.620	.597		75	.601	.600	9	.606	9	.601		25	.573
26	.620	.598		76	.601	.599	10	.604	10	.601		26	.623
27	.624	.598		77	.599	.597	11	.604	11	.600		27	.656
28	.624	.600		78	.601	.598			12	.600		28	.639
29	.627	.600		79	.605	.596	HUB. GAUCHE		13	.600		29	.593
30	.626	.602		80	.614	.597			14	.601		30	.548
31	.630	.598		81	.620	.596	1	.620	15	.601		31	.497
32	.627	.602		82	.624	.594	2	.620	16	.601		32	.349
33	.629	.599		83	.628	.595	3	.619	17	.601		33	1.042
34	.626	.599		84	.633	.598	4	.611	18	.601		34	1.046
35	.627	.598		85	.635	.599	5	.611	19	.601		35	.350
36	.626	.599		86	.633	.599	6	.615	20	.601		36	.368
37	.627	.597		87	.631	.598	7	.618	21	.600		37	.322
38	.625	.597		88	.630	.597	8	.620	22	.600		38	.304
39	.627	.598		89	.631	.598	9	.620	23	.600		39	.295
40	.625	.599		90	.624	.600	10	.618	24	.600		40	.297
41	.624	.599		91	.617	.601	11	.616	25	.600		41	.294
42	.624	.600		92	.612	.603	12	.615	26	.600		42	.291
43	.620	.600		93	.605	.604	13	.614	27	.600		43	.285
44	.617	.600		94	.605	.603	14	.613	28	.600		44	.286
45	.615	.600		95	.598	.603	15	.608	29	.600		45	.284
46	.613	.602		96	.578	.602	16	.607	30	.600		46	.279
47	.613	.603					17	.607	31	.600		47	.271
48	.612	.605					18	.608	32	.601		48	.262
49	.609	.605					19	.608	33	.601		49	.267
50	.605	.605					20	.608	34	.601		50	.630
51	.604	.605					21	.609	35	.601			
52	.602	.604		PRISES COL			22	.610	36	.601			
53	.600	.605					23	.608	37	.601			
54	.598	.606		.673	1.078		24	.612	38	.601			
55	.595	.605		.692	.896		25	.613	39	.600			
56	.589	.603		.806	.791		26	.614	40	.600			
57	.582	.603		.873	.692		27	.616	41	.600			
58	.571	.600		1.032	.632		28	.617	42	.600			
							29	.615	43	.600			
							30	.613	44	.600			
							31	.610	45	.600			
							32	.609					

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****************************   FICHIER AD123      N0(IT)=  1
20/ 8/85 17H15 AS07 M=.6 I=+2(+1.5+ROT.30') R 2-5 ADAPTE 3D 1'ITE. AD123
DE AD9122 1'ITE.
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MACH DE REFERENCE= .6002 UINF= 231.108 M/S
TIV=301.3 K PIV= 1394 MB

MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE A907	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.608	.593	PRISES DOUBLES			HUB. AMONT		33	.603	1	.569
2	.607	.597						34	.602	2	.580
3	.603	.598	59	.599	.599	1	.600	35	.601	3	.629
4	.600	.599	60	.602	.601	2	.599	36	.604	4	.670
5	.598	.601	61	.606	.601	3	.600	37	.603	5	.657
6	.600	.603				4	.600	38	.602	6	.616
7	.599	.600	PRISES LAT. GAUCHES			5	.599	39	.601	7	.564
8	.601	.599				6	.599	40	.601	8	.526
9	.602	.602	62	.601	.599	7	.598	41	.602	9	.368
10	.602	.598	63	.603	.602	8	.598	42	.602	10	.973
11	.600	.600	64	.604	.605	9	.599	43	.601	11	.899
12	.598	.600	65	.602	.601	10	.600	44	.600	12	.833
13	.600	.600	66	.601	.603	11	.601	45	.599	13	.789
14	.599	.601	67	.609	.602					14	.769
15	.600	.601	68	.608	.601	HUB. AVAL		HUB. DROIT		15	.752
16	.600	.600	69	.608	.603					16	.736
17	.601	.601	70	.612	.601	1	.606	1	.601	17	.728
18	.604	.601	71	.606	.602	2	.605	2	.601	18	.724
19	.603	.601	72	.605	.601	3	.605	3	.602	19	.717
20	.603	.601	73	.596	.607	4	.604	4	.601	20	.711
21	.603	.600				5	.603	5	.601	21	.698
22	.606	.600	PRISES LAT. DROITES			6	.604	6	.601	22	.690
23	.607	.599				7	.605	7	.600	23	.680
24	.606	.602	74	.602	.601	8	.607	8	.600	24	.557
25	.606	.602	75	.599	.599	9	.605	9	.601	25	.572
26	.605	.601	76	.601	.599	10	.603	10	.602	26	.603
27	.609	.599	77	.599	.598	11	.602	11	.601	27	.660
28	.612	.601	78	.601	.599			12	.601	28	.645
29	.616	.600	79	.603	.597	HUB. GAUCHE		13	.601	29	.604
30	.613	.600	80	.608	.597			14	.601	30	.563
31	.617	.597	81	.612	.598	1	.608	15	.600	31	.519
32	.613	.599	82	.609	.599	2	.608	16	.600	32	.[illegible]
33	.614	.599	83	.615	.599	3	.609	17	.600	33	1.046
34	.611	.599	84	.621	.598	4	.604	18	.600	34	.995
35	.612	.599	85	.622	.599	5	.605	19	.600	35	.966
36	.612	.601	86	.619	.599	6	.606	20	.600	36	.906
37	.614	.599	87	.616	.599	7	.608	21	.601	37	.793
38	.614	.600	88	.616	.599	8	.610	22	.601	38	.771
39	.618	.599	89	.621	.598	9	.612	23	.601	39	.758
40	.615	.598	90	.616	.599	10	.611	24	.601	40	.744
41	.615	.598	91	.608	.599	11	.609	25	.601	41	.732
42	.615	.599	92	.607	.602	12	.608	26	.601	42	.724
43	.612	.599	93	.603	.601	13	.608	27	.601	43	.712
44	.608	.599	94	.607	.600	14	.607	28	.601	44	.694
45	.606	.599	95	.605	.605	15	.604	29	.601	45	.676
46	.605	.601	96	.594	.603	16	.603	30	.601	46	.672
47	.603	.602				17	.602	31	.601	47	.665
48	.607	.603				18	.603	32	.601	48	.640
49	.606	.601				19	.603	33	.601	49	.633
50	.604	.600				20	.604	34	.601	50	.626
51	.606	.600				21	.605	35	.601		
52	.606	.601	PRISES COL			22	.606	36	.601		
53	.608	.605				23	.604	37	.601		
54	.608	.606		.867	1.079	24	.607	38	.601		
55	.606	.605		.692	.807	25	.608	39	.601		
56	.603	.605		.804	.794	26	.609	40	.601		
57	.599	.605		.869	.693	27	.611	41	.600		
58	.592	.607		1.029	.634	28	.612	42	.600		
						29	.610	43	.600		
						30	.608	44	.600		
						31	.607	45	.600		
						32	.604				

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**************************   FICHIER AD124      NO(IT)=  1
21/ 8/85  9H35 AS07 M=.7 I=+2(+1.5+ROT,30') R 2-5 NON ADAPTE AD124
DE AD445 1'ITE. PAROIS RECTILIGNES + 30'
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MACH DE REFERENCE= .7034 . UINF= 231.103 M/S
TIV=302.4 K PIV= 1521 MB

I	MACH PAROIS HAUTE HAUT	MACH PAROIS HAUTE BAS		I	MACH PAROIS BASSE HAUT	MACH PAROIS BASSE BAS		I	MACH PAROIS LATER. MACH	I	MACH PAROIS LATER. MACH		AILE AS07 I	AILE AS07 MACH
1	.713	.685	*	PRISES DOUBLES			*	HUB. AMONT		33	.716	*	1	.[illegible]
2	.712	.699	*				*			34	.714	*	2	.[illegible]
3	.707	.699	*	59	.702	.702	*	1	.705	35	.712	*	3	.[illegible]
4	.702	.700	*	60	.705	.705	*	2	.704	36	.712	*	4	.[illegible]
5	.700	.703	*	61	.706	.711	*	3	.703	37	.712	*	5	.[illegible]
6	.702	.705	*				*	4	.704	38	.711	*	6	.[illegible]
7	.702	.703	*	PRISES LAT. GAUCHES			*	5	.702	39	.711	*	7	.[illegible]
8	.705	.703	*				*	6	.703	40	.711	*	8	.[illegible]
9	.705	.706	*	62	.703	.700	*	7	.703	41	.712	*	9	.[illegible]
10	.705	.701	*	63	.702	.707	*	8	.704	42	.713	*	10	1.[illegible]
11	.701	.702	*	64	.710	.708	*	9	.703	43	.709	*	11	1.[illegible]
12	.699	.702	*	65	.713	.707	*	10	.703	44	.708	*	12	1.[illegible]
13	.701	.701	*	66	.726	.706	*	11	.703	45	.708	*	13	.[illegible]
14	.702	.705	*	67	.735	.713	*					*	14	.[illegible]
15	.704	.705	*	68	.737	.710	*	HUB. AVAL		HUB. DROIT		*	15	.[illegible]
16	.705	.704	*	69	.739	.709	*					*	16	.[illegible]
17	.708	.705	*	70	.737	.709	*	1	.709	1	.704	*	17	.[illegible]
18	.712	.706	*	71	.732	.709	*	2	.710	2	.704	*	18	.[illegible]
19	.712	.706	*	72	.713	.714	*	3	.711	3	.703	*	19	.[illegible]
20	.713	.707	*	73	.685	.715	*	4	.715	4	.704	*	20	.[illegible]
21	.714	.706	*				*	5	.713	5	.704	*	21	.[illegible]
22	.721	.705	*	PRISES LAT. DROITES			*	6	.712	6	.704	*	22	.[illegible]
23	.726	.702	*				*	7	.712	7	.703	*	23	.[illegible]
24	.729	.704	*	74	.705	.702	*	8	.713	8	.704	*	24	.[illegible]
25	.734	.703	*	75	.702	.703	*	9	.714	9	.704	*	25	.[illegible]
26	.734	.704	*	76	.703	.702	*	10	.711	10	.704	*	26	.[illegible]
27	.740	.702	*	77	.701	.700	*	11	.712	11	.703	*	27	.[illegible]
28	.741	.707	*	78	.705	.701	*			12	.703	*	28	.[illegible]
29	.743	.708	*	79	.710	.700	*	HUB. GAUCHE		13	.703	*	29	.[illegible]
30	.744	.710	*	80	.722	.702	*			14	.704	*	30	.[illegible]
31	.750	.704	*	81	.733	.701	*	1	.706	15	.704	*	31	.[illegible]
32	.746	.709	*	82	.739	.698	*	2	.704	16	.704	*	32	.[illegible]
33	.750	.707	*	83	.740	.700	*	3	.703	17	.704	*	33	1.[illegible]
34	.746	.706	*	84	.737	.705	*	4	.710	18	.704	*	34	1.[illegible]
35	.749	.705	*	85	.739	.707	*	5	.722	19	.704	*	35	1.[illegible]
36	.746	.705	*	86	.735	.706	*	6	.725	20	.704	*	36	1.[illegible]
37	.748	.703	*	87	.733	.704	*	7	.731	21	.703	*	37	1.[illegible]
38	.745	.704	*	88	.731	.702	*	8	.726	22	.703	*	38	1.[illegible]
39	.746	.704	*	89	.730	.703	*	9	.727	23	.703	*	39	.[illegible]
40	.742	.704	*	90	.729	.707	*	10	.732	24	.703	*	40	.[illegible]
41	.741	.706	*	91	.729	.711	*	11	.730	25	.704	*	41	.[illegible]
42	.742	.707	*	92	.723	.711	*	12	.728	26	.703	*	42	.[illegible]
43	.736	.709	*	93	.712	.709	*	13	.726	27	.704	*	43	.[illegible]
44	.730	.710	*	94	.712	.710	*	14	.724	28	.703	*	44	.[illegible]
45	.728	.710	*	95	.703	.722	*	15	.715	29	.703	*	45	.[illegible]
46	.725	.711	*	96	.684	.720	*	16	.714	30	.703	*	46	.[illegible]
47	.724	.710	*				*	17	.715	31	.703	*	47	.[illegible]
48	.722	.711	*				*	18	.716	32	.703	*	48	.[illegible]
49	.719	.711	*				*	19	.717	33	.703	*	49	.[illegible]
50	.714	.712	*				*	20	.718	34	.703	*	50	.[illegible]
51	.713	.712	*				*	21	.718	35	.703	*		
52	.707	.711	*	PRISES COL			*	22	.720	36	.703	*		
53	.705	.712	*				*	23	.718	37	.703	*		
54	.704	.713	*	.771	1.164		*	24	.723	38	.703	*		
55	.702	.714	*	.787	.985		*	25	.725	39	.703	*		
56	.697	.715	*	.879	.851		*	26	.728	40	.703	*		
57	.690	.721	*	.935	.764		*	27	.731	41	.703	*		
58	.673	.728	*	1.101	.712		*	28	.732	42	.703	*		
							*	29	.729	43	.703	*		
							*	30	.724	44	.703	*		
							*	31	.721	45	.703	*		
							*	32	.718					

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**************************   FICHIER AD125      N0(IT)=  1
/85  9H50 AS07 M=.7 I=+2(+1.5+ROT.30') R 2-5 ADAPTE 3D 1'ITE. AD125
9124 1'ITE.
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  MACH DE REFERENCE= .7031       UINF=  231.108 M/S
                TIV=300.7 K      PIV=  1522 MB
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MACH PAROIS HAUTE ET BASSE					MACH PAROIS LATER.				AILE AS07	
HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
.713	.694	PRISES DOUBLES			HUB. AMONT		33	.705	1	.668
.712	.699						34	.704	2	.683
.707	.700	59	.701	.702	1	.702	35	.703	3	.731
.702	.702	60	.705	.704	2	.701	36	.706	4	.788
.700	.705	61	.706	.696	3	.701	37	.705	5	.779
.702	.706				4	.702	38	.704	6	.737
.702	.704	PRISES LAT. GAUCHES			5	.700	39	.703	7	.663
.704	.702				6	.700	40	.703	8	.622
.705	.705	62	.704	.702	7	.700	41	.704	9	.414
.706	.700	63	.703	.706	8	.699	42	.704	10	1.291
.703	.702	64	.707	.705	9	.700	43	.702	11	1.256
.700	.702	65	.702	.702	10	.700	44	.702	12	.969
.702	.702	66	.703	.702	11	.702	45	.701	13	.935
.701	.704	67	.713	.706					14	.910
.701	.704	68	.713	.704	HUB. AVAL		HUB. DROIT		15	.894
.702	.702	69	.711	.704					16	.875
.704	.702	70	.713	.701	1	.706	1	.704	17	.868
.708	.703	71	.709	.703	2	.705	2	.704	18	.865
.707	.702	72	.706	.701	3	.704	3	.703	19	.857
.705	.703	73	.701	.703	4	.705	4	.703	20	.849
.703	.702				5	.704	5	.703	21	.832
.706	.702	PRISES LAT. DROITES			6	.704	6	.703	22	.831
.708	.701				7	.703	7	.704	23	.806
.706	.701	74	.705	.704	8	.704	8	.703	24	.655
.708	.700	75	.702	.702	9	.704	9	.703	25	.677
.708	.701	76	.704	.702	10	.700	10	.703	26	.739
.715	.700	77	.701	.700	11	.699	11	.703	27	.781
.716	.703	78	.702	.700			12	.703	28	.795
.722	.703	79	.705	.697	HUB. GAUCHE		13	.703	29	.716
.719	.704	80	.710	.699			14	.703	30	.666
.725	.700	81	.713	.699	1	.714	15	.703	31	.623
.721	.704	82	.712	.697	2	.713	16	.703	32	.585
.723	.703	83	.721	.699	3	.713	17	.703	33	1.366
.719	.701	84	.731	.701	4	.705	18	.703	34	1.276
.721	.700	85	.732	.703	5	.706	19	.703	35	1.138
.718	.701	86	.728	.702	6	.709	20	.703	36	1.014
.719	.699	87	.725	.701	7	.713	21	.703	37	.959
.717	.699	88	.722	.699	8	.716	22	.703	38	.931
.720	.699	89	.724	.698	9	.716	23	.703	39	.911
.717	.700	90	.716	.699	10	.714	24	.703	40	.893
.716	.699	91	.712	.699	11	.713	25	.703	41	.876
.716	.699	92	.709	.703	12	.712	26	.704	42	.864
.715	.698	93	.702	.702	13	.711	27	.704	43	.847
.713	.699	94	.709	.698	14	.710	28	.704	44	.825
.712	.699	95	.706	.695	15	.707	29	.703	45	.800
.709	.701	96	.700	.692	16	.705	30	.703	46	.794
.710	.703				17	.705	31	.703	47	.783
.710	.705				18	.705	32	.703	48	.740
.709	.704				19	.705	33	.703	49	.778
.707	.702				20	.706	34	.703	50	.731
.708	.700				21	.706	35	.703		
.707	.697	PRISES COL			22	.707	36	.703		
.708	.699				23	.706	37	.703		
.707	.701	.760	1.154		24	.710	38	.703		
.706	.700	.790	1.086		25	.712	39	.703		
.705	.699	.873	.862		26	.714	40	.703		
.703	.697	.929	.767		27	.717	41	.703		
.701	.691	1.096	.713		28	.718	42	.703		
					29	.715	43	.703		
					30	.711	44	.703		
					31	.709	45	.703		
					32	.707				

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*****************************   FICHIER AD126      N0(IT)=  1
21/ 8/85 10H 5 AS07 M=.8 I=+2(+1.5+ROT.30') R 2-5 NON ADAPTE AD126
DE AD445 1'ITE. PAROIS RECTILIGNES + 30'
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .8060      UINF=  231.108 M/S
                  TIV=300.3 K       PIV=  1653 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.819	.795	PRISES DOUBLES			HUB. AMONT		33	.839	1	.794
2	.818	.800						34	.836	2	.811
3	.811	.801	59	.801	.804	1	.808	35	.832	3	.879
4	.804	.803	60	.810	.809	2	.807	36	.827	4	.954
5	.800	.806	61	.820	.826	3	.808	37	.828	5	.982
6	.802	.808				4	.807	38	.830	6	.994
7	.801	.806	PRISES LAT. GAUCHES			5	.806	39	.831	7	1.757
8	.807	.806				6	.807	40	.835	8	1.713
9	.809	.812	62	.806	.802	7	.808	41	.840	9	1.448
10	.811	.804	63	.801	.813	8	.808	42	.840	10	1.463
11	.808	.806	64	.816	.815	9	.806	43	.829	11	1.504
12	.805	.807	65	.824	.816	10	.806	44	.827	12	1.483
13	.807	.806	66	.846	.824	11	.807	45	.825	13	1.443
14	.806	.809	67	.871	.825					14	1.390
15	.807	.809	68	.883	.826	HUB. AVAL		HUB. DROIT		15	1.123
16	.808	.808	69	.897	.832					16	1.089
17	.811	.809	70	.887	.831	1	.827	1	.806	17	1.079
18	.817	.812	71	.847	.829	2	.827	2	.806	18	1.112
19	.818	.813	72	.832	.835	3	.828	3	.807	19	1.114
20	.820	.815	73	.788	.835	4	.835	4	.806	20	1.143
21	.824	.815				5	.831	5	.806	21	1.159
22	.833	.814	PRISES LAT. DROITES			6	.830	6	.806	22	1.131
23	.842	.813				7	.828	7	.806	23	1.030
24	.847	.819	74	.808	.804	8	.830	8	.806	24	.744
25	.853	.821	75	.802	.806	9	.832	9	.806	25	.791
26	.858	.821	76	.808	.806	10	.830	10	.806	26	.862
27	.872	.817	77	.807	.804	11	.830	11	.806	27	.946
28	.877	.821	78	.808	.806			12	.806	28	.913
29	.895	.820	79	.817	.806	HUB. GAUCHE		13	.806	29	.842
30	.891	.821	80	.803	.811			14	.806	30	.784
31	.911	.816	81	.851	.810	1	.830	15	.806	31	.735
32	.904	.824	82	.860	.815	2	.877	16	.806	32	.441
33	.920	.823	83	.888	.814	3	.874	17	.806	33	1.393
34	.911	.822	84	.920	.816	4	.836	18	.806	34	1.540
35	.924	.822	85	.934	.821	5	.844	19	.806	35	1.622
36	.919	.826	86	.932	.823	6	.855	20	.806	36	1.561
37	.922	.823	87	.929	.824	7	.871	21	.806	37	1.519
38	.914	.825	88	.920	.822	8	.887	22	.806	38	1.501
39	.908	.824	89	.902	.822	9	.895	23	.806	39	1.493
40	.900	.824	90	.877	.825	10	.876	24	.806	40	1.480
41	.888	.823	91	.858	.827	11	.867	25	.806	41	1.473
42	.888	.824	92	.848	.830	12	.863	26	.806	42	1.468
43	.871	.824	93	.831	.829	13	.858	27	.806	43	1.463
44	.860	.827	94	.830	.829	14	.853	28	.806	44	1.194
45	.855	.825	95	.818	.850	15	.828	29	.806	45	1.034
46	.851	.828	96	.789	.848	16	.828	30	.806	46	.984
47	.848	.828				17	.830	31	.806	47	.941
48	.843	.831				18	.832	32	.806	48	.857
49	.838	.830				19	.834	33	.806	49	.833
50	.832	.831				20	.838	34	.806	50	.353
51	.830	.830				21	.841	35	.806		
52	.823	.827	PRISES COL			22	.845	36	.806		
53	.823	.829				23	.845	37	.806		
54	.822	.831		.881	1.233	24	.853	38	.806		
55	.820	.832		.873	.907	25	.859	39	.806		
56	.811	.833		.857	.862	26	.868	40	.806		
57	.798	.845		.999	.812	27	.882	41	.806		
58	.775	.864		1.157	.776	28	.891	42	.806		
						29	.874	43	.806		
						30	.856	44	.806		
						31	.848	45	.806		
						32	.843				

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**********************************   FICHIER AD127      NO(IT)=  1
31/ 8/85 10H20 AS07 M=.8 I=+2(+1.5+ROT.30') R 2-5 ADAPTE 3D 1'ITE. AD127
DE AD9126 1'ITE.
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MACH DE REFERENCE= .8056 UINF= 231.108 M/S
TIV=299.9 K PIV= 1651 MB

MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.820	.796	PRISES DOUBLES			HUB. AMONT		33	.805	1	.754
2	.819	.801						34	.804	2	.775
3	.812	.800	59	.801	.805	1	.804	35	.802	3	.841
4	.805	.803	60	.807	.807	2	.803	36	.807	4	.918
5	.801	.806	61	.804	.789	3	.802	37	.805	5	.998
6	.803	.808				4	.804	38	.804	6	.1036
7	.801	.807	PRISES LAT. GAUCHES			5	.802	39	.802	7	.1149
8	.806	.807				6	.801	40	.802	8	.713
9	.808	.812	62	.807	.802	7	.801	41	.803	9	.438
10	.808	.802	63	.799	.810	8	.800	42	.803	10	1.466
11	.805	.802	64	.811	.812	9	.803	43	.801	11	1.474
12	.802	.802	65	.807	.806	10	.803	44	.801	12	1.433
13	.804	.802	66	.806	.802	11	.805	45	.800	13	1.365
14	.804	.806	67	.810	.807					14	1.015
15	.805	.808	68	.808	.802	HUB. AVAL		HUB. DROIT		15	1.015
16	.806	.808	69	.812	.802					16	1.007
17	.807	.807	70	.818	.799	1	.804	1	.806	17	1.013
18	.809	.804	71	.807	.799	2	.802	2	.806	18	1.021
19	.809	.803	72	.804	.796	3	.801	3	.806	19	1.018
20	.809	.806	73	.809	.797	4	.802	4	.806	20	1.008
21	.807	.805				5	.800	5	.806	21	.980
22	.808	.802	PRISES LAT. DROITES			6	.800	6	.806	22	.959
23	.812	.799				7	.800	7	.806	23	.934
24	.812	.801	74	.810	.804	8	.801	8	.806	24	.730
25	.814	.803	75	.802	.807	9	.800	9	.806	25	.758
26	.813	.802	76	.806	.804	10	.796	10	.807	26	.828
27	.819	.799	77	.804	.800	11	.794	11	.806	27	.903
28	.818	.804	78	.803	.804			12	.806	28	.888
29	.825	.805	79	.808	.797	HUB. GAUCHE		13	.806	29	.824
30	.819	.805	80	.816	.801			14	.806	30	.765
31	.826	.799	81	.819	.798	1	.813	15	.806	31	.720
32	.820	.804	82	.818	.796	2	.813	16	.806	32	.419
33	.825	.803	83	.829	.798	3	.814	17	.806	33	1.564
34	.819	.799	84	.838	.802	4	.806	18	.806	34	1.589
35	.823	.799	85	.838	.804	5	.806	19	.806	35	1.562
36	.821	.798	86	.832	.803	6	.809	20	.806	36	1.487
37	.824	.796	87	.829	.800	7	.815	21	.806	37	1.450
38	.822	.796	88	.836	.796	8	.821	22	.806	38	1.430
39	.826	.794	89	.829	.793	9	.824	23	.806	39	1.403
40	.823	.794	90	.818	.794	10	.818	24	.805	40	1.288
41	.822	.794	91	.810	.797	11	.815	25	.805	41	.982
42	.823	.795	92	.809	.800	12	.814	26	.805	42	.946
43	.817	.795	93	.799	.799	13	.813	27	.805	43	.859
44	.810	.796	94	.806	.793	14	.811	28	.806	44	.937
45	.808	.795	95	.803	.796	15	.808	29	.806	45	.912
46	.806	.797	96	.808	.793	16	.806	30	.805	46	.911
47	.809	.799				17	.806	31	.805	47	.902
48	.808	.802				18	.806	32	.805	48	.901
49	.806	.800				19	.805	33	.805	49	.891
50	.804	.799				20	.806	34	.806	50	.829
51	.806	.795				21	.807	35	.805		
52	.806	.790	PRISES COL			22	.808	36	.806		
53	.808	.792				23	.806	37	.805		
54	.807	.793	.348	1.213		24	.811	38	.806		
55	.808	.793	.369	1.073		25	.814	39	.806		
56	.808	.793	.936	.887		26	.819	40	.806		
57	.810	.790	.881	.821		27	.823	41	.806		
58	.815	.777	1.141	.790		28	.825	42	.806		
						29	.818	43	.806		
						30	.810	44	.806		
						31	.806	45	.806		
						32	.806				

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*****************************   FICHIER AD128      N0(IT)=  1
21/ 3/85 10H35 AS07 M=.8 I=+2(+1.5+ROT.30') R 2-5 ADAPTE 3D 2'ITE. AD128
DE AD9127 1'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .8058      UINF=  231.108 M/S
                    TIV=299.8 K      PIV=  1649 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE ASS.	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MAC.
1	.819	.795	PRISES DOUBLES			HUB. AMONT		33	.809	1	
2	.818	.801						34	.807	2	
3	.811	.801	59	.805	.806	1	.802	35	.805	3	
4	.803	.802	60	.810	.808	2	.801	36	.807	4	
5	.800	.805	61	.803	.806	3	.801	37	.805	5	
6	.805	.809				4	.804	38	.804	6	
7	.805	.808	PRISES LAT. GAUCHES			5	.801	39	.803	7	
8	.809	.805				6	.801	40	.804	8	
9	.809	.809	62	.806	.801	7	.800	41	.807	9	
10	.811	.803	63	.801	.811	8	.799	42	.807	10	
11	.806	.804	64	.808	.810	9	.801	43	.803	11	
12	.800	.803	65	.808	.803	10	.801	44	.802	12	
13	.802	.802	66	.809	.800	11	.803	45	.800	13	
14	.802	.805	67	.822	.805					14	
15	.803	.807	68	.825	.804	HUB. AVAL		HUB. DROIT		15	
16	.803	.805	69	.831	.805					16	
17	.804	.805	70	.831	.802	1	.808	1	.806	17	
18	.806	.803	71	.814	.801	2	.807	2	.806	18	
19	.805	.800	72	.811	.809	3	.807	3	.806	19	
20	.807	.802	73	.805	.815	4	.810	4	.806	20	
21	.809	.802				5	.809	5	.806	21	
22	.813	.803	PRISES LAT. DROITES			6	.809	6	.806	22	
23	.817	.800				7	.808	7	.806	23	
24	.816	.800	74	.808	.804	8	.809	8	.807	24	
25	.817	.799	75	.805	.807	9	.810	9	.806	25	
26	.818	.799	76	.808	.804	10	.807	10	.806	26	
27	.826	.795	77	.802	.800	11	.808	11	.806	27	
28	.828	.801	78	.800	.801			12	.806	28	
29	.838	.801	79	.804	.794	HUB. GAUCHE		13	.806	29	
30	.833	.802	80	.817	.798			14	.806	30	
31	.844	.797	81	.825	.798	1	.826	15	.806	31	
32	.838	.803	82	.822	.793	2	.825	16	.806	32	.421
33	.845	.802	83	.838	.794	3	.825	17	.807	33	1.672
34	.839	.799	84	.854	.798	4	.810	18	.806	34	1.602
35	.844	.799	85	.857	.802	5	.811	19	.806	35	1.581
36	.842	.800	86	.853	.802	6	.817	20	.806	36	1.505
37	.844	.798	87	.850	.800	7	.825	21	.806	37	1.479
38	.841	.798	88	.847	.797	8	.833	22	.806	38	1.452
39	.842	.798	89	.843	.797	9	.836	23	.806	39	1.438
40	.837	.798	90	.829	.799	10	.828	24	.806	40	1.425
41	.834	.798	91	.819	.801	11	.824	25	.806	41	1.384
42	.824	.799	92	.816	.803	12	.823	26	.806	42	1.087
43	.827	.800	93	.807	.801	13	.820	27	.806	43	.356
44	.819	.801	94	.810	.805	14	.817	28	.806	44	.911
45	.817	.800	95	.803	.806	15	.809	29	.806	45	.305
46	.815	.801	96	.804	.802	16	.808	30	.806	46	.903
47	.816	.801				17	.808	31	.806	47	.911
48	.816	.804				18	.808	32	.806	48	.338
49	.816	.803				19	.808	33	.806	49	.893
50	.812	.805				20	.809	34	.806	50	.329
51	.811	.807				21	.811	35	.806		
52	.805	.806	PRISES COL			22	.813	36	.806		
53	.807	.810				23	.812	37	.806		
54	.808	.810	.858	1.230		24	.817	38	.806		
55	.809	.808	.866	.989		25	.821	39	.806		
56	.807	.806	.942	.881		26	.826	40	.806		
57	.807	.806	.986	.819		27	.833	41	.806		
58	.806	.803	1.147	.777		28	.835	42	.806		
						29	.827	43	.806		
						30	.818	44	.806		
						31	.813	45	.806		
						32	.811				

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*****************************   FICHIER AD129      N0(IT)=  1
21/ 8/85 10H50 AS07 M=.8 I=+2(+1.5+ROT.30') R 2-5 ADAPTE 3D 3'ITE. AD129
DE AD9128 1'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .8059      UINF=  231.108 M/S
                    TIV=299.8 K       PIV=  1649 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
						HUB. AMONT					
1	.820	.797	PRISES DOUBLES					33	.810	1	.763
2	.820	.803						34	.809	2	.781
3	.814	.803	59	.803	.805	1	.805	35	.807	3	.845
4	.806	.804	60	.807	.808	2	.803	36	.809	4	.932
5	.802	.806	61	.808	.805	3	.803	37	.809	5	.900
6	.805	.810				4	.805	38	.807	6	.837
7	.803	.806	PRISES LAT. GAUCHES			5	.802	39	.806	7	.747
8	.805	.803				6	.802	40	.807	8	.712
9	.806	.808	62	.809	.805	7	.801	41	.809	9	.441
10	.808	.803	63	.799	.812	8	.800	42	.809	10	1.475
11	.805	.806	64	.812	.809	9	.802	43	.804	11	1.479
12	.801	.807	65	.807	.806	10	.802	44	.803	12	1.434
13	.804	.805	66	.806	.805	11	.803	45	.802	13	1.364
14	.805	.808	67	.824	.808					14	1.059
15	.807	.807	68	.824	.804	HUB. AVAL		HUB. DROIT		15	1.028
16	.807	.804	69	.829	.805					16	1.014
17	.807	.803	70	.832	.805	1	.811	1	.806	17	1.024
18	.810	.805	71	.815	.802	2	.809	2	.806	18	1.040
19	.808	.805	72	.812	.810	3	.809	3	.806	19	1.039
20	.807	.807	73	.810	.814	4	.811	4	.806	20	1.029
21	.808	.805				5	.809	5	.806	21	1.001
22	.812	.802	PRISES LAT. DROITES			6	.809	6	.806	22	.974
23	.816	.799				7	.809	7	.806	23	.946
24	.813	.803	74	.811	.806	8	.810	8	.806	24	.733
25	.814	.805	75	.804	.808	9	.811	9	.806	25	.761
26	.815	.805	76	.806	.805	10	.807	10	.806	26	.832
27	.825	.802	77	.804	.803	11	.807	11	.806	27	.908
28	.828	.805	78	.805	.801			12	.806	28	.889
29	.840	.805	79	.807	.798	HUB. GAUCHE		13	.806	29	.823
30	.835	.805	80	.816	.801			14	.806	30	.756
31	.845	.799	81	.824	.797	1	.826	15	.806	31	.723
32	.838	.805	82	.819	.800	2	.826	16	.806	32	.427
33	.844	.803	83	.826	.799	3	.825	17	.806	33	1.575
34	.837	.800	84	.854	.801	4	.810	18	.806	34	1.604
35	.841	.799	85	.857	.804	5	.812	19	.807	35	1.581
36	.839	.800	86	.851	.803	6	.817	20	.806	36	1.510
37	.842	.798	87	.847	.801	7	.825	21	.806	37	1.474
38	.840	.800	88	.844	.798	8	.833	22	.806	38	1.455
39	.843	.799	89	.845	.799	9	.836	23	.806	39	1.440
40	.838	.800	90	.831	.802	10	.828	24	.806	40	1.423
41	.835	.800	91	.817	.804	11	.824	25	.806	41	1.363
42	.835	.801	92	.816	.803	12	.823	26	.806	42	1.039
43	.826	.802	93	.807	.803	13	.820	27	.806	43	.944
44	.817	.803	94	.813	.806	14	.818	28	.805	44	.932
45	.815	.802	95	.808	.791	15	.810	29	.806	45	.913
46	.813	.802	96	.808	.787	16	.808	30	.806	46	.913
47	.816	.801				17	.808	31	.806	47	.911
48	.817	.804				18	.810	32	.806	48	.836
49	.815	.805				19	.810	33	.806	49	.895
50	.812	.807				20	.811	34	.806	50	.835
51	.813	.808				21	.812	35	.806		
52	.811	.806	PRISES COL			22	.814	36	.806		
53	.811	.809				23	.812	37	.806		
54	.812	.810	.860	1.219		24	.818	38	.806		
55	.813	.806	.868	.987		25	.822	39	.806		
56	.811	.802	.943	.876		26	.827	40	.806		
57	.811	.796	.985	.817		27	.833	41	.806		
58	.811	.776	1.146	.777		28	.835	42	.806		
						29	.827	43	.806		
						30	.819	44	.806		
						31	.814	45	.806		
						32	.812				

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*****************************   FICHIER AD130      N0(IT)=  4
21/ 3/85 12H20    AS07 M=.7 I=1.5 R 2-5 ADAPTE 2D AD130
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .7071      UINF=  231.109 M/S
                     TIV=294.0 K      PIV=  1525 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				BILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.706	.702	PRISES DOUBLES			HUB. AMONT		33	.707	1	
2	.707	.707						34	.706	2	
3	.707	.705	59	.705	.704	1	.705	35	.705	3	
4	.704	.704	60	.708	.703	2	.704	36	.706	4	
5	.704	.705	61	.706	.703	3	.704	37	.706	5	
6	.707	.707				4	.704	38	.705	6	
7	.706	.705	PRISES LAT. GAUCHES			5	.703	39	.704	7	
8	.705	.702				6	.703	40	.705	8	
9	.706	.705	62	.705	.705	7	.703	41	.706	9	
10	.708	.700	63	.705	.708	8	.702	42	.706	10	
11	.707	.701	64	.710	.709	9	.703	43	.704	11	
12	.705	.703	65	.710	.704	10	.703	44	.703	12	
13	.706	.705	66	.710	.701	11	.703	45	.703	13	
14	.707	.709	67	.719	.706					14	
15	.707	.711	68	.716	.705	HUB. AVAL		HUB. DROIT		15	
16	.707	.706	69	.716	.705					16	
17	.707	.704	70	.720	.703	1	.708	1	.705	17	
18	.710	.704	71	.714	.703	2	.707	2	.705	18	
19	.709	.703	72	.709	.707	3	.707	3	.706	19	
20	.709	.704	73	.693	.710	4	.709	4	.706	20	
21	.711	.703				5	.707	5	.706	21	
22	.715	.702	PRISES LAT. DROITES			6	.707	6	.706	22	
23	.718	.700				7	.707	7	.706	23	
24	.716	.701	74	.706	.707	8	.708	8	.706	24	
25	.717	.701	75	.706	.705	9	.708	9	.706	25	
26	.717	.701	76	.707	.699	10	.705	10	.706	26	
27	.723	.700	77	.706	.708	11	.705	11	.706	27	
28	.724	.703	78	.706	.699			12	.706	28	
29	.730	.704	79	.707	.698	HUB. GAUCHE		13	.705	29	
30	.726	.704	80	.718	.700			14	.705	30	
31	.731	.700	81	.725	.699	1	.718	15	.706	31	
32	.726	.705	82	.722	.697	2	.718	16	.706	32	
33	.728	.704	83	.730	.698	3	.718	17	.706	33	
34	.723	.702	84	.738	.701	4	.711	18	.706	34	
35	.725	.702	85	.739	.703	5	.711	19	.706	35	
36	.723	.703	86	.733	.703	6	.714	20	.706	36	
37	.725	.701	87	.739	.702	7	.717	21	.706	37	
38	.724	.702	88	.729	.700	8	.720	22	.706	38	
39	.727	.701	89	.731	.700	9	.721	23	.706	39	
40	.724	.701	90	.724	.703	10	.719	24	.705	40	
41	.724	.702	91	.718	.704	11	.717	25	.705	41	
42	.724	.702	92	.715	.703	12	.716	26	.705	42	
43	.721	.703	93	.706	.703	13	.715	27	.705	43	
44	.718	.704	94	.707	.704	14	.713	28	.705	44	
45	.717	.703	95	.705	.704	15	.710	29	.705	45	
46	.715	.704	96	.691	.701	16	.708	30	.705	46	
47	.716	.703				17	.708	31	.705	47	
48	.715	.705				18	.709	32	.705	48	
49	.713	.705				19	.708	33	.705	49	
50	.708	.706				20	.709	34	.705	50	
51	.709	.706				21	.710	35	.705		
52	.708	.704	PRISES COL			22	.711	36	.705		
53	.708	.706				23	.709	37	.705		
54	.708	.707	.761	1.155		24	.710	38	.705		
55	.707	.705	.796	1.062		25	.714	39	.705		
56	.702	.703	.875	.863		26	.717	40	.706		
57	.696	.703	.931	.771		27	.719	41	.706		
58	.685	.703	1.006	.716		28	.721	42	.705		
						29	.718	43	.705		
						30	.714	44	.705		
						31	.711	45	.705		
						32	.709				

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*****************************   FICHIER AD131      N0(IT)=  4
21/ 8/85 14H50  AS07  M=.6  I=1.5  R 2-5  ADAPTE 2D AD131
DE AD130 4'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .6019      UINF=  231.108 M/S
                     TIV=296.4 K      PIV=  1393 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.604	.600	PRISES DOUBLES				HUB. AMONT		33	.603		1	.572
2	.604	.603							34	.602		2	.581
3	.603	.601		59	.602	.600	1	.602	35	.601		3	.623
4	.601	.601		60	.604	.600	2	.601	36	.602		4	.669
5	.601	.602		61	.602	.599	3	.601	37	.602		5	.658
6	.603	.603					4	.601	38	.601		6	.617
7	.602	.601	PRISES LAT. GAUCHES				5	.600	39	.600		7	.566
8	.603	.601					6	.600	40	.601		8	.529
9	.602	.602		62	.602	.602	7	.600	41	.601		9	.875
10	.604	.598		63	.605	.604	8	.599	42	.601		10	1.021
11	.602	.597		64	.603	.603	9	.600	43	.599		11	.886
12	.601	.599		65	.605	.601	10	.599	44	.599		12	.828
13	.602	.600		66	.606	.599	11	.600	45	.599		13	.784
14	.601	.602		67	.609	.602						14	.765
15	.602	.605		68	.609	.601	HUB. AVAL		HUB. DROIT			15	.750
16	.602	.601		69	.609	.602						16	.735
17	.601	.598		70	.612	.599	1	.604	1	.602		17	.728
18	.603	.598		71	.607	.600	2	.603	2	.602		18	.726
19	.603	.598		72	.604	.602	3	.604	3	.601		19	.719
20	.606	.601		73	.596	.603	4	.604	4	.602		20	.711
21	.605	.600					5	.603	5	.602		21	.699
22	.607	.599	PRISES LAT. DROITES				6	.603	6	.602		22	.691
23	.608	.597					7	.603	7	.602		23	.682
24	.608	.597		74	.603	.603	8	.605	8	.601		24	.560
25	.610	.597		75	.602	.602	9	.603	9	.602		25	.575
26	.609	.597		76	.602	.597	10	.602	10	.602		26	.632
27	.613	.596		77	.602	.603	11	.602	11	.602		27	.661
28	.613	.599		78	.600	.595			12	.602		29	.646
29	.616	.599		79	.602	.594	HUB. GAUCHE		13	.601		29	.604
30	.614	.599		80	.612	.598			14	.602		30	.566
31	.617	.596		81	.613	.595	1	.610	15	.602		31	.521
32	.614	.599		82	.614	.595	2	.609	16	.602		32	.340
33	.616	.599		83	.618	.596	3	.609	17	.601		33	1.108
34	.613	.599		84	.622	.597	4	.605	18	.602		34	.986
35	.615	.598		85	.623	.599	5	.605	19	.602		35	.861
36	.613	.599		86	.620	.599	6	.608	20	.601		36	.806
37	.615	.598		87	.619	.599	7	.609	21	.602		37	.785
38	.615	.598		88	.618	.598	8	.611	22	.602		38	.773
39	.617	.598		89	.621	.598	9	.612	23	.602		39	.760
40	.615	.598		90	.616	.599	10	.611	24	.602		40	.746
41	.615	.598		91	.610	.600	11	.609	25	.602		41	.734
42	.615	.599		92	.608	.599	12	.609	26	.601		42	.727
43	.613	.599		93	.602	.599	13	.607	27	.602		43	.713
44	.610	.599		94	.603	.600	14	.607	28	.601		44	.697
45	.608	.599		95	.601	.595	15	.604	29	.601		45	.678
46	.607	.599		96	.593	.593	16	.603	30	.602		46	.674
47	.609	.599					17	.603	31	.602		47	.665
48	.608	.600					18	.603	32	.602		48	.638
49	.606	.600					19	.604	33	.602		49	.663
50	.603	.600					20	.603	34	.602		50	.625
51	.604	.601					21	.604	35	.602			
52	.603	.600		PRISES COL			22	.605	36	.602			
53	.604	.601					23	.603	37	.602			
54	.604	.601			.663	1.060	24	.607	38	.602			
55	.602	.599			.698	.912	25	.608	39	.601			
56	.600	.598			.799	.797	26	.608	40	.602			
57	.597	.596			.865	.694	27	.611	41	.602			
58	.593	.593			1.024	.634	28	.611	42	.602			
							29	.609	43	.601			
							30	.608	44	.601			
							31	.606	45	.602			
							32	.604					

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**************************   FICHIER AD133      NOMIT)=  4
21/ 8/85 15H55 A907   M=.8  I=0    R 2-5  ADAPTE 2D  AD133
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
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       MACH DE REFERENCE= .8078      UINF=  231.108 M/S
                          TIV=296.2 K      PIV=  1653 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE A907	
I	HAUT	BAS	I	HAUT	BAS		I	MACH	I	MACH		I	MACH
1	.809	.804	PRISES DOUBLES				HUB. AMONT		33	.813		1	.770
2	.811	.812							34	.812		2	.785
3	.809	.809	59	.810	.810		1	.803	35	.811		3	.870
4	.804	.805	60	.810	.804		2	.803	36	.811		4	.960
5	.803	.807	61	.804	.804		3	.802	37	.811		5	.941
6	.810	.812					4	.803	38	.811		6	.933
7	.810	.812	PRISES LAT. GAUCHES				5	.801	39	.811		7	.930
8	.810	.807					6	.801	40	.813		8	.721
9	.809	.809	62	.806	.806		7	.801	41	.813		9	.419
10	.811	.799	63	.802	.812		8	.800	42	.812		10	1.339
11	.806	.797	64	.813	.813		9	.801	43	.810		11	1.313
12	.800	.798	65	.811	.808		10	.801	44	.809		12	1.235
13	.802	.803	66	.815	.806		11	.802	45	.808		13	1.013
14	.803	.812	67	.821	.810							14	1.007
15	.805	.819	68	.821	.811		HUB. AVAL		HUB. DROIT			15	1.002
16	.806	.808	69	.826	.812							16	.990
17	.807	.802	70	.824	.806		1	.808	1	.806		17	.991
18	.810	.802	71	.814	.804		2	.807	2	.806		18	.997
19	.808	.802	72	.812	.810		3	.807	3	.807		19	.993
20	.809	.807	73	.798	.816		4	.809	4	.807		20	.985
21	.809	.806					5	.807	5	.807		21	.975
22	.813	.803	PRISES LAT. DROITES				6	.807	6	.807		22	.964
23	.817	.801					7	.807	7	.807		23	.949
24	.819	.805	74	.807	.812		8	.807	8	.807		24	.745
25	.820	.809	75	.811	.811		9	.809	9	.807		25	.779
26	.821	.808	76	.809	.798		10	.806	10	.807		26	.956
27	.826	.807	77	.803	.812		11	.807	11	.807		27	.943
28	.826	.810	78	.805	.795				12	.807		28	.941
29	.832	.811	79	.807	.797		HUB. GAUCHE		13	.807		29	.931
30	.827	.811	80	.818	.805				14	.807		30	.944
31	.835	.808	81	.825	.803		1	.823	15	.807		31	.925
32	.830	.814	82	.823	.807		2	.822	16	.807		32	.406
33	.835	.814	83	.834	.808		3	.822	17	.807		33	1.517
34	.831	.810	84	.844	.811		4	.812	18	.807		34	1.432
35	.835	.811	85	.845	.814		5	.813	19	.807		35	1.183
36	.834	.811	86	.843	.815		6	.816	20	.807		36	1.187
37	.836	.809	87	.841	.813		7	.822	21	.807		37	.997
38	.832	.808	88	.839	.809		8	.826	22	.807		38	1.011
39	.834	.806	89	.837	.805		9	.827	23	.807		39	1.043
40	.829	.804	90	.826	.805		10	.822	24	.807		40	1.021
41	.827	.804	91	.817	.806		11	.821	25	.807		41	1.000
42	.827	.804	92	.817	.805		12	.820	26	.807		42	.994
43	.822	.804	93	.808	.805		13	.818	27	.807		43	.980
44	.815	.805	94	.810	.807		14	.817	28	.807		44	.973
45	.814	.803	95	.804	.799		15	.812	29	.807		45	.921
46	.812	.805	96	.796	.797		16	.810	30	.808		46	.915
47	.816	.803					17	.811	31	.807		47	.911
48	.816	.806					18	.811	32	.807		48	.899
49	.814	.806					19	.811	33	.808		49	.899
50	.810	.806					20	.812	34	.807		50	.921
51	.811	.808					21	.813	35	.807			
52	.806	.805	PRISES COL				22	.815	36	.807			
53	.807	.809					23	.813	37	.807			
54	.809	.810		.856	1.215		24	.818	38	.808			
55	.809	.807		.872	1.182		25	.821	39	.807			
56	.804	.803		.940	.896		26	.823	40	.808			
57	.801	.801		.984	.825		27	.827	41	.807			
58	.793	.793		1.142	.781		28	.829	42	.807			
							29	.824	43	.807			
							30	.816	44	.807			
							31	.812	45	.808			
							32	.815					

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*****************************   FICHIER AD134      NO(IT)=  4
21/ 8/85 17H15  AS07  M=.8  I=0    R 2-5  ADAPTE 2D     AD134
DE AD133  4'ITE
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      MACH DE REFERENCE= .8085       UINF=  231.108 M/S
                    TIV=297.1 K       PIV=  1652 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.811	.805	PRISES DOUBLES			HUB. AMONT		33	.813	1	.774
2	.814	.814						34	.812	2	.797
3	.812	.812	59	.809	.810	1	.806	35	.811	3	.872
4	.806	.808	60	.809	.807	2	.804	36	.811	4	.960
5	.805	.809	61	.804	.800	3	.803	37	.810	5	.944
6	.811	.813				4	.804	38	.810	6	.885
7	.809	.811	PRISES LAT. GAUCHES			5	.802	39	.810	7	.804
8	.807	.804				6	.802	40	.812	8	.795
9	.806	.806	62	.809	.809	7	.802	41	.814	9	.424
10	.810	.802	63	.800	.812	8	.800	42	.812	10	1.359
11	.806	.805	64	.813	.807	9	.802	43	.809	11	1.332
12	.801	.805	65	.809	.807	10	.802	44	.808	12	1.233
13	.803	.805	66	.815	.806	11	.802	45	.807	13	1.019
14	.805	.809	67	.820	.809					14	1.012
15	.807	.808	68	.822	.809	HUB. AVAL		HUB. DROIT		15	1.006
16	.808	.802	69	.825	.811					16	.995
17	.809	.801	70	.824	.809	1	.808	1	.808	17	.995
18	.811	.803	71	.814	.804	2	.808	2	.808	18	1.001
19	.808	.804	72	.810	.807	3	.807	3	.808	19	.998
20	.807	.808	73	.797	.816	4	.810	4	.808	20	1.000
21	.807	.807				5	.807	5	.808	21	.981
22	.814	.804	PRISES LAT. DROITES			6	.807	6	.808	22	.957
23	.819	.801				7	.807	7	.808	23	.944
24	.820	.805	74	.810	.814	8	.808	8	.808	24	.749
25	.821	.809	75	.810	.811	9	.809	9	.808	25	.779
26	.821	.809	76	.807	.803	10	.806	10	.808	26	.860
27	.826	.807	77	.804	.805	11	.806	11	.808	27	.957
28	.825	.810	78	.807	.798			12	.808	28	.947
29	.832	.811	79	.806	.799	HUB. GAUCHE		13	.808	29	.891
30	.827	.811	80	.814	.805			14	.808	30	.843
31	.835	.807	81	.827	.802	1	.823	15	.808	31	.826
32	.831	.813	82	.824	.807	2	.823	16	.808	32	.410
33	.837	.813	83	.834	.807	3	.822	17	.808	33	1.523
34	.832	.809	84	.844	.810	4	.813	18	.808	34	1.454
35	.836	.809	85	.846	.814	5	.813	19	.808	35	1.380
36	.834	.810	86	.843	.813	6	.817	20	.808	36	1.366
37	.836	.808	87	.842	.810	7	.822	21	.808	37	1.005
38	.833	.809	88	.839	.808	8	.826	22	.808	38	1.029
39	.835	.809	89	.838	.807	9	.827	23	.808	39	1.050
40	.829	.808	90	.825	.808	10	.823	24	.808	40	1.029
41	.827	.808	91	.817	.807	11	.821	25	.808	41	1.008
42	.828	.807	92	.817	.804	12	.820	26	.808	42	1.000
43	.822	.807	93	.807	.805	13	.819	27	.808	43	.987
44	.816	.806	94	.810	.804	14	.818	28	.808	44	.959
45	.815	.804	95	.805	.796	15	.818	29	.808	45	.927
46	.813	.805	96	.795	.793	16	.810	30	.808	46	.921
47	.816	.803				17	.810	31	.808	47	.912
48	.816	.806				18	.811	32	.808	48	.940
49	.815	.806				19	.811	33	.808	49	.900
50	.810	.806				20	.812	34	.808	50	.830
51	.810	.805				21	.813	35	.808		
52	.806	.801	PRISES COL			22	.815	36	.808		
53	.809	.807				23	.813	37	.808		
54	.810	.810		.858	1.217	24	.818	38	.808		
55	.810	.807		.873	1.169	25	.820	39	.808		
56	.805	.803		.942	.895	26	.823	40	.808		
57	.801	.799		.985	.823	27	.827	41	.808		
58	.793	.787		1.144	.782	28	.829	42	.808		
						29	.824	43	.808		
						30	.816	44	.808		
						31	.812	45	.808		
						32	.814				

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*****************************   FICHIER AD135      N0(IT)=  4
22/ 8/85  9H30  AS07  M=.7  I=0    R 2-5  ADAPTE 2D     AD135
DE AD134  4'ITE
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .7021      UINF=  231.108 M/S
                    TIW=297.2 K       PIW=  1521 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.703	.700	PRISES DOUBLES				HUB. AMONT		33	.704		1	.672
2	.704	.704							34	.703		2	.689
3	.703	.702	59		.700	.701	1	.700	35	.702		3	.742
4	.700	.702	60		.703	.700	2	.699	36	.703		4	.800
5	.699	.703	61		.702	.701	3	.699	37	.702		5	.797
6	.702	.704					4	.700	38	.702		6	.762
7	.701	.702	PRISES LAT. GAUCHES				5	.698	39	.702		7	.707
8	.702	.700					6	.698	40	.703		8	.691
9	.702	.702	62		.701	.703	7	.698	41	.704		9	.686
10	.704	.697	63		.701	.704	8	.697	42	.704		10	1.088
11	.702	.697	64		.704	.705	9	.698	43	.702		11	1.054
12	.699	.698	65		.706	.701	10	.698	44	.701		12	.935
13	.701	.698	66		.703	.696	11	.699	45	.700		13	.887
14	.701	.700	67		.713	.702						14	.870
15	.701	.702	68		.710	.701	HUB. AVAL		HUB. DROIT			15	.858
16	.701	.702	69		.710	.702						16	.845
17	.701	.702	70		.715	.702	1	.704	1	.702		17	.842
18	.704	.699	71		.707	.700	2	.703	2	.702		18	.843
19	.704	.698	72		.703	.702	3	.703	3	.702		19	.838
20	.707	.700	73		.695	.705	4	.704	4	.702		20	.835
21	.706	.701					5	.702	5	.702		21	.822
22	.707	.701	PRISES LAT. DROITES				6	.703	6	.702		22	.815
23	.707	.700					7	.702	7	.702		23	.803
24	.706	.699	74		.702	.704	8	.703	8	.702		24	.557
25	.708	.699	75		.701	.703	9	.704	9	.702		25	.680
26	.708	.699	76		.702	.697	10	.702	10	.702		26	.738
27	.714	.699	77		.701	.697	11	.702	11	.702		27	.796
28	.716	.703	78		.699	.698			12	.702		28	.792
29	.721	.704	79		.703	.695	HUB. GAUCHE		13	.702		29	.759
30	.718	.704	80		.712	.699			14	.702		30	.725
31	.722	.701	81		.712	.701	1	.711	15	.701		31	.707
32	.717	.704	82		.711	.698	2	.711	16	.702		32	.358
33	.719	.704	83		.719	.698	3	.710	17	.702		33	1.196
34	.714	.701	84		.728	.701	4	.704	18	.702		34	1.075
35	.715	.701	85		.728	.704	5	.705	19	.702		35	.922
36	.714	.701	86		.723	.703	6	.707	20	.702		36	.894
37	.717	.700	87		.720	.702	7	.710	21	.702		37	.886
38	.717	.700	88		.719	.700	8	.712	22	.702		38	.879
39	.721	.700	89		.725	.699	9	.713	23	.702		39	.869
40	.718	.700	90		.718	.701	10	.711	24	.702		40	.856
41	.718	.700	91		.708	.703	11	.710	25	.701		41	.844
42	.718	.700	92		.709	.701	12	.709	26	.701		42	.838
43	.713	.701	93		.702	.699	13	.708	27	.701		43	.829
44	.708	.702	94		.704	.700	14	.708	28	.701		44	.812
45	.706	.701	95		.701	.698	15	.704	29	.701		45	.793
46	.705	.702	96		.693	.695	16	.703	30	.701		46	.790
47	.709	.700					17	.704	31	.701		47	.781
48	.709	.701					18	.704	32	.702		48	.743
49	.708	.700					19	.704	33	.702		49	.777
50	.705	.700					20	.704	34	.702		50	.729
51	.704	.701					21	.705	35	.702			
52	.704	.701	PRISES COL				22	.705	36	.702			
53	.704	.702					23	.704	37	.702			
54	.703	.700			.755	1.148	24	.707	38	.702			
55	.703	.699			.739	1.098	25	.708	39	.702			
56	.700	.697			.868	.863	26	.710	40	.702			
57	.697	.696			.926	.767	27	.712	41	.702			
58	.692	.697			1.092	.711	28	.714	42	.702			
							29	.711	43	.702			
							30	.707	44	.702			
							31	.706	45	.702			
							32	.705					

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*****************************   FICHIER AD136      N0(IT)=  4
22/ 8/85  9H55  AS07  M=.6  I=0    R 2-5  ADAPTE 2D    AD136
DE AD135  4'ITE
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .5972      UINF=  231.108 M/S
                        TIV=295.8 K      PIV=  1393 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.598	.596	PRISES DOUBLES			HUB. AMONT		33	.598	1	.569
2	.598	.599						34	.598	2	.583
3	.599	.598	59	.597	.597	1	.596	35	.597	3	.619
4	.598	.598	60	.598	.597	2	.596	36	.598	4	.680
5	.598	.598	61	.596	.596	3	.596	37	.597	5	.673
6	.599	.599				4	.596	38	.596	6	.642
7	.597	.597	PRISES LAT. GAUCHES			5	.595	39	.596	7	.601
8	.597	.596				6	.595	40	.596	8	.584
9	.598	.597	62	.598	.598	7	.595	41	.597	9	.838
10	.598	.594	63	.598	.599	8	.594	42	.597	10	.881
11	.597	.596	64	.599	.597	9	.595	43	.596	11	.835
12	.596	.596	65	.599	.596	10	.595	44	.595	12	.769
13	.597	.596	66	.600	.595	11	.595	45	.595	13	.738
14	.596	.596	67	.602	.598					14	.724
15	.596	.596	68	.602	.598	HUB. AVAL		HUB. DROIT		15	.715
16	.596	.594	69	.602	.598					16	.705
17	.597	.595	70	.605	.595	1	.598	1	.598	17	.701
18	.599	.595	71	.600	.596	2	.598	2	.598	18	.701
19	.598	.596	72	.597	.596	3	.597	3	.598	19	.696
20	.599	.597	73	.594	.598	4	.598	4	.598	20	.693
21	.600	.597				5	.597	5	.598	21	.683
22	.602	.594	PRISES LAT. DROITES			6	.597	6	.598	22	.680
23	.603	.593				7	.597	7	.598	23	.671
24	.602	.595	74	.599	.599	8	.598	8	.598	24	.659
25	.603	.596	75	.597	.597	9	.598	9	.598	25	.578
26	.602	.596	76	.597	.594	10	.596	10	.598	26	.624
27	.605	.596	77	.596	.594	11	.596	11	.598	27	.670
28	.605	.598	78	.596	.592			12	.598	28	.664
29	.608	.598	79	.597	.592	HUB. GAUCHE		13	.598	29	.635
30	.606	.598	80	.604	.595			14	.597	30	.610
31	.608	.596	81	.606	.593	1	.603	15	.597	31	.595
32	.606	.599	82	.605	.594	2	.602	16	.597	32	.310
33	.607	.599	83	.609	.596	3	.602	17	.597	33	.939
34	.605	.597	84	.612	.598	4	.599	18	.597	34	.797
35	.606	.597	85	.613	.599	5	.599	19	.597	35	.753
36	.606	.598	86	.610	.598	6	.600	20	.597	36	.740
37	.607	.596	87	.609	.598	7	.602	21	.597	37	.733
38	.606	.596	88	.609	.596	8	.604	22	.597	38	.727
39	.610	.595	89	.614	.595	9	.604	23	.597	39	.721
40	.608	.595	90	.608	.595	10	.604	24	.597	40	.711
41	.608	.595	91	.604	.596	11	.602	25	.597	41	.703
42	.609	.595	92	.602	.596	12	.602	26	.597	42	.698
43	.607	.596	93	.597	.595	13	.601	27	.597	43	.692
44	.604	.596	94	.598	.594	14	.600	28	.598	44	.680
45	.603	.596	95	.595	.595	15	.598	29	.598	45	.669
46	.602	.597	96	.593	.593	16	.598	30	.597	46	.666
47	.602	.596				17	.597	31	.597	47	.658
48	.601	.596				18	.597	32	.598	48	.638
49	.600	.595				19	.597	33	.598	49	.657
50	.598	.595				20	.598	34	.598	50	.624
51	.598	.595				21	.598	35	.598		
52	.597	.596	PRISES COL			22	.599	36	.598		
53	.597	.596				23	.597	37	.598		
54	.597	.595	.652	1.041		24	.600	38	.597		
55	.597	.594	.696	.923		25	.601	39	.597		
56	.596	.594	.791	.801		26	.602	40	.597		
57	.595	.594	.857	.694		27	.604	41	.597		
58	.597	.598	1.014	.632		28	.605	42	.597		
						29	.603	43	.597		
						30	.601	44	.597		
						31	.600	45	.597		
						32	.598				

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*****************************   FICHIER AD137      N0(IT)=  1
22/ 8/85 10H25  AS07  M=.6  I=0(-30'+ROT.30') R 2-5 NON ADAPTE AD137
DE AD445  1'ITE PAROIS RECTILIGNES + 30'
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       MACH DE REFERENCE= .5979      UINF=  231.108 M/S
                    TIV=301.0 K       PIV=  1393 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.605	.591	PRISES DOUBLES				HUB. AMONT		33	.605	1	.574
2	.604	.595							34	.604	2	.598
3	.601	.596		59	.597	.598	1	.599	35	.604	3	.600
4	.597	.597		60	.598	.597	2	.599	36	.603	4	.604
5	.595	.599		61	.597	.601	3	.599	37	.603	5	.601
6	.598	.600					4	.598	38	.603	6	.644
7	.597	.597	PRISES LAT. GAUCHES				5	.598	39	.603	7	.607
8	.598	.597					6	.598	40	.604	8	.611
9	.598	.598		62	.599	.597	7	.598	41	.604	9	.608
10	.598	.595		63	.600	.601	8	.598	42	.604	10	.608
11	.596	.596		64	.602	.602	9	.597	43	.603	11	.644
12	.594	.596		65	.603	.600	10	.598	44	.602	12	.717
13	.595	.595		66	.609	.599	11	.598	45	.601	13	.714
14	.596	.597		67	.613	.606					14	.703
15	.597	.598		68	.614	.604	HUB. AVAL		HUB. DROIT		15	.722
16	.598	.597		69	.614	.604					16	.712
17	.599	.598		70	.614	.603	1	.601	1	.598	17	.708
18	.602	.599		71	.607	.602	2	.602	2	.599	18	.708
19	.603	.599		72	.602	.604	3	.602	3	.599	19	.703
20	.603	.600		73	.598	.606	4	.600	4	.598	20	.701
21	.603	.600					5	.602	5	.598	21	.691
22	.607	.600	PRISES LAT. DROITES				6	.602	6	.598	22	.681
23	.610	.599					7	.602	7	.598	23	.670
24	.611	.600		74	.600	.599	8	.603	8	.598	24	.663
25	.612	.599		75	.597	.598	9	.604	9	.598	25	.658
26	.612	.600		76	.598	.597	10	.602	10	.598	26	.652
27	.615	.600		77	.597	.596	11	.602	11	.598	27	.647
28	.616	.603		78	.599	.597			12	.598	28	.644
29	.618	.605		79	.601	.597	HUB. GAUCHE		13	.598	29	.641
30	.617	.605		80	.608	.599			14	.598	30	.614
31	.621	.603		81	.614	.600	1	.612	15	.598	31	.598
32	.618	.606		82	.615	.599	2	.612	16	.598	32	.313
33	.619	.604		83	.618	.601	3	.612	17	.598	33	.852
34	.617	.602		84	.623	.605	4	.606	18	.598	34	.812
35	.619	.602		85	.624	.605	5	.606	19	.598	35	.788
36	.618	.603		86	.623	.605	6	.608	20	.598	36	.743
37	.619	.601		87	.621	.603	7	.610	21	.597	37	.743
38	.617	.601		88	.621	.601	8	.613	22	.597	38	.728
39	.619	.601		89	.623	.601	9	.612	23	.597	39	.721
40	.616	.600		90	.617	.603	10	.611	24	.597	40	.720
41	.616	.601		91	.611	.604	11	.610	25	.597	41	.711
42	.616	.601		92	.609	.602	12	.610	26	.598	42	.707
43	.614	.603		93	.601	.601	13	.609	27	.598	43	.701
44	.611	.604		94	.602	.602	14	.608	28	.597	44	.688
45	.610	.603		95	.595	.606	15	.604	29	.598	45	.674
46	.609	.603		96	.577	.604	16	.603	30	.598	46	.674
47	.609	.601					17	.603	31	.598	47	.666
48	.606	.601					18	.604	32	.598	48	.644
49	.604	.601					19	.604	33	.598	49	.636
50	.601	.602					20	.605	34	.598	50	.630
51	.601	.602					21	.605	35	.598		
52	.599	.601		PRISES COL			22	.605	36	.598		
53	.597	.602					23	.604	37	.598		
54	.595	.602			.565	1.062	24	.607	38	.598		
55	.592	.602			.694	.907	25	.608	39	.598		
56	.587	.602			.801	.795	26	.609	40	.598		
57	.580	.604			.867	.692	27	.611	41	.598		
58	.572	.608			1.027	.638	28	.611	42	.598		
							29	.610	43	.598		
							30	.608	44	.598		
							31	.606	45	.598		
							32	.606				

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**********************************  FICHIER AD138      N0(IT)=  1
22/ 8/85 10H45  AS07  M=.6  I=0(-30'+ROT.30') R 2-5 ADAPTE 3D AD138
DE AD9137 1'ITE
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       MACH DE REFERENCE= .5985      UINF=  231.108 M/S
                        TIV=300.6 K      PIV=  1392 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					HILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.606	.591	PRISES DOUBLES				HUB. AMONT		33	.601		1	.570
2	.605	.595							34	.601		2	.581
3	.601	.595		59	.597	.599	1	.600	35	.601		3	.623
4	.597	.597		60	.600	.600	2	.599	36	.601		4	.681
5	.596	.599		61	.601	.599	3	.598	37	.601		5	.630
6	.597	.601					4	.598	38	.601		6	.651
7	.597	.599	PRISES LAT. GAUCHES				5	.598	39	.600		7	.611
8	.598	.599					6	.599	40	.601		8	.599
9	.599	.601		62	.598	.596	7	.598	41	.601		9	.800
10	.600	.597		63	.600	.602	8	.597	42	.601		10	.862
11	.598	.597		64	.602	.603	9	.598	43	.600		11	.822
12	.597	.597		65	.600	.599	10	.598	44	.600		12	.764
13	.599	.597		66	.602	.601	11	.599	45	.598		13	.732
14	.600	.599		67	.604	.601						14	.720
15	.600	.599		68	.603	.601	HUB. AVAL		HUB. DROIT			15	.712
16	.600	.599		69	.604	.602						16	.702
17	.599	.600		70	.606	.599	1	.602	1	.599		17	.698
18	.599	.600		71	.601	.601	2	.602	2	.599		18	.698
19	.599	.600		72	.602	.599	3	.602	3	.598		19	.693
20	.602	.602		73	.591	.604	4	.602	4	.598		20	.692
21	.601	.600					5	.601	5	.598		21	.682
22	.602	.597	PRISES LAT. DROITES				6	.601	6	.599		22	.680
23	.602	.596					7	.602	7	.599		23	.672
24	.603	.600		74	.600	.598	8	.604	8	.599		24	.561
25	.606	.603		75	.597	.599	9	.604	9	.599		25	.581
26	.605	.602		76	.598	.597	10	.602	10	.599		26	.627
27	.607	.602		77	.598	.596	11	.601	11	.599		27	.673
28	.607	.602		78	.598	.598			12	.599		28	.672
29	.608	.601		79	.598	.597	HUB. GAUCHE		13	.599		29	.649
30	.606	.601		80	.605	.598			14	.599		30	.625
31	.609	.598		81	.605	.596	1	.605	15	.598		31	.617
32	.607	.602		82	.607	.601	2	.605	16	.598		32	.303
33	.608	.602		83	.610	.602	3	.604	17	.598		33	.899
34	.606	.601		84	.613	.601	4	.601	18	.598		34	.772
35	.607	.601		85	.614	.602	5	.601	19	.598		35	.740
36	.606	.601		86	.611	.603	6	.603	20	.599		36	.730
37	.607	.600		87	.610	.602	7	.605	21	.599		37	.724
38	.607	.600		88	.610	.601	8	.606	22	.599		38	.721
39	.610	.600		89	.614	.599	9	.607	23	.599		39	.716
40	.609	.600		90	.609	.599	10	.606	24	.599		40	.707
41	.609	.599		91	.604	.598	11	.604	25	.599		41	.699
42	.609	.599		92	.603	.600	12	.605	26	.599		42	.695
43	.607	.598		93	.600	.600	13	.604	27	.598		43	.690
44	.604	.598		94	.603	.598	14	.604	28	.599		44	.680
45	.603	.598		95	.598	.603	15	.602	29	.599		45	.667
46	.602	.599		96	.589	.601	16	.601	30	.599		46	.666
47	.604	.601					17	.601	31	.599		47	.660
48	.604	.602					18	.601	32	.599		48	.640
49	.604	.601					19	.601	33	.599		49	.660
50	.602	.600					20	.602	34	.599		50	.627
51	.602	.599					21	.602	35	.599			
52	.600	.598		PRISES COL			22	.603	36	.599			
53	.601	.601					23	.601	37	.598			
54	.600	.602			.666	1.064	24	.604	38	.599			
55	.600	.602			.692	.807	25	.604	39	.598			
56	.597	.602			.802	.795	26	.605	40	.598			
57	.594	.603			.868	.692	27	.607	41	.598			
58	.589	.605			1.028	.632	28	.608	42	.598			
							29	.606	43	.598			
							30	.604	44	.598			
							31	.604	45	.598			
							32	.602					

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*****************************   FICHIER AD139      N0(IT)=  1
22/ 8/85 11H 0  AS07  M=.8  I=0(-30'+ROT.30') R 2-5 NON ADAPTE AD139
DE AD445  1'ITE PAROIS RECTILIGNES + 30'
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .8043      UINF=  231.108 M/S
                 TIV=301.2 K         PIV=  1651 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.817	.792	PRISES DOUBLES			HUB. AMONT		33	.834	1	.790
2	.816	.798						34	.833	2	.818
3	.809	.800	59	.799	.805	1	.805	35	.832	3	.838
4	.802	.804	60	.807	.806	2	.805	36	.826	4	.893
5	.798	.808	61	.812	.815	3	.805	37	.827	5	.947
6	.800	.809				4	.805	38	.830	6	.998
7	.800	.805	PRISES LAT. GAUCHES			5	.803	39	.831	7	.992
8	.805	.803				6	.804	40	.833	8	.817
9	.807	.807	62	.804	.803	7	.805	41	.835	9	.468
10	.809	.800	63	.799	.809	8	.807	42	.832	10	1.362
11	.805	.802	64	.813	.813	9	.805	43	.830	11	1.343
12	.802	.804	65	.819	.818	10	.804	44	.829	12	1.336
13	.804	.804	66	.835	.817	11	.806	45	.827	13	1.026
14	.803	.807	67	.851	.832					14	1.006
15	.804	.809	68	.855	.831	HUB. AVAL		HUB. DROIT		15	1.015
16	.805	.808	69	.859	.832					16	1.022
17	.808	.808	70	.854	.827	1	.817	1	.804	17	1.025
18	.814	.807	71	.832	.821	2	.817	2	.805	18	1.035
19	.815	.808	72	.820	.823	3	.818	3	.805	19	1.044
20	.816	.815	73	.776	.827	4	.823	4	.805	20	1.036
21	.818	.818				5	.820	5	.804	21	1.044
22	.826	.818	PRISES LAT. DROITES			6	.819	6	.804	22	1.007
23	.833	.815				7	.817	7	.804	23	.975
24	.836	.817	74	.806	.805	8	.818	8	.805	24	.764
25	.841	.820	75	.800	.806	9	.821	9	.805	25	.794
26	.844	.821	76	.806	.802	10	.820	10	.805	26	.873
27	.852	.822	77	.804	.803	11	.820	11	.805	27	.933
28	.855	.830	78	.806	.804			12	.805	28	.977
29	.865	.834	79	.812	.801	HUB. GAUCHE		13	.804	29	.996
30	.862	.835	80	.826	.815			14	.804	30	.970
31	.872	.831	81	.840	.816	1	.854	15	.805	31	.966
32	.867	.837	82	.842	.817	2	.852	16	.805	32	.440
33	.872	.837	83	.860	.823	3	.851	17	.805	33	1.533
34	.866	.830	84	.878	.834	4	.829	18	.804	34	1.451
35	.871	.831	85	.883	.839	5	.833	19	.804	35	1.403
36	.869	.830	86	.879	.838	6	.841	20	.804	36	1.326
37	.870	.828	87	.875	.833	7	.849	21	.804	37	1.283
38	.865	.826	88	.872	.828	8	.856	22	.804	38	1.250
39	.866	.825	89	.869	.825	9	.856	23	.804	39	1.122
40	.860	.825	90	.853	.825	10	.847	24	.805	40	1.087
41	.857	.825	91	.841	.823	11	.847	25	.804	41	1.053
42	.857	.825	92	.834	.823	12	.846	26	.805	42	1.010
43	.848	.823	93	.818	.819	13	.843	27	.805	43	1.003
44	.839	.823	94	.819	.818	14	.841	28	.804	44	.986
45	.837	.821	95	.809	.839	15	.825	29	.804	45	.952
46	.834	.822	96	.775	.838	16	.825	30	.804	46	.946
47	.833	.821				17	.826	31	.804	47	.938
48	.830	.823				18	.828	32	.804	48	.953
49	.825	.821				19	.829	33	.804	49	.925
50	.820	.821				20	.831	34	.804	50	.951
51	.819	.820				21	.834	35	.804		
52	.815	.816	PRISES COL			22	.836	36	.804		
53	.814	.819				23	.835	37	.804		
54	.813	.821	.869	1.221		24	.842	38	.804		
55	.810	.822	.868	.978		25	.845	39	.804		
56	.801	.823	.949	.881		26	.848	40	.805		
57	.786	.835	.992	.819		27	.853	41	.804		
58	.761	.852	1.150	.779		28	.854	42	.805		
						29	.846	43	.804		
						30	.836	44	.804		
						31	.831	45	.804		
						32	.836				

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*****************************   FICHIER AD140      N0(IT)=  1
22/ 8/85 11H15 AS07 M=.8 I=0(-30'+ROT.30') R 2-5 ADAPTE 3D 1'ITE. AD140
DE AD9139 1'ITE
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       MACH DE REFERENCE= .8039       UINF=  231.108 M/S
                    TIV=300.8 K        PIV=  1649 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.817	.792	PRISES DOUBLES			HUB. AMONT		33	.809	1	.763
2	.816	.798						34	.809	2	.794
3	.810	.800	59	.801	.805	1	.804	35	.808	3	.870
4	.802	.804	60	.807	.806	2	.802	36	.808	4	.878
5	.799	.807	61	.804	.793	3	.802	37	.807	5	.949
6	.802	.809				4	.804	38	.807	6	.985
7	.801	.805	PRISES LAT. GAUCHES			5	.802	39	.807	7	.811
8	.804	.802				6	.801	40	.810	8	.812
9	.806	.806	62	.805	.802	7	.801	41	.811	9	.421
10	.808	.801	63	.797	.808	8	.800	42	.809	10	1.328
11	.804	.803	64	.809	.808	9	.801	43	.807	11	1.229
12	.800	.804	65	.806	.807	10	.802	44	.806	12	1.065
13	.804	.804	66	.802	.802	11	.803	45	.805	13	1.015
14	.804	.806	67	.814	.807					14	.998
15	.807	.806	68	.810	.809	HUB. AVAL		HUB. DROIT		15	.990
16	.807	.803	69	.813	.812					16	.977
17	.806	.804	70	.819	.806	1	.806	1	.804	17	.975
18	.804	.806	71	.806	.803	2	.805	2	.804	18	.981
19	.802	.805	72	.808	.802	3	.804	3	.804	19	.979
20	.804	.808	73	.797	.805	4	.806	4	.804	20	.980
21	.805	.807				5	.805	5	.804	21	.966
22	.809	.805	PRISES LAT. DROITES			6	.805	6	.804	22	.957
23	.810	.803				7	.804	7	.804	23	.937
24	.808	.803	74	.807	.805	8	.805	8	.804	24	.749
25	.807	.806	75	.801	.805	9	.805	9	.804	25	.730
26	.808	.805	76	.805	.802	10	.802	10	.804	26	.962
27	.814	.804	77	.804	.802	11	.801	11	.804	27	.960
28	.816	.808	78	.802	.800			12	.804	28	.956
29	.822	.810	79	.801	.800	HUB. GAUCHE		13	.804	29	.912
30	.818	.810	80	.813	.805			14	.804	30	.967
31	.824	.807	81	.817	.804	1	.814	15	.804	31	.953
32	.818	.812	82	.809	.804	2	.813	16	.804	32	.409
33	.822	.815	83	.820	.806	3	.813	17	.804	33	1.408
34	.817	.810	84	.833	.811	4	.806	18	.804	34	1.356
35	.819	.812	85	.833	.815	5	.806	19	.804	35	1.116
36	.818	.812	86	.828	.816	6	.809	20	.804	36	1.022
37	.822	.811	87	.824	.814	7	.813	21	.804	37	1.006
38	.821	.810	88	.824	.811	8	.818	22	.804	38	1.004
39	.827	.809	89	.831	.807	9	.820	23	.804	39	1.027
40	.824	.807	90	.821	.805	10	.816	24	.805	40	1.008
41	.823	.806	91	.809	.801	11	.813	25	.804	41	.993
42	.823	.805	92	.809	.804	12	.813	26	.804	42	.984
43	.816	.802	93	.802	.804	13	.812	27	.804	43	.970
44	.808	.801	94	.809	.800	14	.811	28	.804	44	.946
45	.805	.799	95	.803	.815	15	.808	29	.804	45	.917
46	.804	.801	96	.794	.812	16	.807	30	.804	46	.913
47	.808	.802				17	.806	31	.804	47	.905
48	.810	.806				18	.807	32	.804	48	.899
49	.810	.807				19	.807	33	.804	49	.893
50	.808	.805				20	.807	34	.804	50	.927
51	.809	.801				21	.808	35	.804		
52	.807	.794	PRISES COL			22	.810	36	.804		
53	.807	.797				23	.808	37	.804		
54	.807	.800	.853	1.215		24	.814	38	.803		
55	.806	.802	.966	1.166		25	.815	39	.803		
56	.803	.805	.938	.895		26	.818	40	.803		
57	.799	.812	.983	.823		27	.822	41	.804		
58	.796	.824	1.143	.790		28	.824	42	.804		
						29	.818	43	.804		
						30	.811	44	.804		
						31	.808	45	.803		
						32	.810				

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**********************************   FICHIER AD141      N0(IT)=  1
22/ 8/85 11H35 AS07 M=.8 I=0(-30'+ROT.30') R 2-5 ADAPTE 3D 2'ITE. AD141
DE AD9140 1'ITE
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .8043      VINF=  231.108 M/S
                        TIV=299.3 K.     PIV=  1651 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE ASy-	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.816	.792	PRISES DOUBLES			HUB. AMONT		33	.809	1	
2	.816	.798						34	.808	2	
3	.809	.800	59	.803	.805	1	.803	35	.808	3	
4	.801	.803	60	.806	.806	2	.802	36	.809	4	
5	.799	.807	61	.800	.800	3	.801	37	.807	5	
6	.803	.810				4	.802	38	.807	6	
7	.804	.806	PRISES LAT. GAUCHES			5	.800	39	.807	7	
8	.806	.802				6	.801	40	.810	8	
9	.807	.805	62	.804	.801	7	.800	41	.812	9	
10	.807	.801	63	.797	.810	8	.799	42	.810	10	
11	.801	.804	64	.812	.809	9	.800	43	.807	11	
12	.797	.805	65	.804	.804	10	.801	44	.806	12	
13	.799	.805	66	.808	.805	11	.802	45	.804	13	
14	.801	.807	67	.819	.808					14	
15	.804	.807	68	.815	.806	HUB. AVAL		HUB. DROIT		15	
16	.805	.803	69	.817	.810					16	
17	.807	.803	70	.821	.807	1	.805	1	.804	17	
18	.809	.803	71	.809	.802	2	.804	2	.805	18	
19	.807	.802	72	.808	.808	3	.804	3	.805	19	
20	.804	.803	73	.792	.810	4	.807	4	.804	20	
21	.803	.803				5	.805	5	.804	21	
22	.806	.803	FRISES LAT. DROITES			6	.804	6	.805	22	
23	.809	.802				7	.804	7	.805	23	
24	.811	.805	74	.806	.805	8	.805	8	.805	24	
25	.812	.808	75	.804	.805	9	.806	9	.804	25	
26	.814	.808	76	.804	.802	10	.805	10	.804	26	
27	.821	.806	77	.800	.804	11	.805	11	.804	27	
28	.823	.809	78	.804	.800			12	.804	28	
29	.829	.810	79	.805	.796	HUB. GAUCHE		13	.804	29	
30	.825	.809	80	.810	.802			14	.805	30	
31	.831	.806	81	.817	.804	1	.818	15	.805	31	
32	.825	.812	82	.814	.806	2	.817	16	.805	32	
33	.827	.812	83	.827	.807	3	.817	17	.804	33	
34	.821	.807	84	.840	.810	4	.807	18	.804	34	
35	.825	.809	85	.840	.814	5	.808	19	.804	35	
36	.823	.809	86	.834	.813	6	.813	20	.804	36	
37	.825	.807	87	.829	.810	7	.817	21	.805	37	
38	.824	.807	88	.827	.806	8	.821	22	.805	38	
39	.829	.807	89	.832	.804	9	.823	23	.804	39	
40	.826	.807	90	.824	.806	10	.819	24	.804	40	
41	.825	.806	91	.815	.806	11	.816	25	.804	41	
42	.826	.806	92	.811	.805	12	.815	26	.804	42	
43	.821	.805	93	.802	.803	13	.815	27	.804	43	
44	.814	.805	94	.807	.803	14	.814	28	.804	44	
45	.812	.803	95	.800	.817	15	.809	29	.804	45	
46	.810	.804	96	.790	.815	16	.807	30	.804	46	
47	.811	.803				17	.807	31	.804	47	
48	.810	.805				18	.807	32	.804	48	
49	.809	.804				19	.807	33	.804	49	
50	.806	.804				20	.809	34	.804	50	
51	.807	.804				21	.810	35	.804		
52	.803	.801	PRISES COL			22	.811	36	.804		
53	.804	.804				23	.810	37	.804		
54	.804	.805	.858	1.218		24	.815	38	.804		
55	.804	.806	.869	1.165		25	.816	39	.804		
56	.799	.806	.940	.898		26	.819	40	.804		
57	.795	.814	.985	.825		27	.823	41	.805		
58	.787	.825	1.145	.782		28	.825	42	.805		
						29	.820	43	.805		
						30	.813	44	.805		
						31	.809	45	.805		
						32	.811				

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*****************************   FICHIER AD142      NO(IT)=  1
22/ 8/85 14H25  AS07  M=.6  I=-2   R 2-5  NON ADAPTE   AD142
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
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       MACH DE REFERENCE= .5976      UINF=  231.108 M/S
                        TIV=302.5 K      PIV=  1390 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.597	.596	PRISES DOUBLES			HUB. AMONT		33	.605	1	.580
2	.597	.599						34	.605	2	.594
3	.597	.597	59	.597	.597	1	.597	35	.606	3	.642
4	.595	.596	60	.597	.598	2	.597	36	.605	4	.697
5	.595	.597	61	.600	.597	3	.598	37	.605	5	.705
6	.597	.599				4	.598	38	.606	6	.692
7	.597	.597	PRISES LAT. GAUCHES			5	.597	39	.606	7	.669
8	.598	.596				6	.597	40	.607	8	.688
9	.598	.598	62	.597	.598	7	.597	41	.608	9	.317
10	.598	.595	63	.599	.601	8	.597	42	.607	10	.734
11	.596	.597	64	.601	.600	9	.597	43	.606	11	.742
12	.594	.597	65	.602	.601	10	.597	44	.605	12	.725
13	.595	.597	66	.604	.604	11	.598	45	.604	13	.705
14	.596	.599	67	.608	.606					14	.694
15	.597	.599	68	.609	.605	HUB. AVAL		HUB. DROIT		15	.687
16	.598	.598	69	.610	.607					16	.682
17	.599	.598	70	.612	.606	1	.601	1	.597	17	.682
18	.601	.598	71	.603	.602	2	.601	2	.597	18	.685
19	.600	.600	72	.602	.601	3	.602	3	.598	19	.685
20	.602	.602	73	.592	.602	4	.603	4	.599	20	.687
21	.601	.601				5	.602	5	.598	21	.684
22	.604	.599	PRISES LAT. DROITES			6	.601	6	.598	22	.685
23	.605	.599				7	.601	7	.598	23	.680
24	.605	.603	74	.597	.599	8	.601	8	.598	24	.570
25	.606	.607	75	.598	.598	9	.602	9	.598	25	.590
26	.605	.607	76	.597	.596	10	.600	10	.598	26	.640
27	.608	.608	77	.596	.597	11	.599	11	.598	27	.696
28	.609	.608	78	.597	.596			12	.597	28	.704
29	.612	.609	79	.598	.596	HUB. GAUCHE		13	.597	29	.699
30	.611	.608	80	.605	.601			14	.598	30	.668
31	.614	.607	81	.608	.602	1	.609	15	.598	31	.734
32	.611	.608	82	.607	.609	2	.608	16	.598	32	.311
33	.613	.608	83	.610	.610	3	.609	17	.598	33	.733
34	.611	.606	84	.615	.610	4	.604	18	.598	34	.707
35	.613	.607	85	.617	.610	5	.604	19	.598	35	.689
36	.613	.608	86	.615	.610	6	.606	20	.598	36	.688
37	.614	.608	87	.615	.609	7	.607	21	.598	37	.689
38	.614	.607	88	.615	.608	8	.609	22	.598	38	.690
39	.616	.607	89	.620	.607	9	.609	23	.598	39	.691
40	.614	.606	90	.615	.607	10	.608	24	.598	40	.688
41	.613	.606	91	.609	.604	11	.607	25	.598	41	.685
42	.614	.606	92	.605	.602	12	.606	26	.598	42	.684
43	.611	.605	93	.601	.601	13	.606	27	.598	43	.685
44	.608	.604	94	.604	.601	14	.607	28	.597	44	.681
45	.606	.602	95	.598	.591	15	.605	29	.598	45	.674
46	.604	.603	96	.590	.589	16	.604	30	.597	46	.675
47	.605	.602				17	.604	31	.597	47	.663
48	.605	.603				18	.604	32	.597	48	.647
49	.605	.602				19	.604	33	.597	49	.666
50	.604	.602				20	.604	34	.597	50	.638
51	.604	.601				21	.605	35	.598		
52	.601	.598	PRISES COL			22	.606	36	.598		
53	.601	.598				23	.604	37	.598		
54	.599	.598		.658	1.054	24	.607	38	.598		
55	.599	.596		.690	.916	25	.607	39	.598		
56	.595	.594		.795	.798	26	.608	40	.598		
57	.593	.591		.862	.690	27	.610	41	.598		
58	.589	.588		1.019	.629	28	.610	42	.598		
						29	.609	43	.598		
						30	.607	44	.598		
						31	.605	45	.598		
						32	.605				

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*****************************   FICHIER AD143      N0(IT)=  1
22/ 8/85 14H40  AS07  M=.6  I=-2   R 2-5  ADAPTE 3D AD143
DE AD9142 1'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .5982      UINF=  231.108 M/S
                    TIV=301.5 K       PIV=  1391 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.599	.597	PRISES DOUBLES			HUB. AMONT		33	.601	1	.575
2	.599	.600						34	.601	2	.592
3	.598	.598	59	.598	.599	1	.597	35	.601	3	.636
4	.596	.598	60	.599	.599	2	.596	36	.601	4	.659
5	.595	.598	61	.602	.600	3	.596	37	.601	5	.673
6	.598	.600				4	.596	38	.601	6	.683
7	.598	.599	PRISES LAT. GAUCHES			5	.596	39	.601	7	.691
8	.599	.598				6	.596	40	.602	8	.696
9	.599	.599	62	.596	.598	7	.595	41	.603	9	.713
10	.599	.596	63	.600	.601	8	.595	42	.602	10	.724
11	.597	.596	64	.601	.601	9	.596	43	.601	11	.732
12	.595	.597	65	.598	.600	10	.595	44	.600	12	.738
13	.596	.597	66	.599	.598	11	.596	45	.600	13	.697
14	.597	.599	67	.605	.602					14	.636
15	.597	.599	68	.602	.601	HUB. AVAL		HUB. DROIT		15	.681
16	.598	.598	69	.602	.603					16	.675
17	.599	.599	70	.605	.601	1	.603	1	.599	17	.675
18	.601	.599	71	.602	.599	2	.602	2	.598	18	.673
19	.599	.600	72	.602	.602	3	.601	3	.598	19	.675
20	.599	.601	73	.600	.605	4	.601	4	.598	20	.679
21	.598	.601				5	.600	5	.599	21	.674
22	.601	.599	PRISES LAT. DROITES			6	.601	6	.599	22	.675
23	.600	.597				7	.601	7	.599	23	.670
24	.599	.598	74	.597	.600	8	.603	8	.599	24	.563
25	.600	.601	75	.597	.599	9	.601	9	.598	25	.582
26	.600	.600	76	.598	.596	10	.600	10	.598	26	.624
27	.603	.601	77	.597	.597	11	.599	11	.598	27	.692
28	.605	.603	78	.597	.596			12	.599	28	.700
29	.607	.604	79	.598	.597	HUB. GAUCHE		13	.599	29	.696
30	.606	.603	80	.601	.600			14	.599	30	.695
31	.607	.601	81	.603	.600	1	.604	15	.598	31	.734
32	.606	.604	82	.600	.602	2	.602	16	.598	32	.311
33	.606	.605	83	.605	.605	3	.602	17	.598	33	.736
34	.604	.603	84	.612	.606	4	.599	18	.598	34	.699
35	.604	.603	85	.612	.606	5	.599	19	.598	35	.673
36	.603	.603	86	.608	.606	6	.601	20	.598	36	.673
37	.605	.602	87	.606	.605	7	.603	21	.598	37	.680
38	.606	.602	88	.607	.603	8	.603	22	.598	38	.683
39	.609	.602	89	.613	.602	9	.604	23	.598	39	.682
40	.607	.602	90	.608	.601	10	.603	24	.598	40	.679
41	.607	.602	91	.601	.600	11	.602	25	.599	41	.675
42	.608	.601	92	.604	.599	12	.603	26	.598	42	.675
43	.604	.599	93	.599	.599	13	.602	27	.599	43	.677
44	.600	.599	94	.602	.601	14	.602	28	.599	44	.673
45	.601	.599	95	.602	.593	15	.601	29	.599	45	.666
46	.601	.600	96	.598	.591	16	.600	30	.599	46	.668
47	.604	.599				17	.600	31	.598	47	.656
48	.603	.601				18	.600	32	.598	48	.642
49	.602	.600				19	.600	33	.598	49	.660
50	.600	.601				20	.600	34	.598	50	.634
51	.602	.601				21	.600	35	.598		
52	.603	.600	PRISES COL			22	.600	36	.598		
53	.603	.601				23	.598	37	.598		
54	.603	.601	.663	1.059		24	.602	38	.598		
55	.603	.599	.891	.917		25	.603	39	.598		
56	.602	.597	.798	.796		26	.604	40	.598		
57	.601	.595	.865	.692		27	.606	41	.598		
58	.599	.590	1.023	.631		28	.607	42	.598		
						29	.606	43	.598		
						30	.604	44	.598		
						31	.602	45	.598		
						32	.601				

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**************************   FICHIER AD144      N0(IT)=  4
22/ 3/85 15H10  AS07  M=.6  I=-2   R 2-5  ADAPTE 2D    AD144
DE AD136 1'ITE.
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .5964      UINF=  231.108 M/S
                  TIV=296.8 K       PIV=  1392 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.598	.595	PRISES DOUBLES			HUB. AMONT		33	.599	1	.575
2	.598	.599						34	.599	2	.591
3	.597	.598	59	.596	.597	1	.596	35	.599	3	.639
4	.596	.598	60	.597	.597	2	.596	36	.599	4	.690
5	.596	.599	61	.596	.595	3	.596	37	.599	5	.697
6	.598	.600				4	.597	38	.599	6	.686
7	.596	.597	PRISES LAT. GAUCHES			5	.596	39	.599	7	.667
8	.597	.596				6	.595	40	.600	8	.681
9	.597	.597	62	.597	.598	7	.595	41	.600	9	.317
10	.598	.594	63	.599	.599	8	.594	42	.600	10	.737
11	.597	.595	64	.599	.600	9	.595	43	.598	11	.736
12	.595	.596	65	.596	.595	10	.596	44	.598	12	.718
13	.596	.595	66	.599	.597	11	.596	45	.597	13	.699
14	.596	.597	67	.600	.599					14	.687
15	.595	.597	68	.599	.598	HUB. AVAL		HUB. DROIT		15	.682
16	.595	.596	69	.601	.599					16	.676
17	.596	.597	70	.602	.598	1	.598	1	.597	17	.675
18	.599	.596	71	.599	.596	2	.598	2	.597	18	.673
19	.597	.595	72	.597	.597	3	.598	3	.597	19	.677
20	.597	.596	73	.589	.598	4	.598	4	.597	20	.679
21	.595	.596				5	.597	5	.597	21	.675
22	.599	.595	PRISES LAT. DROITES			6	.598	6	.597	22	.675
23	.600	.596				7	.598	7	.597	23	.670
24	.600	.597	74	.597	.599	8	.599	8	.597	24	.567
25	.601	.600	75	.597	.597	9	.598	9	.597	25	.573
26	.600	.599	76	.597	.594	10	.598	10	.597	26	.634
27	.601	.600	77	.595	.595	11	.597	11	.597	27	.686
28	.602	.601	78	.595	.595			12	.597	28	.695
29	.603	.602	79	.596	.593	HUB. GAUCHE		13	.597	29	.689
30	.601	.601	80	.600	.596			14	.597	30	.688
31	.604	.599	81	.603	.598	1	.600	15	.597	31	.723
32	.602	.601	82	.602	.601	2	.600	16	.597	32	.312
33	.603	.602	83	.604	.601	3	.600	17	.597	33	.702
34	.601	.600	84	.606	.602	4	.598	18	.597	34	.695
35	.603	.600	85	.607	.604	5	.597	19	.597	35	.679
36	.601	.600	86	.606	.603	6	.599	20	.597	36	.675
37	.603	.600	87	.605	.602	7	.600	21	.597	37	.675
38	.602	.599	88	.605	.600	8	.600	22	.597	38	.677
39	.605	.599	89	.609	.599	9	.601	23	.597	39	.678
40	.603	.599	90	.604	.600	10	.600	24	.597	40	.675
41	.602	.599	91	.600	.598	11	.599	25	.597	41	.671
42	.604	.598	92	.600	.596	12	.600	26	.597	42	.671
43	.601	.598	93	.596	.595	13	.599	27	.597	43	.672
44	.600	.597	94	.599	.596	14	.599	28	.597	44	.668
45	.598	.596	95	.594	.590	15	.599	29	.597	45	.662
46	.598	.597	96	.587	.588	16	.598	30	.597	46	.663
47	.600	.595				17	.597	31	.597	47	.655
48	.600	.596				18	.597	32	.597	48	.642
49	.599	.596				19	.597	33	.597	49	.656
50	.596	.596				20	.598	34	.597	50	.629
51	.598	.596				21	.598	35	.597		
52	.597	.595	PRISES COL			22	.599	36	.597		
53	.597	.596				23	.597	37	.597		
54	.596	.596		.658	1.053	24	.599	38	.597		
55	.596	.594		.695	.925	25	.600	39	.597		
56	.593	.592		.794	.801	26	.601	40	.597		
57	.590	.590		.861	.693	27	.602	41	.597		
58	.587	.588		1.019	.632	28	.603	42	.597		
						29	.602	43	.597		
						30	.600	44	.597		
						31	.599	45	.597		
						32	.599				

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*****************************   FICHIER AD145      N0(IT)=  4
22/ 8/85 17H15  AS07  M=.6  I=+2   R 2-5  ADAPTE 2D    AD145
DE AD131 4'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .5959      UINF=  231.108 M/S
                         TIV=297.1 K      PIV=  1391 MB
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        MACH PAROIS HAUTE ET BASSE          *   MACH PAROIS LATER.      *  AILE AS07
                                            *                           *
  I    HAUT     BAS       I    HAUT     BAS  *   I    MACH     I    MACH  *   I    MACH
                                            *                           *
  1    .598    .593  * PRISES DOUBLES        *  HUB. AMONT    33    .597  *   1    .562
  2    .599    .597  *                       *                34    .596  *   2    .577
  3    .598    .596  *  59    .596    .596   *   1    .596     35    .595  *   3    .617
  4    .596    .596  *  60    .598    .596   *   2    .595     36    .596  *   4    .656
  5    .595    .597  *  61    .597    .595   *   3    .595     37    .596  *   5    .648
  6    .598    .598  *                       *   4    .595     38    .595  *   6    .597
  7    .597    .596  * PRISES LAT. GAUCHES   *   5    .595     39    .594  *   7    .544
  8    .597    .595  *                       *   6    .595     40    .594  *   8    .493
  9    .597    .596  *  62    .596    .596   *   7    .595     41    .594  *   9    .384
 10    .598    .593  *  63    .599    .598   *   8    .594     42    .594  *  10   1.093
 11    .596    .594  *  64    .600    .597   *   9    .594     43    .594  *  11    .896
 12    .594    .594  *  65    .599    .594   *  10    .594     44    .592  *  12    .839
 13    .596    .593  *  66    .602    .593   *  11    .594     45    .593  *  13    .798
 14    .596    .594  *  67    .603    .595   *                             *  14    .763
 15    .596    .595  *  68    .603    .594   *  HUB. AVAL     HUB. DROIT  *  15    .752
 16    .597    .594  *  69.   .605    .595   *                             *  16    .736
 17    .598    .594  *  70    .606    .593   *   1    .598     1    .597  *  17    .720
 18    .600    .593  *  71    .600    .592   *   2    .597     2    .596  *  18    .724
 19    .599    .592  *  72    .598    .596   *   3    .598     3    .597  *  19    .718
 20    .600    .594  *  73    .589    .598   *   4    .598     4    .597  *  20    .709
 21    .599    .593  *                       *   5    .597     5    .597  *  21    .695
 22    .601    .591  * PRISES LAT. DROITES   *   6    .598     6    .597  *  22    .686
 23    .603    .589  *                       *   7    .598     7    .597  *  23    .675
 24    .604    .591  *  74    .597    .598   *   8    .599     8    .597  *  24    .652
 25    .608    .592  *  75    .597    .596   *   9    .598     9    .597  *  25    .567
 26    .606    .592  *  76    .597    .593   *  10    .597    10    .597  *  26    .615
 27    .609    .591  *  77    .595    .592   *  11    .597    11    .596  *  27    .645
 28    .608    .593  *  78    .595    .591   *                 12    .597  *  28    .628
 29    .611    .592  *  79    .598    .588   * HUB. GAUCHE     13    .596  *  29    .580
 30    .608    .593  *  80    .606    .590   *                 14    .596  *  30    .519
 31    .612    .589  *  81    .609    .588   *   1    .605     15    .596  *  31    .489
 32    .608    .592  *  82    .612    .589   *   2    .604     16    .596  *  32    .349
 33    .611    .592  *  83    .614    .590   *   3    .605     17    .596  *  33   1.079
 34    .608    .591  *  84    .618    .590   *   4    .600     18    .596  *  34   1.012
 35    .610    .590  *  85    .618    .592   *   5    .600     19    .596  *  35    .934
 36    .609    .592  *  86    .616    .591   *   6    .602     20    .596  *  36    .839
 37    .611    .590  *  87    .614    .591   *   7    .604     21    .596  *  37    .801
 38    .610    .591  *  88    .613    .590   *   8    .606     22    .597  *  38    .792
 39    .613    .591  *  89    .617    .591   *   9    .607     23    .597  *  39    .755
 40    .610    .591  *  90    .610    .592   *  10    .606     24    .596  *  40    .749
 41    .610    .591  *  91    .604    .593   *  11    .604     25    .597  *  41    .735
 42    .610    .591  *  92    .602    .593   *  12    .603     26    .596  *  42    .725
 43    .607    .592  *  93    .597    .593   *  13    .602     27    .596  *  43    .711
 44    .604    .593  *  94    .598    .594   *  14    .601     28    .597  *  44    .693
 45    .603    .592  *  95    .596    .589   *  15    .598     29    .597  *  45    .671
 46    .601    .592  *  96    .587    .588   *  16    .597     30    .597  *  46    .667
 47    .603    .592  *                       *  17    .597     31    .597  *  47    .660
 48    .602    .592  *                       *  18    .597     32    .597  *  48    .633
 49    .601    .593  *                       *  19    .598     33    .597  *  49    .657
 50    .599    .595  *                       *  20    .598     34    .597  *  50    .631
 51    .599    .595  *                       *  21    .599     35    .597  *
 52    .599    .594  *       PRISES COL      *  22    .600     36    .596  *
 53    .599    .595  *                       *  23    .598     37    .596  *
 54    .599    .595  *        .659   1.057   *  24    .601     38    .596  *
 55    .598    .593  *        .695    .908   *  25    .602     39    .596  *
 56    .594    .592  *        .796    .793   *  26    .603     40    .596  *
 57    .591    .591  *        .863    .691   *  27    .605     41    .596  *
 58    .586    .588  *       1.021    .631   *  28    .606     42    .596  *
                                             *  29    .605     43    .596  *
                                             *  30    .603     44    .596  *
                                             *  31    .601     45    .596  *
                                             *  32    .598
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**************************   FICHIER AD146      NO(IT)=  4
23/ 8/85  9H50  AS07  M=.6  I=+2   R 1-4  ADAPTE 2D     AD146
DE AD145 4'ITE.
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .5936      UINF=  231.108 M/S
                  TIV=297.0 K       PIV=  1393 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.595	.591	PRISES DOUBLES				HUB. AMONT		33	.594		1	.573
2	.596	.595							34	.593		2	.579
3	.595	.593		59	.593	.593	1	.594	35	.592		3	.606
4	.593	.592		60	.596	.594	2	.594	36	.593		4	.637
5	.592	.593		61	.595	.590	3	.593	37	.593		5	.619
6	.594	.594					4	.593	38	.592		6	.571
7	.594	.593	PRISES LAT. GAUCHES				5	.592	39	.592		7	.516
8	.594	.593					6	.592	40	.591		8	.486
9	.594	.594		62	.594	.592	7	.592	41	.592		9	.328
10	.596	.591		63	.597	.596	8	.591	42	.593		10	1.010
11	.595	.591		64	.597	.593	9	.592	43	.591		11	.898
12	.593	.591		65	.596	.593	10	.592	44	.590		12	.789
13	.595	.591		66	.598	.589	11	.592	45	.590		13	.762
14	.594	.592		67	.603	.592						14	.735
15	.594	.592		68	.601	.591	HUB. AVAL		HUB. DROIT			15	.723
16	.594	.591		69	.601	.591						16	.709
17	.595	.591		70	.604	.590	1	.596	1	.594		17	.700
18	.597	.591		71	.600	.592	2	.596	2	.594		18	.697
19	.597	.591		72	.595	.593	3	.596	3	.594		19	.692
20	.598	.593		73	.587	.595	4	.596	4	.594		20	.689
21	.597	.592					5	.595	5	.594		21	.678
22	.599	.591	PRISES LAT. DROITES				6	.595	6	.594		22	.671
23	.601	.589					7	.595	7	.594		23	.659
24	.601	.589		74	.595	.595	8	.597	8	.594		24	.652
25	.604	.588		75	.594	.593	9	.596	9	.594		25	.647
26	.603	.588		76	.595	.591	10	.594	10	.594		26	.601
27	.607	.587		77	.594	.590	11	.593	11	.594		27	.636
28	.608	.590		78	.593	.589			12	.594		28	.657
29	.611	.589		79	.597	.588	HUB. GAUCHE		13	.594		29	.674
30	.608	.590		80	.603	.589			14	.594		30	.630
31	.611	.586		81	.606	.587	1	.603	15	.594		31	.483
32	.608	.590		82	.608	.585	2	.602	16	.594		32	.374
33	.609	.589		83	.612	.586	3	.602	17	.594		33	1.213
34	.605	.588		84	.617	.587	4	.598	18	.594		34	.983
35	.607	.588		85	.617	.588	5	.598	19	.594		35	.950
36	.605	.588		86	.613	.588	6	.600	20	.594		36	.908
37	.607	.587		87	.610	.589	7	.602	21	.594		37	.789
38	.606	.587		88	.609	.586	8	.604	22	.594		38	.775
39	.609	.587		89	.613	.587	9	.604	23	.594		39	.757
40	.607	.587		90	.608	.589	10	.603	24	.594		40	.744
41	.607	.588		91	.601	.592	11	.602	25	.594		41	.734
42	.607	.588		92	.602	.592	12	.601	26	.594		42	.727
43	.604	.590		93	.595	.591	13	.600	27	.594		43	.712
44	.600	.591		94	.596	.591	14	.599	28	.594		44	.698
45	.600	.591		95	.594	.585	15	.596	29	.594		45	.682
46	.599	.593		96	.585	.583	16	.595	30	.593		46	.670
47	.602	.592					17	.595	31	.594		47	.654
48	.602	.593					18	.595	32	.594		48	.636
49	.599	.592					19	.595	33	.594		49	.661
50	.595	.592					20	.596	34	.594		50	.625
51	.595	.592					21	.596	35	.593			
52	.596	.591	PRISES COL				22	.597	36	.594			
53	.596	.593					23	.596	37	.594			
54	.596	.593			.853	1.048	24	.598	38	.594			
55	.595	.591			.893	.911	25	.599	39	.594			
56	.592	.589			.792	.793	26	.601	40	.594			
57	.589	.586			.859	.689	27	.602	41	.594			
58	.584	.582			1.015	.528	28	.604	42	.594			
							29	.602	43	.594			
							30	.600	44	.594			
							31	.599	45	.594			
							32	.595					

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**************************   FICHIER AD147      N0(IT)=  1
23/ 8/85 10H25  AS07  M=.6  I=+2(+1.5+ROT.30') R 1-4 NON ADAPTE AD147
DE AD445 1'ITE PAROIS RECTILIGNES + 30'
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .5931      UINF=  231.108 M/S
                  TIV=301.2 K       PIV=  1393 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.601	.587	PRISES DOUBLES			HUB. AMONT		33	.600	1	.588
2	.600	.590						34	.598	2	.588
3	.596	.591	59	.593	.593	1	.595	35	.597	3	.611
4	.593	.593	60	.594	.593	2	.594	36	.598	4	.642
5	.591	.594	61	.592	.597	3	.595	37	.597	5	.655
6	.593	.595				4	.594	38	.596	6	.579
7	.593	.593	PRISES LAT. GAUCHES			5	.593	39	.595	7	.533
8	.594	.592				6	.593	40	.595	8	.493
9	.594	.594	62	.594	.592	7	.594	41	.596	9	.333
10	.594	.590	63	.595	.595	8	.594	42	.597	10	1.017
11	.591	.591	64	.598	.596	9	.593	43	.594	11	.911
12	.590	.591	65	.599	.593	10	.593	44	.593	12	.803
13	.591	.591	66	.608	.596	11	.593	45	.592	13	.716
14	.592	.592	67	.612	.594					14	.751
15	.593	.593	68	.614	.594	HUB. AVAL		HUB. DROIT		15	.773
16	.594	.592	69	.614	.595					16	.772
17	.596	.593	70	.613	.594	1	.597	1	.593	17	.771
18	.599	.594	71	.604	.595	2	.597	2	.594	18	.771
19	.599	.594	72	.598	.598	3	.598	3	.594	19	.770
20	.600	.594	73	.574	.600	4	.600	4	.594	20	.770
21	.601	.593				5	.600	5	.594	21	.769
22	.605	.592	PRISES LAT. DROITES			6	.599	6	.593	22	.768
23	.608	.590				7	.598	7	.593	23	.767
24	.609	.593	74	.595	.594	8	.599	8	.593	24	.766
25	.613	.593	75	.592	.592	9	.600	9	.593	25	.765
26	.612	.593	76	.593	.591	10	.599	10	.593	26	.764
27	.616	.591	77	.591	.590	11	.599	11	.593	27	.763
28	.617	.592	78	.595	.590			12	.594	28	.762
29	.620	.590	79	.598	.589	HUB. GAUCHE		13	.594	29	.760
30	.619	.591	80	.606	.589			14	.594	30	.759
31	.623	.588	81	.613	.588	1	.613	15	.594	31	.758
32	.619	.591	82	.616	.590	2	.611	16	.594	32	.757
33	.621	.590	83	.622	.590	3	.611	17	.593	33	1.122
34	.618	.590	84	.626	.588	4	.604	18	.593	34	1.000
35	.620	.590	85	.628	.589	5	.605	19	.593	35	.883
36	.619	.592	86	.625	.590	6	.608	20	.593	36	.820
37	.621	.591	87	.624	.592	7	.610	21	.593	37	.801
38	.618	.591	88	.623	.590	8	.612	22	.593	38	.783
39	.620	.591	89	.624	.590	9	.613	23	.593	39	.771
40	.617	.590	90	.617	.593	10	.610	24	.593	40	.761
41	.617	.591	91	.610	.596	11	.610	25	.593	41	.747
42	.616	.592	92	.605	.595	12	.609	26	.593	42	.733
43	.613	.593	93	.598	.595	13	.608	27	.593	43	.724
44	.610	.595	94	.597	.596	14	.606	28	.593	44	.709
45	.609	.596	95	.589	.601	15	.601	29	.594	45	.692
46	.607	.596	96	.573	.599	16	.600	30	.594	46	.680
47	.607	.595				17	.599	31	.594	47	.662
48	.605	.596				18	.600	32	.594	48	.644
49	.602	.596				19	.600	33	.593	49	.629
50	.598	.597				20	.601	34	.594	50	.611
51	.597	.597				21	.602	35	.594		
52	.593	.597	PRISES COL			22	.603	36	.593		
53	.592	.598				23	.601	37	.593		
54	.590	.598	.661	1.060		24	.604	38	.593		
55	.587	.598	.692	.900		25	.606	39	.593		
56	.584	.598	.797	.791		26	.607	40	.593		
57	.579	.601	.865	.689		27	.609	41	.593		
58	.570	.605	1.022	.629		28	.610	42	.593		
						29	.608	43	.593		
						30	.606	44	.593		
						31	.604	45	.593		
						32	.602				

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*****************************   FICHIER AD148      M0(IT)=  1
23/ 8/85 10H40  AS07  M=.6  I=+2(1.5+ROT.30°) R 1-4 ADAPTE 3D AD148
DE AD9122 1'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .5936      UINF=  231.108 M/S
                  TIV=300.6 K         PIV=  1392 MB
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        MACH PAROIS HAUTE ET BASSE        *    MACH PAROIS LATER.     *  AILE AS07
                                          *                           *
  I    HAUT     BAS       I    HAUT     BAS  *   I   MACH     I   MACH  *   I   MACH
                                          *                           *
  1    .600    .586  * PRISES DOUBLES      *  HUB. AMONT   33   .596  *   1   .582
  2    .599    .589  *                     *                34   .595  *   2   .590
  3    .595    .590  *  59    .592    .592  *   1   .594     35   .594  *   3   .619
  4    .592    .593  *  60    .595    .594  *   2   .593     36   .596  *   4   .651
  5    .591    .594  *  61    .600    .592  *   3   .594     37   .595  *   5   .638
  6    .593    .595  *                     *   4   .594     38   .595  *   6   .589
  7    .593    .592  * PRISES LAT. GAUCHES *   5   .593     39   .594  *   7   .535
  8    .595    .592  *                     *   6   .593     40   .594  *   8   .508
  9    .596    .594  *  62    .593    .592  *   7   .593     41   .595  *   9   .385
 10    .596    .591  *  63    .595    .595  *   8   .593     42   .595  *  10   .906
 11    .594    .594  *  64    .597    .597  *   9   .593     43   .594  *  11   .886
 12    .592    .595  *  65    .595    .594  *  10   .593     44   .594  *  12   .791
 13    .593    .594  *  66    .595    .596  *  11   .594     45   .593  *  13   .762
 14    .593    .595  *  67    .602    .593  *                           *  14   .738
 15    .593    .594  *  68    .600    .595  *  HUB. AVAL    HUB. DROIT  *  15   .724
 16    .594    .593  *  69    .601    .598  *                           *  16   .711
 17    .595    .594  *  70    .605    .592  *   1   .599     1   .594  *  17   .703
 18    .597    .595  *  71    .599    .595  *   2   .599     2   .594  *  18   .701
 19    .596    .594  *  72    .600    .595  *   3   .598     3   .595  *  19   .696
 20    .596    .594  *  73    .593    .597  *   4   .598     4   .595  *  20   .694
 21    .596    .593  *                     *   5   .598     5   .594  *  21   .686
 22    .599    .592  * PRISES LAT. DROITES *   6   .598     6   .594  *  22   .681
 23    .600    .592  *                     *   7   .599     7   .594  *  23   .670
 24    .599    .595  *  74    .594    .593  *   8   .600     8   .594  *  24   .664
 25    .600    .595  *  75    .592    .592  *   9   .599     9   .594  *  25   .577
 26    .599    .594  *  76    .594    .591  *  10   .597    10   .594  *  26   .614
 27    .603    .591  *  77    .592    .592  *  11   .596    11   .594  *  27   .652
 28    .604    .592  *  78    .594    .592  *                12   .593  *  28   .590
 29    .608    .591  *  79    .596    .590  * HUB. GAUCHE    13   .593  *  29   .598
 30    .607    .592  *  80    .601    .590  *                14   .593  *  30   .589
 31    .610    .589  *  81    .605    .591  *   1   .602     15   .593  *  31   .513
 32    .607    .593  *  82    .602    .592  *   2   .602     16   .593  *  32   .361
 33    .608    .593  *  83    .608    .591  *   3   .602     17   .593  *  33  1.134
 34    .604    .594  *  84    .615    .590  *   4   .598     18   .594  *  34   .900
 35    .606    .594  *  85    .615    .591  *   5   .597     19   .593  *  35   .830
 36    .605    .596  *  86    .611    .592  *   6   .599     20   .594  *  36   .795
 37    .607    .595  *  87    .609    .595  *   7   .602     21   .594  *  37   .779
 38    .607    .594  *  88    .609    .594  *   8   .604     22   .594  *  38   .768
 39    .610    .593  *  89    .614    .592  *   9   .605     23   .594  *  39   .758
 40    .608    .592  *  90    .608    .592  *  10   .604     24   .594  *  40   .741
 41    .609    .592  *  91    .601    .591  *  11   .602     25   .594  *  41   .732
 42    .609    .592  *  92    .600    .594  *  12   .601     26   .594  *  42   .726
 43    .605    .591  *  93    .596    .595  *  13   .601     27   .594  *  43   .719
 44    .601    .592  *  94    .600    .593  *  14   .600     28   .594  *  44   .709
 45    .599    .591  *  95    .598    .596  *  15   .597     29   .594  *  45   .685
 46    .598    .593  *  96    .591    .595  *  16   .596     30   .594  *  46   .674
 47    .600    .594  *                     *  17   .596     31   .593  *  47   .655
 48    .600    .596  *                     *  18   .596     32   .593  *  48   .631
 49    .600    .596  *                     *  19   .596     33   .593  *  49   .603
 50    .599    .596  *                     *  20   .597     34   .593  *  50   .648
 51    .600    .594  *                     *  21   .598     35   .593  *
 52    .600    .592  *       PRISES COL    *  22   .599     36   .593  *
 53    .601    .594  *                     *  23   .597     37   .593  *
 54    .600    .596  *       .659  1.059   *  24   .601     38   .593  *
 55    .600    .596  *       .691   .907   *  25   .601     39   .593  *
 56    .598    .596  *       .797   .795   *  26   .603     40   .593  *
 57    .595    .597  *       .864   .691   *  27   .604     41   .593  *
 58    .592    .599  *      1.021   .630   *  28   .605     42   .593  *
                                          *  29   .604     43   .593  *
                                          *  30   .602     44   .593  *
                                          *  31   .600     45   .593  *
                                          *  32   .597
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*****************************   FICHIER AD149      N0(IT)=  4
23/ 8/85 11H10  AS07  M=.6  I=0  R 1-4   ADAPTE  2D    AD149
DE AD136 4'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .5936      UINF=  231.108 M/S
                  TIV=295.8 K        PIV=  1394 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.595	.592		PRISES DOUBLES			HUB. AMONT		33	.595		1	.583
2	.595	.595							34	.594		2	.591
3	.594	.594		59	.594	.593	1	.594	35	.594		3	.626
4	.592	.593		60	.594	.593	2	.593	36	.594		4	.661
5	.592	.594		61	.594	.592	3	.592	37	.594		5	.652
6	.594	.596					4	.593	38	.594		6	.615
7	.594	.593		PRISES LAT. GAUCHES			5	.592	39	.594		7	.568
8	.595	.592					6	.592	40	.594		8	.555
9	.595	.593		62	.593	.594	7	.592	41	.594		9	.397
10	.595	.590		63	.596	.595	8	.591	42	.594		10	.367
11	.592	.592		64	.596	.595	9	.592	43	.594		11	.814
12	.590	.592		65	.594	.592	10	.592	44	.594		12	.735
13	.592	.591		66	.597	.591	11	.592	45	.593		13	.721
14	.592	.593		67	.599	.595						14	.703
15	.594	.593		68	.599	.594	HUB. AVAL		HUB. DROIT			15	.695
16	.595	.592		69	.599	.595						16	.685
17	.594	.593		70	.600	.592	1	.595	1	.594		17	.679
18	.594	.591		71	.596	.592	2	.595	2	.594		18	.677
19	.594	.590		72	.595	.593	3	.595	3	.594		19	.674
20	.595	.592		73	.587	.594	4	.595	4	.593		20	.675
21	.595	.592					5	.595	5	.594		21	.663
22	.597	.591		PRISES LAT. DROITES			6	.595	6	.594		22	.667
23	.598	.590					7	.595	7	.594		23	.658
24	.599	.591		74	.594	.595	8	.596	8	.594		24	.660
25	.601	.592		75	.594	.594	9	.595	9	.594		25	.579
26	.600	.592		76	.594	.591	10	.594	10	.594		26	.630
27	.602	.592		77	.592	.590	11	.594	11	.594		27	.565
28	.602	.594		78	.593	.591			12	.594		28	.617
29	.604	.595		79	.593	.588	HUB. GAUCHE		13	.594		29	.629
30	.602	.594		80	.600	.590			14	.594		30	.597
31	.606	.592		81	.602	.591	1	.600	15	.594		31	.587
32	.603	.595		82	.603	.591	2	.599	16	.594		32	.922
33	.605	.595		83	.606	.592	3	.599	17	.594		33	.915
34	.602	.593		84	.610	.594	4	.596	18	.594		34	.810
35	.604	.594		85	.610	.595	5	.596	19	.594		35	.763
36	.603	.593		86	.608	.595	6	.598	20	.594		36	.741
37	.604	.592		87	.607	.595	7	.599	21	.594		37	.735
38	.603	.592		88	.606	.593	8	.601	22	.594		38	.730
39	.605	.592		89	.609	.591	9	.601	23	.594		39	.720
40	.603	.591		90	.604	.592	10	.600	24	.594		40	.713
41	.603	.591		91	.601	.593	11	.599	25	.594		41	.707
42	.603	.591		92	.598	.593	12	.598	26	.594		42	.703
43	.602	.592		93	.593	.591	13	.598	27	.594		43	.695
44	.599	.592		94	.595	.592	14	.598	28	.594		44	.687
45	.599	.592		95	.592	.589	15	.596	29	.594		45	.677
46	.597	.593		96	.585	.586	16	.595	30	.594		46	.668
47	.598	.592					17	.595	31	.594		47	.651
48	.598	.593					18	.595	32	.594		48	.636
49	.597	.591					19	.595	33	.594		49	.660
50	.595	.592					20	.595	34	.594		50	.630
51	.596	.593					21	.596	35	.594			
52	.595	.592		PRISES COL			22	.596	36	.594			
53	.595	.591					23	.595	37	.594			
54	.593	.591		.653	1.046		24	.598	38	.594			
55	.593	.590		.695	.927		25	.598	39	.594			
56	.590	.589		.791	.802		26	.599	40	.594			
57	.588	.588		.858	.694		27	.601	41	.594			
58	.585	.588		1.013	.630		28	.602	42	.594			
							29	.600	43	.594			
							30	.598	44	.594			
							31	.597	45	.594			
							32	.595					

```
**************************   FICHIER AD150      N0(IT)=  1
23/ 8/85 11H35  AS07  M=.6  I=0  R 1-4  NON ADAPTE      AD150
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
--------------------------------------------------------------------------------
       MACH DE REFERENCE= .5947      UINF=  231.108 M/S
                        TIV=300.1 K      PIV=  1391 MB
********************************************************************************

      MACH PAROIS HAUTE ET BASSE       *   MACH PAROIS LATER.      *  AILE AS07
                                       *                           *
 I    HAUT     BAS      I   HAUT   BAS  *   I   MACH    I   MACH   *   I   MACH
                                       *                           *
 1   .595    .594   * PRISES DOUBLES    *  HUB. AMONT  33  .602    *   1   .587
 2   .595    .597   *                   *              34  .601    *   2   .597
 3   .595    .596   *  59   .595  .595  *   1   .594   35  .600    *   3   .631
 4   .593    .595   *  60   .594  .595  *   2   .595   36  .599    *   4   .670
 5   .593    .596   *  61   .597  .595  *   3   .595   37  .600    *   5   .657
 6   .595    .597   *                   *   4   .595   38  .599    *   6   .619
 7   .595    .596   * PRISES LAT. GAUCHES*   5   .594   39  .599    *   7   .575
 8   .595    .594   *                   *   6   .594   40  .600    *   8   .564
 9   .595    .595   *  62   .594  .595  *   7   .594   41  .600    *   9   .585
10   .595    .592   *  63   .596  .598  *   8   .593   42  .600    *  10   .674
11   .593    .593   *  64   .597  .597  *   9   .593   43  .599    *  11   .819
12   .591    .593   *  65   .600  .596  *  10   .593   44  .598    *  12   .744
13   .593    .594   *  66   .602  .597  *  11   .595   45  .598    *  13   .729
14   .593    .596   *  67   .612  .598  *                           *  14   .710
15   .594    .596   *  68   .612  .600  *  HUB. AVAL   HUB. DROIT  *  15   .703
16   .595    .594   *  69   .610  .602  *                           *  16   .693
17   .595    .594   *  70   .612  .598  *   1   .598   1   .594    *  17   .687
18   .598    .594   *  71   .602  .596  *   2   .598   2   .596    *  18   .686
19   .597    .594   *  72   .599  .597  *   3   .598   3   .596    *  19   .683
20   .599    .595   *  73   .584  .600  *   4   .599   4   .595    *  20   .684
21   .600    .596   *                   *   5   .599   5   .595    *  21   .679
22   .603    .596   * PRISES LAT. DROITES*   6   .599   6   .595    *  22   .677
23   .605    .596   *                   *   7   .598   7   .595    *  23   .668
24   .603    .597   *  74   .594  .597  *   8   .599   8   .594    *  24   .667
25   .605    .598   *  75   .595  .596  *   9   .599   9   .594    *  25   .664
26   .605    .597   *  76   .594  .593  *  10   .597  10   .595    *  26   .662
27   .610    .597   *  77   .593  .593  *  11   .597  11   .595    *  27   .672
28   .613    .598   *  78   .594  .592  *              12   .595    *  28   .684
29   .617    .598   *  79   .596  .591  *  HUB. GAUCHE  13   .595    *  29   .699
30   .616    .598   *  80   .605  .584  *              14   .595    *  30   .707
31   .620    .596   *  81   .608  .596  *   1   .610   15   .595    *  31   .697
32   .617    .600   *  82   .608  .597  *   2   .609   16   .595    *  32   .695
33   .617    .600   *  83   .615  .598  *   3   .609   17   .595    *  33   .692
34   .614    .599   *  84   .623  .598  *   4   .602   18   .595    *  34   .685
35   .615    .600   *  85   .625  .599  *   5   .603   19   .595    *  35   .771
36   .615    .601   *  86   .622  .600  *   6   .605   20   .595    *  36   .749
37   .615    .600   *  87   .619  .602  *   7   .607   21   .594    *  37   .742
38   .614    .599   *  88   .618  .600  *   8   .608   22   .594    *  38   .739
39   .617    .599   *  89   .621  .599  *   9   .608   23   .594    *  39   .739
40   .615    .598   *  90   .616  .599  *  10   .607   24   .594    *  40   .721
41   .614    .597   *  91   .608  .597  *  11   .607   25   .594    *  41   .716
42   .614    .597   *  92   .604  .596  *  12   .606   26   .594    *  42   .712
43   .611    .597   *  93   .598  .596  *  13   .605   27   .595    *  43   .704
44   .608    .597   *  94   .600  .597  *  14   .604   28   .595    *  44   .695
45   .606    .596   *  95   .595  .588  *  15   .600   29   .595    *  45   .685
46   .604    .597   *  96   .581  .586  *  16   .600   30   .595    *  46   .676
47   .603    .596   *                   *  17   .600   31   .595    *  47   .659
48   .602    .597   *                   *  18   .600   32   .595    *  48   .643
49   .601    .597   *                   *  19   .601   33   .595    *  49   .638
50   .599    .597   *                   *  20   .601   34   .595    *  50   .638
51   .600    .597   *                   *  21   .601   35   .595    *
52   .599    .596   *      PRISES COL   *  22   .602   36   .595    *
53   .598    .596   *                   *  23   .600   37   .595    *
54   .596    .596   *      .657  1.052  *  24   .603   38   .595    *
55   .595    .593   *      .691   .816  *  25   .604   39   .595    *
56   .591    .591   *      .795   .795  *  26   .606   40   .595    *
57   .586    .589   *      .861   .691  *  27   .607   41   .595    *
58   .578    .585   *     1.017   .629  *  28   .608   42   .595    *
                                       *  29   .607   43   .595    *
                                       *  30   .605   44   .595    *
                                       *  31   .603   45   .595    *
                                       *  32   .603
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*****************************   FICHIER AD151      N0(IT)=  1
23/ 8/85 11H40  AS07  M=.6  I=0  R 1-4   ADAPTE  3D    AD151
DE AD9107 1'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .5943       UINF=  231.108 M/S
                     TIV=300.0 K       PIV=  1391 MB
*******************************************************************************

        MACH PAROIS HAUTE ET BASSE          *   MACH PAROIS LATER.      *  AILE AS07
                                            *                           *
  I     HAUT     BAS       I    HAUT    BAS  *   I   MACH     I   MACH  *   I   MACH
                                            *                           *
  1    .595    .594  * PRISES DOUBLES       *  HUB. AMONT   33   .597  *   1   .581
  2    .595    .597  *                      *                34   .596  *   2   .592
  3    .594    .595  *  59   .594   .595     *   1   .594     35   .596  *   3   .624
  4    .593    .594  *  60   .594   .594     *   2   .594     36   .596  *   4   .665
  5    .593    .595  *  61   .599   .594     *   3   .594     37   .596  *   5   .655
  6    .595    .596  *                      *   4   .595     38   .596  *   6   .619
  7    .594    .595  * PRISES LAT. GAUCHES   *   5   .594     39   .596  *   7   .574
  8    .595    .593  *                      *   6   .594     40   .596  *   8   .567
  9    .594    .594  *  62   .593   .595     *   7   .593     41   .597  *   9   .280
 10    .595    .592  *  63   .596   .597     *   8   .593     42   .597  *  10   .818
 11    .592    .592  *  64   .598   .599     *   9   .593     43   .596  *  11   .803
 12    .590    .593  *  65   .595   .595     *  10   .594     44   .595  *  12   .738
 13    .592    .593  *  66   .595   .594     *  11   .595     45   .595  *  13   .717
 14    .592    .595  *  67   .599   .596     *                           *  14   .702
 15    .593    .595  *  68   .600   .597     *  HUB. AVAL    HUB. DROIT  *  15   .694
 16    .594    .595  *  69   .601   .598     *                           *  16   .683
 17    .595    .595  *  70   .603   .595     *   1   .600     1   .594   *  17   .677
 18    .597    .594  *  71   .597   .595     *   2   .599     2   .594   *  18   .675
 19    .596    .593  *  72   .600   .596     *   3   .599     3   .595   *  19   .672
 20    .596    .595  *  73   .596   .599     *   4   .598     4   .595   *  20   .673
 21    .595    .595  *                      *   5   .597     5   .595   *  21   .668
 22    .598    .594  * PRISES LAT. DROITES   *   6   .598     6   .595   *  22   .667
 23    .599    .594  *                      *   7   .598     7   .594   *  23   .658
 24    .597    .595  *  74   .594   .597     *   8   .600     8   .594   *  24   .650
 25    .598    .596  *  75   .595   .595     *   9   .598     9   .594   *  25   .673
 26    .597    .595  *  76   .594   .592     *  10   .597    10   .594   *  26   .621
 27    .600    .595  *  77   .592   .592     *  11   .596    11   .595   *  27   .668
 28    .602    .597  *  78   .595   .594     *               12   .595   *  28   .691
 29    .604    .597  *  79   .595   .591     *  HUB. GAUCHE  13   .595   *  29   .689
 30    .603    .597  *  80   .600   .593     *               14   .595   *  30   .687
 31    .606    .594  *  81   .603   .594     *   1   .600    15   .594   *  31   .683
 32    .603    .597  *  82   .600   .595     *   2   .600    16   .594   *  32   .310
 33    .605    .597  *  83   .604   .596     *   3   .599    17   .594   *  33   .846
 34    .603    .596  *  84   .609   .595     *   4   .597    18   .594   *  34   .805
 35    .605    .596  *  85   .611   .598     *   5   .597    19   .594   *  35   .758
 36    .604    .597  *  86   .609   .598     *   6   .598    20   .594   *  36   .734
 37    .606    .596  *  87   .609   .599     *   7   .599    21   .594   *  37   .726
 38    .605    .597  *  88   .608   .596     *   8   .601    22   .594   *  38   .721
 39    .608    .596  *  89   .611   .595     *   9   .602    23   .594   *  39   .713
 40    .605    .595  *  90   .606   .595     *  10   .601    24   .594   *  40   .707
 41    .604    .595  *  91   .601   .594     *  11   .600    25   .594   *  41   .701
 42    .605    .594  *  92   .599   .595     *  12   .600    26   .594   *  42   .698
 43    .603    .593  *  93   .597   .595     *  13   .600    27   .594   *  43   .693
 44    .600    .593  *  94   .601   .595     *  14   .599    28   .595   *  44   .686
 45    .599    .593  *  95   .599   .582     *  15   .597    29   .595   *  45   .679
 46    .597    .594  *  96   .594   .580     *  16   .596    30   .595   *  46   .672
 47    .599    .595  *                      *  17   .596    31   .595   *  47   .652
 48    .599    .596  *                      *  18   .596    32   .595   *  48   .638
 49    .599    .595  *                      *  19   .596    33   .595   *  49   .661
 50    .599    .594  *                      *  20   .596    34   .595   *  50   .633
 51    .600    .595  *                      *  21   .596    35   .595   *
 52    .600    .594  *       PRISES COL     *  22   .597    36   .595   *
 53    .601    .596  *                      *  23   .596    37   .595   *
 54    .601    .596  *        .657  1.048   *  24   .599    38   .595   *
 55    .600    .592  *        .690   .919   *  25   .600    39   .595   *
 56    .598    .589  *        .795   .796   *  26   .600    40   .595   *
 57    .597    .584  *        .861   .690   *  27   .602    41   .594   *
 58    .594    .575  *       1.018   .629   *  28   .603    42   .595   *
                                            *  29   .602    43   .595   *
                                            *  30   .600    44   .594   *
                                            *  31   .599    45   .595   *
                                            *  32   .598
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**************************   FICHIER AD152      NB(IT)=  4
23/ 8/85 11H55  AS07  M=.8  I=0  R 1-4  ADAPTE  2D    AD152
DE AD134 4'ITE.
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .8022      UINF=  231.108 M/S
                  TIV=295.3 K       PIV=  1652 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.804	.800	PRISES DOUBLES			HUB. AMONT		33	.807	1	.784
2	.804	.806						34	.806	2	.808
3	.803	.802	59	.803	.802	1	.797	35	.805	3	.871
4	.799	.801	60	.805	.803	2	.796	36	.804	4	.944
5	.800	.802	61	.799	.796	3	.796	37	.804	5	.903
6	.804	.805				4	.798	38	.804	6	.829
7	.803	.802	PRISES LAT. GAUCHES			5	.796	39	.804	7	.752
8	.805	.801				6	.796	40	.806	8	.741
9	.805	.804	62	.801	.801	7	.796	41	.808	9	.834
10	.806	.798	63	.796	.807	8	.795	42	.807	10	1.171
11	.801	.799	64	.806	.804	9	.796	43	.803	11	1.213
12	.796	.799	65	.803	.801	10	.796	44	.802	12	1.078
13	.798	.799	66	.810	.800	11	.797	45	.801	13	1.010
14	.797	.801	67	.814	.804					14	.976
15	.799	.802	68	.816	.802	HUB. AVAL		HUB. DROIT		15	.969
16	.799	.799	69	.820	.805					16	.958
17	.802	.798	70	.818	.804	1	.802	1	.802	17	.951
18	.806	.797	71	.808	.799	2	.802	2	.802	18	.956
19	.804	.798	72	.805	.802	3	.801	3	.802	19	.955
20	.802	.802	73	.800	.807	4	.804	4	.802	20	.954
21	.801	.801				5	.802	5	.802	21	.952
22	.808	.797	PRISES LAT. DROITES			6	.801	6	.802	22	.944
23	.813	.796				7	.801	7	.802	23	.921
24	.814	.799	74	.802	.805	8	.802	8	.802	24	.754
25	.815	.803	75	.804	.803	9	.803	9	.802	25	.783
26	.815	.803	76	.803	.799	10	.800	10	.802	26	.859
27	.820	.801	77	.798	.798	11	.800	11	.802	27	.954
28	.820	.804	78	.799	.795			12	.802	28	.919
29	.825	.805	79	.802	.792	HUB. GAUCHE		13	.802	29	.879
30	.821	.804	80	.809	.799			14	.803	30	.825
31	.828	.800	81	.821	.797	1	.816	15	.802	31	.821
32	.823	.805	82	.818	.801	2	.815	16	.802	32	.+17
33	.828	.805	83	.828	.801	3	.815	17	.802	33	1.421
34	.824	.801	84	.837	.804	4	.806	18	.802	34	1.379
35	.828	.802	85	.839	.807	5	.807	19	.802	35	1.315
36	.827	.803	86	.836	.807	6	.811	20	.802	36	1.014
37	.830	.801	87	.835	.805	7	.815	21	.802	37	1.023
38	.826	.802	88	.833	.802	8	.820	22	.802	38	1.037
39	.828	.801	89	.832	.800	9	.821	23	.802	39	1.070
40	.823	.801	90	.821	.802	10	.817	24	.802	40	1.059
41	.821	.801	91	.811	.804	11	.815	25	.802	41	1.019
42	.821	.802	92	.812	.799	12	.814	26	.802	42	1.018
43	.816	.802	93	.802	.798	13	.813	27	.802	43	1.003
44	.810	.803	94	.804	.799	14	.812	28	.802	44	.981
45	.809	.801	95	.797	.799	15	.806	29	.802	45	.951
46	.807	.801	96	.796	.796	16	.805	30	.802	46	.938
47	.812	.798				17	.804	31	.802	47	.903
48	.810	.799				18	.805	32	.802	48	.845
49	.809	.799				19	.806	33	.802	49	.905
50	.805	.800				20	.806	34	.802	50	.836
51	.804	.801				21	.808	35	.803		
52	.802	.797	PRISES COL			22	.809	36	.803		
53	.801	.800				23	.807	37	.802		
54	.801	.801	.849	1.211		24	.812	38	.802		
55	.802	.800	.869	1.186		25	.814	39	.802		
56	.801	.798	.936	.899		26	.817	40	.802		
57	.800	.799	.981	.823		27	.821	41	.802		
58	.799	.797	1.140	.780		28	.823	42	.802		
						29	.813	43	.802		
						30	.811	44	.802		
						31	.807	45	.802		
						32	.808				

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*****************************   FICHIER AD153      N0(IT)=  1
23/ 8/85 14H40   AS07   M=.8   I=0   R 1-4   NON ADAPTE      AD153
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
--------------------------------------------------------------------------------
        MACH DE REFERENCE= .8029       UINF=  231.108 M/S
                      TIV=302.4 K       PIV=  1650 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
						HUB. AMONT					
1	.802	.801	PRISES DOUBLES					33	.832	1	.811
2	.801	.805						34	.831	2	.833
3	.801	.802	59	.800	.801	1	.803	35	.829	3	.900
4	.800	.803	60	.803	.804	2	.802	36	.822	4	.972
5	.800	.804	61	.813	.811	3	.802	37	.825	5	.937
6	.802	.805				4	.801	38	.826	6	.859
7	.800	.801	PRISES LAT. GAUCHES			5	.801	39	.829	7	.771
8	.804	.802				6	.801	40	.833	8	.742
9	.805	.807	62	.800	.802	7	.801	41	.834	9	.827
10	.804	.799	63	.796	.809	8	.802	42	.830	10	1.277
11	.800	.801	64	.812	.810	9	.801	43	.828	11	1.338
12	.798	.802	65	.819	.814	10	.801	44	.827	12	1.115
13	.800	.803	66	.829	.821	11	.803	45	.826	13	1.043
14	.799	.805	67	.848	.824					14	.996
15	.802	.806	68	.855	.828	HUB. AVAL		HUB. DROIT		15	.984
16	.804	.804	69	.860	.834					16	.987
17	.805	.803	70	.851	.826	1	.817	1	.803	17	.980
18	.810	.805	71	.828	.819	2	.816	2	.803	18	.992
19	.812	.807	72	.821	.818	3	.816	3	.803	19	.997
20	.817	.813	73	.815	.823	4	.820	4	.803	20	1.012
21	.818	.813				5	.817	5	.804	21	1.011
22	.820	.809	PRISES LAT. DROITES			6	.815	6	.804	22	.993
23	.825	.809				7	.813	7	.803	23	.961
24	.829	.817	74	.801	.805	8	.813	8	.803	24	.775
25	.834	.824	75	.801	.803	9	.816	9	.803	25	.806
26	.838	.823	76	.802	.801	10	.814	10	.803	26	.887
27	.847	.821	77	.801	.802	11	.815	11	.803	27	.996
28	.852	.825	78	.803	.801			12	.803	28	.892
29	.863	.827	79	.810	.802	HUB. GAUCHE		13	.803	29	.909
30	.858	.826	80	.826	.811			14	.803	30	.851
31	.871	.823	81	.832	.811	1	.854	15	.803	31	.855
32	.867	.831	82	.838	.822	2	.851	16	.803	32	.421
33	.875	.833	83	.855	.822	3	.849	17	.803	33	1.411
34	.869	.830	84	.876	.825	4	.824	18	.803	34	1.379
35	.875	.831	85	.883	.831	5	.830	19	.803	35	1.341
36	.871	.832	86	.883	.833	6	.808	20	.803	36	1.257
37	.871	.829	87	.881	.833	7	.847	21	.802	37	1.056
38	.866	.829	88	.874	.830	8	.853	22	.803	38	1.064
39	.864	.827	89	.866	.825	9	.854	23	.803	39	1.085
40	.858	.824	90	.850	.824	10	.845	24	.803	40	1.105
41	.853	.823	91	.841	.826	11	.846	25	.803	41	1.108
42	.854	.823	92	.832	.819	12	.843	26	.803	42	1.102
43	.847	.823	93	.819	.816	13	.841	27	.803	43	1.113
44	.840	.824	94	.820	.815	14	.839	28	.803	44	1.016
45	.837	.821	95	.812	.803	15	.821	29	.803	45	.879
46	.833	.822	96	.813	.799	16	.821	30	.803	46	.955
47	.830	.818				17	.821	31	.803	47	.937
48	.826	.818				18	.824	32	.803	48	.860
49	.824	.816				19	.826	33	.803	49	.930
50	.820	.816				20	.828	34	.803	50	.854
51	.819	.815				21	.831	35	.803		
52	.815	.811	PRISES COL			22	.834	36	.803		
53	.817	.815				23	.833	37	.803		
54	.816	.817	.855	1.211		24	.839	38	.803		
55	.816	.813	.866	1.036		25	.842	39	.803		
56	.814	.809	.938	.882		26	.846	40	.804		
57	.815	.805	.982	.816		27	.851	41	.804		
58	.818	.794	1.142	.776		28	.852	42	.804		
						29	.843	43	.804		
						30	.834	44	.804		
						31	.829	45	.804		
						32	.834				

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**************************   FICHIER AD154      NO(IT)=  1
23/ 8/85 14H50  AS07  M=.8  I=0  R 1-4   ADAPTE 3D  AD154
DE AD9113 1'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .3025      UINF=  231.108 M/S
                        TIV=301.5 K      PIV=  1652 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.805	.803	PRISES DOUBLES			HUB. AMONT		33	.807	1	.787
2	.802	.806						34	.806	2	.811
3	.801	.804	59	.799	.802	1	.798	35	.805	3	.871
4	.800	.806	60	.803	.802	2	.797	36	.805	4	.940
5	.800	.807	61	.804	.799	3	.797	37	.805	5	.914
6	.801	.806				4	.798	38	.805	6	.945
7	.800	.802	PRISES LAT. GAUCHES			5	.796	39	.805	7	.750
8	.806	.803				6	.796	40	.807	8	.753
9	.808	.808	62	.800	.804	7	.796	41	.809	9	.833
10	.804	.796	63	.795	.805	8	.795	42	.808	10	1.232
11	.799	.796	64	.807	.808	9	.797	43	.804	11	1.193
12	.796	.798	65	.804	.800	10	.797	44	.803	12	1.053
13	.797	.799	66	.805	.805	11	.799	45	.802	13	.994
14	.796	.801	67	.814	.803					14	.969
15	.798	.803	68	.812	.803	HUB. AVAL		HUB. DROIT		15	.961
16	.800	.802	69	.814	.808					16	.950
17	.802	.802	70	.813	.805	1	.805	1	.802	17	.945
18	.805	.802	71	.808	.800	2	.803	2	.803	18	.949
19	.804	.802	72	.805	.804	3	.803	3	.803	19	.950
20	.804	.802	73	.813	.808	4	.805	4	.802	20	.957
21	.803	.800				5	.803	5	.802	21	.951
22	.805	.797	PRISES LAT. DROITES			6	.802	6	.802	22	.944
23	.807	.798				7	.802	7	.802	23	.923
24	.808	.803	74	.801	.807	8	.803	8	.803	24	.897
25	.809	.808	75	.800	.803	9	.804	9	.803	25	.788
26	.810	.806	76	.801	.798	10	.801	10	.803	26	.860
27	.816	.803	77	.797	.798	11	.801	11	.803	27	.847
28	.817	.805	78	.799	.799			12	.802	28	.901
29	.824	.805	79	.801	.796	HUB. GAUCHE		13	.803	29	.992
30	.819	.804	80	.811	.798			14	.803	30	.946
31	.827	.801	81	.814	.799	1	.814	15	.803	31	.945
32	.822	.806	82	.812	.806	2	.814	16	.803	32	.415
33	.815	.807	83	.823	.806	3	.813	17	.802	33	1.382
34	.820	.804	84	.835	.806	4	.804	18	.803	34	1.329
35	.824	.806	85	.837	.809	5	.805	19	.801	35	1.231
36	.822	.807	86	.832	.809	6	.809	20	.803	36	1.095
37	.824	.805	87	.830	.809	7	.813	21	.803	37	1.030
38	.821	.804	88	.827	.805	8	.817	22	.802	38	1.044
39	.825	.804	89	.829	.803	9	.819	23	.802	39	1.059
40	.821	.803	90	.819	.805	10	.815	24	.803	40	1.021
41	.820	.803	91	.812	.806	11	.813	25	.803	41	1.013
42	.821	.803	92	.811	.800	12	.812	26	.803	42	1.010
43	.817	.803	93	.801	.801	13	.811	27	.803	43	.998
44	.811	.803	94	.805	.802	14	.810	28	.803	44	.977
45	.810	.801	95	.802	.797	15	.806	29	.803	45	.949
46	.807	.801	96	.815	.794	16	.804	30	.803	46	.929
47	.811	.799				17	.804	31	.803	47	.901
48	.808	.801				18	.804	32	.803	48	.844
49	.808	.802				19	.804	33	.803	49	.804
50	.805	.804				20	.805	34	.803	50	.836
51	.805	.803				21	.806	35	.803		
52	.806	.800	PRISES COL			22	.807	36	.803		
53	.807	.802				23	.806	37	.803		
54	.806	.802	.844	1.207		24	.811	38	.803		
55	.809	.799	.867	1.184		25	.814	39	.803		
56	.811	.796	.932	.996		26	.817	40	.803		
57	.817	.792	.977	.821		27	.821	41	.803		
58	.827	.779	1.136	.779		28	.822	42	.803		
						29	.817	43	.803		
						30	.810	44	.803		
						31	.807	45	.803		
						32	.808				

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**************************   FICHIER AD155      N0(IT)=  4
23/ 3/85 15H20  AS07  M=.6  I=-2  R 1-4     ADAPTE 3D  AD155
DE AD144  4'ITE
--------------------------------------------------------------------------------
       MACH DE REFERENCE= .5951       UINF=  231.108 M/S
                    TIW=296.6 K.      PIW=  1.394 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.596	.594		PRISES DOUBLES			HUB. AMONT		33	.597		1	.588
2	.596	.598							34	.597		2	.599
3	.595	.595		59	.594	.595	1	.594	35	.597		3	.595
4	.593	.594		60	.596	.596	2	.594	36	.596		4	.675
5	.593	.595		61	.594	.594	3	.594	37	.597		5	.678
6	.595	.597					4	.595	38	.597		6	.657
7	.594	.595		PRISES LAT. GAUCHES			5	.594	39	.597		7	.611
8	.595	.595					6	.593	40	.598		8	.604
9	.596	.597		62	.594	.595	7	.594	41	.598		9	.677
10	.597	.593		63	.597	.598	8	.593	42	.597		10	.703
11	.595	.593		64	.597	.597	9	.593	43	.597		11	.703
12	.593	.593		65	.594	.594	10	.593	44	.596		12	.685
13	.594	.593		66	.596	.595	11	.594	45	.596		13	.680
14	.594	.595		67	.599	.598						14	.668
15	.594	.595		68	.599	.599	HUB. AVAL		HUB. DROIT			15	.663
16	.593	.593		69	.598	.600						16	.658
17	.594	.594		70	.600	.596	1	.596	1	.595		17	.655
18	.597	.595		71	.597	.596	2	.596	2	.595		18	.655
19	.595	.595		72	.596	.596	3	.596	3	.595		19	.654
20	.595	.595		73	.585	.598	4	.596	4	.595		20	.658
21	.593	.595					5	.596	5	.595		21	.656
22	.596	.595		PRISES LAT. DROITES			6	.596	6	.595		22	.658
23	.597	.595					7	.596	7	.595		23	.652
24	.597	.596		74	.595	.597	8	.597	8	.595		24	.574
25	.597	.597		75	.595	.595	9	.597	9	.595		25	.580
26	.597	.596		76	.595	.594	10	.596	10	.595		26	.628
27	.599	.597		77	.594	.592	11	.596	11	.595		27	.681
28	.601	.598		78	.593	.592			12	.595		28	.695
29	.602	.600		79	.594	.593	HUB. GAUCHE		13	.595		29	.682
30	.601	.599		80	.598	.595			14	.595		30	.675
31	.603	.598		81	.600	.597	1	.599	15	.595		31	.711
32	.601	.600		82	.598	.598	2	.598	16	.595		32	.699
33	.602	.601		83	.601	.600	3	.598	17	.595		33	.705
34	.600	.600		84	.606	.602	4	.596	18	.595		34	.715
35	.601	.601		85	.607	.603	5	.595	19	.595		35	.693
36	.601	.600		86	.605	.603	6	.597	20	.595		36	.680
37	.601	.599		87	.603	.602	7	.598	21	.595		37	.681
38	.601	.598		88	.603	.600	8	.599	22	.595		38	.681
39	.603	.598		89	.607	.598	9	.599	23	.595		39	.681
40	.601	.597		90	.603	.597	10	.598	24	.595		40	.679
41	.601	.597		91	.598	.596	11	.598	25	.595		41	.677
42	.602	.596		92	.599	.597	12	.598	26	.595		42	.677
43	.599	.596		93	.594	.595	13	.598	27	.595		43	.674
44	.597	.596		94	.596	.595	14	.597	28	.595		44	.674
45	.596	.595		95	.593	.590	15	.597	29	.595		45	.670
46	.596	.596		96	.583	.588	16	.596	30	.595		46	.669
47	.599	.596					17	.596	31	.595		47	.643
48	.598	.597					18	.596	32	.595		48	.631
49	.598	.596					19	.596	33	.595		49	.631
50	.596	.595					20	.596	34	.595		50	.634
51	.596	.595					21	.596	35	.595			
52	.595	.594		PRISES COL			22	.597	36	.595			
53	.595	.595					23	.595	37	.595			
54	.595	.594		.657	1.049		24	.598	38	.595			
55	.593	.593		.395	.934		25	.598	39	.595			
56	.591	.591		.733	.801		26	.599	40	.595			
57	.587	.591		.859	.694		27	.600	41	.595			
58	.581	.589		1.017	.632		28	.601	42	.595			
							29	.600	43	.595			
							30	.598	44	.595			
							31	.597	45	.595			
							32	.597					

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**************************   FICHIER AD156      NOCIT=  1
23/ 8/85 15H40  AS07  M=.6  I=-3  R 1-4   NON  ADAPTE   AD156
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
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       MACH DE REFERENCE= .5958      UINF=  231.108 M/S
                          TIV=301.1 K      PIV=  1335 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.596	.595	+ PRISES DOUBLES				HUB. AMONT		33	.604	1	.594
2	.596	.598	+						34	.604	2	.597
3	.596	.596	+	59	.596	.596	1	.596	35	.604	3	.600
4	.594	.595	+	60	.597	.598	2	.596	36	.602	4	.602
5	.594	.596	+	61	.599	.598	3	.596	37	.603	5	.603
6	.596	.598	+				4	.596	38	.603	6	.604
7	.596	.596	+ PRISES LAT. GAUCHES				5	.595	39	.604	7	.604
8	.597	.596	+				6	.595	40	.605	8	.605
9	.597	.598	+	62	.594	.596	7	.595	41	.605	9	.606
10	.597	.595	+	63	.597	.599	8	.596	42	.605	10	.731
11	.595	.596	+	64	.599	.599	9	.596	43	.604	11	.741
12	.593	.596	+	65	.600	.599	10	.596	44	.603	12	.705
13	.594	.596	+	66	.603	.601	11	.596	45	.603	13	.689
14	.594	.597	+	67	.607	.603					14	.677
15	.595	.597	+	68	.608	.605	HUB. AVAL		HUB. DROIT		15	.673
16	.595	.595	+	69	.609	.608					16	.667
17	.596	.596	+	70	.610	.603	1	.599	1	.598	17	.664
18	.598	.596	+	71	.602	.601	2	.600	2	.596	18	.664
19	.597	.597	+	72	.601	.600	3	.599	3	.596	19	.663
20	.599	.598	+	73	.598	.600	4	.601	4	.595	20	.663
21	.599	.600	+				5	.599	5	.595	21	.663
22	.603	.600	+ PRISES LAT. DROITES				6	.599	6	.595	22	.663
23	.603	.601	+				7	.599	7	.595	23	.663
24	.603	.603	+	74	.595	.598	8	.600	8	.596	24	.663
25	.604	.605	+	75	.595	.596	9	.601	9	.596	25	.663
26	.604	.604	+	76	.595	.595	10	.600	10	.595	26	.663
27	.605	.603	+	77	.594	.594	11	.600	11	.595	27	.662
28	.607	.604	+	78	.595	.595			12	.595	28	.704
29	.609	.605	+	79	.596	.594	HUB. GAUCHE		13	.596	29	.692
30	.608	.604	+	80	.604	.599			14	.596	30	.682
31	.612	.604	+	81	.606	.603	1	.608	15	.595	31	.678
32	.610	.607	+	82	.604	.605	2	.607	16	.595	32	.671
33	.611	.608	+	83	.609	.606	3	.606	17	.595	33	.671
34	.609	.606	+	84	.614	.607	4	.601	18	.595	34	.671
35	.611	.608	+	85	.615	.608	5	.602	19	.595	35	.670
36	.611	.608	+	86	.614	.609	6	.604	20	.595	36	.671
37	.612	.606	+	87	.614	.610	7	.605	21	.595	37	.671
38	.611	.605	+	88	.613	.608	8	.607	22	.597	38	.671
39	.613	.604	+	89	.613	.604	9	.608	23	.596	39	.672
40	.611	.603	+	90	.613	.604	10	.607	24	.597	40	.670
41	.611	.603	+	91	.607	.604	11	.605	25	.597	41	.668
42	.613	.603	+	92	.604	.602	12	.605	26	.597	42	.668
43	.609	.603	+	93	.598	.599	13	.605	27	.596	43	.668
44	.606	.603	+	94	.601	.599	14	.605	28	.596	44	.664
45	.605	.602	+	95	.597	.599	15	.602	29	.597	45	.661
46	.603	.603	+	96	.596	.598	16	.601	30	.596	46	.660
47	.603	.601	+				17	.601	31	.596	47	.657
48	.602	.600	+				18	.601	32	.596	48	.656
49	.601	.598	+				19	.602	33	.596	49	.654
50	.599	.598	+				20	.603	34	.596	50	.648
51	.600	.599	+				21	.604	35	.596		
52	.599	.597	+	PRISES COL			22	.605	36	.596		
53	.600	.598	+				23	.603	37	.596		
54	.599	.598	+		.656	1.049	24	.606	38	.596		
55	.598	.595	+		.694	.925	25	.607	39	.596		
56	.594	.593	+		.794	.801	26	.608	40	.596		
57	.591	.592	+		.860	.694	27	.609	41	.596		
58	.586	.589	+		1.017	.633	28	.609	42	.596		
							29	.608	43	.596		
							30	.606	44	.596		
							31	.604	45	.596		
							32	.604				

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****************************   FICHIER AD157      N0(IT)=  1
23/ 8/85 16H10  AS07  M=.6  I=-2  R 1-4     ADAPTE 3D   AD157
DE AD9142 1'ITE.
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      MACH DE REFERENCE= .5961       UINF=  231.108 M/S
                    TIV=301.8 K       PIV=  1395 MB
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MACH PAROIS HAUTE ET BASSE						*	MACH PAROIS LATER.				*	AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	*	I	MACH	I	MACH	*	I	MACH
1	.597	.596	* PRISES DOUBLES			*	HUB. AMONT		33	.599	*	1	.589
2	.597	.599	*			*			34	.599	*	2	.602
3	.597	.597	* 59	.595	.596	*	1	.595	35	.599	*	3	.635
4	.595	.596	* 60	.597	.598	*	2	.595	36	.598	*	4	.680
5	.594	.596	* 61	.598	.598	*	3	.595	37	.598	*	5	.681
6	.596	.598	*			*	4	.595	38	.598	*	6	.660
7	.596	.596	* PRISES LAT. GAUCHES			*	5	.595	39	.599	*	7	.627
8	.596	.595	*			*	6	.595	40	.600	*	8	.633
9	.597	.598	* 62	.595	.596	*	7	.595	41	.600	*	9	.278
10	.597	.595	* 63	.598	.600	*	8	.595	42	.600	*	10	.724
11	.595	.596	* 64	.599	.599	*	9	.595	43	.599	*	11	.703
12	.593	.595	* 65	.596	.597	*	10	.596	44	.598	*	12	.698
13	.595	.595	* 66	.596	.596	*	11	.596	45	.598	*	13	.683
14	.594	.596	* 67	.602	.599	*					*	14	.671
15	.594	.596	* 68	.601	.600	*	HUB. AVAL		HUB. DROIT		*	15	.665
16	.595	.595	* 69	.600	.601	*					*	16	.660
17	.596	.596	* 70	.603	.599	*	1	.599	1	.596	*	17	.657
18	.599	.597	* 71	.599	.598	*	2	.599	2	.597	*	18	.657
19	.596	.597	* 72	.599	.601	*	3	.599	3	.597	*	19	.657
20	.596	.598	* 73	.598	.604	*	4	.599	4	.596	*	20	.661
21	.595	.598	*			*	5	.599	5	.596	*	21	.660
22	.598	.596	* PRISES LAT. DROITES			*	6	.600	6	.596	*	22	.662
23	.598	.596	*			*	7	.600	7	.596	*	23	.657
24	.598	.597	* 74	.596	.598	*	8	.601	8	.596	*	24	.677
25	.597	.599	* 75	.595	.595	*	9	.601	9	.596	*	25	.687
26	.597	.598	* 76	.596	.595	*	10	.600	10	.597	*	26	.681
27	.600	.599	* 77	.595	.595	*	11	.600	11	.596	*	27	.684
28	.602	.600	* 78	.595	.595	*			12	.596	*	28	.702
29	.605	.602	* 79	.596	.595	*	HUB. GAUCHE		13	.596	*	29	.686
30	.603	.601	* 80	.599	.599	*			14	.596	*	30	.680
31	.606	.600	* 81	.601	.598	*	1	.600	15	.596	*	31	.726
32	.604	.602	* 82	.599	.600	*	2	.600	16	.596	*	32	.689
33	.603	.602	* 83	.602	.601	*	3	.600	17	.596	*	33	.705
34	.600	.600	* 84	.608	.603	*	4	.597	18	.595	*	34	.717
35	.602	.602	* 85	.610	.604	*	5	.597	19	.595	*	35	.694
36	.601	.601	* 86	.607	.604	*	6	.598	20	.596	*	36	.682
37	.603	.600	* 87	.605	.603	*	7	.599	21	.596	*	37	.683
38	.603	.599	* 88	.605	.602	*	8	.600	22	.596	*	38	.685
39	.606	.599	* 89	.610	.600	*	9	.601	23	.596	*	39	.684
40	.604	.599	* 90	.606	.600	*	10	.601	24	.597	*	40	.682
41	.604	.599	* 91	.599	.598	*	11	.600	25	.597	*	41	.680
42	.605	.598	* 92	.602	.598	*	12	.599	26	.597	*	42	.680
43	.602	.598	* 93	.596	.598	*	13	.599	27	.596	*	43	.678
44	.598	.597	* 94	.599	.600	*	14	.599	28	.596	*	44	.676
45	.597	.596	* 95	.599	.598	*	15	.598	29	.596	*	45	.673
46	.597	.597	* 96	.595	.596	*	16	.597	30	.596	*	46	.669
47	.601	.597	*			*	17	.597	31	.596	*	47	.651
48	.601	.598	*			*	18	.597	32	.596	*	48	.641
49	.600	.598	*			*	19	.596	33	.597	*	49	.659
50	.597	.598	*			*	20	.597	34	.597	*	50	.640
51	.598	.599	*			*	21	.598	35	.597	*		
52	.599	.598	* PRISES COL			*	22	.599	36	.597	*		
53	.601	.600	*			*	23	.597	37	.596	*		
54	.600	.600	*	.658	1.054	*	24	.601	38	.596	*		
55	.600	.599	*	.694	.920	*	25	.601	39	.596	*		
56	.596	.598	*	.797	.802	*	26	.602	40	.597	*		
57	.591	.599	*	.863	.694	*	27	.603	41	.596	*		
58	.580	.600	*	1.020	.633	*	28	.604	42	.596	*		
						*	29	.602	43	.596	*		
						*	30	.601	44	.596	*		
						*	31	.600	45	.596	*		
						*	32	.599					

```
**********************************   FICHIER AD15B      NØ(IT)=  4
25/ 8/85 10H35 AS07 M=.6  I=-2  R 3-6   ADAPTE 2D  AD15B
DE AD144 4'ITE.
--------------------------------------------------------------------------------
      MACH DE REFERENCE= .5955      UINF=  231.108 M/S
                        TIV=294.7 K      PIV=  1393 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.596	.594	PRISES DOUBLES				HUB. AMONT		33	.598	1	.564
2	.596	.598							34	.598	2	.585
3	.596	.597		59	.595	.595	1	.595	35	.598	3	.631
4	.595	.597		60	.596	.596	2	.595	36	.597	4	.680
5	.595	.598		61	.594	.594	3	.594	37	.598	5	.692
6	.596	.598					4	.594	38	.598	6	.684
7	.595	.595	PRISES LAT. GAUCHES				5	.594	39	.598	7	.671
8	.596	.594					6	.594	40	.599	8	.635
9	.596	.596		62	.595	.597	7	.594	41	.600	9	.579
10	.596	.593		63	.597	.598	8	.593	42	.600	10	.719
11	.595	.594		64	.597	.597	9	.594	43	.598	11	.730
12	.594	.595		65	.597	.597	10	.594	44	.597	12	.702
13	.595	.594		66	.596	.594	11	.594	45	.596	13	.688
14	.595	.595		67	.600	.596					14	.679
15	.596	.596		68	.599	.597	HUB. AVAL		HUB. DROIT		15	.671
16	.596	.594		69	.599	.600					16	.674
17	.595	.594		70	.601	.597	1	.596	1	.595	17	.675
18	.596	.594		71	.598	.596	2	.597	2	.595	18	.673
19	.594	.595		72	.597	.595	3	.597	3	.595	19	.675
20	.596	.598		73	.598	.597	4	.597	4	.595	20	.677
21	.596	.598					5	.597	5	.595	21	.677
22	.600	.594	PRISES LAT. DROITES				6	.597	6	.595	22	.676
23	.599	.593					7	.597	7	.595	23	.671
24	.598	.596		74	.596	.599	8	.598	8	.595	24	.678
25	.597	.599		75	.595	.595	9	.598	9	.595	25	.682
26	.597	.598		76	.595	.594	10	.597	10	.595	26	.683
27	.599	.598		77	.595	.593	11	.597	11	.595	27	.675
28	.601	.599		78	.594	.593			12	.595	28	.669
29	.603	.600		79	.593	.593	HUB. GAUCHE		13	.595	29	.669
30	.602	.599		80	.601	.598			14	.595	30	.670
31	.604	.598		81	.602	.595	1	.600	15	.595	31	.735
32	.602	.600		82	.598	.600	2	.600	16	.595	32	.722
33	.603	.601		83	.601	.599	3	.599	17	.595	33	.696
34	.601	.598		84	.607	.600	4	.597	18	.595	34	.660
35	.602	.599		85	.608	.601	5	.597	19	.595	35	.661
36	.602	.599		86	.605	.601	6	.598	20	.595	36	.666
37	.603	.598		87	.605	.601	7	.599	21	.595	37	.671
38	.602	.597		88	.604	.600	8	.600	22	.595	38	.669
39	.604	.597		89	.608	.598	9	.600	23	.595	39	.664
40	.603	.597		90	.605	.598	10	.600	24	.596	40	.665
41	.603	.596		91	.600	.597	11	.599	25	.596	41	.665
42	.603	.596		92	.600	.596	12	.599	26	.596	42	.664
43	.601	.596		93	.597	.594	13	.599	27	.596	43	.670
44	.599	.595		94	.597	.594	14	.599	28	.596	44	.679
45	.598	.595		95	.593	.593	15	.598	29	.596	45	.683
46	.597	.596		96	.587	.592	16	.597	30	.595	46	.680
47	.599	.595					17	.597	31	.596	47	.667
48	.600	.595					18	.597	32	.596	48	.691
49	.600	.594					19	.597	33	.596	49	.648
50	.598	.595					20	.597	34	.596	50	.625
51	.597	.595					21	.598	35	.596		
52	.595	.594	PRISES COL				22	.598	36	.596		
53	.596	.595					23	.597	37	.596		
54	.595	.594			.653	1.047	24	.599	38	.596		
55	.595	.594			.696	.830	25	.600	39	.596		
56	.592	.593			.792	.804	26	.601	40	.596		
57	.590	.593			.859	.695	27	.602	41	.596		
58	.586	.595			1.014	.632	28	.603	42	.596		
							29	.602	43	.595		
							30	.600	44	.596		
							31	.599	45	.595		
							32	.598				

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****************************   FICHIER AD159      N0(IT)=  1
26/ 8/85 11H 0 AS07 M=.6  I=-2  R 3-5  NON ADAPTE   AD159
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
--------------------------------------------------------------------------------
      MACH DE REFERENCE= .5958      UINF=  231.108 M/S
                  TIW=298.9 K       PIW=  1392 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.596	.595	PRISES DOUBLES			HUB. AMONT		33	.605	1	.574
2	.597	.599						34	.604	2	.592
3	.596	.596	59	.595	.595	1	.597	35	.604	3	.604
4	.595	.596	60	.597	.598	2	.596	36	.602	4	.690
5	.594	.596	61	.597	.595	3	.596	37	.603	5	.704
6	.596	.597				4	.597	38	.603	6	.697
7	.596	.596	PRISES LAT. GAUCHES			5	.596	39	.604	7	.699
8	.597	.595				6	.596	40	.605	8	.695
9	.597	.598	62	.595	.596	7	.596	41	.606	9	.693
10	.597	.595	63	.597	.599	8	.596	42	.605	10	.729
11	.595	.596	64	.599	.599	9	.596	43	.604	11	.720
12	.592	.595	65	.600	.599	10	.597	44	.603	12	.713
13	.593	.595	66	.602	.599	11	.598	45	.603	13	.700
14	.594	.596	67	.611	.601					14	.689
15	.595	.597	68	.610	.603	HUB. AVAL		HUB. DROIT		15	.682
16	.596	.596	69	.607	.605					16	.685
17	.597	.597	70	.610	.601	1	.601	1	.596	17	.681
18	.599	.597	71	.601	.599	2	.600	2	.596	18	.685
19	.598	.597	72	.601	.599	3	.600	3	.596	19	.686
20	.600	.599	73	.589	.599	4	.602	4	.596	20	.688
21	.599	.600				5	.601	5	.596	21	.689
22	.603	.600	PRISES LAT. DROITES			6	.600	6	.596	22	.688
23	.604	.602				7	.600	7	.595	23	.688
24	.603	.604	74	.596	.599	8	.600	8	.595	24	.691
25	.603	.605	75	.596	.596	9	.600	9	.595	25	.693
26	.603	.603	76	.595	.595	10	.599	10	.596	26	.697
27	.606	.604	77	.594	.594	11	.600	11	.597	27	.696
28	.610	.605	78	.595	.595			12	.596	28	.701
29	.614	.606	79	.597	.595	HUB. GAUCHE		13	.596	29	.701
30	.612	.605	80	.604	.600			14	.596	30	.708
31	.614	.604	81	.605	.603	1	.608	15	.596	31	.749
32	.612	.607	82	.604	.606	2	.607	16	.596	32	.730
33	.612	.608	83	.609	.603	3	.606	17	.596	33	.707
34	.610	.605	84	.617	.604	4	.602	18	.596	34	.673
35	.610	.606	85	.619	.606	5	.603	19	.595	35	.673
36	.610	.606	86	.616	.607	6	.604	20	.595	36	.673
37	.611	.606	87	.613	.608	7	.605	21	.595	37	.674
38	.611	.604	88	.613	.605	8	.606	22	.595	38	.681
39	.614	.604	89	.617	.602	9	.607	23	.596	39	.679
40	.611	.602	90	.613	.602	10	.607	24	.596	40	.674
41	.611	.602	91	.607	.602	11	.606	25	.597	41	.677
42	.612	.602	92	.603	.599	12	.605	26	.596	42	.678
43	.610	.603	93	.600	.597	13	.605	27	.596	43	.681
44	.607	.603	94	.601	.597	14	.605	28	.596	44	.679
45	.605	.601	95	.596	.589	15	.602	29	.596	45	.664
46	.603	.601	96	.587	.587	16	.602	30	.596	46	.661
47	.603	.600				17	.602	31	.596	47	.679
48	.603	.600				18	.602	32	.596	48	.676
49	.603	.598				19	.602	33	.596	49	.653
50	.602	.598				20	.603	34	.596	50	.631
51	.601	.598				21	.603	35	.596		
52	.599	.596	PRISES COL			22	.604	36	.596		
53	.598	.597				23	.603	37	.596		
54	.598	.597	.654	1.045		24	.606	38	.596		
55	.597	.595	.892	.925		25	.607	39	.596		
56	.594	.593	.793	.801		26	.607	40	.596		
57	.592	.591	.860	.692		27	.608	41	.596		
58	.588	.589	1.015	.632		28	.609	42	.596		
						29	.607	43	.596		
						30	.605	44	.596		
						31	.604	45	.596		
						32	.605				

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**************************** FICHIER AD160      N0(IT)=  1
26/ 3/85 11H25 AS07 M=.6  I=-2  R 3-6   ADAPTE 3D  AD160
DE AD9142 1'ITE.
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .5964      UINF=  231.103 M/S
                    TIV=297.3 K      PIV=  1390 MB
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      MACH PAROIS HAUTE ET BASSE      *   MACH PAROIS LATER.      *  AILE AS07
                                      *                           *
 I    HAUT     BAS      I   HAUT    BAS *   I   MACH     I   MACH  *   I   MACH
                                      *                           *
 1    .598    .596  * PRISES DOUBLES   *  HUB. AMONT  33   .599  *   1   .570
 2    .597    .599  *                  *                34   .599  *   2   .589
 3    .596    .597  *  59   .595  .595 *   1   .595    35   .599  *   3   .630
 4    .594    .597  *  60   .598  .599 *   2   .594    36   .599  *   4   .681
 5    .594    .597  *  61   .600  .597 *   3   .594    37   .599  *   5   .699
 6    .596    .598  *                  *   4   .595    38   .599  *   6   .692
 7    .596    .596  * PRISES LAT. GAUCHES*  5   .594    39   .599  *   7   .686
 8    .597    .595  *                  *   6   .594    40   .600  *   8   .693
 9    .598    .598  *  62   .595  .597 *   7   .594    41   .601  *   9   .699
10    .598    .595  *  63   .599  .601 *   8   .593    42   .601  *  10   .710
11    .595    .597  *  64   .600  .599 *   9   .594    43   .599  *  11   .722
12    .594    .598  *  65   .597  .598 *  10   .594    44   .599  *  12   .706
13    .595    .597  *  66   .597  .595 *  11   .595    45   .598  *  13   .693
14    .595    .597  *  67   .603  .598 *                          *  14   .683
15    .596    .597  *  68   .601  .598 *  HUB. AVAL   HUB. DROIT *  15   .675
16    .597    .596  *  69   .600  .599 *                          *  16   .679
17    .598    .597  *  70   .604  .597 *   1   .600    1   .597  *  17   .680
18    .600    .598  *  71   .600  .597 *   2   .600    2   .596  *  18   .678
19    .598    .599  *  72   .601  .599 *   3   .600    3   .596  *  19   .679
20    .597    .600  *  73   .594  .602 *   4   .600    4   .597  *  20   .681
21    .596    .599  *                  *   5   .599    5   .597  *  21   .682
22    .599    .597  * PRISES LAT. DROITES*  6   .599    6   .597  *  22   .681
23    .598    .596  *                  *   7   .600    7   .597  *  23   .676
24    .597    .597  *  74   .596  .599 *   8   .601    8   .596  *  24   .686
25    .598    .599  *  75   .596  .597 *   9   .600    9   .596  *  25   .688
26    .598    .598  *  76   .597  .596 *  10   .599   10   .596  *  26   .685
27    .601    .600  *  77   .595  .596 *  11   .599   11   .596  *  27   .681
28    .603    .601  *  78   .596  .595 *                  12   .597  *  28   .695
29    .606    .603  *  79   .596  .596 *  HUB. GAUCHE   13   .597  *  29   .696
30    .604    .602  *  80   .600  .599 *                  14   .597  *  30   .704
31    .606    .600  *  81   .601  .599 *   1   .601    15   .597  *  31   .746
32    .604    .602  *  82   .599  .600 *   2   .600    16   .597  *  32   .807
33    .604    .603  *  83   .603  .600 *   3   .600    17   .597  *  33   .839
34    .601    .600  *  84   .609  .602 *   4   .598    18   .596  *  34   .868
35    .602    .601  *  85   .610  .603 *   5   .598    19   .596  *  35   .885
36    .602    .601  *  86   .607  .603 *   6   .599    20   .596  *  36   .870
37    .603    .600  *  87   .605  .602 *   7   .600    21   .596  *  37   .872
38    .603    .600  *  88   .605  .601 *   8   .601    22   .596  *  38   .873
39    .606    .600  *  89   .610  .599 *   9   .602    23   .596  *  39   .870
40    .604    .599  *  90   .607  .598 *  10   .602    24   .596  *  40   .870
41    .604    .598  *  91   .603  .596 *  11   .600    25   .597  *  41   .871
42    .605    .598  *  92   .602  .598 *  12   .600    26   .597  *  42   .870
43    .604    .597  *  93   .597  .597 *  13   .600    27   .597  *  43   .874
44    .602    .597  *  94   .601  .597 *  14   .600    28   .597  *  44   .866
45    .601    .596  *  95   .600  .594 *  15   .599    29   .597  *  45   .861
46    .600    .597  *  96   .592  .592 *  16   .598    30   .597  *  46   .853
47    .602    .598  *                  *  17   .598    31   .597  *  47   .870
48    .601    .599  *                  *  18   .598    32   .597  *  48   .852
49    .600    .599  *                  *  19   .598    33   .597  *  49   .848
50    .599    .598  *                  *  20   .598    34   .597  *  50   .836
51    .600    .598  *                  *  21   .598    35   .597  *
52    .601    .597  *       PRISES COL  *  22   .599    36   .597  *
53    .601    .599  *                  *  23   .597    37   .597  *
54    .601    .599  *     .661  1.055  *  24   .600    38   .597  *
55    .601    .598  *     .691   .920  *  25   .601    39   .597  *
56    .598    .596  *     .798   .799  *  26   .603    40   .597  *
57    .596    .595  *     .864   .693  *  27   .604    41   .597  *
58    .592    .594  *    1.020   .632  *  28   .604    42   .597  *
                                      *  29   .604    43   .597  *
                                      *  30   .603    44   .597  *
                                      *  31   .600    45   .597  *
                                      *  32   .599
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*****************************   FICHIER AD161      N0(IT)=  4
26/ 8/85 12H 0 AS07 M=.6  I=0   R 3-5   ADAPTE 2D  AD161
DE AD136 4'ITE.
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .5971     . UINF=  231.108 M/S
                    TIV=293.9 K      PIV=  1390 MB
*******************************************************************************

      MACH PAROIS HAUTE ET BASSE          *   MACH PAROIS LATER.      *  AILE AS07
                                          *                           *
 I    HAUT     BAS       I   HAUT    BAS  *   I   MACH     I   MACH   *   I   MACH
                                          *                           *
 1    .598    .595  + PRISES DOUBLES      *  HUB. AMONT   33   .598   +   1   .572
 2    .598    .598  +                     *               34   .597   +   2   .582
 3    .598    .597  +  59   .597   .595   *   1   .596     35   .597   +   3   .519
 4    .596    .597  +  60   .598   .596   *   2   .596     36   .597   +   4   .560
 5    .595    .597  +  61   .596   .594   *   3   .595     37   .597   +   5   .603
 6    .597    .598  +                     *   4   .596     38   .596   +   6   .547
 7    .597    .596  + PRISES LAT. GAUCHES *   5   .595     39   .596   +   7   .620
 8    .598    .595  +                     *   6   .595     40   .597   +   8   .566
 9    .599    .597  +  62   .596   .597   *   7   .594     41   .598   +   9   .611
10    .598    .598  +  63   .599   .598   *   8   .594     42   .598   +  10   .609
11    .596    .594  +  64   .598   .597   *   9   .595     43   .596   +  11   .602
12    .594    .594  +  65   .598   .595   *  10   .595     44   .595   +  12   .782
13    .595    .594  +  66   .598   .595   *  11   .594     45   .594   +  13   .758
14    .595    .595  +  67   .600   .598   *                           +  14   .738
15    .595    .595  +  68   .604   .595   *  HUB. AVAL    HUB. DROIT  +  15   .722
16    .595    .594  +  69   .604   .598   *                           +  16   .719
17    .596    .595  +  70   .604   .596   *   1   .597     1   .597   +  17   .715
18    .598    .595  +  71   .600   .598   *   2   .597     2   .597   +  18   .709
19    .597    .594  +  72   .597   .596   *   3   .597     3   .597   +  19   .707
20    .598    .595  +  73   .598   .596   *   4   .598     4   .597   +  20   .704
21    .598    .595  +                     *   5   .597     5   .597   +  21   .699
22    .601    .594  + PRISES LAT. DROITES *   6   .597     6   .597   +  22   .692
23    .601    .594  +                     *   7   .597     7   .597   +  23   .683
24    .601    .597  +  74   .597   .599   *   8   .599     8   .597   +  24   .686
25    .603    .597  +  75   .597   .596   *   9   .598     9   .597   +  25   .685
26    .602    .596  +  76   .597   .594   *  10   .597    10   .597   +  26   .682
27    .605    .595  +  77   .594   .593   *  11   .597    11   .596   +  27   .686
28    .606    .596  +  78   .594   .592   *               12   .596   +  28   .668
29    .609    .596  +  79   .596   .591   *  HUB. GAUCHE  13   .596   +  29   .648
30    .608    .596  +  80   .603   .593   *               14   .595   +  30   .627
31    .611    .593  +  81   .605   .594   *   1   .605     15   .596   +  31   .621
32    .609    .597  +  82   .604   .595   *   2   .604     16   .596   +  32   .614
33    .610    .597  +  83   .608   .593   *   3   .603     17   .596   +  33   .645
34    .608    .595  +  84   .614   .593   *   4   .600     18   .596   +  34   .701
35    .609    .596  +  85   .615   .594   *   5   .599     19   .596   +  35   .715
36    .608    .597  +  86   .613   .595   *   6   .601     20   .596   +  36   .717
37    .609    .596  +  87   .611   .596   *   7   .603     21   .596   +  37   .716
38    .608    .596  +  88   .611   .595   *   8   .605     22   .596   +  38   .719
39    .611    .596  +  89   .613   .595   *   9   .605     23   .596   +  39   .710
40    .608    .596  +  90   .608   .596   *  10   .604     24   .597   +  40   .702
41    .608    .596  +  91   .601   .597   *  11   .602     25   .596   +  41   .697
42    .608    .597  +  92   .602   .593   *  12   .602     26   .597   +  42   .693
43    .605    .597  +  93   .597   .594   *  13   .601     27   .597   +  43   .690
44    .600    .596  +  94   .598   .595   *  14   .600     28   .596   +  44   .675
45    .600    .596  +  95   .595   .590   *  15   .598     29   .596   +  45   .664
46    .599    .595  +  96   .588   .588   *  16   .597     30   .596   +  46   .658
47    .602    .592  +                     *  17   .597     31   .596   +  47   .673
48    .602    .594  +                     *  18   .598     32   .597   +  48   .646
49    .601    .595  +                     *  19   .598     33   .597   +  49   .646
50    .598    .596  +                     *  20   .598     34   .596   +  50   .619
51    .598    .596  +                     *  21   .599     35   .596   +
52    .597    .594  +       PRISES COL    *  22   .599     36   .597   +
53    .597    .594  +                     *  23   .598     37   .596   +
54    .596    .594  +        .658  1.053  *  24   .601     38   .596   +
55    .596    .593  +        .695   .917  *  25   .601     39   .596   +
56    .594    .592  +        .795   .798  *  26   .603     40   .596   +
57    .591    .590  +        .862   .699  *  27   .604     41   .596   +
58    .589    .591  +       1.017   .602  *  28   .604     42   .596   +
                                          *  29   .604     43   .596   +
                                          *  30   .602     44   .596   +
                                          *  31   .600     45   .596   +
                                          *  32   .599
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**********************************   FICHIER AD162      N0(IT)=  1
25/ 8/85 14H20 AS07 M=.6  I=0   R 3-6   NON ADAPTE    AD162
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
-------------------------------------------------------------------------------
      MACH DE REFERENCE= .5979      UINF=  231.108 M/S
                        TIV=299.4 K     PIV=  1391 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS	I	HAUT	BAS		I	MACH	I	MACH		I	MACH
1	.597	.596	PRISES DOUBLES				HUB. AMONT		33	.604		1	.569
2	.597	.600							34	.604		2	.580
3	.597	.598	59	.597	.598		1	.598	35	.603		3	.630
4	.596	.597	60	.599	.599		2	.599	36	.602		4	.669
5	.596	.597	61	.602	.599		3	.599	37	.603		5	.674
6	.598	.599					4	.599	38	.602		6	.653
7	.598	.598	PRISES LAT. GAUCHES				5	.597	39	.603		7	.6305
8	.598	.597					6	.597	40	.603		8	.6086
9	.598	.599	62	.596	.597		7	.598	41	.605		9	.822
10	.599	.596	63	.600	.601		8	.598	42	.604		10	.840
11	.598	.598	64	.600	.601		9	.598	43	.603		11	.833
12	.596	.598	65	.603	.599		10	.598	44	.603		12	.790
13	.598	.598	66	.607	.600		11	.598	45	.602		13	.764
14	.598	.600	67	.611	.600							14	.746
15	.599	.600	68	.613	.601		HUB. AVAL		HUB. DROIT			15	.739
16	.598	.598	69	.614	.604							16	.727
17	.599	.598	70	.615	.600		1	.602	1	.597		17	.724
18	.601	.598	71	.605	.600		2	.603	2	.599		18	.719
19	.600	.597	72	.602	.601		3	.603	3	.599		19	.717
20	.603	.599	73	.589	.603		4	.603	4	.598		20	.714
21	.604	.599					5	.603	5	.598		21	.709
22	.607	.599	PRISES LAT. DROITES				6	.603	6	.598		22	.701
23	.609	.599					7	.603	7	.598		23	.6992
24	.609	.602	74	.597	.599		8	.604	8	.599		24	.699
25	.611	.602	75	.597	.598		9	.604	9	.598		25	.698
26	.610	.602	76	.597	.596		10	.602	10	.598		26	.6927
27	.613	.600	77	.598	.597		11	.602	11	.598		27	.6872
28	.614	.601	78	.597	.596				12	.598		28	.6875
29	.617	.601	79	.600	.595		HUB. GAUCHE		13	.598		29	.6854
30	.616	.601	80	.609	.598				14	.598		30	.6834
31	.620	.599	81	.612	.600		1	.613	15	.598		31	.6825
32	.618	.603	82	.613	.602		2	.612	16	.598		32	.6821
33	.619	.603	83	.617	.600		3	.612	17	.599		33	.6858
34	.617	.602	84	.623	.600		4	.605	18	.599		34	.6900
35	.620	.603	85	.625	.601		5	.606	19	.599		35	.7011
36	.619	.604	86	.623	.602		6	.608	20	.599		36	.7145
37	.620	.602	87	.622	.603		7	.611	21	.599		37	.7135
38	.619	.602	88	.621	.602		8	.613	22	.598		38	.7118
39	.621	.601	89	.624	.601		9	.613	23	.598		39	.7115
40	.618	.601	90	.618	.601		10	.612	24	.598		40	.7109
41	.619	.601	91	.612	.600		11	.611	25	.598		41	.7099
42	.618	.601	92	.607	.599		12	.610	26	.598		42	.6999
43	.615	.600	93	.601	.599		13	.609	27	.598		43	.6897
44	.612	.600	94	.603	.600		14	.608	28	.598		44	.6862
45	.610	.599	95	.599	.591		15	.603	29	.598		45	.6871
46	.608	.600	96	.586	.588		16	.604	30	.597		46	.6864
47	.607	.599					17	.605	31	.597		47	.6883
48	.606	.600					18	.605	32	.597		48	.6903
49	.605	.600					19	.605	33	.597		49	.6934
50	.604	.601					20	.606	34	.597		50	.697
51	.604	.601					21	.606	35	.597			
52	.603	.600	PRISES COL				22	.606	36	.597			
53	.602	.600					23	.605	37	.597			
54	.601	.600	.660	1.055			24	.608	38	.597			
55	.599	.597	.692	.912			25	.609	39	.597			
56	.595	.595	.797	.798			26	.610	40	.598			
57	.591	.592	.863	.692			27	.611	41	.598			
58	.584	.587	1.019	.630			28	.612	42	.598			
							29	.610	43	.598			
							30	.608	44	.598			
							31	.606	45	.598			
							32	.605					

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*****************************   FICHIER AD163      NO(IT)=  1
26/ 8/85 14H40 AS07 M=.6  I=0   R 3-6    ADAPTE 3D    AD163
DE AD9107 1'ITE.
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      MACH DE REFERENCE= .5980       UINF=  231.108 M/S
                    TIV=298.8 K       PIV=  1390 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.599	.597		PRISES DOUBLES			HUB. AMONT		33	.601		1	.567
2	.599	.601							34	.600		2	.577
3	.598	.599		59	.598	.599	1	.599	35	.600		3	.617
4	.596	.598		60	.598	.598	2	.598	36	.600		4	.670
5	.596	.599		61	.603	.599	3	.598	37	.600		5	.676
6	.599	.600					4	.598	38	.600		6	.656
7	.598	.598		PRISES LAT. GAUCHES			5	.598	39	.600		7	.631
8	.599	.597					6	.598	40	.600		8	.612
9	.598	.598		62	.597	.598	7	.598	41	.601		9	.813
10	.599	.596		63	.600	.601	8	.597	42	.600		10	.821
11	.598	.597		64	.601	.602	9	.597	43	.599		11	.818
12	.596	.597		65	.598	.597	10	.597	44	.598		12	.779
13	.597	.597		66	.599	.598	11	.598	45	.598		13	.751
14	.598	.599		67	.603	.601						14	.733
15	.598	.600		68	.604	.600	HUB. AVAL		HUB. DROIT			15	.719
16	.599	.599		69	.604	.602						16	.716
17	.599	.600		70	.606	.599	1	.604	1	.598		17	.713
18	.602	.598		71	.600	.597	2	.604	2	.598		18	.708
19	.600	.597		72	.603	.599	3	.603	3	.598		19	.707
20	.599	.598		73	.598	.602	4	.603	4	.598		20	.704
21	.599	.598					5	.602	5	.599		21	.700
22	.601	.598		PRISES LAT. DROITES			6	.603	6	.599		22	.694
23	.602	.597					7	.603	7	.599		23	.685
24	.601	.599		74	.599	.600	8	.605	8	.598		24	.586
25	.602	.600		75	.598	.599	9	.604	9	.598		25	.585
26	.601	.599		76	.598	.596	10	.602	10	.598		26	.625
27	.604	.599		77	.597	.596	11	.601	11	.598		27	.671
28	.605	.601		78	.597	.597			12	.598		28	.675
29	.608	.601		79	.598	.594	HUB. GAUCHE		13	.598		29	.658
30	.606	.600		80	.603	.596			14	.598		30	.643
31	.609	.598		81	.605	.597	1	.604	15	.598		31	.643
32	.607	.601		82	.603	.599	2	.603	16	.598		32	.822
33	.609	.601		83	.608	.600	3	.603	17	.598		33	.803
34	.607	.599		84	.613	.600	4	.600	18	.598		34	.765
35	.608	.600		85	.615	.601	5	.600	19	.598		35	.740
36	.607	.600		86	.613	.601	6	.602	20	.598		36	.723
37	.609	.599		87	.612	.601	7	.604	21	.598		37	.720
38	.609	.600		88	.612	.600	8	.605	22	.598		38	.715
39	.611	.600		89	.615	.600	9	.605	23	.598		39	.705
40	.610	.599		90	.609	.600	10	.604	24	.598		40	.700
41	.609	.599		91	.605	.597	11	.603	25	.598		41	.696
42	.608	.598		92	.603	.598	12	.603	26	.598		42	.690
43	.606	.597		93	.599	.597	13	.603	27	.598		43	.683
44	.603	.597		94	.604	.598	14	.602	28	.598		44	.675
45	.602	.596		95	.602	.587	15	.601	29	.599		45	.665
46	.602	.597		96	.595	.584	16	.600	30	.599		46	.659
47	.603	.597					17	.600	31	.598		47	.676
48	.603	.599					18	.600	32	.598		48	.649
49	.603	.599					19	.600	33	.598		49	.649
50	.603	.599					20	.600	34	.598		50	.622
51	.605	.600					21	.601	35	.598			
52	.604	.599		PRISES COL			22	.601	36	.598			
53	.605	.600					23	.600	37	.598			
54	.605	.600			.660	1.054	24	.602	38	.598			
55	.604	.597			.691	.916	25	.603	39	.598			
56	.601	.593			.797	.796	26	.604	40	.598			
57	.599	.589			.864	.691	27	.606	41	.598			
58	.595	.582			1.021	.630	28	.606	42	.598			
							29	.606	43	.597			
							30	.604	44	.597			
							31	.603	45	.597			
							32	.601					

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++++++++++++++++++++++++++++++   FICHIER AD164      NO(IT)=  4
25/ 8/85 15H 5 AS07 M=.8   I=0    R 3-6    ADAPTE 2D     AD164
DE AD134 4'ITE.
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       MACH DE REFERENCE= .8067      UINF=  231.108 M/S
                          TIV=294.0 K      PIV=  1553 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.806	.802	PRISES DOUBLES			HUB. AMONT		33	.811	1	.763
2	.806	.808						34	.810	2	.789
3	.807	.806	59	.804	.804	1	.804	35	.809	3	.865
4	.805	.806	60	.805	.805	2	.802	36	.808	4	.955
5	.805	.808	61	.807	.802	3	.801	37	.808	5	.950
6	.807	.808				4	.802	38	.807	6	.899
7	.804	.804	PRISES LAT. GAUCHES			5	.800	39	.808	7	.851
8	.805	.802				6	.800	40	.810	8	.817
9	.805	.806	62	.805	.806	7	.800	41	.812	9	.406
10	.806	.800	63	.797	.809	8	.799	42	.810	10	1.414
11	.803	.802	64	.810	.805	9	.800	43	.807	11	1.376
12	.800	.804	65	.811	.807	10	.800	44	.807	12	1.285
13	.803	.803	66	.811	.802	11	.800	45	.805	13	1.030
14	.803	.805	67	.823	.805					14	1.025
15	.805	.804	68	.819	.808	HUB. AVAL		HUB. DROIT		15	1.018
16	.806	.800	69	.821	.813					16	1.028
17	.806	.800	70	.825	.805	1	.808	1	.805	17	1.018
18	.806	.803	71	.810	.802	2	.807	2	.805	18	1.010
19	.806	.804	72	.808	.805	3	.806	3	.805	19	1.023
20	.810	.807	73	.805	.810	4	.807	4	.805	20	1.012
21	.811	.807				5	.806	5	.804	21	1.003
22	.812	.805	PRISES LAT. DROITES			6	.805	6	.805	22	.980
23	.814	.802				7	.805	7	.805	23	.955
24	.814	.803	74	.806	.809	8	.806	8	.805	24	.753
25	.816	.805	75	.804	.804	9	.807	9	.804	25	.779
26	.818	.803	76	.803	.800	10	.805	10	.805	26	.859
27	.825	.801	77	.802	.802	11	.805	11	.805	27	.956
28	.827	.805	78	.802	.796			12	.805	28	.958
29	.835	.806	79	.804	.798	HUB. GAUCHE		13	.805	29	.903
30	.830	.807	80	.818	.804			14	.805	30	.863
31	.837	.804	81	.820	.803	1	.822	15	.805	31	.855
32	.831	.811	82	.819	.802	2	.821	16	.805	32	.416
33	.824	.813	83	.833	.803	3	.821	17	.805	33	1.512
34	.827	.810	84	.846	.806	4	.810	18	.805	34	1.433
35	.830	.812	85	.847	.810	5	.811	19	.805	35	1.324
36	.828	.813	86	.840	.813	6	.816	20	.805	36	1.051
37	.832	.810	87	.835	.813	7	.820	21	.805	37	1.043
38	.829	.809	88	.833	.810	8	.825	22	.805	38	1.034
39	.833	.807	89	.837	.804	9	.826	23	.805	39	1.005
40	.830	.805	90	.827	.804	10	.822	24	.805	40	.994
41	.829	.804	91	.817	.805	11	.820	25	.805	41	.986
42	.830	.804	92	.814	.803	12	.819	26	.805	42	.971
43	.824	.804	93	.803	.802	13	.818	27	.805	43	.970
44	.817	.804	94	.807	.803	14	.816	28	.805	44	.927
45	.817	.803	95	.806	.800	15	.810	29	.805	45	.906
46	.812	.804	96	.802	.797	16	.809	30	.805	46	.893
47	.813	.803				17	.809	31	.805	47	.931
48	.811	.804				18	.809	32	.805	48	.850
49	.810	.804				19	.810	33	.805	49	.875
50	.807	.805				20	.810	34	.804	50	.822
51	.808	.804				21	.812	35	.804		
52	.810	.803	PRISES COL			22	.813	36	.804		
53	.810	.805				23	.811	37	.804		
54	.809	.804		.852	1.213	24	.817	38	.804		
55	.809	.803		.871	1.213	25	.819	39	.804		
56	.806	.801		.937	.900	26	.822	40	.804		
57	.806	.802		.982	.825	27	.826	41	.804		
58	.806	.798		1.141	.783	28	.828	42	.804		
						29	.822	43	.804		
						30	.815	44	.804		
						31	.811	45	.804		
						32	.813				

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*****************************   FICHIER AD165      N0(IT)=  1
26/ 8/85 15H35 A507 M=.8  I=0   R 3-6   NON ADAPTE    AD165
DE AD4 1'ITE. PAROIS RECTILIGNES SYMETRIQUES
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       MACH DE REFERENCE= .8046      UINF=  231.108 M/S
                    TIV=299.1 K       PIV=  1651 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.				AILE A507	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.803	.801	PRISES DOUBLES				HUB. AMONT		33	.832	1	.779
2	.805	.809							34	.831	2	.808
3	.804	.806		59	.805	.805	1	.803	35	.829	3	.888
4	.800	.805		60	.806	.807	2	.803	36	.822	4	.998
5	.800	.806		61	.816	.813	3	.802	37	.824	5	1.080
6	.805	.809					4	.803	38	.827	6	1.111
7	.805	.806	PRISES LAT. GAUCHES				5	.802	39	.828	7	1.063
8	.805	.802					6	.802	40	.831	8	.818
9	.805	.806		62	.803	.805	7	.803	41	.833	9	.432
10	.808	.802		63	.798	.811	8	.803	42	.830	10	1.406
11	.803	.805		64	.810	.810	9	.802	43	.827	11	1.397
12	.799	.805		65	.819	.813	10	.802	44	.826	12	1.322
13	.801	.804		66	.828	.818	11	.803	45	.824	13	1.044
14	.802	.807		67	.846	.823					14	1.036
15	.803	.806		68	.852	.827	HUB. AVAL		HUB. DROIT		15	1.033
16	.803	.803		69	.858	.833					16	1.063
17	.805	.804		70	.856	.825	1	.820	1	.805	17	1.063
18	.809	.805		71	.826	.816	2	.818	2	.805	18	1.054
19	.810	.806		72	.821	.820	3	.818	3	.804	19	1.046
20	.815	.810		73	.805	.822	4	.820	4	.804	20	1.087
21	.810	.812					5	.819	5	.805	21	1.082
22	.824	.814	PRISES LAT. DROITES				6	.818	6	.805	22	1.020
23	.829	.814					7	.816	7	.804	23	.967
24	.830	.819		74	.803	.809	8	.816	8	.804	24	.778
25	.833	.822		75	.806	.807	9	.819	9	.804	25	.735
26	.835	.821		76	.805	.803	10	.817	10	.804	26	.677
27	.845	.819		77	.802	.803	11	.818	11	.805	27	.670
28	.849	.823		78	.802	.801			12	.805	28	.985
29	.861	.825		79	.808	.800	HUB. GAUCHE		13	.805	29	.934
30	.856	.825		80	.826	.810			14	.805	30	.874
31	.868	.822		81	.836	.815	1	.852	15	.805	31	.800
32	.864	.830		82	.835	.819	2	.849	16	.805	32	.442
33	.872	.832		83	.853	.820	3	.847	17	.805	33	1.000
34	.866	.829		84	.874	.824	4	.824	18	.804	34	1.471
35	.871	.830		85	.881	.830	5	.829	19	.804	35	1.374
36	.868	.830		86	.879	.832	6	.837	20	.805	36	1.344
37	.870	.828		87	.877	.833	7	.845	21	.805	37	1.305
38	.867	.828		88	.873	.829	8	.850	22	.805	38	1.211
39	.869	.825		89	.871	.824	9	.854	23	.805	39	1.010
40	.862	.823		90	.854	.824	10	.845	24	.805	40	.938
41	.858	.822		91	.838	.825	11	.844	25	.805	41	.887
42	.858	.822		92	.830	.817	12	.843	26	.804	42	.903
43	.848	.823		93	.816	.815	13	.841	27	.804	43	.896
44	.838	.824		94	.821	.813	14	.838	28	.804	44	.885
45	.836	.821		95	.816	.803	15	.822	29	.804	45	.930
46	.830	.821		96	.803	.798	16	.821	30	.804	46	.911
47	.829	.816					17	.822	31	.804	47	.855
48	.825	.817					18	.824	32	.804	48	.862
49	.823	.816					19	.825	33	.805	49	.888
50	.819	.818					20	.828	34	.805	50	.842
51	.821	.819					21	.831	35	.805		
52	.818	.813	PRISES COL				22	.834	36	.805		
53	.820	.816					23	.838	37	.805		
54	.820	.816			.864	1.218	24	.839	38	.805		
55	.819	.812			.867	1.073	25	.842	39	.805		
56	.814	.808			.944	.889	26	.845	40	.805		
57	.808	.805			.987	.819	27	.850	41	.805		
58	.800	.792			1.145	.779	28	.852	42	.805		
							29	.843	43	.805		
							30	.834	44	.805		
							31	.828	45	.805		
							32	.833				

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****************************   FICHIER AD166      NO(IT)=  1
26/ 3/85 15H45 AS07 M=.8  I=0   R 3-6   ADAPTE 3D   AD166
DE AD9118 1'ITE.
-------------------------------------------------------------------------------
       MACH DE REFERENCE= .8039      UINF=  231.108 M/S
                  TIV=298.8 K         PIV=  1649 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.806	.803	PRISES DOUBLES			HUB. AMONT		33	.806	1	.758
2	.807	.811						34	.805	2	.786
3	.805	.807	59	.805	.805	1	.799	35	.805	3	.862
4	.800	.804	60	.806	.805	2	.798	36	.804	4	.913
5	.799	.805	61	.803	.801	3	.798	37	.803	5	.953
6	.804	.808				4	.800	38	.803	6	.893
7	.805	.806	PRISES LAT. GAUCHES			5	.798	39	.803	7	.849
8	.806	.803				6	.798	40	.806	8	.807
9	.806	.806	62	.802	.804	7	.797	41	.808	9	.425
10	.807	.800	63	.797	.808	8	.795	42	.807	10	1.378
11	.802	.801	64	.805	.806	9	.798	43	.803	11	1.301
12	.796	.800	65	.803	.800	10	.799	44	.802	12	1.097
13	.798	.800	66	.804	.798	11	.800	45	.801	13	1.030
14	.798	.803	67	.813	.803					14	1.015
15	.799	.804	68	.812	.803	HUB. AVAL		HUB. DROIT		15	1.001
16	.799	.801	69	.814	.807					16	1.006
17	.801	.802	70	.816	.806	1	.807	1	.804	17	1.003
18	.805	.802	71	.806	.797	2	.806	2	.804	18	.997
19	.804	.800	72	.808	.807	3	.805	3	.804	19	1.003
20	.804	.801	73	.806	.810	4	.806	4	.804	20	.998
21	.803	.801				5	.805	5	.804	21	.991
22	.805	.799	PRISES LAT. DROITES			6	.805	6	.804	22	.971
23	.807	.798				7	.805	7	.804	23	.948
24	.808	.799	74	.803	.809	8	.806	8	.804	24	.751
25	.808	.802	75	.805	.806	9	.806	9	.804	25	.777
26	.809	.800	76	.804	.801	10	.803	10	.804	26	.857
27	.815	.799	77	.798	.799	11	.804	11	.804	27	.857
28	.817	.804	78	.797	.798			12	.804	28	.959
29	.823	.805	79	.802	.796	HUB. GAUCHE		13	.804	29	.909
30	.819	.804	80	.810	.798			14	.804	30	.877
31	.826	.801	81	.813	.799	1	.814	15	.804	31	.878
32	.821	.806	82	.811	.800	2	.813	16	.804	32	.416
33	.825	.807	83	.822	.801	3	.812	17	.804	33	1.403
34	.820	.803	84	.834	.805	4	.803	18	.804	34	1.336
35	.823	.804	85	.836	.808	5	.804	19	.804	35	1.073
36	.821	.805	86	.832	.808	6	.808	20	.804	36	1.056
37	.823	.803	87	.829	.807	7	.812	21	.804	37	1.043
38	.821	.805	88	.827	.804	8	.816	22	.804	38	1.026
39	.825	.805	89	.828	.803	9	.818	23	.804	39	1.000
40	.820	.805	90	.819	.805	10	.815	24	.804	40	.991
41	.819	.805	91	.811	.804	11	.812	25	.804	41	.982
42	.820	.805	92	.809	.797	12	.811	26	.804	42	.968
43	.817	.805	93	.801	.800	13	.811	27	.804	43	.956
44	.811	.804	94	.808	.805	14	.810	28	.804	44	.924
45	.811	.801	95	.804	.796	15	.804	29	.804	45	.904
46	.807	.801	96	.803	.794	16	.803	30	.804	46	.892
47	.809	.797				17	.803	31	.804	47	.925
48	.807	.799				18	.804	32	.804	48	.947
49	.808	.802				19	.804	33	.804	49	.970
50	.806	.805				20	.804	34	.804	50	.818
51	.808	.807				21	.805	35	.804		
52	.807	.802	PRISES COL			22	.807	36	.804		
53	.807	.803				23	.805	37	.804		
54	.808	.804		.848	1.210	24	.811	38	.804		
55	.810	.801		.866	1.128	25	.813	39	.804		
56	.808	.798		.936	.894	26	.815	40	.803		
57	.808	.798		.981	.819	27	.820	41	.803		
58	.804	.798		1.141	.780	28	.822	42	.803		
						29	.817	43	.803		
						30	.810	44	.804		
						31	.807	45	.804		
						32	.807				

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**************************   FICHIER AD167      N0(IT)=  1
26/ 3/85 16H15 AS07 M=.6  I=+2(1.5+ROT.30') R 3-6  NON ADAPTE  AD167
DE AD445 1'ITE. PAROIS RECTILIGNES + 30'
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       MACH DE REFERENCE= .5991      UINF=  231.108 M/S
                  TIV=298.7 K        PIV=  1391 MB
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MACH PAROIS HAUTE ET BASSE						MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS	I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.607	.593	PRISES DOUBLES			HUB. AMONT		33	.606	1	.572
2	.606	.596						34	.604	2	.582
3	.603	.597	59	.598	.599	1	.600	35	.603	3	.615
4	.599	.599	60	.600	.600	2	.599	36	.603	4	.652
5	.597	.601	61	.600	.603	3	.599	37	.602	5	.650
6	.599	.602				4	.600	38	.602	6	.619
7	.598	.599	PRISES LAT. GAUCHES			5	.599	39	.601	7	.574
8	.600	.598				6	.599	40	.601	8	.523
9	.599	.599	62	.599	.598	7	.599	41	.602	9	.378
10	.600	.597	63	.600	.601	8	.599	42	.603	10	1.102
11	.598	.598	64	.604	.602	9	.599	43	.601	11	1.022
12	.596	.598	65	.606	.600	10	.598	44	.600	12	.872
13	.598	.597	66	.614	.599	11	.599	45	.599	13	.830
14	.598	.599	67	.619	.604					14	.802
15	.599	.599	68	.620	.602	HUB. AVAL		HUB. DROIT		15	.782
16	.600	.598	69	.620	.601					16	.776
17	.602	.599	70	.619	.600	1	.603	1	.599	17	.766
18	.605	.600	71	.610	.601	2	.603	2	.599	18	.755
19	.605	.600	72	.604	.605	3	.604	3	.599	19	.749
20	.606	.601	73	.580	.606	4	.605	4	.600	20	.739
21	.607	.600				5	.605	5	.600	21	.727
22	.612	.599	PRISES LAT. DROITES			6	.604	6	.599	22	.713
23	.614	.596				7	.604	7	.599	23	.701
24	.615	.597	74	.601	.600	8	.605	8	.599	24	.682
25	.619	.596	75	.598	.598	9	.605	9	.599	25	.589
26	.619	.597	76	.599	.597	10	.604	10	.599	26	.629
27	.623	.596	77	.598	.596	11	.605	11	.599	27	.664
28	.623	.600	78	.600	.597			12	.600	28	.651
29	.627	.600	79	.604	.595	HUB. GAUCHE		13	.600	29	.617
30	.625	.601	80	.612	.596			14	.600	30	.573
31	.628	.596	81	.619	.595	1	.619	15	.599	31	.535
32	.625	.600	82	.623	.593	2	.617	16	.599	32	.355
33	.628	.599	83	.628	.595	3	.616	17	.599	33	1.106
34	.625	.598	84	.634	.598	4	.610	18	.599	34	1.034
35	.626	.596	85	.635	.599	5	.611	19	.599	35	.903
36	.625	.597	86	.633	.598	6	.613	20	.599	36	.823
37	.627	.597	87	.630	.598	7	.616	21	.599	37	.793
38	.625	.597	88	.629	.596	8	.618	22	.599	38	.776
39	.626	.597	89	.630	.596	9	.618	23	.599	39	.755
40	.624	.597	90	.623	.598	10	.616	24	.599	40	.742
41	.623	.598	91	.616	.600	11	.615	25	.599	41	.722
42	.623	.598	92	.612	.602	12	.614	26	.598	42	.720
43	.619	.598	93	.604	.602	13	.613	27	.600	43	.711
44	.616	.600	94	.603	.603	14	.612	28	.599	44	.689
45	.616	.600	95	.596	.607	15	.606	29	.599	45	.674
46	.613	.602	96	.579	.605	16	.605	30	.600	46	.666
47	.613	.602				17	.606	31	.600	47	.686
48	.611	.604				18	.606	32	.600	48	.649
49	.608	.603				19	.606	33	.600	49	.653
50	.604	.603				20	.607	34	.600	50	.624
51	.603	.604				21	.608	35	.600		
52	.601	.603	PRISES COL			22	.609	36	.599		
53	.599	.604				23	.607	37	.599		
54	.597	.605		.669	1.069	24	.610	38	.599		
55	.595	.604		.690	.892	25	.612	39	.599		
56	.590	.604		.803	.791	26	.612	40	.599		
57	.584	.606		.869	.692	27	.615	41	.599		
58	.575	.608		1.030	.631	28	.616	42	.599		
						29	.614	43	.599		
						30	.612	44	.599		
						31	.610	45	.599		
						32	.608				

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*****************************   FICHIER AD168      NO(IT)=  1
26/ 8/85 16H25 AS07 M=.6  I=+2(1.5+ROT.30') R 3-6  ADAPTE 3D  AD168
DE AD9122 1'ITE.
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       MACH DE REFERENCE= .5994      UINF=  231.108 M/S
                        TIV=298.4 K      PIV=  1391 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.					AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH		I	MACH
1	.607	.592	PRISES DOUBLES				HUB. AMONT		33	.602		1	.568
2	.606	.596							34	.601		2	.578
3	.603	.597		59	.598	.599	1	.599	35	.600		3	.617
4	.599	.598		60	.600	.600	2	.598	36	.602		4	.658
5	.597	.599		61	.604	.599	3	.598	37	.601		5	.654
6	.599	.601					4	.599	38	.600		6	.825
7	.598	.600	PRISES LAT. GAUCHES				5	.599	39	.600		7	.884
8	.599	.599					6	.598	40	.600		8	.937
9	.600	.601		62	.600	.597	7	.598	41	.601		9	.968
10	.601	.597		63	.602	.603	8	.598	42	.601		10	1.034
11	.599	.598		64	.603	.604	9	.598	43	.599		11	.929
12	.597	.598		65	.601	.600	10	.598	44	.599		12	.837
13	.598	.597		66	.599	.601	11	.599	45	.598		13	.804
14	.598	.599		67	.607	.600						14	.779
15	.599	.600		68	.606	.600	HUB. AVAL		HUB. DROIT			15	.761
16	.599	.599		69	.606	.601						16	.755
17	.601	.600		70	.611	.600	1	.603	1	.599		17	.747
18	.603	.601		71	.604	.599	2	.604	2	.599		18	.738
19	.602	.600		72	.605	.602	3	.604	3	.599		19	.733
20	.602	.600		73	.596	.605	4	.604	4	.600		20	.726
21	.602	.599					5	.604	5	.600		21	.716
22	.605	.599	PRISES LAT. DROITES				6	.604	6	.600		22	.704
23	.605	.597					7	.605	7	.599		23	.692
24	.603	.600		74	.601	.599	8	.605	8	.599		24	.675
25	.604	.600		75	.599	.599	9	.605	9	.599		25	.660
26	.604	.600		76	.600	.599	10	.603	10	.599		26	.625
27	.608	.598		77	.599	.597	11	.602	11	.599		27	.600
28	.610	.599		78	.599	.598			12	.600		28	.583
29	.614	.598		79	.602	.596	HUB. GAUCHE		13	.600		29	.571
30	.612	.598		80	.607	.597			14	.600		30	.568
31	.615	.594		81	.611	.597	1	.607	15	.600		31	.561
32	.612	.598		82	.608	.598	2	.607	16	.600		32	.553
33	.613	.597		83	.613	.597	3	.607	17	.600		33	1.052
34	.609	.597		84	.620	.596	4	.603	18	.599		34	.957
35	.611	.597		85	.620	.597	5	.603	19	.599		35	.839
36	.609	.598		86	.617	.598	6	.605	20	.599		36	.788
37	.613	.597		87	.615	.599	7	.607	21	.599		37	.771
38	.613	.598		88	.614	.597	8	.609	22	.599		38	.758
39	.616	.598		89	.620	.597	9	.610	23	.599		39	.748
40	.614	.597		90	.615	.599	10	.608	24	.599		40	.737
41	.613	.597		91	.607	.598	11	.607	25	.599		41	.721
42	.613	.598		92	.606	.599	12	.607	26	.599		42	.712
43	.609	.597		93	.602	.600	13	.606	27	.599		43	.706
44	.606	.598		94	.606	.601	14	.605	28	.599		44	.698
45	.606	.597		95	.604	.599	15	.603	29	.599		45	.672
46	.604	.598		96	.594	.597	16	.602	30	.599		46	.664
47	.606	.598					17	.602	31	.599		47	.653
48	.606	.601					18	.602	32	.600		48	.646
49	.606	.601					19	.602	33	.600		49	.550
50	.604	.601					20	.602	34	.600		50	.621
51	.605	.601					21	.602	35	.600			
52	.605	.599	PRISES COL				22	.603	36	.600			
53	.606	.601					23	.602	37	.600			
54	.605	.602			.671	1.072	24	.605	38	.600			
55	.604	.601			.591	.901	25	.606	39	.600			
56	.601	.600			.806	.793	26	.607	40	.600			
57	.598	.599			.872	.691	27	.609	41	.600			
58	.591	.596			1.002	.633	28	.610	42	.600			
							29	.608	43	.600			
							30	.607	44	.600			
							31	.605	45	.600			
							32	.603					

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********************************   FICHIER AD169      NO(IT)=  4
26/ 8/85 16H50 AS07 M=.6  I=+2  R 3-6    ADAPTE 2D   AD169
DE AD145 4'ITE.
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       MACH DE REFERENCE= .5991      UINF=  231.108 M/S
                    TIV=294.2 K       PIV=  1391 MB
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MACH PAROIS HAUTE ET BASSE							MACH PAROIS LATER.				AILE AS07	
I	HAUT	BAS		I	HAUT	BAS	I	MACH	I	MACH	I	MACH
1	.601	.596	* PRISES DOUBLES				HUB. AMONT		33	.599	1	.586
2	.601	.600	*						34	.598	2	.574
3	.600	.599	*	59	.600	.598	1	.600	35	.597	3	.613
4	.597	.599	*	60	.602	.599	2	.599	36	.598	4	.654
5	.597	.600	*	61	.600	.597	3	.599	37	.597	5	.645
6	.600	.601	*				4	.599	38	.597	6	.604
7	.600	.598	* PRISES LAT. GAUCHES				5	.598	39	.596	7	.582
8	.601	.597	*				6	.598	40	.596	8	.591
9	.602	.599	*	62	.598	.599	7	.598	41	.597	9	.579
10	.602	.596	*	63	.602	.601	8	.597	42	.597	10	1.164
11	.599	.598	*	64	.603	.599	9	.598	43	.596	11	.874
12	.596	.598	*	65	.602	.596	10	.597	44	.595	12	.859
13	.598	.597	*	66	.602	.595	11	.597	45	.595	13	.818
14	.599	.597	*	67	.606	.597					14	.781
15	.600	.597	*	68	.607	.596	HUB. AVAL		HUB. DROIT		15	.771
16	.600	.596	*	69	.607	.597					16	.752
17	.601	.596	*	70	.609	.595	1	.601	1	.600	17	.733
18	.603	.598	*	71	.604	.596	2	.602	2	.600	18	.744
19	.603	.597	*	72	.602	.598	3	.601	3	.600	19	.737
20	.604	.596	*	73	.592	.600	4	.602	4	.600	20	.727
21	.604	.595	*				5	.601	5	.600	21	.716
22	.606	.596	* PRISES LAT. DROITES				6	.600	6	.600	22	.702
23	.608	.595	*				7	.601	7	.600	23	.690
24	.606	.595	*	74	.599	.601	8	.602	8	.600	24	.569
25	.608	.594	*	75	.600	.598	9	.601	9	.600	25	.582
26	.607	.594	*	76	.601	.597	10	.599	10	.600	26	.633
27	.611	.593	*	77	.598	.596	11	.599	11	.600	27	.600
28	.611	.596	*	78	.599	.594			12	.600	28	.644
29	.615	.595	*	79	.602	.593	HUB. GAUCHE		13	.600	29	.600
30	.613	.596	*	80	.609	.592			14	.600	30	.580
31	.616	.593	*	81	.613	.594	1	.608	15	.600	31	.528
32	.613	.596	*	82	.611	.591	2	.607	16	.600	32	.352
33	.615	.595	*	83	.615	.591	3	.607	17	.599	33	1.088
34	.612	.594	*	84	.621	.592	4	.602	18	.599	34	1.009
35	.613	.594	*	85	.621	.593	5	.603	19	.599	35	.885
36	.613	.594	*	86	.619	.593	6	.605	20	.599	36	.813
37	.615	.593	*	87	.617	.593	7	.607	21	.599	37	.783
38	.613	.593	*	88	.615	.592	8	.609	22	.599	38	.761
39	.616	.593	*	89	.619	.592	9	.610	23	.599	39	.741
40	.614	.594	*	90	.614	.594	10	.608	24	.599	40	.733
41	.613	.594	*	91	.607	.595	11	.607	25	.599	41	.725
42	.613	.595	*	92	.605	.596	12	.606	26	.599	42	.714
43	.611	.595	*	93	.600	.596	13	.606	27	.599	43	.698
44	.608	.595	*	94	.602	.595	14	.604	28	.599	44	.683
45	.607	.595	*	95	.599	.590	15	.601	29	.599	45	.668
46	.604	.596	*	96	.591	.589	16	.600	30	.599	46	.652
47	.606	.596	*				17	.600	31	.599	47	.634
48	.605	.597	*				18	.600	32	.599	48	.615
49	.605	.597	*				19	.600	33	.599	49	.598
50	.602	.597	*				20	.600	34	.599	50	.613
51	.603	.598	*				21	.601	35	.599		
52	.601	.598	*	PRISES COL			22	.601	36	.599		
53	.601	.598	*				23	.600	37	.599		
54	.600	.597	*		.661	1.057	24	.603	38	.599		
55	.600	.595	*		.894	.905	25	.604	39	.599		
56	.597	.593	*		.799	.794	26	.606	40	.599		
57	.594	.591	*		.865	.691	27	.607	41	.599		
58	.589	.588	*		1.023	.632	28	.608	42	.599		
							29	.607	43	.599		
							30	.605	44	.599		
							31	.603	45	.599		
							32	.600				

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NASA TECHNICAL MEMORANDUM

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TESTS WITH THREE-DIMENSIONAL ~~ADJUSTMENTS~~ ADAPTATIONS IN THE RECTANGULAR WORKING SECTION OF THE FRENCH T2 WIND TUNNEL, WITH AN AS 07-~~TYPE~~ TYPE SWEPT-~~BACK~~ WING HALF MODEL INSTALLED

A. Blanchard, M. J. Payry, J. F. Breil

Translation of "Essais 'd'adaptation tridimensionnelle' de la veine rectangulaire de la soufflerie T2, en presence d'une maquette d'aile en fleche du type AS 07," Rapport Technique OA 34/3075 (DERAT 12/5015 DN), O.N.E.R.A., Centre d'Etudes et de Recherches de Toulouse, November 1985, pp. 1-24 (plus figures).

The results obtained on the AS 07 wing and the working section walls for three types of configurations are reported. The first, called non-adapted, corresponds to the divergent upper and lower rectilinear walls which compensate for limit layer thickening. It can serve as a basis for complete flow calculations. The second configuration corresponds to wall shapes determined from calculations which tend to minimize interference at the level of the fuselage. Finally, the third configuration, called two-dimensional adaptation, uses the standard method for T2 profile tests. This case was tested to determine the influence of wall shape and error magnitude. These results are not sufficient to validate the three-dimensional adaptation; they must be coordinated with calculations or with unlimited atmosphere tests. Author

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Corrected Copy
Stephen Wolf
10/1/86
Dr. Stephen Wolf, Experimental Techniques Branch, Mail Stop 287, NASA Langley Research Center, Hampton, VA 23665-5225, USA.

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16. Abstract This report presents the results obtained on the AS 07 ~~wing~~ half-model and the working section walls for three types of configurations. The first, called "non-adapted," ~~[redacted]~~ corresponds to ~~the~~ divergent upper and lower ~~rectilinear~~ flexible walls which compensate for ~~limit~~ boundary layer ~~thickening~~ growth. It can serve as a basis for ~~complete~~ infinite flow calculations. The second configuration corresponds to wall shapes determined from calculations which tend to minimize interference at the level of the fuselage. Finally, the third configuration, called "two-dimensional adaptation," uses the standard method for ~~T2 profile~~ 2D model tests. This case was tested to determine the influence of different wall shapes and error magnitudes. These results are not sufficient to validate the three-dimensional adaptation; they must be coordinated with calculations or with ~~unlimited atmosphere~~ unconfined flow tests.

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adaptation

NOTATION

Xp, Yp, Zp — Cartesian coordinates in the reference working section (porthole axis)

X, Y, Z — Cartesian coordinates in the wing reference (leading edge to socket)

C — Profile chord of the wing section considered

α — Angle of the model (fuselage axis)

Mo — ~~Infinite~~ Test Mach number, ~~upstream of the flow~~

M — Local Mach (wing or wall)

$Kp = \dfrac{p - po}{\frac{1}{2}\rho_o Vo^2}$ — Pressure coefficient

Cz — Local or complete-wing lift coefficient

$$\begin{cases} Cz_{local} = \displaystyle\int_{profil} Kp \cdot d\left(\frac{x}{C_{local}}\right) \\ Cz = \dfrac{F_z}{\frac{1}{2}\rho_o V_o^2 \cdot S_{aile}} \end{cases}$$

TESTS WITH THREE-DIMENSIONAL ADAPTATIONS IN THE RECTANGULAR WORKING SECTION OF THE FRENCH T2 WIND TUNNEL, WITH AN AS 07 SWEPT WING MODEL INSTALLED.

A. Blanchard, M. J. Payry, J. F. Breil

1 - INTRODUCTION

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This test series follows a study done in the T2 wind tunnel with the goal of defining a shape for the adaptable walls which would minimize their influence on three-dimensional models placed in the center of the test section or fastened on the sidewall.

The present configuration of the working section does not allow shapes to be set which are identical to the streamlines which exist around a three-dimensional model in unconfined atmosphere (two completely fixed and parallel lateral walls, two flexible and bendable upper and lower walls). The planned solution thus consists of using the two bendable walls to minimize the influence of the walls on the model.

The method implemented uses solutions developed by "E. Wedemeyer and L. Lamarche" [5]. A first series of tests was done in cooperation with the Technical University of Berlin on various existing models [6]:

- a C5 revolving body 166 mm long, 0.3% blockage;
- a civil F4 airplane model with 120-mm wingspan and three-component balance;
- a duck-type military airplane model with the same balance.

Another series of tests was then done on a bigger model [7]:

- a C5 body 400 mm long, 1.8% blockage.

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*Numbers in the margin indicate pagination in the foreign text.

The results and calculations were compared.

The calculation method was optimized for ~~revolving~~ bodies of revolution placed in the center of the test section; an extrapolation was tried which placed a half-wing at the wall. In this case, calculations ~~is~~ are done as if the section were twice its actual width, using the Mach distribution at the wall measured near the plane of symmetry.

The results obtained on the "16/1000-scale" AS 07 are discussed in this report. They can be divided into two groups: control tests and systematic tests.

Included in the first group is control of ~~wing angling~~ flow angle by rotating the walls. The ~~path~~ lower of the jacks would not permit the displacements ~~required by~~ calculation for ~~angling the~~ model ~~to~~ angle of attack of +2°; we thus used this "artificial" method after ~~having~~ verifying its validity.

The three-dimensional adaptation method supplies the optimum shape of the walls from the first calculation, whatever the initial position of the walls; this was verified in several test configurations. /8 Finally, an adaptation called "two-dimensional" was tested; it uses the normal method for ~~T2~~ 2D ~~profile~~ model tests. This case, without theoretical justification, was tried to see the influence of the ~~shape of the~~ wall shapes and the ~~size of errors which can be made~~ magnitude of the corresponding interferences.

The second part of this study corresponds to systematic tests: four configurations were chosen which gave different lift coefficients, without making highly supersonic zones appear on the profiles. For each configuration, three wall positions were tested:

- The first, called "unadapted," corresponds to the upper and lower divergent ~~rectilinear~~ walls compensating for

boundary boundary

thickening of the ~~limit~~ layers; it served as our basis for beginning three-dimensional adaptation calculations. These particularly simple limit conditions can also be used for complete calculation of the flow in the working section.

- The second wall shape comes from the three-dimensional adaptation calculation; the flexible ~~sheets~~ walls are positioned before the ~~gust~~ tunnel is run.

- Finally, the last case corresponds to "two-dimensional adaptation"; the iterative process converges ~~on~~ in a single ~~gust~~. tunnel run.

For each type of test, three ~~gusts~~ tunnel runs are necessary to obtain readings from the six rows of pressure recorders spread along the AS 07 wing.

The experimental results gathered during this series are not sufficient to validate the three-dimensional adaptation method used. Additional calculations must be made to estimate residual corrections. In these tests, ~~a negligible~~ the small influence of the walls is observed for low lift values or low Mach numbers; inversely, for 2 degrees of incidence or for Mach 0.8, the differences become significant and can in part be interpreted as variations in aerodynamic incidence.

2 - ADAPTATION PRINCIPLE

The purpose of the adaptable walls is to create an ~~unlimited~~ unconfined flow around a model, in a working section with finite dimensions; this can be done by controlling the wall conditions, either by their shape in the case of solid walls or by flows of mass through porous walls. The first solution has been chosen at T2, where flexible sheets moved by jacks form the upper and lower ~~plates~~ walls of the working section [3].

In the case of a three-dimensional body, it is necessary to bend the walls located around the model to arrive at a shape corresponding to a streamline near the layer of current existing around the model in unlimited atmosphere. This solution is not at present possible at T2, but on the other hand it is possible to use the two flexible walls to minimize residual corrections due to the influence of the walls on the object. /9

2.1 Two-dimensional adaptation

The details of the process will be found in [2] and [4]; it uses a coupling between the real flow in the working section (internal field) and a calculated virtual flow outside the wind tunnel (external field). Coupling occurs on a control surface near the walls through speed vector components. Adaptation is achieved by an iterative process acting on the shape of the walls: the components of the speed on the control surface become available at each iteration; they are extrapolated from the pressure measurements at the wall. The velocities needed on the control surface to achieve an unlimited external flow are calculated by the Green function following an inverse method. A method of optimized relaxation between the internal and external flows for the vertical velocity component, followed by an integration along each flexible wall, supplies the new shape of the wall. The real shape needed is obtained by adding the thickness displacement of the four wall limit layers.

2.2 Three-dimensional adaptation

For three-dimensional adaptation, the process is different [5]: it uses schematization of the model through a distribution of sources and vortices in a narrow horseshoe, placed on the section axis. This schematization gives a good representation of axisymmetrical bodies mounted in the middle of the working section.

The originality of the method lies in then doing a linear transformation, which permits passing directly from distribution of velocities at the walls to the adapted form without needing to determine the intensity of singularities. The optimized shape of the walls is thus theoretically obtained from the first calculation; this shape, which is not exactly "adapted," minimizes residual corrections on the model caused by the influence of the walls.

Using this method for a half-wing at the wall is not quite correct ~~abusive~~, because the ~~base schematization~~ basic representation does not ~~represent~~ recognize a wingspan; it has nonetheless been tried here by replacing ~~the~~ one lateral ~~door~~ sidewall by a plane of symmetry leading to a ~~fictional~~ fictitious double section width, and taking the Mach distribution of the fictitious flexible walls near the plane of symmetry as reference.

3 - EXPERIMENTAL EQUIPMENT

The T2 transonic wind tunnel ~~is~~ can be pressurized and can function at low temperatures; only minimum-pressure and ambient-temperature tests were ~~done~~ used during this series.

3.1 Working section equipment /10

The working section has an almost square section of 0.39 x 0.37 mm^2 at the entrance. Flexible sheets of Invar make up the upper and lower walls, equipped with three rows of pressure recorders whose coordinates are given in figures 7 and 8. The ~~sheet~~ wall-positioning mechanism is described in [2], [3], and [4].

The left lateral ~~door~~ sidewall has three portholes with pressure recorders placed along horizontal and vertical lines whose coordinates are shown in Figures 7 and 9.

The pressure recorders are linked to ~~the~~ Scanivalves, each of ~~whose head~~ which can observe 48 positions in 5 seconds.

The position of the wing in the working section is given in figure 6.

The Mach number of the flow is set by a ~~second neck~~ secondary throat controlled by the computer which controls the ~~gust~~. tunnel runs.

No other equipment or wind tunnel measurement method ~~was~~ were used.

3.2 Mounting the wing

The AS 07 wing, half-model with a scale of "16/1000" is shown by the photographs in figure 5. The method of mounting the wing on the wall is shown (figure 6), the plane of the wing and its specifications are given (figures 10 and 11), and the shape of the profiles ~~which compose it~~ at different spanwise locations are shown, and the positions of the pressure recorders are indicated (figures 12 and 13).

There are six rows, each with 16 recorders on the inner and outer sections and one on the leading edge; they are placed across the wingspan so as to form lines with constant chord percentages. These recorders communicate with tubes placed in grooves along the wingspan; each tube communicates with three recorders (either on the external wing or on the internal wing). When one of the three rows of recorders is used to measure pressure, the other two are covered with thin (0.05-mm) adhesive strips. It is thus possible to simultaneously measure pressure on two sections of the wing (one internal and one external); measurement of velocities over the entire wing thus requires three different ~~gusts~~. tunnel runs.

The wing is mounted on a half-fuselage linked to a porthole, ~~whose rotation ensures the angling of the wing~~ which rotates so as to change the angle of attack of

fuselage assembly; the angular reference is the ~~rectilinear~~ straight part on the back of the fuselage [1].

3.3 Acquisition and ~~examination~~ graphics programs

The T2 wind tunnel is linked to a team of two computers, one concerned with creating and ~~regulating~~ controlling the ~~gust~~ tunnel run and the other with obtaining data and storing measurements to disk at the end of ~~the~~ each ~~gust~~ tunnel run.

These tests are ~~pursuant~~ similar to the series done on the /11 C5 body and use its principal elements.

Disk cartridge — LU 26, Program
LU 34, Test files, calculation files

Acquisition program

(TEACQ)
(RAFAL) → PARC 5 (lance ACQC5) — Fixed walls: No adaptation during ~~gust~~ tunnel run

or

PARC S (uses PROJ and ADAP.) — Two-dimensional adaptation

Initialization of programs { with (TR,) RINC 5 (For PARC 5)
or (TR,) RINC S (For PARC S)

Test file

AD --- test number — from AD 100 to AD 173

Wall positioning file

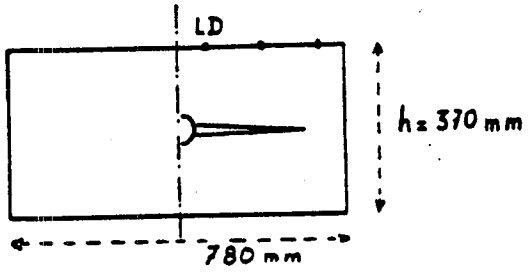
- any test file — AD---
- or calculation file — AD 9 ---
- or special file
  - AD 4: Divergent ~~rectilinear~~ walls ~~of~~ with symmetrical ~~limit~~ boundary layers.
  - AD 444: AD 4 + 10' axis rotation upward
  - AD 445: AD 4 + 30' axis rotation upward

Three-dimensional adaptation calculation

Calculation from a test file AD ---

VKJ 43 Calculation of wall shapes without rotation

VKI M Calculation of wall shapes with rotation



- section length 780 mm
- ratio c = h/b = 2.1081
- reference recorders: right lateral RL
- weighting coefficients file VKJ - R (cartridge LU 43)

⟶ Filing to disk

File for new calculated wall shapes

AD 9 --- beginning test number for the calculation

Programs for examination of AD--- files

LTCS:

- graphs local profile Mach numbers
- graphs Kp
- lists AD file
- calculates Cz

LTC 51:

- graphs wall Mach numbers
- graphs wall shapes

  starts LTC 52 (does an RP, LTC 52)

LTC VK:

- graphs only wall shapes calculated by VKI 43 or VKIM (from AD 9---).

4 - SUMMARY OF TESTS PERFORMED

A previous study was done on the AS 07 wing [1]. We verified in one case that the same results would occur, although the working section was modified when the T2 wind tunnel was ~~adapted~~ modified for cryogenics.

The first control tests were done by measuring rows 2 and 5 of pressure recorders for the Mach numbers and incidences indicated below:

M_∞ / α	0,6	0,7	0,8
+2°	X	X	X
0	X	X	X
-2°	X	X	

Four configurations were selected for systematic tests: /13

α \ M_o	0,6	0,7	0,8
+2°	X		
0°	X		X
-2°	X		

They correspond to a sampling of lift coefficients and ~~to an~~ infinite Mach ~~effect upstream~~, while limiting the supersonic zones which appear on the profiles.

Figure 1 shows the list of tests in chronological order, and figures 2, 3, and 4 classify them by configuration.

We first showed that rotation of the upper and lower walls was equivalent to ~~angling~~ the model at the same angle. This ~~artifice~~ was made necessary because the ~~path~~ of the jacks did not permit the displacements required by calculation of three-dimensional adaptation for a model incidence of +2°.

- Divergent ~~rectilinear~~ walls

α, deg.	α Display	Wall Slant	M_o 0,6	M_o 0,8
+2°	+2°	AD 4	AD 120	
	+1,5°	AD 445	AD 122	
0°	0°	AD 4	AD 107 - AD 109	AD 108 - AD 132
	-0,5°	AD 445	AD 137	AD 139

- Three-dimensional adapted walls

$\alpha_{aérod.} = 0°$

α CALCUL	Mo 0,6	Mo 0,8
0° VKI 43	117	AD 119
-0,5° VKI M	138	AD 141

The three-dimensional adaptation method theoretically supplies the optimal shape of the walls from the first calculation, whatever the initial position of the flexible walls. Tests were done in this respect for the following configurations:

α display	M_o 0,7	M_o 0,8
+1,5°		AD 127 (1) AD 128 (2) AD 129 (3)
0°	AD 115 (1) AD 116 (2)	AD 118 (1) AD 119 (2)
-0,5°		AD 140 (1) AD 141 (2)

The figure in parentheses after the file number indicates the order of the iteration; the wall-positioning file thus results from calculation of the preceding test. (Iteration (0) is the test done with straight walls.)

We also verified that the tests called "two-dimensional adaptation" converged rapidly, as is the case for the 2D model tests; it is sufficient to compare the wall positions of

performed / performed — tunnel run / tunnel runs

the 3rd and 4th iterations, ~~done~~ during the same ~~gust~~; the two positions are always close. In general, the beginning shape chosen is near the adapted shape, but we have tested this convergence in the two particular cases when the beginning shape was far from the adapted shape. The beginning file chosen was AD 4: ~~rectilinear~~ straight walls diverge ~~from limit layers and~~ symmetrically for boundary layers. ~~symmetrical~~.

/15

Configuration: Mo = 0.7 α = +1.5° File AD 130 (1)
Configuration: Mo = 0.8 α = 0° File AD 133 (1)
followed by File AD 134 (2)

Comparisons were made between the various wall positions; they are noted:

- "Non," for divergent ~~rectilinear~~ straight walls
- "2D," for two-dimensional adaptation done with the PARCS program
- "3d," for positioning of the walls in the shape calculated by the VKI 43 or VKI M program

It was decided to do systematic tests for the three cases of "adaptation," the non-adapted case serving as a basis for three-dimensional calculation (any wall shape will work); this case can also serve as a basis for complete flow calculations, because here the limit conditions are particularly simple. The two-dimensional adaptation, ~~a priori outside~~ beyond the subject of the study, was systematically tested to use as a comparison with the assumed optimum shape.

Finally, four configurations for three cases of adaptation, reproduced three times to have the velocity field on all of the wing, were tested; these 36 ~~gusts~~ tunnel runs make up the systematic tests listed in figure 26a.

5 - CONTROL TESTS

We will not present all the tests done, but only a selection of cases judged most interesting, since the goal of this series was not to evaluate the AS 07 wing.

5.1 Angling by wall rotation

Of the five configurations tested (paragraph 4), three are presented. The first corresponds to Mo = 0.6 and α = +2° for rectilinear walls (figure 14); this is the configuration which obliged us to use this artifice, as the three-dimensional case could not be tested.

Figure 15 shows the comparison of Mach numbers on the walls and on the wing, for an aerodynamic incidence equal to 0° and a Mach number equal to 0.8, in the case of rectilinear walls. Figure 16 presents the same configurations but for wall shapes coming respectively from calculations VKI 43 and VKI M.

The results of figures 14 and 15 show that the high Mach case is the most recordable, but the correspondence of the tests remains good. Figure 16 shows that the VKI M calculation makes perfect allowance for total rotation.

It is thus possible to display a model incidence different from that desired and to compensate by rotating the walls. /16

5.2 Convergence of iterations

5.2.1 Three-dimensional adaptation

Several calculations for optimization of wall shape were connected for one configuration. The last test is always recalculated, leading to a wall shape which by definition

will not be used, but which will in fact constitute an additional iteration.

Of the four tested cases, two are presented in figures 17 and 18; the first (Mo = 0.7 and = 0°) shows that the adapted shape is practically obtained from the first iteration; in the second case--much more difficult (Mo = 0.8 and α = +2°)--it is necessary to wait for the second calculation. This second case corresponds to ~~a freely~~ influenced by the supersonic regime of the wing which will not be studied systematically herein.

5.2.2 Two-dimensional adaptation

In all tests done, the 3rd iteration is always identical to the 4th and last iteration of the ~~gust~~ tunnel run, even when the upper and lower walls have been prepositioned in a shape very different from the "adapted" shape. This is the case shown in figure 19 corresponding to Mo = 0.8 and α = 0°.

To confirm the validity of this statement, a second test was done, positioning the flexible ~~sheets on the~~ walls to preceding shapes; the values obtained can thus be considered to correspond to the 4th, 5th, 6th, and 7th iterations of the test; they are all identical (figure 20), which confirms that the convergence was well obtained.

5.3 Non/2-D/3-D comparison

Two cases are presented here, one of which is not part of the systematic tests:

- Mo = 0.7 α = 0°
- Mo = 0.8 α = 0°

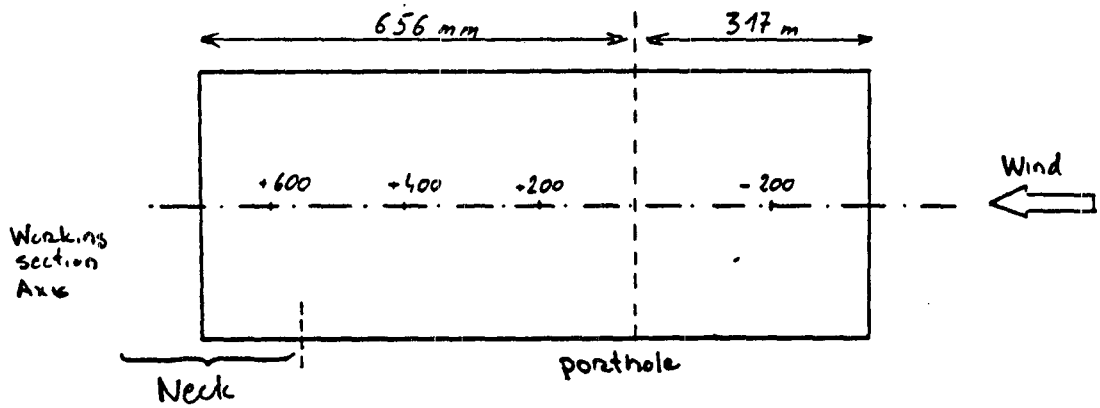
The differences observed following the various types of "adaptation" will become more significant as lift and Mach number upstream increase. The adaptation called "two-dimensional" gives results nearer to the non-adapted case; in fact, everything happens as if the aerodynamic incidence of the two-dimensional case were higher than that of the tests with a wall shape adapted in three dimensions. On the other hand, ~~rectilinear~~ straight walls lead to a higher effective Mach number upstream (blockage effect).

In the first case (figure 21), the differences are moderate; they are more significant in the second case (figure 22). Observation of the ~~direction~~ slope of the walls leaving the ~~convergent~~ contraction (figure 21) shows that, effectively, the direction of the flow upstream is no longer horizontal in the "2-D" case, unlike the "3-D" case; the angular reference was given by the "non-adapted" case. The effect produced is ~~incontestable~~ indisputable, because we /17 previously demonstrated that rotation of the walls ~~assembly~~ modified the aerodynamic incidence of the model; however, this is not sufficient to prove that the 2-D case is ~~erroneous~~ in error, because the direction of the ~~current~~ stream lines in ~~unlimited the atmosphere is~~ unconfined flow are not known. We note also the very different shapes of the walls downstream; they go downward for the "3-D" cases, which is logical allowing for the chosen ~~schematization~~ representation (horseshoe vortex) and the calculation made (in the plane of symmetry). But once more, that does not prove that the shape obtained is optimum.

Finally, one can observe on the last figure (23) that the effect ~~produced by~~ of modifying the shape of the walls is not constant across the wingspan. This was predictable due to the working section geometry itself, allowing for twist of the wing and for three-dimensional effects.

5.4 Visualizations

For three configurations, oil visualizations were done on the left ~~door~~ sidewall of the working section, giving the direction of the ~~current~~ stream lines 55.4 mm from the end of the wing. Reference marks were made, making it possible to locate the positions relative to the ~~current~~ stream lines and to measure their deviations.



The end of the wing is located between the abscissas 91.06 mm and 135.86 mm from the porthole (figure 6) and very near to the section axis (function of the incidence).

The maximum deviations noticed are located on the test section axis slightly behind the tip of the wing (figures 24, 25, and 26).

Mo	α	Walls	δ max	
0,6	+2°	"Non-adapted" AD 4	(5°.....6°)	Figure 24
0,6	+2°	Adapted 2-D	(5°.....6°)	Figure 25
0,6	-2°	"Non-adapted" AD 4	~ 0,5°	Figure 26

The photos taken from behind clearly show the deviations of the ~~current~~ stream lines. /18

5 - SYSTEMATIC TESTS

For the 36 ~~gusts~~ tunnel runs that made up the systematic tests (~~paragraph~~ section 4 and figure 26a), the following information is given: wall shape (figures 27 and 28), Mach numbers of the three rows of recorders on the adaptable walls (figures 29, 30, 31, and 32), Mach numbers of the left lateral ~~door~~ sidewall (figures 33, 34, 35, and 36) following the horizontal axis or the three verticals, and finally spread of Kp on the AS 07 wing (figures 37 to 44).

Numerical values for these curves are given in the attached test listings. File numbers corresponding in chronological order to the experiments were kept in the interests of clarity.

Here will be found a systematic comparison of the three cases of adaptation--"Non/2-D/3-D"--and their influence on the ~~speed~~ velocity distributions. ~~whose~~ The principal characteristics of which were seen in ~~paragraph~~ section 5.3.

Finally, integration of Kp for each section supplies local lift coefficient Cz. The values are tabulated in figure 45; they were traced along the wingspan of the various configurations tested (figures 46 and 47). It is observed that the internal wing changes less rapidly than the external wing with incidence (figure 46) or Mach number ~~upstream~~ test (figure 47).

On the other hand, the ~~gap~~ difference between the "non-adapted" and adapted 3-D" cases increases with the lift.

Local Cz; were multiplied by the chord of the profile in the section considered; the product Cz · C represents local contribution to wing lift. The values obtained were traced in this representation (figures 48 and 49); this weighting modifies the appearance of the curves ("elliptic" distribution plane), but the observed tendencies are the same. /19

Finally, integration of the curves in this last representation supplies the overall lift coefficient of the wing, which was reported as a function of incidence (figure 50). We have also reported the lift measured during the preceding series [1], done between rectilinear walls for a Mach number upstream of 0.47. The effect of compressibility is felt more as supersonic zones develop on the wing.

- CONCLUSION

This series of tests on the AS 07 wing is registered as a study on three-dimensional adaptation of the T2 wind tunnel. It uses the two flexible walls to minimize residual corrections in the presence of a three-dimensional model. It implements the "E. Wedemeyer and L. Lamarche" method where schematization of the model by a distribution of singularities adequately represents an axisymmetrical body. Extrapolation of these methods in the case of a half-wing at the wall has no ultimate goal; it serves merely as a preliminary phase, to observe the influence of wall shape on various sections of the wing, to study the convergence of the method, and to make adjustments (rotation of walls, incidence, etc.).

On the other hand, these experiments can serve as a basis for calculating potential three-dimensional flow around the model. Then, a three-dimensional object placed in the section

theoretically
theoretically represented
could be more elaborately ~~schematicized~~; it would lead to development, as for axisymmetrical bodies, of a method of adaptation minimizing the influence of the walls on the model.

At present, it is difficult to know if the shape called "adapted 3-D" is nearer to the values of ~~unlimited atmosphere~~ unconfined flow than the shape "adapted 2-D," but it is definitely not the optimum shape.

boundary
continue with
Boundary
The tests will ~~next be completed by~~ directional ~~limit~~ layer measurements readings on the lateral side wall ~~at the~~ level ~~of the end of~~ with the wing tip. The direction of the ~~current~~ stream lines in this area will be an important element in the ~~reality~~-calculation comparisons.

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LIST OF FIGURES

b - 2-D ($\alpha = 0°$, Mo = 0.8)

- Beginning of AD 4 (File AD 133)
  Wall shape
  Profile Mach ~ 19

- Beginning of a similar shape: AD 133 (File AD 134)
  Wall shape
  Profile Mach ~ 20

3.3 Non/2-D/3-D comparison

- ($\alpha = 0°$, Mo = 0.7) Wall shape
  Wall Mach ~ (mach no.) 21

- ($\alpha = 0°$, Mo = 0.7) Profile Mach ~(2)
  Profile Mach ~(3) 21

- ($\alpha = 0°$, Mo = 0.8) Wall shape
  Wall Mach ~ 22

- ($\alpha = 0°$, Mo = 0.8) Profile Mach ~(2)
  Profile Mach ~(3) 22

- ($\alpha = 0°$, Mo = 0.8) Kp 23

Visualization, left lateral ~~door~~ side wall.

- ($\alpha = +2°$, Mo = 0.6) Non - front
  Visu (2) - back 24

- ($\alpha = +2°$, Mo = 0.6) 2-D - front
  Visu (1) - back 25

- ($\alpha = +2°$, Mo = 0.6) Non - front
  Visu (3) - back 26

Use in 4 base cases

5.1 Wall shape

- $\alpha = -2°$ Mo = 0.6
- $\alpha = +2°$ Mo = 0.6 27

- $\alpha = 0°$ Mo = 0.6
- $\alpha = 0°$ Mo = 0.8 28

5.2 Adaptable wall Mach ~

- ($\alpha = -2°$ Mo = 0.6) - Non
  - 2-D
  - 3-D 29

- ($\alpha = 0°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 30

- ($\alpha = +2°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 31

- ($\alpha = 0°$ Mo = 0.8) - Non
  - 2-D
  - 3-D — 32

5.3 Lateral wall Mach no

- ($\alpha = -2°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 33

- ($\alpha = 0°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 34

- ($\alpha = +2°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 35

- ($\alpha = 0°$ Mo = 0.8) - Non
  - 2-D
  - 3-D — 36

5.4 Kp

- ($\alpha = -2°$ Mo = 0.6) Non adapted — 37

- ($\alpha = -2°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 38

- ($\alpha = 0°$ Mo = 0.6) Non adapted — 39

- ($\alpha = 0°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 40

- ($\alpha = +2°$ Mo = 0.6) Non adapted — 41

- ($\alpha = +2°$ Mo = 0.6) - Non
  - 2-D
  - 3-D — 42

- ($\alpha = 0°$ Mo = 0.8) Non adapted — 43

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