

# DOSSIER DE VOL

## Compte-rendu

Liste des documents :

Ordre d'essai  
Journal de bord de l'ingénieur  
Feuille de tops  
Fiches de suivi instruments

## Ordre d'essai

Plan de vol	G. Seurat
CdB	G. Seurat
Copilote	J.-F. Bourdinot
Occupant jump seat	T. André
Expé principal SAFIRE	F. Pouvesle
Expé SAFIRE	J. Lernould
PI	M. Lothon
Expés instruments	C. Caudoux, J. Delanoë
Expés instruments	C. Gourbeyre, P. Chazette
Expés instruments	F. Aemisegger

Heure de décollage  
*Take-off time*

13:43

Durée du vol  
*flight duration*

4.1

Objectif du vol/Flight aim

EUREC4A

Profil du vol / Flight Pattern

Test flight with two rectangular pattern at 650 and 380m. Radiometers calibration pattern at 4800m



vol ATR F-HMTO n° 2 du 25 janvier 2020

Feuille de tops  
Rédacteur du compte-rendu : F. Pouvesle

### Paramètres de départ

Leaving apron : 13:39 Take-off : 13:43 Landing : 17:42	QNH : 1015 hPa wind : 110° 12kt ; T : 28°C ; Td : 22°C visi >10 km ; FEW 1200 ft NOSIG
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Top	Data	Time	Seconds	Alt	Comments
1	377	13:11:34	47494.000	ground	TERPS reading 1010.39hPa
2	1957	13:37:54	49074.000	id.	Time top = 13:37:54
3	2081	13:39:58	49198.000	id.	Leaving apron
4	2295	13:43:32	49412.000	id.	Take-off (rotation) RWY09
5	2371	13:44:48	49488.000	400m	Radome holes vent
6	2419	13:45:36	49536.000	500m	At cloud base height
7	2490	13:46:47	49607.000	750m	At cloud summit height
8	2802	13:51:59	49919.000	2200m	Beginning of leg
9	3392	14:01:49	50509.000	id.	End of leg, start of climb
10	3492	14:03:29	50609.000	2900m	Beginning of leg
11	3790	14:08:27	50907.000	id.	U turn
12	3923	14:10:40	51040.000	id.	Resuming leg at opposite heading
13	4054	14:12:51	51171.000	id.	End of leg, start of descent and right turn. Cloud top at about 1500m
14	4361	14:17:58	51478.000	650m	Beginning of leg at cloud base height
15	4676	14:23:13	51793.000	id.	End of leg, right turn and beginning of next leg
16	4844	14:26:01	51961.000	id.	End of leg, right turn
17	4881	14:26:38	51998.000	id.	Beginning of leg
18	5974	14:44:51	53091.000	id.	Under rain
19	6098	14:46:55	53215.000	id.	End of leg, start of descent

Top	Data	Time	Seconds	Alt	Comments
20	6159	14:47:56	53276.000	id.	Beginning of leg
21	6255	14:49:32	53372.000	id.	End of leg, right turn and beginning of next leg
22	6570	14:54:47	53687.000	id.	Descending to adjust height at cloud base
23	6630	14:55:47	53747.000	580m	Resuming leg
24	7516	15:10:33	54633.000	id.	End of leg, right turn and beginning of next leg
25	7677	15:13:14	54794.000	id.	End of leg, right turn and beginning of next leg
26	8955	15:34:32	56072.000	id.	End of leg, right turn and beginning of next leg
27	9104	15:37:01	56221.000	id.	End of leg, right turn and beginning of next leg
28	9774	15:48:11	56891.000	id.	End of leg and right turn
29	9884	15:50:01	57001.000	530m	Beginning of leg
30	10215	15:55:32	57332.000	id.	End of leg, start of descent
31	10309	15:57:06	57426.000	340m	Right turn
32	10506	16:00:23	57623.000	id.	Beginning of leg
33	10814	16:05:31	57931.000	id.	End of leg, start of climb
34	11656	16:19:33	58773.000	4800m	End of climb and beginning of leg toward sun Veil of Ci above
35	11835	16:22:32	58952.000	id.	End of leg, U turn
36	11936	16:24:13	59053.000	id.	Start of leg at opposite heading
37	12118	16:27:15	59235.000	id.	End of leg and right turn
38	12172	16:28:09	59289.000	id.	Start of leg with sun 90° off right
39	12350	16:31:07	59467.000	id.	End of leg and U turn
40	12450	16:32:47	59567.000	id.	Start of leg at opposite heading
41	12631	16:35:48	59748.000	id.	Calibration pattern is aborted due to heavy cloud layer above and below
42	13633	16:52:30	60750.000	id.	Beginning of leg toward sun
43	13814	16:55:31	60931.000	id.	End of leg, U turn



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Top	Data	Time	Seconds	Alt	Comments
44	13905	16:57:02	61022.000	id.	Start of leg at opposite heading
45	14098	17:00:15	61215.000	id.	End of leg and right turn
46	14139	17:00:56	61256.000	id.	Start of leg with sun 90° off right
47	14320	17:03:57	61437.000	id.	End of leg and U turn
48	14409	17:05:26	61526.000	id.	Start of leg at opposite heading
49	14606	17:08:43	61723.000	id.	End of leg. Start of fly back
50	15303	17:20:20	62420.000	4500m	Beginning of final descent
51	15707	17:27:04	62824.000	2400m	At cloud summit height
52	15961	17:31:18	63078.000	1200m	At cloud base height
53	16611	17:42:08	63728.000	ground	Landing RWY 09
54	16777	17:44:54	63894.000	id.	Stop for refuelling

Comments :

Angle of attack and vertical wind wrong.