

FLIGHT FOLDER

Report

List of documents :

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

Ordre d'essai

Plan de vol	C.Lendroit
CdB	D. Duchanoy
Copilote	C.Lendroit
Occupant jump seat	K.Salaun
Expé principal SAFIRE	H.Bellec
Expé SAFIRE	G.Vergez
PI	PE. Brilouet
Expés instruments	J.Delanoe, B.Stevens
Expés instruments	A. Schwarzenboeck, J.TOTEMS
Expés instruments	R Chewitt Lucas

Heure de décollage
Take-off time

11 :30

Durée du vol
flight duration

4.5

Objectif du vol/Flight aim

EUREC4A

Profil du vol / Flight Pattern

Flight with first leg FL750 ten minutes, then three rectangulars at cloud base level (780 m) then two L pattern at level 550 m, and 260m. Low leg 60m, then track 3800 m, and at 2380 m to scan stratiform layer..



vol ATR F-HMTO n° 18 du 11 février 2020

Top sheet

Report Writer : G. Vergez

Departure parameters

Leaving apron : 11:25:11	QNH : 1016 hPa
Take-off : 11:30:09	wind : 100° 18kt ; T : 25°C ; Td : 21°C
Landing ::	clouds : Sct 1800ft, Bkn 3600ft, visi = 10 km

Top	Data	Time	Seconds	Alt (radioalti in m)	Comments
1	77	10:44:28	38668.040	ground	TERPS reading 1010.49 hPa (corrected 1010,42 hPa)
2	919	10:58:31	39511.040	id.	Clock top : 10:58:30.
3	2063	11:17:35	40655.040	id	Safire QNH calibration = 1016 hPa
4	2519	11:25:11	41111.040	id	Leaving apron
5	2817	11:30:09	41409.040	ground □	Take-off (rotation) RWY09
6	2897	11:31:29	41489.040	↗480 m	Entering dust layer 480m (out of 1600m)
7	2952	11:32:24	41544.040	↗850 m	Radome holes vent
8	3217	11:36:49	41809.040	↗2240 m	Crossing stratiform clouds
9	3284	11:37:56	41876.040	↗2418 m	Crossing intermittent clouds. Stable for 1'.
10	3382	11:39:34	41974.040	2418 m	Near Cu summit
11	3540	11:42:12	42132.040	id	Entering Cu. Moderate turbulences.
12	4078	11:51:10	42670.040	id	Out of clouds
13	4109	11:51:41	42701.040	id	Immediatly inside again.
14	4311	11:55:03	42903.040	2422 ↘	Descending to 700 m
15	4434	11:57:06	43026.040	↘	QNH = 1017
16	4541	11:58:53	43133.040	↘736 m	Stable, tempo in clouds. Beginning R1 eastern leg N/S. Sometimes under or upper base cloud.
17	5188	12:09:40	43780.040	736m	Turn right W/E leg.
18	5243	12:10:35	43835.040	↗↗775 m	Climbing 50 m
19	5326	12:11:58	43918.040	775 m	Turn right, N/S leg.
20	5527	12:15:19	44119.040	id	Entering Cu
21	5645	12:17:17	44237.040	775 m	Rain
22	6598	12:33:10	45190.040	Id	Turn to W/E leg, few clouds
23	6771	12:36:03	45363.040	id	Turn to N/S leg

Top	Data	Time	Seconds	Alt (radioalti in m)	Comments
24	7429	12:47:01	46021.040	775m	End R1, begin R2 (S/N leg)
25	8040	12:57:12	46632.040	id	Turn right, to E/W leg.
26	8170	12:59:22	46762.040	id	Turn right, to S/N leg.
27	8452	13:04:04	47044.040	id	Entering coulds, moderate turbulnces, OVC below.
28	9095	13:14:47	47687.040	id	Scattering sc layer, some light cu.
29	9445	13:20:37	48037.040	id	Turn right, W/E leg
30	9610	13:23:22	48202.040	id	Turn right, N/S leg
31	10258	13:34:10	48850.040	id	End of R2, begin R3 (S/N leg)
32	10879	13:44:31	49471.040	id	Turn right to E/W leg.
33	11013	13:46:45	49605.040	786m	Some Cu med. Turn right to S/N leg.
34	12296	14:08:08	50888.040	id	Turn right, W/E leg, few Cu, Above us only sky.
35	12466	14:10:58	51058.040	id	Turn right, N/S leg.
36	13113	14:21:45	51705.040	id	End of Rectangles, turn right
37	13175	14:22:47	51767.040	786↗	Begining descent, 2000 ft,
38	13230	14:23:42	51822.040	↘618m	Stable, 2000 ft Qnh (1021), alignment for L1.
39	13395	14:26:27	51987.040	618m	Begining L1 W/E
40	13435	14:27:07	52027.040	↗↘560m	Light descent 200 ft
41	14159	14:39:11	52751.040	560m	End W/E leg L1, turn right to N/S leg.
42	14793	14:49:45	53385.040	560m↗	End leg N/S L1, descending for alignment.
43	14874	14:51:06	53466.040	↘264m	Stabilised
44	15022	14:53:34	53614.040	264m	Begin L2, S/N leg.
45	15635	15:03:47	54227.040	id	End S/N, turn left, begin E/W L2, sunny sky. Info pilot : wind 75dg/24 kt.
46	16294	15:14:46	54886.040	264m↗	End L2, descent to low leg 200 ft
47	16377	15:16:09	54969.040	↘72m	Stabilised low leg
48	16819	15:23:31	55411.040	72m↗	End leg, climbing to sc FL140
49	17160	15:29:12	55752.040	↗2400m	end layer aerosols (lidar info)
50	17323	15:31:55	55915.040	↗3350m	Crossing first stratiform layer
51	17366	15:32:38	55958.040	↗3820 m	In stratiform layer for 7'



Top	Data	Time	Seconds	Alt (radioalti in m)	Comments
52	17663	15:37:35	56255.040	3820 m ↗	No more stratiform layer, descending to sample layer below.
53	17904	15:41:36	56496.040	2350 m ↘.	Crossing layer . Reduce descent to keep in the layer
54	18013	15:43:25	56605.040	1800 m ↘.	End of layer 1800m. Descnt to BGI
55	18459	15:50:51	57051.040	↘Ground	Landing
56	18579	15:52:51	57171.040	Ground	Parking

Comments :

Sensor enviscope humidity and temperature no working.

1 st rectangle	1 st "L" pattern
2 nd rectangle	2 nd "L" pattern
3 rd rectangle	