

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	G. Seurat
CdB	D. Duchanoy
Copilote	G. Seurat
Occupant jump seat	K.Salaun
Expé principal SAFIRE	H.Bellec
Expé SAFIRE	G.Vergez
PI	C.Flammand
Expés instruments	J.Delanoë, P.Courtis
Expés instruments	A. Schwarzenboeck, P.Chazette
Expés instruments	C.Subrath-ALI

Heure de décollage
Take-off time

19 :49

Durée du vol
flight duration

4.3

Objectif du vol/Flight aim

EUREC4A

Profil du vol / Flight Pattern

Flight with first leg FL180 ten minutes, then three rectangulars at cloud base level (2000 ft) then two L pattern at level 1500 ft and 1000 ft; then last track at FL100.



vol ATR F-HMTO n° 8 du 31 janvier 2020

Top sheet
Report Writer : G. Vergez

Departure parameters

Leaving apron : 19:38:38	QNH : 1018 hPa
Take-off : 19:49:12	wind : 100° 16kt ; T : 29°C ; Td : 22°C
Landing : 00:01:07	clouds : scattered 2000 ft, mist , visi = 10 km

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
1	1282	19:32:34	70354	ground	TERPS reading 1010.53 hPa (door closed)
					Safire QNH calibration (>qnh xxx) = 1015 hPa
2	1646	19:38:38	70718	id.	Leaving apron
3	2280	19:49:12	71352	ground ↗	Take-off (rotation) RWY09
4	2370	19:50:42	71442	1520 ft ↗	Cloud base at 490m GPS
5	2693	19:56:05	71765	6560 ft ↗	Out of dust layer at 2100 m GPS
6	2793	19:57:45	71865	↗FL080	Stable at FL080
7	3408	20:08:00	72480	FL080	Scattered layer below , becoming broken.
8	3531	20:10:03	72603	id	Entry point , right turn 60°
9	3595	20:11:07	72667	FL080 ↘	descent to 2000 ft
10	3666	20:12:18	72738	5660 ft ↘	Layer dust at 1800 m GPS
11	3801	20:14:33	72873	↘2000ft	Safire QNH calibration 1018 hPa. Mist.
		20:15:55			
12	4043	20:18:35	73115	2000 ft↘1780 ft	Cloud base
13	4100	20:19:32	73172	↘1710 ft	Descent to cloud base
14	4250	20:22:02	73322	id.	Temporary crossing clouds until turn
15	4478	20:25:50	73550	id.	End of the South/North Leg Right turn to Eastward
16	4531	20:26:43	73603	id.	Stable, Beginning of the West/East Leg
17	4651	20:28:43	73723	id.	End of the West/East Leg, right turn Southward
18	4686	20:29:18	73758	id.	Stable North/South Leg
19	4831	20:31:43	73903	↗1770ft	Climb to cloud base
20	4978	20:34:10	74050	↗1933 ft	Climb to cloud base
21	5436	20:41:48	74508	↗2000 ft	Climb to cloud base
22	5964	20:50:36	75036	2000 ft	Turn westward

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
23	6109	20:53:01	75181	2000 ft	Turn to South/North leg
24	6347	20:56:59	75419	id	In cloud base, few Ac below
25	6718	21:03:10	75790	2000 ⇄ 1920ft.	Descent to cloud base
		21:03:55		id	End of 1 st rectangle. Beginning 2 nd .
26	6853	21:05:25	75925	id	Layer more denser
27	7297	21:12:49	76369	1800 ft	Strong echo from Basta
28	7363	21:13:55	76435	id.	Turn to West-East leg
29	7530	21:16:42	76602	id	Turn to North/South leg
30	7654	21:18:46	76726	⇄ 1900 ft	Climbing 30 meters to cloud base
31	7984	21:24:16	77056	id.	crossing dense Cu
32	8830	21:38:22	77902	id.	End of the North/South leg Right turn to East/West leg
33	8977	21:40:49	78049	id.	End of the East/West leg Right turn to South/North leg
		21:51:40			End of 2 nd rectangle. Beginning 3th.
34	10228	22:01:40	79300	id.	End of the South/North leg Right turn to West-East leg
35	10397	22:04:29	79469	id.	End of the West-East leg Right turn to North/South leg
36	11678	22:25:50	80750	id.	End of the North/South Leg. Right turn to East/West leg
37	11876	22:29:08	80948	id.	Beginning of the South / North Leg
38	12485	22:39:17	81557	⇄ 1500 ft	End of 3 rd rectangle. Descent to 1500 ft
39	12718	22:43:10	81790	⇄ 1500 ft	Beginning first L, West/East leg
40	13472	22:55:44	82544	1500 ft	End leg, turn right to North/South leg.
41	14117	23:06:29	83189	1500 ft ⇄ 1000 ft	End first L, right aligned , aligned on the 2 nd L, South/North Leg
42	14397	23:11:09	83469	1000 ft	Beginning South/North leg, 2 nd leg
43	15010	23:21:22	84082	id.	End Leg, Right turn westward to last leg
44	15677	23:32:29	84749	1000 ft ⇄ FL100	End of East/West leg, climbing to FL100
45	16127	23:39:59	85199	⇄ FL100	Stable FL100 for ten minutes.
46	16510	23:46:22	85582	FL100	Loss 220 V converter at 23:41
47	16770	23:50:42	85842	FL100 ⇄	Beginning descent to airport
48	17395	24:01:07	86467	⇄ Ground	Landing
49	17569	24:04:01	86641	Ground	Parking

Comments :

Loss 220 V converter affected Climat radiometer, gerber (liquid water content), Angle of attack and vertical wind wrong.

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