

# FLIGHT FOLDER

## Report

List of documents :

Flight crew  
Flight aim  
Top Sheet  
Comments

## Ordre d'essai / Flight crew

Plan de vol	G. Seurat
CdB	D. Duchanoy
Copilote	G. Seurat
Occupant jump seat	T. André
Expé principal SAFIRE	M. Cluzeau
Expé SAFIRE	T. Jiang
PI	C.Flammand
Expés instruments	J.Delanoe, A. Schwarzenboeck
Expés instruments	P.-E. Brilouet, B. Fildier
Expés instruments	F. Aemisegger

Heure de décollage  
*Take-off time*

8 : 45 : 12

Durée du vol  
*flight duration*

4.4

### Objectif du vol/Flight aim

EUREC4A

### Profil du vol / Flight Pattern

Flight with first leg at FL100,  
one rectangle at cloud top and two rectangle at cloud base level  
(FL60 and 2350 ft QNH),  
two "L" pattern at levels 1750 and 850 ft QNH,  
two legs at 200 ft QNH and FL100.



vol ATR F-HMTO n° 11, 5 february 2020

Top sheet  
Report Writer : T. Jiang

### Departure parameters

Leaving apron : 08 : 40  
Take-off : 08 : 45 : 12  
Landing : 12 : 59 : 18

QNH : 1017 hPa  
wind : 090° 13kt ; T : 26°C ; Td : 21°C  
SCT 2002 ft, visi > 10 km

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
1	55	08:20:35	30035.440	ground	TERPS reading 1010.01 hPa (door open)
2	140	08:22:00	30120.440	id.	Time synchronisation top : 08 : 22 : 00
3	697	08:31:17	30677.440	id.	Safire QNH calibration = 1017 hPa
4	841	08:33:41	30821.440		WVSS acquisition problem
5	1274	08:40:54	31254.440	id.	Leaving apron METAR TBPB 050800Z 09016KT 9999 FEW024 25/20 Q1015 NOSIG=
6	1532	08:45:12	31512.440	ground ↗	Take-off (rotation) RWY09
7	1601	08:46:21	31581.440	1600 ft ↗	Radome holes vent
8	1622	08:46:42	31602.440	1650 ft ↗	De-icing Gerber probe
9	2251	08:57:11	32231.440	FL100	Stable since 8 : 56, above the clouds
10	2317	08:58:17	32297.440	id.	Light turbulence, cloud crossing
11	2858	09:07:18	32838.440	FL100 ↘	Entry Point, start of descent
12	3096	09:11:16	33076.440	FL65 ↘	Cloud crossing
13	3117	09:11:37	33097.440	FL60	Entry Point, stable, start of the 1 <sup>st</sup> rectangle, South/North leg, at the top of the clouds
14	3669	09:20:49	33649.440	id.	End of the South/North leg, right turn
15	3712	09:21:32	33692.440	id.	Start of the West/East Leg
16	3828	09:23:28	33808.440	id.	End of the West/East Leg, right turn
17	3864	09:24:04	33844.440	id.	Start of the North/South Leg
18	4080	09:27:40	34060.440	id.	Going into clouds, below the cloud layer
19	4242	09:30:22	34222.440	id.	Light turbulence
20	4354	09:32:14	34334.440	id.	In the clouds
21	4565	09:35:45	34545.440	id.	Cloud crossing, light turbulence
22	4705	09:38:05	34685.440	id.	Out of clouds
23	4960	09:42:20	34940.440	FL60	Cloud crossing, light turbulence

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
24	5053	09:43:53	35033.440	FL60	End of the North/South Leg, right turn
25	5095	09:44:35	35075.440	id.	Start of the East /West Leg
26	5197	09:46:17	35177.440	id.	End of the East /West Leg, right turn
27	5242	09:47:02	35222.440	id.	Start of the South/North Leg, light turbulence
28	5340	09:48:40	35320.440	id.	Start porthole camera acquisition, turbulence
29	5641	09:53:41	35621.440	id.	Light turbulence
30	5792	09:56:12	35772.440	FL60 ↻	End of the 1 <sup>st</sup> rectangle, Entry Point, start descent
31	5942	09:58:42	35922.440	2440 ft ↻	Stable, then resuming descent
32	6022	10:00:02	36002.440	2340 ft ↻	Stable, then resuming descent
33	6100	10:01:20	36080.440	2250 ft	Stable at the cloud base
34	6260	10:04:00	36240.440	2250 ft ↻	Climbing
35	6329	10:05:09	36309.440	2350 ft	Stable at 2350 ft
36	6415	10:06:35	36395.440	id.	End of the South/North Leg, right turn
37	6452	10:07:12	36432.440	id.	Start of the West/East Leg
38	6581	10:09:21	36561.440	id.	End of the West/East Leg, right turn
39	6639	10:10:19	36619.440	id.	Start of the North/South Leg
40	6855	10:13:55	36835.440	id.	Cloud crossing
41	7215	10:19:55	37195.440	id.	Cloud crossing, in front of the Entry Point
42	7390	10:22:50	37370.440	id.	Light turbulence
43	7541	10:25:21	37521.440	id.	Light turbulence
44	7852	10:30:32	37832.440	id.	End of the North/South Leg, right turn
45	7891	10:31:11	37871.440	id.	Start of the East /West Leg
46	7993	10:32:53	37973.440	id.	End of the East /West Leg, right turn
47	8043	10:33:43	38023.440	id.	Start of the South/North Leg, light turbulence
48	8097	10:34:37	38077.440	id.	Cloud crossing, light turbulence
49	8270	10:37:30	38250.440	id.	Cloud crossing, light turbulence
50	8669	10:44:09	38649.440	id.	End of the 2 <sup>nd</sup> rectangle, Entry Point, middle of the South/North leg
51	8728	10:45:08	38708.440	id.	Cloud crossing, light turbulence
52	8898	10:47:58	38878.440	id.	Cloud crossing, light turbulence
53	9292	10:54:32	39272.440	2350 ft	End of the South/North Leg, right turn

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
54	9339	10:55:19	39319.440	2350 ft	Start of the West/East Leg
55	9464	10:57:24	39444.440	id.	End of the West/East Leg, right turn, light turbulence
56	9511	10:58:11	39491.440	id.	Start of the North/South Leg Start ground camera acquisition
57	10252	11:10:32	40232.440	id.	Light turbulence
58	10419	11:13:19	40399.440	id.	Rain
59	10527	11:15:07	40507.440	id.	Light turbulence
60	10723	11:18:23	40703.440	id.	End of the North/South Leg, right turn
61	10767	11:19:07	40747.440	id.	Start of the East /West Leg
62	10866	11:20:46	40846.440	id.	End of the East /West Leg, right turn
63	10915	11:21:35	40895.440	id.	Start of the South/North Leg
64	11111	11:24:51	41091.440	id.	Light turbulence
65	11232	11:26:52	41212.440	id.	Cloud crossing, light turbulence
66	11540	11:32:00	41520.440	2350 ft ↘	End of the 3 <sup>rd</sup> rectangle, Entry Point, middle of the South/ North leg, start descent, left turn
67	11710	11:34:50	41690.440	1450 ft	Entry Point, stable, light turbulence Beginning 1 <sup>st</sup> "L" pattern, West/East Leg
68	11813	11:36:33	41793.440	1450 ft ↗	Climbing
69	11846	11:37:06	41826.440	↗	Rain on the right side
70	11860	11:37:20	41840.440	1750 ft	Stable
71	12141	11:42:01	42121.440	id.	Light turbulence, rain
72	12475	11:47:35	42455.440	id.	End of the West/East Leg (East_L point), right turn
73	12525	11:48:25	42505.440	id.	Start of the South/North Leg (East_L point), light turbulence
74	13112	11:58:12	43092.440	1750 ft	End of 1 <sup>st</sup> "L" pattern ( North/South Leg), South_L Point
75	13163	11:59:03	43143.440	↘	60° right hand U turn, descent
76	13287	12:01:07	43267.440	850 ft	Start of the 2 <sup>nd</sup> "L" pattern, South/North Leg, South_L Point
77	13731	12:08:31	43711.440	id.	Light turbulence
78	13881	12:11:01	43861.440	id.	End of the South/North Leg (East_L point)
79	13924	12:11:44	43904.440	id.	Start of the East /West Leg (East_L point)
80	14184	12:16:04	44164.440	id.	Light turbulence
81	14223	12:16:43	44203.440	850 ft	Rain

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
82	14538	12:21:58	44518.440	850 ft ↘	End of 2 <sup>nd</sup> "L" pattern, East /West Leg, Entry point, Right turn and beginning descent
83	14663	12:24:03	44643.440	170 ft	Stable
84	14794	12:26:14	44774.440	↗ 200 ft	Right turn and climbing at 200 ft, radio problem
85	15323	12:35:03	45303.440	200 ft ↗	Left turn, start climbing
86	15751	12:42:11	45731.440	FL100	Stable
87	16244	12:50:24	46224.440	FL100 ↘	End of the leg, start of final descent
88	16305	12:51:25	46285.440	8400 ft ☼	Cloud crossing
89	16778	12:59:18	46758.440	↘ Ground	Landing METAR TBPB 051200Z 09019KT 9999 VCSH SCT018 SCT036 27/21 Q1017 NOSIG=
90	16929	13:01:49	46909.440	Ground	Parking

Comments :

1 <sup>st</sup> rectangle	1 <sup>st</sup> "L" pattern
2 <sup>nd</sup> rectangle	2 <sup>nd</sup> "L" pattern
3 <sup>rd</sup> rectangle	