

# FLIGHT FOLDER

## Report

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## Ordre d'essai / Flight crew

Plan de vol	G. Seurat
CdB	G. Seurat
Copilote	D. Duchanoy
Occupant jump seat	K. Salaun
Expé principal SAFIRE	M. Cluzeau
Expé SAFIRE	T. Jiang
PI	C. Flammand
Expés instruments	J. Delanoe, P. Courtis
Expés instruments	P.-E. Brilouet
Expés instruments	S. Young

Heure de décollage  
*Take-off time*

16 : 44 : 26

Durée du vol  
*flight duration*

4.5

### Objectif du vol / Flight aim

EUREC4A

### Profil du vol / Flight Pattern

Flight with first leg FL80 and FL100,  
three rectangles (start in front of the Entry Point) at cloud base level (2460 ft QNH),  
two "L" pattern at levels 1920 and 980 ft QNH,  
two legs at 220 ft QNH and FL100.



vol ATR F-HMTO n° 10, 2 february 2020

Top sheet  
Report Writer : T. Jiang

### Departure parameters

Leaving apron : 16 : 40  
Take-off : 16 : 44 : 26  
Landing : 21 : 35 : 45

QNH : 1016 hPa  
wind : 110° 13kt ; T : 30°C ; Td : 21°C  
mist , visi > 10 km

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
1	52	16:18:41	58721.760	ground	TERPS reading 1010.45 hPa (door open)
2	131	16:20:00	58800.760	id.	Time synchronisation top : 16:20:00
3	1195	16:37:44	59864.760	id.	Safire QNH calibration = 1016 hPa
4	1352	16:40:21	60021.760	id.	Leaving apron
5	1597	16:44:26	60266.760	ground ↗	Take-off (rotation) RWY09
6	1637	16:45:06	60306.760	1100 ft ↗	De-icing Gerber probe
7	1681	16:45:50	60350.760	1600 ft ↗	Radome holes vent
8	2034	16:51:43	60703.760	7000 ft ↗	Above the mist layer
9	2117	16:53:06	60786.760	FL80	Stable, above the clouds
10	2194	16:54:23	60863.760	id.	Light turbulence, cloud crossing
11	2457	16:58:46	61126.760	id.	Cloud crossing
12	2746	17:03:35	61415.760	id.	Cloud crossing
13	2783	17:04:12	61452.760	FL80 ↗	Climbing at FL100
14	2901	17:06:10	61570.760	FL100	Stable, light turbulence, above clouds
15	3058	17:08:47	61727.760	FL100 ↘	Entry Point, Stat of the West/East leg, in the clouds, turbulence, start of descent
16	3224	17:11:33	61893.760	5200 ft ↘	End of the West/East Leg, left turn for alignment
17	3421	17:14:50	62090.760	2340 ft	Stable, start of the 1 <sup>st</sup> rectangle in front of the Entry Point, North/South leg
18	3525	17:16:34	62194.760	2340 ft ↗	Climbing 30m
19	3753	17:20:22	62422.760	2440 ↗	Climbing 60m
20	3837	17:21:46	62506.760	2550 ↘	Descent at 2460 ft QNH
21	4069	17:25:38	62738.760	2460 ft	End of the North/South leg Right turn to start the East/West leg
22	4213	17:28:02	62882.760	id.	End of the East/West leg, right turn
23	4260	17:28:49	62929.760	id.	Start of the South/North leg

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
24	4864	17:38:53	63533.760	2460 ft	Entry Point, in the clouds, light turbulence
25	5461	17:48:50	64130.760	id.	End of the South/North leg, right turn
26	5506	17:49:35	64175.760	id.	Stat of the West/East Leg
27	5626	17:51:35	64295.760	id.	End of the West/East Leg, right turn
28	5664	17:52:13	64333.760	id.	Stat of the North/South Leg
29	6277	18:02:26	64946.760	id.	End of the 1 <sup>st</sup> rectangle In front of the Entry Point, cloud crossing
30	6361	18:03:50	65030.760	id.	Light turbulence
31	6436	18:05:05	65105.760	id.	Out of the clouds
32	6903	18:12:52	65572.760	id.	End of the North/South Leg, Right turn
33	7052	18:15:21	65721.760	id.	Start of the East /West Leg
34	7092	18:16:01	65761.760	id.	End of the East /West Leg, Right turn and start of the South/North Leg
35	7484	18:22:33	66153.760	id.	Cloud crossing, light turbulence
36	7584	18:24:13	66253.760	id.	Enter the clouds
37	7696	18:26:05	66365.760	id.	Entry point, middle of the South/North Leg
38	7828	18:28:17	66497.760	id.	Light turbulence
39	7950	18:30:19	66619.760	id.	Out of the clouds
40	8297	18:36:06	66966.760	id.	End of the South/North Leg Right turn
41	8334	18:36:43	67003.760	id.	Start of the West/East Leg
42	8445	18:38:34	67114.760	id.	End of the West/East Leg, right turn
43	8492	18:39:21	67161.760	id.	Start of the North/South Leg
44	8869	18:45:38	67538.760	id.	Light turbulence, cloud crossing
45	9105	18:49:34	67774.760	id.	End of the 2 <sup>nd</sup> rectangle, in front of the Entry Point, middle of the North/South leg
46	9260	18:52:09	67929.760	id.	Cloud crossing
47	9723	18:59:52	68392.760	id.	End of the North/South Leg, Right turn
48	9768	19:00:37	68437.760	id.	Start of the East /West Leg
49	9872	19:02:21	68541.760	id.	End of the East /West Leg, right turn
50	9920	19:03:09	68589.760	id.	Start of the South/North Leg
51	10459	19:12:08	69128.760	id.	Light turbulence, cloud crossing
52	10517	19:13:06	69186.760	2460 ft	Entry point, middle of the South/North Leg

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
53	10602	19:14:31	69271.760	2460 ft	Light turbulence, small rain
54	10689	19:15:58	69358.760	id.	Cloud crossing
55	11110	19:22:59	69779.760	id.	End of the South/North leg, right turn
56	11151	19:23:40	69820.760	id.	Start of the West/East Leg
57	11264	19:25:33	69933.760	id.	End of the West/East Leg, right turn
58	11305	19:26:14	69974.760	id.	Start of the North/South Leg
59	11469	19:28:58	70138.760	id.	Stop porthole camera acquisition (glare)
60	11801	19:34:30	70470.760	id.	Light turbulence
61	11937	19:36:46	70606.760	id.	End of the 3 <sup>rd</sup> rectangle, in front of the Entry Point, middle of the North/South leg
62	11961	19:37:10	70630.760	id.	Right turn for "L" alignment, cloud crossing
63	12076	19:39:05	70745.760	2460 ft ↘	Beginning descent at 1920 ft, restart porthole camera acquisition
64	12330	19:43:19	70999.760	1920 ft	Entry Point, stable Beginning 1 <sup>st</sup> "L" pattern, West/East Leg
65	12690	19:49:19	71359.760	id.	Rain on the right side
66	12748	19:50:17	71417.760	id.	Below clouds, light turbulence
67	13043	19:55:12	71712.760	id.	End of the West/East Leg, right turn
68	13093	19:56:02	71762.760	id.	Start of the South/North Leg
69	13686	20:05:55	72355.760	1920 ft ↘	End of 1 <sup>st</sup> "L" pattern ( North/South Leg), South_L Point
70	13753	20:07:02	72422.760	↻	60° right hand U turn, descent
71	13861	20:08:50	72530.760	980 ft	Start of the 2 <sup>nd</sup> "L" pattern, South/North Leg, South_L Point
72	14450	20:18:39	73119.760	id.	End of the South/North Leg and left turn
73	14495	20:19:24	73164.760	id.	Start of the East /West Leg, stop ground camera acquisition
74	14854	20:25:23	73523.760	id.	Rain on the right side
75	15137	20:30:06	73806.760	980 ft ↘	End of 2 <sup>nd</sup> "L" pattern, East /West Leg, Entry point, Right turn and beginning descent
76	15334	20:33:23	74003.760	220 ft	Stable, rain on the right side
77	15374	20:34:03	74043.760	id.	Right turn
78	15482	20:35:51	74151.760	id.	stable
79	15853	20:42:02	74522.760	220 ft ↗	End of the 220ft leg (7min), start of climb
80	16137	20:46:46	74806.760	FL70 ↗	In the clouds

Top	Data	Time	Seconds	Alt (alt_qnh in ft)	Comments
81	16165	20:47:14	74834.760	FL82 ↗	Below the clouds, climbing
82	16304	20:49:33	74973.760	FL100	METAR TBPB 022000Z 11012KT 9999 FEW020 28/22 Q1015 NOSIG=, restart ground camera acquisition
83	16696	20:56:05	75365.760	FL100 ↘	Start of final descent
84	17156	21:03:45	75825.760	↘ Ground	Landing
85	17290	21:05:59	75959.760	Ground	Parking

#### Comments :

Pas d'acquisition WVSS sur ARINC : câble débranché

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	