



International Civil Aviation Organization

ICAO Twenty-Ninth Meeting of the Regional Airspace Safety Monitoring Advisory Group (RASMAG/29)

Bangkok, 19 – 22 August 2024

Agenda Item 3: Reports from Asia/Pacific RMAs and EMAs

ADDITIONAL INFORMATION ON LHDs FROM THE AAMA 1 JANUARY 2023 TO 31 DECEMBER 2023

(Presented by Australian Airspace Monitoring Agency)

SUMMARY

This paper presents additional information on reported LHDs for the Australian and Indonesian airspaces managed by the AAMA and given in WP 5 and WP 6.

1. INTRODUCTION

1.1 Working papers 5 and 6 at this meeting presented information on LHDs and risk from the AAMA. During the meeting additional information was sought on some of LHDs.

1.2 A question was raised at RASMAG regarding the LHD classification type C at ENDOG in Indonesian airspace. This had a date-stamp of 1/04/2023 5:50:00 AM and had the following description with aircraft callsign and registration de-identified as XXX:

05:50Z XXX WAMM-WARR while maintaining FL340 request to block level FL300 up to FL340 DUE TO AIRSPEED INDICATOR MALFUNCTION 06:16Z XXX resumed normal operation and maintaining FL360 07:46Z XXX landed safely WARR at 0746Z others : NIL

1.3 This occurrence was classified as having a 26 minute duration and hence the bubble on Figure 2 appears large although the risk in this case would have been managed by ATC.

1.4 Regarding the 12 type A and B LHDs in Indonesian airspace (climb or descent without clearance), three were aircraft climbing/descending beyond the cleared flight level. The others appear to be pilot misunderstanding of cleared flight levels.

1.5 For the 17 type A and B LHDs in Australian airspace, many were due to a failure to change flight level in time for a 'CLIMB BY' clearance. Some were aircraft beginning the top of descent early due to a pilot misunderstanding of ATC instructions. Some appear to be aircraft climbing/descending near a boundary and involved a mis-communication of the approved clearance with two FIRs involved. Two were aircraft unable to CLIMB BY due to being too heavy and the pilot not communicating this to ATC in time.

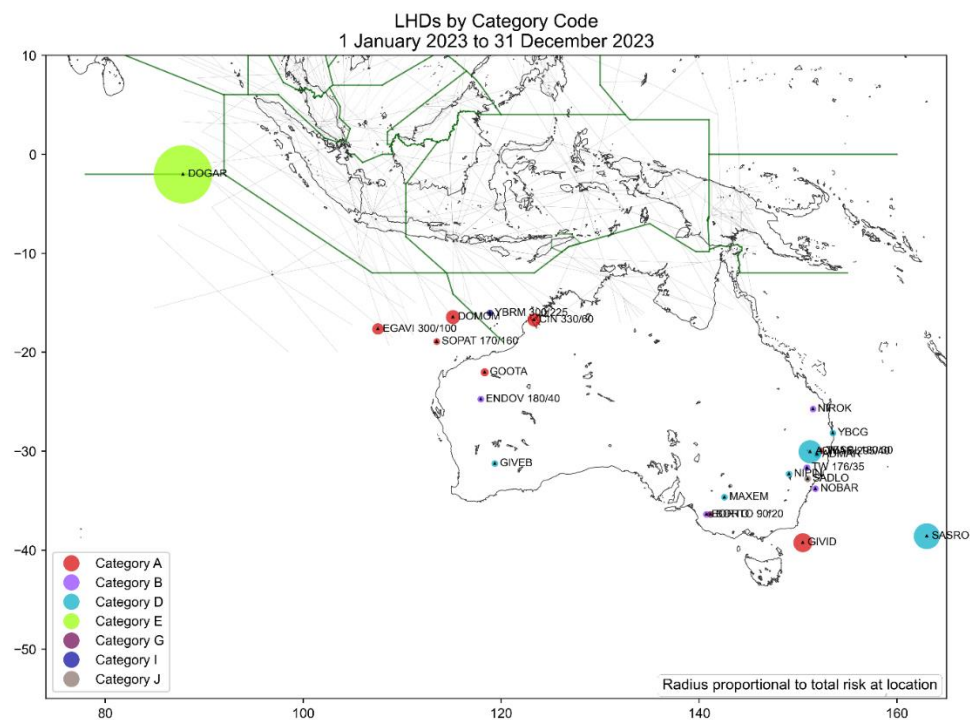


Figure 1: Geolocation of LHDs for Brisbane, Honiara, Melbourne, Nauru, and Port Moresby FIRs for the period 1 January 2023 to 31 December 2023. For comparison, the 2022 results are shown in the next figure.

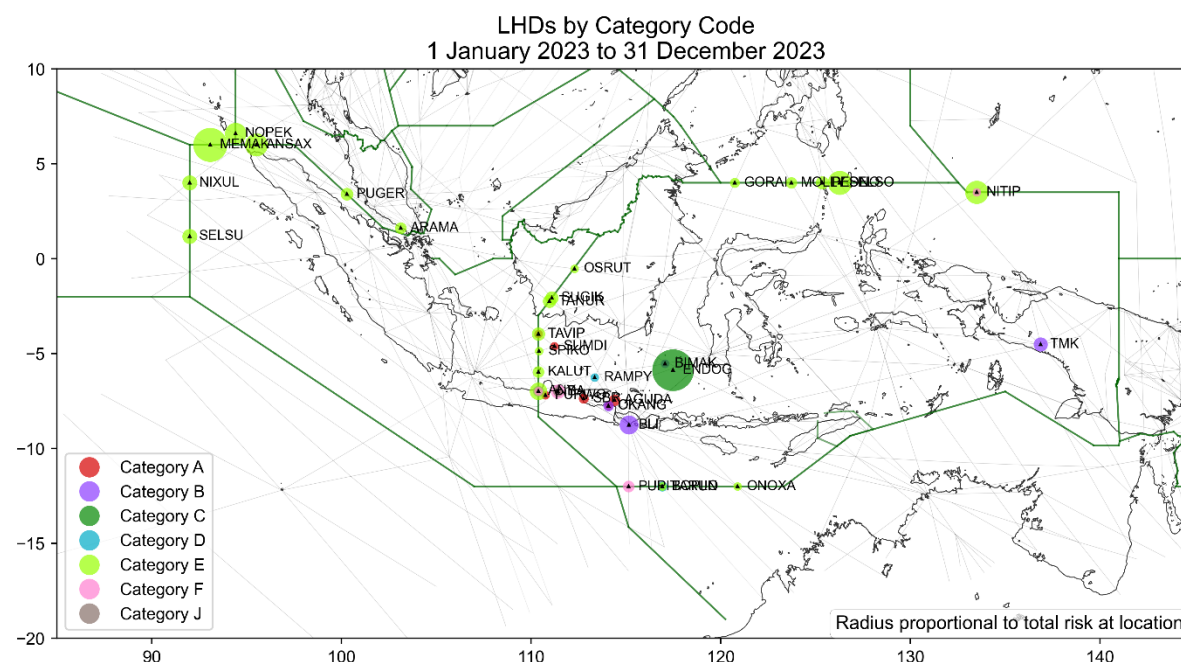


Figure 2: Geolocation of LHDs for the Indonesian FIR for the period 1 January 2023 to 31 December 2023.

1.6 clearances.

2. ACTION BY THE MEETING

2.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

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3. **Appendix**

date time		assessment	region	fl cross same	fl cross opp	min same	min opp	loc	lat	lon	transferring	accepting	risk	
10/01/2023 23:43	A	Pilot climbed to FL 370 with instruction to Fl 310	JAK_2	0	4	0	1	AGUDA	-7.46	114.41			7.4E-11	
9/02/2023 1:27	A	Pilot descended below cleared level	JAK_2	0	0.5	0	0.5	OKANG	-7.75	114.08			2.4E-11	
4/07/2023 9:38	A	Pilot climbed to incorrect FL	JAK_2	0	2	0	1	SBR	-7.37	112.77			5.6E-11	
12/07/2023 0:17	A	Pilot climbed to incorrect FL	UJU_2	0	0.5	0	0.5	TAVIP	-3.96	110.38			3.2E-11	
12/07/2023 8:05	A	Pilot climbed to incorrect FL	JAK_2	0	0.5	0	0.5	SUMDI	-4.62	111.23			2.4E-11	
16/10/2023 3:43	A	Aircraft climbed past assigned FL	JAK_2	0	0.3	0	0.5	PURWO	-7.20	110.75			2.2E-11	
26/01/2023 5:44	B	Aircraft climbed without approval	JAK_2	0	0	0	3	TMK	-4.52	136.87			1.1E-10	
1/02/2023 7:48	B	Aircraft descended without clearance	JAK_2	0	0.5	0	0.5	BIMAK	-5.53	117.07			2.4E-11	
22/02/2023 6:27	B	Aircraft climbed without approval	UJU_2	0	1	0	1	OKANG	-7.75	114.08			6.4E-11	
25/07/2023 13:50	B		JAK_2	0	3.5	0	3	BLI	-8.75	115.16			1.5E-10	
2/08/2023 4:10	B	Climb without clearance	UJU_2	0	0.5	0	1	BLI	-8.75	115.16			5.7E-11	
10/08/2023 9:36	B	Dscent without clearance	UJU_2	0	1.4	0	1	ANY	-6.97	110.38	SBY TMA		6.8E-11	
1/04/2023 5:50	C	Airspeed indicator malfunction	JAK_2	0	0	0	26	ENDOG	-5.88	117.48			9.9E-10	
12/02/2023 23:40	D	Aircraft climbed above cleared level to FL 333 not 330.	JAK_2	0	0.3	0	0.5	RAMPY	-6.25	113.35			2.2E-11	
16/07/2023 15:15	D	Communication system issues	JAK_2	0	2	0	1	BOPLO	-12.00	116.92			5.6E-11	
3/01/2023 17:25	E	Coordination error by ATC	UJU_2	0	0	0	0	CAHYO	3.50	133.50	UJU_2	OAKLAND	0.0E+00	
8/01/2023 12:48	E	AIDC failed	UJU_2	0	0	0	0	SADAN	4.00	128.08	MANILA	UJU_2	0.0E+00	
10/01/2023 6:00	E	ATC failed to send boundary time for aircraft	JAK_2	0	0	0	0	SURGA	-0.62	106.52	JAK_2	Singapore ACC		0.0E+00
10/01/2023 8:33	E	Late revision of FL to next FIR	JAK_2	0	0	0	0	SURGA	-0.62	106.52	JAK_2	Singapore ACC		0.0E+00
24/01/2023 18:15	E	Late revision of FL to next FIR	JAK_2	0	0	0	0	NOPEK	6.60	94.42	JAK_2	Kuala Lumpur		0.0E+00

28/01/2023 16:30	E	Late revision of FL to next FIR	UJU_2	0	2	0	1	ARAMA	1.62	103.12	Singapore ACC	JAK_2	7.6E-11	
29/01/2023 11:32	E	Late transfer to next FIR	UJU_2	0	0	0	0	NOPEK	6.60	94.42	Kuala Lumpur ACC	JAK_2	0.0E+00	
31/01/2023 18:37	E	ATC failed to send information on deviation to next FIR	JAK_2	0	0	0	0	CAHYO	3.50	133.50	OAKLAND	UJU_2	0.0E+00	
2/02/2023 15:53	E	No coordination with next FIR on weather deviation	JAK_2	0	0	0	0	ATMAP	-12.00	118.26	UJU_2	BRISBANE	0.0E+00	
8/02/2023 3:27	E	ATC failed to send boundary time for aircraft	UJU_2	0	0	0	0	PUGER	3.40	100.29	Kuala Lumpur ACC	JAK_2	0.0E+00	
8/02/2023 3:30	E	Late revision of FL to next FIR	JAK_2	0	10	0	0	PUGER	3.40	100.29	Kuala Lumpur ACC	JAK_2	9.1E-11	
8/02/2023 8:40	E	Late revision of arrival time to next FIR	JAK_2	0	0	0	0	BAVUS	0.00	109.00	JAK_2	Singapore ACC	0.0E+00	
14/02/2023 17:09	E	Late transfer to next FIR	UJU_2	0	0	0	0	CAHYO	3.50	133.50	UJU_2	OAKLAND	0.0E+00	
27/02/2023 3:47	E	Late transfer to next FIR	UJU_2	0	0	0	0	SURGA	-0.62	106.52	JAK_2	Singapore ACC	0.0E+00	
27/02/2023 13:50	E	Incorrect FL coordination	JAK_2	0	2	0	3	NOPEK	6.60	94.42	Kuala Lumpur ACC	JAK_2	1.3E-10	
27/02/2023 14:25	E	Incorrect FL coordination	JAK_2	0	6	0	2	NOPEK	6.60	94.42	Kuala Lumpur ACC	JAK_2	1.3E-10	
6/03/2023 7:15	E	Incorrect FL coordination	UJU_2	0	2	0	2	SELSU	1.18	92.00	Colombo ACC	JAK_2	1.3E-10	
10/03/2023 0:10	E	Incorrect FL coordination	UJU_2	0	2	0	0	TARUN	-12.00	116.92	BRISBANE	UJU_2	2.5E-11	
12/03/2023 13:42	E	Incorrect FL coordination	JAK_2	0	2	0	0	ONOX	-12.00	120.88	BRISBANE	UJU_2	1.8E-11	
21/03/2023 12:39	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	BUTPA	-8.55	129.67	BRISBANE	UJU_2	0.0E+00	
24/03/2023 19:54	E	Late transfer to next FIR	JAK_2	0	0	0	0	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	0.0E+00	
25/03/2023 0:05	E	Incorrect FL coordination	JAK_2	0	0	0	0	ARUPA	0.53	108.81	Singapore ACC	JAK_2	0.0E+00	
25/03/2023 4:24	E	Late transfer to next FIR	JAK_2	0	0	0	0	BOLUG	4.00	130.78	MANILA	UJU_2	0.0E+00	
28/03/2023 7:08	E	Incorrect FL coordination	UJU_2	0	2	0	0	PEDNO	4.00	125.35	MANILA	UJU_2	2.5E-11	
29/03/2023 10:15	E	Late revision of FL to next FIR	JAK_2	0	0	0	0	ARUPA	0.53	108.81	JAK_2	Singapore ACC	0.0E+00	
4/04/2023 17:56	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	MOLLY	4.00	123.72	MANILA	UJU_2	0.0E+00	
9/04/2023 0:15	E	Incorrect FL coordination	UJU_2	0	4	0	3	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	2.0E-10	
9/04/2023 6:05	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
12/04/2023 9:34	E	Late transfer to next FIR	JAK_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
18/04/2023 14:00	E	Incorrect FL coordination	UJU_2	0	4	0	1	SUGIK	-2.06	111.10	JAKARTA	UJU_2	1.0E-10	
20/04/2023 3:24	E	Incorrect FL coordination	JAK_2	0	2	0	0	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	1.8E-11	

22/04/2023 8:18	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
23/04/2023 22:45	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	0.0E+00	
9/05/2023 14:45	E	Late transfer to next FIR	JAK_2	0	0	0	0	SADAN	4.00	128.08	MANILA	UJU_2	0.0E+00	
10/05/2023 8:30	E	Late transfer to next FIR	JAK_2	0	0	0	0	BAVUS	0.00	109.00	JAK_2	Singapore ACC		0.0E+00
10/05/2023 9:25	E	Incorrect FL coordination	UJU_2	0	0	0	0	MEMAK	6.00	93.08	JAK_2	Colombo ACC		0.0E+00
23/05/2023 7:51	E	Incorrect FL coordination	UJU_2	0	2	0	0	PEDNO	4.00	125.35	MANILA	UJU_2	2.5E-11	
29/05/2023 2:59	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	MEMAK	6.00	93.08	JAK_2	Chennai ACC		0.0E+00
29/05/2023 3:11	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	MEMAK	6.00	93.08	JAK_2	Chennai ACC		0.0E+00
30/05/2023 0:59	E	Incorrect FL coordination	UJU_2	0	2	0	2	MEMAK	6.00	93.08	JAK_2	Chennai ACC		1.3E-10
31/05/2023 0:34	E	Incorrect FL coordination	JAK_2	0	0	0	0	NIXUL	4.01	92.00	JAK_2	Colombo ACC		0.0E+00
2/06/2023 7:31	E	Late transfer to next FIR	JAK_2	0	0	0	0	MEMAK	6.00	93.08	JAK_2	Chennai ACC		0.0E+00
5/06/2023 8:13	E	Incorrect crossing time coordination	JAK_2	0	0	0	6	SELSE	4.00	126.27	MANILA	UJU_2	2.3E-10	
14/06/2023 0:25	E	Incorrect FL coordination	UJU_2	0	4	0	0	PEDNO	4.00	125.35	MANILA	UJU_2	4.9E-11	
17/06/2023 4:09	E	Incorrect FL coordination	JAK_2	0	0	0	0	NISOK	3.05	92.00	JAK_2	Colombo ACC		0.0E+00
8/07/2023 13:33	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	0.0E+00	
30/07/2023 5:09	E	Incorrect FL coordination	JAK_2	0	0	0	0	POSOD	-3.49	94.17	JAK_2	Melbourne ACC		0.0E+00
31/07/2023 6:36	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
8/08/2023 10:25	E	Incorrect FL coordination	JAK_2	0	2	0	2	NITIP	3.50	133.50	MANILA	UJU_2	9.4E-11	
8/08/2023 19:17	E	Incorrect FL coordination	JAK_2	0	0	0	0	PARDI	-0.57	104.22	JAK_2	Singapore ACC		0.0E+00
8/08/2023 19:35	E	Incorrect FL coordination	UJU_2	0	2	0	2	MEMAK	6.00	93.08	Chennai ACC	JAK_2	1.3E-10	
28/08/2023 1:59	E	Incorrect FL coordination	JAK_2	0	0	0	0	SURGA	-0.62	106.52	JAK_2	Singapore ACC		0.0E+00
1/09/2023 3:04	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
3/09/2023 5:40	E	Incorrect crossing time coordination	UJU_2	0	6	0	1	ANY	-6.97	110.38	JAK_2	UJU_2	1.3E-10	
4/09/2023 15:12	E	Late transfer to next FIR	UJU_2	0	0	0	0	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	0.0E+00	
13/09/2023 0:50	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	KADAR	-0.11	107.73	JAK_2	Singapore ACC		0.0E+00
14/09/2023 0:30	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	

15/09/2023 16:14	E	Incorrect FL coordination	UJU_2	0	4	0	1	NITIP	3.50	133.50	Manila ACC	UJU_2	1.0E-10	
18/09/2023 17:20	E	Incorrect FL coordination	UJU_2	0	5	0	1	NITIP	3.50	133.50	Manila ACC	UJU_2	1.1E-10	
19/09/2023 5:54	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	ANSAX	6.00	95.51	JAK_2	Kuala Lumpur ACC	0.0E+00	
22/09/2023 0:28	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	OKADA	1.57	112.63	JAK_2	Kinabalu ACC	0.0E+00	
24/09/2023 6:12	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
29/09/2023 13:00	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	SELSU	1.18	92.00	Colombo ACC	JAK_2	0.0E+00	
3/10/2023 8:00	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	ARUPA	0.53	108.81	Singapore ACC	JAK_2	0.0E+00	
8/10/2023 9:33	E	Did not coordinate deviation left of track	JAK_2	0	0	0	0	PEDNO	4.00	125.35	MANILA	UJU_2	0.0E+00	
9/10/2023 7:30	E	Incorrect FL coordination	JAK_2	0	4	0	1	MOLLY	4.00	123.72	MANILA	UJU_2	7.4E-11	
14/10/2023 8:15	E	Incorrect crossing time coordination	JAK_2	0	0	0	0	NE	-0.48	104.58	Singapore ACC	JAK_2	0.0E+00	
17/10/2023 20:39	E	Late transfer to next FIR	UJU_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
18/10/2023 7:34	E	Incorrect FL coordination	UJU_2	0	4	0	1	SELSE	4.00	126.27	Manila ACC	UJU_2	1.0E-10	
22/10/2023 1:09	E	Incorrect FL coordination	UJU_2	0	4	0	0	ANY	-6.97	110.38	JAK_2	UJU_2	4.9E-11	
24/10/2023 16:15	E	Late transfer to next FIR	JAK_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
31/10/2023 19:22	E	Did not coordinate deviation	JAK_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
1/11/2023 4:04	E	Incorrect FL coordination	JAK_2	0	2	0	1	GORAI	4.00	120.73	MANILA	UJU_2	5.6E-11	
2/11/2023 8:45	E	Incorrect FL coordination	UJU_2	0	2	0	0	TAVIP	-3.96	110.38	JAK_2	UJU_2	2.5E-11	
3/11/2023 13:13	E	Incorrect FL coordination	UJU_2	0	2	0	0	SPIKO	-4.88	110.42	UJU_2 ACC	JAK_2	2.5E-11	
4/11/2023 4:14	E	Incorrect FL coordination	JAK_2	0	0	0	0	EGATU	-12.00	116.09	UJU_2 ACC	BNE	0.0E+00	
9/11/2023 13:01	E	Incorrect FL coordination	UJU_2	0	2	0	1	MEMAK	6.00	93.08	Chennai ACC	JAK_2	7.6E-11	
17/11/2023 8:52	E	Incorrect FL coordination	UJU_2	0	2	0	0	OSRUT	-0.53	112.29	JAK_2	UJU_2	2.5E-11	
20/11/2023 7:33	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	PEDNO	4.00	125.35	MANILA	UJU_2	0.0E+00	
21/11/2023 1:00	E	Late transfer to next FIR	JAK_2	0	0	0	0	UPRINA			JAK_2	UJU_2 ACC	0.0E+00	
25/11/2023 2:13	E	Incorrect FL coordination	UJU_2	0	2	0	1	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	7.6E-11	
25/11/2023 5:58	E	Did not coordinate deviation	UJU_2	0	0	0	0	GUTEV	-8.07	131.33	UJU_2	BNE	0.0E+00	
30/11/2023 4:43	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	ANSAX	6.00	95.51	Kuala Lumpur ACC	JAK_2	0.0E+00	

1/12/2023 0:19	E	Incorrect FL coordination	UJU_2	0	2	0	1	MEMAK	6.00	93.08	Chennai ACC	JAK_2	7.6E-11	
1/12/2023 2:30	E	Incorrect FL coordination	UJU_2	0	2	0	2	MEMAK	6.00	93.08	Chennai ACC	JAK_2	1.3E-10	
1/12/2023 3:00	E	Incorrect FL coordination	UJU_2	0	2	0	2	MEMAK	6.00	93.08	Chennai ACC	JAK_2	1.3E-10	
1/12/2023 3:38	E	Incorrect FL coordination	UJU_2	0	2	0	2	NIXUL	4.01	92.00	Colombo ACC	JAK_2	1.3E-10	
1/12/2023 4:29	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	ANSAX	6.00	95.51	Chennai ACC	JAK_2	0.0E+00	
4/12/2023 4:47	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
5/12/2023 5:27	E	No flight plan received	UJU_2	0	0	0	0	SELDO	4.00	126.27	UJU_2	UJU_2	0.0E+00	
8/12/2023 0:20	E	Incorrect FL coordination	UJU_2	0	2	0	1	KALUT	-5.97	110.38	UJU_2	JAK_2	7.6E-11	
10/12/2023 5:44	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	SURGA	-0.62	106.52	JAK_2	Singapore ACC		0.0E+00
10/12/2023 11:25	E	Incorrect FL coordination	UJU_2	0	0	0	0	BIDOR	4.00	131.50	UJU_2	MANILA	0.0E+00	
10/12/2023 13:30	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	MEMAK	6.00	93.08	Chennai ACC	JAK_2	0.0E+00	
15/12/2023 6:10	E	Incorrect crossing time coordination	UJU_2	0	0	0	0	SALAX	2.21	101.56	Kuala Lumpur ACC	JAK_2	0.0E+00	
15/12/2023 6:46	E	Late transfer to next FIR	UJU_2	0	0	0	0	BOLUG	4.00	130.78	MANILA	JAK_2	0.0E+00	
16/12/2023 19:14	E	No transfer	UJU_2	0	0	0	0	SELDO	4.00	126.27	MANILA	JAK_2	0.0E+00	
20/12/2023 4:20	E	Incorrect FL coordination	UJU_2	0	2	0	1	TAVIP	-3.96	110.38	JAK_2	UJU_2	7.6E-11	
20/12/2023 8:46	E	Incorrect FL coordination	UJU_2	0	0	0	0	ANITO	-0.28	104.87	Singapore ACC	JAK_2	0.0E+00	
22/12/2023 8:40	E	Incorrect FL coordination	JAK_2	0	0	0	0	ANY	-6.97	110.38	JAK_2	UJU_2	0.0E+00	
22/12/2023 13:44	E	No transfer - AIDC failure	UJU_2	0	0	0	0	RUPKA	-5.48	110.36	JAK_2	UJU_2	0.0E+00	
22/12/2023 14:23	E	Incorrect FL coordination	UJU_2	0	4	0	1	TANUR	-2.24	110.96	JAK_2	UJU_2	1.0E-10	
24/12/2023 4:02	E	No coordination	UJU_2	0	0	0	0	PEDNO	4.00	125.35	MANILA ACC	UJU_2	0.0E+00	
25/05/2023 0:17	F		JAK_2	0	0	0	3	BA	-6.99	111.42	JAKARTA		1.1E-10	
13/06/2023 4:14	F	No coordination	JAK_2	0	0	0	0	SUGIK	-2.06	111.10	JAKARTA		0.0E+00	
4/07/2023 22:50	F	No coordination	JAK_2	0	0	0	2	PUPIT	-12.00	115.15	JAKARTA		7.6E-11	
17/07/2023 11:46	F	No coordination	JAK_2	0	0	0	1	NITIP	3.50	133.50	UJU_2		3.8E-11	
26/08/2023 0:57	F	FPL and AIDC failed	JAK_2	0	0	0	1	ANY	-6.97	110.38	UJU_2		3.8E-11	
11/09/2023 0:05	F	AIDC failed	UJU_2	0	0	0	0	BUTPA	-8.55	129.67	UJU_2		0.0E+00	

25/05/2023 0:17	J		JAK_2	0	2	0	1	BA	-6.99	111.42			5.6E-11	
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date time	summary		fl cross same	fl cross opp	min same	min opp	location	lat	lon	transfer	accept	risk
1/01/2023 8:31	Flight crew initially failed to descend as cleared to STAR	A	0	0	0	0	MARLN	34.035	152.067			0.00E+00
5/03/2023 20:01	Flight crew failed to descend as cleared	A	0	0	0	4	GIVID	39.237	150.46			8.80E-11
14/03/2023 3:32	Pilot issued requirement to CLIMB BY 0330 but was unable (too heavy) and failed to notify ATC of inability to climb.	A	0	0	0	2	CIN 330/60	16.719	123.331			4.40E-11
20/04/2023 23:30	Pilot failed to climb in time as per request CLIMB BY	A	0	0	0	0.5	EGAVI 300/100	17.647	107.529			3.20E-11
8/06/2023 11:25	Pilot unable to climb (heavy) according to CLIMB BY request and this was communicated to ATC.	A	0	1	0	0.5	GOOTA	22.027	118.322			1.60E-11
9/08/2023 2:30	Aircraft on block clearance failed to respond to DESCEND BY instruction by ATC	A	0	1	0	2	DOMOM	16.437	115.133			4.90E-11
20/08/2023 5:42	Flight crew failed to reach altitude in time.	A	1	0	1	0	TESSI 180/30	29.952	152.313			2.70E-12
24/08/2023 11:12	Flight crew failed to climb as per clearance	A	0	0	0	0	VANVA	22.358	149.865			0.00E+00
31/08/2023 4:46	Flight crew failed to climb as per clearance	A	0	0	0	0	NIPOK	-9.928	155			0.00E+00
29/09/2023 9:50	Aircraft failed to CLIMB BY as instructed	A	0	0	0	1	SOPAT 170/160	18.912	113.496			1.00E-11
4/11/2023 4:14	Flight crew failed to climb as per clearance	A	0	0	0	0	EGATU	-12	116.093			0.00E+00
23/11/2023 19:57	Aircraft failed to CLIMB BY as instructed	A	0	0	0	0	APOVU 135/140	-3.657	83.65			0.00E+00
10/03/2023 1:53	Flight crew was denied a requested clearance but proceeded to climb without clearance	B	1	0	1	0	TW 176/35	31.649	150.878			2.20E-12
18/08/2023 2:58	Flight crew descended without clearance	B	1	0	1	0	NOBAR	33.786	151.74			2.20E-12
30/08/2023 9:28	Flight crew descended without clearance	B	1	0	0.25	0	NIROK	25.744	151.492			9.50E-13

6/09/2023 9:00	Pilot misheard FL and attempted climb to 370 not correct 360.	B	0.5	0	0.5	0	ENDOV 180/40	- 24.737	117.939			1.10E-12
30/11/2023 21:47	Flight crew descended without clearance due to pilot unfamiliar with procedures.	B	0.5	0	0.5	0	BORTO	- 36.393	140.742			1.10E-12
3/01/2023 4:04	Incorrect block clearance reported by pilot	C	0	0	0	0	YPAD	- 34.945	138.531			0.00E+00
17/01/2023 2:10	Pilot reported incorrect block clearance	C	0	0	0	0	PUGUT	- 27.717	131.887			0.00E+00
21/01/2023 8:03	Pilot failed to notify updated time at FIR boundary and not noticed by NFFF	C	0	0	0	0	TEKEP 0/90	- 28.986	163			0.00E+00
18/04/2023 11:29	Pilot failed to recognise change in FL block clearance despite readback.	C	0	0	0	0	SOPAT	- 17.867	115.4			0.00E+00
25/05/2023 14:00	Pilot requested block clearance which was denied - but the pilot then reported the block clearance.	C	0	0	0	0	YBRL 300/55	- 15.613	135.48			0.00E+00
10/06/2023 14:10	Pilot used incorrect block clearance.	C	0	0	0	0	BOU	- 22.915	139.907			0.00E+00
9/07/2023 3:05	Aircraft flying in block without clearance	C	0	0	0	0	KAMBI 270/40	- 34.132	134.537			0.00E+00
8/08/2023 12:38	Flight crew failed to adhere to correct block - assuming 320-340 not 330-340.	C	0	0	0	0	POLEV	-26.92	138.169			0.00E+00
13/08/2023 8:45	Pilot reported being on a block clearance despite this being cancelled.	C	0	0	0	0	AGUST	- 13.629	131.204			0.00E+00
15/08/2023 7:26	CLF was block clearance 410-430 but aircraft reported only FL 410.	C	0	0	0	0	YWBR 270/110	- 26.114	124.546			0.00E+00
4/09/2023 15:51	Pilot reported block clearance 360-390 instead of correct 370-390.	C	0	0	0	0	SCHEE	- 22.985	128.868			0.00E+00
1/11/2023 19:36	Pilot reported block clearance of 390 - 410 despite previously reporting the correct 390 - 400 block clearance. Aircraft never above 400.	C	0	0	0	0	MIGAX	- 16.029	134.446			0.00E+00
2/11/2023 16:15	Pilot reported block clearance of 370 - 390 with correct block of 380 - 390. Aircraft never below 380.	C	0	0	0	0	OKIBU	- 18.171	117.361			0.00E+00
9/11/2023 21:49	Pilot reported block clearance of 370 - 390 with correct block of 380 - 390.	C	0	0	0	0	KALUG	-25.9	136.725			0.00E+00
7/12/2023 15:21	Pilot reported block clearance of 360 - 380 with correct block of 370 - 380.	C	0	0	0	0	SCHEE	- 22.985	128.868			0.00E+00
22/12/2023 3:30	Pilot reported a block clearance despite this being cancelled.	C	0	0	0	0	BORVI	-27.38	115.618			0.00E+00
4/01/2023 2:19	ATC issued incorrect block clearance	D	0	0	0	0	WINCH	- 34.515	136.781			0.00E+00
30/04/2023 0:20	ATC issued incorrect FL due to conflict	D	0	0	0	0	BOLAM	- 34.982	141.47			0.00E+00
30/04/2023 5:03	ATC issued incorrect FL due to conflict	D	0	0	0	0	OSOTO	- 18.121	116.598			0.00E+00

11/05/2023 5:11	ATC issued incorrect FL due to conflict	D	0	0	1	0	MAXEM	34.635	142.556			1.60E-12
15/05/2023 1:50	ATC issued incorrect FL due to conflict	D	0	0	0	0.5	ADMAR	30.323	151.912			1.10E-11
24/05/2023 6:27	ATC issued incorrect FL due to conflict	D	0	0	0	6	ADMAR 295/40	30.039	151.216			1.30E-10
26/06/2023 1:42	ATC failed to issue instruction.	D	0	0	0	10	SASRO	38.581	163			1.70E-10
26/06/2023 7:15	ATC issued incorrect flight level	D	0	0	0	0	YPKS 180/20	33.465	148.239			0.00E+00
3/07/2023 4:09	ATC issued incorrect flight level	D	0	0	0.5	0	YBCG	28.164	153.505			8.00E-13
8/09/2023 0:34	Atc issued incorrect flight level clearance	D	0	0	0	0	YSDU	32.217	148.575			0.00E+00
23/10/2023 5:08	ATC failed to resolve conflict of two aircraft on the same flight level	D	0	0	0	1	NIPIN	32.286	149.07			1.00E-11
25/10/2023 10:09	ATC failed to correctly change CLF in system	D	0	0	0	0	KADOM	33.711	150.3			0.00E+00
15/11/2023 3:45	ATC gave incorreft FL due to callsign confusion.	D	0	0	0	0	YNBR	30.319	149.827			0.00E+00
14/12/2023 0:54	ATC ISSUED INCORRECT FLIGHT BLOCK LEVEL CLEARANCE	D	0	0	0.5	0	GIVEB	31.232	119.356			8.00E-13
14/12/2023 20:48	Confusion regarding instructed flight level clearance	D	0	0	0	0	YPKA 324/140	18.811	115.328			0.00E+00
1/02/2023 23:47	ATC did not coordinate aircraft's descent	E	0	0	0	0	ENTRA	33.583	151.697	MELBOURN E	BRISBANE	0.00E+00
9/02/2023 16:00	ATC coordinated incorrect flight level	E	0	0	0	0	ATMAP	-12	118.255	UJUNG	BRISBANE	0.00E+00
13/04/2023 4:27	Confusion regarding assumed flight level clearance prior to boundary with pilot at FL 370 not FL 350 reported.	E	0	0	0	0	LAMOB	-12	108.883			0.00E+00
17/04/2023 5:16	ACC failed to coordinate FL to next FIR in time.	E	0	0	0	0	ISMUD	-9.63	126.45	BRISBANE	UJUNG	0.00E+00
5/07/2023 10:57	Atc late in coordination on flight level clearance.	E	0	0	0	0	SASRO 290/77	38.131	161.472	BRISBANE	NZZO	0.00E+00
18/07/2023 0:01	Atc coordination on incorrect cleared flight level	E	0	0	0	0	ELBIS	-9.088	127.728	UJUNG	BRISBANE	0.00E+00
30/07/2023 1:54	Atc did not enter accurate cleared flight level	E	0	0	0	0	KAPSO	-12	146.717	BRISBANE	AYPY	0.00E+00
6/10/2023 3:39	ATC coordinated 26 minutes prior to boundary not 30 minutes prior.	E	0	0	0	0	DADAR 300/210	-0.239	76.426	COLOMBO	BRISBANE	0.00E+00
19/10/2023 0:02	ATC coordinated incorrect flight level due to failure of CPDLC to aircraft.	E	0	0	0	13	DOGAR	-2	87.85	COLOMBO	MELBOURN E	8.30E-10

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13/11/2023 0:11	ATC coordinated 17 minutes prior to boundary not 30 minutes prior.	E	0	0	0	0	YLHI	- 31.538	159.077	BRISBANE	NZZO	0.00E+00
10/12/2023 17:27	Late coordination by ATC.	E	0	0	0	0	MEPAB 180/80	- 22.718	163	NFFF	BRISBANE	0.00E+00
19/12/2023 19:13	ATC coordinated incorrect flight level	E	0	0	0	0	YLHI	- 31.538	159.077	NZZO	BRISBANE	0.00E+00
2/07/2023 18:02	Coordination failure due to technical issue	F	0	0	0	0	ONOX A	-12	120.879	UJUNG	BRISBANE	0.00E+00
13/07/2023 9:23	Engine failure	G	1	0	1	0	BORTO 90/20	- 36.392	141.155			2.20E-12
8/04/2023 5:45	Aircraft descended 400 ft due to turbulence with ATC notified by HF.	I	0	0	0	0.2	YBRM 300/225	- 16.039	118.856			4.40E-12
30/06/2023 8:55	Pilot climbed in response to TCAS and possibly turbulence without clearance.	J	1	0	0.5	0	SADLO	- 32.788	150.964			1.40E-12
13/11/2023 1:00	Aircraft not HF equipped as reported.	M	0	0	0	0	VIROB	-11.43	128.053			0.00E+00