

AAMA update for ISPACG

4-6 June 2024

Contents

Overview of AAMA activities

Australian airspace monitoring agency

- Up to date and on track
 - Altimetry System Error (ASE) monitoring
 - RVSM approvals and monitoring
- Progressing and to be completed by RASMAG (August 18, 2024)
 - Collision risk assessments for RVSM airspace
 - PBCS airspace assessments
- PBCS individual aircraft monitoring and assessment – by end 2024
- PBCS mandate (approval system) – by end 2025

- The AAMA is in the process of being restructured having been moved to the Risk Intelligence team.
- Two new staff are being recruited to assist with AAMA activities
- Work is progressing well in updating our processes and procedures.

Melbourne, Brisbane, Port Moresby Honiara, Nauru RVSM risk assessment

1 Jan – 31 Dec 2022; as presented to RASMAG/28

Brisbane, Honiara, Melbourne, Nauru, Port Moresby

- Technical risk of 0.077×10^{-9}
- Operational risk of 1.42×10^{-9}
- Total risk of 1.50×10^{-9}
- All below the TLS

LHD category	LHD category description	Number of reported LHDs	Duration of LHDs (minutes)	Number of levels crossed
A	Flight crew failing to climb/descend the aircraft as cleared	8	14.5	0
B	Flight crew climbing/descending without ATC clearance	11	10	0
C	Incorrect operation or interpretation of airborne equipment	11	0	0
D	ATC system loop error	5	6	0
E	Coordination errors in the ATC-to-ATC transfer or control responsibility as a result of human factors issues	32	6	0
F	Coordination errors in the ATC-to-ATC transfer or control responsibility as a result of equipment outage or technical issues	1	0	0
G	Deviation due to aircraft contingency event leading to sudden inability to maintain assigned flight level	0	0	0
H	Deviation due to airborne equipment failure leading to unintentional or undetected change of flight level	0	0	0
I	Deviation due to turbulence or other weather-related cause	4	2.5	0
J	Deviation due to TCAS resolution advisory; flight crew correctly following the resolution advisory	2	1	0

Month	Number of reported LHDs	Number of non-zero-duration LHDs	LHD duration (minutes)	Number of levels crossed
2022				
January	4	1	1	0
February	0	0	0	0
March	6	0	0	0
April	7	5	6.5	0
May	3	2	4	0
June	6	4	4	0
July	3	2	2	0
August	8	4	8	0
September	6	3	2.5	0
October	5	2	2	0
November	14	6	6	0
December	12	4	4	0
Total	74	33	40	0

Table 1: Summary of LHD occurrences by month for the period 1 January 2022 to 31 December 2022. Unusual values are highlighted.

Indonesian RVSM risk assessment

1 Jan – 31 Dec 2022; as presented to RASMAG/28

- Technical risk of 0.133×10^{-9}
- Operational risk of 3.10×10^{-9}
- Total risk of 3.24×10^{-9}
- All below the TLS

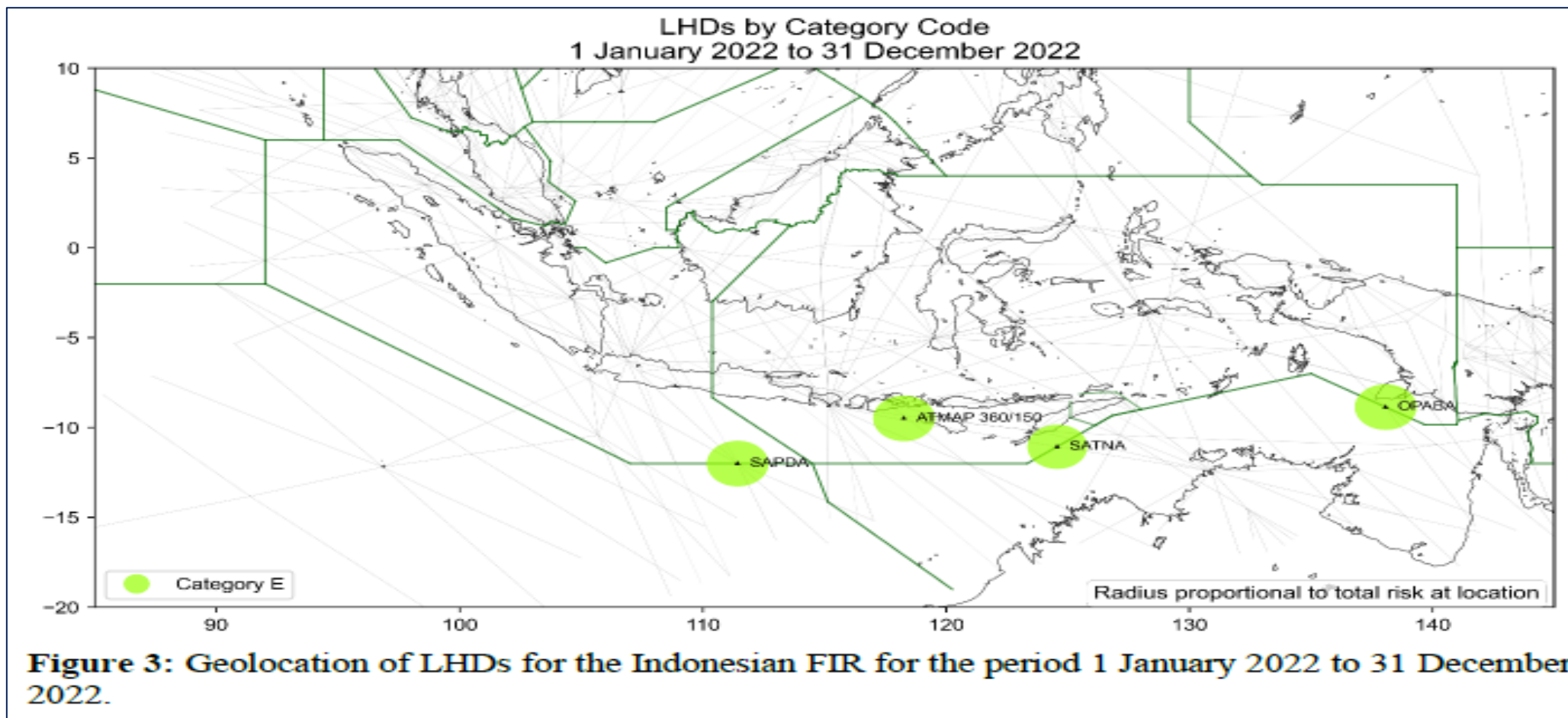
LHD category	LHD category description	Number of reported LHDs	Duration of LHDs (minutes)	Number of levels crossed
A	Flight crew failing to climb/descend the aircraft as cleared	3	4	0
B	Flight crew climbing/descending without ATC clearance	3	4	0
C	Incorrect operation or interpretation of airborne equipment	0	0	0
D	ATC system loop error	0	0	0
E	Coordination errors in the ATC-to-ATC transfer or control responsibility as a result of human factors issues	53	23	0
F	Coordination errors in the ATC-to-ATC transfer or control responsibility as a result of equipment outage or technical issues	2	1	0

Month	Number of reported LHDs	Number of non-zero-duration LHDs	LHD duration (minutes)	Number of levels crossed
2022				
January	2	0	0	0
February	2	1	1	0
March	6	4	4	0
April	0	0	0	0
May	4	1	2	0
June	7	3	3	0
July	6	3	4	0
August	5	4	4	0
September	5	3	3	0
October	10	2	1	0
November	7	4	5	0
December	7	5	5	0
Total	61	30	32	0

Table 1: Summary of LHD occurrences by month for the period 1 January 2022 to 31 December 2022.

Indonesian RVSM risk assessment

LHD Hotspot Map



PBCS

Reported to ISPACG FANS1A meeting

- Data reported to ISPACG FANS1A meeting
- 2023 data – delivered 26 Feb 2024.

REQUIRED COMMUNICATIONS PERFORMANCE										
Region	ISPACG									
Performance Criteria	RCP240									
Time Period	2023 January-June					2023 July - December				
Colour Key ■ Meets Criteria ■ 99.0%-99.89% ■ Under Criteria	No. Messages	ACP Criteria		ACTP Criteria		No. Messages	ACP Criteria		ACTP Criteria	
		95%	99.90%	95%	99.90%		95%	99.90%		
		% <= 180sec	% <= 210sec	% <= 120sec	% <= 150sec		% <= 180sec	% <= 210sec	% <= 120sec	% <=150sec
Aggregate All RGS										
KZAK										
NFFF	10739	99.43%	99.66%	99.65%	99.73%	6856	99.64%	99.75%	99.72%	99.78%
NTTT	9370	99.55%	99.59%	99.80%	99.83%	9848	99.63%	99.70%	99.77%	99.80%
NZZO	78677	99.07%	99.36%	99.53%	99.71%	84773	99.13%	99.40%	99.49%	99.65%
YBBB	31567	99.53%	99.67%	99.54%	99.70%	36095	99.45%	99.67%	99.45%	99.60%
YMMM	38482	99.44%	99.60%	99.45%	99.62%	39375	99.69%	99.81%	99.71%	99.80%

REQUIRED SURVEILLANCE PERFORMANCE						
Region	ISPACG					
Performance Criteria	RSP180					
Time Period	2023 January-June			2023 July-December		
Colour Key ■ Meets Criteria ■ 99.0%-99.89% ■ Under Criteria	No. Messages	Criteria		No. Messages	Criteria	
		95%	99.90%		95%	99.90%
		% <= 90sec	% <= 180sec		% <= 90sec	% <= 180sec
Aggregate All RGS						
KZAK						
NFFF	271083	99.11%	99.61%	197629	98.99%	99.53%
NTTT	95276	99.58%	99.80%	103928	99.56%	99.82%
NZZO	414330	98.97%	99.70%	471687	98.81%	99.64%
YBBB	1116402	99.52%	99.83%	1286584	99.50%	99.82%
YMMM	846180	99.05%	99.55%	913946	99.50%	99.81%

Thank you