



ICAO

International Civil Aviation Organization

The Fourth Meeting of the South Asia, Indian Ocean and Southeast Asia ATM Coordination Group (SAIOSEACG/4)

Bangkok, Thailand, 18 – 21 March 2025

Agenda Item 3: Review of Current Operations and Problem Areas

APPLICATION OF ATC SEPARATION MINIMUMS

(Presented by Secretariat)

SUMMARY

This paper presents information on the Seamless ANS survey conducted to determine which Air Traffic Control (ATC) separation minimums were being applied within the Asia/Pacific Region.

1. INTRODUCTION

1.1 In an endeavour to track the effectiveness of the Seamless Air Navigation Services (ANS) element implementation related to the use of tactical (ATC surveillance-based and datalink-supported) ATC separation minimums, the ICAO Regional Office issued State Letters since 2017 subsequently supported by **Conclusion ATM/SG 6-1: ATC Separations Standards Survey**, **Conclusion ATM/SG/10-1: Revised Reporting Date for ATM Regional Plans' Implementation Status Monitoring** and **Conclusion ATM/SG/11-2: Revised Annual APAC Regional Survey of ATC Separation Standard**.

1.2 The survey requested respondents to advise the minimum horizontal separation minimums authorized for use by controllers within Category R (remote en-route airspace with Air Traffic Services (ATS) HF or CPDLC communications and outside the coverage of ground-based surveillance coverage), Category T (terminal operations serviced by direct ATS communications and surveillance) and Category S (serviced (or potentially serviced) en-route airspace – by direct (not dependent on a Communication Service Provider (CSP)) ATS communications and surveillance, and the minimum horizontal spacing authorized by Air Traffic Services Letter of Agreement (ATS LOA) or other instruments on each of your Flight Information Region (FIR) inbound transfer of Control (TOC) points. Surveying the TOC points' spacing parameter is a step forward in helping to identify the 'bottleneck' FIR Boundary TOC points in the region. In addition, it was asked whether your Administration applied a Flight Level Allocation Scheme within its FIR(s) [no closer than 50NM to the FIR boundary]. The survey is found at the ICAO APAC webpage, APAC eDocuments>>ATM>>Seamless ANS Plan.

1.3 The specific parts from the *Asia/Pacific Seamless ANS Plan* being referred to in the survey were:

7.37 All ATC units should authorise the use of the horizontal separation minima stated in ICAO Doc 4444 (PANS ATM), or as close to the separation minima as practicable, taking into account such factors as:

- a) the automation of the ATM system, including automated hand-off between sectors;
- b) the capability of the ATC communications system; the performance of the ATS surveillance system, including data-sharing or overlapping coverage at TOC points; and

- c) *ensuring the competency of air traffic controllers to apply the full tactical capability of ATS surveillance systems.*

Note 1: the delivery of ATC services should be based primarily on the CNS/ATM capability. When using Annex 10 compliant ATS surveillance, 5NM (enroute) or 3NM (terminal) surveillance-based separations should be authorised within ATC sectors. At the TOC points in such environments, 5-10NM should be authorised with auto hand-off and surveillance data-sharing or overlapping coverage at the TOC point, and 5-20NM without auto hand-off, as determined by an appropriate safety assessment.

Note 2: the efficacy, continuity and availability of ATM services should be supported by adherence with regional planning and guidance material regarding ATM automation and ATM contingency systems (regarding ATM contingency operations, refer to the Regional ATM Contingency Plan).

7.38 *Priority for FLAS level allocations should be given to higher density ATS routes over lower density ATS routes. FLAS should comply with Annex 2, Appendix 3a unless part of an OTS. FLAS other than OTS should only be utilised for safety and efficiency reasons within:*

- a) Category R *airspace with the agreement of all ANSPs that provide services:*

- *within the airspace concerned; and*
- *within adjacent airspace which is affected by the FLAS; or*

- b) Category S *airspace with the agreement of all ANSPs that provide services:*

- *where crossing track conflicts occur within 50NM of the FIRB; and*
- *ATS surveillance coverage does not overlap the FIRB concerned, or ATS surveillance data is not exchanged between the ATC units concerned.*

2. DISCUSSION

Survey

2.1 The survey questions circulated were expected to provide greater clarity on the separation minimums used in the region. Q1 surveyed Remote, Surveillance and Terminal airspace separations within the airspace of APAC Administrations, Q2 captured the separation minimums for only inbound flights at FIR TOC points and Q3 covered FLAS.

2.2 The latest responses from Asia/Pacific Administrations to the latest survey are provided in **Attachment A** and **Attachment B**. The data in **Attachment A** shows the responses from Q1 and Q3 of the survey, the green text indicates compliance with the *Asia/Pacific Seamless ANS Plan*'s expectations, while red text represents non-compliance. Whereas **Attachment B** shows all reported inbound TOC points from Q2 and its compliance to the Seamless ANS Plan version 4.0.

2.3 As of 3 March 2025, the responses to the latest survey decreased from 15 to 12 (compared to last reporting period). **Table 1** presents the list of submission by States from 2019 to 2025. Some States/Administrations did not submit any data since 2017.

Table 1 : Responses for ATC separation survey, 2019 - 2025

State/Administration	2019	2020	2021	2022	2023	2024	2025
Afghanistan							
Australia	Yes	Yes	Yes	Yes		Yes	
Bangladesh				Yes			Yes

State/Administration	2019	2020	2021	2022	2023	2024	2025
Bhutan	Yes						
Brunei Darussalam							
Cambodia	Yes	Yes		Yes		Yes	
China	Yes						
Cook Islands					Yes		
DPR Korea							
Fiji	Yes			Yes	Yes	Yes	Yes
French Polynesia	Yes						
Hong Kong, China	Yes	Yes	Yes	Yes	Yes	Yes	Yes
India	Yes			Yes	Yes	Yes	
Indonesia	Yes	Yes		Yes	Yes	Yes	
Japan	Yes	Yes		Yes	Yes		Yes
Kiribati							
Lao PDR	Yes						
Macao, China		Yes	Yes	Yes	Yes		
Malaysia	Yes		Yes	Yes		Yes	Yes
Maldives	Yes		Yes	Yes			
Marshall Islands							
Micronesia							
Mongolia	Yes			Yes	Yes	Yes	
Myanmar	Yes			Yes			
Nauru							
Nepal			Yes	Yes	Yes		Yes
New Caledonia							
New Zealand	Yes				Yes	Yes	Yes
Pakistan	Yes		Yes	Yes	Yes	Yes	Yes
Palau							
Papua New Guinea	Yes	Yes					
Philippines	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Republic of Korea	Yes	Yes	Yes	Yes	Yes	Yes	
Samoa							
Singapore	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Solomon Islands							
Sri Lanka	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Thailand	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Timor-Leste							
Tonga	Yes						
Tuvalu							
USA	Yes	Yes	Yes	Yes	Yes	Yes	
Vanuatu							
Viet Nam	Yes	Yes	Yes	Yes	Yes	Yes	

Analysis

2.4 The analysis of Q1 of the survey are presented separately for the three categories of airspaces namely Category R, Category S and Category T in **Figure 1**, **Figure 2** and **Figure 3** respectively. The figures provide an indication, as at 3 March 2025, of the efficiency of ATC spacing between aircraft at the same level as it is theoretically being applied within FIRs and inbound at FIR TOC Points respectively. The criteria used the analysis of Q1 are as follows:

- Category R - Acceptable standard: ≤ 50 NM
- Category S - Acceptable standard: 5 NM
- Category T - Acceptable standard: 5 NM

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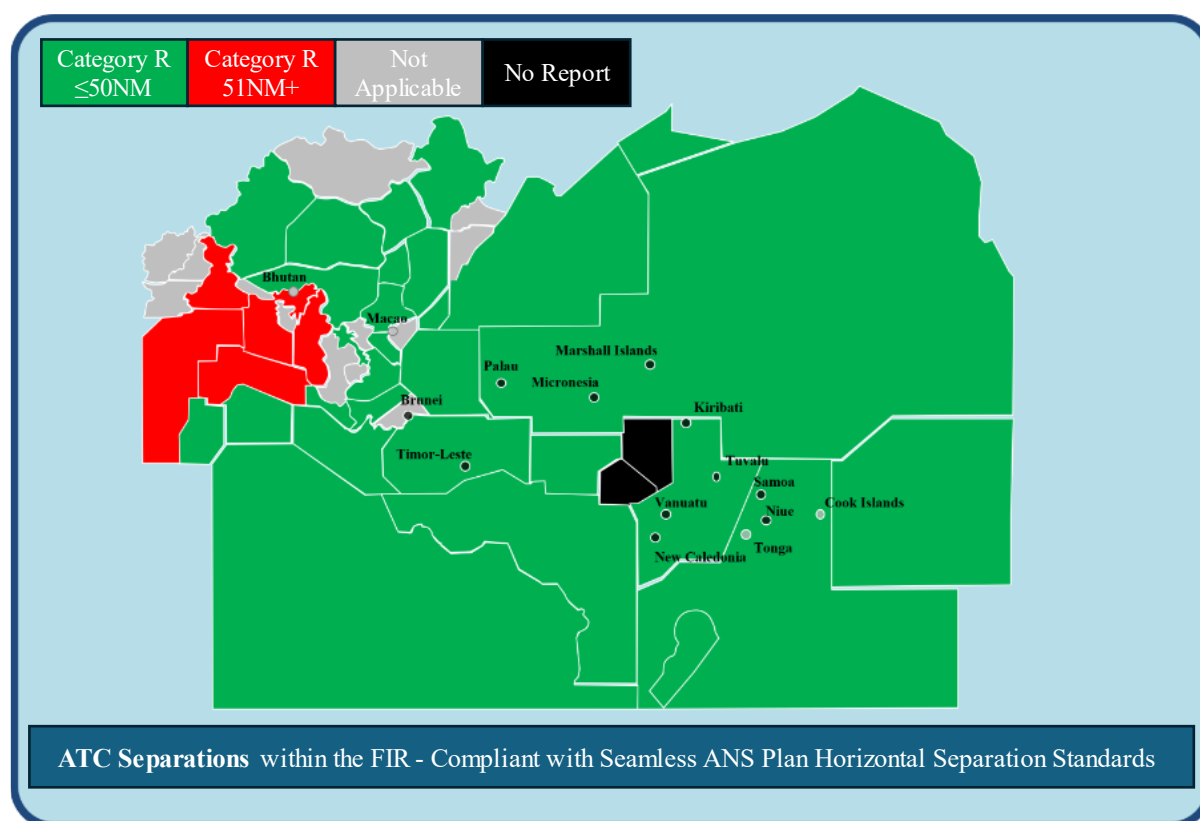


Figure 1: Category R Horizontal Separation Minimums within the FIR

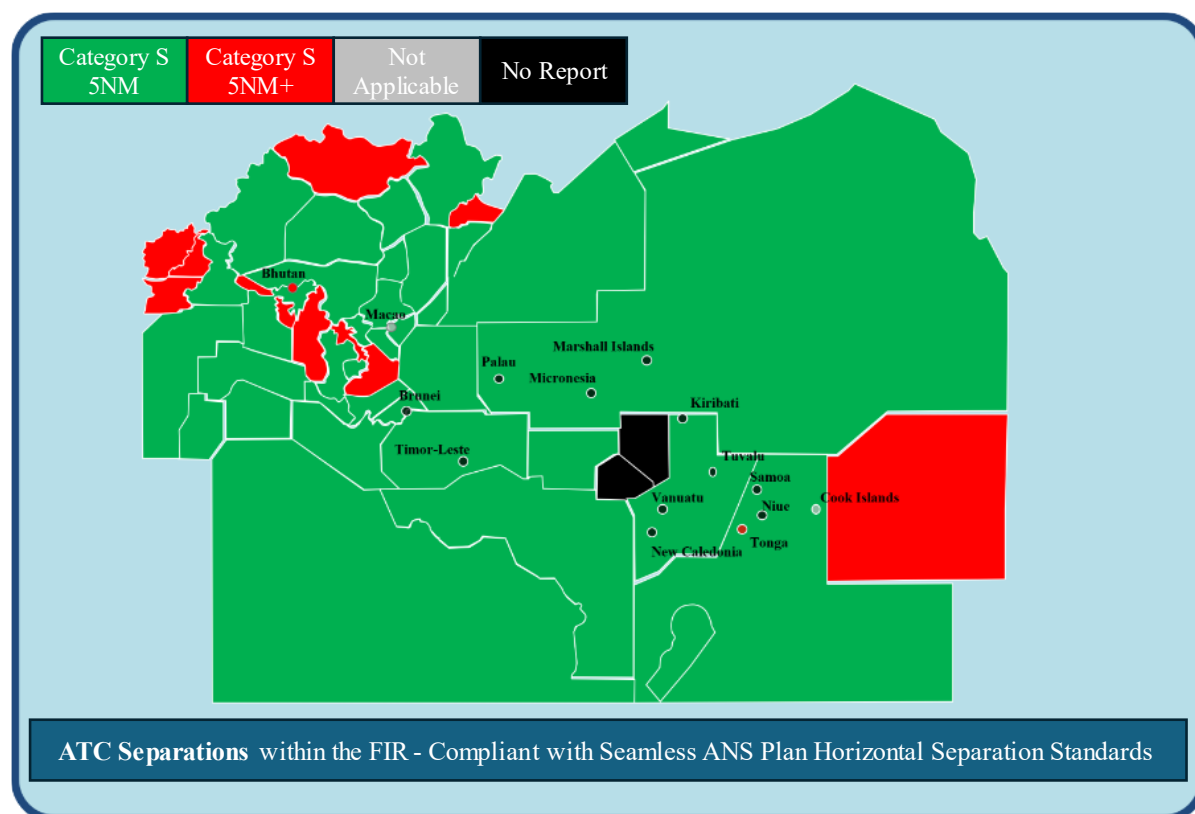


Figure 2: Category S Horizontal Separation Minimums within the FIR

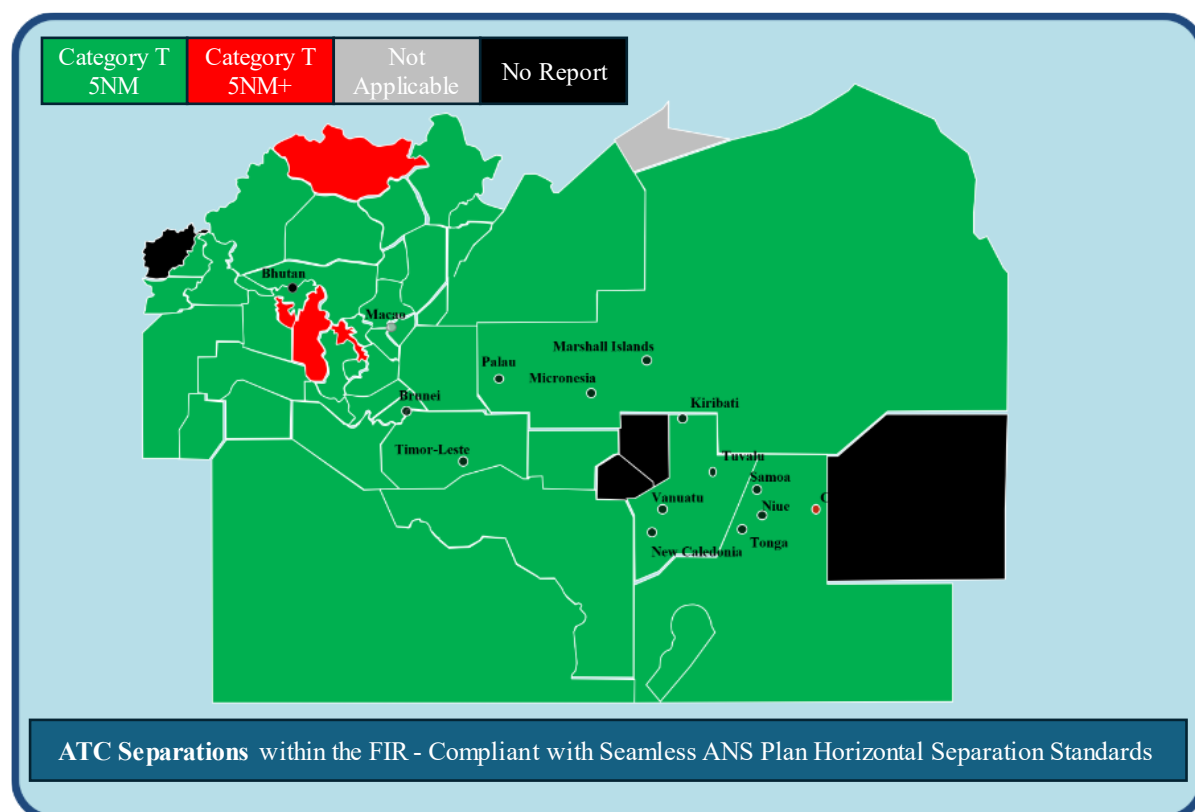


Figure 3: Category T Horizontal Separation Minimums within the FIR

2.5 Q1 requested the minimum horizontal separation standard within State/Administration's FIR namely Category R, Category S and Category T airspace. 39% (17 of 44) of APAC States and Administrations have all categories of airspace within the FIR with minimum separation compliant with the APAC Seamless ANS Plan.

2.6 States that utilize more than 5NM in Category S airspace:

Afghanistan, Bangladesh, Bhutan, DPR Korea, French Polynesia, Lao PDR, Mongolia, Myanmar, Nepal, Pakistan, Tonga, and Viet Nam.

2.7 States that utilize more than 5NM in Category T airspace:

Bangladesh, Cook Islands, Lao PDR, Mongolia, Myanmar and Nepal.

2.8 Q2 of the survey looked at three categories of separations at Inbound FIR TOC points shown below and the total number of TOC points surveyed this year. The analysis of Q2 of the survey are presented separately for the three categories in **Figure 4**, **Figure 5** and **Figure 6** respectively.

Q2 Criteria

- Category R/S → R TOC- Acceptable standard: ≤ 50 NM
- Category R → S TOC - Acceptable standard: ≤ 50 NM
- Category S → S TOC - Acceptable standard: ≤ 10 NM

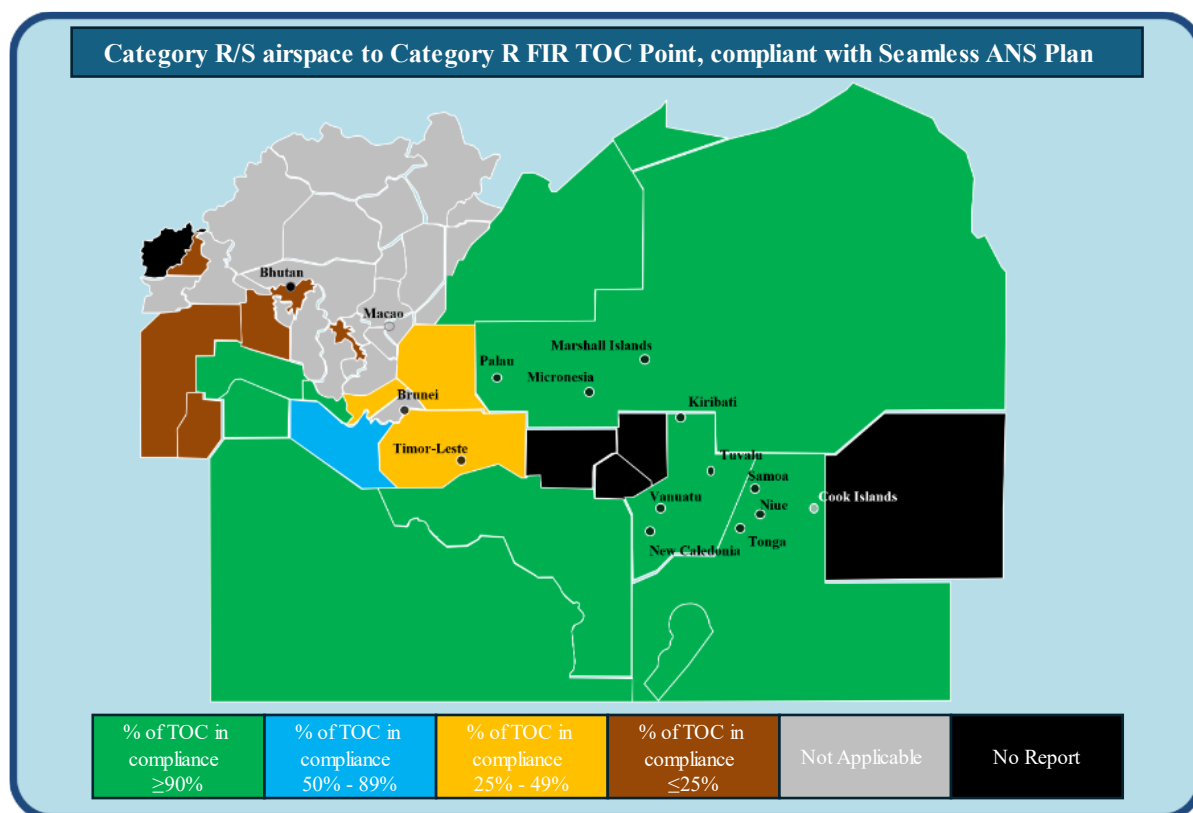


Figure 4: Category R/S → R TOC ATC Horizontal Spacing at Inbound FIR TOC Points

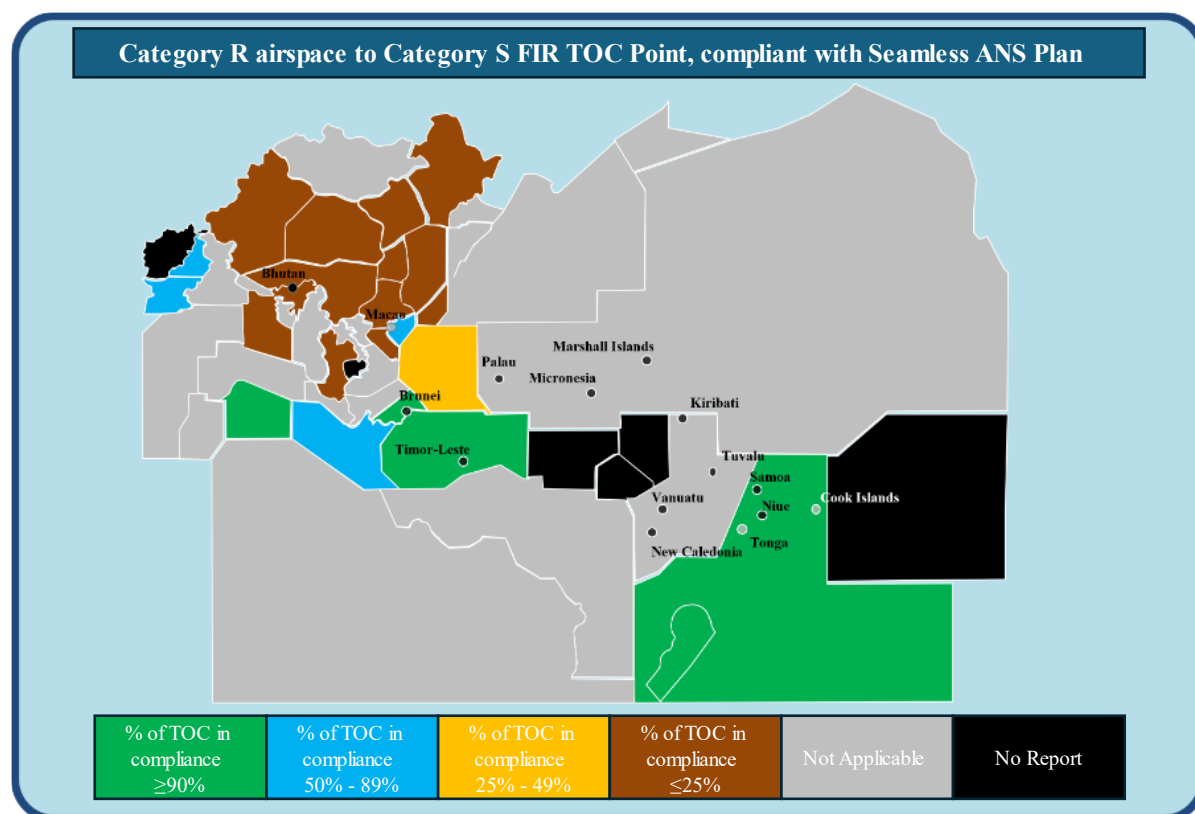


Figure 5: Category R $\rightarrow$ S TOC ATC Horizontal Spacing at Inbound FIR TOC Points

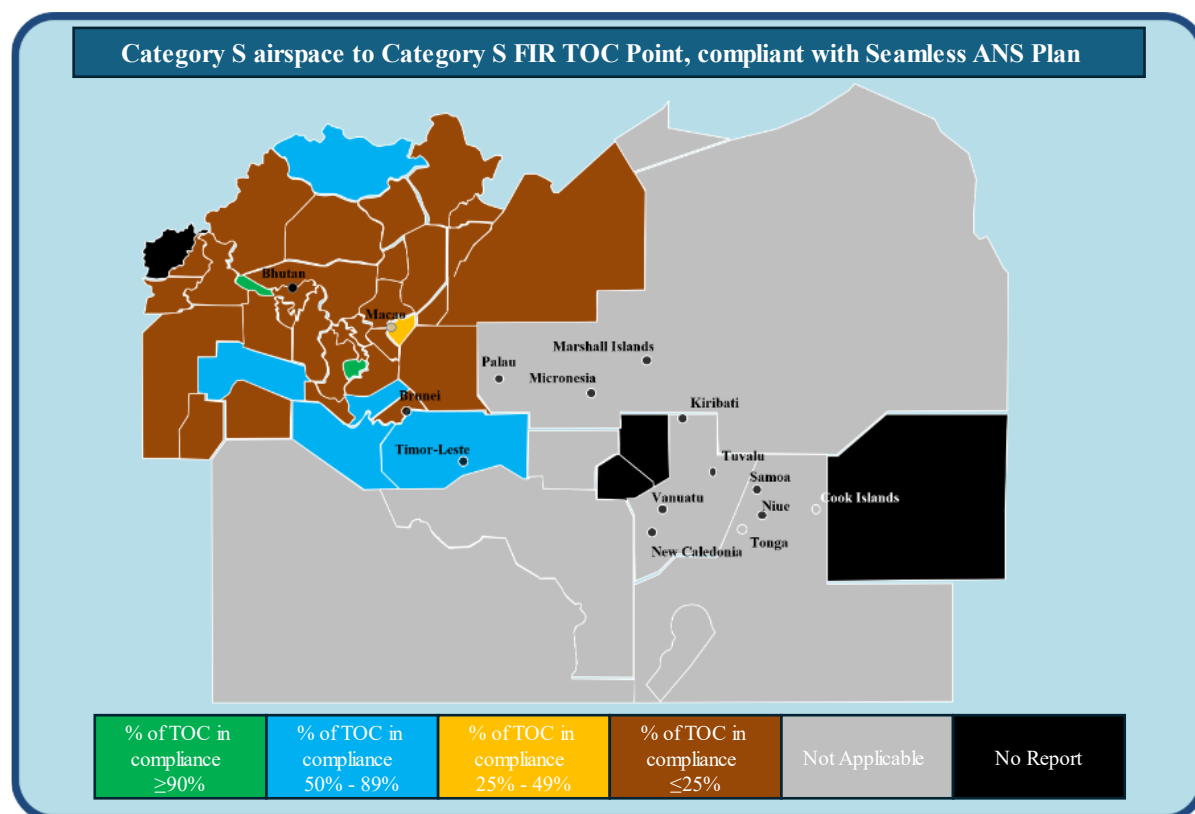


Figure 6: Category S $\rightarrow$ S TOC ATC Horizontal Spacing at Inbound FIR TOC Point

2.9 Only five States/Administrations achieved more than or equals to 90% of the total inbound FIR TOC points compliant with the Seamless ANS plan for all applicable categories.

Australia, Cambodia, Fiji, New Zealand and the United States.

2.10 The further analysis of the number of compliance and incompliance of the three categories of inbound TOC by applicable States/Administrations is shown in **Figure 7**.

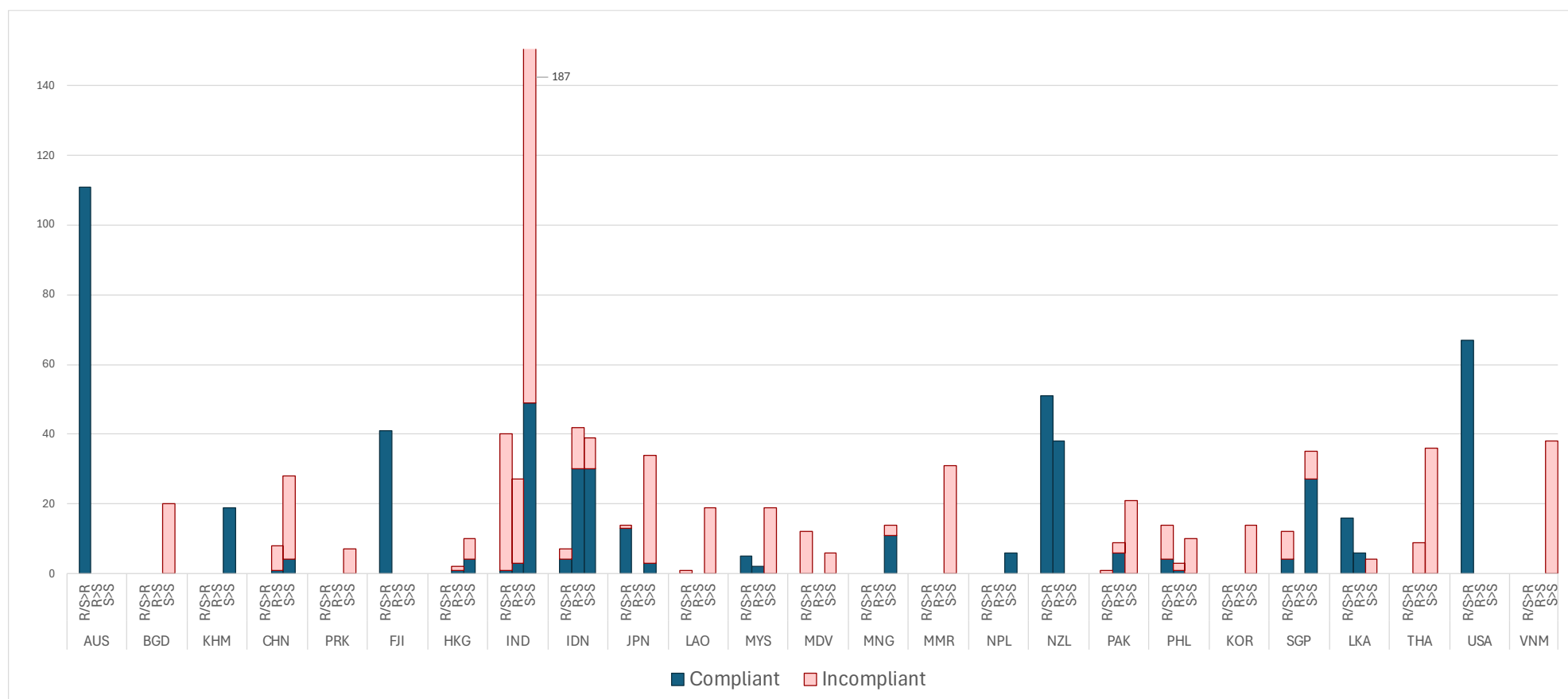


Figure 7: Analysis of Inbound TOC Categories by Applicable States/Administrations, March 2025

2.11 **Table 2** showed the comparison of Inbound TOC points, the highest non-compliant TOC points, belong to Category S airspace to Category S FIR TOC Points. Even with surveillance coverage, the separation minimum of more than 20NM or 10NM (with auto hand-off and surveillance data-sharing of overlapping coverage at TOC point) were currently implemented at TOC points in the APAC region.

Table 2: Comparison of Compliance of Inbound TOC Points

	Number of Category R airspace to Category S FIR TOC Point	Number of Category R/S airspace to Category R FIR TOC Point	Number of Category S airspace to Category S FIR TOC Point	Total
Compliant	88	317	153	558
Not compliant	58	75	493	626
Total	146	392	646	1184

Conclusions

2.12 It was identified that Air Operations is one component of ICAO Long Term Aspirational Goal (LTAG) to reduce carbon emissions, therefore ICAO urges all APAC States and Administrations to address this key aspect of capacity and efficiency within their National Air Navigation Plans.

2.13 Noting the announcement of Project 30/10 during the Fourteenth Air Navigation Conference (AN-Conf/14) in 2024 for the provision of to optimise longitudinal separation standards, States/Administrations were encouraged to accelerate the process of negotiation and collaboration to achieve the new standards.

2.14 In addition, ICAO APAC Regional Office (and from a global perspective, ICAO HQ) also has a role in highlighting the human performance aspects that act as barriers to the implementation of more efficient horizontal separations and aircraft spacing at TOC points, particularly those contained within the Asia/Pacific Seamless ANS Plan, e.g. human performance-based training and procedures for operational staff providing ATS, including the application of tactical, surveillance-based ATC separation and control techniques near minimum ATC separation.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) urge all Administrations that have not done so to implement separation minimums to improve ATC service levels and update their ATS LOAs to meet the expectations of the Asia/Pacific Seamless ANS Plan; and
- c) discuss any relevant matters as appropriate.

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	Q1: Minimum horizontal separation standard			Q3: FLAS	Q3: FLAS remarks
	Acceptable standard: ≤ 50 NM	Acceptable standard: 5 NM	Acceptable standard: 5 NM	Acceptable standard: No	
States/Administration	Category R Horizontal Separation	Category S Horizontal Separation	Category T Horizontal Separation	FLAS	FLAS remarks
Afghanistan	N/A	50 NM	No Report	Yes	
Australia	30 NM	5 NM	3 NM	No	
Bangladesh	N/A	50 NM/10 mins	5 NM (inside TMA) 10 NM (Outside TMA)	Yes	
Bhutan	N/A	50 NM	No Report		
Brunei Darussalam					
Cambodia	N/A	5NM	5NM	Yes	Yes, PNH FIR applies flight level allocation scheme based on Annex 2 Crossing track conflicts occur within 50NM with BKK FIR and HCM FIR Crossing track confliction not occurs within 50NM with VTE FIR ATS surveillance coverage overlaps with PNH, BKK and HCM FIR
China	30NM	5 NM	3 NM	Yes	
Cook Islands	N/A	N/A	10-20 NM	No	
DPR Korea	N/A	17 NM	5NM	Yes	
Fiji	30 NM	5NM	5NM	No	
French Polynesia	30 NM	10-20 NM	No Report	No	
Hong Kong, China	N/A	5 NM	2.5/2.7/3/5 NM	No	While FLAS is applied at the FIR boundary, it does not apply within Hong Kong FIR.
India (Delhi)	50 NM - 10 mins 15 mis crossing tracking	5 NM	3 - 5 NM	No	No FLAS is applicable within DELHI FIR or adjacent INDIAN FIRs.
India (Mumbai)	50 NM - 10 mins 15 mis crossing tracking	5 NM	3 - 5 NM	Yes	The only FLAS applicable is FL330 with SANA'A, MOGADISHU and Seychelles. (FLAS not applicable with MOGADISHU and Seychelles for ADS-C/ CPDLC equipped aircraft.) (FLAS is not applicable for FLT entering Mumbai Oceanic Airspace after time 0530 and exiting Mumbai Oceanic Airspace by time 1330 UTC).
India (Kolkata)	50 NM - 10 mins 15 mis crossing tracking	5 NM	3 - 5 NM	Yes	FLAS is applicable Over Bay of Bengal, on the following routes: N877, P628, L759, P646, L507 , L301, N895 and M770. FLAS is applicable Over continental airspace, on the following routes: A791 (CEA VOR to TASOP) and N877 (VVZ- NNP- PRA-TASOP)
India (Chennai)	50 NM - 10 mins 15 mis crossing tracking	5 NM	3 - 5 NM	No	No FLAS is applicable within Chennai FIR or adjacent INDIAN FIRs.
Indonesia (Jakarta)	50NM	5NM	5NM	No	Jakarta FIR not implemented Flight Level Allocation Scheme , but our adjacent especially in South China Sea area has implemented FLAS/FLOS so we have to implement FLAS/FLOS before entering adjacent boundary considering implementation FLAS/FLOS on its FIR
Indonesia (Ujung Pandang)	50NM	5NM	5NM	No	
Japan	30NM	5NM	3NM	No	
Kiribati					
Lao PDR	30NM	30 NM	10 NM		
Macao, China	N/A	N/A	N/A	N/A	
Malaysia (Kota Kinabalu)	N/A	5 NM	5 NM	No	
Malaysia (Kuala Lumpur)	50 NM	5 NM	3 NM	No	
Maldives	50 NM	5 NM	5 NM	No	
Marshall Islands					
Micronesia					
Mongolia	N/A	16 NM	11 NM	Yes	ICAO ANNEX 2, Appendix 3.b. "RVSM-METERS"
Myanmar	80NM	80 - 50NM	20NM	Yes	
Nauru					
Nepal	N/A	5NM - 20NM	10NM	No	
New Caledonia					

New Zealand	30 NM	5 NM	3 NM	No	Details/Remarks: There is no flight level allocation scheme within the NZZO and NZCC FIR as we adhere to our table of cruising levels, any IFR aircraft track from 270 to 089 MAG the altitude or flight level must be odd e.g. A110, F130, F150. Any IFR aircraft track from 090 to 269 MAG the altitude or flight level must be even e.g. A120 F160 F180.
Pakistan (Lahore FIR)	N/A	15 NM	5 NM (Except Multan Int'l Airport TMA)	No	
Pakistan (Karachi FIR)	N/A	15 NM	5 NM	No	
Palau					
Papua New Guinea	30NM	5NM	5NM	No	
Philippines	50 NM	5 NM	5 NM	Yes	Please refer to TABLE B: No PDC Flight Level Assignment
Republic of Korea	N/A	5NM	3NM	No	FLAS within Incheon FIR(RKRR) is operated in the area closer than 50NM from the FIR boundary.
Samoa					
Singapore	30 NM	5 NM	3 NM	Yes	FLAS is applied on ATS routes over the South China Sea
Solomon Islands (Honiara)					
Sri Lanka (Colombo)	50 NM	5 NM	5 NM	Yes	
Thailand	N/A	5 NM	3 NM	No	
Timor-Leste					
Tonga	N/A	25 NM	No Report	No	
Tuvalu					
United States (Anchorage Oceanic)	15 - 30 NM	5 NM	N/A	Yes	
United States (Oakland Oceanic)	15 - 30 NM	5 NM	3 NM	Yes	
Vanuatu					
Viet Nam (Ho Chi Minh FIR)	30 NM	10 NM	3 NM	Yes	Details/Remarks: Q1, Q2, W1, W2 G221, M765, N891, L628, G474, R588, R468, M755, M753, M505, N891, M510, R334, N892, N500, L625, L642, M771, M768, L644, B202
Viet Nam (Hanoi FIR)	N/A	5 NM	5 NM	Yes	Details/Remarks: A1; A202; A206; B214; B468; B465; R328; R335; R471; R474; G221; N639; W1; W2; Q1; Q2

States that responded for 2022 survey	48%
States that responded for 2023 survey	57%
States that responded for 2024 survey	36%
States that responded for 2025 survey	27%

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
1	AAT	A201	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
2	AGODA	R472	Category S airspace to Category S FIR TOC Point	50NM	VECC	No		Bangladesh	Incompliant
3	AGODA	R598	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
4	APAGO	B465	Category S airspace to Category S FIR TOC Point	10 Mins	VYYY	No		Bangladesh	Incompliant
5	ATOGA	R472	Category S airspace to Category S FIR TOC Point	50NM	VECC	No		Bangladesh	Incompliant
6	AVLED	G463	Category S airspace to Category S FIR TOC Point	10 Mins	VYYY	No		Bangladesh	Incompliant
7	AVNAK	B209	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
8	AVPOP	L507	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No	ATC service is provided by Kolkata ACC on route L507 from AVPOP to ESDOT	Bangladesh	Incompliant
9	BEMAK	A462	Category S airspace to Category S FIR TOC Point	50NM	VECC	No		Bangladesh	Incompliant
10	BIPUL	R472	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
11	CHILA	A599	Category S airspace to Category S FIR TOC Point	10 Mins	VYYY	No		Bangladesh	Incompliant
12	ESDOT	L507	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No	ATC service is provided by Kolkata ACC on route L507 from ESDOT to AVPOP	Bangladesh	Incompliant
13	IBAPA	B593	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
14	NOKAT	B593	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
15	REDAP	R344	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
16	SUMAG	B465	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
17	TEBID	G463	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
18	TEBID	A201	Category S airspace to Category S FIR TOC Point	10 Mins	VECC	No		Bangladesh	Incompliant
19	MIGOP	R598	Category S airspace to Category S FIR TOC Point	11 Mins	VECC	No		Bangladesh	Incompliant
20	VINAD	R599	Category S airspace to Category S FIR TOC Point	12 Mins	VECC	No		Bangladesh	Incompliant
21	DOVOM	G329	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
22	UBLIN	A580	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
23	RUMIX	B333	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
24	VESUN	B580/ B601	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
25	TEBUR	B578/ B602	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
26	MEPAB	A474/ R587/ G585	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
27	BODEG	B586	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
28	ENOUS	A597	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
29	NIPER	B598	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
30	AKNAK	R450	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
31	LEGOT	R599/ B452	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
32	KAPNO	B590	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
33	BULRO	G223	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
34	UPDIX	A584	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
35	LEPKA	B326	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
36	KASKU	A578	Category R/S airspace to Category R FIR TOC Point	30NM	YBBB	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
37	VAVEE	R332	Category R/S airspace to Category R FIR TOC Point	30NM	KZAK	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
38	NIXAM	B326	Category R/S airspace to Category R FIR TOC Point	30NM	KZAK	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
39	ARTOP	B474	Category R/S airspace to Category R FIR TOC Point	30NM	KZAK	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
40	BOILS	B580	Category R/S airspace to Category R FIR TOC Point	30NM	KZAK	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
41	CUFFY	A579	Category R/S airspace to Category R FIR TOC Point	30NM	KZAK	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
42	GOMIK	B581	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
43	KETUS	A584	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
44	OVLAD	B577	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
45	IDNIP	R453	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
46	DOMAX	A580	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
47	BODER	G224	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
48	VIMEK	B599	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
49	ESDOX	G593/ G223	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
50	SOVRA	B450	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
51	TAXIS	B598	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
52	GURDI	B451/ B578	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
53	EGATO	A580	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
54	POREN	A578	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
55	DOLSI	B450/ B451	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
56	TERUX	G224	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
57	SADIM	R599	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
58	LEKAX	A597	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
59	OSVAR	G591	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
60	UBDAK	G329	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
61	LEBOL	B333	Category R/S airspace to Category R FIR TOC Point	30NM	NZZO	YES	Both aircraft to be equipped RNP 4 and ADS-C	Fiji	Compliant
62	NOMAN	A461	Category S airspace to Category S FIR TOC Point	30NM	Manila	No	1. RNP4 compliant 2. FL290 or above 3. Distance is constant or increasing 4. 50NM/10min applies if all of the conditions above cannot be fulfilled	Hong Kong China	Incompliant
63	SABNO	A583	Category R airspace to Category S FIR TOC Point	30NM	Manila	No	1. RNP4 compliant 2. CPDLC equipped 3. ADS-C equipped 4. FL290 or above 5. Distance is constant or increasing 6. 50NM/10min applies if all of the conditions above cannot be fulfilled	Hong Kong China	Compliant
64	ASOBA	M772	Category R airspace to Category S FIR TOC Point	10 Mins	Manila	No	If preceding aircraft is faster, can apply MNT to reduce the longitudinal separation	Hong Kong China	Incompliant
65	ELATO	A1	Category S airspace to Category S FIR TOC Point	20NM	Taipei	Yes	40NM if succeeding aircraft is faster	Hong Kong China	Incompliant
66	KAPLI	G86	Category S airspace to Category S FIR TOC Point	20NM	Taipei	Yes	40NM if succeeding aircraft is faster	Hong Kong China	Incompliant
67	TAMOT	B330	Category S airspace to Category S FIR TOC Point	30NM (joining different routes within HK FIR) 50NM (others)	Guangzhou	Yes		Hong Kong China	Incompliant
68	DOTMI	A470	Category S airspace to Category S FIR TOC Point	30NM (one landing at VHHH or joining different routes within HK FIR) 10 min with MNT (others)	Shanghai / Xiamen / Shantou ATCU	No		Hong Kong China	Incompliant
69	LELIM	M503	Category S airspace to Category S FIR TOC Point	7 Mins	Shanghai	No		Hong Kong China	Incompliant
70	SIERA	R473	Category S airspace to Category S FIR TOC Point	16NM (one or both aircraft is/are landing at VHHH) 20NM (traffic from Zhuhai Approach) 30NM (joining different routes within HK FIR) 10 Mins MNT (others)	Guangzhou / Zhuhai Approach	No		Hong Kong China	Incompliant
71	AKSUN	A204/Y104	Category S airspace to Category S FIR TOC Point	10 Mins	Khabarovsk	No		Japan	Compliant
72	LUMIN	Y10/B223	Category S airspace to Category S FIR TOC Point	10 Mins	Khabarovsk	No		Japan	Compliant
73	ODERI	B932	Category S airspace to Category S FIR TOC Point	10 Mins	Khabarovsk	No		Japan	Compliant
74	BISIV	G583/Y116	Category S airspace to Category S FIR TOC Point	20nm	Khabarovsk	No		Japan	Compliant
75	ANIMO	B337/Y114	Category S airspace to Category S FIR TOC Point	20nm	Khabarovsk	No		Japan	Compliant
76	IGROD	Y301/Y304/Y347/Y377/B451	Category S airspace to Category S FIR TOC Point	15NM	Khabarovsk	No		Japan	Compliant
77	SAPRA	G585/Y16/Y38/Y599/(Y685)	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
78	LANAT	G597/Y51/Y597/Y71/(Y697)	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
79	IGRAS	B332/Y332/(Z56)	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
80	ANDOL	L512	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
81	MEVIN	B462	Category S airspace to Category S FIR TOC Point	15 Mins	Manila	No	Category R/S airspace to Category R/S FIR TOC Point Inbound(northeast bound) altitudes are FL290, FL310, FL320, FL350, FL360, FL390 and FL400 due to FLAS in Manila FIR.	Japan	Compliant
82	BISIG	A582	Category S airspace to Category S FIR TOC Point	15 Mins	Manila	No	Category R/S airspace to Category R/S FIR TOC Point	Japan	Compliant
83	LEBIX	N884	Category S airspace to Category S FIR TOC Point	15 Mins	Manila	No	Category R/S airspace to Category R/S FIR TOC Point	Japan	Compliant
84	KALEK	Y206	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
85	INVOK	G339/Y208	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
86	APELA	A582	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
87	BESNA	Y209	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
88	RUGMA	A586/Y579	Category S airspace to Category S FIR TOC Point	20nm	Incheon	Yes		Japan	Incompliant
89	ONIKU	A593/Y592	Category S airspace to Category S FIR TOC Point	20nm	Incheon	No		Japan	Compliant
90	BEDAR	Y591	Category S airspace to Category S FIR TOC Point	20nm	Incheon	No	Inbound(east bound) altitudes are FL250, FL290, FL310 and FL390 due to FLAS in the AKARA-FUKUE corridor of Incheon FIR.	Japan	Compliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
91	SAMDO	A595	Category S airspace to Category S FIR TOC Point	20nm	Incheon	No		Japan	Compliant
92	ATOTI	Y741/B576	Category S airspace to Category S FIR TOC Point	30NM	Incheon	No		Japan	Incompliant
93	ATOTI	Y741/B576	Category S airspace to Category S FIR TOC Point	60NM	Incheon	No		Japan	Incompliant
94	MUGUS	Y742	Category S airspace to Category S FIR TOC Point	30NM	Incheon	No		Japan	Incompliant
95	APITO	AKARA-APITO MIKES	Category S airspace to Category S FIR TOC Point	15 Mins	Shanghai	Yes		Japan	Incompliant
96	BULAN	A1/Y751	Category S airspace to Category S FIR TOC Point	20 or 60NM	Taipei	Yes	20 or 60NM depending on the destination	Japan	Incompliant
97	MOLKA	M750	Category S airspace to Category S FIR TOC Point	20nm	Taipei	Yes		Japan	Incompliant
98	SALMI	B576/Y742/Y743	Category S airspace to Category S FIR TOC Point	30NM	Taipei	Yes		Japan	Incompliant
99	LIPLO	Y741	Category S airspace to Category S FIR TOC Point	30NM	Taipei	No		Japan	Incompliant
100	BULAN	A1/Y751	Category S airspace to Category S FIR TOC Point	60NM	Taipei	No		Japan	Incompliant
101	SALMI	B576/Y742/Y743	Category S airspace to Category S FIR TOC Point	Remarks	Taipei	No	20 or 60NM depending on the destination	Japan	Incompliant
102	NIPPI	R220	Category S airspace to Category S FIR TOC Point	30NM	Anchorage	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Incompliant
103	OMOTO	R580	Category S airspace to Category S FIR TOC Point	30NM	Anchorage	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Incompliant
104	AKISU	R591	Category S airspace to Category S FIR TOC Point	30NM	Anchorage	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Incompliant
105	CUTEE	G344	Category R/S airspace to Category R FIR TOC Point	30NM	Anchorage	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
106	EMNAK		Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
107	DEWOP		Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
108	GNOSS		Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
109	VILEY		Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
110	CANOE		Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
111	BEEBO	G223	Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
112	ATIGO	B452	Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
113	TEGOD	A337	Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	No	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
114	OMLET	B586	Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
115	MONPI	A597	Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
116	PAKDO	G339	Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
117	KEITH	R584/R595/A339	Category R/S airspace to Category R FIR TOC Point	30NM	Oakland	Yes	50NM for PBCS and RNP10 aircraft, 10 Mins for non-PBCS aircraft	Japan	Compliant
118	GURAG	A590	Category R/S airspace to Category R FIR TOC Point	10 Mins MNT	Manila	Yes		Japan	Incompliant
119	OLKIT	M758	Category R airspace to Category S FIR TOC Point	50NM	SINGAPORE	Yes		Malaysia (Kota Kinabalu)	Compliant
120	ASISU	M768	Category R airspace to Category S FIR TOC Point	50NM	SINGAPORE	Yes		Malaysia (Kota Kinabalu)	Compliant
121	VINIK	M522 & M754	Category S airspace to Category S FIR TOC Point	10 Mins MNT	MANILA	Yes		Malaysia (Kota Kinabalu)	Incompliant
122	OSANU	M646	Category S airspace to Category S FIR TOC Point	50NM	MANILA	Yes	Applicable only to aircraft landing at KK FIR and 10 minutes for overflight aircraft	Malaysia (Kota Kinabalu)	Incompliant
123	VIMAG	A341	Category S airspace to Category S FIR TOC Point	50NM	MANILA	Yes		Malaysia (Kota Kinabalu)	Incompliant
124	MAMOK	M768 & M522	Category S airspace to Category S FIR TOC Point	20NM	UJUNG	Yes		Malaysia (Kota Kinabalu)	Incompliant
125	AGSON	R223	Category S airspace to Category S FIR TOC Point	20NM	UJUNG	Yes		Malaysia (Kota Kinabalu)	Incompliant
126	OKADA	P648	Category S airspace to Category S FIR TOC Point	20NM	JAKARTA	Yes		Malaysia (Kota Kinabalu)	Incompliant
127	NOPEK	P574	Category R/S airspace to Category R FIR TOC Point	50NM	CHENNAI OCC	Yes		Malaysia (Kuala Lumpur)	Compliant
128	ANOKO	B466	Category R/S airspace to Category R FIR TOC Point	50NM	KUNMING	Yes		Malaysia (Kuala Lumpur)	Compliant
129	IGOGU	N571	Category R/S airspace to Category R FIR TOC Point	50NM	KUNMING	Yes		Malaysia (Kuala Lumpur)	Compliant
130	SAMAK	L645	Category R/S airspace to Category R FIR TOC Point	50NM	KUNMING	Yes		Malaysia (Kuala Lumpur)	Compliant
131	EMRAN	L510	Category R/S airspace to Category R FIR TOC Point	50NM	KUNMING	Yes		Malaysia (Kuala Lumpur)	Compliant
132	DALAN	B579	Category S airspace to Category S FIR TOC Point	20NM	BANGKOK ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
133	TAMOS	A457	Category S airspace to Category S FIR TOC Point	20NM	BANGKOK ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
134	KARMI	M757	Category S airspace to Category S FIR TOC Point	20NM	BANGKOK ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
135	PASVA	Y514	Category S airspace to Category S FIR TOC Point	20NM	BANGKOK ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
136	TAXUL	M763	Category S airspace to Category S FIR TOC Point	20NM	SINGAPORE ACC	No	WESTBOUND ONLY	Malaysia (Kuala Lumpur)	Compliant
137	VPK	G582	Category S airspace to Category S FIR TOC Point	20NM	SINGAPORE ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
138	PADLI	Y343	Category S airspace to Category S FIR TOC Point	20NM	SINGAPORE ACC	Yes	WESTBOUND ONLY	Malaysia (Kuala Lumpur)	Incompliant
139	90DME PU	B469	Category S airspace to Category S FIR TOC Point	20NM	SINGAPORE ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
140	AROSO	Y339	Category S airspace to Category S FIR TOC Point	15NM	SINGAPORE ACC	Yes	WESTBOUND ONLY	Malaysia (Kuala Lumpur)	Incompliant
141	SABKA	A457	Category S airspace to Category S FIR TOC Point	15NM	SINGAPORE ACC	Yes	WESTBOUND ONLY	Malaysia (Kuala Lumpur)	Incompliant
142	SALAX	N633	Category S airspace to Category S FIR TOC Point	20NM	JAKARTA ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
143	PUGER	R461	Category S airspace to Category S FIR TOC Point	20NM	JAKARTA ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
144	GOTLA	G468	Category S airspace to Category S FIR TOC Point	20NM	JAKARTA ACC	Yes		Malaysia (Kuala Lumpur)	Incompliant
145	NONIM	B345	Category S airspace to Category S FIR TOC Point	20NM	KUNMING	No		Nepal	Compliant
146	METOM	G348	Category S airspace to Category S FIR TOC Point	20NM	KOLKATTA	No		Nepal	Compliant
147	GOVKO	G463/R581	Category S airspace to Category S FIR TOC Point	20NM	KOLKATTA	No		Nepal	Compliant
148	BIPOB	G336	Category S airspace to Category S FIR TOC Point	20NM	KOLKATTA	No		Nepal	Compliant
149	OMUPA	G590	Category S airspace to Category S FIR TOC Point	20NM	KOLKATTA	No		Nepal	Compliant
150	PARSA	G598	Category S airspace to Category S FIR TOC Point	20NM	KOLKATTA	No		Nepal	Compliant
151	BUGBA	P753	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
152	ELGUN	M643	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
153	OMKIN	P766	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
154	OMKIN	L508	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
155	TOMAR	M625	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
156	MIDAT	L513	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
157	SULON	N750	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
158	NUMSA	P880	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
159	SASRO	M636	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
160	SASRO	N759	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
161	LEGAN	L521	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
162	RUNOD	L503	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
163	VEPAS	M639	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
164	SARAP	G595	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
165	RIGMI	A464	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
166	TEKEP	A346	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
167	TEKEP	B450	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Brisbane FIR (YBBB)	No	Based on RCP240 and RSP180 approval	New Zealand	Compliant
168	LEBOL	B333	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
169	UBDAK	G239	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
170	OSVAR	G591	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
171	LEKAX	A597	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
172	SADIM	R599	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
173	TERUX	G224	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
174	DOLSI	B450	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
175	POREN	A578	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
176	EGATO	A580	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
177	GURDI	B578	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
178	TAXIS	B598	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
179	SOVPA	B450	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
180	ESDOX	G593	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
181	VIMEK	B599	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
182	BODER	G224	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
183	DOMAX	A580	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
184	IDNIP	R453	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
185	OVLAD	B577	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
186	KETUS	A584	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
187	GOMIK	B581	Category R/S airspace to Category R FIR TOC Point	30NM	Nadi FIR (NFFF)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
188	DUNEY	G347	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Oakland Oceanic FIR (KZAK)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
189	WOOBY	B581	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Oakland Oceanic FIR (KZAK)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
190	ELLS	G457	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Oakland Oceanic FIR (KZAK)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
191	PASSA	B577	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Oakland Oceanic FIR (KZAK)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
192	RAMIZ	B596	Category R/S airspace to Category R FIR TOC Point	RLAT 23NM / RLONG 30NM	Oakland Oceanic FIR (KZAK)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
193	MEGOG	B200	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
194	MASBU	G224	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
195	BIBUP	B454	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
196	LEMUN	B599	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
197	GUBKA	G223	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
198	DUMUM	B578	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
199	KRILL	G594	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
200	RAXER	G595	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
201	SOSPI	G599	Category R/S airspace to Category R FIR TOC Point	30NM	Tahiti FIR (NTTT)	No	Based on RNP4 certified aircraft meeting RCP240/RSP180	New Zealand	Compliant
202	ADKOS	P753	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
203	LIBLA	P880	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
204	LIBLA	Y124	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
205	KABIN	L508	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
206	VANDA	N750	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
207	KABKA	L503	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
208	GOPLU	M625	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
209	GOPLU	Q679	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
210	TANEN	M636	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
211	TANEN	Q559	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
212	GULUT	M639	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
213	GULUT	Q651	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
214	VELMO	L513	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
215	PEBLU	Q619	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
216	PEBLU	N759	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
217	LUNBI	Y683	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
218	LUNBI	L521	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
219	UPLAR	L326	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
220	UPLAR	Q537	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
221	UPLAR	A464	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
222	SALAG	A346	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
223	ELNOS	G591	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
224	DUGAN	A597	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
225	KALAG	A578	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
226	AGREX	A580	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
227	TARIB	G347	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
228	ELPAK	B575	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
229	AGEDU	Q912	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
230	IDSEM	Q947	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
231	DABAS	Q983	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
232	AKLOM	G594	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
233	OLBEX	G599	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
234	IBESO	R327	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
235	GOKAG	Q697	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
236	AVDEG	Q712	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
237	ATABU	Q611	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
238	LALAP	Q854	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
239	HELGE	A338	Category R airspace to Category S FIR TOC Point	5NM	Auckland Oceanic FIR (NZZO)	N/A		New Zealand	Compliant
240	KABIM	P518	Category S airspace to Category S FIR TOC Point	50NM	Mumbai	Yes	Based on RNP10 Operation	Pakistan (Karachi)	Incompliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
241	SAPNA	M638/N519	Category S airspace to Category S FIR TOC Point	50NM	Mumbai	Yes	Based on RNP10 Operation	Pakistan (Karachi)	Incompliant
242	PARTY	G208	Category S airspace to Category S FIR TOC Point	50NM	Mumbai	Yes		Pakistan (Karachi)	Incompliant
243	TASOP	A325/B210	Category S airspace to Category S FIR TOC Point	50NM	Mumbai	Yes		Pakistan (Karachi)	Incompliant
244	RAMSA	R462	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Yes		Pakistan (Karachi)	Incompliant
245	VIKIT	P628	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Yes	Based on RNP10 Operation	Pakistan (Karachi)	Incompliant
246	MERUN	G202/R471/	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Yes	Based on RNP10 Operation on Route L750	Pakistan (Karachi)	Incompliant
247	MERUN	G452/L750	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Yes	Based on RNP10 Operation on Route L750	Pakistan (Karachi)	Incompliant
248	SERKA	N636/B466	Category R airspace to Category S FIR TOC Point	50NM	Kabul	No	Based on RNP10 Operation on route N636	Pakistan (Karachi)	Compliant
249	GADER	A453	Category R airspace to Category S FIR TOC Point	10 Mins	Kabul	No		Pakistan (Karachi)	Incompliant
250	PIRAN	A453	Category S airspace to Category S FIR TOC Point	10 Mins	Tehran	Yes		Pakistan (Karachi)	Incompliant
251	DERBO	G452	Category S airspace to Category S FIR TOC Point	50NM	Tehran	Yes		Pakistan (Karachi)	Incompliant
252	KEBUD	L124/G208	Category S airspace to Category S FIR TOC Point	50NM	Tehran	Yes	Based on RNAV5 Operation on route L124	Pakistan (Karachi)	Incompliant
253	ASVIB	G665	Category S airspace to Category S FIR TOC Point	50NM	Tehran	Yes		Pakistan (Karachi)	Incompliant
254	EGRON	A791	Category S airspace to Category S FIR TOC Point	50NM	Tehran	Yes		Pakistan (Karachi)	Incompliant
255	METBI	R462	Category S airspace to Category S FIR TOC Point	50NM	Tehran	Yes		Pakistan (Karachi)	Incompliant
256	ALPOR	M504	Category S airspace to Category S FIR TOC Point	5 Mins	Muscat	Yes	Based on surveillance	Pakistan (Karachi)	Incompliant
257	APELO	B505	Category S airspace to Category S FIR TOC Point	5 Mins	Muscat	Yes	Based on surveillance	Pakistan (Karachi)	Incompliant
258	ALPOR	G216	Category S airspace to Category S FIR TOC Point	5 Mins	Muscat	Yes	Based on surveillance	Pakistan (Karachi)	Incompliant
259	GUGAL	M875	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Yes	Based on RNP10 Operation	Pakistan (Lahore)	Incompliant
260	SULOM	466/L509 /T40	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Yes	Based on RNP10 Operation on Route L509/T400	Pakistan (Lahore)	Incompliant
261	RABAN	A456	Category S airspace to Category S FIR TOC Point	10 Mins	Delhi	Yes		Pakistan (Lahore)	Incompliant
262	PURPA	G325/G206	Category S to Category R/S FIR TOC Point	10 Mins	Urumqi (China)	No	From TOC Point PURPA on route G206 80NM and on route G325 30NM category R (Topographic Problem) thereafter Category S in Lahore FIR	Pakistan (Lahore)	Incompliant
263	MOTMO	P500	Category S airspace to Category S FIR TOC Point	10 Mins	Dushanbe	Yes	Traffic is handover directly to Dushanbe ACC (Tajikistan FIR) due to shorter distance (12 NM) in Kabul FIR	Pakistan (Lahore)	Incompliant
264	DUGIN	G206	Category R airspace to Category S FIR TOC Point	10 Mins	Kabul	No	From TOC Point DUGIN on route G206 124NM Category S thereafter Category R (Topographic Problem) in Lahore FIR upto TOC Point PURPA	Pakistan (Lahore)	Incompliant
265	LAJAK	L509/M881	Category R airspace to Category S FIR TOC Point	50NM	Kabul	No	Based on RNP10 Operation/ ATM Contingency is currently effective in Kabul FIR	Pakistan (Lahore)	Compliant
266	LAJAK	M875/A466	Category R airspace to Category S FIR TOC Point	50NM	Kabul	No	Based on RNP10 Operation/ ATM Contingency is currently effective in Kabul FIR	Pakistan (Lahore)	Compliant
267	DOBAT	N644	Category R airspace to Category S FIR TOC Point	50NM	Kabul	No	Based on RNP10 Operation	Pakistan (Lahore)	Compliant
268	BIROS	L750	Category R airspace to Category S FIR TOC Point	50NM	Kabul	No	Based on RNP10 Operation	Pakistan (Lahore)	Compliant
269	RIMPA	G202	Category R airspace to Category S FIR TOC Point	10 Mins	Kabul	No		Pakistan (Lahore)	Incompliant
270	ASLUM	P628	Category R airspace to Category S FIR TOC Point	50NM	Kabul	No	Based on RNP10 Operation	Pakistan (Lahore)	Compliant
271	NOMAN	A461/M501	Category S airspace to Category S FIR TOC Point	30NM	Hong Kong	No	30NM spacing requires RNP4.	Philippines	Incompliant
272	SABNO	A583	Category R/S airspace to Category R FIR TOC Point	30NM	Hong Kong	No	30NM spacing requires RNP4 and ADS-C /CPDLC	Philippines	Compliant
273	ARESI	L625	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	HoChiMinh	No		Philippines	Incompliant
274	ARESI	L628	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	HoChiMinh	No		Philippines	Incompliant
275	PANDI	M765	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	HoChiMinh	No		Philippines	Incompliant
276	LAXOR	N884	Category R airspace to Category S FIR TOC Point	30NM	Singapore	Yes	30NM spacing requires RNP4.	Philippines	Compliant
277	LAXOR	M772	Category R airspace to Category S FIR TOC Point	80NM or 10 Mins MNT	Singapore	Yes	Surveillance coverage ends at DODUG.	Philippines	Incompliant
278	VINIK	M754	Category S airspace to Category S FIR TOC Point	80NM or 10 Mins MNT	Kota Kinabalu	Yes		Philippines	Incompliant
279	OSANU	M646	Category S airspace to Category S FIR TOC Point	50NM	Kota Kinabalu	Yes	50NM spacing requires RNP10/RNP.	Philippines	Incompliant
280	VIMAG	A341	Category S airspace to Category S FIR TOC Point	50NM	Kota Kinabalu	Yes	50NM spacing requires RNP10/RNP.	Philippines	Incompliant
281	GORAI	G578	Category S airspace to Category S FIR TOC Point	50NM	Ujung Pandang	Yes	50NM spacing requires RNP10/RNP.	Philippines	Incompliant
282	NITIP	A461	Category S airspace to Category S FIR TOC Point	50NM	Ujung Pandang	Yes	50NM spacing requires RNP10/RNP.	Philippines	Incompliant
283	SELDO	B472	Category S airspace to Category S FIR TOC Point	50NM	Ujung Pandang	Yes	50NM spacing requires RNP10/RNP.	Philippines	Incompliant
284	PEDNO	R590	Category S airspace to Category S FIR TOC Point	50NM	Ujung Pandang	Yes	50NM spacing subject to approval. Requires RNP10/RNP4.	Philippines	Incompliant
285	ELNIT	B473	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	Ujung Pandang	No		Philippines	Incompliant
286	BIDOR	B462	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	Ujung Pandang	No		Philippines	Incompliant
287	BOLUG	A339	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	Ujung Pandang	No		Philippines	Incompliant
288	SHREE	A339	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	Oakland	No		Philippines	Incompliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
289	ISGOG	R337	Category R/S airspace to Category R FIR TOC Point	50NM	Oakland	No	50NM spacing requires RNP10/RNP4 RCP240/RSP180	Philippines	Compliant
290	ENDAX	G467	Category R/S airspace to Category R FIR TOC Point	50NM	Oakland	No	50NM spacing requires RNP10/RNP4 RCP240/RSP180	Philippines	Compliant
291	LIMLE	M501	Category R/S airspace to Category R FIR TOC Point	50NM	Oakland	No	50NM spacing requires RNP10/RNP4 RCP240/RSP180	Philippines	Compliant
292	GURAG	A590	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	Fukuoka	No	Already discussed with JCAB for possible reduction of separation.	Philippines	Incompliant
293	GURAG	G578	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	Fukuoka	No	Already discussed with JCAB for possible reduction of separation.	Philippines	Incompliant
294	BISIG	A582	Category R/S airspace to Category R FIR TOC Point	80NM or 10 Mins MNT	Fukuoka	No		Philippines	Incompliant
295	MEVIN	B462	Category R airspace to Category S FIR TOC Point	80NM or 10 Mins MNT	Fukuoka	Yes	Radar surveillance and VHF radio coverage extends beyond Manila FIR. No AIDC with Fukuoka ACC.	Philippines	Incompliant
296	POTIB	M646	Category S airspace to Category S FIR TOC Point	30NM	Taibei	Yes	Spacing below 30NM requires prior approval with radar hand-over.	Philippines	Incompliant
297	KABAM	N892	Category S airspace to Category S FIR TOC Point	80NM or 10 Mins MNT	Taibei	Yes		Philippines	Incompliant
298	ARAMA	A464	Category S airspace to Category S FIR TOC Point	10NM	Kuala Lumpur	No		Singapore	Compliant
299	REKOP	A576	Category S airspace to Category S FIR TOC Point	10NM	Kuala Lumpur	No		Singapore	Compliant
300	ENPUX	B469	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
301	ATLIR	B469	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights above FL370	Singapore	Compliant
302	90 DME PU	B469	Category S airspace to Category S FIR TOC Point	40NM	Kuala Lumpur	No		Singapore	Incompliant
303	UKASA	G334	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur	No		Singapore	Compliant
304	IRSAB	G334	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No		Singapore	Compliant
305	PARDI	G579	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
306	OLNUB	G579	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights above FL370	Singapore	Compliant
307	DODSO	G580	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
308	DOWON	G580	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights above FL370	Singapore	Compliant
309	GULIB	L517	Category R/S airspace to Category R FIR TOC Point	10 Mins MNT	Kota Kinabalu	No		Singapore	Incompliant
310	VPK	L629	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur	No		Singapore	Compliant
311	ESPOB	L642	Category S airspace to Category S FIR TOC Point	20NM	Ho Chi Minh	No		Singapore	Compliant
312	DUDIS	L644	Category S airspace to Category S FIR TOC Point	10 Mins MNT	Ho Chi Minh	No		Singapore	Incompliant
313	DAKIX	L649	Category R/S airspace to Category R FIR TOC Point	10 Mins MNT	Kota Kinabalu	No		Singapore	Incompliant
314	MIBEL	L762	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
315	VINIK	M522	Category R/S airspace to Category R FIR TOC Point	N/A	Manila	N/A	Portion of M522 within Singapore FIR delegated to Kota Kinabalu ACC for provision of ATS	Singapore	Compliant
316	NODIN	M522	Category R/S airspace to Category R FIR TOC Point	N/A	Kota Kinabalu	N/A	Portion of M522 within Singapore FIR delegated to Kota Kinabalu ACC for provision of ATS	Singapore	Compliant
317	SUKRI	M630	Category S airspace to Category S FIR TOC Point	10NM	Kuala Lumpur	No	For flights at or below FL370	Singapore	Compliant
318	INVUB	M635	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
319	UNSID	M635	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights above FL370	Singapore	Compliant
320	VENUN	M646	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
321	IPRIX	M753	Category S airspace to Category S FIR TOC Point	20NM	Ho Chi Minh	No		Singapore	Compliant
322	SUMLA	M754	Category R/S airspace to Category R FIR TOC Point	N/A	Kota Kinabalu	N/A	Portion of M754 within Singapore FIR delegated to Kota Kinabalu ACC for provision of ATS	Singapore	Compliant
323	VINIK	M754	Category R/S airspace to Category R FIR TOC Point	N/A	Manila	N/A	Portion of M754 within Singapore FIR delegated to Kota Kinabalu ACC for provision of ATS	Singapore	Compliant
324	VPK	M758	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur	No		Singapore	Compliant
325	OLKIT	M758	Category R/S airspace to Category R FIR TOC Point	10 Mins MNT	Kota Kinabalu	No		Singapore	Incompliant
326	UPVUN	M758	Category R/S airspace to Category R FIR TOC Point	20NM	Jakarta	No		Singapore	Compliant
327	VPK	M761	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur	No		Singapore	Compliant
328	OSERU	M761	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
329	OBPVA	M761	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights above FL370	Singapore	Compliant
330	IGARI	M765	Category S airspace to Category S FIR TOC Point	N/A	Ho Chi Minh	N/A	Portion of M765 within the Singapore FIR delegated to Kuala Lumpur ACC for provision of ATS	Singapore	Compliant
331	TEGID	M767	Category R/S airspace to Category R FIR TOC Point	30NM based on RNP4 operations	Manila	No		Singapore	Compliant
332	NIXEB	M767	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
333	AKMON	M768	Category R/S airspace to Category R FIR TOC Point	50NM based on RNP10 operations	Ho Chi Minh	No		Singapore	Compliant
334	ASISU	M768	Category R/S airspace to Category R FIR TOC Point	50NM based on RNP10 operations	Kota Kinabalu	No		Singapore	Compliant
335	ASISU	M772	Category R/S airspace to Category R FIR TOC Point	10 Mins MNT	Kota Kinabalu	No		Singapore	Incompliant
336	OTLAL	M774	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
337	TIDAR	M904	Category S airspace to Category S FIR TOC Point	10 Mins MNT	Bangkok	No		Singapore	Incompliant
338	AKDAT	N875	Category S airspace to Category S FIR TOC Point	10 Mins MNT	Jakarta	No		Singapore	Incompliant
339	IGARI	N891	Category S airspace to Category S FIR TOC Point	10 Mins MNT	Ho Chi Minh	No		Singapore	Incompliant
340	MELAS	N892	Category S airspace to Category S FIR TOC Point	20NM	Ho Chi Minh	No		Singapore	Compliant
341	ARAMA	P501	Category S airspace to Category S FIR TOC Point	10NM	Kuala Lumpur	No		Singapore	Compliant
342	IGARI	R208	Category S airspace to Category S FIR TOC Point	N/A	Ho Chi Minh	N/A	Portion of R208 within the Singapore FIR released to Kuala Lumpur ACC daily subject to coordination between Singapore ACC and Lumpur ACC.	Singapore	Compliant
343	IKUKO	R208	Category S airspace to Category S FIR TOC Point	N/A	Kuala Lumpur	N/A	Portion of R208 within the Singapore FIR released to Kuala Lumpur ACC daily subject to coordination between Singapore ACC and Lumpur ACC.	Singapore	Compliant
344	TAROS	R469	Category S airspace to Category S FIR TOC Point	20NM	Jakarta	No	For flights at or below FL370	Singapore	Compliant
345	BIKOK	N640/M641	Category S airspace to Category S FIR TOC Point	10NM/30NM * TFC landing at Sri Lanka	Chennai	No	RNP10 aircraft, prior coordination	Sri Lanka	Incompliant
346	IDIBI	G325	Category S airspace to Category S FIR TOC Point	50NM	Chennai	No	RNP10 aircraft, prior coordination	Sri Lanka	Incompliant
347	ATETA	M300	Category S airspace to Category S FIR TOC Point	50NM	Chennai	No	RNP10 aircraft, prior coordination	Sri Lanka	Incompliant
348	SAGOR	A465	Category S airspace to Category S FIR TOC Point	10NM/30NM * TFC landing at Sri Lanka	Chennai	No	RNP10 aircraft, prior coordination	Sri Lanka	Incompliant
349	DUGOS	P762	Category R airspace to Category S FIR TOC Point	50NM	Chennai	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
350	SULTO	L645	Category R/S airspace to Category R FIR TOC Point	50NM	Chennai	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
351	SEBLO	G465	Category R airspace to Category S FIR TOC Point	10NM/30NM * TFC landing at Sri Lanka	Male	Yes	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
352	TELIG	M512	Category R airspace to Category S FIR TOC Point	10NM/30NM * TFC landing at Sri Lanka	Male	Yes	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
353	PADLA	G454	Category R airspace to Category S FIR TOC Point	10NM/30NM * TFC landing at Sri Lanka	Male	Yes	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
354	MANRU	M513	Category R airspace to Category S FIR TOC Point	10NM/30NM * TFC landing at Sri Lanka	Male	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
355	SUNAN	L894	Category R/S airspace to Category R FIR TOC Point	50NM	Male	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
356	UBKIN	P756	Category R airspace to Category S FIR TOC Point	50NM	Male	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
357	TOPIN	M300	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
358	NIXUL	P627	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
359	NIXUL	P570	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
360	NISOK	P756	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
361	NISOK	L896	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
362	SELSU	M766	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
363	KETIV	L897	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
364	KETIV	N628	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
365	KETIV	L774	Category R/S airspace to Category R FIR TOC Point	50NM	Jakarta	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
366	ELATI	N640	Category R/S airspace to Category R FIR TOC Point	50NM	Australia	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
367	DOGAR	M641	Category R/S airspace to Category R FIR TOC Point	50NM	Australia	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
368	KADAP	P627	Category R/S airspace to Category R FIR TOC Point	50NM	Australia	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
369	DADAR	N628	Category R/S airspace to Category R FIR TOC Point	50NM	Australia	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
370	DADAR	L894	Category R/S airspace to Category R FIR TOC Point	50NM	Australia	No	RNP10 aircraft, prior coordination	Sri Lanka	Compliant
371	OMURO	G474	Category S airspace to Category S FIR TOC Point	20NM*	Phnom Penh FIR	Yes	Surveillance spacing	Thailand	Incompliant
372	TUPGO	M633	Category S airspace to Category S FIR TOC Point	20NM*	Phnom Penh FIR	Yes	Surveillance spacing	Thailand	Incompliant
373	BENSA	N891	Category R airspace to Category S FIR TOC Point	10 Mins	Phnom Penh FIR	No		Thailand	Incompliant
374	VAPVU	P629	Category S airspace to Category S FIR TOC Point	20NM*	Phnom Penh FIR	Yes	Surveillance spacing	Thailand	Incompliant
375	BOKAK	R468	Category S airspace to Category S FIR TOC Point	20NM*	Phnom Penh FIR	Yes	Surveillance spacing	Thailand	Incompliant
376	SAKDA	R334 R575	Category S airspace to Category S FIR TOC Point	20NM*	Phnom Penh FIR	Yes	Surveillance spacing	Thailand	Incompliant
377	BASIT	R588	Category S airspace to Category S FIR TOC Point	20NM*	Phnom Penh FIR	Yes	Surveillance spacing	Thailand	Incompliant
378	BIDEM	R345	Category S airspace to Category S FIR TOC Point	20NM*	Phnom Penh FIR	Yes	Surveillance spacing	Thailand	Incompliant
379	BUTRA	A1	Category S airspace to Category S FIR TOC Point	20NM*	Vientiane FIR	Yes	Surveillance spacing	Thailand	Incompliant
380	SAV	A202 B460	Category S airspace to Category S FIR TOC Point	20NM*	Vientiane FIR	Yes	Surveillance spacing	Thailand	Incompliant
381	PONUUK	A581	Category S airspace to Category S FIR TOC Point	40NM	Vientiane FIR	Yes	Surveillance spacing	Thailand	Incompliant
382	PAK	B202	Category S airspace to Category S FIR TOC Point	30NM	Vientiane FIR	Yes	Surveillance spacing	Thailand	Incompliant
383	YAKUA	B346	Category S airspace to Category S FIR TOC Point	40NM	Vientiane FIR	Yes	Surveillance spacing FL300 or above	Thailand	Incompliant
384	YAKUA	B346	Category S airspace to Category S FIR TOC Point	20NM*	Vientiane FIR	Yes	Surveillance spacing applied to flights between BKK-LPB	Thailand	Incompliant
385	BOPNU	M648	Category S airspace to Category S FIR TOC Point	30NM, 20NM*	Vientiane FIR	Yes		Thailand	Incompliant
386	ANBOK	R207	Category S airspace to Category S FIR TOC Point	10 Mins	Vientiane FIR	Yes		Thailand	Incompliant

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Auto hand-off surveillance data-sharing overlapping coverage at the TOC point : Yes or No	Remarks/Route Restrictions	Accepting State, FIR	Seamless ANS Plan compliance?
387	TOMIP	R215	Category S airspace to Category S FIR TOC Point	40NM	Vientiane FIR	Yes	Surveillance spacing FL300 or above	Thailand	Incompliant
388	TOMIP	R215	Category S airspace to Category S FIR TOC Point	20NM*	Vientiane FIR	Yes	Surveillance spacing	Thailand	Incompliant
389	VTN	474/B218/R47	Category S airspace to Category S FIR TOC Point	30NM	Vientiane FIR	Yes		Thailand	Incompliant
390	DALAN	B579	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
391	DUBAX	R325	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
392	TAMOS	A457	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
393	KARMI	A464	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
394	RIGTO	M769	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
395	SAPAM	L645	Category R airspace to Category S FIR TOC Point	10 Mins	Kuala Lumpur FIR	No		Thailand	Incompliant
396	RUSET	P627	Category R airspace to Category S FIR TOC Point	10 Mins	Kuala Lumpur FIR	No		Thailand	Incompliant
397	ABTOK	M644	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
398	KADAX	M626	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
399	PASVA	A334	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
400	GOLUD	M751	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur FIR	Yes	Surveillance spacing	Thailand	Incompliant
401	TIDAR	M904	Category R airspace to Category S FIR TOC Point	10 Mins	Kuala Lumpur FIR	No		Thailand	Incompliant
402	SISUK	R207	Category R airspace to Category S FIR TOC Point	10 Mins	Yangon FIR	No		Thailand	Incompliant
403	BOMAS	A581	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes	Surveillance spacing	Thailand	Incompliant
404	MAKAS	G473	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes	Surveillance spacing	Thailand	Incompliant
405	BETNO	G463	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes	Surveillance spacing	Thailand	Incompliant
406	PADET	G331	Category R airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	No	7 Mins applied for DEST. VTSP	Thailand	Incompliant
407	LUDVI	L507	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes		Thailand	Incompliant
408	BETNO	P646	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes		Thailand	Incompliant
409	NURDA	L524	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes		Thailand	Incompliant
410	PUMOR	L877	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes		Thailand	Incompliant
411	TANEK	L301	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Yes		Thailand	Incompliant
412	AKATO	M502	Category S airspace to Category S FIR TOC Point	30NM,20 NM*	Yangon FIR	Yes		Thailand	Incompliant
413	EKAVO	M626	Category R airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	No	7 Mins applied for DEST. VTSP	Thailand	Incompliant
414	TAVUN	L759	Category R airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	No	7 Mins applied for DEST. VTSP	Thailand	Incompliant
415	IKULA	L515	Category R airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	No	7 Mins applied for DEST. VTSP	Thailand	Incompliant