



ICAO

International Civil Aviation Organization

Seventeenth Meeting of the ICAO Aeronautical Information Services – Aeronautical Information Management Implementation Task Force (AAITF/17)

Video Teleconference, 20 – 24 June 2022

Agenda Item 5: AIS-AIM Updates

NOTAM PROLIFERATION ANALYSIS

(Presented by IFAIMA, in collaboration with ICAO)

SUMMARY

This paper presents information about, and a regional analysis on, NOTAM proliferation.

1. INTRODUCTION

1.1 AAITF/13 in 2018 discussed the continuing existence of NOTAM containing information of permanent validity that had not been transferred to AIP or AIP Supplement (AIP SUP) in a timely manner and developed the following Conclusion, subsequently agreed by ATM/SG/6:

Conclusion ATM/SG/6-14: Management of NOTAMs

That, States are urged to take immediate action to reduce the large numbers of permanent, long duration NOTAMs by:

- 1. conducting a full review of all NOTAMs issued by the State;*
- 2. expediting the transfer of valid permanent NOTAM information into AIP;*
- 3. expediting the transfer of valid temporary NOTAM information of long duration into AIP SUP; and*
- 4. cancelling the NOTAMs accordingly.*

1.2 AAITF/13 had agreed to the following Task:

<i>Task number</i>	13/4
<i>Action Item:</i>	Periodic sampling of NOTAM PIB to examine the proliferation of PERM and long-term temporary NOTAMs
<i>Time Frame:</i>	Ongoing
<i>Responsible party:</i>	Viet Nam and USA and Secretariat.

1.3 ICAO Headquarters initiated the Global Campaign on NOTAM Improvement and held the several webinars in 2021. The first phase of the campaign is focused on eliminating old NOTAMs. ICAO has developed a specific tool, the NOTAMeter, which analyzes the age of NOTAM issued by member States. The NOTAMeter distinguishes between **Current** (*less than 3 months*), **Old** (*more than 3 months but less than 1 year*), and **Very Old** NOTAM (*more than 1 year*).

2. DISCUSSION

Regional NOTAM Analysis

2.1 ICAO APAC Regional Office has been conducting a NOTAM Analysis for several years using different methodology and sources such as NOTAM checklists, lists of valid NOTAM and ICAO API Data service (<https://applications.icao.int/dataservices/default.aspx>).

2.2 The Regional NOTAM Analysis – 2022 is conducted by ICAO APAC Regional Office and International Federation of Aeronautical Information Management Associations (IFAIMA) using both NOTAMeter and the Regional methodology.

2.3 **Figure 1** and **Figure 2** illustrate Asia/Pacific NOTAM statistics since June 2020. As of 1st June 2022, a total 6122 NOTAMs were active in the APAC Region. 323 (5.3%) of these current NOTAMs were **old** and 666 (10.9%) were **very old** NOTAMs.

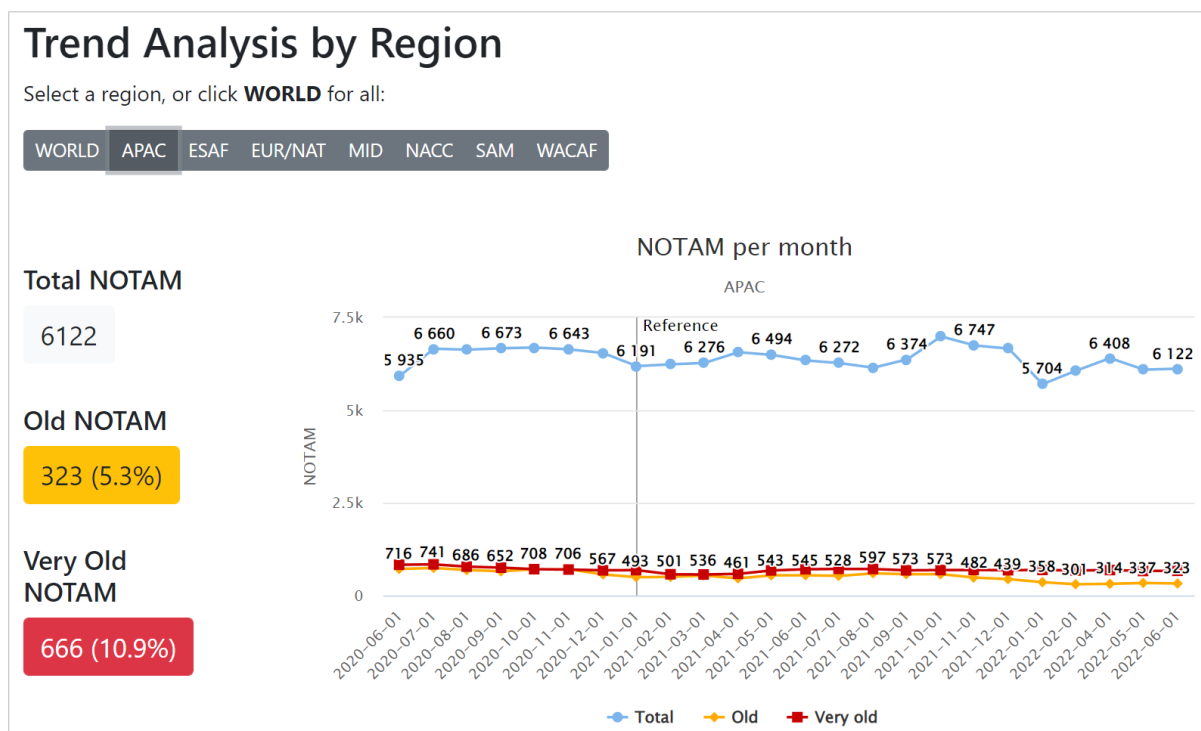


Figure 1: APAC NOTAM Statistics (Total, old and very old)

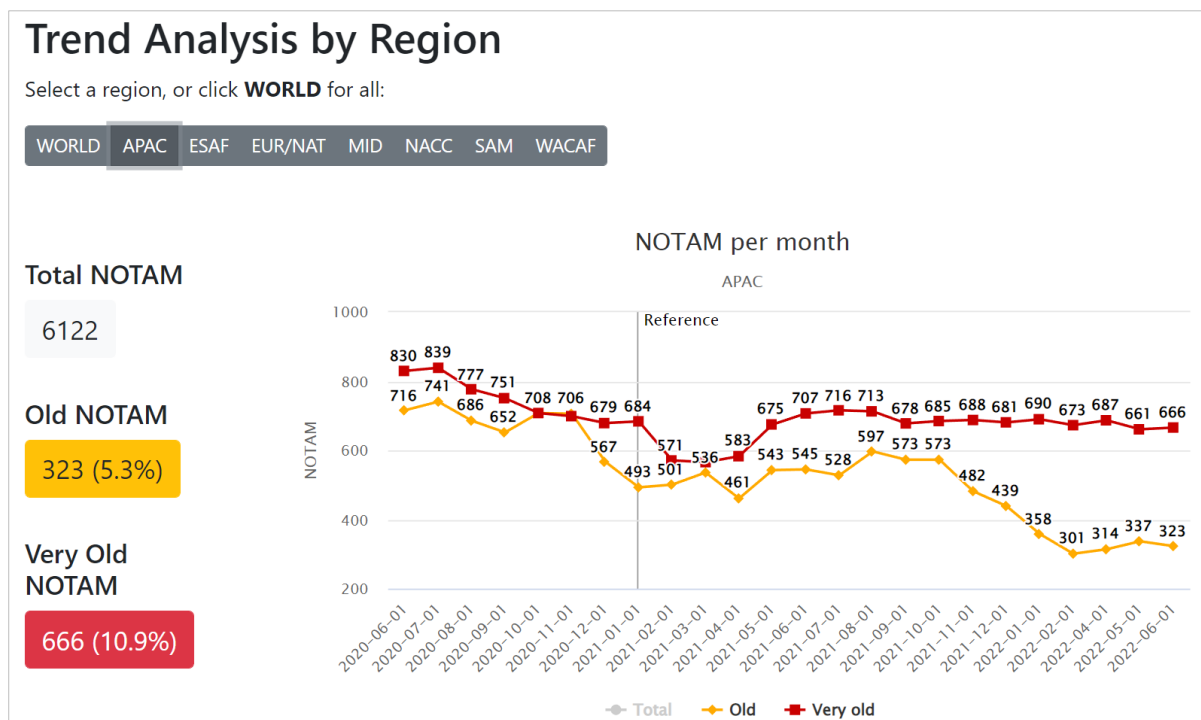
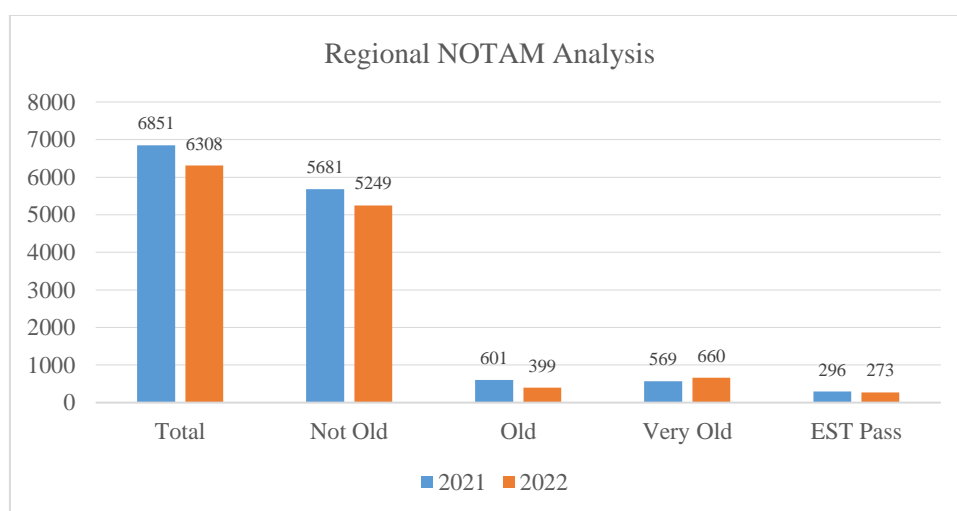


Figure 2: Asia/Pacific NOTAM Statistics (old and very old)

2.4 As shown in the **Figure 2**, Asia/Pacific Region had a good downtrend for old NOTAMs. However, the number of very old NOTAMs has not been decreased since September 2021.

2.5 **Figure 3** illustrates a brief result of Asia/Pacific Regional NOTAM Analysis of 2021 and 2022. As shown in the Figure 3, number of valid, old and EST passed NOTAMs have been decreased. However, the number of very old NOTAMs has been increased compared with 2021.



2.6 **Table 1** shows details of Asia/Pacific Regional NOTAM analysis of 2021 and 2022.

Administrations	Regional NOTAM Analysis (2021, as of 25 th May)					Regional NOTAM Analysis (2022, as of 10 th June)				
	Total	NO	O	VO	EST Pass	Total	NO	O	VO	EST Pass
Afghanistan	95	94	1	0	1	59	58	1	0	1

Administrations	Regional NOTAM Analysis (2021, as of 25 th May)					Regional NOTAM Analysis (2022, as of 10 th June)				
	Total	NO	O	VO	EST Pass	Total	NO	O	VO	EST Pass
Australia	530	460	68	2	3	585	520	64	1	14
Bangladesh	32	31	0	1	1	29	26	2	1	1
Bhutan	0	0	0	0	0	0	0	0	0	0
Brunei Darussalam	0	0	0	0	0	0	0	0	0	0
Cambodia	7	7	0	0	1	8	8	0	0	0
China	1127	945	153	29	2	1145	979	125	41	1
Cook Islands	0	0	0	0	0	4	4	0	0	3
DPR Korea	10	0	0	10	8	10	0	0	10	8
Fiji	53	47	5	1	1	48	46	1	1	1
Hong Kong, China	26	24	0	2	1	20	19	1	0	0
India	1127	655	175	297	132	935	468	73	394	134
Indonesia	196	104	1	91	36	191	108	0	83	36
Japan	1113	1080	31	2	1	1113	1109	3	1	6
Kiribati	2	1	1	0	0	6	5	0	1	0
Lao PDR	41	7	13	21	0	35	3	0	32	0
Macao, China	14	11	0	3	0	14	13	1	0	0
Malaysia	296	293	2	1	0	283	265	16	2	0
Maldives	28	12	13	3	8	16	14	2	0	0
Marshall Islands	34	30	0	4	0	22	18	0	4	0
Micronesia	18	14	0	4	0	0	0	0	0	0
Mongolia	11	11	0	0	0	15	15	0	0	0
Myanmar	11	6	5	0	6	11	9	2	0	2
Nauru	25	4	3	18	17	29	7	1	21	18
Nepal	1	0	0	1	0	1	0	0	1	0
New Zealand	107	101	6	0	0	132	127	5	0	1
Pakistan	60	55	5	0	0	38	38	0	0	0
Palau	0	0	0	0	0	0	0	0	0	0
Papua New Guinea	132	101	28	3	5	84	57	20	7	4
Philippines	440	307	75	58	71	471	374	54	43	38
Republic of Korea	596	595	1	0	0	583	582	1	0	0
Samoa	10	3	0	7	0	5	3	0	2	0
Singapore	447	447	0	0	0	104	103	1	0	0
Solomon Islands	21	18	1	2	0	30	23	6	1	0
Sri Lanka	28	25	1	2	0	31	28	1	2	0
Thailand	108	98	4	6	1	163	153	1	9	2
Timor Leste	7	3	4	0	0	19	12	4	3	2
Tonga	4	4	0	0	0	3	3	0	0	0
Tuvalu	0	0	0	0	0	0	0	0	0	0
Vanuatu	20	20	0	0	0	7	7	0	0	0
Viet Nam	74	68	5	1	1	59	45	14	0	1
<i>Note:</i>	<i>NO – Not Old NOTAM</i> <i>O – Old NOTAM</i> <i>VO – Very old NOTAM</i> <i>EST PASS – EST Passed NOTAM</i>									

Table 1: NOTAM statistics of Asia/Pacific Administrations

2.7 **Table 2** shows the top 10 NOTAM-promulgating APAC Administrations (as of 10th June). These Administrations promulgated **88.7%** of all APAC NOTAM, including **86.5%** of APAC old and very old NOTAM.

No	Administrations	Total NOTAM	Old NOTAM	Very Old NOTAM	Percent of old and very old NOTAM
1	China	1145	125	41	14.5%
2	Japan	1113	3	1	0.4%
3	India	935	73	394	49.9%
4	Australia	585	64	1	11.1%
5	Republic of Korea	583	1	0	0.2%
6	Philippines	471	54	43	20.6%
7	Malaysia	283	16	2	6.4%
8	Indonesia	191	0	83	43.5%
9	Thailand	163	1	9	6.1%
10	New Zealand	132	5	0	3.8%
		5601	342	574	16.4%

Table 2: Top 10 NOTAM-producing Administrations

2.8 **Table 3** shows the top 10 best performing administrations in this regard, (as of 10th June). Pakistan, Mongolia, Cambodia, Vanuatu, Cook Islands, Tonga each had zero old and very old NOTAM.

No	Administrations	Total NOTAM	Old NOTAM	Very Old NOTAM	Percent of old and very old NOTAM
1	Pakistan	38	0	0	0.0%
2	Mongolia	15	0	0	0.0%
3	Cambodia	8	0	0	0.0%
4	Vanuatu	7	0	0	0.0%
5	Cook Islands	4	0	0	0.0%
6	Tonga	3	0	0	0.0%
7	Republic of Korea	583	1	0	0.2%
8	Japan	1113	3	1	0.4%
9	Singapore	104	1	0	1.0%
10	Afghanistan	59	1	0	1.7%
		1934	6	1	0.4%

Table 3: Top 10 Best Performing Administrations – Old and Very Old NOTAM

2.9 **Table 4** shows Top 10 poorest performing Administrations in this regard (as of 10th June). These Administrations have **62.8%** of old and very old NOTAM in the APAC Region.

No	Administrations	Total NOTAM	Old NOTAM	Very Old NOTAM	Percent of old and very old NOTAM
1	DPR Korea	10	0	10	100.0%
2	Nepal	1	0	1	100.0%
3	Lao PDR	35	0	32	91.4%
4	Nauru	29	1	21	75.9%
5	India	935	73	394	49.9%
6	Indonesia	191	0	83	43.5%
7	Samoa	5	0	2	40.0%
8	Timor Leste	19	4	3	36.8%

9	Papua New Guinea	84	20	7	32.1%
10	Viet Nam	59	14	0	23.7%
		1368	112	553	48.6%

Table 4: Top 10 Poorest Performing Administrations – Old and Very Old NOTAM

2.10 One advantage of the Regional NOTAM Analysis is checking NOTAMs with EST indicated in NOTAM Item C). As of 10th June, a total of **273** current NOTAMs in the APAC Region had passed their EST duration, i.e. were overdue for review or cancellation.

2.11 The NOTAM procedures in ICAO Doc 10066 *Procedures for Air Navigation Services – Aeronautical Information Management* (PANS-AIM) Appendix 3 include the mandatory requirement that any NOTAM which has an EST duration shall be cancelled or replaced before the date-time specified in Item C).

2.12 Both the NOTAMeter and the Regional NOTAM Analysis have used the USA’s FAA Defense Internet NOTAM Service (DINS <https://www.notams.faa.gov/dinsQueryWeb/>) as a primary source. DINS is valuable source of worldwide NOTAMs. However, occasionally it contains some NOTAMs that are no longer current, due to reasons such as NOTAM Offices not consistently distributing their NOTAMs (NOTAMR, NOTAMC or NOTAM Checklist) to DINS, connection issues, etc.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) take immediate action to ensure full compliance with NOTAM procedures in ICAO Doc 10066 PANS-AIM and in accordance with **Conclusion ATM/SG/6-14**;
- c) ensure the consistent distribution of NOTAMN, NOTAMR, NOTAMC and NOTAM Checklists to international NOTAM Offices and multinational NOTAM processing units; and
- d) discuss any relevant matters as appropriate.

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