



18th Meeting of the ICAO AIS-AIM Implementation Task Force

19-23 June 2023, Bangkok, Thailand



NOTAM PROLIFERATION ANALYSIS

Presented by IFAIMA, in collaboration
with the Secretariat



Introduction

- AAITF Task '13/4 – Periodic sampling of NOTAM to examine the proliferation of PERM and long-term temporary NOTAMs' was assigned by AAITF/13
- AAITF/13 developed the following Conclusion, subsequently agreed by ATM/SG/6:



NOTAM

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.*



Introduction

- ICAO initiated Global Campaign on NOTAM Improvement (eliminate old NOTAMs)
- ICAO developed a tool the NOTAMETER
 - **Current** (less than 3 months)
 - **Old** (more than 3 months but less than 1 year)
 - **Very Old** (more than 1 year)

NOTAM Age Analysis (2022)



NOTAM Age Analysis (2023)



-3.3%

-4.1%

-4.5%

+9.7%

NOTAM2021

Working together to eliminate old NOTAM

Trend Analysis by Region

Select a region, or click **WORLD** for all:

WORLD APAC ESAF EUR/NAT MID NACC SAM WACAF

Total NOTAM

36189

Old NOTAM

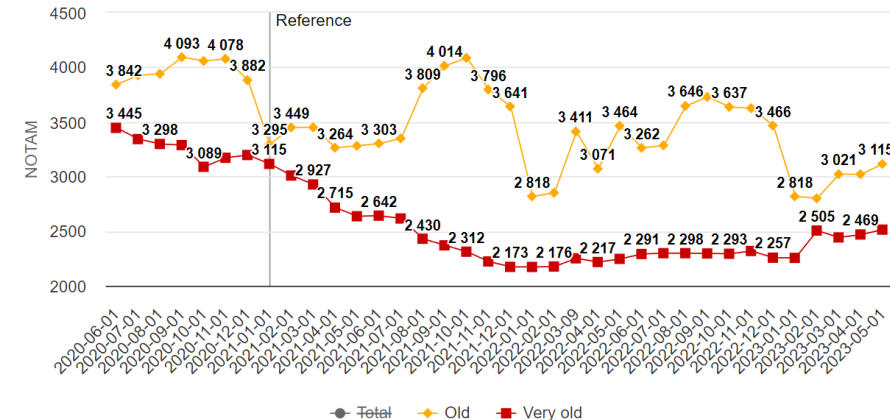
3115 (8.6%)

Very Old NOTAM

2514 (6.9%)

NOTAM per month

WORLD





NOTAM Analysis by Regional Office

– ICAO API Data Service (<https://applications.icao.int/dataservices/default.aspx>);



ICAO API DATA SERVICE



Welcome to ICAO API Data Service page

When registering with the API Data Service you will get an API key with 100 free calls to test ICAO APIs service.

START USING API

Enter a valid API key to use 100 free trial calls or to activate Booster pack calls

Enter API KEY

Enter Boosterpack code

Lost your key? [Recover your key](#)

NOT YET REGISTERED?

Click to register and an API key will be sent to your email shortly after.

Register Now

Please use a professional email address to receive the key

GET BOOSTER PACK CODE

To increase the number of calls, purchase one of API Booster packs (comes with an authorization code)

Visit ICAO Store



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JSON



CSV

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2023-06-02	id	startdate	enddate	all	Created	Item B)	Item C)	EST		Validity	Since Org	Status	EST Control		Total	Not Old	Old	Very Old	EST Pass
	B3369/19	2019-07-10T11:02:00.000Z	2100-02-01T00:00:00.000Z	B3369/19	10 Jul 2019	2019-07-10	2100-02-01			29426	1423	VO			81	77	1	3	1
	C0948/12	2012-12-18T23:00:00.000Z	2013-03-18T08:00:00.000Z	C0948/12	01 Dec 2014	2012-12-18	2013-03-18	EST D)		90	3105	VO	PASS						
	C0423/13	2013-07-16T05:43:00.000Z	2100-02-01T00:00:00.000Z	C0423/13	23 Sep 2013	2013-07-16	2100-02-01			31611	3539	VO							
	B0375/23	2023-03-10T22:00:00.000Z	2023-06-10T15:00:00.000Z	B0375/23	01 Mar 2023	2023-03-10	2023-06-10			92	93	O							
	B0998/23	2023-05-27T12:44:00.000Z	2023-08-15T23:59:00.000Z	B0998/23	27 May 2023	2023-05-27	2023-08-15			80	0	NO							



Trend Analysis by Region

Select a region, or click **WORLD** for all:

- WORLD
- APAC
- ESAF
- EUR/NAT
- MID
- NACC
- SAM
- WACAF

Total NOTAM

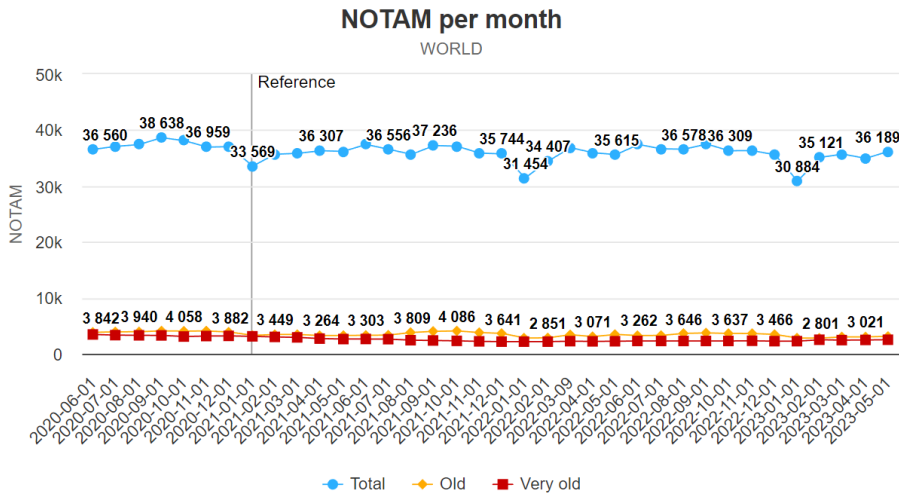
36189

Old NOTAM

3115 (8.6%)

Very Old NOTAM

2514 (6.9%)



Trend Analysis by Region

Select a region, or click **WORLD** for all:

- WORLD
- APAC
- ESAF
- EUR/NAT
- MID
- NACC
- SAM
- WACAF

Total NOTAM

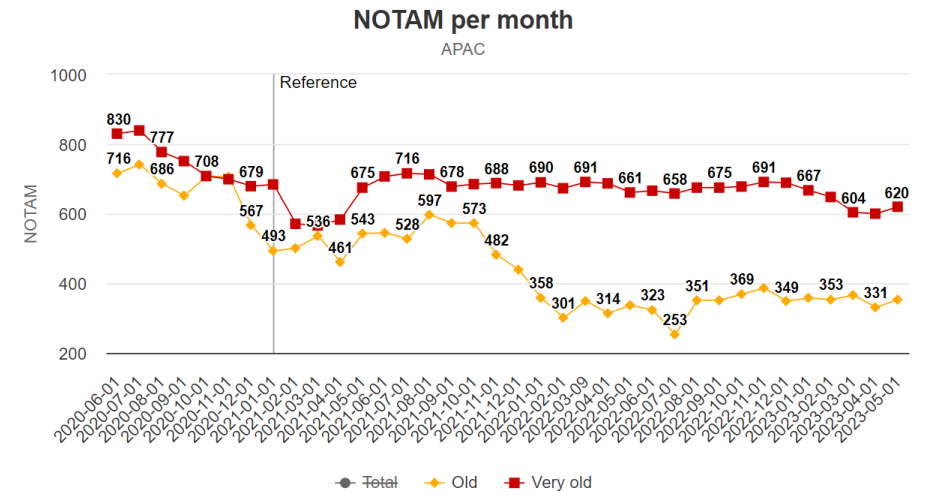
6110

Old NOTAM

353 (5.8%)

Very Old NOTAM

620 (10.1%)



APAC is producing:

- 17% of World NOTAM (+1%)
- 11% of World old NOTAM (+1%)
- 25% of World very old NOTAM (-4%)

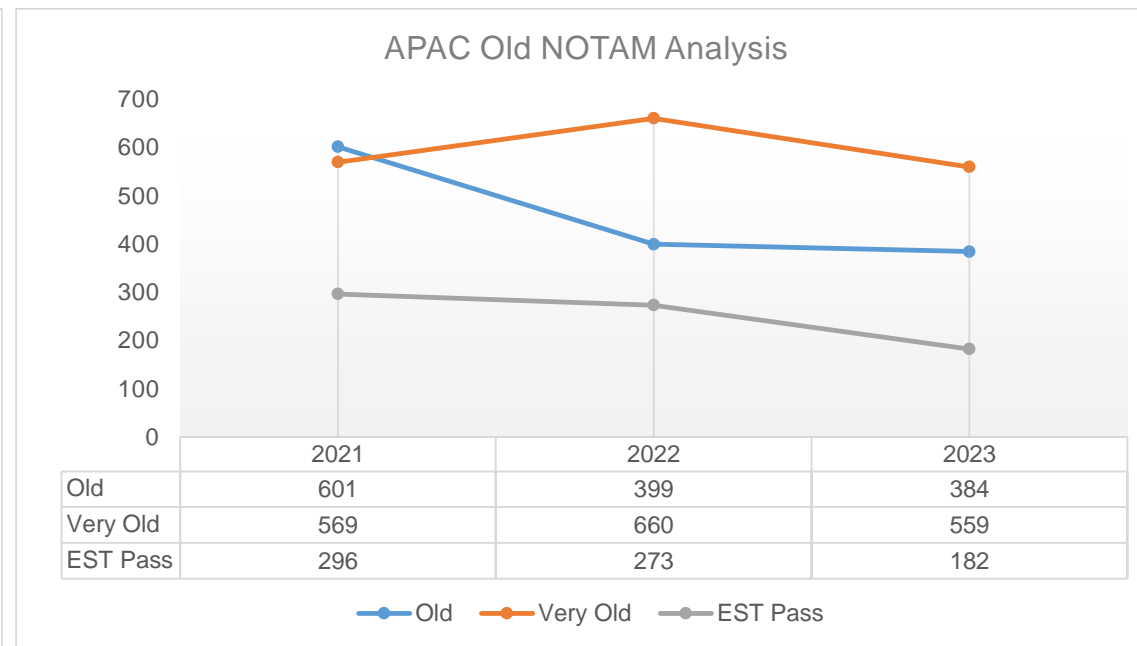
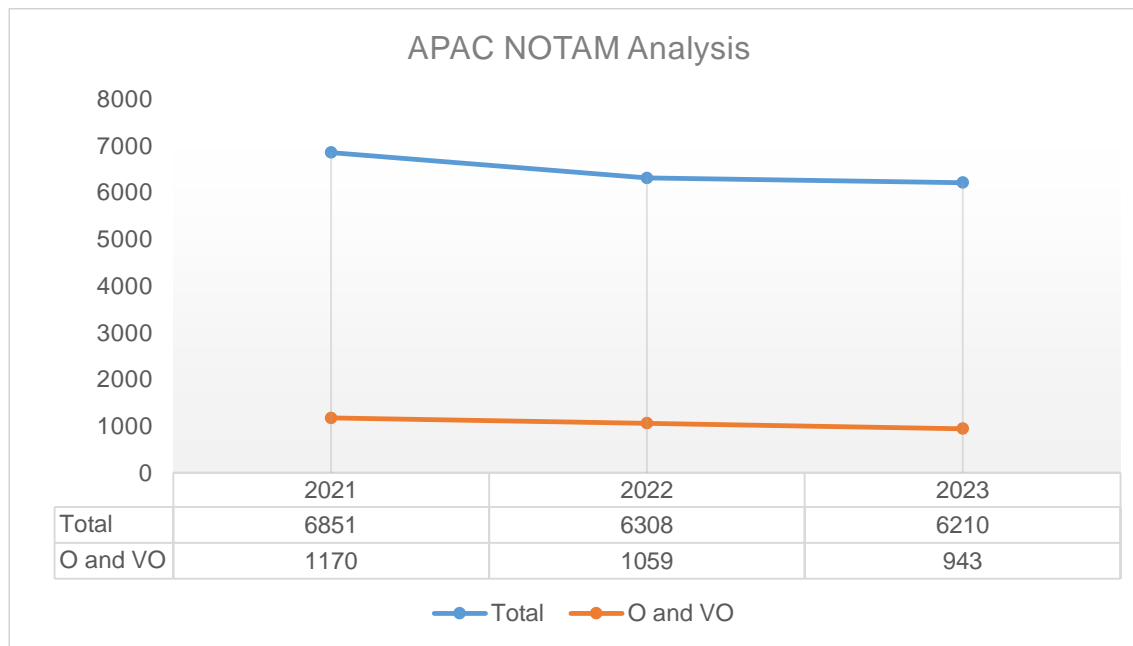
- Very Old NOTAM decreased by 46 (6.9%)
- Old NOTAM increased by 30 (9.3%)





Regional NOTAM Analysis - 2023

- Cover 41 Administrations including 2 Special Administrative Regions of China
- Check EST Passed NOTAM



Old	-37% (2021)	- 4% (2022)
Very Old	- 2% (2021)	-15% (2022)
EST Pass	-39% (2021)	-33% (2022)



Regional NOTAM Analysis - 2023

- Details of analysis shown in Table 1 of WP
- Following 13 Administrations (compared to 6 Administrations at AITF/17) had zero old and very old NOTAMs:
 - Singapore, Afghanistan, Fiji, Hong Kong China, Sri Lanka, Mongolia, Vanuatu, Cambodia, Nauru, Tonga, Cook Islands, Palau and Tuvalu
- Indonesia has eliminated 80 of 83 old NOTAMs and decreased percent of old NOTAMs by 39.8%.



Administrations	Regional NOTAM Analysis (2022, as of 10 th June)					Regional NOTAM Analysis (2023, as of 02 nd June)				
	Total	NO	O	VO	EST Pass	Total	NO	O	VO	EST Pass
Afghanistan	59	58	1	0	1	61	61	0	0	0
Australia	585	520	64	1	14	621	559	54	8	2
Bangladesh	29	26	2	1	1	30	29	1	0	0
Bhutan	-	-	-	-	-	-	-	-	-	-
Brunei Darussalam	-	-	-	-	-	-	-	-	-	-
Cambodia	8	8	0	0	0	7	7	0	0	0
China	1145	979	125	41	1	1197	1013	135	49	1
Cook Islands	4	4	0	0	3	2	2	0	0	0
DPR Korea	10	0	0	10	8	10	0	0	10	8
Fiji	48	46	1	1	1	29	29	0	0	0
Hong Kong, China	20	19	1	0	0	17	17	0	0	0
India	935	468	73	394	134	888	440	78	370	140
Indonesia	191	108	0	83	36	81	78	0	3	1
Japan	1113	1109	3	1	6	1145	1143	1	1	0
Kiribati	6	5	0	1	0	1	0	0	1	0
Lao PDR	35	3	0	32	0	19	1	0	18	0
Macao, China	14	13	1	0	0	10	9	1	0	0
Malaysia	283	265	16	2	0	276	249	19	8	1
Maldives	16	14	2	0	0	16	15	1	0	0
Marshall Islands	22	18	0	4	0	16	12	0	4	0
Micronesia	0	0	0	0	0	5	0	3	2	0
Mongolia	15	15	0	0	0	13	13	0	0	0
Myanmar	11	9	2	0	2	12	10	1	1	0
Nauru	29	7	1	21	18	6	6	0	0	0
Nepal	1	0	0	1	0	1	0	0	0	0
New Zealand	132	127	5	0	1	101	97	0	0	0
Pakistan	38	38	0	0	0	54	5	0	0	0
Palau	0	0	0	0	0	2	0	0	0	0
Papua New Guinea	84	57	20	7	4	85	57	0	0	0
Philippines	471	374	54	43	38	471	374	54	43	38
Republic of Korea	583	582	1	0	0	583	582	1	0	0

NO – Not Old NOTAM
 O – Old NOTAM
 VO – Very old NOTAM
 EST PASS – EST Passed NOTAM



NOTAM-promulgating Administrations

- **89.8%** of all APAC NOTAMs
- **89.1%** of all APAC old and very old NOTAMs

No	Administrations	Total NOTAM	Old NOTAM	Very Old NOTAM	Percent of old and very old NOTAM
1	China	1197	135	49	15.4%
2	Japan	1145	1	1	0.2%
3	India	888	78	370	50.5%
4	Australia	621	54	8	10.0%
5	Republic of Korea	588	1	0	0.2%
6	Philippines	443	52	52	23.5%
7	Malaysia	276	19	8	9.8%
8	Thailand	198	2	6	4.0%
9	Singapore	123	0	0	0.0%
10	New Zealand	101	4	0	4.0%
		5580	346	494	15%

(as of 02 June 2023)



Poorest Performing Administrations

- **16.9%** of all APAC NOTAMs
- **55.5%** of all APAC old and very old NOTAMs

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	Micronesia	5	3	2	100.0%
3	Kiribati	1	0	1	100.0%
4	Nepal	1	0	1	100.0%
5	Lao PDR	19	0	18	94.7%
6	Timor Leste	15	8	1	60.0%
7	India	888	78	370	50.5%
8	Samoa	5	0	2	40.0%
9	Solomon Islands	21	5	1	28.6%
10	Papua New Guinea	85	13	11	28.2%
		1050	107	417	49.9%

(as of 02 June 2023)



DINS

- primary source of NOTAMETER and Regional NOTAM Analysis
- may have inconsistency:
 - connection issue (between DINS and States)
 - State stopped sending their NOTAM to DINS
 - Other reason

G0387/23 NOTAMR G1200/18

Q) /QPDCH/IV/BO /E /000/999/1523N07350E025
 A) B) 2305171204 C) 2306150000
 E) REFER AIP SUP 36/2015 REGARDING RNAV 1 (GNSS) SIDS AND STARS -

G1200/18 NOTAMN

Q) /QPIXX/I /NBO/A /000/999/1523N07350E005
 A) B) 1809130000 C) PERM
 E) REFER AIP SUPPLEMENT 36/2015 REGARDING RNAV 1 (GNSS) SIDS AND STARS -

The screenshot shows the DINS website header with logos for the Department of the Air Force, Department of the Army, Department of the Navy, and Department of the Joint Chiefs of Staff. The main title is "Defense Internet NOTAM Service" with "DINS" in large letters and "AIR FORCE • ARMY • NAVY • MARINE CORPS" below it. A timestamp reads "Thu, 27 May 2021 10:00:23 (UTC)". A yellow banner states: "NEW! *ATTENTION AIRCREWS* US NOF exchanges NOTAM data with partner International NOTAM Offices throughout the world. While DINS pulls and displays all NOTAMs received by the US NOF, users need to be aware that DINS may not have received all NOTAMs for a specific location, which in turn could affect DINS coverage. Accordingly, users should check Host Nation AIP and FCG for supplementary NOTAM information to ensure complete NOTAM coverage. (More info...)"

The main content area includes a "NOTAM Retrieval" section with a "Text Type" dropdown set to "Raw" and a search input field. A "View NOTAMs" button and a "Reset" button are below the input field. A "New!" callout indicates: "Graphical NOTAM now available for NOTAM Retrieval by ICAO Identifiers for Military Airfields only." Below this is a link for "FAA Special Use Airspace(SUA) Information" with a note: "Always Check Attention Notices for the most up to date information on DoD flight planning. See Advanced NOTAM Functions below. The U.S. NOTAM office specialists do not provide NOTAM briefings."

On the right side, there are two menu sections: "DINS CCR Functions" (Primary DINS CCR Site, Secondary DINS CCR Site, Request or Install DINS Certificates) and "DINS Search Utilities" (Secondary DINS Query Site, Dynamic ICAO Look-up, Static ICAO Listing, Q-Code Combination Search, ICAO Contractions (7340.2)).

<https://www.notams.faa.gov/dinsQueryWeb/>



Very old NOTAMs

- All very old NOTAM numbers are listed in Attachment A of WP by each administrations
- Administrations are urged to review very old NOTAMs and take immediate actions to eliminate as soon as possible



List of very old NOTAMs

No	Administrations	Year	Very old NOTAM numbers
1	India	2001	C0273/01
		2002	C0015/02, C0026/02, C0249/02, C0284/02, C0354/02
		2003	B0020/03, C0043/03, C0090/03, C0151/03, C0284/03, C0311/03, G0045/03
		2004	C0104/04, C0111/04, C0289/04, C0505/04, C0694/04, D0071/04
		2005	C0094/05, C0665/05, C0730/05
		2006	C0009/06, C0010/06, C0034/06, C0127/06, C0146/06, C0152/06
		2007	C0144/07, C0192/07, C0211/07, C0310/07, C0598/07
2	Philippines	2020	B3292/20, B3290/20, B3288/20, B3286/20, B3280/20, B3282/20, B3278/20, B3276/20, B3272/20
		2021	B2447/21, C0916/21, C0914/21, C0540/21, C0616/21, C1052/21, C1050/21, C1059/21, B1352/21
		2022	C0288/22, C0398/22, C0287/22, C0393/22, C0390/22, B0860/22, C0154/22, C0379/22, C0378/22, C0387/22, C0389/22, C0391/22, C0449/22, C0384/22, C0350/22, C0388/22, C0392/22, C0395/22, C0156/22, C0394/22, C0397/22, C0396/22, C0417/22, C0326/22, B0933/22, B0791/22, B0954/22, B0241/22, B1027/22
3	China	2004	C1167/04, C1168/04
		2012	C0466/12
		2014	E5022/14
		2015	G0053/15, G0052/15
		2019	G2779/19, E2772/19, A5048/19, A5047/19, A6528/19, A1833/19
		2020	G2318/20, W0763/20, G1043/20, A2216/20, A2358/20, A0092/20, A4272/20, A2216/20, A0030/20, A2333/20, A2338/20, A2216/20
		2021	F6354/21, Y1537/21, E0304/21, F7316/21, A0244/21, A0245/21, A0243/21, A0242/21, A0330/21, A2283/21, A0566/21, A0027/21
		2022	U1779/22, U1778/22, U1053/22, U1052/22, F1541/22, G0984/22, F1086/22, U1935/22, U1055/22, A0887/22, A0712/22, A0887/22, A0887/22
		4	Lao PDR
5	Papua New Guinea	2019	A0461/19, A0655/19
		2020	C0092/20
		2021	A0327/21, A1656/21, A0377/21
		2022	A0178/22, A0177/22, A0176/22, A0079/22, A0058/22
6	DPR Korea	2009	A0050/09
		2011	A0145/11



EST Passed NOTAM

- As of 2nd June 2023, **12** Administrations (decreased by 6) have a total **182** (decreased by 91) EST Passed NOTAMs
- Some of them are invalid, but still active in the DINS

C0382/23 NOTAMN
 Q) /QLAAS/IV/NBO/A /000/999/1448N12016E005
 A) B) 2304220752 C) 2304300900 EST
 E) SALS RWY 07 U/S.

C1134/20 NOTAMN
 Q) /QNBXX/IV/BO/AE/000/999/
 A) B) 2009080430 C) 2010152359 EST
 E) NDB KS 282KHZ NOT AVBL

States urged to take immediate actions
 to cancel or replace **EST Passed**
 NOTAMs

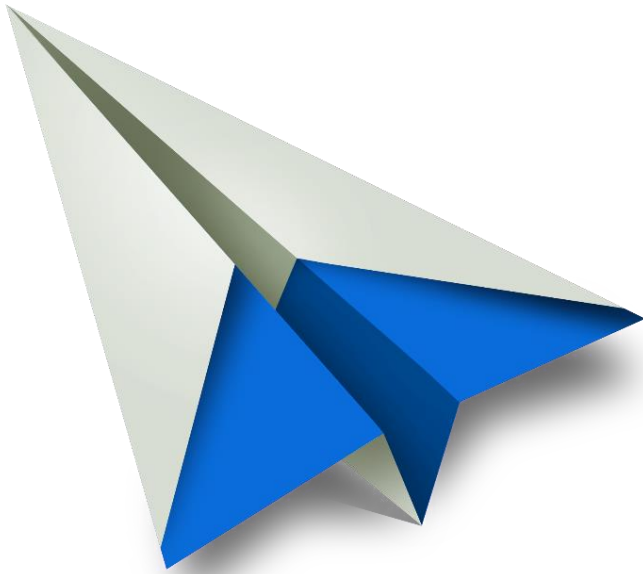
1	India	140
2	Philippines	18
3	DPR Korea	8
4	Papua New Guinea	3
5	Viet Nam	3
6	Australia	2
7	Myanmar	2
8	Nauru	2
9	China	1
10	Malaysia	1
11	Indonesia	1
12	Timor Leste	1



The meeting is invited to:

AAITF/18

- note the information contained in this paper;
- 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**;
- ensure the consistent distribution of NOTAMN, NOTAMR, NOTAMC and NOTAM Checklists to international NOTAM Offices and multinational NOTAM processing units; and
- discuss any relevant matters as appropriate.



**THANK YOU FOR YOUR
ATTENTION**