



16th Meeting of the ICAO AIS-AIM Implementation Task Force

07-11 June 2021, Video Teleconference



NOTAM PROLIFERATION ANALYSIS

Presented by IFAIMA



Introduction

- AAITF Task '13/4 – Periodic sampling of NOTAM PIB 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*)

NOTAM2021

Working together to eliminate old NOTAM

NOTAM Age Analysis



● Current ● Old ● Very old

Trend Analysis by Region

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

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

Total NOTAM

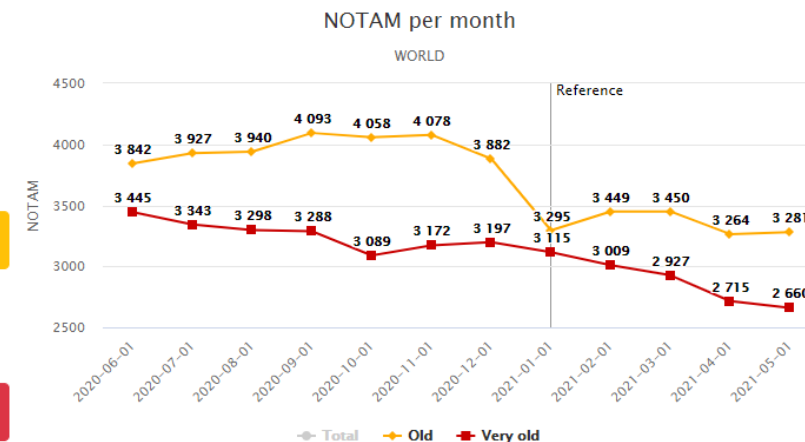
36221

Old NOTAM

3281 (9.1%)

Very Old NOTAM

2660 (7.3%)

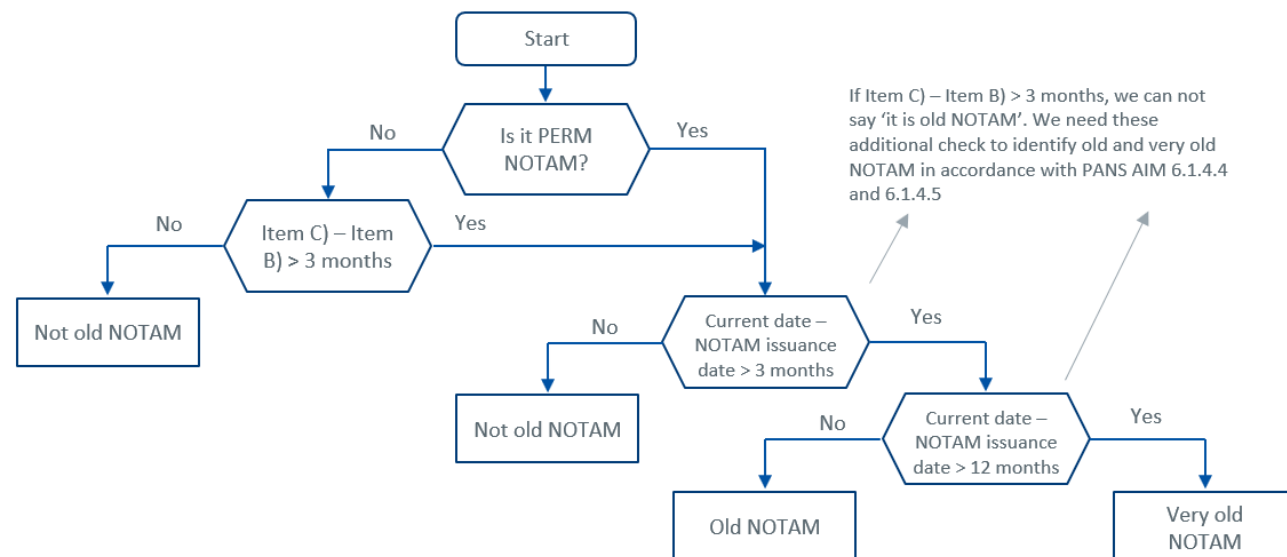




NOTAM Analysis - 2021 by APAC RO and IFAIMA

- NOTAMETER
- Regional Methodology (ICAO API Data Service)
- Identification of EST passed NOTAM

Algorithm for identifying old and very old NOTAMs



(G0157/21 NOTAMR G2593/20
 Q) /QFHAP/IV/B/A/000/999/3151N06413E005
 A) B) 2102011130 C) **2104302359 EST**
 E) ARRIVALS TO ARE NOT AUTHORIZED.)

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
|------------|----------|--------------------------|--------------------------|----------|-------------|------------|------------|--------|---|----------|-----------|--------|-------------|---|-------|---------|-----|----------|----------|
| 2021-05-25 | id | startdate | enddate | all | Created | Item B) | Item C) | EST | | Validity | Since Org | Status | EST Control | | Total | Not Old | Old | Very Old | EST Pass |
| | G0797/21 | 2021-05-23T05:45:00.000Z | 2021-06-23T05:45:00.000Z | G0797/21 | 23 May 2021 | 2021-05-23 | 2021-06-23 | EST E) | | 31 | 0 | NO | OK | | 95 | 94 | 1 | 0 | 1 |
| | G0796/21 | 2021-05-23T05:45:00.000Z | 2021-06-23T05:45:00.000Z | G0796/21 | 23 May 2021 | 2021-05-23 | 2021-06-23 | EST E) | | 31 | 0 | NO | OK | | | | | | |



Trend Analysis by Region

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

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

Total NOTAM

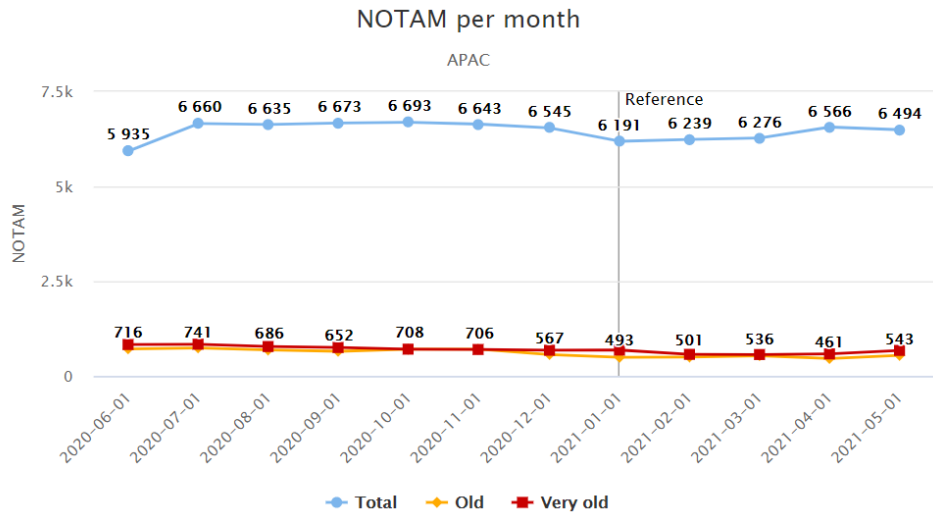
6494

Old NOTAM

543 (8.4%)

Very Old NOTAM

675 (10.4%)



APAC producing:

- 18% of World NOTAM (36221)
- 17% of World old NOTAM (3281)
- 25% of World very old NOTAM (2660)

Trend Analysis by Region

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

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

Total NOTAM

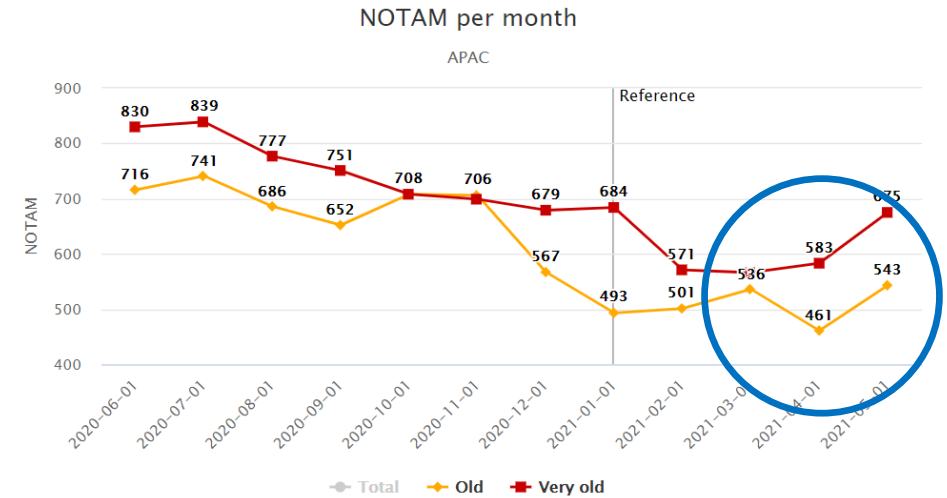
6494

Old NOTAM

543 (8.4%)

Very Old NOTAM

675 (10.4%)



- Very Old NOTAM increased by 139 (26%)
- Old NOTAM increased by 82 (18%)





Regional NOTAM Analysis - 2021

- Cover 41 Administrations including 2 Special Administrative Regions of China
- Check EST Passed NOTAM
- Some States information may be incorrect such as DPRK, Nepal etc.,

(A0028/21 NOTAMR A0020/21

Q) ZKKP/QK/000/999/4041N12911E999

A) ZKKP B) 2105010454 C) 2106012359 EST

E) CHECKLIST

YEAR=2021 0014 0023 0025 0026

LATEST PUBLICATIONS

AIRAC AIP AMDT: 01/20

VNSM FIR

**A0088/B0005/
C0048/21**

FROM 2105010315 TO 2106010415EST
CHECKLIST

SERIES A

YEAR=2021 0044 0056 0074

SERIES B

YEAR=2021 NIL

SERIES C

YEAR=2021 0015 0029 0035 0039 0040 0041 0043 0046 0047

| Administrations | NOTAMeter (as of 1 st May) | | | | | Regional Analysis (as of 25 th May) | | | | | |
|-------------------|---------------------------------------|-----|------|-----|------|--|------|-----|-----|--------|----------|
| | Total | O | O % | VO | VO % | Total | NO | O | VO | O&VO % | EST Pass |
| Afghanistan | 97 | 6 | 6.2 | 0 | 0 | 95 | 94 | 1 | 0 | 1.1 | 1 |
| Australia | 523 | 50 | 9.6 | 3 | 0.6 | 530 | 460 | 68 | 2 | 13.2 | 3 |
| Bangladesh | 33 | 3 | 9.1 | 1 | 3 | 32 | 31 | 0 | 1 | 3.1 | 1 |
| Bhutan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 |
| Brunei Darussalam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 |
| Cambodia | 6 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 0.0 | 1 |
| China | 1064 | 163 | 15.3 | 28 | 2.6 | 1127 | 945 | 153 | 29 | 16.1 | 2 |
| Hong Kong, China | | | | | | 26 | 24 | 0 | 2 | 7.7 | 1 |
| Macao, China | | | | | | 14 | 11 | 0 | 3 | 21.4 | 0 |
| Cook Islands | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 |
| DPR Korea | 10 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 10 | 100.0 | 8 |
| Fiji | 57 | 3 | 5.3 | 1 | 1.8 | 53 | 47 | 5 | 1 | 11.3 | 1 |
| India | 1088 | 107 | 9.8 | 417 | 38.3 | 1127 | 655 | 175 | 297 | 41.9 | 132 |
| Indonesia | 199 | 6 | 3 | 91 | 45.7 | 196 | 104 | 1 | 91 | 46.9 | 36 |
| Japan | 1113 | 25 | 2.2 | 2 | 0.2 | 1113 | 1080 | 31 | 2 | 3.0 | 1 |
| Kiribati | 2 | 1 | 50 | 0 | 0 | 2 | 1 | 1 | 0 | 50.0 | 0 |
| Lao PDR | 41 | 34 | 82.9 | 0 | 0 | 41 | 7 | 13 | 21 | 82.9 | 0 |
| Malaysia | 236 | 1 | 0.4 | 1 | 0.4 | 296 | 293 | 2 | 1 | 1.0 | 0 |
| Maldives | 30 | 14 | 46.7 | 2 | 6.7 | 28 | 12 | 13 | 3 | 57.1 | 8 |
| Marshall Islands | 30 | 0 | 0 | 4 | 13.3 | 34 | 30 | 0 | 4 | 11.8 | 0 |

Note:
O – Old NOTAM
O % – Percent of Old NOTAM
VO – Very Old NOTAM
VO % – Percent of Very Old NOTAM
NO – Not Old NOTAM
O&VO % – Percent of Old and Very old NOTAM
EST PASS – EST Passed NOTAM



NOTAM-promulgating Administrations

- **87.6%** of all APAC NOTAMs
- **86.9%** 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 | 1127 | 153 | 29 | 16.1% |
| 2 | India | 1127 | 175 | 297 | 41.9% |
| 3 | Japan | 1113 | 31 | 2 | 3.0% |
| 4 | Republic of Korea | 596 | 1 | 0 | 0.2% |
| 5 | Australia | 530 | 68 | 2 | 13.2% |
| 6 | Singapore | 447 | 0 | 0 | 0.0% |
| 7 | Philippines | 440 | 75 | 58 | 30.2% |
| 8 | Malaysia | 296 | 2 | 1 | 1.0% |
| 9 | Indonesia | 196 | 1 | 91 | 46.9% |
| 10 | Papua New Guinea | 132 | 28 | 3 | 23.5% |
| | | 6004 | 534 | 483 | 16.9% |

(as of 25th May 2021)



Best Performing Administrations

- Singapore, Vanuatu, Mongolia, Cambodia, Tonga have ZERO old and very old NOTAM

| No | Administrations | Total NOTAM | Old NOTAM | Very Old NOTAM | Percent of old and very old NOTAM |
|----|-------------------|-------------|-----------|----------------|-----------------------------------|
| 1 | Singapore | 447 | 0 | 0 | 0.0% |
| 2 | Vanuatu | 20 | 0 | 0 | 0.0% |
| 3 | Mongolia | 11 | 0 | 0 | 0.0% |
| 4 | Cambodia | 7 | 0 | 0 | 0.0% |
| 5 | Tonga | 4 | 0 | 0 | 0.0% |
| 6 | Republic of Korea | 596 | 1 | 0 | 0.2% |
| 7 | Afghanistan | 95 | 1 | 0 | 1.1% |
| 8 | Bangladesh | 32 | 0 | 1 | 3.1% |
| 9 | Hong Kong China | 26 | 0 | 2 | 7.7% |
| 10 | Malaysia | 296 | 2 | 1 | 1.0% |
| | | 1534 | 4 | 4 | 0.5% |

(as of 25th May 2021)



Poorest Performing Administrations

- **69.5%** of all APAC NOTAMs
- **92.6%** 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 | India | 1127 | 175 | 297 | 41.9% |
| 2 | China | 1127 | 153 | 29 | 16.1% |
| 3 | Philippines | 440 | 75 | 58 | 30.2% |
| 4 | Indonesia | 196 | 1 | 91 | 46.9% |
| 5 | Australia | 530 | 68 | 2 | 13.2% |
| 6 | Lao PDR | 41 | 13 | 21 | 82.9% |
| 7 | Japan | 1113 | 31 | 2 | 3.0% |
| 8 | Papua New Guinea | 132 | 28 | 3 | 23.5% |
| 9 | Nauru | 25 | 3 | 18 | 84.0% |
| 10 | Maldives | 28 | 13 | 3 | 57.1% |
| | | 4759 | 560 | 524 | 22.8% |

(as of 25th May 2021)



G0122/92 NOTAMN

Q) /QFACS/IV/NBO/A /000/999/1304N07941E005

A) B) 9212170930 C) PERM

E) NAVAL AERODROME AT LOCATION N1304 E7941
ELEVATION 87M RWY 06L/24R BEARING 063/243 LENGTH 3365M SURFACE
CONCRETE/ASPHALT. LCN80. FLWG CCT AREA FOR OPN DURING DAY AND
NIGHT ESTABLISHED. CCT AREA A ALT 2000FT

1. 1256N 7929E
2. 1310N 7953E
3. 1317N 7950E
4. 1304N 7925E



29 Years
10399 Days
249576 Hours

G0503/21 NOTAMR G0424/21

Q) /QKKKK/K/K/K/000/999/

A) B) 2105010028 C) 2105312359 EST

E) CHECKLIST:

YEAR=1992 0122

YEAR=1999 0136

YEAR=2001 0047

YEAR=2007 0013

YEAR=2008 0094 0185

YEAR=2011 0050 0052 0059 0238 0251

YEAR=2012 0017 0023 0131 0196 0282 0418

YEAR=2013 0018 0020 0021 0330 0351 0417 0455 0483 0535
0538 0547

YEAR=2014 0009 0028 0054 0055 0208 0300 0441

YEAR=2015 0124 0133 0247 0261 0418 0419 0420 0471 0478
0570 0580

YEAR=2016 0185 0210 0218 0292 0339 0346 0389 0391

YEAR=2017 0174 0309 0536 0537 0539 0540 0614 0616

YEAR=2018 0120 1144 1146 1194 1196 1197 1198 1200 1201
1202 1288 1289 1411 1915 1972 1995

YEAR=2019 0158 0175 0177 0179 0181 0183 0185 0187 0232
0477 0478 0479 0505 0611 0647 0648 0649 0650 0651 0652
0653 0654 0829 0986 0992 1350 1438

YEAR=2020 0044 0141 0144 0171 0334 0402 0823 0875 0927
0981 0982 0983 0984 1196 1197 1213 1214 1215 1285 1286
1297 1298 1316 1317 1358 1369 1370 1371 1372 1373 1374
1377 1378 1379 1380 1381 1383 1384 1386 1387 1390 1391
1392 1393 1394 1395 1396



DINS

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

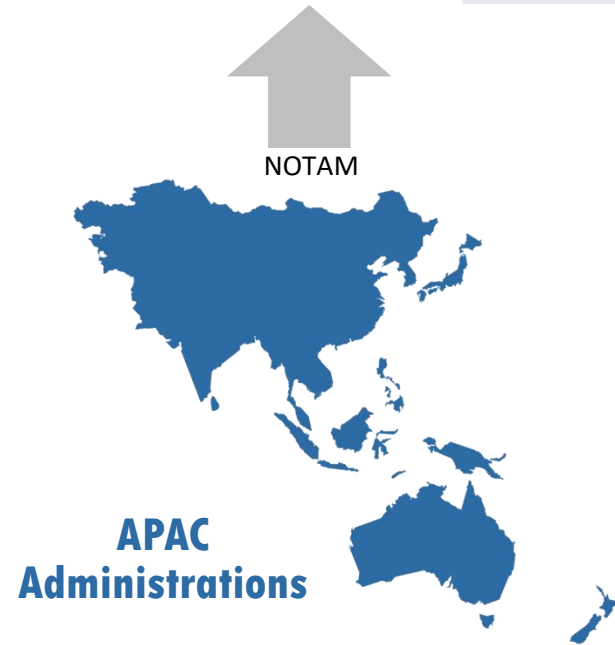
```
C0377/12 NOTAMR C0350/12
Q) /QXXAH/IV/BO/A/000/999/
A) B) 1204250625 C) 1210271630 EST
E) HRS OF OPS TWR 118.75 MHZ (TX/RX), ...
```

This NOTAM has been cancelled or replaced before Item C). However, this NOTAM is still active in the DINS and considered as old NOTAM.

DINS did not receive cancel or replace NOTAM from the State.

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

The screenshot shows the DINS website header with logos for the Department of Defense, Air Force, Army, Navy, and Marine Corps. Below the header is a navigation menu with links for Home, Updates, Contact Us, and FAQ. A main section titled 'NOTAM Retrieval' contains a text input field for ICAO identifiers, radio buttons for 'Report' and 'Raw' text types, and 'View NOTAMs' and 'Reset' buttons. A 'New!' alert indicates that graphical NOTAMs are now available for retrieval by ICAO identifiers for military airfields. On the right side, there are two vertical menus: 'DINS CCR Functions' with links to the primary and secondary CCR sites and certificate requests, and 'DINS Search Utilities' with links to the secondary query site, ICAO look-up, static ICAO listing, Q-code search, and ICAO contracts.





EST Passed NOTAM

- As of 25th May, 18 Administrations have a total 296 EST Passed NOTAMs
- Some of them are invalid, but still active in the DINS
- Red colored NOTAMs are valid, but not replaced or cancelled yet.
- Validity of Nauru, Maldives and Myanmar's NOTAM is not checked due to missing NOTAM Checklist



APAC Region can reduce old NOTAMs by **184 (15.7%)** removing these invalid NOTAMs from the DINS

States urged to take immediate actions to cancel or replace **red colored** NOTAM

| | | | | |
|----|------------------|---|---|----------|
| 8 | Papua New Guinea | 5 | A0163/17 A0689/18 A0232/21, A0305/21 C0092/20 | A0689/18 |
| 9 | Australia | 3 | F1559/21, F1570/21, N1428/21 | |
| 10 | China | 2 | A0929/21 C0466/12 | C0466/12 |
| 11 | Japan | 1 | M0054/20 | M0054/20 |
| 12 | Viet Nam | 1 | B0100/06 | B0100/06 |
| 13 | Fiji | 1 | A0218/16 | A0218/16 |
| 14 | Hong Kong, China | 1 | C0091/16 | C0091/16 |
| 15 | Afghanistan | 1 | G0157/21 | |
| 16 | Bangladesh | 1 | C0018/13 | C0018/13 |
| 17 | Cambodia | 1 | A0018/21 | |
| 18 | Thailand | 1 | H0633/27 | H0633/27 |

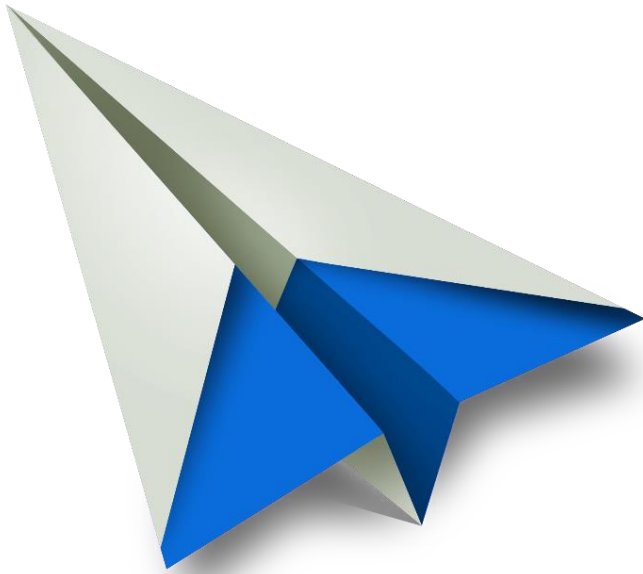
| | | |
|----|------------------|-----|
| 1 | India | 132 |
| 2 | Philippines | 71 |
| 3 | Indonesia | 36 |
| 4 | Nauru | 17 |
| 5 | Maldives | 8 |
| 6 | DPR Korea | 8 |
| 7 | Myanmar | 6 |
| 8 | Papua New Guinea | 5 |
| 9 | Australia | 3 |
| 10 | China | 2 |
| 11 | Japan | 1 |
| 12 | Viet Nam | 1 |
| 13 | Fiji | 1 |
| 14 | Hong Kong, China | 1 |
| 15 | Afghanistan | 1 |
| 16 | Bangladesh | 1 |
| 17 | Cambodia | 1 |
| 18 | Thailand | 1 |



The meeting is invited to:

- 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**