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# Status of IWXXM implementation in APAC

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Information Exchange Model (IWXXM), 27 to 29 October 2020





# 2020 Survey IWXXM/Extended AMHS

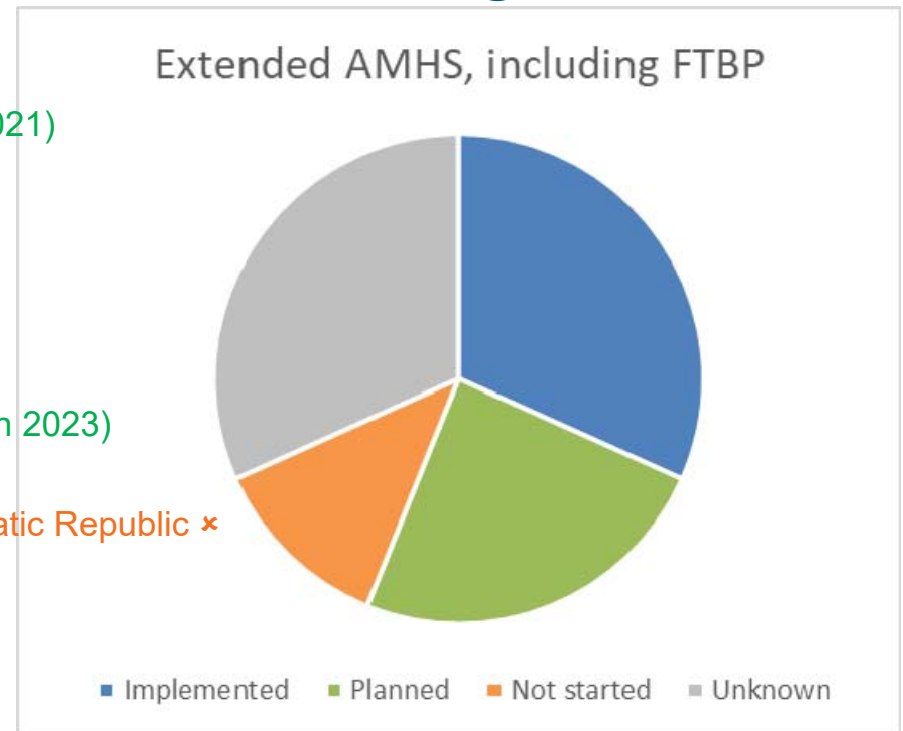
- |                                    |                                    |   |
|------------------------------------|------------------------------------|---|
| Australia ✓                        | Micronesia (Federated States of) ✓ | Afghanistan ✗                           |
| Bangladesh ✓                       | Mongolia ✓                         | Brunei Darussalam ✗                     |
| Bhutan ✓                           | Myanmar ✓                          | Democratic People's Republic of Korea ✗ |
| Cambodia ✓                         | New Zealand ✓                      | Kiribati ✗                              |
| China ✓                            | Pakistan ✓                         | Marshall Islands ✗                      |
| Hong Kong, China ✓                 | Philippines ✓                      | Nauru ✗                                 |
| Macao, China ✓                     | Republic of Korea ✓                | Nepal ✗                                 |
| Cook Islands ✓                     | Samoa ✓                            | Palau ✗                                 |
| Fiji ✓                             | Singapore ✓                        | Papua New Guinea ✗                      |
| India ✓                            | Solomon Islands ✓                  | Sri Lanka ✗                             |
| Indonesia ✓                        | Thailand ✓                         | Timor Leste ✗                           |
| Japan ✓                            | Vanuatu ✓                          | Tonga ✗                                 |
| Lao People's Democratic Republic ✓ | Viet Nam ✓                         | Tuvalu ✗                                |
| Malaysia ✓                         | United Kingdom ✓                   |   |
| Maldives ✓                         | United States ✓                    |   |



## 1.a. Implemented extended AMHS, including FTBP?

- Bangladesh ✓
- Bhutan ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Japan ✓
- Malaysia ✓
- Micronesia (Federated States of) ✓
- Myanmar ✓
- New Zealand ✓
- Philippines ✓
- Singapore ✓
- Thailand ✓
- Australia (Sep 2020)

- China (Oct 2020)
- Macao, China (Nov 2021)
- Fiji (Dec 2021)
- India (Apr 2021)
- Maldives (Oct 2021)
- Mongolia (Jan 2021)
- Pakistan (Dec 2020)
- Republic of Korea (Jun 2023)
- Viet Nam (Apr 2021)
- Lao People's Democratic Republic ✗
- Cook Islands ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗

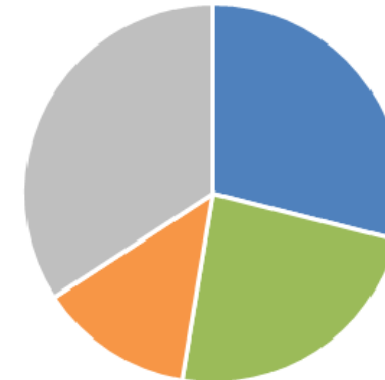




## 1.b. AMHS and FTBP – NOC to ROC?

- Bangladesh ✓
- Cambodia ✓
- Indonesia ✓
- Japan ✓
- Micronesia (Federated States of) ✓
- Myanmar ✓
- New Zealand ✓
- Philippines ✓
- Singapore ✓
- Solomon Islands ✓
- Thailand ✓
- Australia (Sep 2020)
- China (Oct 2020)
- Fiji (Dec 2021)
- India (Apr 2021)
- Macao, China (Nov 2021)
- Malaysia (Dec 2020)
- Maldives (Nov 2021)
- Republic of Korea (Jan 2023)
- Viet Nam (Apr 2021)
- Bhutan
- Cook Islands
- Lao People's Democratic Republic
- Mongolia
- Samoa

Extended AMHS, including FTBP  
NOC to ROC



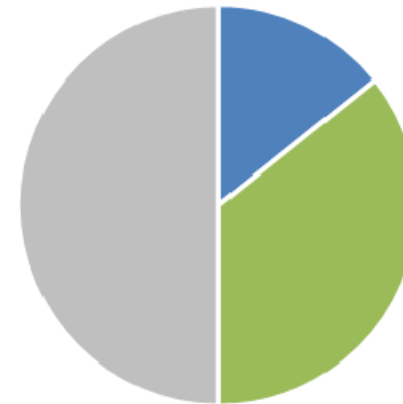
■ Established ■ Planned ■ Not started ■ Unknown



## 1.c. AMHS and FTBP – ROC to RODB?

- Singapore ✓
- Thailand ✓
- China (Oct 2020)
- Hong Kong, China (Oct 2020)
- Japan (Oct 2020)
- New Zealand (2021)
- Pakistan (Dec 2020)
- Australia
- Fiji
- India
- Indonesia
- Malaysia
- Republic of Korea
- Sri Lanka

Extended AMHS, including FTBP  
ROC to RODB



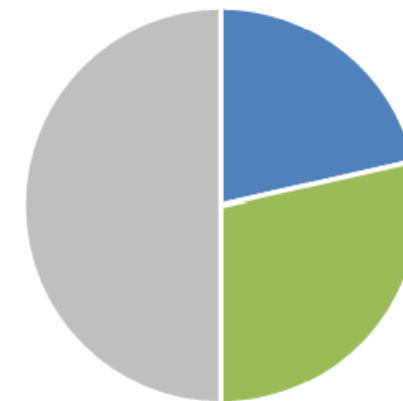
■ Established ■ Planned ■ Unknown



## 1.d. AMHS and FTBP – ROC to IROG?

- Japan ✓
- Singapore ✓
- Thailand ✓
- Australia (Oct 2020)
- China (Oct 2020)
- Hong Kong, China (Oct 2020)
- Pakistan (Dec 2020)
- Fiji
- India
- Indonesia
- Malaysia
- New Zealand
- Republic of Korea
- Sri Lanka

Extended AMHS, including FTBP  
ROC to IROG



■ Established ■ Planned ■ Unknown



## 1.e. RODB – storage of IWXXM?

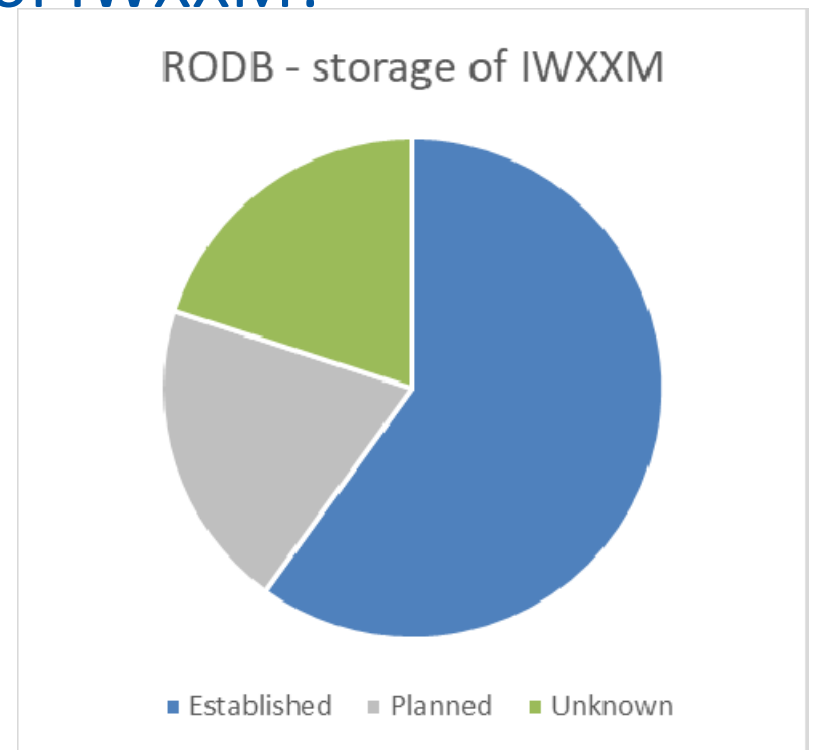
Japan ✓

Singapore ✓

Thailand ✓

Australia (Dec 2021)

Fiji





## 1.e. RODB – storage of IWXXM?

Thailand ✓

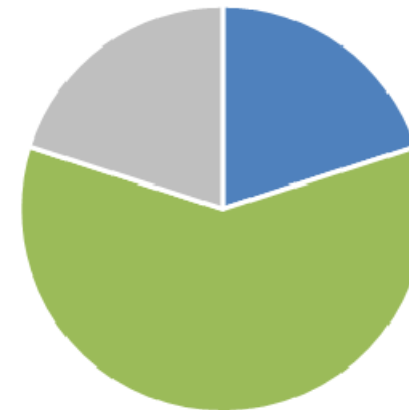
Australia (Dec 2021)

Japan (Mar 2021)

Singapore (Aug 2020)

Fiji

RODB - Request and reply  
IWXXM



■ Established ■ Planned ■ Unknown

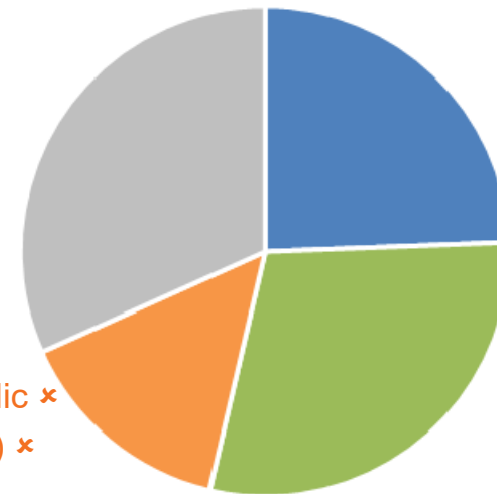


## 2.a. Implemented METAR/SPECI in IWXXM?

- Bangladesh ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Malaysia ✓
- Myanmar ✓
- New Zealand ✓
- Pakistan ✓
- Singapore ✓
- Thailand ✓
- Australia (Nov 2020)
- Bhutan (Jul 2021)
- China (Jan 2021)
- Fiji (Dec 2021)

- India (Apr 2021)
- Japan (Mar 2021)
- Macao, China (Nov 2021)
- Maldives (Sep 2021)
- Mongolia (Nov 2021)
- Philippines (May 2022)
- Republic of Korea (Nov 2020)
- Viet Nam (Jul 2021)
- Cook Islands ✗
- Lao People's Democratic Republic ✗
- Micronesia (Federated States of) ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗

Implemented METAR/SPECI in IWXXM



■ Implemented ■ Planned ■ Not started ■ Unknown

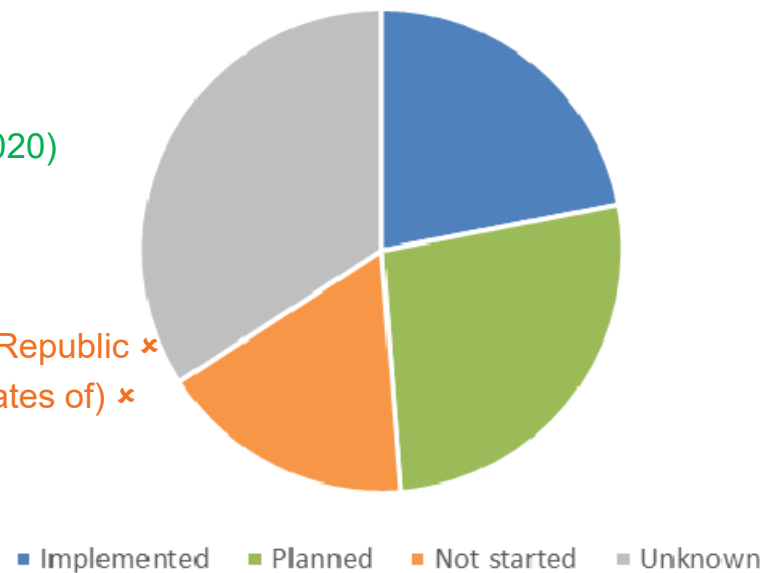


## 2.b. Implemented TAF in IWXXM?

- Bangladesh ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Myanmar ✓
- New Zealand ✓
- Pakistan ✓
- Singapore ✓
- Thailand ✓
- Australia (Nov 2020)
- China (Jan 2021)
- Fiji (Dec 2021)
- India (Apr 2021)
- Japan (Mar 2021)

- Macao, China (Nov 2021)
- Maldives (Sep 2021)
- Mongolia (Nov 2021)
- Philippines (May 2022)
- Republic of Korea (Nov 2020)
- Viet Nam (Jul 2021)
- Bhutan ✗
- Cook Islands ✗
- Lao People's Democratic Republic ✗
- Micronesia (Federated States of) ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗

Implemented TAF in IWXXM



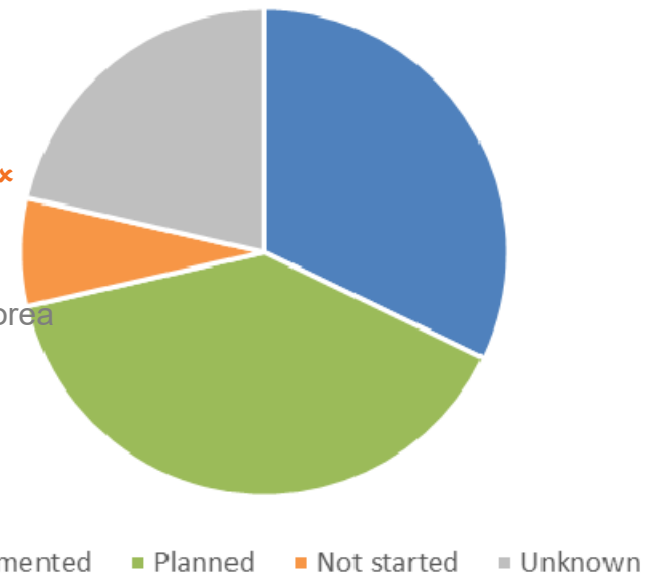


## 2.c. Implemented SIGMET in IWXXM?

- Bangladesh ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Malaysia ✓
- Myanmar ✓
- Pakistan ✓
- Singapore ✓
- Thailand ✓
- Australia (Nov 2020)
- China (Jan 2021)
- Fiji (Dec 2021)
- India (Apr 2021)
- Japan (Mar 2021)
- Maldives (Sep 2021)

- Mongolia (Nov 2022)
- New Zealand (Aug 2020)
- Philippines (May 2022)
- Republic of Korea (Nov 2020)
- Viet Nam (Oct 2021)
- Lao People's Democratic Republic ✗
- Solomon Islands ✗
- Afghanistan
- Democratic People's Republic of Korea
- Nauru
- Nepal
- Papua New Guinea
- Sri Lanka

Implemented SIGMET in IWXXM



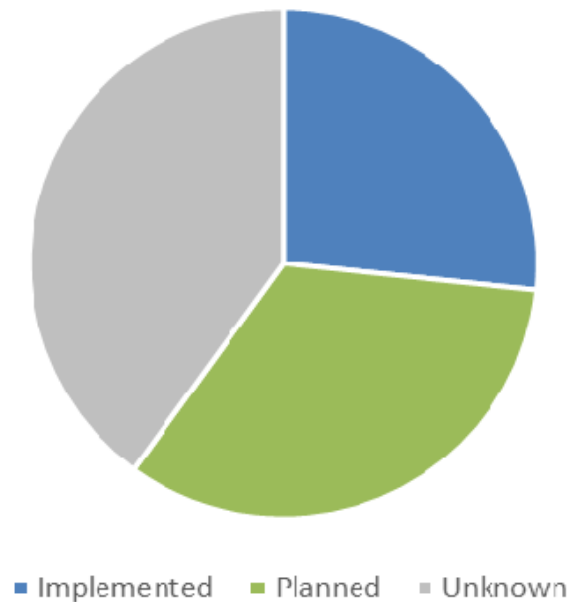


## 2.d. Implemented AIRMET in IWXXM?

- Cambodia ✓
- Malaysia ✓
- Myanmar ✓
- Pakistan ✓
- Australia (Nov 2020)
- China (Jan 2021)
- Fiji (Dec 2021)
- Mongolia (Nov 2023)
- Republic of Korea (Nov 2020)

- Afghanistan
- Democratic People's Republic of Korea
- Nauru
- Nepal
- Papua New Guinea
- Sri Lanka

Implemented AIRMET in IWXXM





## 2.e. Implemented VAA in IWXXM? 2.f. Implemented TCA in IWXXM?

### VAA

Australia (Nov 2020)

Japan (Mar 2021)

New Zealand (Aug 2020)

### TCA

Australia (Nov 2020)

Fiji (Dec 2021)

India (Apr 2021)

Japan (Nov 2020)

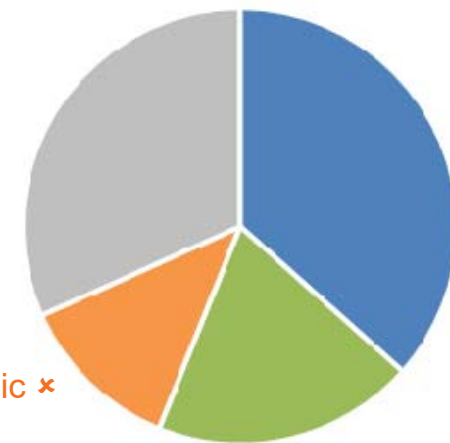


### 3. Implemented telecommunications for IWXXM?

- Bangladesh ✓
- Bhutan ✓
- Cambodia ✓
- India ✓
- Japan ✓
- Malaysia ✓
- Maldives ✓
- Micronesia (Federated States of) ✓
- Mongolia ✓
- Myanmar ✓
- New Zealand ✓
- Pakistan ✓
- Philippines ✓
- Singapore ✓

- Thailand ✓
- Australia (Nov 2020)
- China (Oct 2020)
- Fiji (Dec 2021)
- Hong Kong, China (Oct 2020)
- Indonesia (Mar 2021)
- Macao, China (Nov 2021)
- Republic of Korea (Jun 2023)
- Viet Nam (Apr 2021)
- Cook Islands ✗
- Lao People's Democratic Republic ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗

Implemented telecommunications for IWXXM



■ Implemented ■ Planned ■ Not started ■ Unknown

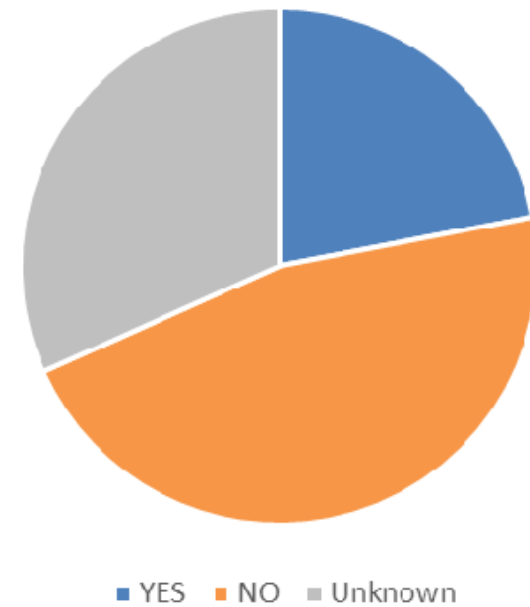


## 4. Data Translation Centre for TAC to IWXXM?

- Australia ✓
- Bangladesh ✓
- Cambodia ✓
- China ✓
- Hong Kong, China ✓
- India ✓
- Malaysia ✓
- Singapore ✓
- Thailand ✓
- Bhutan ✗
- Cook Islands ✗
- Fiji ✗
- Indonesia ✗
- Japan ✗

- Lao People's Democratic Republic ✗
- Macao, China ✗
- Maldives ✗
- Micronesia (Federated States of) ✗
- Mongolia ✗
- Myanmar ✗
- New Zealand ✗
- Pakistan ✗
- Philippines ✗
- Republic of Korea ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗
- Viet Nam ✗

Data Translation Centre





# Conclusion

- Only half (or less) of APAC States have implemented (or planned) the extended AMHS, including FTBP, to support the international exchange of meteorological information in IWXXM form





# Conclusion

- Only half (or less) of APAC States have implemented (or planned) the dissemination of METAR/SPECI and TAF in IWXXM form





# Conclusion

- More than half of APAC States (that are required to) have implemented (or planned) the dissemination of SIGMET and/or AIRMET in IWXXM form
- All APAC States with VAACs/TCACs have planned the dissemination of VAA/TCA in IWXXM form



ICAO

- North American Central American and Caribbean (NACC) Office  
Mexico City
- South American (SAM) Office  
Lima
- ICAO Headquarters  
Montréal
- Western and Central African (WACAF) Office  
Dakar
- European and North Atlantic (EUR/NAT) Office  
Paris
- Middle East (MID) Office  
Cairo
- Eastern and Southern African (ESAF) Office  
Nairobi
- Asia and Pacific (APAC) Sub-office  
Beijing
- Asia and Pacific (APAC) Office  
Bangkok



THANK YOU