



Activities and Accomplishments of ICAO Asia-Pacific Regional Sub-Office in 2013-2014

presented by ICAO

51st Conference of Directors General of Civil Aviation
Hong Kong, China
24-27 November 2014

ICAO APAC Regional Sub-Office

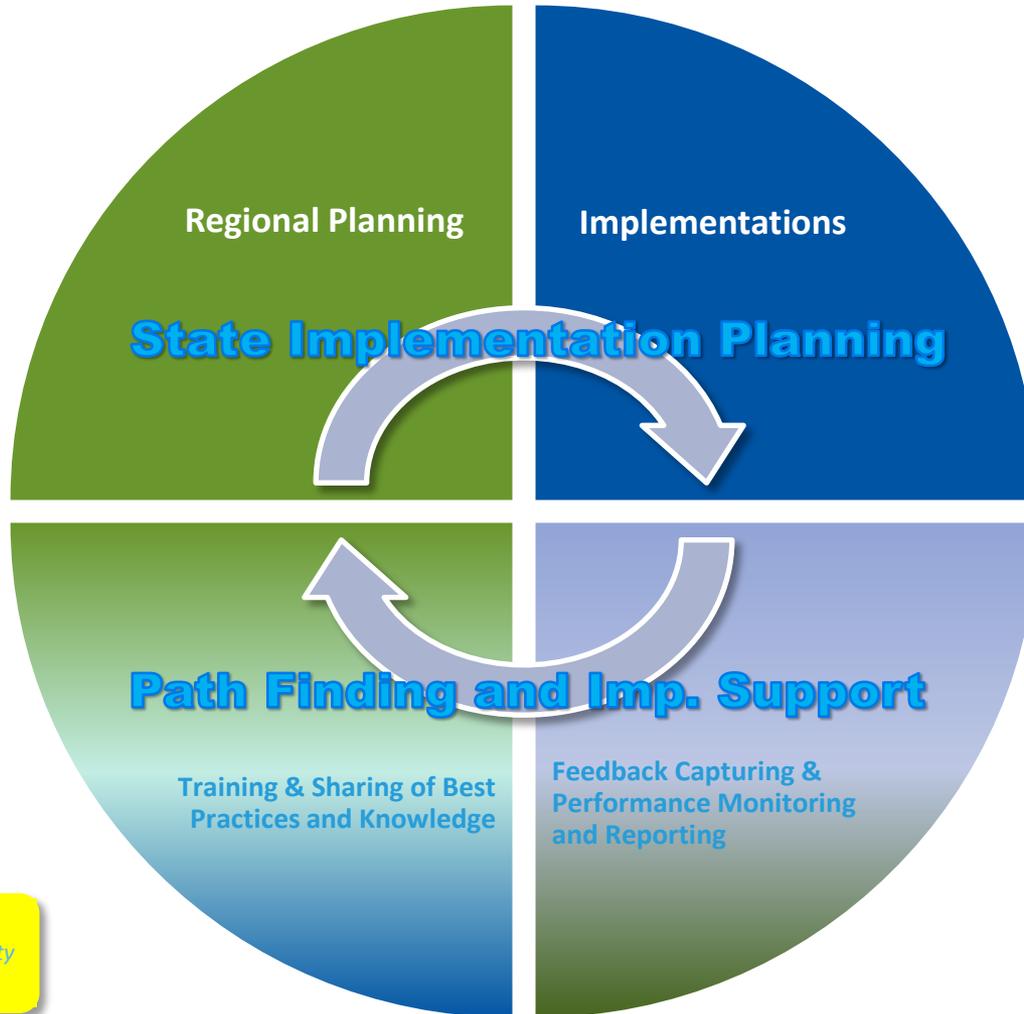
- ICAO Council agreed to establish a Regional Sub-Office (RSO) of the Asia Pacific (APAC) Office on 14 November 2011.
- The RSO was inaugurated in Beijing, China on 27 June 2013.





RSO - Responsibilities

- To improve airspace organization and maximize ATM performance and capability in Asia and Pacific.
- Entrusted by ICAO Council to support States for **implementation** of efficient management of airspace and air traffic flow in the APAC Region through Airspace Organization and Management (AOM), Collaborative Decision Making (CDM), Air Traffic Flow Management (ATFM), Flexible Use of Airspace (FUA) and Performance-Based Navigation (PBN) aimed at meeting traffic growth.



RO as Main Player
RSO as Supporting Player

RO as Supporting Player
RSO as Main Player

Note: Performance Monitoring and Reporting will be under the responsibility of the RO.



RSO Activities - 2013/2014

Airspace Organization and Management (AOM) and Performance Based Navigation (PBN)

Terminal Area

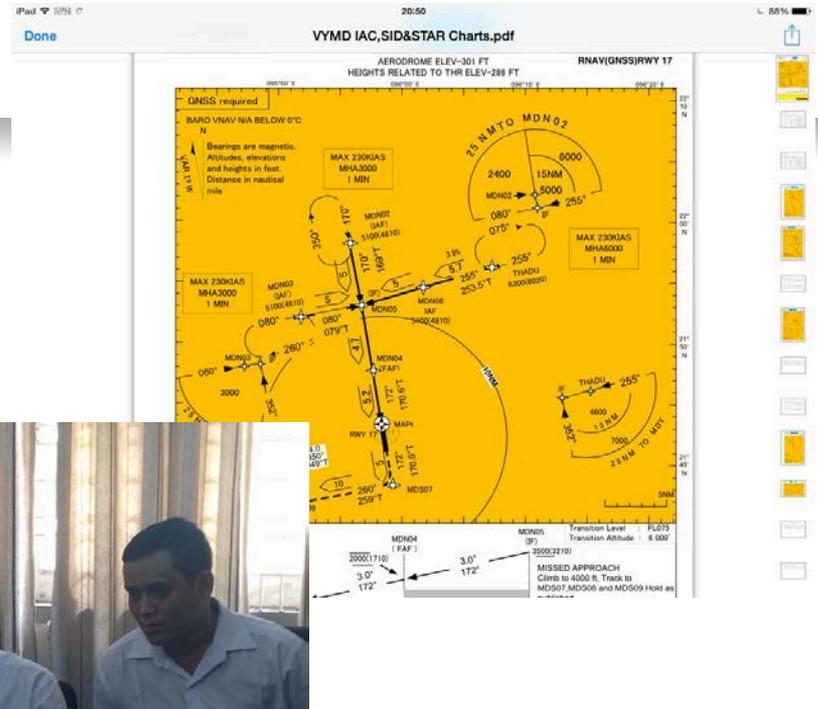
- Assisted Bangladesh, Fiji, Malaysia, Myanmar and Sri Lanka in effective implementation of airspace design for terminal airspace
- Assisted Bangladesh, Cambodia, Fiji, Laos PDR, Malaysia, Maldives, Mongolia, Myanmar, Sri Lanka and Thailand in implementations and validations of PBN procedures in coordination with the APAC FPP

PBN Operational Approval

- In cooperation with IATA, conducted trainings in PBN Operational Approval for regulators, airlines and ANSPs in Myanmar and Fiji
- Provided assistances on PBN Operational Approval to Bhutan



ICAO UNITING AVIATION





RSO Activities - 2013/2014

Airspace Organization and Management (AOM) and Performance Based Navigation (PBN)

Airspace Optimization and Management

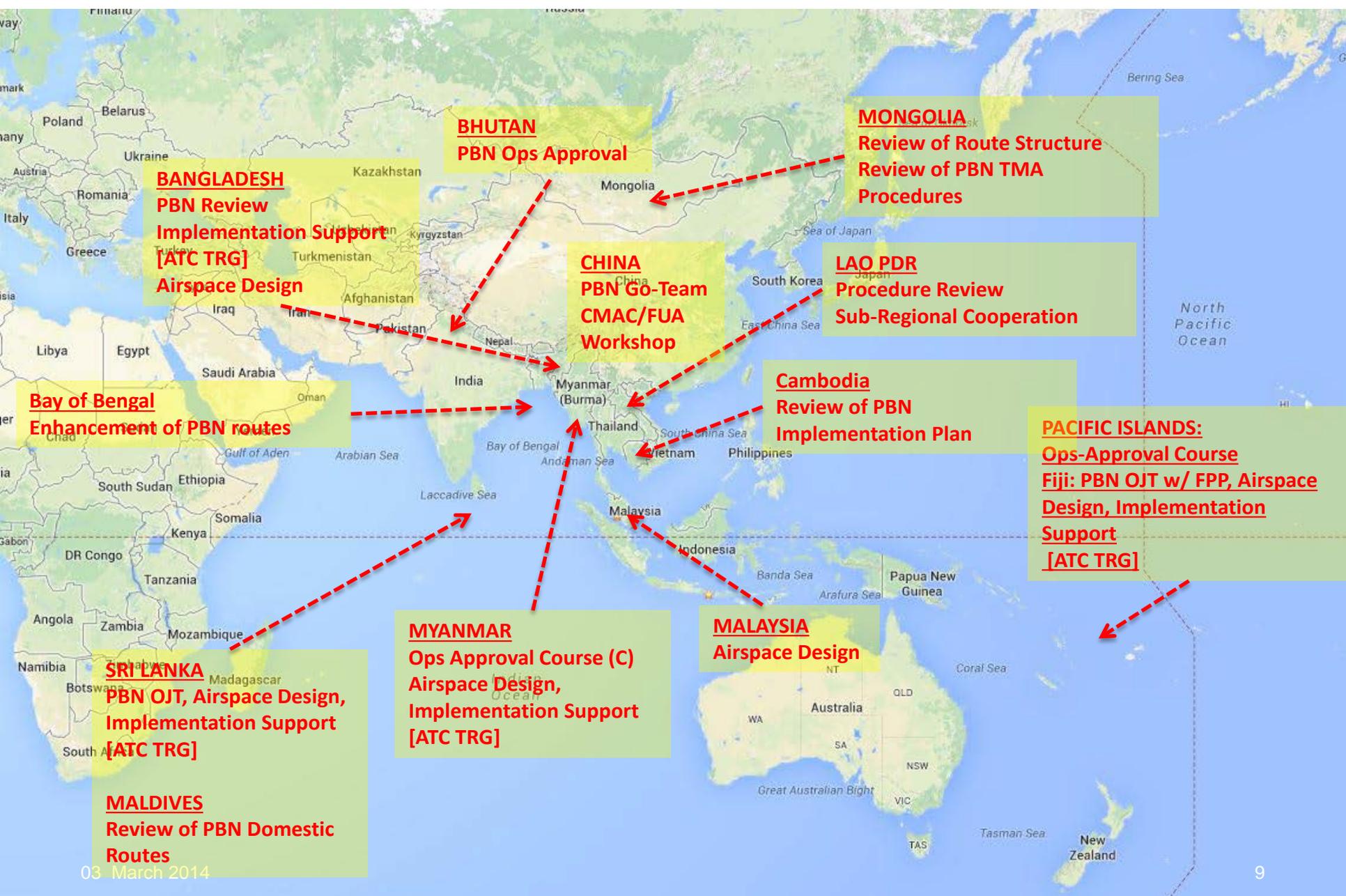
- Supported ICAO/IATA/CANSO PBN Global Go-Team visits and PBN Airspace Design Workshops in Thailand and China
- Conducted an Airspace Design Review for Fiji with participations from other Pacific Island States in October 2014
- Conducted a workshop on Civil Military Coordination and Flexible Use of Airspace for APAC States in November 2014

Implementation Trainings

- Conducted ATC training supporting PBN deployment in Bangladesh



RSO AOM and PBN Projects



BANGLADESH
PBN Review
Implementation Support
[ATC TRG]
Airspace Design

BHUTAN
PBN Ops Approval

MONGOLIA
Review of Route Structure
Review of PBN TMA
Procedures

CHINA
PBN Go-Team
CMAC/FUA
Workshop

LAO PDR
Procedure Review
Sub-Regional Cooperation

Bay of Bengal
Enhancement of PBN routes

Cambodia
Review of PBN
Implementation Plan

PACIFIC ISLANDS:
Ops-Approval Course
Fiji: PBN OJT w/ FPP, Airspace
Design, Implementation
Support
[ATC TRG]

SRI LANKA
PBN OJT, Airspace Design,
Implementation Support
[ATC TRG]

MYANMAR
Ops Approval Course (C)
Airspace Design,
Implementation Support
[ATC TRG]

MALAYSIA
Airspace Design

MALDIVES
Review of PBN Domestic
Routes



RSO Activities - 2013/2014

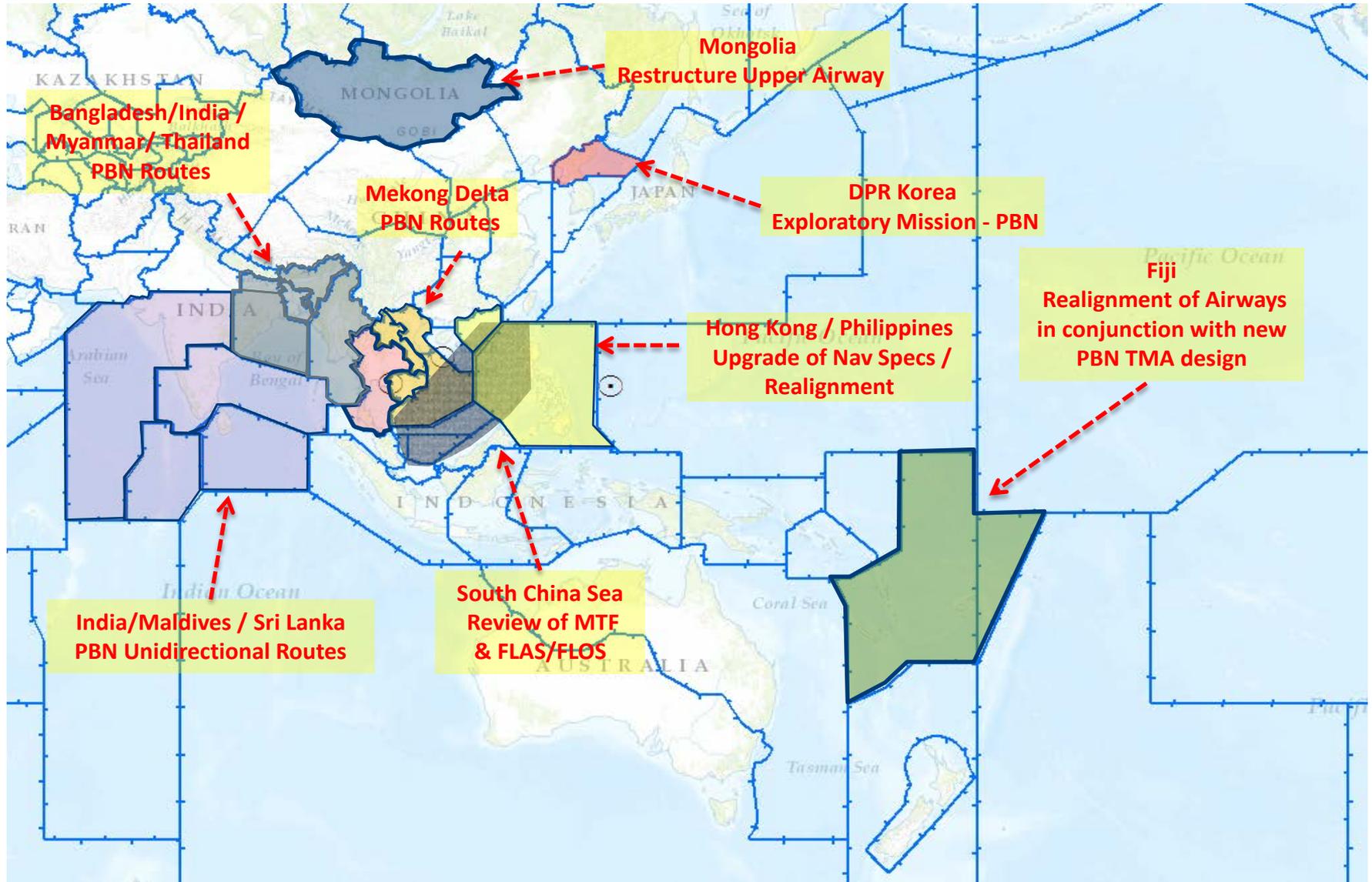
Airspace Organization and Management (AOM) and Performance Based Navigation (PBN)

Domestic and International En-route

- Assisted Bangladesh, India, Myanmar and Thailand to their on-going review of international route structure and aircraft separation over Bay-of-Bengal
- Supported Mongolia in the review and enhancement of international and domestic PBN route structure
- Entrusted by States in Mekong sub-regions, including Cambodia, Lao PDR, Myanmar, Thailand, Viet Nam, to facilitate international and domestic route structure reviews within the sub-region



RSO Enroute Projects



RSO Activities - 2013/2014

Airspace Organization and Management (AOM) and Performance Based Navigation (PBN)

Global and Regional Harmonization and Prioritization

- In coordination with ICAO ANB and APAC RO, facilitated an establishment of the PBN Implementation Coordination Group under APANPIRG
- Entrusted by ICAO IFPP to develop PBN Procedure Construction Manual
- In coordination with ICAO ANB, assisted the establishment of Africa Flight Procedure Programme



RSO Activities - 2013/2014

ATFM/CDM

Regional Harmonization

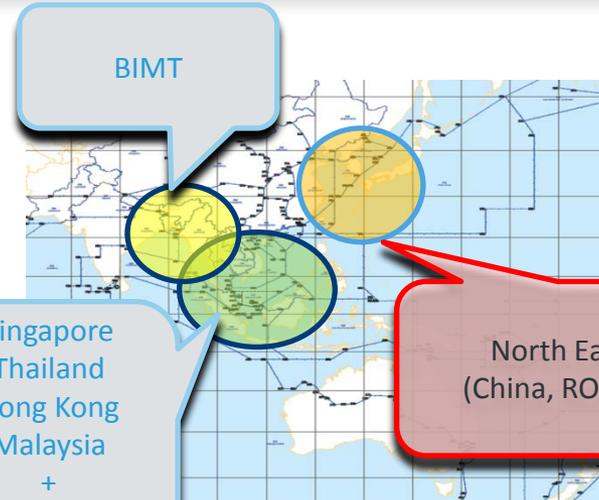
- Assisted China, Japan and ROK on the establishment of North-Asia Regional ATFM Harmonization Group (NARAHG). Mongolia has also expressed her interest in participating in NARAHG
- Coordinated with ASEAN and Bangladesh, India, Myanmar, Thailand (BIMT) States on their ATFM activities and initiatives





Singapore
Thailand
Hong Kong
Malaysia

2013

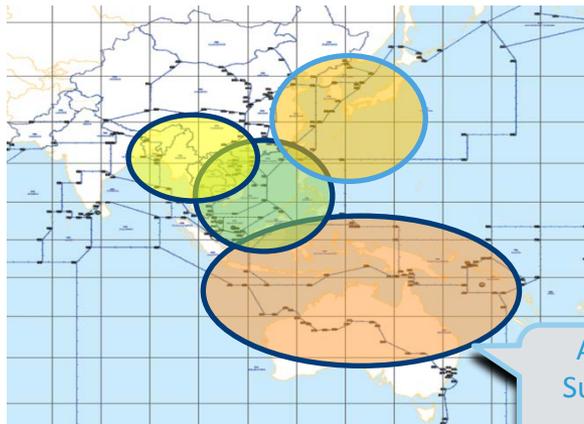


BIMT

Singapore
Thailand
Hong Kong
Malaysia
+
Vietnam
Sanya, China

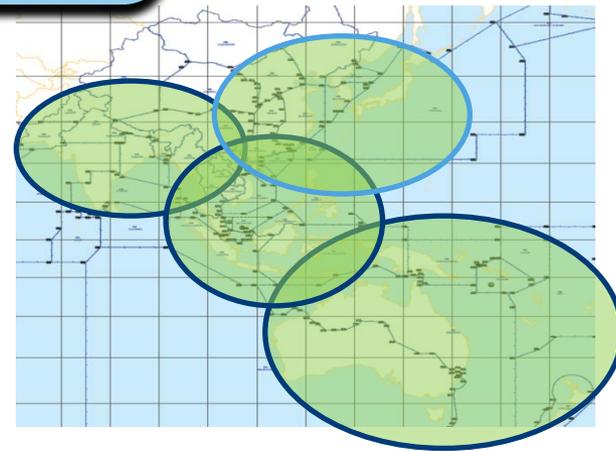
North East Asia
(China, ROK, Japan)

2014



Australasia
Sub-Regional
group

Sub-Regional ATFM



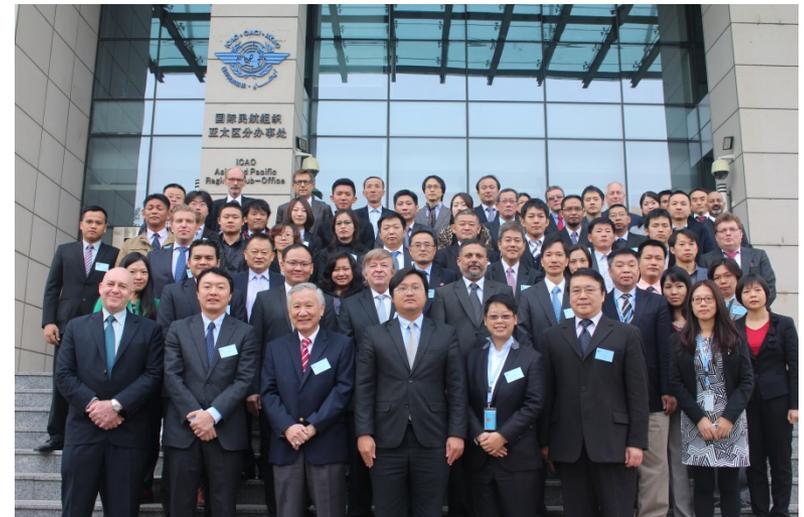
Harmonized Regional ATFM

RSO Activities - 2013/2014

ATFM/CDM

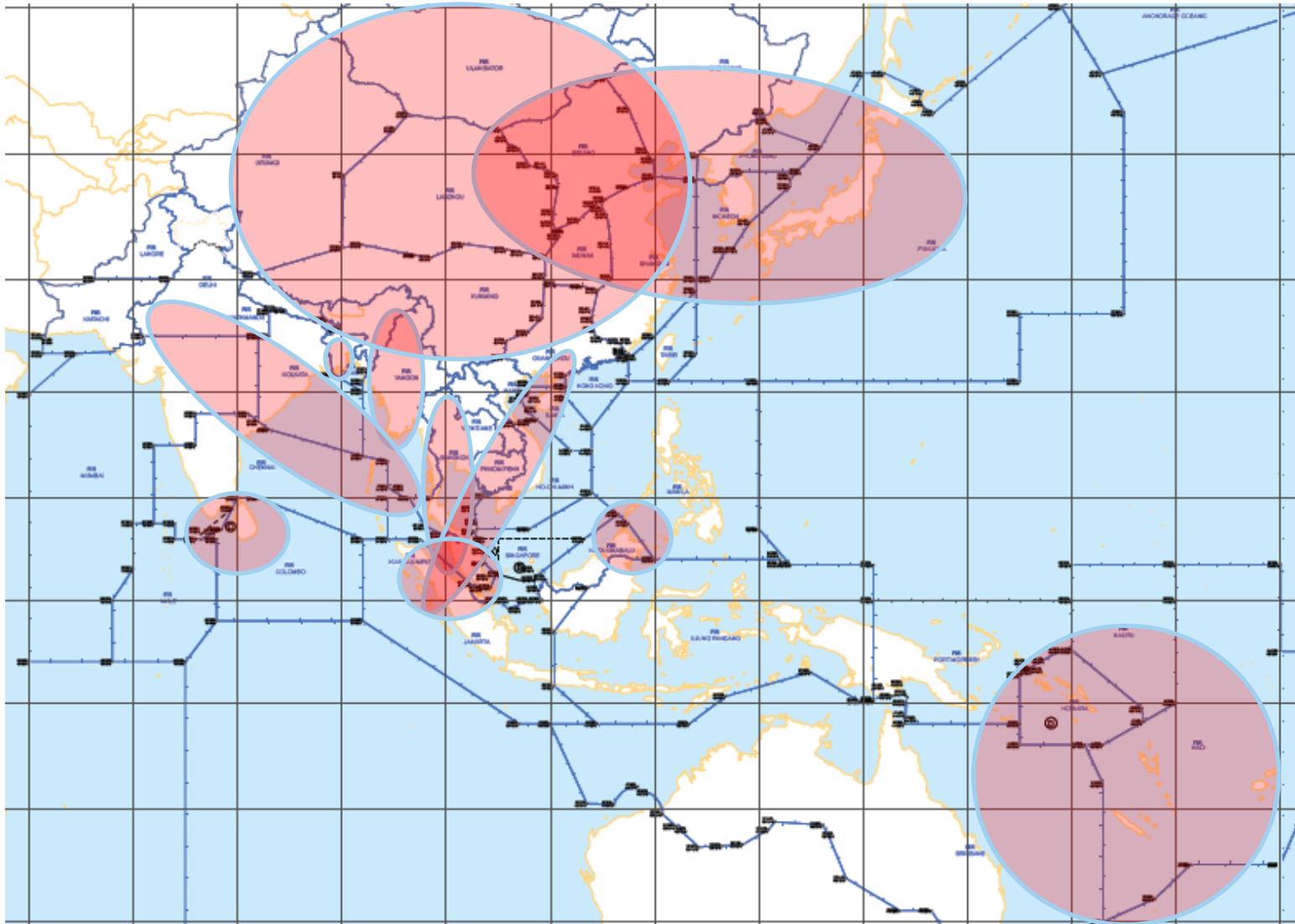
Education and Implementation Assistance Activities

- Conducted ATFM Workshop – Asia Pacific in October 2014
- Conducted a lecture on Introduction to ATFM/CDM to IATA and its airline members
- Conducted a project assessment for ATFM/CDM implementation project in Shanghai in coordination with CAA China.





Coverage of RSO Projects





Other RSO Activities - 2013/2014

- Participated in IATA Regional Coordination Meetings to develop harmonized strategy supporting ATM enhancement initiatives
- Conducted a technical visit on ATM topics to DPRK
- Hosted APAC CNS SG, MET SG, SEA/BOB ADS-B WG/9, ROBEX WG/12 and MET/H TF/4 meetings in 2014



Contributions from States and International Organizations

Hosted by: China

Officers seconded from:

China, Japan, Malaysia, Republic of Korea, Singapore and IATA

Financial/in-kind contributions received from:

China, DPRK, Fiji, Germany, India, Japan, Malaysia, Myanmar, Republic of Korea, Singapore, Thailand, the United States, ASEAN, IATA, CANSO, ACI and Eurocontrol



Actions by the Conference

The Conference is invited to note the information contained in this Paper and

- a) to endorse the activities being conducted by ICAO APAC RSO in line with the direction given by the ICAO Council;
- b) to encourage the ICAO APAC RSO to continue providing comprehensive implementation supports to APAC States in the areas of AOM, PBN and ATFM/CDM;
- c) to request the ICAO APAC RSO to develop a 3-year strategic work/resource plan in coordination with ICAO ANB, APAC Regional Office and APANPIRG and to invite the RSO to submit the work/resource plan for endorsement by future DGCA Conferences;
- d) to encourage APAC States and Administrations to seek the support of ICAO APAC RSO during their implementations of AOM, PBN and ATFM/CDM; and
- e) to invite APAC States and international organizations to consider providing continuing support and resources to the ICAO APAC RSO.



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Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarter
Montreal

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) Office
Bangkok

Asia and Pacific
Regional Sub-Office
Beijing (APAC RSO)

Thank You