

South and South-eastern Asia (SSEA) SIGMET Coordination project

Presented by Hong Kong, China, Indonesia and Sri Lanka

MET/IE WG/18 & MET/S WG/10 --- WP/20

Agenda Item 8: Monitoring of meteorological services



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HONG KONG OBSERVATORY

Introduction

- ▶ A SIGMET Coordination project named South and South-eastern Asia (SSEA) SIGMET Coordination was set up between Indonesia and Sri Lanka in December 2019
- ▶ First SIGMET coordination project set up over the Indian Ocean
- ▶ This paper presents the progress and outcomes of the SSEA SIGMET Coordination Project

- ▶ **Conclusion APANPIRG/28/30 - SIGMET coordination in the APAC Region**
 - ▶ That, States and Administrations are encouraged to:
 - ▶ a) Participate in cross-FIR-boundary SIGMET coordination on a bilateral or multilateral basis for seamless hazardous weather information for the benefit of aviation users, as well as advancing the capabilities of participating Meteorological Watch Offices in the issuance of SIGMETs for cross-border hazardous weather phenomena; and
 - ▶ b) Continue to share outcomes from SIGMET coordination activities and consider a step-by-step integration of SIGMET coordination activities in the region when operationally ready.

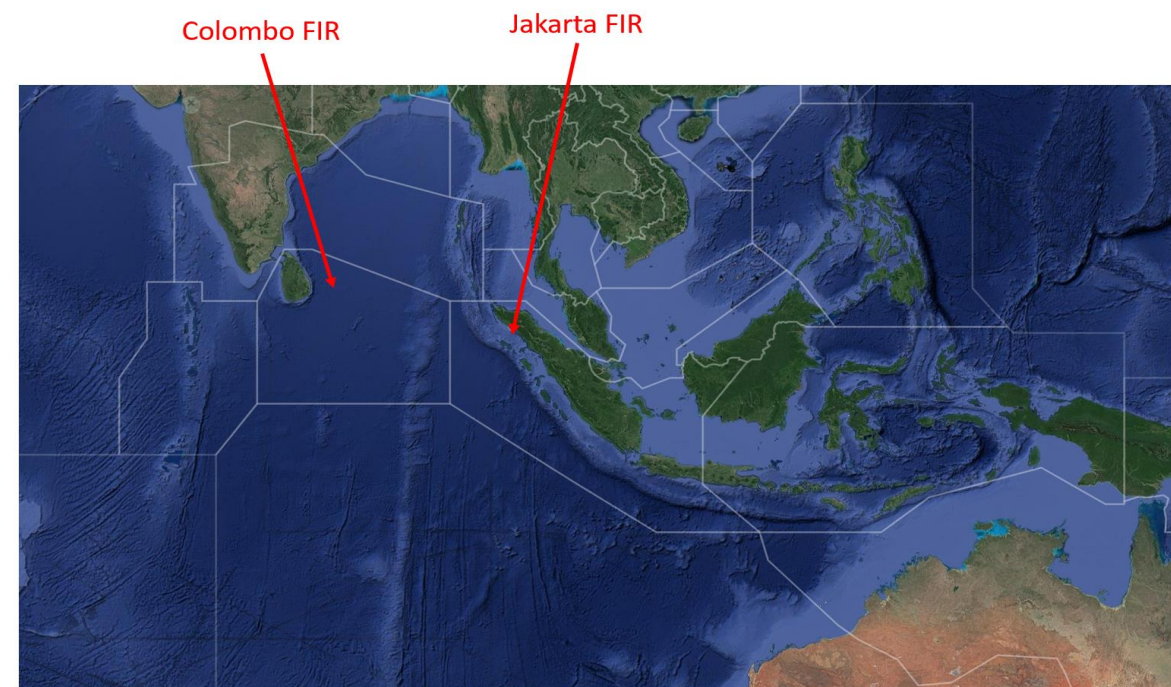
Amendment 79 to ICAO Annex 3

3.4.4 Recommendation.— *An MWO should coordinate SIGMET with neighbouring MWO(s), especially when the en-route weather phenomenon extends or is expected to extend beyond the MWO's specified area of responsibility, in order to ensure harmonized SIGMET provision.*

Note.— *Guidance on the bilateral or multilateral coordination between MWOs of Contracting States for the provision of SIGMET can be found in the Manual of Aeronautical Meteorological Practice (Doc 8896).*

SSEA SIGMET Coordination

- ▶ SSEA SIGMET Coordination involves two flight information regions (FIRs): Colombo FIR and Jakarta FIR
- ▶ Participants:
 - ▶ Indonesian Agency for Meteorology Climatology and Geophysics (BMKG)
 - ▶ Department of Meteorology, Sri Lanka
- ▶ Coordinator:
 - ▶ Hong Kong Observatory



SSEA SIGMET Coordination

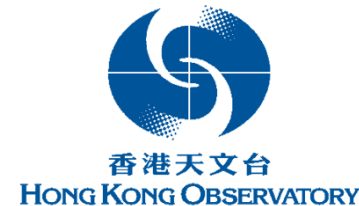
- ▶ Kick off on 8th November 2019
- ▶ Three month trial period:
 - ▶ 2 Dec 2019 to 1 March 2020
 - ▶ Coordination period: 04 to 12Z
- ▶ Extended for another three months:
 - ▶ 2 March 2020 to 1 June 2020
 - ▶ Coordination period: 00Z to 12Z
- ▶ **Transition to semi-operational**
 - ▶ Start from 2 June 2020
 - ▶ Coordination period: 00Z to 15Z



South & South-eastern Asia SIGMET Coordination (SSEA)

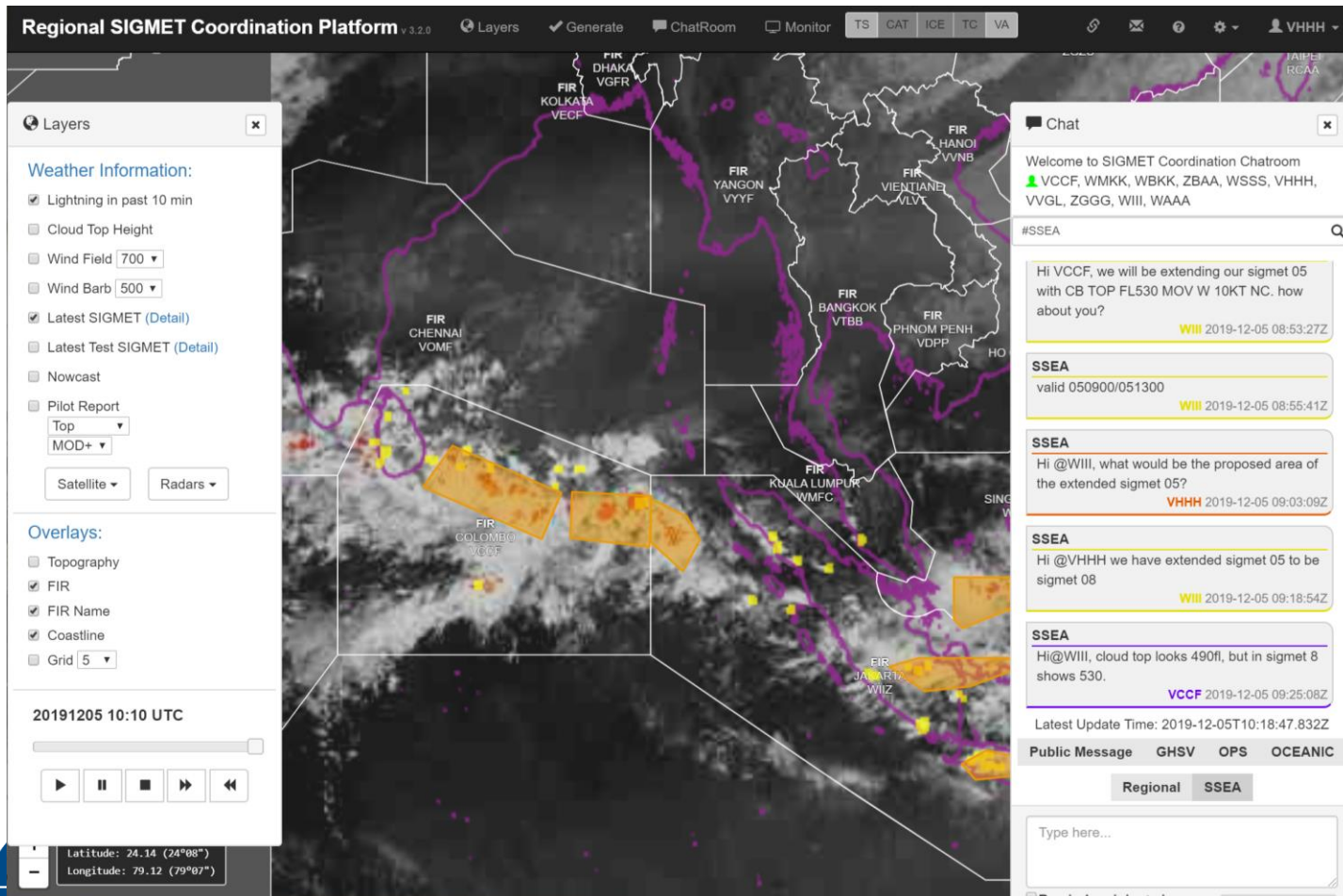
*Guiding Principles of Cooperation
and
SIGMET Coordination Procedures*

Version 2.0
2 June 2020



DEPARTMENT OF METEOROLOGY
SRI LANKA

SSEA SIGMET Coordination --- coordinated case



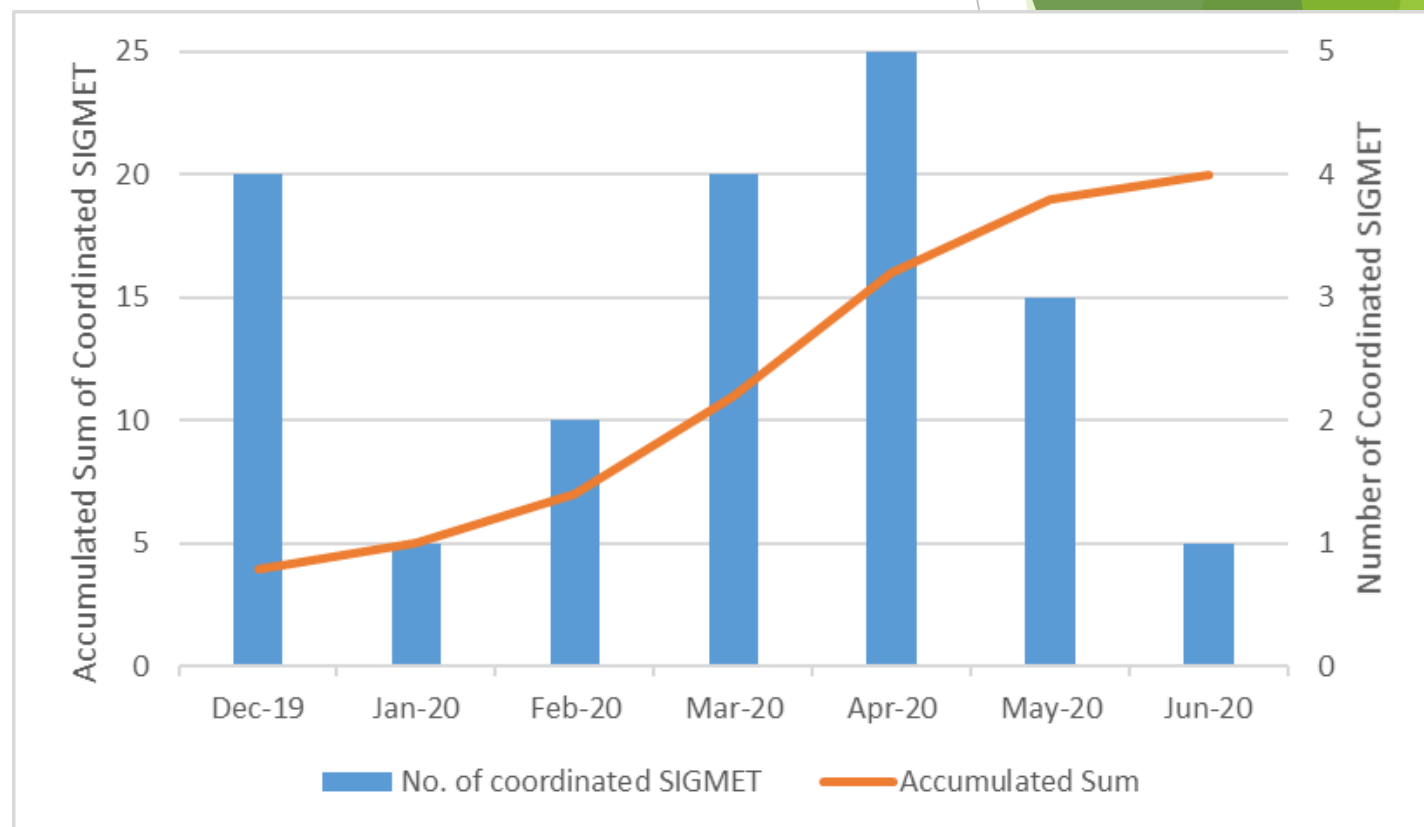
VCCF SIGMET A03 VALID
050940/051340 VCBI- VCCF
COLOMBO FIR EMBD TS OBS AND FCST
WI N0505 E09200 - N0359 E09200 -
N0249 E09159 - N0313 E08824 -
N0516 E08831 - N0505 E09200 TOP
FL530 MOV W 05KT NC

WIIZ SIGMET 08 VALID 050900/051300
WIII- WIIZ JAKARTA FIR EMBD TS OBS
WI N0409 E09338 - N0307 E09413 -
N0144 E09327 - N0301 E09200 -
N0458 E09200 - N0409 E09338 TOP
FL530 MOV W 10KT NC

SSEA SIGMET Coordination

By June 2020,

- ▶ Total number of coordinated case: 20



Feedback from participants

- ▶ The participating MWOs expressed that the setup of the SSEA SIGMET coordination had benefited them from having **closer collaboration with neighbouring MWOs, learning better forecasting skills from one another and improving the forecasters' common situation awareness.**
- ▶ Coordination activities between participating MWOs generally conformed to the procedures including the consultation process.
- ▶ The participants were also pleased that the coordination had focused not just on the coverage, but other parameters like the cloud top height and movement as well.
- ▶ Discussion of practices and criteria of SIGMET issuance also enhanced mutual understanding and helped the coordination activities.
- ▶ **The participants agreed that the SSEA SIGMET Coordination had a good start and sharing of knowledge and national practice would improve the SIGMET information over the region**
- ▶ The participants also expressed positively on involving more collaborators in the project.

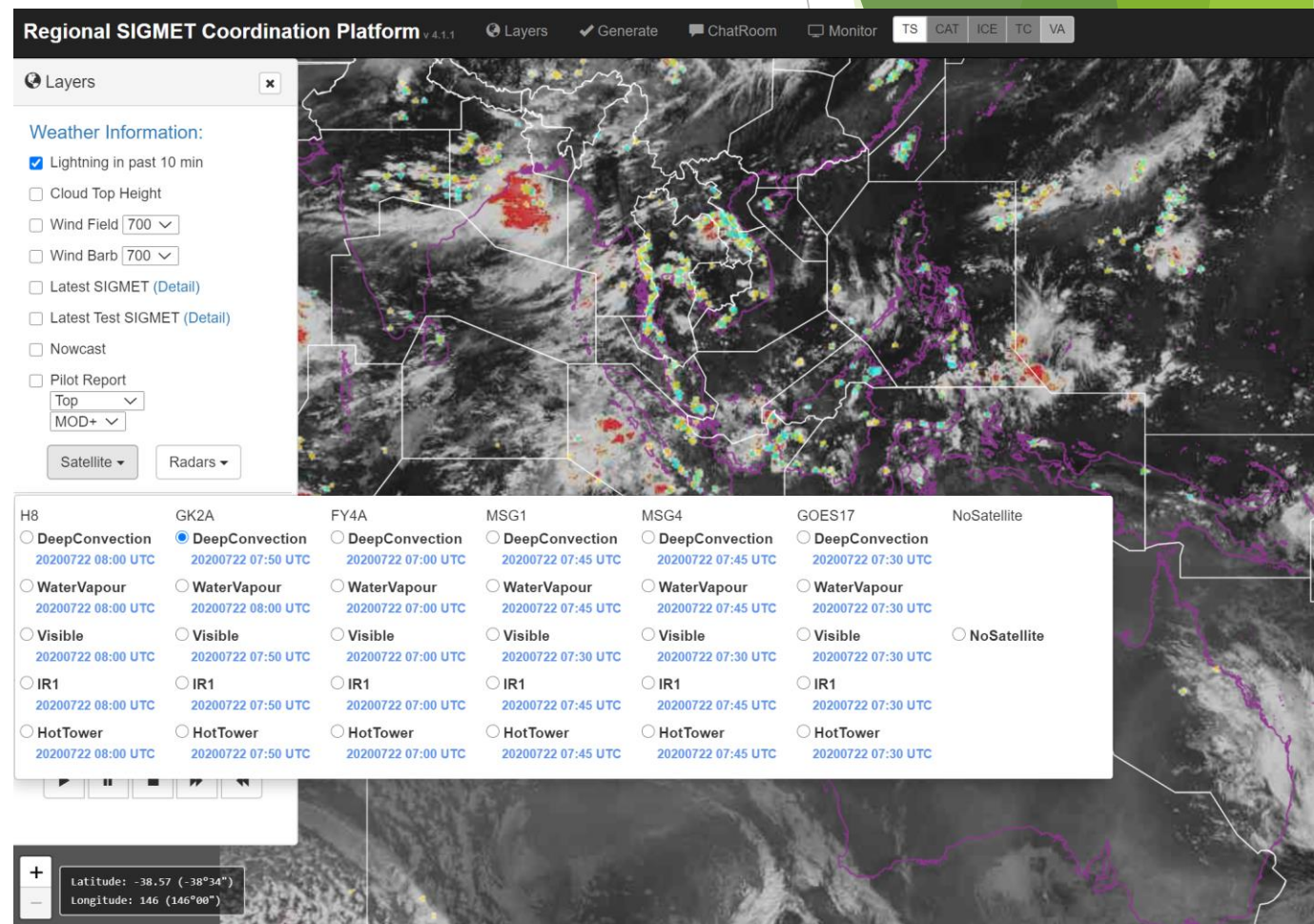


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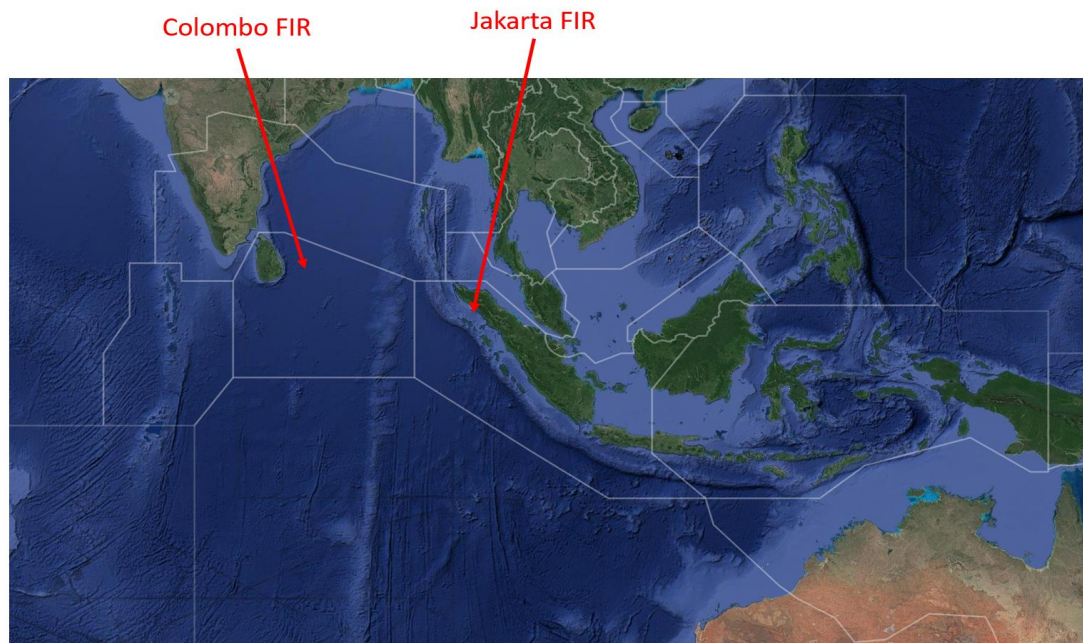
Support for SSEA SIGMET Coordination

- ▶ To support for SSEA SIGMET Coordination project, more satellites (e.g. FengYun and Geo-Kompsat) have been added onto the HKO SIGMET Coordination platform in addition to the Himawari-8 satellite for better regional coverage.
- ▶ Upgraded version of the web platform also have the flexibility of accessing various chatrooms for various coordination projects on the same webpage.



Action by the meeting

- ▶ 3.1 Considering Amendment 79 to ICAO Annex 3 and the fruitful results, other neighbouring MWOs are welcomed to participate in the project.
- ▶ 3.2 The meeting is invited to note the information contained in this paper.



Thank you for your attention!

Any States who is interested in joining the SSEA SIGMET Coordination project could contact me at yyleung@hko.gov.hk