



ICAO

International Civil Aviation Organization

WORKING PAPER

Nineteenth Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/19)

Virtual meeting, 22 to 24 March 2021

Agenda Item 4: Meteorological information exchange in digital form

THE INSTRUCTION OF THE SWA EXCHANGE TEST OF CRC-CHINA

(Presented by China)

SUMMARY

This paper describes the Space Weather Advisory exchange test situation and result of CRC-China.

1. INTRODUCTION

1.1 Since the MET IE WG/18, with the help of many experts from ICAO, the new bulletin headers and dissemination addresses were finalized.

1.2 And China-Russian Federation Consortium (CRC) together with other three Space Weather Centres has been conducting the third test designed by ICAO SWXC CG, which is scheduled from Nov. 2020 to the end of Feb. 2021.

1.3 This paper describes the Space Weather Advisory exchange test situation and result of CRC-China.

2. DISCUSSION

New Bulletin Headers of SWAs And Test Plan

2.1 In coordination with the ICAO Secretariat, State Letter and the additional information document, regarding to the introduction of the new headers of Space Weather Advisory in TAC and IWXXM format, were published.

2.2 And the testing activities with the new headers planned by ICAO SWXC CG, were initiated from November 2020 to the end of Feb. 2021, China-Russian Federation Consortium (CRC) participates with other three Space Weather Centres. And the testing activities maybe last longer upon from the ICAO SWC CG's notice.

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SWA Exchange

2.3 Space Weather Advisory in TAC is a kind of OPMET, so the SWA exchange is based on the ICAO APAC ROBEX Schema.

2.4 The SWAs in TAC format issued by CRC-China were sent to the ICAO APAC RODBs, SADIS and WIFS. The SWAs were disseminated to the other three SWXCs under the ICAO APAC ROBEX Schema.

2.5 Furthermore, the SWAs in TAC issued by all the Space Weather Centres have been forwarded to Mongolia.

2.6 And the dissemination of the SWAs in IWXXM format is based on the current AMHS network structure, and is not very consistent with the ROBEX Schema for the immature AMHS network.

SWA Test Result

2.7 The test SWAs issued by CRC-China are both in TAC and IWXXM format.

2.8 During the test, it was not very clear if the SWA has been successfully received or not.

2.9 According to the report of the ICAO SWXC CG 3rd meeting, the SWA in TAC format had been successfully disseminated to ICAO APAC RODBs and WAFs. Through our coordination with Bangkok and Singapore RODBs after the test event, it was confirmed that the SWA in IWXXM could be received/routed to Bangkok, Singapore, Brisbane RODBs.

2.10 As we know, the progress of the AMHS network and the IWXXM capability has been discussed in the 2020 workshop. And the status and progress could be updated in the Google docs. However, past experience shows that it's very difficult to find out the right person to talk about the technical details about the routing or exchange of IWXXM bulletins, in order to complete the successful exchange.

2.11 So, we advise the meeting to consider making one email list. The email list includes the email addresses of the related key technical directors, who are responsible for the implementation of AMHS or IWXXM from the states, which have the capability of exchange IWXXM, in order to promote the communication efficiency to exchange more views about the ICAO APAC AMHS/IWXXM construction.

3. ACTION BY THE MEETING

3.1 The meeting is invited to discuss as follows:

- (a) note the information contained in this paper; and
- (b) make one e-mail list, which includes the email addresses of the related key technical directors from the states, which have had the capability of exchange IWXXM.
