



**INTRODUCTION
OF
THE FOURTH
GLOBAL SPACE WEATHER
INFORMATION PROVIDER**

Presented by China



- The ICAO Council, at its Seventh Meeting of its 219th Session

b) agreed that the China/Russian Federation consortium (CRC) serve as a global space weather information service provider, while noting that the integration of the

- 3 -

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consortium into the global network of service providers should be undertaken as seamlessly and efficiently as possible; and

- This paper:
 - Describes several changes required to RODBs/IROGs
 - Introduces how CRC will operate
 - And apply to update the guidance documents to support the international exchange of these new advisories.



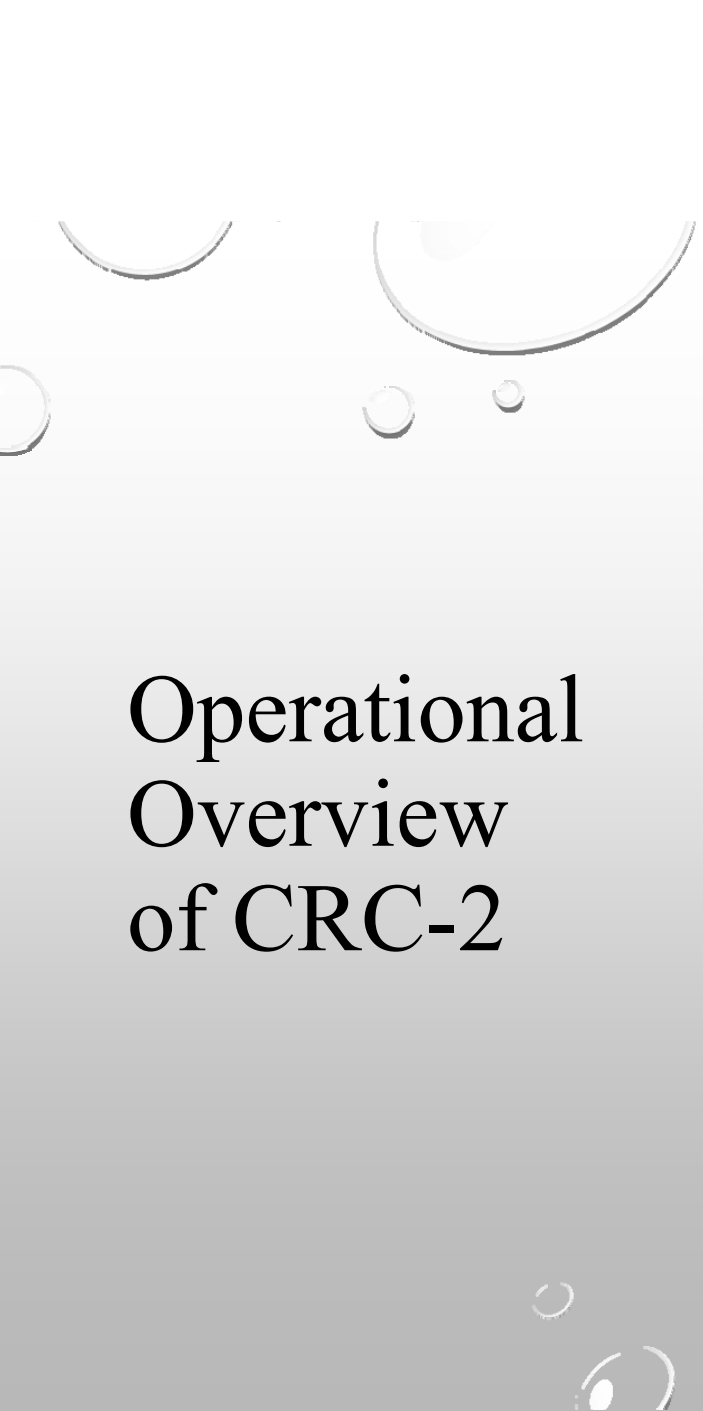
INTRODUCTION

Operational Overview of CRC-1

2.1 The space weather service and the obligations of CRC will be implemented in accordance with ICAO Annex 3.

2.2 CRC WILL

- Have the capability of generating test advisory messages in abbreviated plain language at the end of August 2020;
- be ready to disseminate advisory information in IWXXM GML format before November 2020.
- But any advisories will not be disseminated on the ICAO network until the CRC message headers are officially declared.
- ZBBB will just send the test advisories to the other three SWXCs by means of e-mail before that.



Operational Overview of CRC-2

- 2.3 Both China and Russia could issue advisories, maintain a **24-hour watch**.
- 2.4 In case of single point failure of the operation of CRC, China and Russia will work as **primary-secondary mode**.
- 2.5 **And CRC is fully coordinating its operations with the global network of service providers.**

Space Weather Advisory Headers

- 2.6 According to what we've learnt so far, ICAO SWXC Coordination Group had been preferable to align the introduction of new headers, which were agreed upon according to the concept of **one header per effect**, with the Amendment 79, ICAO Annex 3, which is probably applicable on 5 November 2020.
- 2.7 It has been proposed that the introduction of headers for advisories issued by the CRC could apply to the new principles mentioned in 2.6.

SWX Message WMO Header (TTAAii CCCC)					
	TAC Advisory		IWXXM Advisory		Administration Message
China	FNXX01 ZBBB	GNSS	LNXX01 ZBBB	GNSS	NOXX39 ZBBB
	FNXX02 ZBBB	HF COM	LNXX02 ZBBB	HF COM	NOXX39 ZBBB
	FNXX03 ZBBB	RADIATION	LNXX03 ZBBB	RADIATION	NOXX39 ZBBB
	FNXX04 ZBBB	SATCOM	LNXX04 ZBBB	SATCOM	NOXX39 ZBBB
Russia	FNXX01 RUPG	GNSS	LNXX01 RUPG	GNSS	NOXX39 RUPG
	FNXX02 RUPG	HF COM	LNXX02 RUPG	HF COM	NOXX39 RUPG
	FNXX03 RUPG	RADIATION	LNXX03 RUPG	RADIATION	NOXX39 RUPG
	FNXX04 RUPG	SATCOM	LNXX04 RUPG	SATCOM	NOXX39 RUPG

Implementation date

Two weeks before

- ZBBB send a notification
 - METNO message via AFTN/AMHS to all other ROCs, the respective IROGs in the other ICAO regions.

Two months/Two AIRAC cycles before

- ICAO Regional Office send a notification
 - e-mail to all regional OPMET bulletin exchange Focal Points
 - detailed information
 - NEWBUL FNOX01 ZB88 NEWBUL FNOX01 RUFG
 - NEWBUL FNOX02 ZB88 NEWBUL FNOX02 RUFG
 - NEWBUL FNOX03 ZB88 NEWBUL FNOX03 RUFG
 - NEWBUL FNOX04 ZB88 NEWBUL FNOX04 RUFG
 - proposed time schedule

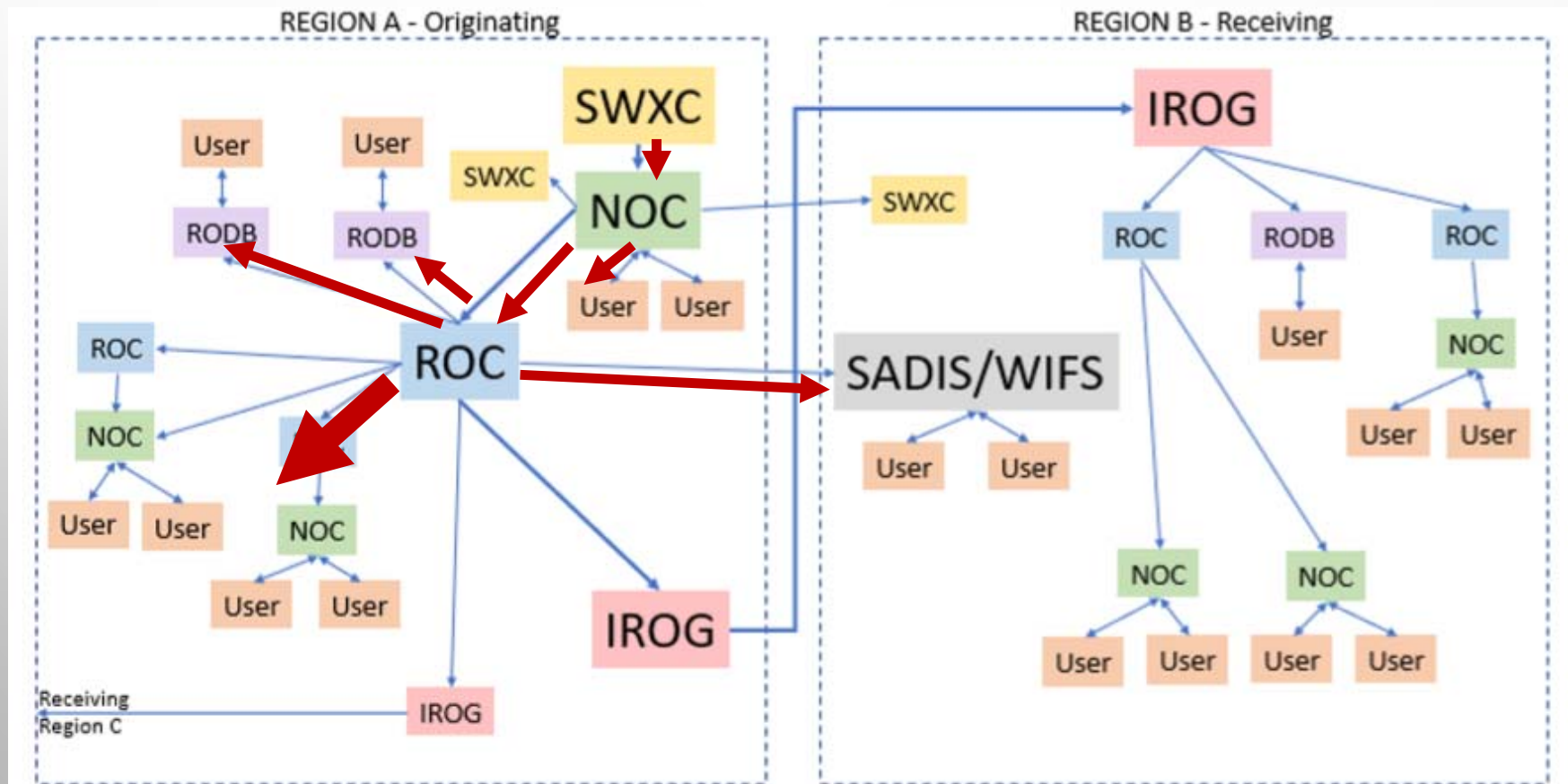
More earlier

- RODBs send MENTO
 - management of the ROBEX scheme
 - changes of ROBEX bulletins
 - all ROBEX centres (ROC) and national OPMET centres (NOC)
 - Appendix G of the ROBEX Handbook

At the same time, fully coordinate with the global space weather providers.

ISSUANCE OF MENTO

Dissemination of Space Weather Advisories





**UPDATES TO
OTHER REGIONAL
DOCUMENTATION**

- CRC Requires an update to ROBEX Handbook
 - list the new Space Weather messages exchanged;
 - their corresponding WMO headers as defined above.



THANKS!

Wish to receive the suggestions from the meeting and cooperation from RODBs.

