WMO Coordination Group on Satellite Data Requirements for RA III and RA IV

## Activities of the Coordination Group on Satellite Data Requirements for RA III and RA IV (RA-III-IV-SDR-Group)

**Diego Souza and Marcial Garbanzo** 

**RA-III-IV-SDR-Group Co-Chairs** 



WMO OMM

World Meteorological Organization Organisation météorologique mondiale Joint RA-II/V Satellite Coordination Meeting

AOMSUC-12

18 November 2022, 11:40 JST

## **Presentation Outline**

- RA-III-IV-SDR-Group Timeline
- 5th SDR Face to Face Meeting
- RA III and RA IV Survey 2022
- Examples of Regional Engagement



WEATHER CLIMATE WATE

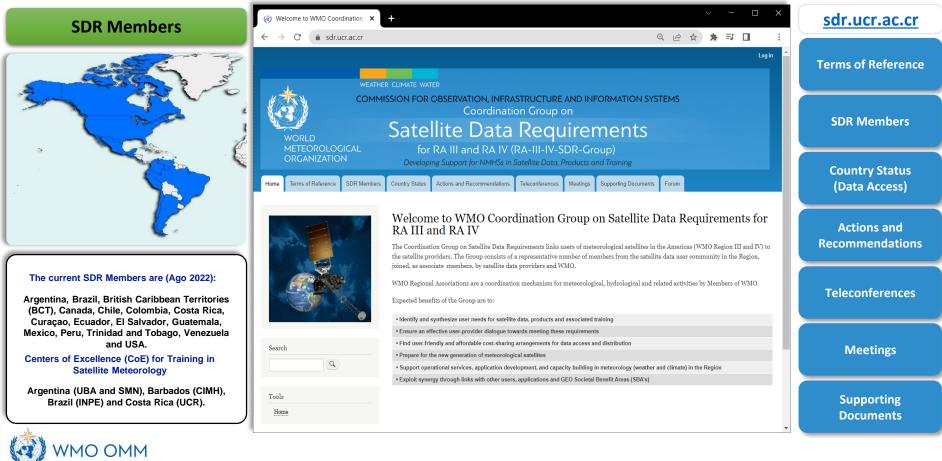
COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS Coordination Group on Satellite Data Requirements for RA III and RA IV (RA-III-IV-SDR-Group)

#### SDR TIMELINE



For detailed information on the SDR history and achievements: sdr.ucr.ac.cr/meetings

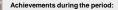
### **RA-III-IV-SDR-Group Member Countries and Webpage**



## SDR Group Face to Face Meetings, Achievements and Actions

#### The SDR Group meets in person at least every two years, and, to ensure continuity, works through collaborative tools during the intersessional period

#### 1st SDR Meeting - Greenbelt, MD, USA - 27-28 April 2015



- GOES-13 Scanning Options
- Evolution of User Requirements
- Framework for user provider interaction
- Clear training needs
- Definition of tasks and several actions and recommendations



4th SDR Meeting - Boston, USA - 29 Sep and 3 Oct 2019

#### Achievements during the period:

- Preparation to GOES-R and JPSS
- Roadmap for Regional Satellite Data Distribution
- Associated priorities for GNC extra bandwidth use
- Switch-over from EUM-Americas to **GNC-Americas**
- Other data types required

#### Madison, WI, USA - 06-07 August 2022



#### 3rd SDR Meeting - New York City, New York, USA, 16 and 19 July 2017



#### Achievements during the period:

- Review the SDR requirements list in light of forthcoming JPSS data and

#### Achievements during the period:

- Follow-up on previous actions
- Access the status of satellite data utilization in the Region
- Update on GNC-A data dissemination plans
- GOES-R and JPSS updates
- Approaches for future updates and requirements

#### 31 participants (25 in person, 6 remote) from 19 countries

**Recording:** https://www.youtube.com/watch?v=vK8IThzLKeU

GEO-XO Communication Service Plans Additions a		nd Support Access, Pr		n LEO Data oducts and ations	Creation of New Task Forces		New Product Requirements	
Data Proces	ssing Issues	Interaction Regional I		Latin America Satellite provi	e creation of the Meteorological iding necessary isory		areness on Resources	

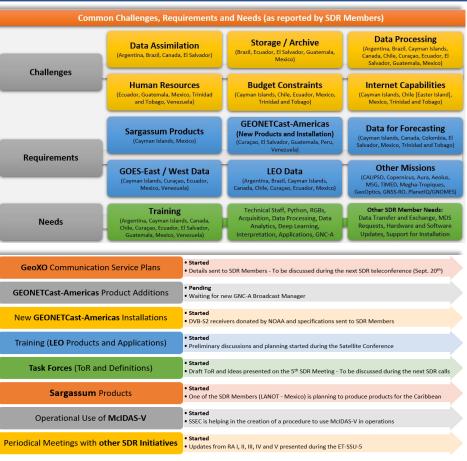
For more information on SDR meetings: sdr.ucr.ac.cr/meetings | For more information on SDR Teleconferences: sdr.ucr.ac.cr/teleconferences

Several actions to support the

- transition to GOES-16, which was recently launched at the time
- products5

## **2022 SDR Updates and Action Plan**



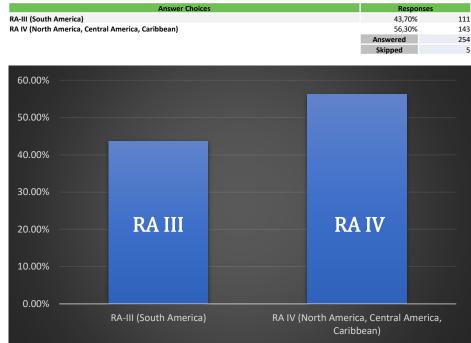


#### WMO RA III and RA IV Survey 2022: Overview



10 OMM

Q4. Please select your geographic region (if your organization is active in more than one WMO Region, please choose the region for which you wish to submit this survey)



For complete survey results, analysis and all questions please access: sdr.ucr.ac.cr/meetings

## WMO RA III and RA IV Survey 2022: Preliminary Conclusions

Good participation of the RA III and RA IV communities, with 111 answers from RA III and 143 answers for RA IV.
 Most of the responses indicate that it is unknown if countries have formal representation in the SDR-G.

3. Internet is still the most used means of accessing data even when other mechanisms are now available.
4. GEONETCast-Americas and the Cloud Services (Big Data Project) are favored for future solutions for gathering data.

5. The biggest problems for getting satellite data are (in no particular order): Local networking problems, Lack of documentation, Infrastructure (reception, storage and processing), Funding resources, Latency issues, Maintenance, Capacity Building and Training.

6. The base bands are still used heavily while RGBs or derived products could provide more information. More training should go into better utilization of products, including gathering and generating the product.
7. Partially met or not met training is seen everywhere regarding LEO and GEO data access, meaning that a large portion of the users still

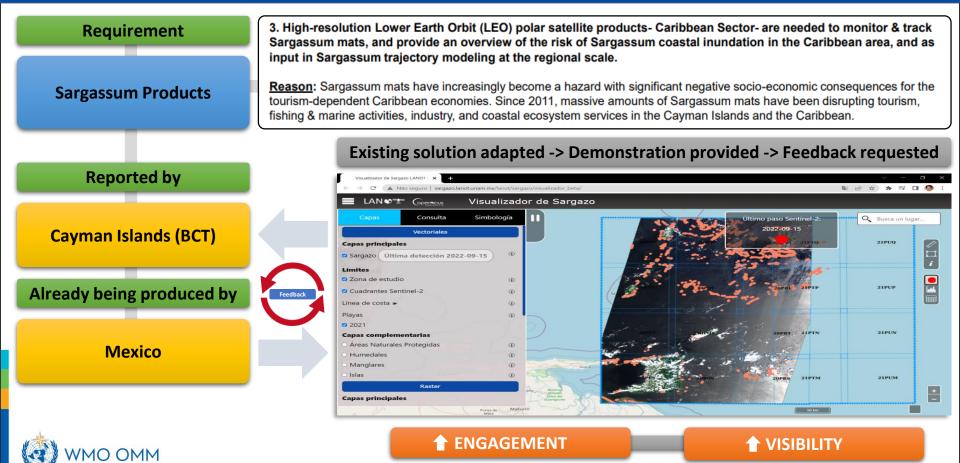
need more training or are still waiting for it.

8. Most of the responses indicate that users are not aware of training resources and hence they are rarely used or not used at all.



For complete survey results, analysis and all questions please access: sdr.ucr.ac.cr/meetings

## **Recent Example of Regional Engagement (Member to Member)**



## **Recent Example of Regional Engagement (SatOp to Members)**



Early user engagement - Explanation provided - Feedback requested



#### 2. Discussion with Co-Chairs



4. GeoXO Program Overview

🗢 📾

for more

asting, and

#### 3. Q&A with SDR Members

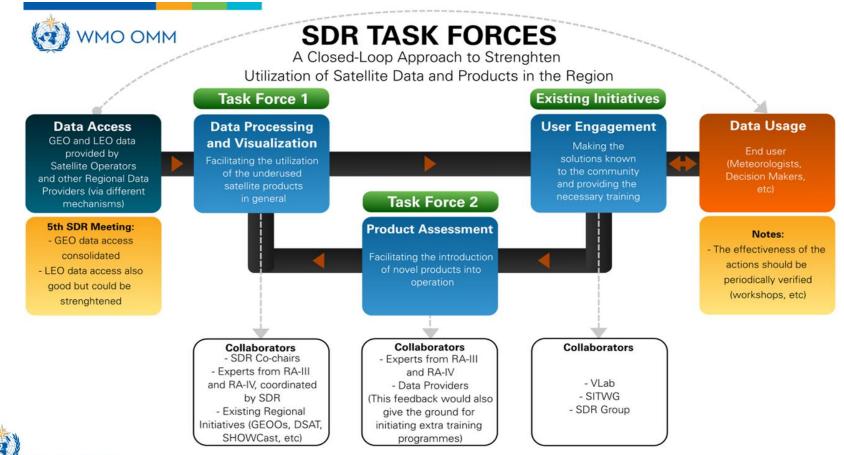
# A real and a read a

0.47µm	1.0km	0.5km (TBR)
0.64µm	0.5km	0.25km*
0.865µm	1.0km	0.5km (TBR)
0.91µm		1.0km (TBR)
1.378µm	2.0km	2.0km
1.61µm	1.0km	1.0km
2.25µm	2.0km	1.0km (TBR)
3.9*µm	2.0km	1.0km
5.15µm		1.0km
6.185µm	2.0km	2.0km
6.95µm	2.0km	1.0km** (TBR)
7.34µm	2.0km	2.0km
8.50µm	2.0km	2.0km
9.61µm	2.0km	2.0km
10.35µm	2.0km	1.0km** (TBR)
11.20µm	2.0km	2.0km
12.30µm	2.0km	2.0km
13.30µm	2.0km	2.0km

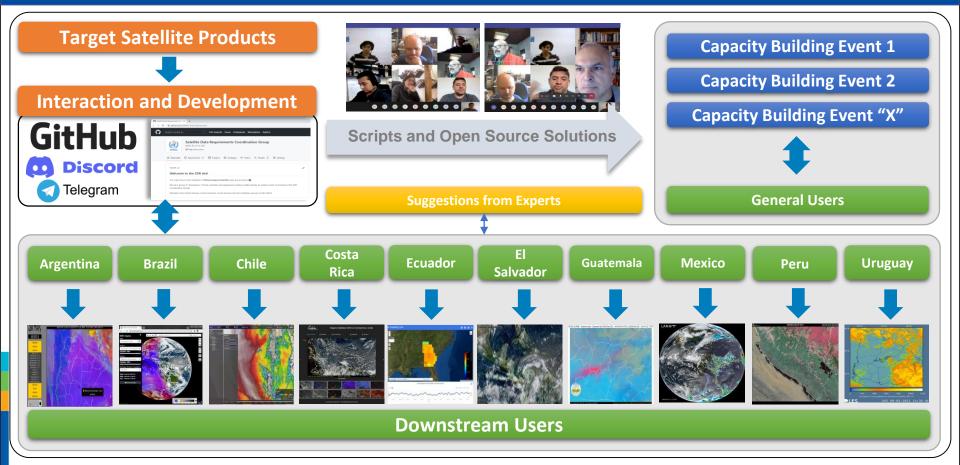
#### **ENGAGEMENT**

TVISIBILITY

## Satellite Data Requirement Task Forces

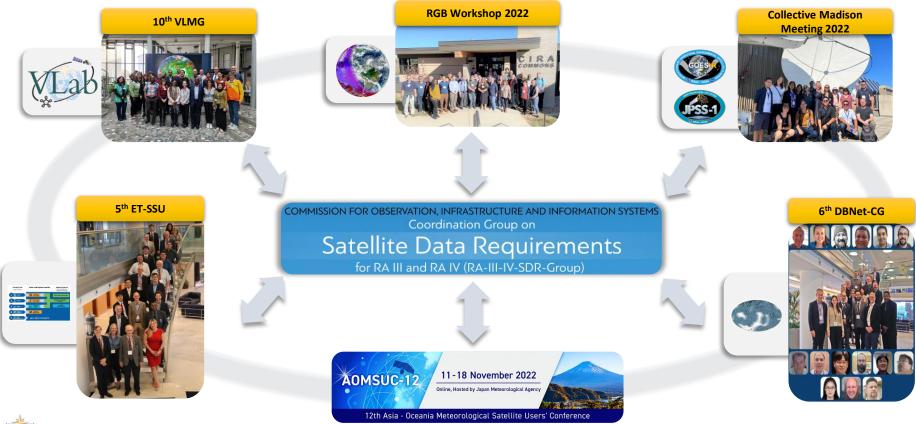


## **SDR Data Processing and Visualization Task Force**



WMO Coordination Group on Satellite Data Requirements for RA III and RA IV - 31st Teleconference

## **RA-III-IV-SDR-Group in 2022**



🥶 wmo омм

The 32<sup>nd</sup> SDR Teleconference is scheduled for the next Tuesday, November 22, 14:00 UTC

WMO Coordination Group on Satellite Data Requirements for RA III and RA IV

## **Thank you - Gracias - Obrigado**

# ACTIVITIES OF THE COORDINATION GROUP ON SATELLITE DATA

REQUIREMENTS FOR RA III AND RA IV (RA-III-IV-SDR-GROUP)



**Diego Souza and Marcial Garbanzo** 

**RA-III-IV-SDR-Group Co-Chairs** 

WMO OMM

World Meteorological Organization Organisation météorologique mondiale Joint RA-II/V Satellite Coordination Meeting

AOMSUC-12

18 November 2022, 11:40 JST