WMO SPACE PROGRAMME

Werner Balogh
WMO Space Programme Office

The Joint Meeting of RA II WIGOS Project and RA V TT-SU for RA II and RA V NMHSs

Jakarta, Indonesia 11 October 2018

WORLD METEOROLOGICAL ORGANIZATION

2030 Agenda for Sustainable Development





































 WMO contributes to 12 of the 17 SDGs and is the co-custodian of SDG 13 on Climate Action

https://public.wmo.int/en/our-mandate/what-we-do/wmo-contributing-sustainable-development-goals-sdgs

WMO Space Programme

- Established by Resolution 5 (Cg-XIV) of the 14th WMO Congress in 2003
- Promote availability and utilization of satellite data and products for weather, climate, water and related applications.
- Coordinate environmental satellite matters and activities throughout all WMO Programmes.
- 16th WMO Congress in 2011 confirmed four main components:









See http://www.wmo.int/pages/prog/sat/index_en.php



WMO Space Programme Value Chain

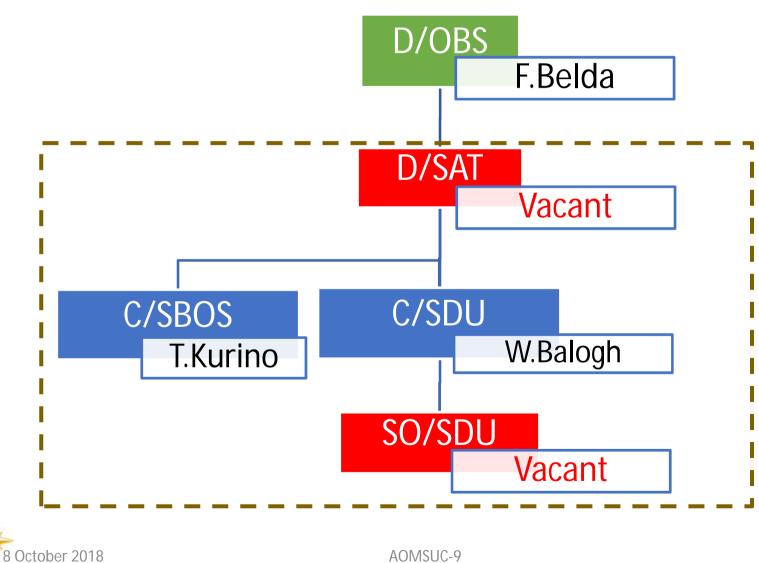




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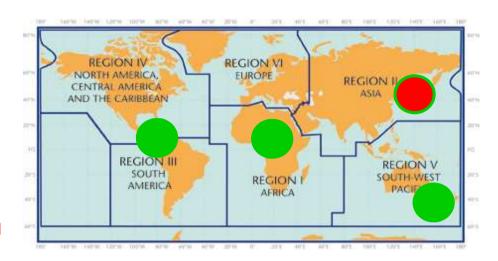


Regional User Mechanisms

- RA I (Africa) Dissemination Expert Group (RAIDEG)
- RA II (Asia): WIGOS Project Coordination Group
- RA III/IV (Americas): Coordination Group
- RA V (SW Pacific): Task Team on Satellite Utilization

Bringing together:

- Operational users
- Satellite providers
- Training centres (VLab CoEs)
- Scientific users
- Others



Objectives:

- User-provider dialogue
- Expressing user requirements
- Coordinating data distribution
- Identifying training needs
- Implementing WIGOS/WIS

See http://www.wmo.int/pages/prog/sat/index_en.php (Regional Activities)



Space Programme Website



See http://www.wmo.int/pages/prog/sat/index_en.php

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RA II WIGOS Project



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RA II WIGOS Project to Develop Support for NMHSs in Satellite Data, Products and Training

- "WMO Space Programme"
- "Access to low-level satellite data"
- "WMO OSCAR/Space (Satellite missions, systems, and instruments)"
- "Satellite products and imagery for RA II"
- "WMO Product Access Guide"

Co-coordinator



Under the auspices of



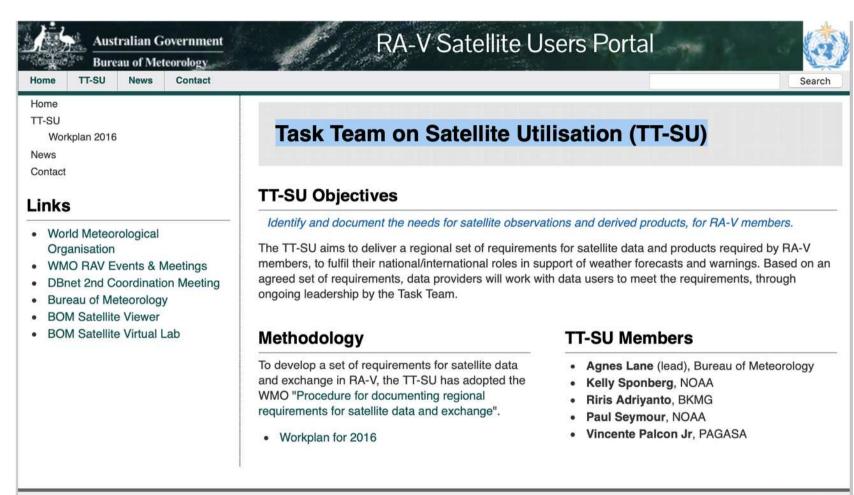
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- Work Plan 2017-2020
- · Structure of the Project
- · Meetings of the Coordinating Group
- Newsletters

Meteorological Satellites Introduction News Release Archive Satellite Imagery Satellite Imagery (Rapid Scan) Operational Information For NMHSs About Us Links Site Map

See http://www.jma.go.jp/jma/jma-eng/satellite/ra2wigosproject/ra2wigosproject/ra2wigosproject-jma.html

RA V Task Team on Satellite Utilisation



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See http://www.virtuallab.bom.gov.au/portal/ttsu/



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WMO/CGMS Virtual Laboratory



Home

Established by the World Meteorological Organization (WMO) and the Coordination Group for Meteorological Satellites (CGMS), the Virtual Laboratory for Training and Education in Satellite Meteorology (VLab) is a global network of specialized training centres and meteorological satellite operators working together to improve the utilisation of data and products from meteorological and environmental satellites.

Eight satellite operators are involved: CMA, CONAE, EUMETSAT, INPE, JMA, KMA,

NOAA and ROSHYDROMET, and thirteen training centres – called Centres of Excellence (CoEs) – located in Argentina (Buenos Aires and Cordoba), Australia (Melbourne), Barbados (Bridgetown), Brazil (Cachoeira Paulista), China (Beijing and Nanjing), Costa Rica (San Jose), Kenya (Nairobi), Morocco (Casablanca), Niger (Niamey), Oman (Muscat), Republic of Korea (Gwanghyewon), the Russian Federation (Moscow and St Petersburg) and South Africa (Pretoria). Three CoEs are linked to universities (Buenos Aires, St. Petersburg and Nanjing).



VLMG-8 Meeting in Barbados, May 2016

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See https://www.wmo-sat.info/vlab/

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Strategic Plan 2020-2023

WMO STRATEGIC PLAN AT A GLANCE

Vision 2030

By 2030, a world where all nations, especially the most vulnerable, are more resilient to the socioeconomic impact of extreme weather, climate, water and other environmental events, and empowered to boost their sustainable development through the best possible services, whether over land, at sea or in the air

Overarching **Priorities**

Enhancing preparedness for, and reducing losses of life and property from hydrometeorological extremes

Supporting climate-smart decision making to build resilience and adaptation to climate risk

Enhancing socioeconomic value of weather, climate, hydrological and related environmental services

Core Values

Accountability for Results and Transparency
 Collaboration and Partnership
 Inclusiveness and Diversity

Long-Term Goals

Better serve societal needs: Delivering authoritative,

accessible, user-oriented and fit-for-purpose information and services Enhance Earth system observations and predictions: Strengthening the technical foundation for the future

Advance targeted research: Leveraging leadership in

science to improve understanding of the Earth system for enhanced services

4 Close the capacity gap: Enhancing service delivery

capacity of developing countries to ensure availability of essential information and services Strategic realignment of WMO structure and programmes: Effective policy- and decision-making and implementation

Strategic Objectives

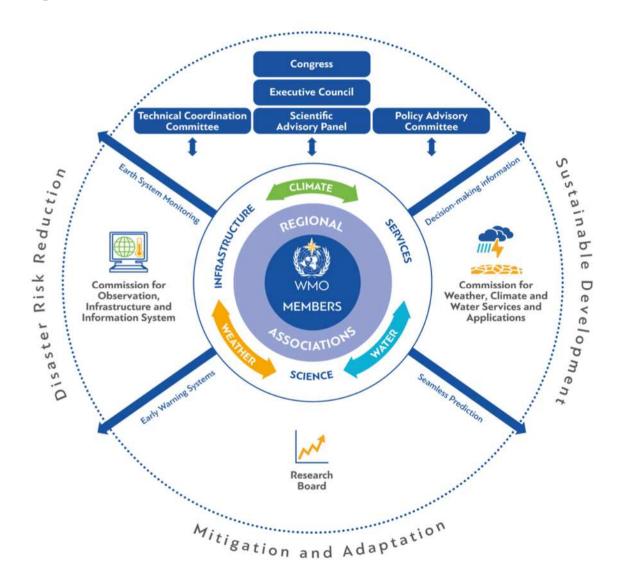
2020-2023 focus Strengthen national multihazard early warning systems and extend reach to better enable effective response to the associated

- 1.2 Broaden the provision of policy- and decisionsupporting climate information and services
- 1.3 Further develop services in support of sustainable water management
- 1.4 Enhance and innovate the provision of value-added. decision-supporting weather information and services

- Optimize the acquisition of observation data through the WMO Integrated Global Observing System
- 2.2 Improve and increase access to, exchange and management of current and past observation data and derived products through the WMO Information System
- 2.3 Enable access and use of numerical analysis and prediction products at all temporal and spatial scales from the WMO Global Data Processing and Forecast System

- 3.1 Advance scientific knowledge of the Earth system
- 3.2 Enhance the science-toservice value chain ensuring scientific and technological advances improve predictive capabilities
- 3.3 Advance policy-relevant science
- 4.1 Address the needs of developing countries to enable them to provide and utilize essential weather, climate, hydrological and related environmental services
- competencies and expertise
- 4.3 Scale-up effective partnerships for investment in sustainable and cost-efficient infrastructure and service delivery
- 5.1 Optimize WMO constituent body structure for more effective decision-making
- 5.2 Streamline WMO programmes
- 4.2 Develop and sustain core 5.3 Advance equal and effective participation of women and men in governance, scientific cooperation and decisionmaking

Proposed New WMO Structure





Challenges & Opportunities

- Space Programme in the new WMO structure
- Sustain OSCAR and routinely conduct RRR
- Implement space-based WIGOS Vision 2040, including the architecture for climate monitoring
- Assist NMHSs with removing hurdles to capacity building
- Address needs of the WMO Earth System Approach
- Engage with the Global Weather Enterprise
- Bridge gap between space agencies and NMHSs
- Small satellite activities
- Maintain and promote open and free access to data
- Enlarge user community and integrate space-based data and information into decision making processes
- Contribute to implementing global development agendas
- Interaction with Regional Satellite Data/User Requirements
 Groups

Thank you

WMO Space Programme http://www.wmo.int/pages/prog/sat/index_en.php

