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Global Cooperation (WIGOS)

Regional Seminar on Climate Services in RA-V: Session 3: Climate Observing Systems and Data

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Global Cooperation (WIGOS)

This talk covers:

What is WIGOS?

Current status of WIGOS

What happens next?

What is RA-V asked to do?

How will we tackle WIGOS in RA-V?



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What is WIGOS?

WMO Congress (May 2011)

Decides to implement the WMO Integrated Global Observing System (WIGOS);

Decides further that implementation activities will be undertaken during the next financial period as one of the major efforts of the Organization with the goal that WIGOS should become operational from 2016 onwards



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What is WIGOS?



WMO Congress May 2011: “WIGOS will provide a framework for enabling the integration and optimized evolution of WMO observing systems.”





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What is WIGOS?

Congress reiterated that the current WMO observing systems had been developed and administered separately in the past to meet diverse sets of requirements. such multiplicity resulted in incompatibilities and deficiencies, duplication of effort and higher overall costs for Members.

Congress recognized that the WIGOS vision provides a roadmap to guide the orderly evolution of the WMO observing systems operated by Members into an integrated system.

Congress decided that the WIGOS implementation will focus on a framework for improved governance, management, integration and optimization of the multiple observing systems coordinated by WMO

Congress emphasized that the implementation of WIGOS should build upon and add value to the existing WMO observing systems



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What is WIGOS?

Congress agreed that WIGOS will (maximize for Members) their administrative and operational efficiencies, through a more coordinated, collaborative and cost-effective approach in turn this will significantly enhance observing capabilities of Members and will enable Members, especially those of LDCs, LLDCs and SIDS, to better respond to natural hazards; improve weather, water, climate, and related environmental monitoring and forecast services; and adapt to, and mitigate climate change. In doing so, Members will be able to meet expanding national mandates ...

Congress also underlined that WIGOS will be essential for the Global Framework of Climate Services (GFCS), aviation meteorological services, disaster risk reduction, and capacity-building as WMO priorities



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Current Status of WIGOS

Completed WIGOS “Test of Concept” phase 2007-2011:

- Development of the Concept of Operations (CONOPS) document, specifying the WIGOS basic characteristics
- WIGOS Development and Implementation Strategy (WDIS)
- good progress and lessons learnt from a number of Pilot and Demonstration projects



What happens next?

Key WIGOS Implementation Tasks and Activities in RA II	Milestones												
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
REPORTS	<i>Test of Concept Phase</i>				<i>Implementation Phase</i>				<i>Operational Phase</i>				
Report to Cg (Regional aspects of WIGOS implementation)													
Report to EC (Regional aspects of WIGOS implementation)													
Report to RA session													
Report to RA Management Group													
Report to RA WG IOS-WIS													
Key WIGOS Implementation Tasks													
Integrated Governance (Regional aspects)													
Data delivery and information services through WIS													
Quality management, including monitoring and standardization													
Planning and optimization of observing systems													
Capacity-Building activities													
Communications and Outreach													
Priority activities													
Development of Regional WIGOS Implementation Plan (R-WIP)													
Nomination of Regional Focal Point on WIGOS Matters													
Development and update of WIGOS Manual (Regional Part)													
RA II WIGOS Implementation Projects													
WIGOS Demonstration Projects (Concept Phase)													
Coordination with WIGOS Component Systems													
Colour code:													
	<i>work done so far</i>				<i>work planned/underway</i>				<i>operational</i>				



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What happens next?

WMO Congress requested its Executive Council to establish an Inter-Commission Coordination Group on WIGOS (ICG-WIGOS), which had its first meeting 26-30 September 2011. Some of the actions expected to arise from that meeting (when the Final Report is published):

Early initiation of a nomination process of WIGOS National, RAs and TCs Focal Points (WIGOS-NFP/RAFP/TCFP, respectively)

The draft WIGOS Functional Architecture needs to be further developed, extensively reviewed by TCs, RAs and Members then finalised, ready for acceptance by Executive Council in mid 2012. This will be a basic reference document for the:

- WIGOS Implementation Plan, and
- Manual on WIGOS.



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What happens next?

The draft WIGOS Implementation Plan needs to be further developed, reviewed and finalised ready for acceptance by Executive Council in mid 2012. This is a high priority and will require active engagement of the Management Groups of all RAs and TCs.

- ensure coordination with Regional implementation plans, and other plans such as EGOS-IP, GCOS-IP and the GFCS-IP which is under development;
- technical guidance on WIGOS implementation for RAs and Members as a matter of urgency;
- Establish the Task Team on WIGOS Implementation Plan.

Establish the Task Team on the Manual on WIGOS

Establish the Task Team on the WIGOS Metadata

Develop the WIGOS Communications and Outreach Strategy

Develop high level “info” packages on WIGOS for PRs and Partners



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What is RA V asked to do?

WMO Congress requested Regional Associations to:

- Develop their regional WIGOS implementation plans;
- Coordinate WIGOS implementation activities with WIS in their operating plan and work programme;
- Promote capacity building and outreach activities to assist Members in the implementation of WIGOS;



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What is RA V asked to do?

ICG-WIGOS and the WIGOS Project Office will seek RA engagement:

- Nomination of a focal point (WIGOS-RAFP)
- development of the Regional-WIP
- input/review for various documents: WIGOS-FA; WIGOS-IP; Manual on WIGOS;
- involvement in Communications and Outreach activities to promote WIGOS and its implementation;
- involvement in Capacity Building activities (training and education; capacity building projects to demonstrate the benefits of WIGOS)



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How will we tackle WIGOS in RA-V?

None of the decisions and developments regarding WIGOS come as a surprise. We already have:

- RA-V Strategic Operating Plan (2012-2015) which gives PRIORITY to five priority areas for WMO in 2012-2015:
 - Global Framework for Climate Services (GFCS);
 - Aviation meteorological services;
 - Capacity Building for the developing and least developed countries;
 - **Implementation of the WMO Integrated Global Observing System (WIGOS) and WMO Information System (WIS)**; and
 - Disaster Risk Reduction (DRR).



How will we tackle WIGOS in RA-V?

REGIONAL KEY OUTCOMES (RKOs)	Regional Key Performance Indicators
RKO 4.1.1: WIGOS is implemented Priority Area	<ul style="list-style-type: none">• Traceability of observations• Availability of station metadata• Regional WIGOS Demonstration Project initiated• Regional priorities for observing system development documented
RKO 4.1.2: Observing networks are implemented	<ul style="list-style-type: none">• Level of implementation of RBSN and RBCN including GSN and GUAN• Level of implementation of hydrological networks• Level of implementation of marine observations• Progress against GOOS, GTOS and GCOS Regional Action Plans
RKO 4.2.1: WIS is implemented Priority Area	<ul style="list-style-type: none">• Extent of participation in international exchange through the WIS / GTS• Existence of, and progress against, a regional implementation strategy for WIS / DAR services• Extent to which communication needs of members are met• Level of use of NWP products accessed via WIS



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How will we tackle WIGOS in RA-V?

None of the decisions and developments regarding WIGOS are unexpected, we already have:

- Working Group on Infrastructure (WG-INFR) to tackle the WIGOS-WIS priority area. The overall ToRs include:

....

➤ monitor, promote and develop integrated strategies for the Regional development and sustainable implementation of the observing systems of WMO Programmes and co-sponsored Programmes. Areas for attention include: advising the President of the Association on the proposed composition and changes to the RBSN and RBCN; promotion of traceability of instrument calibrations to international standards, building on the effective operation of Regional Instrument Centres; adopting relevant elements of WMO's Implementation Plan for Evolution of the GOS; extending the coverage of AMDAR aircraft reports; and lightning detection through local systems and participation in global networks;

➤ provide guidance and propose demonstration projects for the implementation of the WIGOS concept in the Region;

....



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How will we tackle WIGOS in RA-V?

WG-INFR currently tackles the ToRs through five specific tasks for which Task Teams have been formed:

Task Team on Pacific Satellite Communications (TT-PSC)

The work to be addressed by the Task Team includes:

- Review existing meteorological and climate service meteorological arrangements through communications surveys and RMTN arrangements.
- Review planned within-country improvements in communications infrastructure and plans for national meteorological/climate services to take part in upgrading their capacities.
- Make recommendations where opportunities lend themselves to multi-lateral solutions to address current gaps and future outlooks.
- Report out findings to relevant forums, such as the WG on Infrastructure (every three months), the SPREP RMSD, RANET Pacific Communications Steering Committee, etc.



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How will we tackle WIGOS in RA-V?

Task Team on Pacific Satellite Communications (TT-PSC)

Communications Survey: ...

Sent by SPREP April 2010 – 6 responses – we’ll try to get more now
(the “informed picture” of comms issues across the SW Pacific will to identify
things to tackle... and propose capacity building activities ...)



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How will we tackle WIGOS in RA-V?

Task Team on Pacific Satellite Communications (TT-PSC)

Satellite communications:

RANET / Emwin

Rapidcast



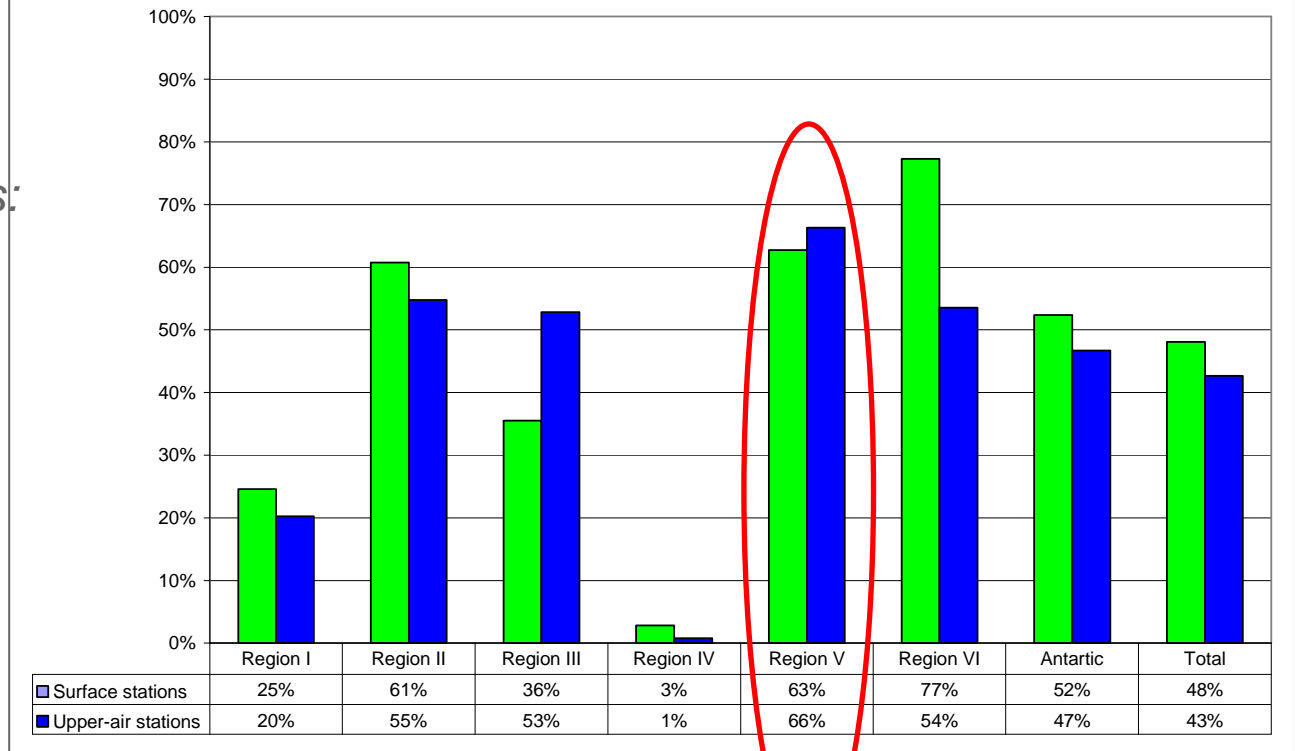
How will we tackle WIGOS in RA-V?

Task Team on Migration to Table Driven Code Forms in RA V (TT-TDCF)

The work to be addressed by the Task Team includes:

- Publicise annually amongst Members the WMO monitoring results with information about the WMO timelines for migration;
- Prepare a report on practical options for implementation of encoder/decoder software.

Percentage of RBSN stations for which BUFR reports were received by MTN centres during October 2010, January 2011, April 2011 and July 2011 IWM/SMM exercises





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How will we tackle WIGOS in RA-V?

Task Team on Migration to Table Driven Code Forms in RA V (TT-TDCF)

Encoder/decoder capabilities – possible “capacity building” project idea?



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How will we tackle WIGOS in RA-V?

Task Team on Regional Implementation Strategy for new WIS data DAR Services (TT-DAR)

The work to be addressed by the Task Team includes:

- Prepare a document describing “How the WIS Implementation Plan applies to RA-V”, including
 - ❖ For National Centres (NCs), a discussion of specific questions (new arrangements for providing metadata, will archived data be available for retrieval, will WIS be used to provide access to additional products,)
 - ❖ For Data Collection and Production Centres (DCPCs), a discussion of specific questions (the designation process and sources of information and assistance, arrangements for providing metadata,)
 - ❖ An overall strategy and timeline for RA-V linked to the establishment of GISC (Melbourne).
- A case study: documenting the establishment of an NC (possibly New Caledonia)
- A case study: documenting the establishment of a DCPC (possibly New Zealand)
- Periodic progress reports on the establishment of GISC (Melbourne)



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How will we tackle WIGOS in RA-V?

Task Team on Traceability of Observations (TT-TO)

The work to be addressed by the Task Team includes:

- Survey on the traceability of calibration standard in RA V.
- Information and advice on implementation of ISO 17025

WMO TRAINING WORKSHOP ON METROLOGY FOR SOUTHWEST PACIFIC RA V ENGLISH SPEAKING COUNTRIES

Melbourne, Australia, 14-18 November 2011

→ Country reports

→ Ideas for practical initiatives eg. supply of transfer standard units

(possible capacity building projects / WIGOS demonstration projects?)



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How will we tackle WIGOS in RA-V?

And Task Team for WIGOS

TASK TEAM ON wigos interpretation and opportunities (TT-WIGOS)

The work to be addressed by the Task Team includes:

Circulate a bulletin to Members containing

Information about the WIGOS Implementation Plan (WIP), how it applies to RA-V, and the activities in RA-V to develop a Regional-WIP;

A request for views on priorities for RA-V within the overall WIGOS framework, beyond those already addressed in the Strategic Operating Plan (2012-2015);

An invitation for suggested pilot or demonstration projects which could be highlighted in the R-WIP for RA-V, would contribute to capacity building and could be candidates for funding support

Contribute to the development of the Regional WIGOS Implementation Plan (R-WIP);

Contribute to the completion of relevant tasks in the R-WIP for RA-V



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How will we tackle WIGOS in RA-V?

Beyond the SOP and current working structure and work plans (MG and WG-INFR), what more needs to be done?

FP (rec Coordinator of TT-WIGOS)

R-WIP (rec TT-WIGOS coordinate extensive input/review, MG to provide guidance on Fri)

→ Recall GFCS 7th Implementation Principle: “To facilitate and strengthen but no to duplicate”

Cap Building Opps (close the link back to Clim Svcs here – are there specific practical-level needs for observations for climate that might attract support and possible sponsorship through the WIGOS initiative?)



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Thank you...

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