

SECOND MEETING OF THE  
RA VI MANAGEMENT GROUP

ITEM 4.1

GENEVA, 17-18 FEBRUARY 2010

Original: ENGLISH

**RA-VI Working Group on Technology Development and Implementation****Proposal for the establishment of Task Teams and nomination of members  
Draft Version, 26 January 2010**

Chair:	Jochen Dibbern – Germany (nominated)
Vice-Chair:	Matteo Dell'Acqua – France (nominated)
Core Members:	
ISS-West:	Chris Little – UK (from list of experts)
ISS-East:	Leonid Bezruk – Russian Federation (to be confirmed by PR)
DPFS:	Laurent Perron, France (from list of experts, available for nomination)
Regional Instrument Centres/ CIMO:	Drago Groselj – Slovenia (available for nomination)
Chairs of TTs	
TT-MTDCF:	Eva Cervena – Czech Republic (from list of experts, available for nomination)
TT-Redesign RBSN/RBCN – WIGOS DP:	Klaus-Jürgen Schreiber – Germany (available for nomination)
TT-WIS Development and Implementation:	G.-R. Hoffmann – Germany (available for nomination)
TT on RMDCN:	Matteo Dell'Acqua – France

**1. Task Team on Regional Migration to Table Driven Code Forms (TT/TDCF)**

At CBS-XIV it was reported that about ten per cent of the surface and upper-air reports from the RBSN stations were received in BUFR form at MTN centres in 2008 and the Commission noted the slow progress in the migration process. The situation in Region VI is better, but the migration process is not completed yet. To finalise and implement plans for the migration in accordance to the international migration plan approved by WMO Congress the Association agreed to set up a Task Team on Regional MTDCF under the Technology Development and Implementation Working Group. The Association encouraged NMHSs to collaborate with the Task Team to finalise the migration.

Draft Terms of Reference:

1. To keep updated the Regional Plan for the migration to TDCF,
2. To advice Members of the Region on all aspects related to the migration strategy,
3. To actively collaborate with the focal points for code and data representation matters designated by Members,
4. To guide Members in the use of encoder-decoder software,
5. To actively support training activities on TDCF in the Region,
6. To liaise with the CBS OPAG-ISS/IPET-DRC.

TT Members:

Chair: **Eva Cervena, Czech Hydromet Institute** – Czech Republic (from list of experts, available for nomination)

Members: Sybille Krebber DWD – Germany (available for nomination)  
Milan Dragosavac ECMWF (confirmed by the Director of ECMWF)  
Cetin Karahan Turkish State Meteorological Service (available for nomination)  
(NN from Russian Federation - Dimitar will look for candidate)

**2. Task Team on the Re-design of the RA-VI Regional Basic Observing Network (a WIGOS Demonstration Project) (TT/RRBON)**

The current design of the RA-VI RBSN/RBCN is based on work done during the late 1990s. Although continuously updated during the last years the design does not take into account those observing systems which have been developed from research applications to observations during the last years. Besides new satellite observations, new upper-air observing systems like measurements from commercial aircraft, wind profiler and weather radar system as well as ground based GNSS water vapour observations have to be mentioned. During the last years the EUMETNET/EUCOS operational programme is working on a redesign of the upper-air observing network. The work is based on results of Observing System Experiments which were conducted by different European NWP centres. Although restricted to the requirements of regional NWP in Europe, the results could be used as a basis for a model of an RA-VI Integrated Observing System.

Furthermore, recent improvements in climate change and adaptation science require optimised baseline data, e.g. for the appropriate handling of extremes. On the basis of European initiatives, like ECA/D, ENSEMBLES, MILLENIUM and EUMETGRID, the RBCN could be redesigned in order to further ensure the efficient use of its data in up-to-date climate research and applications.

It was therefore supported at XV RA-VI to set up a Task Team on the redesign of the RA-VI basic ground based observing network and to run this as a WIGOS Demonstration Project.

The Task Team should be composed of experts from IOS (satellite and ground based) and climate area and should review user requirements for the integrated observing network of all WMO Programmes, the new implementation plan for the evolution of the GOS (due to the new vision of the GOS for 2025 and WIGOS needs), network design activities from EUCOS and NMHSs of the Region and results from OSEs. Based on this the Task Team will develop a design of the Basic Integrated Observing System for RA-VI. After discussion at the relevant RA-VI Working Groups the design will be brought to the attention of the RA-VI Management Group for further consideration.

### Draft Terms of Reference:

1. Review of the Implementation plan for the GOS and WIGOS needs.
2. Review existing user requirements of WMO Programmes (RRR process).
3. Review work done by the EUCOS programme on the redesign of the synoptic and upper-air network and liaise with the EUCOS Team.
4. Review capabilities of new satellite observations and liaise with EUMETSAT.
5. Review work done on network design by European NMHSs.
6. Take into account data requirements of recent climate initiatives in the Region, like in the EUMETNET/ECSN, the EU FP 7 and the RCC context.
7. Develop a draft of the RA-VI Regional Basic Observing Network and coordinate with relevant RA-VI Working Groups.
8. Liaise with CBS-OPAG-IOG and CCI-OPAG on Climate Data and Data Management.
9. Report progress to Working Group on Technology Development (depends on the organisational structure XV-RA VI will decide).
10. Present results of the design to RA-VI Management Group for further consideration.

### TT Members:

- a) Experts on IOS of the Region including a representative from EUMETSAT,
- b) Experts on climate related matters, representing ground bases and space based observing systems, quality monitoring and data assimilation for NWP and climate modelling.

Chair: **Klaus-Jürgen Schreiber – DWD, Germany** (available for nomination)  
Aryan von Engelen – KNMI, Netherlands (from list of experts)  
EUCOS Team (Jochen Dibbern or Stefan Klink)  
EUMETSAT (EUMETSAT replied positive to email contact but official nomination of expert is still pending)  
NN from Eastern Europe (Aryan is looking for a candidate)

### **3. Task Team on WIS Development and Implementation (TT/WIS-DI)**

Region VI has made a significant contribution through CBS and participation in ICG-WIS in leading the implementation of WIS. The SIMDAT project and subsequent investigations into the establishment of a RA-VI Virtual GISC helped refine many of the issues associated with the new components and functionality of WIS. The GISC and associated DCPCs projects from DWD, Météo France and UK Met Office will result in first installations of GISC prototypes in 2010.

The implementation of WIS data representation and metadata standards to satellite data is closely connected to the WIS implementation activities in RA-VI and should be monitored by the TT.

It is therefore proposed to establish a Task Team on WIS Development and Implementation under the WG-TDI.

### Draft Terms of Reference:

1. Review the recommendations and proposals developed by CBS-ICT-ISS relevant to WIS development and implementation and by ICG-WIS, and develop an implementation plan for RA-VI.
2. Assess the implementation aspects for Region VI,

3. Coordinate pilot project installations of GISC and DCPC centres in RA-VI and monitor the VGISC development.
4. Assist Region VI centres in joining the WIS.
5. Liaise with the relevant CBS-OPAG-ISS Expert Teams.
6. Identify implementation issues requiring the consideration of the OPAG-ISS-ETs.
7. Monitor the progress of IGDDS development and implementation.
8. Monitor the implementation of the INSPIRE directive, and guarantee compliance with WIS data model defined by IPET-MDI.

TT Members:

Chair: **G.-R. Hoffmann, DWD** – Germany (available for nomination)  
 Chris Little, UKMO – UK for Inspire and WIS (proposed by UK)  
 Lothar Wolf, EUMETSAT (confirmed by Director General of EUMETSAT)  
 Baudoin Raoult, ECMWF (confirmed by ECMWF)  
 Roar Skalin, Met.no (nomination confirmed)

**4. Task Team on RMDCN (TT/RMDCN)**

The RMDCN has proved to be a reliable and cost effective means of providing an RMTN within RA-VI. There are now 40 Members connected directly to the RMDCN, ECMWF and EUMETSAT are also connected as well as four RTHs outside RA-VI. Due to the importance of the RMDCN for the Region it is proposed to re-establish the RMDCN Steering Group as a Task Team under the WG-TDI.

Draft Terms of Reference:

1. To review the matters related to the operation of the RMDCN,
2. To ensure coordination between all RA-VI Member countries and other Members connected to the RMDCN,
3. To maintain close coordination with the TT on WIS Development and Implementation,
4. To make proposals for upgrading the capacities of the RMDCN considering the future implementation and operation of the WIS and the impact of the future GISCs and DCPCs on the performance of the network
5. To liaise with the CBS-OPAG-ISS,
6. To prepare in collaboration with ECMWF possible changes in the RMDCN, including the preparation of a new procurement for the RMDCN
7. To assist the RA-VI Member countries in joining the RMDCN and implementing their connection.

TT Members:

Chair: **Matteo Dell'Acqua, Météo France** – France (available for nomination)

**GISC**

UK	Steve Foreman
Germany	Hans Janßen
Russia	Leonid Bezrouk

**DCPC**

Italy	Giuseppe Leonforte
ECMWF	Isabella Weger
Sweden	Klas Linne
EUMETSAT	Yves Buhler

**NC**

Bulgaria	Mariana Grueva
Norway	Roar Skålin

**GISC outside RA-VI**

Japan	Teruko Manabe
China	Zhao Licheng