

**WORLD METEOROLOGICAL ORGANIZATION**

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COMMISSION FOR INSTRUMENT AND  
METHODS OF OBSERVATION

**OPAG-UPPER AIR**

**CIMO EXPERT TEAM ON  
UPGRADING THE GLOBAL RADIOSONDE NETWORK**  
*First Session*

Geneva, Switzerland, 3-7 November 2003

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ITEM: 4

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**WORK PLAN**

*(Submitted by the Secretariat)*

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**Summary and purpose of document**

This document contains a draft Work Plan of ET on UGRN.

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**Action proposed**

The meeting is invited to examine the draft Work Plan for ET on UGRN and to decide on a final plan.

### **Work Plan of the Expert Team on Upgrading the Global Radiosonde Network**

1. Based on the CIMO-XIII decisions, the CIMO Management Group (CIMO-MG) decided on a Milestone Plan to provide a basic guidance for planning of CIMO activities. The Milestone Plan is based on CIMO OPAGs' structure and their respective TOR. The Plan should assist co-chairpersons of OPAGs and leaders of ETs in preparing their Work Plans.
2. Draft Work Plan of the Expert Team, as presented in the Annex, takes into account the Tasks to be undertaken by the CIMO OPAGs, the TOR of Expert Teams and the CIMO-MG Milestone Plan.

## ANNEX

**WORK PLAN**  
**Expert Team on Upgrading the Global Radiosonde Network**  
(2003-2006)

No.	Task description	Person responsible	Action	Deadline	Deliverables	Deadline
<b>1</b>	<b>Improve the global radiosonde network</b>					
1 a)	Develop techniques and report annually on the performance of radiosonde types in the GOS		1. Develop techniques for a performance monitoring of radiosondes	Nov.04	<ul style="list-style-type: none"> <li>• Approved techniques for a performance monitoring of radiosondes</li> <li>• Agreed reporting mechanisms</li> <li>• Agreed mechanisms for remedial actions</li> <li>• Report to Members on radiosonde types used in GOS</li> </ul>	Dec.04
			2. Suggest reporting mechanism to members	Nov.04		Dec.04
			3. Suggest mechanism for a remedial actions	Nov.04		Dec.04
			4. Preparation of yearly reports			Yearly
1 b)	Solicit agreement on BUFR code table and descriptors for international use		1. Recommend the code table and descriptors for international use	Dec.03	<ul style="list-style-type: none"> <li>• Report on agreement achieved on BUFR code table and descriptors</li> <li>• Report to the relevant CBS ET/ICT for approval by CBS</li> </ul>	Apr.04
			2. Solicit agreement on recommended code table and descriptors	Mar.04		Apr.04
<b>2</b>	<b>Investigate error characteristics of water vapour measurements and explore compatibility between the different types of measurement</b>					
2 a)	Monitor and assist in the introduction of humidity measurements in AMDAR Systems		1. Review the status of humidity measurements in AMDAR systems	Mar.04	<ul style="list-style-type: none"> <li>• IOM Report on the Status of humidity measurements in AMDAR systems</li> <li>• Annual reports on progress in AMDAR Systems</li> <li>• IOM Report on Advice on</li> </ul>	Sep.04
			2. Study the role of CIMO and ways of its integration into AMDAR	Jun.04		Yearly
						Dec.04

No.	Task description	Person responsible	Action	Deadline	Deliverables	Deadline
					how to best integrate CIMO into AMDAR	
<b>3</b>	<b>Standardize data processing radiosonde algorithms</b>					
3 a)	Determine the consistency of data processing radiosonde algorithms for TEMP messages		<ol style="list-style-type: none"> <li>1. Review the available data processing algorithms</li> <li>2. Study the consistency of data processing radiosonde algorithms for TEMP messages</li> <li>3. Provide proposal on recommended radiosonde algorithms for TEMP messages</li> </ol>	<p>Dec.03</p> <p>Mar.04</p> <p>Apr.04</p>	<ul style="list-style-type: none"> <li>• IOM Report on Data processing radiosonde algorithms</li> <li>• Report to the relevant CBS ET/ICT for approval by CBS</li> </ul>	<p>Sep.04</p> <p>May.04</p>
<b>4</b>	<b>Development of technical information for support of radio frequency sharing policy for WRC</b>					
4 a)	Improve coordination of radiosonde (and other systems) operating frequencies between neighboring countries		<ol style="list-style-type: none"> <li>1. Suggest mechanisms for better coordination of radiosonde (and other systems) operating frequencies between neighboring countries</li> <li>2. Review in cooperation with the HMEI the current and new ground based systems and their frequencies used</li> </ol>	<p>Mar.04</p> <p>Nov.04</p>	<ul style="list-style-type: none"> <li>• Approved mechanisms for coordination of radiosonde (and other systems) operating frequencies between neighboring countries</li> <li>• IOM Report on the Current and new systems and their frequencies used</li> </ul>	<p>Sep.04</p> <p>Mar.05</p>
4 b)	Assist in coordination and protection of radio frequencies for ground-based observing systems		<ol style="list-style-type: none"> <li>1. Develop proposals for coordination and protection of radio frequencies for ground-based observing systems</li> </ol>	May.04	<ul style="list-style-type: none"> <li>• Recommendations to ITU</li> <li>• IOM report on coordination and protection of radio frequencies for ground-based observing systems</li> </ul>	<p>Sep.04</p> <p>Dec.04</p>

No.	Task description	Person responsible	Action	Deadline	Deliverables	Deadline
5	<b>Provide advice on <i>Quality Management Systems</i> procedures for instruments and methods of observation</b>					
5 a)	Develop performance measures to demonstrate continuous improvement in the quality of upper-air observations		<ol style="list-style-type: none"> <li>1. Develop procedures for quality management of upper-air observations, instrument maintenance, calibration and operational practices</li> <li>2. Suggest methodology to demonstrate the effectiveness of such procedures</li> </ol>	<p>Dec.04</p> <p>Dec.04</p>	<ul style="list-style-type: none"> <li>• IOM Report on Procedures for quality management of upper-air observations, instrument maintenance, calibration and operational practices</li> </ul>	Feb.05
5 b)	Contribute to the review and update of WMO Technical Regulations, Guides and other material related to Quality Management and standardization of upper-air observations		<ol style="list-style-type: none"> <li>1. Make proposals for update of the relevant part of the CIMO Guide</li> </ol>	Dec.04	<ul style="list-style-type: none"> <li>• Draft update of the CIMO Guide</li> </ul>	Mar.05