

# **REGIONAL ASSOCIATION V (SOUTH-WEST PACIFIC)**

**FIFTH SESSION OF THE RA V MANAGEMENT GROUP**

**CITEKO, INDONESIA, 20-22 SEPTEMBER 2010**

**FINAL REPORT**



**WORLD METEOROLOGICAL ORGANIZATION**

**FIFTH SESSION OF THE RA V MANAGEMENT GROUP**  
***(Citeko, Indonesia, 20-22 September 2010)***

**1. OPENING OF THE SESSION (AGENDA ITEM 1)**

1.1 The fifth session of the RA V Management Group (MG-5) was held at the multi-purpose building of the Indonesia Agency for Meteorology, Climatology and Geophysics (BMKG) in Citeko, Indonesia from 20 to 22 September 2010 at the kind invitation of the Government of Indonesia. The MG-5 was attended by 21 participants, including the president and vice-president of RA V, MG members and advisers, and Leads of RA V Working Groups on: Hydrological Services (WG-HYS); Climate Services (WG-CLS); Weather Services (WG-WXS); and Infrastructure (WG-INFR). The list of participants is attached as Annex I to this report.

1.2 Dr Sri Woro B. Harijono, president of RA V, opened the session at 11.00 a.m. on 20 September 2010. She extended a warm welcome to all participants and thanked the members for accepting her invitation to attend the meeting. She also thanked the WMO Secretariat and local organizing committee for the arrangements made in organizing this session. She stressed that this meeting should focus on producing a smaller number of deliverables to be more effective and feasible in the implementation of the RA V Strategic Operating Plan (SOP) 2012-2015. The current MG session should develop a possible working structure and Terms of Reference of the Working Groups that are theme focus oriented, simple, flexible but efficient in communication. The meeting should also pay attention to the upcoming Regional Seminar and preparation for the Sixteenth Congress (Cg-XVI). She stated Indonesia's offer in collaboration with WMO to host an additional training seminar to be held in 2011 on the issue of tropical and marine modeling analyses and tools.

1.3 Dr Tokiyoshi Toya, Regional Director for Asia and the South-West Pacific, on behalf of the Secretary-General of WMO, also welcomed participants, and expressed his appreciation to the Government of Indonesia for hosting the session in Citeko. He extended his gratitude to Dr Sri Woro B. Harijono and BMKG staff for the extremely warm hospitality and excellent arrangements made for the meeting. With reference to key areas for discussion and decision, he expressed his confidence that the outcomes of this MG session would provide proper guidance to the work of the Association and its subsidiary bodies and be of significant input to the WMO Strategic and Operating Planning for 2012-2015 as well as to the decisions of Cg-XVI.

1.4 The Management Group adopted the agenda of the session, which is given in Annex II to this report, and agreed on the working arrangements.

**2. MATTERS ARISING FROM THE FOURTH SESSION OF THE RA V MANAGEMENT GROUP (AGENDA ITEM 2)**

2.1 The Management Group reviewed the final report of the fourth session of the RA V Management Group (MG-4: Geneva, 10 June 2010), which focused mainly on the development of the RA V SOP 2012-2015; the working mechanism of the Association; and preparation for the MG-5. With the agreement of the Group, the president approved the report of the MG-4. The Group further agreed that the follow-up to the fifteenth session of RA V (Bali, 30 April - 6 May 2010) and preparation for Cg-XVI were the main issues for the MG-5 session, which were to be discussed under relevant agenda items 3.1 to 3.3 and 5, respectively.

2.2 The Group was briefed on the progress of the WMO-World Bank-UNISDR-UNDP initiative of a regional disaster risk management and adaptation programme for five countries in Southeast Asia. Dr P. Nilo (Philippines), consultant of this programme, completed the country assessment reports, which are being reviewed by the relevant experts of the World Bank and WMO.

2.3 The Group was pleased to note that Mr Pene Lefale (New Zealand) and Dr Wan Azli (Malaysia), chair and vice-chair of the RA V network of International Advisers to the Permanent Representatives (INTAD-V), will be invited as lecturers to the International Training Seminar on "South-South Cooperation on Weather and Climate" for RAs I, II and V (Nanjing, China, 8-12 November 2010), which could be utilized to reactivate the INTAD-V activities.

### **3. FOLLOW-UP TO THE FIFTEENTH SESSION OF REGIONAL ASSOCIATION V (XV-RA V) (AGENDA ITEM 3)**

#### **3.1 Implementation of the RA V Strategic Plan (2010-2011) and development of the Strategic Operating Plan (2012-2015)**

3.1.1 The Management Group recalled that the MG-4 had agreed that (a) SOP deliverables should be further streamlined by identifying needs and priorities under the five regional priority areas and be mapped to eight Expected Results of the new WMO Strategic Plan; and (b) SOP 2012-2015 should be concise (possibly 10-20 pages) with indication of primary responsible action players and budget for the implementation, and requested Dr N. Gordon (New Zealand) to take the lead in accomplishing this task. It further recalled that the Management Group was requested by XV-RA V to develop and conduct a periodical survey of the basic capability of NMHSs in RA V.

#### *Development of the Strategic Operating Plan 2012-2015*

3.1.2 A draft RA V Strategic Operating Plan (SOP) 2012-2015 was presented to the MG-5 by Dr N. Gordon (New Zealand). He highlighted the consistency between the five WMO-identified priority areas and the five areas to which XV-RA V attached the highest priority. A total of 40 Regional Key Outcomes (RKO) were introduced with identification of primary responsible action players to supplement the Key Outcomes (KOs) of the draft WMO Strategic Plan 2012-2015. Each RKO had associated deliverables based largely on those from the previous preliminary draft RA V SOP but supplemented by existing plans and initiatives underway. A total of 23 deliverables were identified under the RA V priority-area RKO.

3.1.3 The Group reiterated that the Regional Association subsidiary bodies did not necessarily need to be responsible for implementing all the necessary activities (Members and other programmes do much of this), and expressed the following general views:

- (1) Deliverables should be achievable and not just a wish list;
- (2) Implementation of RA V Regional Climate Centres (RCCs) should be more highlighted in the SOP;
- (3) A single or two key performance indicator(s) could be identified for each RKO; and
- (4) Key responsible players should be identified; e.g., Members, Technical Commissions and RA V WGs.

3.1.4 The Group considered that a possible table format would have columns of: (1) RKO; (2) relevant regional Key Performance Indicators (KPIs); and (3) identification of those primarily responsible for activities to achieve the RKO.

3.1.5 Following extensive discussions and a process of consolidation of the RKO's and identification of the regional KPI's, making use of the previous deliverables, a revised draft SOP was produced, as given in Annex III. This revised draft has a total of 19 RKO's and a total of 46 KPI's. Five RKO's were identified as Priority Areas, with 17 associated KPI's. The Group agreed on the necessary actions to finalize the SOP by the end of December 2010.

3.1.6 In view of the need for good forward planning so that Members could take advantage of the opportunity of training activities, and consider whether lecturers could be made available, the Group requested the Regional Office for Asia and the South-West Pacific (RAP Office) in coordination with the Education and Training Office and Technical Departments to facilitate the provision of a regularly updated list of expected training activities for the coming twelve-month period.

### Survey Questionnaire

3.1.7 The Group reviewed a preliminary draft RA V Survey Questionnaire, prepared by the Secretariat based on the RA II Survey on the Basic Capability of NMHS's in Asia, for monitoring the progress of the implementation of the RA V Strategic Plan 2010-2011.

3.1.8 The MG-5 decided that efforts should also focus on establishing a baseline for monitoring and evaluation of the RA V SOP 2012-2015. In order to make the questions more meaningful and helpful for evaluation, the Group agreed to request the Leads of the Working Groups and Chair of TCC to review the questions in the preliminary draft questionnaire and propose appropriate questions taking into account, in particular, the regional KPI's in the updated draft RA V SOP 2012-2015. The Group also agreed that the title of the questionnaire should properly reflect the purpose of the survey and expected results. It further agreed that the answers should be collected in a database to facilitate sharing of the results and comparisons with future surveys. The ongoing Secretariat project for "Country Profile Database", which could be a resource for tracking progress, was also noted.

3.1.9 A list of actions required for the period from September 2010 to December 2010 is given in Annex IV for the finalization of RA V SOP, as well as those for finalization of the RA V Survey Questionnaire.

## **3.2 Working mechanism of the Association**

3.2.1 The Group was informed of the status of nomination of theme leaders and volunteer experts. As of 20 September 2010, formal and informal nominations had been received from Australia, Cook Islands, Indonesia, Malaysia, New Caledonia, New Zealand, Singapore, Tonga and USA. The Group established a small ad hoc group to consider the available nominations. The recommendations by the ad hoc group on the theme leaders and volunteer experts were submitted to the MG-5. The Group agreed to carry out another round of nomination process by the end of October 2010 to complete the list of theme leaders and experts. For this purpose, the Leads of WGs were requested to complete the Terms of Reference of each theme leader by 10 October 2010 to facilitate PR's designation of experts. After a careful review of CV's of nominated theme leaders and experts by the Leads of WGs and the Management Group, the president would approve all the theme leaders and volunteer experts at mid-November 2010.

3.2.2 Proposed Terms of Reference and Work Plans of each WG were presented by the Leads of WGs to the MG-5 session. The Group underlined the need for consistency in the Terms of Reference and Work Plans of the Working Groups and agreed to use the format of the Working Group on Weather Services as a template. Each Lead was requested to identify no more than five activities, each of which should be clearly linked back to the RKO's in the draft RA V SOP 2012-2015, with Work Plans for those activities that made it very clear what would actually be done and in what time frame.

3.2.3 In view of the limited funds allocated under the Regional Programme regular budget, the Group agreed that WG sessions should be organized efficiently and make use of the occasions of the Regional Seminar and Technical Conference. It also noted that the WG session budget could be supplemented by the other WMO Technical Programmes (e.g., Tropical Cyclone Programme; World Climate Programme; and Hydrology and Water Resources Programme).

3.2.4 The agreed work schedule for the finalization of RA V work structure is also given in Annex IV.

### **3.3 Regional Seminar**

3.3.1 The Group reviewed the topics proposed by XV-RA V and considered that a number of proposed topics related to climate services. It therefore agreed that a general topic (theme) of "Climate Services" be selected and possible lectures and presentations be suggested by the Leads of Working Groups. The Group agreed to establish a programme organizing committee composed of the Leads of WG-CLS (coordinator), WG-HWS, WG-INFR, a representative of the host country NMHS and the RAP Office. It requested the programme organizing committee to work on the programme of the seminar and report to the MG-6 session planned for May 2011 during Cg-XVI.

3.3.2 The Group expressed its appreciation for the kind offer of the Government of Solomon Islands to host the Regional Seminar scheduled for the year 2011. It agreed that the Seminar be held in October 2011 for 3.5 days with a subsequent half-day Management Group session (total four days), and requested the Secretariat to initiate the necessary arrangements with the host country for the organization of the Regional Seminar.

## **4. ACTIVITIES OF THE REGIONAL OFFICE FOR ASIA AND THE SOUTH-WEST PACIFIC AND THE WMO OFFICE FOR THE SOUTH-WEST PACIFIC (AGENDA ITEM 4)**

4.1 The RA V MG-5 reviewed the activities of the Regional Office for Asia and the South-West Pacific (RAP Office) and the WMO Office for the South-West Pacific (in Apia, Samoa) since May 2010, including the implementation of Finnish-Pacific project's second training workshop on QMS (Nuku'alofa, Tonga, 26-30 July 2010); the installation and training under the coordinated LRIT project; and a national training provided to Kiribati.

4.2 The Group paid special attention to: (a) the ongoing work for the revision of the Memorandum of Understanding with SPREP on sharing of resources to increase technical and administrative capacity of the WMO Office for the South-West Pacific (Apia) and SPREP; and (b) the outcome of the 21<sup>st</sup> SPREP Officials Meeting and the Environment Ministers Meeting (Madang, Papua New Guinea, 6-10 September 2010), which endorsed the recommendations emanating from the SPREP review report entitled "Reviewing weather and climate services in the Pacific" and the way forward, and included meteorology (weather and climate) into the SPREP strategic priorities of the new SPREP Strategic Plan 2011-2015.

## **5. PREPARATION FOR THE SIXTEENTH WORLD METEOROLOGICAL CONGRESS (AGENDA ITEM 5)**

5.1 The Group recalled that EC-LXII confirmed the decision made by Fifteenth Congress that Sixteenth Congress should be held from Monday, 16 May to Friday, 3 June 2011.

5.2 The Group reviewed the 12 proposals by the Executive Council Working Group on WMO Strategic and Operational Planning (EC WG/SOP) on WMO reform, and recognized

that the new arrangements for operation of the RA V Management Group and Working Groups were consistent with those proposed improvements. The Group paid special attention to the following two proposals:

- (1) Intergovernmental part of regional association and/or technical commission meetings reduced to a single day. Saving in shortening intergovernmental session used to fund more frequent technical conferences (or other relevant meetings) throughout the financial period; and
- (2) The one-day intergovernmental part of regional association and/or technical commission meetings undertaken at or immediately prior to Congress;

and expressed the view that the RA V MG supports the proposals in principle.

5.3 It also recalled that EC-LXII considered the proposal submitted by the president of RA II to increase the number of EC members from 37 to 38 to allow for an additional EC seat (from six to seven) for RA II, for discussion at the Sixteenth Congress, in accordance with the procedures given in the WMO Convention. The Group felt that EC was large enough already.

5.4 In view of the fact that Marshall Islands, Palau and Tuvalu are in the process of becoming WMO Members, in addition to Timor-Leste, which became a Member of WMO on 8 December 2009, the Group agreed to encourage and assist these potential WMO Members to accelerate the WMO membership process.

5.5 The Group noted the list of meetings to be proposed to Cg-XVI for budget allocation, in particular meetings related to RA V subsidiary bodies. It agreed that the budget be allocated to allow for four Working Group meetings during the sixteenth financial period. It further agreed on the need for a budget-planning meeting by the Management Group to allow flexible use of the allocated budget and scheduling of meetings with a focus on activities of high-impact to the Region.

## **6. OTHER BUSINESS (AGENDA ITEM 6)**

6.1 The MG-5 was pleased to note a proposal from BMKG to host a capacity building training workshop on "Ocean maritime weather and climate modeling analyses and tools" in Indonesia in 2011 or 2012. Australia, New Zealand and Indonesia were expected to contribute to the training workshop by delivering lectures. Such a workshop would need to be coordinated with the WMO/IOC Joint Commission for Oceanography and Marine Meteorology (JCOMM). In the workshop Indonesia would propose an advance wind-wave modeling for ocean weather and sea surface temperature prediction for ocean climate. Other experienced Members from the Region were encouraged to contribute to this training workshop.

## **7. CLOSURE OF THE SESSION (AGENDA ITEM 7)**

7.1 The participants and the representative of WMO expressed their thanks and appreciation to the Government of Indonesia and the president of RA V, Dr Sri Woro B. Harijono, and BMKG staff for the warm hospitality and excellent arrangements made.

7.2 The fifth session of the RA V Management Group closed at 11.20 a.m. on 22 September 2010.

**WORLD METEOROLOGICAL ORGANIZATION**

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**FIFTH SESSION OF THE RA V MANAGEMENT GROUP (MG-5)**

*(Citeko, 20-22 September 2010)*

**LIST OF PARTICIPANTS**

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**FIFTH SESSION OF THE REGIONAL ASSOCIATION V (SOUTH-WEST ASIA)  
MANAGEMENT GROUP (MG-5)**

*(Citeko, 20-22 September 2010)*

**AGENDA**

1. Opening of the Session
  2. Matters arising from the fourth session of the RA V Management Group
  3. Follow-up to the fifteenth session of Regional Association V (XV-RA V)
    - 3.1 Implementation of the RA V Strategic Plan (2010-2011) and development of the RA V Strategic Operating Plan (2012-2015)
    - 3.2 Working mechanism of the Association
      - Terms of Reference and membership of the Working Groups
      - Terms of Reference and membership of the Task Teams
      - Work Plan for the established subsidiary bodies
    - 3.3 Regional Seminar
      - Date and place
      - Topics and work plan
  4. Activities of the Regional Office for Asia and the South-West Pacific and the WMO Office for the South-West Pacific
  5. Preparation for the Sixteenth World Meteorological Congress (Cg-XVI)
  6. Other business
  7. Closure of the Session
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**DRAFT**

**RA V STRATEGIC OPERATING PLAN  
2012-2015**

**(updated following discussions at MG-5)**

**Context - The Structure of the WMO Strategic Plan 2012-2015**

Starting with the three Global Societal Needs (GSNs), the WMO Strategic Plan defines five Organization-wide Strategic Thrusts (STs) and eight Expected Results (ERs) to achieve its vision, as shown in Table 1.

Table 1: Schematic representation of the structure of WMO Strategic Plan 2012-2015

		5 Strategic Thrusts		8 Expected Results	
<b>WMO Strategic Plan 2012-2015</b>	<b>3 Global Societal Needs</b>	1. Improved protection of life and property (related to the impacts of hazardous weather, climate, water and other environmental events and increased safety of transport on land, at sea, and in the air)	<b>Improving Service Quality and Service Delivery</b>	1. Enhanced capabilities of Members to deliver and improve access to high-quality weather, climate and water and related environmental predictions, information and services in response to users' needs and to enable their use in decision-making by all relevant societal sectors	
				2. Enhanced capabilities of Members to reduce risks and potential impacts of hazards caused by weather, climate and water and related environmental elements	
			<b>Advancing Scientific Research and Application as well as Development and Implementation of Technology</b>	3. Enhanced capabilities of NMHSs to produce better weather, climate, and water and related environmental information, predictions and warnings to support in particular climate impact and adaptation strategies	
	4. Enhanced capabilities of Members to access, develop, implement and use integrated and interoperable Earth-and space-based systems for weather, climate and hydrological observations, as well as related environmental observations, based on world standards set by WMO				
		5. Enhanced capabilities of Members to contribute to and draw benefits from the global research capacity for weather, climate, water and environment science and technology development			
	2. Poverty alleviation, sustained livelihoods and economic growth (in connection with the Millennium Development Goals) including improved health and social well-being of citizens (related to weather, climate, water and environmental events and influence)	<b>Strengthening Capacity-building</b>	6. Enhanced capabilities of NMHSs, in particular in developing and least developed countries, to fulfill their mandates		
		<b>Building and Enhancing Partnerships and Cooperation</b>	7. New and strengthened partnerships and cooperation activities to improve NMHSs' performance in delivering services and to increase the value of the contributions of WMO within the United Nations system, relevant international conventions and national strategies		
	3. Sustainable use of natural resources and improved environmental quality	<b>Strengthening Good Governance</b>	8. An effective and efficient Organization		

## Context - Priorities

Within the five Strategic Thrusts and eight Expected Results, WMO as a whole has identified the following five priority areas that have significant contribution to the achievement of the expected results:

- 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).

Region V agreed at its fifteenth session in May 2010 (paragraph 5.2.6) to attach the highest priority to the following five areas, which are very consistent with the overall WMO priorities. They have been re-ordered to show how they correspond to these WMO global priorities.

- (a) Better climate services;
- (b) Sustainable aviation services;
- (c) Capacity building;
- (d) Improved infrastructure (data and information services) for weather, climate and water; and
- (e) Improved end-to-end Multi-Hazard Early Warning Systems (MHEWS).

## Global and Regional Key Outcomes

The eight ERs have been further delineated by Key Outcomes (KOs) at the global level, and their associated Key Performance Indicators (KPIs) to measure the success in achieving the results.

Within the following sections, each of the ERs and table of resultant KOs has been supplemented by a table showing **Regional Key Outcomes (RKO)** for RA V.

The RKOs are numbered to show the global KO they relate to – for example, RKO 1.1.3 for “Public weather services are improved” supports the global KO 1.1 for “improved access to seamless weather, climate, water, and related-environmental products and services (e.g., warnings, forecasts and supporting information)”.

Each RKO is expressed in the form of “something” (e.g., “Public weather services”) followed by a description of how we would like to characterize them (e.g., “are improved”).

Also, for each RKO those primarily involved in activities to achieve the RKOs are listed. Many of these are for the Members themselves to carry out. There are also supporting WMO Programmes or parts of them. Some (but not all) activities will have explicit involvement of RA V subsidiary bodies. Some RKOs which match and support the five priorities agreed at XV-RA V are identified as **Priority Areas**.

Detailed activities to support these RKOs will come through approved work plans for the individual RA V subsidiary bodies (e.g., the elaboration of the Tropical Cyclone Operational Plan) as well as through the activities of the Scientific and Technical Programmes, Technical Commissions, and other WMO working groups.

In terms of this plan and the overall work plans, there of course needs to be recognition of the diversity in the region of:

- Capabilities of NMHSs;
- User communities and requirements; and

- Funding sources and access to resources and staffing.

### **Monitoring and Evaluation**

Monitoring and evaluation are important tools in results-based management to help improve performance and achievement of results. Information will be regularly gathered from Members through surveys, and from information already gathered or held by the WMO Secretariat. This will be used to establish a “baseline” for the Regional KPIs listed in this plan, and then for regular tracking of progress against those Regional KPIs.

**Expected Result 1(ER 1):**

**Enhanced capabilities of Members to deliver and improve access to high-quality weather, climate, water and related environmental predictions, information and services in response to users' needs and to enable their use in decision-making by all relevant societal sectors**

The Key Outcome (KO) under ER 1 addresses the rapidly changing paradigm for the provision of weather, climate, water and related environmental services.

<b>Key Outcomes</b>	<b>Key Performance Indicators</b>	<b>Contributing Programmes</b>
<b>KO 1.1: improved access to seamless weather, climate, water, and related-environmental products and services</b> (e.g., warnings, forecasts and supporting information)	<ul style="list-style-type: none"> <li>Analyses showing the social and economic benefits of the improved services</li> <li>NMHSs with regular access to products provided by global and regional centres</li> </ul>	World Weather Watch Programme Applications of Meteorology Programme Disaster Risk Reduction Programme Overall coordination of WMO Scientific and Technical Programmes
<b>KO 1.2: Delivery of weather, climate, water and related environmental products and services to users' communities is improved</b>	<ul style="list-style-type: none"> <li>Increase in users with timely access to an increased number and range of products</li> </ul>	Applications of Meteorology Programme

<b>REGIONAL KEY OUTCOMES (RKOs)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<b>RKO 1.1.1:</b> Aviation weather services are effective and sustainable	<ul style="list-style-type: none"> <li>Level of compliance with ICAO standards and recommended practices (SARPS)</li> </ul>	<b>Priority Area</b> <ul style="list-style-type: none"> <li>Members</li> <li>Aeronautical Meteorology Programme</li> <li>WG Weather Services</li> </ul>
<b>RKO 1.1.2:</b> Marine services are improved	<ul style="list-style-type: none"> <li>Level of satisfaction of users</li> <li>Level of accuracy of marine forecasts and warnings</li> </ul>	<ul style="list-style-type: none"> <li>Members</li> <li>Marine Meteorology and Oceanography Programme</li> </ul>
<b>RKO 1.1.3:</b> Public weather services are improved	<ul style="list-style-type: none"> <li>Level of satisfaction of users</li> <li>Level of accuracy of public forecasts and warnings</li> </ul>	<ul style="list-style-type: none"> <li>Members</li> <li>Public Weather Services Programme</li> </ul>

**Expected Result 2 (ER 2):**

**Enhanced capabilities of Members to reduce risks and potential impacts of hazards caused by weather, climate and water and related environmental elements**

Key Outcomes	Key Performance Indicators	Contributing Programmes
<p><b>KO 2.1: Multi-hazard early warning systems</b> are implemented</p>	<ul style="list-style-type: none"> <li>• Increase in the number of NMHSs with multi-hazard early warning systems</li> <li>• Number of NMHSs integrated into national emergency management systems</li> <li>• Developing country Members providing disaster risk reduction products and services</li> </ul>	<p>World Weather Watch Programme</p> <p>Disaster Risk Reduction Programme</p> <p>Technical Cooperation Programme</p>
<p><b>KO 2.2: National integrated flood management plans</b> are developed</p>	<ul style="list-style-type: none"> <li>• Number of Members establishing flood management plans</li> <li>• Number of regional hydrological forecasting systems established in transboundary basins</li> </ul>	<p>Hydrology and Water Resources Programme</p>
<p><b>KO 2.3: Drought early warning systems</b> are improved</p>	<ul style="list-style-type: none"> <li>• NMHSs and Regional Centres issuing drought early warnings</li> <li>• Satisfaction in drought early warnings issued by NMHSs and Regional Centres</li> </ul>	<p>Applications of Meteorology Programme</p> <p>World Climate Programme</p>



<b>REGIONAL KEY OUTCOMES (RKO)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<b>RKO 2.1.1:</b> Multi-hazard early warning systems are implemented and improved.	<ul style="list-style-type: none"> <li>• Completion of Tropical Cyclone Operational Plan (TCOP) milestones</li> <li>• Level of success of the Severe Weather Forecast and Disaster risk reduction Demonstration Project (SWFDDP) including the western window extension.</li> <li>• Level of implementation including coverage and number of hazards of multi-hazard early warning systems</li> <li>• Number and degree of integration of NMHSs into national emergency and disaster management systems</li> </ul>	<p><b>Priority Area</b></p> <ul style="list-style-type: none"> <li>• Members</li> <li>• World Weather Watch Programme</li> <li>• Tropical Cyclone Programme</li> <li>• Disaster Risk Reduction Programme</li> <li>• Tropical Cyclone Committee; and SWFDDP</li> </ul>
<b>RKO 2.2.1:</b> Flood warnings are improved	<ul style="list-style-type: none"> <li>• Level of accuracy and timeliness of flood warnings</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• Hydrology and Water Resources Programme</li> <li>• WG Hydrological Services</li> </ul>

**Expected Result 3 (ER 3):**

**Enhanced capabilities of Members to produce better weather, climate, water and related environmental information, prediction and warnings to support in particular climate impact and adaptation strategies**

Key Outcomes	Key Performance Indicators	Contributing Programmes
<b>KO 3.1: Improved Long-range forecasts and long-term projections</b>	<ul style="list-style-type: none"> <li>• Number of standardized products (e.g., monthly and seasonal predictions, climate watches) provided by Members</li> <li>• Number of Members providing standardized products</li> </ul>	World Weather Watch Programme  World Climate Programme
<b>KO 3.2: Climate information and prediction products for climate adaptation and risk management are improved</b>	<ul style="list-style-type: none"> <li>• Number of operational Regional Climate Centres providing inputs for the National Climate Centres</li> <li>• Number of Members with formal National Climate Centres, accessing global and regional products, using the guidance materials and transmitting climate products for national needs</li> <li>• Number of Members interacting with users while providing climate services, through formal mechanisms including National Climate Outlook Forums, in support of adaptation and climate risk management in key socio-economic sectors</li> <li>• Members using best practices for climate adaptation and risk management in key socio-economic sectors</li> </ul>	World Climate Programme
<b>KO 3.3: Hydrological information and products, including water resource assessments, are improved</b>	<ul style="list-style-type: none"> <li>• Number of Members having established a Quality Management Frameworks for Hydrology using current guidance materials for hydrology and water resource management</li> <li>• Number of regional hydrological data bases developed in transboundary river basins</li> </ul>	Hydrology and Water Resources Programme
<b>KO 3.4: Drought information and prediction for risk management is improved</b>	<ul style="list-style-type: none"> <li>• NMHSs and Regional Centres issuing drought information and prediction</li> <li>• Satisfaction in drought information and predictions issued by NMHSs and Regional Centres</li> </ul>	Applications of Meteorology Programme  World Climate Programme

<b>REGIONAL KEY OUTCOMES (RKOs)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<b>RKO 3.1.1:</b> Climate information and prediction services are improved	<ul style="list-style-type: none"> <li>• Level of accuracy of monthly/seasonal predictions</li> <li>• Level of application of, and satisfaction with, climate services</li> <li>• Level of implementation of regional aspects of GFCS including RCCs</li> <li>• Level of contribution of RA V Members to the WMO Annual Climate Summary</li> </ul>	<p><i>Priority Area</i></p> <ul style="list-style-type: none"> <li>• Members</li> <li>• World Climate Programme</li> <li>• WG Climate Services</li> </ul>
<b>RKO 3.3.1:</b> Hydrological information is improved	<ul style="list-style-type: none"> <li>• Accuracy of information, and coverage, and density, of hydrological observations</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• Hydrology and Water Resources Programme</li> <li>• WG Hydrological Services</li> </ul>

**Expected Result 4 (ER 4):**

**Enhanced capabilities of Members to access, develop, implement and use integrated and interoperable surface-based and space-based systems for weather, climate and hydrological observations, as well as related environmental observations, based on world standards set by WMO**

Key Outcomes	Key Performance Indicators	Contributing Programmes
<p><b>KO 4.1: WMO Integrated Global Observing System</b> is implemented</p>	<ul style="list-style-type: none"> <li>• Completion of WIGOS milestones according to WIGOS implementation plan</li> <li>• Increased availability of observations for users</li> </ul>	<p>World Weather Watch Programme</p> <p>World Climate Programme-Global Climate Observing System (WCP-GCOS)</p> <p>Atmospheric Research and Environment Programme</p> <p>WMO Space Programme</p> <p>Hydrology and Water Resources Programme</p> <p>Applications of Meteorology Programme</p> <p>WMO Space Programme</p>
<p><b>KO 4.2: WMO Information System</b> is developed and implemented</p>	<ul style="list-style-type: none"> <li>• Implementation of WIS by NMHSs with continuous access to observations and products to meet the needs of the NMHSs and national users and to enhance capabilities of Members to access data and products</li> <li>• Enhanced capabilities for data processing and management</li> </ul>	<p>World Weather Watch Programme</p>
<p><b>KO 4.3: Accessible climate observations and climate data archives</b> at the NMHSs and global data centres are increased</p>	<ul style="list-style-type: none"> <li>• Progress in implementing the Global Climate Observing System</li> <li>• Increase in projects to rescue and digitize climate data, to improve the use and exchange of high quality climate data sets and to assess the state of the global climate system</li> <li>• Number of Members developing and implementing modern climate monitoring systems, including Climate Watch Systems</li> </ul>	<p>World Climate Programme</p>

<b>REGIONAL KEY OUTCOMES (RKO)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<b>RKO 4.1.1:</b> WIGOS is implemented	<ul style="list-style-type: none"> <li>• Traceability of observations</li> <li>• Availability of station metadata</li> <li>• Regional WIGOS Demonstration Project initiated</li> <li>• Regional priorities for observing system development documented</li> </ul>	<p><b>Priority Area</b></p> <ul style="list-style-type: none"> <li>• Members</li> <li>• World Weather Watch Programme</li> <li>• WG Infrastructure</li> </ul>
<b>RKO 4.1.2:</b> Observing networks are implemented	<ul style="list-style-type: none"> <li>• Level of implementation of RBSN and RBCN including GSN and GUAN</li> <li>• Level of implementation of hydrological networks</li> <li>• Level of implementation of marine observations</li> <li>• Level of implementation of GAW</li> <li>• Progress against GOOS, GTOS and GCOS Regional Action Plans</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• World Weather Watch Programme</li> <li>• World Climate Programme</li> <li>• Hydrology and Water Resources Programme</li> <li>• Marine Meteorology and Oceanography Programme</li> <li>• Atmospheric Research and Environment Programme</li> <li>• WG Infrastructure</li> <li>• WG Hydrological Services</li> </ul>
<b>RKO 4.2.1:</b> WIS is implemented	<ul style="list-style-type: none"> <li>• Extent of participation in international exchange through the WIS / GTS</li> <li>• Existence of, and progress against, a regional implementation strategy for WIS / DAR services</li> <li>• Extent to which communication needs of members are met</li> <li>• Level of use of NWP products accessed via WIS</li> </ul>	<p><b>Priority Area</b></p> <ul style="list-style-type: none"> <li>• Members</li> <li>• World Weather Watch Programme</li> <li>• WG Infrastructure</li> </ul>
<b>RKO 4.3.1:</b> Historical climatological data are preserved	<ul style="list-style-type: none"> <li>• Level of availability of long period, rescued, digitized climate records with appropriate metadata</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• World Climate Programme</li> <li>• WG Climate Services</li> </ul>

**Expected Result 5 (ER 5):**

**Enhanced capabilities of Members to contribute to and draw benefits from the global research capacity for weather, climate, water and environmental science and technology development**

<b>Key Outcomes</b>	<b>Key Performance Indicators</b>	<b>Contributing Programmes</b>
<b>KO 5.1:</b> Research in <b>climate prediction/projection to improve the skills of seasonal, decadal, and longer time scales</b> is enhanced	<ul style="list-style-type: none"> <li>• Increase in projects to advance climate research</li> <li>• NMHS in developing and least developed countries contributing to relevant regional and international research initiatives</li> <li>• Measures of skill and value of climate predictions and projections to national and regional climate services</li> </ul>	World Climate Research Programme
<b>KO 5-2:</b> Research in the <b>prediction of high-impact weather on time scales of hours to seasons</b> is enhanced	<ul style="list-style-type: none"> <li>• Increased research on operations products and services</li> <li>• NMHS in developing and least developed countries contributing to relevant regional and international research initiatives. Improvements in the number of internationally coordinated weather research initiatives and/or forecast demonstration projects completed</li> </ul>	Atmospheric Research and Environment Programme
<b>KO 5-3: Atmospheric chemistry observations and assessment</b> meet needs of environmental conventions and policy assessments	<ul style="list-style-type: none"> <li>• Regular bulletins on global atmospheric chemistry are provided to environmental conventions and policy assessments</li> <li>• Number of technical reports, measurement guidelines and scientific analyses linking atmospheric chemistry to weather, climate, water and the environment</li> </ul>	Atmospheric Research and Environment Programme
<b>KO 5-4: Seamless forecasts of weather, climate, water and the environment from months to seasons</b> are developed	<ul style="list-style-type: none"> <li>• Increase in the implementation of WMO Global Integrated Forecast System by NMHSs</li> <li>• Improvement in skill of monthly to seasonal forecasting systems</li> </ul>	Atmospheric Research and Environment Programme World Climate Research Programme
<b>KO 5.5:</b> <b>Predictions/projections of El Niño/Southern Oscillation (ENSO) and monsoons</b> are improved	<ul style="list-style-type: none"> <li>• Improvements in the skills of ENSO and monsoon forecasts</li> <li>• Satisfaction in the predictions/projections of ENSO and monsoons</li> </ul>	World Climate Programme World Climate Research Programme

<b>REGIONAL KEY OUTCOMES (RKO)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<b>RKO 5.4.1:</b> THORPEX GIFS benefits warning services	<ul style="list-style-type: none"> <li>• THORPEX GIFS products trialled as part of SWFDDP</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• World Weather Research Programme/ THORPEX</li> <li>• Tropical Cyclone Committee (SWFDDP)</li> </ul>
<b>RKO 5.5.1:</b> ENSO, IOD, monsoons and MJO predictions are improved	<ul style="list-style-type: none"> <li>• Level of understanding of these phenomena</li> <li>• Level of predictive skill for these phenomena</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• Atmospheric Research and Environment Programme</li> <li>• World Climate Research Programme</li> <li>• WG Climate Services</li> </ul>

**Expected Result 6 (ER 6):****Enhanced capabilities of NMHSs, in particular in developing and least developed countries, to fulfil their mandates**

Key Outcomes	Key Performance Indicators	Contributing Programmes
<b>KO 6.1: NMHSs and Regional Centres</b> are improved, particularly in developing and least developed countries	<ul style="list-style-type: none"> <li>• Number of NMHSs and WMO Regional Centres with defined roles in national and regional socioeconomic development activities, in cooperation with international and regional development agencies</li> <li>• Number of NMHSs with programmes and networks for collaborating on service delivery at regional levels</li> </ul>	Technical Cooperation Programme Regional Programme
<b>KO 6.2: Infrastructure and operational facilities of NMHSs and Regional Centres</b> are improved, particularly in developing and least developed countries	<ul style="list-style-type: none"> <li>• Number of NMHSs with improvement in infrastructure and operational facilities to address identified deficiencies</li> <li>• Number of NMHSs with modernized capacities to develop and disseminate products to their customers</li> </ul>	World Weather Watch Programme, World Climate Programme Applications of Meteorology Programme Hydrology and Water Resources Programme Technical Cooperation Programme Disaster Risk Reduction Programme WMO Space Programme
<b>KO 6.3: Education and Training Development activities at national and regional levels</b> are improved, especially in developing and least developed countries	<ul style="list-style-type: none"> <li>• The number of RTCs providing education and training support for GFCS related activities</li> <li>• The degree to which Members are getting value for money from the WMO Fellowship Programme</li> <li>• The degree to which the RTCs support the regional training demands in particular for students from developing and least developed countries</li> </ul>	Education and Training Programme (ETRP) Technical Cooperation Programme Least Developed Countries Programme
<b>KO 6.4: Capacities of NMHSs</b> are enhanced through cooperation and partnerships with other national and regional organizations	<ul style="list-style-type: none"> <li>• Development projects and activities funded through voluntary and extrabudgetary resources</li> </ul>	Technical Cooperation Programme Least Developed Countries Programme



<b>REGIONAL KEY OUTCOMES (RKOs)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<b>RKO 6.1.1:</b> Regional and national meteorological services are more effective	<ul style="list-style-type: none"> <li>• Extent of implementation of recommendations of SPREP review on regional meteorological services</li> <li>• Availability of, and progress against, national plans for improved products and services</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• Regional Programme</li> <li>• SPREP (in partnership with WMO)</li> </ul>
<b>RKO 6.3.1:</b> Education and Training Development activities at national and regional levels are improved	<ul style="list-style-type: none"> <li>• Capacity for providing, and satisfaction with, regional training services</li> <li>• Capacity for providing training at national level in accordance with WMO No. 258</li> <li>• Level of compliance of meteorological and hydrological staff with WMO No. 258</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• Regional Training Centres</li> <li>• Education and Training Programme</li> <li>• WG Weather Services</li> </ul>

**Expected Result 7 (ER 7):**

**New and strengthened partnerships and cooperation activities to improve NMHSs' performance in delivering services and to increase the value of the contributions of WMO within the United Nations system, relevant international conventions and national strategies**

Key Outcomes	Key Performance Indicators	Contributing Programmes
<p><b>KO 7.1: WMO leadership and contribution in relevant UN system and other international partners' initiatives and programmes</b> is improved</p>	<ul style="list-style-type: none"> <li>• Reports of WMO and its co-sponsored programmes to international conventions, particularly the UNFCCC, UNCCD, and UNCBD, and enhanced interaction with their SBSTAs and COP processes</li> <li>• UN and other international organizations reports quoting WMO and co-sponsored reports, assessments, bulletins and other authoritative outputs</li> <li>• Active strategic partnerships with UN and other international organizations supporting priority activities</li> </ul>	<p>World Weather Watch Programme</p> <p>World Climate Programme</p> <p>Hydrology and Water Resources Programme</p> <p>Executive Management</p> <p>Information and Public Affairs Programme</p> <p>Disaster Risk Reduction Programme</p> <p>Applications of Meteorology Programme</p> <p>Intergovernmental Panel on Climate Change</p> <p>Hydrology and Water Resources Programme</p>
<p><b>KO 7.2: Participation of NMHSs</b> in relevant national and regional partnerships are enhanced</p>	<ul style="list-style-type: none"> <li>• Number of NMHSs having active partnerships at national and regional levels</li> <li>• Financial support mobilized for development projects, e.g., from governments, donor partners and regional donors</li> </ul>	<p>Regional Programme</p>
<p><b>KO 7.3: Public, decision-makers and other stakeholders</b> are increasingly aware of key WMO and NMHSs issues, activities and priorities though enhanced communication</p>	<ul style="list-style-type: none"> <li>• Uptake of WMO reports, bulletins and other provisions; number of website visitors and ranking of WMO Website</li> <li>• Percentage of target audiences indicating utilization of WMO materials and increased awareness</li> <li>• NMHSs trained in communication</li> </ul>	<p>Information and Public Affairs Programme</p>

<b>REGIONAL KEY OUTCOMES (RKO)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<b>RKO 7.1.1:</b> Collaborations with other agencies add value	<ul style="list-style-type: none"> <li>• Updated MoU between WMO and SPREP</li> <li>• Number of international agencies taking part in WMO-coordinated projects that benefit Members</li> </ul>	<ul style="list-style-type: none"> <li>• Regional Programme</li> <li>• Technical Cooperation Programme</li> </ul>
<b>RKO 7.1.2:</b> GEOSS involvement is increased	<ul style="list-style-type: none"> <li>• Number of RA-V Members who are also Members of GEO</li> </ul>	<ul style="list-style-type: none"> <li>• Members</li> <li>• Regional Programme</li> </ul>
<b>RKO 7.2.1:</b> Donor funding is coordinated and effective	<ul style="list-style-type: none"> <li>• Level of funding support for regional programmes and activities</li> </ul>	<ul style="list-style-type: none"> <li>• Regional Programme</li> <li>• Technical Cooperation Programme</li> </ul>

- ER 8: An effective and efficient Organization

Key Outcomes	Key Performance Indicators	Contributing Programmes
<b>KO 8.1: Effective and efficient WMO Congress and Executive Council</b>	<ul style="list-style-type: none"> <li>Member satisfaction with documentation for Cg, EC and its working groups</li> <li>Member satisfaction with supporting services for Cg and EC (interpretation, conferences services and facilities)</li> <li>Reduction in the cost of sessions</li> </ul>	Policy Making Organs (PMO) Programme Support Services (PSS) Linguistic Services and Publishing (LSP) Conferences, Contracts and Facilities Management (CCFM)
<b>KO 8.2: Effective and efficient WMO Secretariat</b>	<ul style="list-style-type: none"> <li>Timely and cost effective completion of management objectives, and oversight recommendations for improved business effectiveness, e.g. from External Auditor and EC subsidiary bodies</li> <li>Unqualified audits and effective internal controls</li> <li>Cost-effective fulfilment of requirements for linguistic and publishing services</li> <li>Cost-effective fulfilment of requirements for support services including procurement, travel, building management and mailing</li> </ul>	Executive Management Overall Coordination
<b>KO 8.3: Effective and efficient constituent bodies (RAs and TCs)</b>	<ul style="list-style-type: none"> <li>Member satisfaction with constituent body documentation</li> <li>Member satisfaction with constituent body supporting services (interpretation, conferences services and facilities)</li> <li>Reduction in the cost of constituent body sessions</li> </ul>	Executive Management Programme Support Services

<b>REGIONAL KEY OUTCOMES (RKO)</b>	<b>Regional Key Performance Indicators</b>	<b>Primary Activities</b>
<p><b>RKO 8.3.1:</b> RA V subsidiary bodies are well organized and effective</p>	<ul style="list-style-type: none"> <li>• Completion of the 2012-2015 Strategic Operating Plan</li> <li>• Establishment of the Working Groups and work plan approved by Management Group.</li> <li>• Availability to Members of regular, useful reports on progress by RA V Subsidiary Bodies</li> <li>• Level of awareness of and satisfaction with work carried out by RA V Subsidiary Bodies</li> <li>• Level of explicit reference to RA V activities and requirements in the work plans of WMO working groups, Scientific and Technical Programmes, and Technical Commissions</li> </ul>	<ul style="list-style-type: none"> <li>• RA V Management Group</li> <li>• All other RA V Subsidiary Bodies</li> <li>• Regional Programme</li> </ul>

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## LIST OF ACTIONS REQUIRED

	<i>Lead</i>	<i>Target Date</i>
<b>(1) RA V Strategic Operating Plan (SOP) 2012-2015</b>		
1 Send comments on the draft SOP to Neil Gordon	MG and Leads of WGs	31-Oct-2010
2 Send finalized SOP to the president	Neil Gordon	30-Nov-2010
3 Approval of SOP	President	7-Dec-2010
<b>(2) Survey Questionnaire</b>		
1 Review of the draft questions	Leads of WGs	15-Nov-2010
2 Proposals from Leads for questions	Leads of WGs	15-Nov-2010
3 Review by MG and finalization of the questionnaire	MG	30-Nov-2010
4 WMO Circular letter to PRs	RAP for the president	20-Dec-2010
<b>(3) Finalization of Work Structure</b>		
1 ToR of Task Teams and Working Groups	Leads of WGs	10-Oct-2010
2 Submission of tentative WG Work Plan 2010-2014	Leads of WGs	15-Oct-2010
3 Another round of nomination process	RAP for the president	15-Oct-2010
4 Review of ToR and Work Plan	MG	30-Oct-2010
5 Complete list of nomination sent to WGs Leads	RAP for the president	31-Oct-2010
6 Recommendation for experts sent to the president	Leads of WGs	7-Nov-2010
7 Approval by the president	President	14-Nov-2010
8 Submission of final WG work plan	Leads of WGs	30-Nov-2010
9 Approval of final work plan	President	7-Dec-2010