

WORLD METEOROLOGICAL ORGANIZATION

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VOLUNTARY COOPERATION PROGRAMME

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**OVERVIEW CURRENT AND EMERGING MAJOR PARTNERSHIPS / REGIONAL
HYDROMET DEVELOPMENT PROJECTS**

(Submitted by the Secretary-General)

Summary and Purpose of Document

This document provides information on initiation and progress of Regional Development Programmes facilitated by the Development and Regional Activities Department Resource Mobilization Office and Regional Offices

Strategic Partnerships and Major Development Projects

Strategic Partnerships

1. The Resource Mobilization Office is focusing strongly on establishment of strategic partnerships with key organizations such as World Bank (WB), various Directorates of the European Commission, UN System Partners in particular UNISDR, FAO, WFP, and UNDP, Rockefeller Foundation and Regional Economic Groupings and also with WMO Members for delivery of regional scale development programmes and projects.
2. Significant work is being undertaken in respect of regional programmes for capacity enhancement of NMHS in West Africa, South Eastern Europe, Central Asia, Pacific and the Americas. This capacity enhancement is in cooperation with WMO Members and with the major partners mentioned above, noting that more than US\$40 million was directed to development programmes during the period from 2007 to 2010 through various modalities and partnerships
3. The regional and partnership oriented approach to development assistance for improvement of weather, water and climate services will continue as it has proven to be an effective approach encouraging other WMO members to consider supporting such regional development projects through the WMO and or bi-lateral or other mechanisms.
4. A significant achievement in 2010, was the accreditation of WMO as Multilateral Implementing Entity by the Adaptation Fund, which opens an excellent opportunity for funding projects and programmes in the field of adaptation to climate change in support and with participation of NMHSs.

Summary Major Programmes / Projects Below – Others in Appendix 1

RA I (Africa)

5. The Spanish Programme of Cooperation for West African countries has continued its implementation. The focus of activities is on marine meteorology, agricultural meteorology, health and climate, development financing for countries emerging from conflict or disasters (Sierra Leone, Liberia, Guinea, Guinea Bissau, Togo and Ivory Coast), capacity building in political advocacy and resource mobilization and other activities as agreed between participant countries and the donor. The Programme is managed jointly by the Regional Office for Africa and AEMET.
6. The Korea ODA Agency (KOICA) project¹ commenced in 2009 and has also already resulted in increased support to IGAD Region and ICPAC with the recent signing at the African Ministerial Conference of an MOU between ICPAC and KMA for an ongoing programme of expertise and technology transfer to develop ICPAC further as a Regional Climate Centre. This MOU was signed between ICPAC, KMA and the PRs of IGAD countries (Uganda, Tanzania, Eritrea and Ethiopia). Phase II of this project is now under discussion with KOICA.
7. The World Bank is supporting a 3 year programme for Lake Victoria Region (Uganda, Kenya and Tanzania) “Weather and Climate Service Delivery in the Lake Victoria Region.

¹ “Regional Climate Framework in Eastern Africa to Support Adaptation to Climate Change” and “Weather and Climate Impact on Community Health and Public Health Services”.

The focus is on agricultural meteorology and improved early warnings for maritime safety (fishers) as the fatality rate on the lake amongst fishing community is disastrously high (6-8,000 per year). This is predominantly seed funding for the SWFDP for Lake Victoria. This project links to plans for development of a Maritime Communications Centre and Search and Research Service on the Lake.

8. Regarding the above and more generally WMO is working closely with Ericsson Communications and MTN to develop applications for weather and climate information to be carried over mobile networks targeting farmers and fishers. This is being piloted in Uganda as a demonstration of how innovations in communications technology can in reality make weather information readily available to everyone, even in remote communities. Tanzania will also likely participate. The Govt of Norway recently approved a 500,000 USD Grant for this activity.
9. The Rockefeller Foundation is supporting a programme (350,000) to improve integration of weather information in agricultural extension services in Ethiopia. This is their first engagement with WMO but will hopefully be the commencement of a strong partnership as RF has very active programme in East Africa in support of agricultural development and Risk Index Insurance for farmers.
10. An Agreement was signed between Government of Greece and WMO in New York at the UNGA in support of a 2M€ package to support Climate Change Adaptation and Improved Climate Services in Sub-Saharan Africa. The first million has been transferred to the WMO Secretariat and ongoing arrangements are being made to start the implementation of this regional project with the support from the CLW Department.
11. AECID (Spain) is supporting the SDS and GAW projects in Northern Africa and indicated interest in supporting projects on disaster risk management and climate change in the Americas and West Africa regions. AEMET, Spain is actively involved in discussions with AECID are underway seeking support to projects of NMHSs of countries in West Africa and the Americas region.
12. US NWS continued its capacity building programme through WMO covering a range of existing and new activities; Training Desks; Fellowships; support to WIS; Socio-economic benefit areas; Climate Data Recovery programmes etc.

RA III and IV (Americas)

13. The Spanish support to the Programme of Cooperation for the NMHSs of Ibero American countries has continued. In the last meeting of Directors held in Chile in 2010 the programme was reviewed and an Action Plan for 2011-2013 was approved with an allocation of about 2.0 million US\$. The action plan includes four strategic lines: Institutional strengthening and resource mobilization for NMHS, Development of Climate Services, Education and training, and Development of virtual centres for prevention and of extreme events.
14. The National Meteorological Service (NMS) of Mexico began in 2010 the execution of a Strategic Plan aimed at modernizing the NMS in a 10-year implementation plan based on an assessment made with the assistance of WMO in 2009. Furthermore, in order to take advantage of WMO programmes added value to the implementation of the Strategic Plan, the NMS of Mexico and WMO signed an agreement of cooperation to strengthen the support from WMO to this project. The Plan includes four strategic lines of action: 1) *institutional development*; 2) *strengthening of meteorological observing networks*; 3) *development of products and meteorological services*; and 4) *development of infrastructure for climate services*. The Strategic Plan includes an implementation plan with an estimated budget of 100 USD million. The Government of Mexico is supporting the implementation of the Plan recommended by WMO with an initial allocation of 14 USD million in 2010.

15. A new Capacity Building project in support to NMHSs of the Caribbean in partnership with the Association of Caribbean States is ongoing with support of Finland.

RA VI (South-eastern Europe)

16. The 1st Phase of the joint initiative with World Bank / UNISDR / WMO (with support of Finland) for S. Eastern Europe was completed in 2008 with the publication of a series of assessment reports on: Disaster Risk in SEE, Risk Insurance Markets, and Status and Investment Plan of Hydrometeorological Services (www.wmo.ch/pages/prog/rp/RegionalActivitiesRAVI.html) Based on these assessments several countries directed WB Loans to investment in HydroMet (Albania, Croatia, Montenegro, Moldova, and Macedonia). WMO-RMO Office successfully submitted a proposal to European Commission DG Enlargement. This project is implemented by Office for Europe in partnership with UNDP (each responsible for 1M€ of funds). The project was completed in April 2011. RMO and ROE are now working closely with DGE regarding funding for Phase II of this project.

RA II and V (Asia and SW Pacific)

17. Similarly like in SEE, a Phase 1 Assessment was completed for Central Asia and Caucuses Region funded by the WB Global Facility for DRR. WB and Finland Foreign Affairs has already committed to some investments in the region pending these assessments. UNDP has initiated a 6M Climate Risk Management Programme in the Region and WMO will partner on this. WMO is working with the countries on a proposal to the Adaptation Fund.
18. Along the above lines a similar partnership programme and assessment activity is underway for South East Asia WB SE Asia Office. This Assessment and Investment Plan should be available by end of 2011.
19. Finland continues to support NMHS Development Activities. The Pacific Capacity Building is being implemented with WMO and SPREP as partners.

In the Pipeline

20. Development projects for the NMHSs of Panama, Costa Rica and El Salvador prepared under the Programme of Cooperation for Iberoamerican NMHSs were submitted for consideration to national and international funding agencies based in these countries. Panama would support its own project and El Salvador. AECID and NOAA have considered some support to the project in Costa Rica. Development projects were also prepared for the NMHS of Colombia, Dominican Republic, Honduras, Nicaragua, Ecuador, Paraguay and Uruguay. WMO/AEMET missions were organized to these countries in 2008, 2009 and 2010 seeking support from international agencies and national governments for the implementation of these projects. The Spanish International Development Agency for Cooperation (AECID) has been contacted and has offered to consider support to some projects, while the Inter-American Development Bank (IDB) and the hydroelectric Centrals of Itaipú and Yacyretá offered support to the project in Paraguay.
21. A WMO team carried out the assessment mission to Haiti (April 2010) and developed a project proposal to address medium-term capacity development needs with an estimated cost of USD \$ 2.7 million. The proposal has been submitted for consideration to potential partners (Canada and Finland) and through UNDP to the Haiti Reconstruction Fund. Assistance from WMO Members has provided Haiti with the means to provide forecasts and warnings for the 2010 hurricane season and similar is planned for 2011 season. Contributions amounted a total of USD \$ 700,000.

Appendix 1

**REGIONAL DEVELOPMENT PROJECTS
(2007-2010)**

Development Projects Funded					
Activity/Project	Beneficiary Country/Region	Amount	Equivalent in CHF	Funding Agency	Remarks
1. <i>Pilot Project for the Implementation of an Early Warning System to contributes to disaster risk reduction in Bolivia</i>	Bolivia	415,000 €	560,000	AECID	Funds secured by RMO transferred to to SENAMHI and Min. of Planning provided by AECID. Administered by UNDP Bolivia.
2. <i>Regional Cooperation in South Eastern Europe for meteorological, hydrological and climate data management and exchange to support Disaster Risk Reduction</i>	Croatia, Turkey FYR Macedonia, Albania, Bosnia and Herzegovina, Montenegro, Serbia	2,000,000€	2,700,000	EU-COM DG-Enlargement	2M € committed. Two components at 1M € each. 1M€ to be implemented by WMO and 1M€ by UNDP.
3. <i>Rehabilitation of the Iraqi Meteorological Organization</i>	Iraq	5,285,000€	7,135,000	Government of Italy	5M€ Soft Loan to Iraqi government. 285,000€ to WMO for Tech Support
4. <i>Global Atmospheric Watch in the Magreb-Sahara Region</i>	Magreb-Sahara Region	340,000 €	460,000	AECID	Funds provided by AECID to WMO. Project under implementation by ARE
5. <i>Sand and dust Storm (SDS) Early Warning System in the Magreb Region</i>	Magreb Region	184,000 €	248,000	AECID	Funds provided by AECID to WMO. Project under implementation by ARE
6. <i>Food Security project in Africa- Flood and Drought</i>	Mali	300,000 €	405,000	Government of Italy	Funds transferred to WMO. Project under implementation by AGM
7. <i>Review of Delivery of Weather and Climate Services and Related Warning Services in the Area Served by the Fiji Meteorological Service</i>	Pacific Region	80,000 AU	80,000	AUSAID	
8. <i>Understanding the Findings of the IPCC Fourth Assessment Report "Climate Change 2007" – Integrating Climate Change Adaptation and Mitigation in Development Planning</i>	Africa	1,000,000€	1,350,000	EU-COM DG Environment	Implemented by IPCC-WMO
10. <i>Operational Observing and Forecasting System in the Caspian Sea for the Protection of Infrastructures and the Environment- Preparatory Phase</i>	Caspian Sea	45,000 €	60,750	NATO	In association with Ente per le Nuove tecnologie, l'Energia e l'Ambiente – ENEA. Dpt ACS, Spezia Italy
11. <i>Regional Climate Centres and Climate and Health</i>	East Africa	600,000 USD	600,000	KOICA Korea Int.	Projects under implementation. Second phase is being negotiated.

Appendix 1

Development Projects Funded					
Activity/Project	Beneficiary Country/Region	Amount	Equivalent in CHF	Funding Agency	Remarks
12. <i>Assessment of NMHS Capacity in Central Asia and Caucuses meteorological, hydrological and climate data management and exchange to support Disaster Risk Reduction</i>	Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, Armenia, Azerbaijan, and Georgia	150,00 €	202,500	GFDRR / UNISDR / Finland	
13. <i>Development of Hydrometeorological Services in Pacific Islands Region</i>	Pacific Islands	500,000 €	675,000	Gov. Finland	FMI/ SPREP/WMO
14. <i>Strategic Plan for development of the National Meteorological Service of Mexico</i>	Mexico	14,000,000 USD	14,000,000	Gov. of Mexico	A Cooperation Agreement was signed between Mexico and WMO to assist the NMS in the implementation of the ten year Strategic Plan
15. <i>Development of the early warning system for disaster risk reduction of hydrometeorological events in El Salvador</i>	El Salvador	4,300,000 USD	4,300,000	Gov. of El Salvador	Project under implementation by SNET using national funds
16. <i>Strengthening hydrometeorological operations and services in the Caribbean SIDS (SHOCS)</i>	Caribbean NMHSs	500,000 Euros	675,000	Gov. of Finland	FMI/ACS/WMO
17. <i>Institutional development of the NMS for improvement of the meteorological services and information in support of socioeconomic sectors of Uruguay</i>	Uruguay	500,000 USD	500,000	Gov. of Uruguay	Funds provided by Gov. of Uruguay to NMS to implement part of project. Rest being sought with AECID.
18. <i>Regional Framework for Weather and Climate Services for food aid, food security, maritime transport safety contributing to disaster risk reduction In Lake Victoria region</i>	Uganda, Tanzania, Kenya	750,000 USD	750,000	World Bank	
19. <i>Development of Meteorological and Hydrological services in Haiti. Short term needs.</i>	Haiti	700,000 USD	700,000	Various WMO Members	Members that have supported Haiti include: Canada, France, Japan, USA and Dominican Republic
20. <i>Climate Change Adaptation and Improved Climate Services in Sub-Saharan Africa</i>	Sudan, Niger, Burkina Faso, Uganda, Mali	1,000,000 €	1,350,000	Gov. of Greece	
Total			38,197,430		

Appendix 1

Projects in Pipeline

ACTIVITY/PROJECT	Beneficiary country/region	Estimated budget	Potential funding agency	Remarks
19. <i>Early warning system for the Andean Region</i>	Bolivia, Colombia, Ecuador, Peru	2,000,000 €	Gov. of Finland	Project under preparation with technical assistance from WMO. After approval project will be implemented by the Andean Community and the NMHSs of participant countries
20. <i>Establishment of a Hydro meteorological Early Warning System in Dominican Republic</i>	Dominican Republic	3,800,000 USD	AECID and national funds	Project being implemented partially with national funds. AECID support is being sought.
21. <i>Development of Meteorological and Hydrological Services in Haiti in support of Social and Economic Sectors. Project proposal for Medium Term Needs</i>	Haiti	2,700,000 USD	Gov. of Finland CIDA, Canada AECID	A WMO mission assessed the short and medium term needs after the earthquake in Haiti and formulated a project proposal for development of the NMHS of Haiti..
22. <i>Improvement of the early warning system for disaster risk reduction and climate change impact in Costa Rica</i>	Costa Rica	3,500,000 USD	AECID, NOAA	Project presented to national authorities and funding agencies in Costa Rica. Under discussion.
23. <i>Development of INETER in support to disaster risk reduction and impacts of climate change in Nicaragua</i>	Nicaragua	2,300,000 USD	National funds, World Bank, IDB	Project presented to Nicaragua NMS and government and funding and development agencies in Nov. 2010
24. <i>Development of the NMS in support to the integrated disaster risk reduction and climate change in Honduras</i>	Honduras	2,000,000 USD	CIDA, IDB	Project to be presented to the NMS and new government (pending).
25. <i>Development Project for enhancing the Capacity Building of SENAMHI contributing to Disaster Risk Reduction in Bolivia</i>	Bolivia	500,000 USD	World Bank, AECID	Negotiations with WB in Bolivia. Funds in process of approval.
26. <i>Strengthening and Modernization of the NMHS of Panama</i>	Panama	3,200,000 USD	Gov. of Panama	Project will be funded mostly by national funds.
27. <i>Institutional development of the NMS for improvement of the meteorological services and information in support of socioeconomic sectors of Uruguay</i>	Uruguay	2,000,000 USD	AECID Gov. of Uruguay	Government of Uruguay approved an initial allocation of 500,000 USD for the project. Rest being sought with AECID, Spain.
28. <i>Institutional strengthening of the NMHS to support the socioeconomic development of Paraguay</i>	Paraguay	3,000,000 USD	IDB, National funds from Energy sector	Project submitted to Ministry of Planning. IDB offered support to some project components. Hydroelectric Itaipu and Yacireta have also offered support.
29. <i>Early warning system for Maritime and Coastal Areas West Africa</i>	Gambia, Senegal, Mauritania, Cape verde	10,000,000	Adaptation Fund	
30. <i>Climate Change Adaptation in Water and Agricultural sectors in Central Asia</i>	Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan	12,000,000	Adaptation Fund	

Appendix 1

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