



MANAGEMENT COMMITTEE OF THE INTERGOVERNMENTAL BOARD ON CLIMATE SERVICES

24 - 25 October 2018, FAO, Rome,

AGENDA 3.2 Report of the Chair of PAC

PAC Meetings Since October 2017

- **Eighth Session** (5 - 6 April 2018, NRC, Oslo, Norway): **20** representatives (12 partners), 2 observer organizations.
- **Ninth Session** (22 - 23 October 2018, FAO, Rome): **22** representatives (14 partners), 1 observer organization.

Partner Advisory Committee (PAC)

CURRENT MEMBERS (22):

- ECMWF, EC, EUMETSAT, FAO, GWP, GEO, HELVETAS, IFRC, IRENA, IUGG, NRC, SEI, UNDP, UNEP, UNESCO, UNITAR, UNISDR, UNOPS, WB, WBCSD, WFP and WMO

Three new members: GEO, HELVETAS and SEI

PAC priority activities 2018

- Status of implementation of National Frameworks for Climate Services
- Institutional resources available from PAC members
- White Paper clarifying the concept of UIP
- Country-level mapping of climate service initiatives coordination
- Mapping of events where coordination can be pursued
- Brochure on key successes and challenges of GFCS
- Linking GFCS with major policy agendas

Technical Session on advances in climate services (22 – 23 October 2018)

- Good practices for Climate Services User Engagement
- Progress with decadal predictions
- Opportunities for climate services in agriculture and food security
- Review of the Regional Climate Outlook Forum (RCOF)
- Latest advances on operational Flood Forecasting and Early Warnings - WMO Commission for Hydrology perspective
- Climate Rationale Implementation
- Progress with Sub-seasonal to Seasonal Predictions (S2S)
- Climate Applications and Priorities for Health
- Copernicus Climate Change Services
- Climate Services in the US and Caribbean

PAC's contribution to the Task force on Governance, Management and Finance

- PAC members contributed to the work of the Task Force on the Governance, Management and Finance of the GFCS
 - Governance Subgroup – World Bank and EC
 - Management Subgroup – NRC, FAO and UNDP
- Detailed review of the draft and consolidation of PAC's views presented during the PAC8 & PAC9

Priority activities contributing to the GFCS implementation (WMO)

- GFCS Office's input to WMO interdepartmental development of 'climate rationale' - basis for WMO-GCF collaboration;
- WMO-GCF MoU - GCF investment in hydromet and climate information and services to benefit from WMO expertise;
- WMO-UNFCCC cooperation agreement - strategic collaboration in mitigation, adaptation, awareness-raising;
- Continued regional and national climate outlook forums;
- Contribution to implementing CREWS (Climate Risk & Early Warning Systems Initiative);
- Facilitated the establishment of further national frameworks for climate services, publishing related Step-by-Step Guide.

Priority activities contributing to the GFCS implementation (World Bank)

- Co-hosted with the WMO the 2nd Hydromet Development Partners Conference (March, 2018);
- Announced with WMO commitment to develop an Alliance for Hydromet Development at the World Bank/IMF Annual Meetings (Oct, 2018);
- Signed new framework agreement to strengthen cooperation with WMO, simplifying countries' engagement WMO within the World Bank-financed operations;
- Continued with WMO and HMEI to facilitate public-private-academic collaboration through the Global Weather Enterprise Forum;
- Continued to support PAC priority country Moldova to develop a NFCS (national endorsement workshop planned for Dec, 2018);
- Continued to implement & develop growing global portfolio of hydromet & climate services projects totalling over \$800 million, including projects supported by GCF, IDA, IBRD, PPCR, GFDRR, GEF, CREWS.

Priority activities contributing to the GFCS implementation (GWP)

- Established the Integrated Drought Management HelpDesk with WMO, supported by 34 expert organizations, 80+ requests since the launch in September 2018 www.droughtmanagement.info
 - Slovakia adopted National Drought Action Plan (IDMP CEE support)
- Continued supporting the Integrated Flood Management HelpDesk with WMO and 35 expert organizations www.floodmanagement.info
 - Adaptation Fund board approved WMO, GWP WAF, VBA *Integrated Flood & Drought Mgmt and EW for CC Adaptation* project in Volta basin (USD 7.9M)
- Training with GCF & RDBs on Project Preparation with NDAs, DAEs & water authorities in Africa (22 countries, 46 project ideas) & Asia (18 countries, 30 project ideas)
 - Project Preparation Partnership for Climate Resilient Water Projects launched in Africa and Asia
- Development of Africa Water Investment Programme (AIP) a *High Level Panel on Water* legacy initiative aiming to leverage USD30 bn SDG 6 investments by 2030 and create 5 mn jobs

Priority activities contributing to the GFCS implementation (ECMWF)

- By ECMWF Copernicus Climate Change Service (C3S)
 - Finalisation of a white paper on WMO and Copernicus Climate Change Service cooperation on implementation of the Global Framework for Climate Services (March 2018)
 - Paper can be found [here](#).
 - Highlights of cooperation:
 1. Strengthening the global architecture for climate services information
 2. Stakeholder engagement at country level
 3. Targeted technical assistance and training for capacity development
 - Participation to some RCCs activities (RCOFs)
 - Exploration of extending the C3S Climate Data Store to non C3S datasets relevant to WMO GFCS (e.g. non Euro-CORDEX)
 - Consideration fitness for purpose of the current arrangement between ECMWF and WMO (<https://www.ecmwf.int/sites/default/files/wmo.pdf>)



Priority activities contributing to the GFCS implementation (UNDP)

- Partners with WMO, WB, AfDB, AFD on Africa Hydromet Program to help 20 countries in Africa access GCF funding.
- Works with WMO's Meteorology and Hydrology to design and implement projects in Africa and the Indian Ocean.
- Links UNDP's technical & operational reach and WMO's technical knowledge during the design and implementation phase.
- Co-conducts technical/knowledge-sharing based on evidence-based results from countries to scale up climate information systems, enhance financial viability of systems with new & innovative sources of funding. Joint UNDP-UNEP Global NAP Support Programme partners with WMO.
- Collaborates to strengthen NMHSs to obtain WMO certification, e.g. in Georgia, NEA does not fully comply with WMO Quality Management Framework (QMF). NEA is ready to align hydromet monitoring & forecasting system with WMO QMF.
- Partners to strengthen early warning systems & hydromet services, e.g. Niue.



Priority activities contributing to the GFCS implementation (Stockholm Environment Institute)

- SEI Climate Services Initiative aims to develop new approaches for the improved design, use and interpretation of climate services, particularly those focused on adaptation and disaster resilience.
- 'Climate in Tandem', is an original framework that describes best practices for the co-design of climate services. The 'Tandem' offers scientists, intermediaries, and potential users step-by-step guidance to work together to improve the process and, ultimately, enhance the design of climate services. [Daniels et al. (2018) **Co-designing climate services "in context": a process- and decision-led framework oriented toward users. Climate Change**, in press.]
- SEI is rigorously testing and refining the 'Tandem' framework in: water, energy, coffee production, ecosystems, and infrastructure sectors; at regional and national scales, urban and rural plans; in Southeast Asia, Northern Latin America, Sub-Saharan Africa and Northern Europe.
- Learning will be shared through an [interactive version of the Tandem framework as online guidance](https://www.weADAPT.org). (on www.weADAPT.org platform)



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Priority activities contributing to the GFCS implementation (UNESCO)

- UNESCO project launch: 24 Oct 2018, Paris; Enhancing Climate Services for Improved Water Resources Management in Vulnerable Regions to Climate Change: Case studies from Africa, Latin America and the Caribbean
- Needs assessment for Climate Services for improved Water Resources Management in vulnerable regions to Southern Africa, 30-31 January 2017, Harare, Zimbabwe
- The Latin American and Caribbean Drought Atlas – Launching on on 23rd October, 2018
- HIGH-LEVEL POLITICAL FORUM FOR SUSTAINABLE DEVELOPMENT - Hydrology Towards Sustainable Resilient Societies, 10th July 2018, UN, New York

Priority activities in support of the Architecture for Climate Monitoring from Space (reported on by EUMETSAT)

- Architecture is an essential building block of the GFCOS Observations and Monitoring Pillar
- Vehicle: Joint Working Group Climate between the global coordination bodies for Space Agencies (CEOS and CGMS) and WMO
- The WG has facilitated:
 - the creation of a global **Inventory of Essential Climate Variables** observable from space <http://climatemonitoring.info/ecvinventory>
 - completed a first **gap analysis** of what is missing to systematically create Climate Data Records for these ECVs
 - developed a **coordinated action plan** to address those gaps among space agencies
- The WG is the focal point of space agencies to respond to GCOS requirements and is the single coordinated voice of these agencies towards UNFCCC.

Priority activities contributing to the GFCS implementation (World Health Organization)

- MoU with WMO to enhance **Health, Environment, and Climate** collaboration (May 2018)
- Working with WMO on **joint work plan on Integrated Health Services** (2019-2023)
- Launched **Health, Climate, Environment Coalition** with WMO, UN Environment to enhance coordination and implementation. (May 2018)
- **Climate and Health in SIDS Special Initiative launched** expanding political and technical action in SIDS worldwide.
- **Monitoring Climate Service Access and Use in the Health Sector**, findings published in Lancet Nov 2017 and 2018, as a key Resilience indicator.
- **Climate and Health Country Profiles (with UNFCCC)** expanding to provide evidence and action review for 30 more countries.
- **12 New WHO Adaptation Projects in 2018 will develop climate services and establish national working groups** (Mozambique, Ethiopia, Malawi, Nepal, Cambodia, Lao, Bangladesh, Cambodia, Lao PDR, Nepal, Myanmar, Timor Leste)
- **Two new UIPs under development:** Global Heat Health Information Network (with NOAA and others); Online Climate and Health Science Portal





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ADAPTATION FUND

Priority activities contributing to the GFCS implementation (FAO)

- *Agricultural Climate Resilience Enhancement Initiative (ACREI), New initiative to empower smallholders fight climate change in the Horn of Africa, IGAD, FAO and WMO project supported by Adaptation fund (Inception workshop - September 2018)*
- *Training on climate services application in agriculture for meteorologists in Malawi, Zambia and Mozambique (July 2018)*

Priority activities contributing to the GFCS implementation (Norwegian Refugee Council – NORCAP)

- NORCAP has supported expertise to GFCS activities in Africa since 2015
- NORCAP has supported with more than 10 experts for coordination and implementation of National Framework for Climate Services (NFCS)
- Experts have supported activities in Niger, Chad, Mali, Burkina Faso, Senegal and other parts of West Africa, for example preparation for high level endorsement of National Frameworks for Climate Services, action plans for these, and resource mobilisation
- As part of the NORAD funded GFCS pilot project in Malawi and Tanzania, NORCAP is also supporting with experts to manage the coordination of activities



NORWEGIAN CAPACITY
OPERATED BY NRC

Priority activities contributing to the GFCS implementation (EC)

- ***EC Call for proposals under Horizon 2020 – Climate Services for Africa under Research and Innovation***
- **Proposed actions:**
 - Should exploit new, relevant climate data made available by Copernicus and other relevant sources (such as GEOSS) and create dedicated climate services for Africa for at least two of the following sectors: water, energy, land use, health and infrastructure.
 - Should develop and deliver tools/applications which demonstrate clear end-user engagement, consultation and participation, and which enhance planning and implementation of climate adaptation strategies in Africa.
 - Should consider activities addressed by other initiatives such as the Global Framework for Climate Services (GFCS), Copernicus, and development cooperation activities, and provide added value. Actions should further consider the EU-Africa Research and Innovation Partnership on Climate Change and Sustainable Energy

Summary

- PAC is key to ensure GFCS coordination
- PAC members are also providing key contributions to regional level implementation and the strengthening of the GFCS Pillars
- Greater convergence at national level as well as between and among partners would benefit from increased collaboration
- PAC facilitates GCFS linkages with major global agendas
- Efforts are still needed to enhance effectiveness



Thank you for your attention