



ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT



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ACTIVITY PLAN PHASE IV Activity period 2014-2015

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The Associated Programme on Flood Management (APFM) is a joint initiative of the World Meteorological Organization (WMO) and the Global Water Partnership (GWP). It promotes the concept of Integrated Flood Management (IFM) as a new approach to flood management. The programme is financially supported by the Governments of Switzerland, Germany and USAID.



The World Meteorological Organization (WMO) is a specialized agency of the United Nations. It coordinates the activities of the meteorological and hydrological services of 191 countries and territories and is the authoritative voice on weather, climate and water.



The Global Water Partnership (GWP) is an international network open to all organizations involved in water resources management. It was created in 1996 to foster Integrated Water Resources Management (IWRM).



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1 ASSISST IN THE IMPLEMENTATION OF IFM

1.1 SUPPORT FOR PROJECTS

1.1.1 Technical Support

APFM will continue providing this demand driven service based on the request received via the IFM HelpDesk.

Among the already identified projects to support these activities are:

- PRONACH (Mexican Flood Management Programme)
- Community Based Flood Management (CBFM) in Thailand and Lao
- Coastal Flood Management in Bangladesh
- Integrated Flood Management and Project Preparation in Benin, Burkina Faso, Cameroon, Cote d'Ivoire, Ghana, Mali, Nigeria and Senegal

1.1.2 Institutional Support

APFM will continue on providing this demand driven service based on the requests received via HelpDesk.

Among the already identified projects to support these activities are:

- PEARL (Preparing for Extreme And Rare events in coastaL regions).
- Support to GWP China in the adoption of IFM
- Instrument for Pre Accession (IPA) project proposal on flood resilience for the Western Balkans and Turkey

1.1.3 Funding support

In order to align implementation needs with funders and donors, APFM will provide services of brokerage and assisting in finding funding solutions to projects that request APFM's assistance via the IFM HelpDesk.

Among the already identified projects to support funding activities are:

- Transboundary issues in the Dniester
- Reinforcement of Sudan Water Partnership (SWaP) network of trainers
- Community Based Flood Management in Nepal
- Coastal Flood Management in Vietnam

1.1.4 Follow-up on projects from previous phases and linkages with other programmes

In Phase IV, one main line of activity related to pilot projects will be on maximizing the effects of other WMO and GWP activities based on the results of the pilot projects undertaken by APFM. This will contribute to the Phase's objective of "Mainstreaming IFM into policy and practice".

Synergies and closer cooperation should be sought with:

- Flash Flood Guidance System (FFGS)
- Severe Weather Forecasting Demonstration Project (SWFDP)
- Coastal Inundation Forecasting Demonstration Project (CIFDP)

Follow-up of previously planned/implemented activities include:

- Coastal Flood Management in Bangladesh
- Community-Based Flood Management in Iowa, USA
- Use of wetlands and floodplain management (with Ramsar and WWF) in Pakistan
- ANADIA phase II – West African Region Water Partnership workshop on IFM
- Support to the Amur River Basin Organization on transboundary flood management
- GWP capacity development programme on Integrated Urban Water Management

Table 1.1. Summary of “Support for projects” activities

Date	Country	Description
November 17-20th 2014	Mexico	Follow-up and provide support the implementation of the PRONACH
End of January 2015	PEARL	Project meeting PEARL, 3rd meeting in Copenhagen (tbc), participation as work package leader
(tbc)	Thailand and Laos	Follow-up of planned activities on pilot projects with ADPC.
(tbc)	Pakistan	Follow-up to re-schedule the workshop on the use of wetlands and floodplain management (with Ramsar and WWF).
(tbc)	Mali	Follow-up for an ANADIA phase II project to be considered in connection to the workshop in West Africa.
(tbc)	Benin, Burkina Faso, Cameroon, Cote d’Ivoire, Ghana, Mali, Nigeria and Senegal	Integrated Flood Management and Project Preparation in Benin, Burkina Faso, Cameroon, Cote d’Ivoire, Ghana, Mali, Nigeria and Senegal
Spring 2015	Russia and China - Amur River Basin	Exploratory mission Advocacy of IFM in Russia and China, participation in the Forum "Nature without borders" in Vladivostok, vocational mission to the Amur River Basin Organization headquarters on transboundary flood management.
(tbc)	Iowa State, USA	Follow-up on community based flood management approaches in developed countries.
(tbc)	Moldova & Ukraine	Identify opportunities for funding the project proposal in the Dniestr River basin on transboundary flood management
(tbc)	East Africa	Reinforcement of Sudan network of trainers
2015	Nepal	Workshop Capacity building on community-based flood management and proposal for a pilot project in the Lakhandehi River basin (Terai region (date tbc))
(tbc)	Viet Nam	Identify donor for funding the Pilot Project on Integrated Coastal flood risk management in Central Viet Nam, focusing on the Quang Ngai province
(tbc)	Balkans	Project proposal under development on capacity building in the framework of an IPA project on “Prevention, preparedness and response to floods in the Western Balkans and Turkey”



1.2 CAPACITY BUILDING FOR IFM

1.2.1 Development of IFM materials

Further creation of materials in the form of presentations will be created and/or enhanced to support the implementation of capacity building trainings and workshops. Collaboration from SBP is encouraged. Among the materials provided are:

- introductory power point slides on IFM and various aspects of IFM in general (to be published on the APFM website);
- template for surveys post-training
- Multimedia and e-learning resources (Project WET, MetaMeta)
- Educational programmes for kids and wider public
- Provide feedback and support to the GWP Course on Integrated Urban Water Management
- Provide feedback to Cap-Net Course on Integrated Water Resources Management
- Coordinate with GWP Caribbean on ‘Advancing Ecological and Environmentally Friendly Approaches for IFM’
- Provide guidance and feedback to the World Bank e-learning on the role of Land Use Planning in Disaster Management
- Prepare Power Point presentations on IFM Tool Series
- Finalize IFM Training Manual with Cap-Net
- Revive CBFM Training Manual with ADPC
- Develop action plan on E-learning with TUHH

As part of the development activities, accreditation of materials will be sought via UNITAR, following UNOSAT’s proposal.

1.2.2 Support national and regional effort for capacity development

SBPs packages

Efforts will be made to co-organize training courses with SBPs in the form of “training packages”. This will allow, among other things, to:

- Provide a ready-to-use service, that would be tailored according to specific needs
- Give SBPs a higher visibility among beneficiaries of APFM
- Simplify the presentation of services that can be project-funded

As part of these efforts, a first portfolio of pilot packages will be developed with UNOSAT and CIMA. The topics covered will be determined after a Needs Assessment is performed.

Trainings and workshops

APFM will continue to provide this demand driven service in its three main variations (vocational workshops, strategy workshops, and trainings of trainers). Additionally, taking into consideration the need of beneficiaries to attract funding to their projects in the long term, APFM will introduce “Project Preparation to Leverage Funding” as a topic in their workshops taking into consideration GWP’s expertise in the area.

Among the already identified activities for 2014-2105 are:

- Training workshops:
 - Capacity building workshop on IFM principles and Project Preparation for Benin, Burkina Faso, Cameroon, Cote d’Ivoire, Ghana, Mali, Nigeria and Senegal supported by the National Meteorological and Hydrological Services (NMHSs) and the GWP Country Water Partnerships (CWPs) and targeting other relevant ministries (Ministry of Finance).
 - Bangladesh – high level dialogue on Coastal FM and project proposal development
 - Argentina – support development of a partnership with Cuba on IFM courses



2 COMPILATION AND DISSEMINATION OF KNOWLEDGE

2.1 POLICY SERIES AND IFM TOOLS

2.1.1 IFM Concept Paper

The Concept Paper will be revised to create the 4th edition.

2.1.2 Economic Aspects of IFM

The available draft will be forwarded to USAID for their comments.

2.1.3 Environmental Aspects of IFM: Case Studies

The TSU will elaborate a compilation of case studies regarding the environmental aspects of IFM. For this matter, interested SBPs will present examples for the inclusion in the publication.

2.1.4 IFM tools

Finalize in first half of 2015

- Regulations and Technical Standards for Flood Management
- Health and Sanitation Aspects of Flood Management
- The Role of the Media in Flood Management
- Social Impact Assessment and Public Perception of Flood Risk in IFM
- Effectiveness of Flood Management Measures

Finalize in second half of 2015

- **Effectiveness of Flood Management Measures - Case Studies**
Case studies related to the tool under the same name will be compiled once the tool is finalized.
- **Crisis Mapping and Crowdsourcing in Flood Management**
A first draft will be developed by Mr Kevin Dobbs, an external consultant from the University of Kansas. This first version will be revised by the TSU in collaboration with the consultant and, possibly, with interested SBPs (CERFE has shown interest in assisting with the revision). No linguistic editing is anticipated.
- **Flood Management in a Multi-hazard Environment for the Private Sector**
Background materials have been collected and a first draft has been developed. ADCP expressed interest in completing the first draft.

Draft creation

- **Primer**
A Primer is to be developed, acting as an umbrella for the IFM Tool Series, to mainstream into practice the IFM concept, and identify the different approaches to maximize net benefits from the use of the floodplain. This will entail integrated and balanced approaches, focusing not only on structural or non-structural measures, but of mixing the two approaches. It will highlight specific roles for gender, youth and disabled people. The publication could be launched for the 15 Anniversary celebrations of the APFM.
- **The Contribution of Geospatial Science to Flood Management**
This Tool is envisaged to identify geospatial science contributions to flood management before, as well as during, and after flooding. By filtering and visualizing relevant data, it can: support emergency management through the provision of inundation maps; enhance preparedness by developing risk maps, monitoring flood risk and precipitation forecasts; and bolster recovery by, for example, preparing damage assessment and recovery progress maps.
- **Issues of Gender, Youth and Disabled Persons in Flood Management**
The Tool aims to outline specific roles for women, youth and disabled peoples in all phases of the flood management process (before, during and after flooding), in order to actively engage them in the



decision-making and conductance of the activities. This encompasses issues such as the inclusion of women, youth and disabled people's needs and interests in the planning and preparedness phase, the provision of specific survival and recovery resources tailored on them, the elimination of responsibilities and limitations that prevent their full recovery or their involvement in the process.

- **Loss Assessment case studies**

A collection of case studies will be assembled, illustrating not only different procedures for assessing flood losses, but also the different purposes that such exercises may serve. It will be based on materials collected for the IPA workshop in Sarajevo 2014 and on the input from TUHH, Euroaquae Consortium, CIMA Foundation and Polytechnic University of Milan.

- **Science-policy interface or “how to talk to decision makers”**

This tool will provide hints to flood managers on how to fill the gap when communicating with decision makers. A first draft (in Spanish) has been developed in the framework of the PRONACH by Mr Alexander Lopez, professor at the School of International Relations of the Costa Rica University, and may be further developed to better meet the needs of APFM target audiences.

- **Historical approaches and coping strategies for flood management**

This IFM Tool will make an overview of the various structural and non-structural approaches that have been used to manage floods, how they might have been applied in isolation or in combination with emphasis on the lessons learnt from each approach or their combined use (i.e. their effectiveness or the reason for their failure). This activity will also look into coping strategies that may have been adopted that could prove valuable under lessons learnt and could ultimately be used more broadly by other communities. Contacts have been established on this topic, and potential resources identified, with the ICID Working Group on Historical approaches to irrigation and drainage, as well as with Mr John Matthews from the Alliance for Global Water Adaptation.

- **Project Cycle in Flood Management**

This tool or manual will present an overview of the different approaches to project cycle management, with particular focus to flood management projects. Its aim would be to provide the reader with the logical and procedural framework to set up a sound project, from the early phases to the post-implementation evaluation. At the same time, it would present examples of terminology and evaluation grids used by selected donors (e.g. European Commission, national cooperation agencies, etc.), in order to facilitate the user in preparing pilot projects complying with the donor's requirements.

Revision of past tools

The following tools will be revised:

- Formulating a Basin Flood Management Plan
- The Role of Land-Use Planning in Flood Management
- Flood Management in a Changing Climate
- Organizing Community Participation for Flood Management
- Revision of the tools on “Management of Sediment-Related Risks” and “Flood Emergency Planning” may also be considered

2.2 Advocacy in external meetings and conferences

This rubric refers to the participation and attendance of APFM to international meetings and conferences related to issues relevant to IFM. Participation can be understood as being presenter of a paper or poster, workshop facilitator, presence in a booth at an exhibition, among others.

Date	Place	Title	APFM participation
31 th August to 5 th September 2014	Stockholm, Sweden	World Water Week 2014	APFM distributed information on IFM in a booth at the during the conferences
16-18 th September 2014	Sao Paulo, Brazil	6th International Conference on Flood Management (ICFM6)	The TSU presented a poster on PEARL and co-wrote two papers for the conference

14-15 th October 2014	Geneva, Switzerland	UNECE's 5th Workshop on Adaptation to Climate Change in Transboundary Basins	The TSU advocated for WMO activities regarding water management, including the two joint programmes with GWP, APFM and IDMP.
17-18 th November 2014	Geneva, Switzerland	Second Session of the Preparatory Committee for the World Conference on Disaster Risk Reduction	APFM will be present at the sessions as part of WMO's and GWP's delegation.
1-12 th December 2014	Lima, Peru	20th session of the Conference of the Parties (COP20)	APFM will send advocacy materials and will be represented by UN-Water and GWP.
14-18 th March 2015	Sendai, Japan	3rd World Conference on Disaster Risk Reduction (WCDRR)	APFM to assist in development of a working session on IWRM with a focus on extremes (floods, droughts)
12-17 th April 2015	Daegu and Gyeongbuk, Republic of Korea	7th World Water Forum (WWF)	
22-28 th Aug 2015	Stockholm, Sweden	25th World Water Week 2015 (WWW)	APFM will work together with WMO and GWP delegation to the WWW to decide on its engagement.
30 th Nov-11 th Dec 2015	Paris, France	21th session of the Conference of the Parties (COP21)	

2.3 Communication Strategy

2.3.1 Advocacy through articles and other outreach materials

APFM Newsletter

Four newsletters will be issued during the period of August 2014 and December 2015 (one in 2014 and 3 in 2015). This feature has proven useful for disseminating the results and achievements of the programme, and to inform about on-going activities and any relevant news related to the programme.

Policy briefs

Policy briefs will be prepared and shared with interested parties (i.e. NMHSs, Regional and Country Water Partnerships –R&CWP-, journalism community).

UNISDR "Guest Editor"

12-18th January 2015

A staff member of APFM will participate in UNISDR initiative to invite guest editors in their website www.preventionweb.net. The purpose is to share opinions on trends in an area of expertise, in this case in flood management. It will help promote IFM as an approach to deal with floods.

Wikipedia

Wikipedia articles on IFM, APFM and related topics will be created in order to further disseminate the approach on the web.

Additionally, APFM will increase its presence in external newspapers, newsletters and websites as well as make use of other media features deemed appropriate depending on availability, reach, and arise of opportunities.



2.3.2 Social Media

Actions in social media presence will be undertaken based on the availability of workforce. The areas of focus are:

- **Facebook:** The page serves as a mechanism to cross-reference and promote activities of WMO, GWP and SBPs in social media.
- **Twitter:** Twitter will be used as a platform to engage in conversations with stakeholders and decision-makers related to flood management.
- **LinkedIn:** LinkedIn will be used as a forum to discuss IFM-related topics with experts and general public.

2.3.3 Ask for references

The database that has been kept until now has been proven to be difficult to upkeep and thus the Reference Data Centre will transform into “Ask for references” where the user can inquire about specific topics of concern and will receive an answer with detailed relevant references.

2.3.4 Website

The website is APFM’s main mechanism to deliver services. It will undergo a restructuring which will take into account several issues raised during the 2014 AC/MC meeting. Among the issues to be addressed are:

- Providing keywords in the different pages so that users with languages other than English are attracted to the website
 - Make a trial with Spanish and, depending on availability of staff, continue with other languages
- Enhance SBPs visibility
- Provide an online form to apply for services within the IFM HelpDesk
- Create tracking mechanisms for monitoring purposes
- Improvement of FAQ section

3 SUSTAIN AN EFFECTIVE AND WELL GOVERNED PROGRAMME WITH ACTIVE PARTNERS

3.1 SBPs

An SBP strategy is to be created in order to define new mechanisms of cooperation and enhance current ones between the TSU and the SBPs.

For this activity period it is also envisioned to work with each SBP to define their profiles and update their LoEs.

3.2 Cooperation with NMHSs and GWP RWPs & CWPs

Cooperation and ties will be enhanced with National Meteorological & Hydrological Services and with Regional & Country Water Partnerships. Active involvement of both the NMHSs and GWP RWPs & CWPs will be pursued in trainings and workshops and through them reach-out to other relevant ministries (Ministry of Finance).

3.3 Synergies with WMO and GWP programmes

Further APFM’s network by establishing collaborations with programmes such as SWFDP, CIFDP, FFGS, DRR, WACDEP, GWP’s Urban Theme, GFCS, etc.

3.4 External review

An external review will be conducted in order to assess APFM since its inception. Terms of References will be drafted, reviewed by the MC, and subsequently submitted to donors for possible funding.



3.5 Strategic planning

Efforts during the first semester of Phase IV will be channelled to set the direction for the entire phase. The strategic planning includes the development of the following documents: Action Plan, SBP Strategy, and Fundraising Strategy.

3.6 Fundraising strategy

During this period, a Fundraising Strategy will be planned and developed to establish actions to assist in securing funds for both APFM's core and project activities.

3.7 Sustaining the TSU

For the proper functioning of the TSU, there is a need to maintain sufficient and capable workforce for APFM's core activities. The staff should grow in accordance to the growing demands of HelpDesk services to ensure quality and possibility to meet demands. Part of the efforts during this year will go to finding human resources to undergo the activities for the period.