



ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT



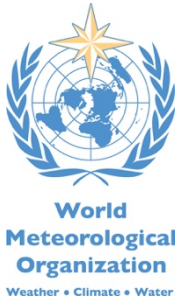
**ASSOCIATED PROGRAMME ON
FLOOD MANAGEMENT**

FINAL REPORT ADVISORY COMMITTEE AND MANAGEMENT COMMITTEE MEETINGS

12-13 September 2016
Geneva, Switzerland



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 Federal Office for the Environment of Switzerland (FOEN), the Ministry of Foreign Affairs of France, the U.S. Agency for the International Development (USAID) and the National Water Commission of Mexico (CONAGUA).



The World Meteorological Organization (WMO) is a specialized agency of the United Nations. It coordinates the activities of the National Meteorological and Hydrological Services of 191 Member States 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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ACRONYMS

AC/MC	Advisory Committee/Management Committee
ADPC	Asian Disaster Preparedness Center
AECID	Spanish Agency for International Development Cooperation
APFM	Associated Programme on Flood Management
BfG	German Federal Institute of Hydrology
BKK	Bangkok
BoM	Bureau of Meteorology (Australia)
CBFM	Community Based Flood Management
CHy	Technical Commission for Hydrology
CIFDP	Coastal Inundation Forecasting Demonstration Project
CIMA	Centro Internazionale in Monitoraggio Ambientale
CONAGUA	Comisión Nacional del Agua
DHI	Danish Hydraulic Institute
DRR	Disaster Risk Reduction
DSS	Decision Support System
ETH	Swiss Federal Institute of Technology in Zurich
EuroAqua	Euro-Informatics and Water management
FFGS	Flash Flood Guidance System
FFI	Flood Forecasting Initiative
FGG	Flood Green Guide
FICH	Facultad de Ingeniería y Ciencias Hídricas
FM	Flood Management
FOEN	Federal Office for the Environment of Switzerland
GFCS	Global Framework for Climate Services
GHSF	Global Hydrometry Support Facility – also called HydroHub
GWA	Gender and Water Alliance
GWP	Global Water Partnership
IAEA	International Atomic Energy Agency
ICHARM	International Centre for Water Hazard and Risk Management
IDMP	Integrated Drought Management Programme
IFM	Integrated Flood Management
IGAD-HYCOS	Eastern Africa Hydrological Cycle Observing System
INTERCOONECTA	Plan de Transferencia, Intercambio y Gestión de Conocimiento para el Desarrollo de la Cooperación Española en América Latina y el Caribe
IPA	Instrument for Pre-Accession Assistance
IPA-FLOODS	The Programme for Prevention, Preparedness and Response to Floods in the Western Balkans and Turkey
IWRM	Integrated Water Resources Management
NGO	Non-Governmental Organization
NMHSs	National Meteorological and Hydrological Services
PEARL	Preparing for Extreme And Rare events in coastal regions
Polimi	Politecnico di Milano
RALCEA	Red latinoamericana de centros de conocimiento en el sector del agua
SBP	Support Base Partner
SDGs	Sustainable Development Goals
SWFDP	Severe Weather Forecasting Demonstration Project
TSU	Technical Support Unit
TUD	Technische Universität Dresden
TUHH	Technische Universität Hamburg-Harburg

UNEP	United Nations Environment Programme
UNESCO-IHE	UNESCO Institute for Water Education
UNESCO-IHP	UNESCO International Hydrological Programme
UN-HABITAT	United Nations Human Settlements Programme
UNISDR	United Nations Office for Disaster Risk Reduction
UNOSAT	United Nations Operational Satellite Applications Programme
USAID	United States Agency for International Development
WACDEP	Water, Climate and Development Programme
WGH	Working Group on Hydrology
WMO	World Meteorological Organization
WWF	World Wildlife Fund

PART I ADVISORY COMMITTEE

1. Opening

The meeting of the Advisory Committee (AC) of the Associated Programme on Flood Management (APFM) opened on the 12th September 2016 at the World Meteorological Organization (WMO) headquarters in Geneva, Switzerland. It was chaired by Mr Torkil Jønch Clausen from the Global Water Partnership (GWP).

The TSU was introduced by Mr Johannes Cullmann, Director of the WMO Climate and Water Department, who thanked the presence of all those present to then give way to discussions between the members of the Advisory Committee (AC).

After a brief self-introduction by all participants (Annex I), the agenda (Annex II) was considered. The Chair noted with appreciation the topics contained within the agenda for this meeting. The agenda was adopted with no amendments.

2. Review of APFM Activities for the year 2015/2016 and proposed activities for the year 2016/2017

Presentations of APFM activities for the period 2015/2016 were made by the APFM TSU and discussed in detail by participants. The following topics were addressed.

Note: Colour coding for this report reflects the priority given to the activity by the AC/MC:

- Represents “High priority”
- Represents “Medium priority”
- Represents “Low priority”

Colours reflect exclusively the priority given to the task by the AC/MC, i.e. which activities AC/MC would like to see implemented by next meeting in 2017. They do not reflect neither the expected delivery date (in terms of urgency), nor the importance of the topic, nor the ability (in terms of capacity and time availability) to perform the task by the TSU.

The APFM review, developed and presented by Caroline Wittwer and Curtis Barrett, has been a major point along the meeting. It is worth highlighting, among the topics covered on it, the commitment to identify remedial actions to enhance the development and sustainability of APFM, and hence the need to implement a new business model (see section 3). The content of the review will be detailed in the following sections.

Overall, the APFM would give from now on priority to bankable projects/activities moreover the TSU will reduce, consider stopping, the development of new IFM Tools and limit the revision of existing publications to feedback received.

2.1 Publications

The AC reviewed the publications produced in 2015/2016 and considered the proposals for new publications for next year as submitted by the TSU. Priorities were discussed and assigned as per the colour code presented under section 2 of this report. For the future, APFM should collect from Support Base

Partners (SBPs) a feedback on the usefulness and impact of IFM Tools, among those that they are using or/and they used. Also, APFM should increase the visibility of IFM Tools by developing specific infographics and promoting tools through the Social Media. Translating the tools and policies in other languages, e.g. Spanish, could be an important approach to enhance the dissemination of these.

IFM Policy Series

When examining the work done in relation to this series, the Advisory Committee expressed the following priorities:

- “Primer for Integrated Flood Management from Theory to Implementation” – Under finalization. It is relevant to note that WWF will review and send comments related to linkages to the WWF/USAID Flood Green Guide (FGG). WWF will consider how the DSS in the Primer might be used in training for the FGG;
- “Environmental Aspects of IFM Case Studies” – Under finalization. Regarding the environmental case studies also referenced from last year’s meeting, Giacomo will review the final draft of the WMO case studies that were completed in March and then share with WWF. There may be WWF FGG case studies that can be contributed to the WMO environmental case studies volume;
- “IFM Concept Paper 4th edition” – This paper should be updated including, among others aspects, new issues such SDGs and post- Sendai;
- “Economic Aspects of IFM 2nd edition” - Revision still needed. Consequently, UNU FLORES offers expertise to support the revision.

IFM Tool Series

The Advisory Committee analysed the progress achieved to date in the IFM Tool Series and agreed on the proposed publications for next year, indicating priorities and willingness to collaborate (see the lists below). Furthermore, the AC suggested that, besides offering support to review or enhance existing Tools, the SBPs could produce them independently from the TSU, making them available through the HelpDesk at a later stage, as well as presenting the APFM Tools at events in which they are involved.

In order to increase the support for IFM implementation, e.g. e-learning courses, workshops and trainings or capacity building for project proposals, some measures will be taken from now on, among which stop the development of new IFM Tools and limit the revision of existing publications to feedback received are noteworthy.

General points for considerations:

- Track process to know how Tools cover actual needs, expectations and what is their impact. It was suggested to SBPs to inform the TSU whenever they promote or disseminate APFM publications, in order to better assess which topics are to be improved in the future and to help in identifying gaps;
- APFM will not be engaged with the same level of effort in finalizing publications. The idea is rather to make use of SBP voluntary initiatives for the development of publications, and assist them in showcasing the final result;
- All the editorial process (including the visual identity), however, will not be dealt with by APFM TSU;
- Deltares institute offered to lead the development of a new Tool on Green Infrastructures for FM, linking to the mentioned WWF/USAID publication on “Green Flood Risk Management Guidelines” (provisional title) – GWP is keen to contribute;
- WMO is working to scaling back their responsibility for tool and publication development, by subcontracting to partners. WWF and WMO are considering a joint publication of summary of the FGG with additional case studies as a APFM publication and may include 2 pages of the FGG methods similar to the UNEP 2 pagers shared at the Bangkok meeting. WWF is drafting a short plan and budget, and WWF/WMO should jointly fundraise to complete.

IFM Tools published:

- The Role of the Media in IFM;
- Public Perception of Flood Risk and Social Impact Assessment;
- Effectiveness of Flood Management Measures;
- Reservoir Operations and Management Flows 2.1;
- Health and Sanitation Aspects of Flood Management;
- Technical Assistance for the Preparation on an Advocacy Strategy (English and Spanish).

IFM Tools being finalized in terms of content:

- The Role of Land-Use Planning in Flood Management - 2nd edition.

IFM Tools being edited:

- Organizing Community Participation for Flood Management 2.0;
- Crisis Mapping and Crowdsourcing in Flood Management.

IFM Tools under revision or development:

- Flood Emergency Planning - 2nd edition;
- Loss Assessment Case Studies.

IFM Tools to be initiated:

As suggested during the AC/MC, the programme will not dedicate further resources in the development of new tools, however, contributions from SBPs interested in developing them will be accepted.

- Flood Management in a Multi-hazard Environment:
 - BfG and (CHy) volunteered to assist in the development - TSU to send them the available draft;
 - Contact specialists who deal with multi-hazards to give a broader approach to the publication (e.g. reinsurance companies, UNISDR);
- The Contribution of Geospatial Sciences to Flood Management – Centro Internazionale in Monitoraggio Ambientale (CIMA) volunteered to take the lead, consulting other SBPs (e.g. UNOSAT);
- Rapid Legal Assessment 2nd edition – University of Dundee volunteered to take the lead;
- Green Infrastructures for Flood Management (WWF/ Deltares);
- Natural and Nature-Based Flood Management: A Green Guide (FGG): drawing foundational concepts, e.g. IFM, and using APFM publications as Additional Resources ;
- Formulating a (transboundary) Basin Flood Management Plan – 2nd edition;
- Project Cycle in Flood Management – Pegasys.

2.2 HelpDesk

As per the recommendations of the Advisory and Management Committees of 2015, the lists of HelpDesk requests have been aggregated in a single list, independently from the channel through which the request has been received. During the thorough examination of the data, it was noticed the need to include new categories to improve the structure of the classification, as explained in the Annual Report.

AC/MC was pleased to note this new classification of requests, which led to the detailed analysis presented in the annual report under Annex I.

2.2.1 Capacity building

Only commitments for trainings and capacity building taken previously to the AC/MC meeting will be honoured, whereas the rest will need to consider a cost-recovery basis because of the need for implementing a new business model. The same logic will be implemented for training manuals: either they will be presented and implemented through third party funding (e.g. Gender manual sponsored by USAID)

or they become second priority . The AC recommended that the TSU proceed with the implementation of the proposed undertakings, according to the following order of priority:

Training Materials :

- Develop training manual with the Gender and Water Alliance (GWA) on Gender Issues of Flood Management;
- Develop training modules in Spanish for local Civil Protection authorities in Paraguay (CONAGUA interested to participate and use these modules);
- Develop IFM training manual based on the review of the feedback collected from SBPs;
- Prepare power point presentations of remaining IFM Tool Series;
- Develop training materials on the Organizing Community Participation for Flood Management tool;
- Develop a action plan on e-learning with TUHH, TUD, UNU-FLORES, University of Geneva and University of Dundee, to enrich the current e-learning webpage on the APFM website with other existing platforms from partner institutions. UNU-FLORES, having strong links with TUD, would therefore encourage building synergies and working collectively on the development of further courses;
- Develop a action plan of training materials for WWF Flood Green Guide (FGG) wherein WWF will consider how the DSS in the Primer might be used in training for the FGG.

Training Workshops to be held in:

- West Africa, Training on IFM and Project Preparation in the Volta Basin for relevant authorities, including NMHS, in the 6 riparian countries and basin authority with support of GWP Country and Regional Water Partnerships and GWP WACDEP;
- Montevideo, Uruguay, in the framework of the INTERCOONECTA Plan, RALCEA and AECID, in cooperation with FICH, organize a course on IFM;
- Zurich, Switzerland, lecture on Data collection and use for flood and drought protection in the framework of the ETH Water Resources Seminars;
- Antalya, Turkey, training on Basin Flood Management planning in the framework of IPA-FLOODS with CIMA;
- UNESCO is committing to make use of the training materials in its centers;
- Mexico, CIMA is going to held ToT for primary school teachers based on APFM materials;
- Discuss needs in support IGAD-HYCOS activities;
- Follow up on IAEA training materials.

In the elaboration of new training materials and workshops, certain aspects must bear in mind such how APFM and SBPs want to achieve their targets and how they want to promote the APFM work. For this purpose, target groups shall be identified for training based on needs and thematical courses shall focus on practical hands-on «how to». Otherwise, theoretical or abstract concepts could be confusing and therefore, they would not be an efficient way of communication. In the short term, it would be desirable to follow up the continuity and develop a catalogue of services as well as a database of people trained in IFM such a recommendation to be envisaged with the aim of strengthening APFM capacities.

A close coordination with SBPs providing trainings seems to be an important action to carry out to avoid repetitions and/or overlap. In this way, trainees and trainers could act as multipliers in developing countries keeping track and creating a database of all of them.

2.2.2 National and Regional Support Activities

Among the numerous national and regional support activities planned for 2015/2016, the Committee confirmed the following priorities:

- Support to develop “bankable” IFM projects in the Volta basin with GWP Regional and Country and NMHS;

- Support PEARL – Preparing for Extreme and Rare events in coastal regions (with UNESCO-IHE, TUHH, Euroaquae, DHI, ICHARM and others);
- Review the Community Based Flood Management (CBFM) in Thailand and Lao;
- Instrument for Pre Accession (IPA) and Horizon 2020 support to consortia;
- Support the PRONACH in Mexico;
- Enhance linkages with GFCS, CIFDP, FFGS and SWFDP – Flood Forecasting Initiative;
- Seek synergies with RA II and other WMO activities (e.g. WGH-RA III, Malawi/GFCS, DRR, GHSF, TCP, CIFDP/Bangladesh) – especially DRR.;
- Follow developments on CBFM in Iowa State and FLOODSS – DHI, Deltares, CIMA, PoliMi, UNU-FLORES should be involved in discussion;
- Seek funding opportunities for transboundary issues in the Dniester and other activities;
- Support GWP Caribbean by providing knowledge products on flood management;
- Support GWP South-Asia, S-E Asia, in issues related to community-based flood management;
- Support GWP Regions in Asia to develop work stream on flood management;
- Support GWP Central Africa and Lake Chad Basin Commission for early warning system project preparation in Logone basin (part of Lake Chad basin);
- Feedback on the Limpopo Disaster Preparedness Action Plan 2016-2030 through GWP Southern Africa;
- Enhance WMO urban cross-cutting issues;
- Support IFM in the Amur River Basin and in Siberia;
- Support China through GWP China in adopting IFM planning and practices.

Overall, the products and materials sharing should be promoted in order to enhance synergies and to encourage the creation of links and the cooperation between SBPs. Synergies should be sought in developing bankable project proposals with SBPs for the benefit of developing countries. This could be a crucial component for the development of the new business model, and majority of TSU efforts should be given to this area in the next reporting period.

2.3 APFM Outreach

The Communication Officer, Celine Novenario, has proposed to improve the outreach activities on the basis of 4 main axes, those described below:

- Support Base Partners: Possible collaboration and cross-promotion with SBPs with an active social media presence (e.g. UNESCO-IHE Institute for Water Education with over 15k Facebook followers):
 - On our side, promote their SBPs expertise on social media by highlighting an SBP periodically
 - We can also ask SBPs to promote APFM tools and publications on their social media accounts;
- Draw attention to existing tools and publications: Infographics visually conveying salient points from APFM information materials will be developed for sharing on APFM and SBP social media profiles;
- Catalogue to existing tools and publications: Infographics visually conveying salient points from APFM information materials will be developed for sharing on APFM and SBP social media profiles;
- Engage Palais de Nations press corps : Weekly press briefings are held at the Palais de Nations and special briefings can be organized when we have newsworthy items to share. We can increase APFM's visibility by sending expert with the WMO Press Officer to these briefings on occasions when flood management is top of mind for the public – following a flooding event, for example .

Recognizing the major role that communication and outreach could play in attracting donors and ensuring a higher impact of APFM products, the Advisory Committee discussed the APFM outreach activities and made the following recommendations:

- Try to involve the diplomatic environment to advocate for IFM ;
- Continue the publication of the Newsletter (3 issues per year);
- Consider to increase the Social Media (e.g. Facebook, Twitter) activity to increase the APFM visibility;
- Develop short videos devoted to non-technicians (elevator speeches);

- Participate and advocate for the concept of IFM at the Flood Risk 2016 conference, 17-21 October 2016, Lyon, France;
- Consider having materials/webpages translated in Spanish and French;
- Consider advertising HelpDesk available facilities in Spanish and French as well;
- Try to track keywords leading to APFM website;
- Volunteering SBPs to act as outreach antennas in their region/country;
- Try to link the Repository of know-how assembled by BoM on Flash Floods to the HelpDesk;
- SBPs should share relevant information with Outreach Officer regarding ongoing/future activities, particularly when this involves use of APFM materials;
- Include in the catalogue of services findings from the Tour de Table;
- UN-HABITAT III, joint session with UNESCO-IHP (APFM to provide materials).

In 2016, knowing the exact number of downloads is still a challenge so this indicator should be ruled out unless a technique to make the calculation is discovered. Following on from the technique questions, APFM could reach more people with social media with limited resources; this solution might be more cost-effective, and a faster way of communication. Regarding the professional side, LinkedIn is the most appropriate social media tool to enlarge the existing network.

Lastly, to better understand the geographical distribution of the SBPs, APFM activities, etc, an interactive map directly accessible and visible, to all audiences, from the APFM website would emphasize the location of these.

3. Critical Issues and Strategic Possibilities

The HelpDesk as a facility to support E2E Flood Forecasting

The Flood Forecasting Initiative (FFI) is a framework to promote the enhancement of flood forecasting capabilities of National Meteorological and Hydrological Services (NMHSs):

Task 1: by ensuring that all major demo projects and components include the requirements/best practices for effective and sustainable flood forecasting in their design and implementation;

Task 2: by ensuring guidance material available for NMHSs and for donors, NGOs, and other organizations working to strengthen flood forecasting capabilities in national services;

Task 3: by facilitating the development of an inventory of existing training programmes and related reference materials, identifying weaknesses/gaps, and recommending development of additional materials to overcome weaknesses/fill gaps;

Task 4: by ensuring access to guidance material and training through the **IFM HelpDesk**.



Figure 1. Steps of the Flood Forecasting Initiative

The Flood Forecasting Initiative, steered by an Advisory Group, aims at promoting the E2E FFEW concept, while at the same time finding and coordinating synergies between different WMO activities sharing a common disaster risk reduction objective. The initiative is composed by 5 steps, as follows:

- **Collection of real-time data** for the prediction of flood severity. For this component WMO is launching GHSF - HydroHub;

- **Preparation of forecast information and warning messages**, this component is assured as WMO is already implementing the FFGS at various regional levels;
- **Communication and dissemination**;
- **Interpretation of the forecast and flood observations**WMO can also provide to requesting countries the DEWETRA platform, a multi-hazard integrated platform developed by CIMA Foundation;
- **Response to the warnings** by the agencies and communities involved;
- **Review of the warning system** and improvements to the system after flood events.

The AC/MC took note of the recommendation of the CHy Advisory Working Group and agreed to have the IFM HelpDesk acting as the dissemination tool for the FFI products.

Getting donors involved – proposals of new business models from the APFM review

The search for a new business model has been necessary since there will be no external donor financing the APFM trust fund from the end of 2017. The review of APFM Assessment presented seven different scenarios regarding the APFM future, some of them more extreme than others:

Scenario 0: stop all the activities, which leads to the end of the program;

Scenario 1: maintenance of APFM website entailing no more help, revised material and projects;

Scenario 2: access to documents and help, the activity would be reduced to provide HelpDesk services expanding it in order to include Hydrometry and Climate Services. By contrast, new IFM material are not envisaged and to carry out the HelpDesk tasks, a new business model would be required;

Scenario 3: status quo, where APFM would maintain IFM material, received a low dose of new material and provide standard HelpDesk services. As Scenario 2, a new business model and an increase on project implementation would be required;

Scenario 4: increase E2E EWS Focus within IFM, to adopt this scenario would have to collect and present material on E2E EWS developed under the FFI, maintain IFM material, provide HelpDesk services through a soft marketing and a new business model;

Scenario 5: increase E2E EWS Focus within broader water management, it would have the same procedure to follow than previous models (2,3 and 4) but incorporating new material on drought and water management, and providing HelpDesk services on flood and drought issues;

Scenario 6: Intergovernmental Panel on Flood Management, it would be defined by as an intergovernmental partnership supporting IFM with the major agencies acting at global level where WMO and GWP could build valuable partnerships to extend the influence of their concepts. It would only be possible if there are sufficient and long term financial resources.

Following discussion, it was agreed on a scenario between 4 and 5 (called “scenario 4.5”) that would allow to integrate communalities and seek synergies between the flood and drought management programs. For the immediate future, the main focus of scenario 4.5 is on development and support to E2E EWSs for flood forecasting and will build on IFM materials already accessible through the APFM. This will therefore translate into:

- Developing material on E2E EWS in the framework of the WMO Flood Forecasting Initiative (FFI), including:
 - Liaising with the GHSF - HydroHub initiative to identify synergies in data collection and management for floods (IFMP may also liaise with the HydroHub similarly for drought management);
 - Integrating interoperable platforms and models developed in the framework of the FFI, as well as other guidance materials (Guidances on Flood Forecasting and Early Warning Systems, Manual on Flood Risk Mapping, guidelines for the evaluation of national capabilities, etc.);

- Providing Help Desk services on water management including floods (emphasizing EWS) and droughts, in coordination with IDMP;
- Maintaining existing IFM material, and ensuring the finalization of items currently under preparation (Tools, publications and planned training workshops);
- Promoting soft marketing, identifying new communication strategies;
- Implementing a new business model for an enlarged and operationally focused program to allow financial sustainability of the APFM.

4. Summary of AC Conclusions and Recommendation on proposed activities for 2016/2017

4.1. Publication and Tools

APFM would give from now on priority to bankable projects/activities. Only commitments for trainings and capacity building taken previously to the AC/MC meeting will be honoured, whereas the rest will need to consider a cost-recovery basis because of the need for implementing a new business model. The same logic will be implemented for training manuals. The AC recommended that activities proceed with the priorities as listed below. The AC welcomed SBPs or donor who wished to assist on lead in the developments of products;

IFM Policy Series

PRIORITY	ACTIVITY
●	“Primer for Integrated Flood Management from Theory to Implementation”
●	“Environmental Aspects of IFM Case Studies”
●	“IFM Concept Paper 4th edition”
●	“Economic Aspects of IFM 2 nd edition”

General points for considerations

●	Track process to know how Tools cover actual needs, expectations and what is their impact
●	APFM will not be engaged with the same level of effort in finalizing publications. The idea is rather to assist the SBP in securing resources necessary for the development of publications, and assist them in showcasing the final result
●	All the editorial process (including the visual identity), however, will not be dealt with by APFM TSU
●	Deltares institute offered to lead the development of a new Tool on Green Infrastructures for FM, linking to the mentioned WWF/USAID publication on “Green Flood Risk Management Guidelines” (provisional title) – GWP is keen to contribute
●	WMO is working to scaling back their responsibility for tool and publication development, by subcontracting to partners. WWF and WMO are considering a joint publication of summary of the FGG with additional case studies as a APFM publication

IFM Tool series published

●	The Role of the Media in IFM
●	Public Perception of Flood Risk and Social Impact Assessment
●	Efectiveness of Flood Management Measures
●	Reservoir Operations and Management Flows 2.1
●	Healt and Sanitation Aspects of Flood Management
●	Technical Assistance for the Preparation on an Advocay Strategy (English and Spanish)

IFM Tool series in the way to be finalized and published

●	The Role of Land-Use Planning in Flood Management - 2 nd edition
●	Organizing Community Participation for Flood Management 2.0
●	Crisis Mapping and Crowdsourcing in Flood Management
●	Flood Emergency Planning - 2 nd edition
●	Loss Assessment Case Studies
●	The Role of Land-Use Planning in Flood Management - 2 nd edition

IFM Tool Series to be initiated

●	Flood Management in a Multi-hazard Environment
●	The Contribution of Geospatial Sciences to Flood Management
●	Rapid Legal Assessment 2 nd edition
●	Green Infrastructures for Flood Management
●	Natural and Nature-Based Flood Management: A Green Guide (FGG)
●	Formulating a (transboundary) Basin Flood Management Plan – 2 nd edition
●	Project Cycle in Flood Management

4.2. Capacity Building

Among the numerous initiatives planned for 2016/2017, the Committee confirmed the following priorities:

Capacity building priorities

PRIORITY	ACTIVITY
●	Develop training manual with the Gender and Water Alliance (GWA) on Gender Issues of Flood Management
●	Develop training modules in Spanish for local Civil Protection authorities in Paraguay (CONAGUA interested to participate and use these modules)
●	Develop IFM training manual based on the review of the feedback collected from SBPs
●	Prepare power point presentations of remaining IFM Tool Series
●	Develop training materials on the Organizing Community Participation for Flood Management tool
●	Develop a action plan on e-learning with TUHH, TUD, UNU-FLORES, University of Geneva and University of Dundee, to enrich the current e-learning webpage on the APFM website with other existing platforms from partner institutions. UNU-FLORES, having strong links with TUD, would therefore encourage building synergies and working collectively on the development of further courses
●	Develop a action plan of training materials for WWF Flood Green Guide (FGG) wherein WWF will consider how the DSS in the Primer might be used in training for the FGG

Specifically concerning planned training workshops, precedence should be given to:

●	West Africa, Training on IFM and Project Preparation in the Volta Basin for relevant authorities, including NMHS, in the 6 riparian countries and basin authority with support of GWP Country and Regional Water Partnerships and GWP/AU WACDEP
●	Montevideo, Uruguay, in the framework of the INTERCOONECTA Plan, RALCEA and AECID, in cooperation with FICH, organize a course on IFM
●	Zurich, Switzerland, lecture on Data collection and use for flood and drought protection in the framework of the ETH Water Resources Seminars

●	Antalya, Turkey, training on Basin Flood Management planning in the framework of IPA-FLOODS with CIMA
●	UNESCO is committing to make use of the training materials in its centers;
●	Mexico, CIMA is going to held ToT for primary school teachers based on APFM materials
●	Discuss needs in support IGAD-HYCOS activities
●	Follow up on IAEA training materials
●	Support to develop “bankable” IFM projects in the Volta basin with GWP Regional and Country and NMHS
●	Support PEARL – Preparing for Extreme and Rare events in coastal regions (with UNESCO-IHE, TUHH, Euroaquae, DHI, ICHARM nad others)
●	Review the Community Based Flood Management (CBFM) in Thailand and Lao
●	Instrument for Pre Accession (IPA) and Horizon 2020 support to consortia
●	Support the PRONACH in Mexico
●	Enhance linkages with GFCS, CIFDP, FFGS and SWFDP – Flood Forecasting Initiative
●	Seek synergies with RA II and other WMO activities (e.g. WGH-RA III, Malawi/GFCS, DRR, GHSF, TCP, CIFDP/Bangladesh) – especially DRR.
●	Follow developments on CBFM in Iowa State and FLODDSS – DHI, Deltares, CIMA, PoliMi, UNU-FLORES should be involved in discussion
●	Seek funding opportunities for transboundary issues in the Dniester and other activities
●	Support GWP Caribbean by providing knowledge products on flood management
●	Support GWP South-Asia, S-E Asia, in issues related to community-based flood management
●	Support GWP Regions in Asia to develop work stream on flood management
●	Support GWP Central Africa and Lake Chad Basin Commission for early warning system project preparation in Logone basin (part of Lake Chad basin)
●	Feedback on the Limpopo Disaster Preparedness Action Plan 2016-2030 through GWP Southern Africa
●	Enhance WMO urban cross-cutting issues
●	Support IFM in the Amur River Basin and in Siberia
●	Support China through GWP China in adopting IFM planning and practices

4.3. Outreach

Among the numerous initiatives planned for 2016/2017, the Committee confirmed the following priorities:

PRIORITY	ACTIVITY
●	Support Base Partners: Possible collaboration and cross-promotion with SBPs with an active social media presence
●	Draw attention to existing tools and publications
●	Catalogue of Services
●	Engage Palais de Nations press corps
●	Try to involve the diplomatic environment to advocate for IFM
●	Continue the publication of the Newsletter (3 issues per year)
●	Consider to increase the Social Media (e.g. Facebook, Twiter) activity to increase the APFM visibility

●	Develop short videos devoted to non-technicians (elevator speeches)
●	Participate and advocate for the concept of IFM at the following International events
●	Consider having materials/webpages translated in Spanish and French
●	Consider advertising HelpDesk available facilities in Spanish and French as well
●	Try to track keywords leading to APFM website
●	Volunteering SBPs to act as outreach antennas in their region/country
●	Try to link the Repository of know-how assembled by BoM on Flash Floods to the HelpDesk
●	SBPs should share relevant information with Outreach Officer regarding ongoing/future activities, particularly when this involves use of APFM materials
●	Include in the catalogue of services findings from the Tour de Table
●	UN-HABITAT III, joint session with UNESCO-IHP (APFM to provide materials)

4.4 Other Matters

Zoï Environment Network – an APFM HelpDesk member – is involved into implementation of the projects related to flood and water resources management in transboundary river basins in Eastern Europe in Central Asia. The achievements in 2016 included elaboration of the adaptation frameworks for the Dniester and the Neman river basins; preparation of the assessment on water-food-energy nexus in the Syr Darya river basin. In 2016 Zoï became a member of Swiss NGO DRR Platform and contributed to the elaboration of the e-learning course on disaster risk reduction and climate change adaptation.

Zoï Environment Network proposed to send updated information regarding its training activities in the Dniester river basin.

5. Selection of SBPs for Management Committee meeting

DHI and ADPC were chosen by SBPs to co- represent the Support Base Partners in the MC meeting.

PART II MANAGEMENT COMMITTEE

The Management Committee meeting took place on 13th September 2016 starting at 13:30. The meeting was chaired by Mr Torkil Jønch Clausen. The MC noted with satisfaction the ability of the APFM to realize the numerous activities recommended for 2015/2016.

6. Review of progress on implementation of APFM activities for the year 2015/2016

The Committee confirmed the comments and recommendations formulated by the AC.

7. Financial report for the period August 2014 – December 2015

The 2015 Financial has been approved by the 2016 MC. For the next MC in 2017, the Annex IV should be modified; currently, the table used is too detailed hindering its understanding. To be more clear in the future, it could be better to concentrate all the efforts in gathering the outputs. Furthermore, the financial report should take into account the cost of SBP contribution as in-kind contribution, estimated at 1000 CHF per person day.

8. LogiFrame update

In 2014, the MC decided to start using the LogiFrame, i.e. Annex II. This frame presents a high number of indicators some of which are interesting and others are difficult to understand and follow. In the framework of the next MC, it is therefore proposed to simplify the LogiFrame reducing the reporting indicators and identifying compatibilities with the Financial report.

9. Establishment of budget for 2016/2017

The MC took note of the fact that the proposed budget for 2016 has already largely been implemented. Regarding the budget for 2017, the MC requested the budget to better reflect the new proposed business model, allocating additional resources to the support of national and regional activities. These resources, insufficient to implement even a single pilot project in the field, will be employed to create opportunities for funding further activities, such as preliminary assessment visits and development of project proposals. The new budget is attached as annex III.

10. Staffing situation including secondments

The APFM Staffing situation has been improved over 2016 with the arrival of a Junior Professional Officer, in October 2015, a new Communication Officer, in May 2016, and three interns (the longest for a period of eight months) from September 2015 to October 2016. Another intern is expected to start in November 2016. The TSU will be completed with a Project Officer, who will join in December 2016. In the light of the aforementioned, the situation of the TSU in 2017 seems to be better compared with the previous period.

11. Funding issues

The search for a new business model has been necessary since there is no external donors. The model 4.5 has been defined as the best solution to adopt.

12. Closing remarks from Chair

The Chair thanked all participants for attending both the AC/MC meetings and for their valuable suggestions and advancement. The MC meeting adjourned on 13th September 2015 at 17:30.

ANNEXES

ANNEX I List of Participants

Name	Position	Institution	Email
Torkil Jønch-Clausen	Senior Advisor	GWP Secretariat, Drottninggatan 33, SE- 11151 Stockholm, Sweden	tjc@dhigroup.com
Rudolph Cleveringa	Executive Secretary	Global Water Partnership (GWP)	rudolph.cleveringa@gwp.org
Harry Lins	President	Commission for Hydrology, WMO Switzerland	chy.president@gmail.com
Caroline Wittwer	Scientific Officer	BRGM-Geological Survey, 3 avenue Claude Guillemin, 45060 Orléans, France	c.wittwer@brgm.fr
Curt Barrett	Hydrometeorological Hazard Advisor	USAID Office of U.S. Foreign Disaster Assistance, USA	cubarrett@usaid.gov
Abou Amami		UNESCO-IHE	a.amami@unesco.org
Alasdair Hainsworth	Chief	Disaster Risk Reduction Services Division, WMO	ahainsworth@wmo.int
Andrew Allan	Senior Lecturer in National Water Law	University of Dundee, Centre for Water Law, Policy and Science, UK	a.a.allan@dundee.ac.uk
Angel Luis Aldana	Consultant	PROHIMET	angel.l.aldana@prohimet.org
Arthur Askew	Former President	IAHS	arthuraskewge@bluewin.ch
Aslam Perwaiz	Head	Disaster Risk Management System, Asian Disaster Preparedness Centre (ADPC), Thailand	aslam@adpc.net
Cees van de Guchte	Director Climate Adaptation & Risk Management	Deltares, the Netherlands	cees.vandeguchte@deltares.nl
Dasarath (Jaya) Jayasuriya	Assistant Director	Water Forecasting, Hazards Forecasting and Warning, Australian Bureau of Meteorology, Australia	d.Jayasuriya@bom.gov.au
Eddy Moors	Professor	Wageningen UR, the Netherlands	eddy.moors@wur.nl
Firas Al Janabi	Group Leader	TU Dresden	firas.ALJanabi@TU-dresden@de
Francesco Ballio	Professor	Politecnico di Milano, Italy	francesco.ballio@polimi.it

Gabriele Quinti	Director	Center for Research and Documentation February '74 (CERFE),	gabriele.quinti@cerfe.org gabriele.quinti@gmail.com
Giorgio Boni	Expert Advisor	CIMA, Italy	giorgio.boni@cimafoundation.org
Harry Dixon	Senior Hydrologist	Centre for Ecology and Hydrology (CEH), UK	harr@ceh.ac.uk
Henriette Tamasauskas	Vice President	Danish Hydraulic Institute (DHI),	htt@dhigroup.com
Lesya Nikolayeva	Project Manager	Zoi Environment Network,	lesya.nikolayeva@zoinet.org
Mamoru Miyamoto	Research	ICHARM, Japan	mmyamoto@pwri.go.jp
Mario Schreider	Professor	FICH/UNL, Argentina	mschreider@gmail.com
Philippe Ramet	Advisor	Permanent Mission of France, Switzerland	philippe.ramet@diplomatie.gouv.fr
Sezin Tokar	Senior Hydrometeorological Hazard Advisor	USAID Office of U.S. Foreign Disaster Assistance, USA	vaellen@geosec.org
Umberto Dosselli	Scientific Officer	Permanent Mission of Italy Switzerland	ginevraonu.scienza@esteri.it
Vanessa Aellen	Secretariat expert	GEO, Switzerland	vaellen@geosec.org
Vessela Monta	Executive Director	International Rainwater Harvesting Alliance (IRHA), Switzerland	vessela@irha-h2o.org
Wolfgang Grabs	Chief, International Water Affaires	Federal Institute of Hydrology, Koblenz, Germany	grabs@bafg.de

WMO Representatives

Paul Pilon	Head Chief	APFM Technical Support Unit Hydrological Forecasting and Water Resource Division	ppilon@wmo.int
Frederik Pischke	GWP Focal Point for the APFM and IDMP	Global Water Partnership APFM Technical Support Unit IDMP Technical Support Unit	frederik.pischke@gwp.org
Giacomo Teruggi	Scientific Officer	Hydrological Forecasting and Water Resources Division	gteruggi@wmo.int
Maud Poissonnier	Junior Professional Officer	APFM Technical Support Unit	mpoissonnier@wmo.int
Veronica Ruiz	Intern	APFM & IDMP Technical Support Unit	vruiz@wmo.int

ANNEX II

Provisional Agenda for the Advisory Committee Meeting

12-13 SEPTEMBER 2016

WMO Secretariat, Geneva

Meeting Room: Press Room (ground floor, lake side)

7 bis, avenue de la Paix, Geneva, Switzerland

Day One: **Monday 12 September 2016**

Time	Activities
09:00-09:15	Welcome, self-introduction and adoption of agenda
09:15-10:00 (0:45 hr.)	1) Review of APFM activities for the year 2015/2016 and proposed activities for the year 2016/2017 <ul style="list-style-type: none">• General overview• Publicatons:<ul style="list-style-type: none">○ IFM Tools, Integrated Flood Management (IFM) Policy Series and Training Manuals
10:00-10:30	Tea/Coffee break
10:30-12:30 (2:00 hr.)	<ul style="list-style-type: none">• HelpDesk:<ul style="list-style-type: none">○ Overview○ Trainings○ National and Regional Support Activities○ Proposed Activities
12:30-13:30	Lunch Break
13:30 – 15:30 (2:00 hr.)	<ul style="list-style-type: none">• Outreach<ul style="list-style-type: none">○ International events○ Articles and other outreach activities○ Website and social networks○ Catalogue of Support Base Partners○ Proposed activities
15:30-16:00	Tea/Coffee break
16:00-18:00 (2:00 hr.)	<ul style="list-style-type: none">• APFM Review<ul style="list-style-type: none">○ Results of the 15 year' activities review of the APFM
From 18:30 onwards	Informal get-together (venue tbd)

Day Two: 13th September 2016	
Time	Activities
9:00-10:30 (1:30 hr.)	2) Review of Critical Issues and Strategic Possibilities <ul style="list-style-type: none"> ○ The HelpDesk as a facility to support E2E Flood Forecasting ○ Getting donors involved – proposals of new business models from the APFM review
13:00 - 11:00	Tea/Coffee Break
11:00 – 12:00 (1:00 hr.)	3) Summarized and Recommended Priorities of Proposed Activities 2016 - 2017 4) Selection of SBPs for Management Committee meeting 5) Wrap up of Advisory Committee meeting Concluding remarks from Chair

Provisional Agenda for the Management Committee Meeting

13 SEPTEMBER 2016

WMO Secretariat, Geneva

Meeting Room: Press Room (ground floor, lake side)

Day Two: Tuesday Afternoon 13 September 2016

Time	Activities
13:30 – 15:30 (2:00 hr.)	1) Review of Progress on implementation of APFM activities for the year 2015/2016 2) Financial report for the period August 2014 – December 2015 3) LogiFrame update (Result Based Framework) 4) Establishment of budget for 2016 and 2017 5) Oversight recommendations from MC 6) Consideration of action plan for the year 2016/2017 as recommended by the AC meeting
15:30-16:00	Tea/Coffee break
16:00 – 17:30 (1:30 hr.)	7) Staffing situation including secondments and liaison with IDMP 8) Other Business 9) Closing Remarks from Chair

ANNEX III – APFM Budget

APFM Budget [1 Jan 2017 - 31 Dec 2017] (foreseen availability at 1 Jan 2017: 260,000 CHF)						
Item	Description		APFM Trust Fund (CHF)	WMO Budget (CHF)	GWP Direct Budget* (CHF)	TOTAL budgeted (CHF)
1	IFM Policy series and Tools	Total	5,000	22,271		27,271
		Discretionary costs	5,000			5,000
		Staff cost		22,271		22,271
2	Capacity building	Total	5,000	84,885	9,356	99,241
		Discretionary costs	5,000		4,360	9,360
		Staff cost		84,885	4,996	89,881
3	Support to national and regional activities	Total	125,000	136,328	34,380	295,708
		Discretionary costs	125,000		16,895	141,895
		Staff cost		136,328	17,485	153,813
4	Dissemination of information	Total	30,000	64,482		94,482
		Discretionary costs	30,000			30,000
		Staff cost		64,482		64,482
5	APFM administration	Total	15,000	66,692	10,764	92,456
		Discretionary costs	15,000		3,270	18,270
		Staff cost		66,692	7,494	74,186
TOTAL			180,000	374,658	54,500	609,158