

## **ASSOCIATED PROGRAMME ON FLOOD MANAGEMENT**



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FLOOD MANAGEMENT**

### **DRAFT REPORT ADVISORY COMMITTEE AND MANAGEMENT COMMITTEE MEETINGS**

7-8 September 2015  
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).

## TABLE OF CONTENTS

	ACRONYMS	4
<b>PART I</b>	<b>ADVISORY COMMITTEE</b>	<b>6</b>
1.	Opening	6
2.	Review of APFM Activities for the year 2014/2015 and proposed activities for the year 2015/2016	6
2.1	<i>Governance</i>	6
2.2	<i>Publications</i>	7
2.3	<i>Capacity building</i>	9
2.4	<i>APFM Outreach</i>	10
3.	Critical Issues and Strategic Possibilities	11
4.	Summary of Conclusions and Recommendations	15
5.	Wrap up of Advisory Committee meeting	19
6.	Selection of SBPs for Management Committee meeting	19
<b>PART II</b>	<b>MANAGEMENT COMMITTEE</b>	<b>20</b>
7.	Review of progress on implementation of APFM activities for the year 2014/2015	20
8.	Financial report for the year 2014/2015 and shifting of fiscal year	20
9.	Liaison with IDMP	20
10.	Staffing situation including secondments	20
11.	Funding issues	20
12.	Closing remarks from Chair	21
		<b>22</b>
<b>ANNEXES</b>		
<b>ANNEX I</b>	<i>List of Participants</i>	<b>22</b>
<b>ANNEX II</b>	<i>Provisional Agenda for the Advisory Committee Meeting</i>	<b>26</b>
	<b>FIGURES</b>	
<b>Figure 1</b>	<i>APFM's Key Strategic Areas</i>	<b>7</b>
<b>Figure 2</b>	<i>GFCS concept</i>	<b>12</b>

## ACRONYMS

AC/MC	Advisory Committee/Management Committee
ADPC	Asian Disaster Preparedness Center
APFM	Associated Programme on Flood Management
BfG	German Federal Institute of Hydrology
BoM	Bureau of Meteorology (Australia)
CapNet/UNDP	Capacity Development in Sustainable Water Management/UNDP
CBFM	Community Based Flood Management
CERFE	Centro di Ricerca e Documentazione Febbraio '74
CHy	Technical Commission for Hydrology
CIFDP	Coastal Inundation Forecasting Demonstration Project
CIMA	Centro Internazionale in Monitoraggio Ambientale
CONAGUA	Comisión Nacional del Agua
COP	Convention of the Parties
DHI	Danish Hydraulic Institute
DRR	Disaster Risk Reduction
EuroAqua	Euro-Informatics and Water management
FFGS	Flash Flood Guidance System
FICH	Facultad de Ingeniería y Ciencias Hídricas
FOEN	Federal Office for the Environment of Switzerland
GFCS	Global Framework for Climate Services
GWA	Gender and Water Alliance
GWP	Global Water Partnership
HOMS	Hydrological Operational Multipurpose System
ICFM6	International Conference on Flood Management 6
ICHARM	International Centre for Water Hazard and Risk Management
ICID	International Commission on Irrigation and Drainage
IDMP	Integrated Drought Management Programme
IFI	International Flood Initiative
IFM	Integrated Flood Management
IPA	Instrument for Pre-Accession Assistance
ISRBC	International Sava River Basin Commission
IUFM	Integrated Urban Flood Management
IUWM	Integrated Urban Water Management
IWRM	Integrated Water Resources Management
NAPs	National Adaptation Plans
NGO	Non-Governmental Organization
NMHSs	National Meteorological and Hydrological Services
PEARL	Preparing for Extreme And Rare events in coastal regions
PRONACCH	Programa Nacional Contra Contingencias Hidráulicas
Q&A	Question and Answer
RALCEA	Red latinoamericana de centros de conocimiento en el sector del agua
SBP	Support Base Partner
SDC	Swiss Agency for Development and Cooperation
SDGs	Sustainable Development Goals
SIWI	Stockholm International Water Institute
SWFDP	Severe Weather Forecasting Demonstration Project
TSU	Technical Support Unit
TUD	Technische Universität Dresden
TUHH	Technische Universität Hamburg-Harburg

UNECE	United Nations Economic Commission for Europe
UNESCO-IHE	UNESCO Institute for Water Education
UNFCCC	United Nations Framework Convention on Climate Change
UNISDR	United Nations Office for Disaster Risk Reduction
UNOSAT	United Nations Operational Satellite Applications Programme
USAID	United States Agency for International Development
VBA	Volta Basin Authority
WMO	World Meteorological Organization
WP7 of PEARL	Work Packages 7 of PEARL
WWF	World Wildlife Fund
WWW	World Water Week

## PART I      ADVISORY COMMITTEE

### 1.      Opening

The meeting of the Advisory Committee (AC) of the Associated Programme on Flood Management (APFM) opened on the 7th September 2015 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 Chair welcomed the participants, appreciating the large turnout as a sign of interest in the programme and its activities. Reiterating the Chair's recognition of the effort made by partners to attend the meeting, Mr Claudio Caponi, Officer in Charge of the Hydrology and Water Resources Branch of WMO, on behalf of WMO Secretary General, thanked Mr Rudolph Cleveringa, GWP Acting Executive Secretary, and the donors for their continued support to the APFM. He noted that this confirms the great attention given at the international level to the topic of floods, as shown by its recent inclusion in the draft SDGs on water and disasters. Finally, Mr Paul Pilon, Head of the Technical Support Unit (TSU) of the APFM, presented the programme's team, wished the participants fruitful discussions and expressed his interest in the development of recommendations for consideration by the Management Committee (MC).

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

### 2.      Review of APFM Activities for the year 2014/2015 and proposed activities for the year 2015/2016

Presentations of APFM activities for the period 2014/2015 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 2016. 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.

#### 2.1      Governance

The APFM Technical Support Unit presented the APFM Strategic Plan 2014-2018 developed as a follow up to the MC meeting in 2014. The Strategic Plan aims to lead the APFM through its fourth Phase. The strategy is centred on the recommendation from the 2014 APFM AC/MC meeting to mainstream Integrated Flood Management (IFM) into policy and practice by focusing on supporting countries in the implementation of Integrated Flood Management.

In order to achieve that, three key strategic areas were identified (see Figure 1):

- Help countries maximize net benefits and minimize loss of life in floodplains;
- Advance the development of the IFM approach; and
- Sustain an effective and well governed programme with active partners.

These areas are aligned with both WMO and GWP guiding principles and they mark the way in which APFM aims to fulfil its tasks, by collecting, disseminating, and helping implement knowledge on the IFM approach. This is achieved through cooperation with National Meteorological and Hydrological Services (NMHSs), GWP Regional and Country Water Partnerships, national risk management and planning authorities, and SBPs organizations.

The focus of the APFM Phase IV was agreed upon during the 2014 APFM AC/MC meeting as being, mainstreaming IFM into Policy and Practice, produce guidance materials, and maintain services provided through the HelpDesk. This will be achieved primarily by:

- Increased involvement in the policy field (to advocate IFM among decision makers);
- Development of a Primer acting as an umbrella for the IFM Tool Series to facilitate mainstreaming IFM concept into practice;
- Strengthening the IFM Tool Series by revising existing ones and developing select new ones;
- Reinforcing the existing APFM network and identifying new opportunities for cooperation through the implementation of the APFM communication strategy (by the dedicated communication officer);
- Building on Support Base Partners (SBPs), GWP and the WMO Technical Commission for Hydrology (CHy) to fulfil HelpDesk requests (to augment the limitations based on available TSU resources); and
- Fostering more projects by bringing potential donors to the table.

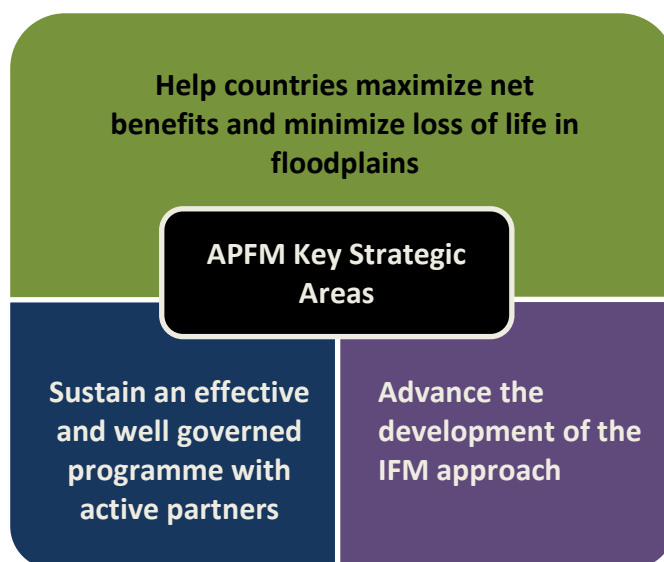


Figure 1- APFM's Key

Strategic Areas

## 2.2 Publications

The AC reviewed the publications produced in 2014/2015 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.



## **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” – noting that the Primer will not be part of the IFM Tool series, nor of the Policy Papers, but rather a guidance to the reader wishing to move from the IFM Concept (illustrated through the Policy Series) to the specific implementation of IFM options (as those presented in the IFM Tools series). A detailed table of contents is annexed to this report for clarity;
- “Environmental Aspects of IFM Case Studies” – the TSU clarified that a contract to the designated consultant has been issued and the work will start in October 2015;
- “IFM Concept Paper 4th edition” – Minor changes only (e.g. add definition of “resilience”);
- “Economic Aspects of IFM 2<sup>nd</sup> edition” - Revision still needed, but would require identification of experts.

## **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, 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.

### General points for considerations:

- Ensure cross-references between Tools and explicit reference to the HelpDesk;
- Develop a map of Tools for inclusion in the HelpDesk;
- Including and enhancing use of landscape as non-structural measure in the IFM Tool series (e.g. the World Wildlife Fund (WWF)/ United State Agency for International Development (USAID) publication);
- 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;
- Develop a process of incorporating third parties publications into APFM Helpdesk (e.g. the WWF/USAID);
- Include gender issues in all relevant Tools (particularly Health and Sanitation); and
- 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.

### IFM Tools being finalized and published:

- Social Impact Assessment and Public Perception of Flood Risk (undergoing layout, in English and French);
- The Role of the Media in IFM (undergoing layout);
- Effectiveness of Flood Management Measures (undergoing layout);
- Reservoir Operation and Managed Flows - version 2.1 (undergoing layout);
- Health and Sanitation Aspects of Flood Management (undergoing layout);
- Asistencia técnica para al preparación de una estrategia de incidencia política (Science-Policy Interface) (undergoing layout, in English and Spanish);

### IFM Tools being finalized in terms of content:

- Laws, Regulations and Technical Standards for Flood Management;
- Organizing Community Participation for Flood Management (expected in November);
- The Role of Land-Use Planning in Flood Management - 2<sup>nd</sup> edition (expected in December);
- Crisis Mapping and Crowdsourcing in Flood Management (expected in 1st quarter 2016);

- Project Cycle in Flood Management – to be developed as part of IFM Project Preparation Initiative in West Africa (likely to be a manual);
- Flood Management in a Changing Climate - 2<sup>nd</sup> edition (expected in November);
- Loss Assessment Case Studies (expected in December).

#### **IFM Tools to be initiated:**

- Flood Management in a Multi-hazard Environment:
  - BfG and (CHy) volunteered to assist in the development - TSU to send them the available draft;
  - Tool to include multi-hazards perspective, with reference to PEARL and the publication *Comprehensive Risk Assessment for Natural Hazards*<sup>1</sup>;
  - 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 2<sup>nd</sup> edition – University of Dundee volunteered to take the lead;
  - Formulating a (transboundary) Basin Flood Management Plan – 2<sup>nd</sup> edition;
  - Governance Issues in Flood Management – Deltares institute to inquire (cc: Federal Institute for Hydrology (BfG)) with UNESCO-IHEon developing a new tool, coping BfG and CIMA on correspondence. BfG is to consider its possible involvement , as is CIMA;
  - Historical Approaches and Coping Strategies for Flood Management –USAID to provide TSU materials through HOMS and from the “lessons learnt” workshop held in January 2015;

WMO Mexico Project Office offered to consult with CONAGUA regarding possible additional support in the development or translation of APFM materials into Spanish. The AC appreciated this consideration and suggested that initial emphases be possible by given to translation of the main landing page.

### **2.3 Capacity building**

The AC recommended that the TSU proceed with the implementation of the proposed undertakings, according to the following order of priority:

- Develop training manual with the Gender and Water Alliance (GWA) on Gender Issues of Flood Management;
- Develop e-learning materials on the role of Land Use Planning in Disaster Management with the World Bank;
- Develop training modules in Spanish for local Civil Protection authorities in Paraguay (CONAGUA interested to participate and use these modules);
- Prepare Power Point presentations on remaining IFM Tool Series – University of Dundee and Geneva volunteered for the topics of transboundary flood management and legal assessment tools;
- Add Integrated Urban Flood management (IUFM) module to GWP/University of South Florida training course on Integrated Urban Water Management (IUWM) – CapNet volunteers to lead on behalf of APFM the development of IUFM module with materials taken from the existing APFM urban flood management training materials;
- Finalize IFM Training Manual with CapNet. DHI, BfG, ADPC and BoM offered to act as reviewers<sup>2</sup>.
- Finalize CBFM Training Manual with ADPC;
- BoM to contribute in 2016 with modules on competency-based trainings for flood forecasters;

<sup>1</sup> WMO, 2006: *Comprehensive Risk Assessment for Natural hazards*, Document No. 955. World Meteorological Organization, Geneva. Available at: [http://www.planat.ch/fileadmin/PLANAT/planat\\_pdf/alle\\_2012/2006-2010/Melching\\_Pilon\\_2006\\_-\\_Comprehensive\\_Risk\\_Assessment\\_for\\_Natural.pdf](http://www.planat.ch/fileadmin/PLANAT/planat_pdf/alle_2012/2006-2010/Melching_Pilon_2006_-_Comprehensive_Risk_Assessment_for_Natural.pdf)

<sup>2</sup> Colour coding was changed from yellow to green given the positive response of SBPs to reviewing and finalizing the CapNet manual.

- Develop action plan on E-learning with TUHH and TUD – teleconferences to follow, to enrich the current e-learning webpage on the APFM website with other existing platforms from partner institutions;
- University of Geneva to add transboundary issues of FM modules to their training platform, in cooperation with University of Dundee;

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

- West Africa – project preparation on IFM with the NMHSs and the Regional and Country GWP network;
- Montpellier – in the framework of the ICID conference;
- Argentina – Master course on IFM with FICH – University of Santa Fe;
- Zagreb – with UNESCO, for the International Sava River Basin Commission (ISRBC);
- Thun – Swiss NGO Platform on IFM.

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

- Support to the PRONACCH in Mexico - with CONAGUA;
- Continue to implement Work Packages 7 (WP7) of Preparing for Extreme And Rare events in coastal regions (PEARL) – with UNESCO Institute for Water Education( UNESCO-IHE), Technische Universität Hamburg-Harburg (TUHH), Euro-Informatics and Water management (EuroAqua), Danish Hydraulic Institute (DHI), International Centre for Water Hazard and Risk Management (ICHARM) and others;
- Continue to implement the project on Community Based Flood Management (CBFM) in Thailand and Lao PDR - with ADPC;
- Seek funding opportunities for Implementation of IFM strategies in West Africa;
- Enhance linkages with Global Framework for Climate Services (GFCS), Coastal Inundation Forecasting Demonstration Project( CIFDP), Flash Flood Guidance System (FFGS) and Severe Weather Forecasting Demonstration Project (SWFDP);
- CIMA proposed to have APFM involved in training activities in the framework of the Instrument for Pre Accession ( IPA) for the Balkans to which APFM contributed in very early stages (July 2014);
- Follow developments on CBFM in Iowa State;
- Support IFM in the Amur River Basin and in Siberia;
- Support China GWP in the adoption of IFM;
- Support GWP Caribbean by providing a starting point and information resource for future Caribbean IFM demonstration projects;
- Continue the development of coastal flood management project in Bangladesh;
- Seek funding opportunities for the development of a project on transboundary flood management in the Dniester – Zoï Environment Network to keep APFM informed about any further activities

The TSU was also invited to keep providing technical support on IFM in transboundary contexts in close cooperation with the UNECE Water Convention. Additionally, the APFM was proposed to become a partner to SIWI Action Platform for Source to Sea Management related to coastal flood management.

In light of the strict policy of WMO in relation to joining consortia for European Call for Proposals, such as Horizon 2020 or IPA, broader consideration should be given to alternative approaches to access these calls. GWP offered to act as a platform for this.

Overall, the TSU was invited to stimulate and seek occasions for South-South (as well as North-South) cooperation on IFM, such as new partnerships with regional entities acting as ambassadors of the IFM concept (e.g. RALCEA network, River Basin Organization, National and Regional Water Partnerships, etc.).

## 2.4 APFM Outreach

The Advisory Committee discussed the APFM outreach activities and made the following recommendations:

### **Linkages with GWP network and cooperation with Support Base Partners**

The AC exhorted the SBPs to ensure that their websites have direct linkages to the APFM website and encouraged them to present/promote the APFM tools and publications in their meetings, workshops and conferences.

WMO, GWP and SBPs shall cooperate more closely in co-organizing seminars and side events at international conferences to promote and share experiences on activities of the APFM on implementing IFM. Moreover, the Advisory Committee suggested strengthening linkages between the TSU and the GWP Communication Office as an option to coordinate the respective communication strategies and outreach efforts.

### **Dissemination of information**

The Committee endorsed the list of activities proposed for 2015/2016, acknowledging the priorities highlighted by the TSU, and recommended to:

- Continue the publication of the Newsletter (3 issues per year);
- Participate and advocate for the concept of IFM at the following International events:
  - World Water Week 2015 (WWW 2015), 23-28 August 2015, Stockholm, Sweden;
  - UN High level events on DRR and SDGs on water-related disasters;
  - COP21, 30 November-11 December 2015, Paris, France ;
  - Seventh Meeting of the Parties to the UNECE Water Convention, 17-19 November 2015, Budapest, Hungary;
  - Flood Risk 2016 conference, 17-21 October 2016, Lyon, France,;
  - Other non-water-related events, such as economic, humanitarian, migration, and technical events;
- WMO to promote the HelpDesk at its Regional Meetings;
- Circulate the Catalogue of Services template among SBPs;
- Include the Catalogue of Services in the HelpDesk and develop paper information material (for instance, a folder containing a general brochure and SBPs factsheets);
- Ensure conformity of APFM website with smartphone technologies
- Verify that the APFM website is accessible from China;
- Articles and other outreach activities: increase presence in external newspapers, newsletters, websites;
  - Floodlist.com;
  - D-AEP.org;
- Others: produce a new APFM roll-up banner;

Considering that monitoring the exact number of downloads of APFM publications is technically not possible, the TSU was requested to investigate impacts of past APFM activities through other means. Based on the results of the assessment, impact stories could be developed and disseminated through the websites of the APFM and other partner organisations.

The Committee suggested, for future annual reports, that HelpDesk requests be counted as a single category, as opposed to the current three (requests received through the website, through personal

contacts, or through WMO or GWP contacts). This would help highlight the wide success of the HelpDesk facility, and increase the visibility of contributing made by SBPs and others.

### 3. Critical Issues and Strategic Possibilities

#### The HelpDesk as a GFCS Water User Interface

The suggestion was made that the HelpDesk could be broadened there by becoming using the GFCS platform for the climate and water communities to address climate service needs in the implementation of Integrated Water Resources Management in the context of climate variability and change. This would help strengthen existing capacities on flood management using climate services; it was felt that this should be pursued with a focus on increasing funding to the APFM to broaden HelpDesk function ability.

This concept is part of the Operational and Resource Plan of GFCS. The Advisory Committee endorsed the development of inputs to the above mentioned Operational and Resource Plan of GFCS, in particular, including the IFM HelpDesk as part of the GFCS User Interface Platform on water.

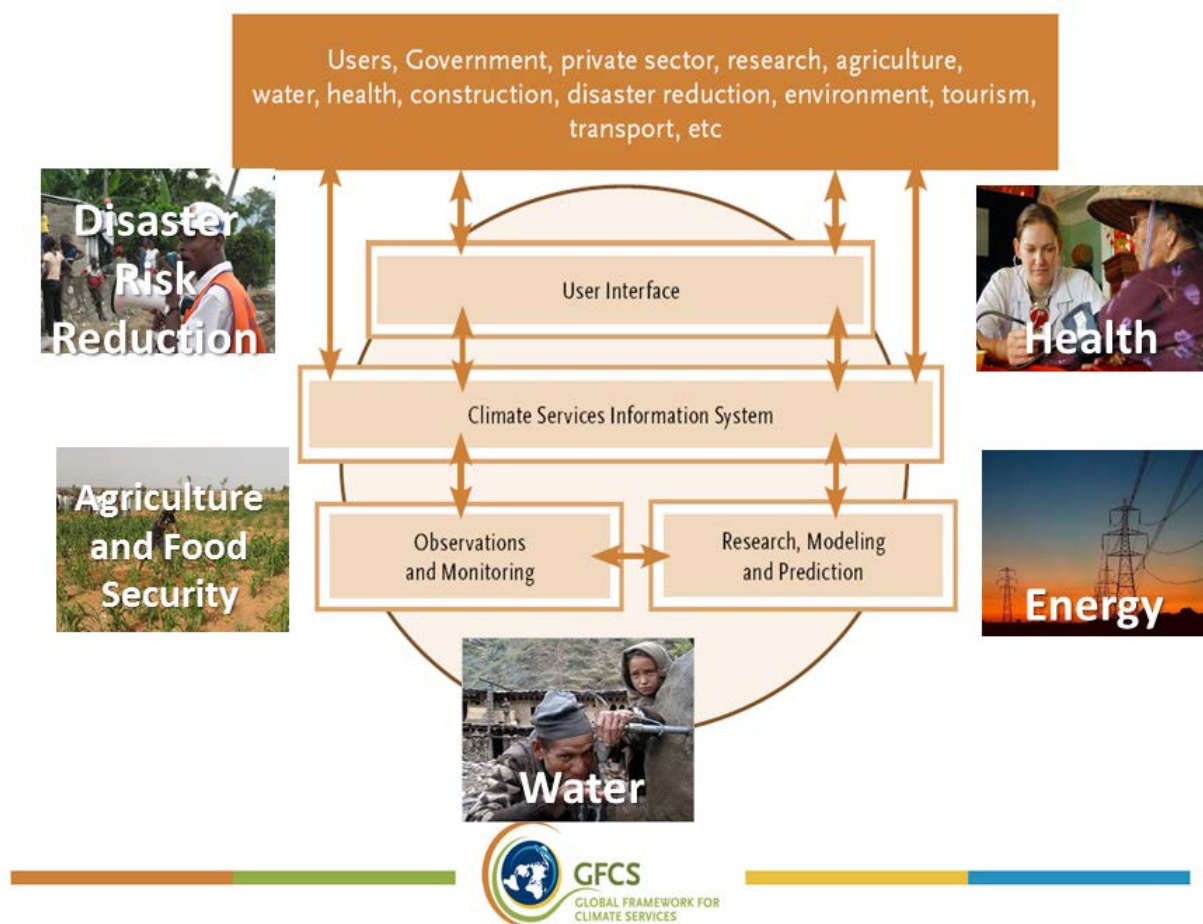


Figure 2: GFCS concept

The Technical Support Units of APFM and IDMP would guide the implementation of GFCS water activities through:

- Informing relevant policy development;
- Supporting development of existing and new national and regional projects/programmes;

- Developing technical guidance by developing guidelines and tools on water-climate services;
- Sustaining a dialogue between the water and climate community on climate services; and
- Providing a platform for cooperation with partners;

### **Synergies between APFM and IDMP**

The AC agreed that synergies between both programmes can be developed based on the complementarity of their basic principles, notwithstanding the different approaches to deal with them and the different actors involved. To better explore opportunities for cooperation, it was proposed to have a joint one-day meeting among the APFM and IDMP partner organisations on a date between the AC/MC meetings of the two programmes. The following points were raised during the discussions:

- Concepts of IFM and IDM are based on the principles of Disaster Risk Management and Integrated Water Resources Management. There is a common approach of dealing with climate extremes yet operational responses obviously differ.
- Both the IDMP and APFM promote an approach that moves :
  - From reactive/emergency actions to a pro-active disaster risk management ;
  - From ad-hoc to an Integrated Approach;
  - Towards a culture of prevention by managing flood risk and living with floods;
  - The decision making processes to include risk management and participatory approach; and
  - Flood risk management as major tenant in achieving sustainable development.
- Furthermore there are similarities and potential synergies between the IFM HelpDesk and an IDM HelpDesk, once it is developed. These include:
  - Providing entry points;
  - Bundling expertise – “Clearinghouse”; and
  - Promoting a spirit of collaboration.
- Droughts and floods frequently happen at the same location at different times. Flood management measures can also help to mitigate drought with a good example being the Small Water Retention Measures implemented by the IDMP in Central and Eastern Europe provides.

### **Post-2015 Development Landscape**

#### **Sendai Framework for DRR**

The APFM and IDMP have been involved in the Sendai process through:

- Development of two briefs on Water and Disaster Risk informing consultation leading to the conference;
- Statement highlighting IFM and IDM approach at the second Preparatory Commission;
- One session in the official programme in Sendai on “Integrated Water Resources Management” co-led by WMO, GWP and UNESCO with broad involvement of partners;

The Sendai Framework for Disaster Risk Reduction aims to reduce substantially disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries. Its goal is to prevent new - and reduce existing - disaster risk through the implementation of integrated measures inclusive of economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional . This would be achieved also by an increase aspects focus on preventing taking measures to reduce exposure to risk prior to the onset of event and in preparedness for response and recovery, activities thereby strengthening societal resilience.

This integrated approach focusing on prevention and reduction of existing disaster risk is a strong entry point for the APFM, particularly considering the Sendai framework’s four priority areas:

**Priority 1:** Understanding disaster risk;

**Priority 2:** Strengthening disaster risk governance to manage disaster risk;

**Priority 3:** Investing in disaster risk reduction for resilience; and

**Priority 4:** Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction; enhancing the role of stakeholders, international cooperation and global partnerships.

However, it has to be noted that water issues unfortunately do not figure prominently in the Sendai Framework for Disaster Risk Reduction.

### **Sustainable Development Goals New York September 2015**

Water issues are prominently featured in SDG 6. Flood related issues are mentioned in several SDG targets, most notably target 11.5.

An overview of water and flood management issues that play a role in various SDGS is given below.

#### **Goal 1. End poverty in all its forms everywhere**

1.5 By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters

#### **Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture**

2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality

#### **Goal 6. Ensure availability and sustainable management of water and sanitation for all**

6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all.

6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations.

6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally

6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity.

6.5 By 2030, implement integrated water resources management at all levels, including through trans boundary cooperation as appropriate.

6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes.

6.a By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies.

6.b Support and strengthen the participation of local communities in improving water and sanitation management.

#### **Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable**

11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by

disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations

**Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss**

15.3 By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world

Linkages between all the SDGs and the topic of flooding were noted; hence, there is an opportunity for the APFM to position itself in the post-2015 landscape.. It was however noted that the discussion on indicators will not be concluded by March 2016.

In this spirit, other processes have been discussed by the Advisory Committee. These include:

- Financing for Development Summit, Addis Ababa, July 2015
- UNFCCC COP-21, Paris, France, November/December 2015
- World Humanitarian Summit, Istanbul, Turkey, May 2016
- HABITAT III –The UN Conference on Housing and Sustainable Urban Development, Quito, Ecuador, October 2016
- World Economic Forum, Davos, Switzerland, January 2017

With the UNFCCC COP21 and the decisions on the SDG indicators, the APFM TSU will develop a plan on how to position the APFM in the post-2015 development landscape (e.g. through UN-Water contribution on developing indicators for SDG 6 and 11.5, or through the “inter-linkages paper” addressing the links between SDGs and their targets) based also on the input provided by the Advisory and Management Committee

**Getting donors involved – developing fundable projects**

As already reported at last AC/MC meeting in 2014, based on a series of requests from GWP Country Water Partnerships, a proposal for a workshop in West Africa on project preparation for the Implementation of Integrated Flood Management has been developed. The aim is to assist countries in the implementation of the principles of Integrated Flood Management thereby identifying opportunities for more resilient development. A side session of World Water Week 2015 in Stockholm had been held, where interest from France and Sweden was expressed and support with technical expertise and exchange among practitioners in the framework of SBPs were discussed.

The Initiative on Project Preparation on Integrated Flood Management is thus a response to the requests from countries and the Volta Basin Authority (VBA) to the APFM in order to enable countries and the VBA to formulate plans including investments following IFM approach and translate these into bankable projects for funding through:

- Developing institutional capacity in applying the concepts and the approach of the IFM
- Supporting the development of bankable IFM projects.

**4. Summary of AC Conclusions and Recommendation on proposed activities for 2015/2016**

**4.1. Publication and Tools**

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	Comments
●	"Primer for Integrated Flood Management from Theory to	not a Tool, not a



	Implementation”	Policy Paper
●	Environmental Aspects of IFM Case Studies	Contract issued and the work will start in October 2015.
●	“IFM Concept Paper 4th edition”	Minor changes only needed, (e.g. add « resilience »);
●	“Economic Aspects of IFM”	Revision is needed

General points for considerations:

●	Ensure cross-references between Tools and explicit reference to the HelpDesk;	
●	Develop a map of Tools and their inter-linkages on green infrastructure as a measure to reduce flood risk for inclusion in the HelpDesk;	
●	How to include the landscape into the IFM Tool series (e.g. the WWF/USAID «green FM» publication);	USAID to make the publication available through APFM website;
●	Deltares institute offered to lead the development of a new Tool on green infrastructures for FM, linking to the above mentioned WWF/USAID publication – GWP is keen to contribute;	
●	There is a need to develop a process of incorporating third parties publications into APFM;	
●	Include gender issues in all relevant Tools (particularly Health and Sanitation);	
●	Track process to know how Tools cover actual needs, expectations and what is their impact	

IFM Tool series in the way to be finalized and published:

●	Social Impact Assessment and Public Perception of Flood Risk (undergoing layout, in English and French);	
●	The Role of the Media in IFM (undergoing layout);	
●	Effectiveness of Flood Management Measures (undergoing layout);	
●	Reservoir Operation and Managed Flows (undergoing layout);	
●	Health and Sanitation Aspects of Flood Management (undergoing layout);	
●	Asistencia técnica para al preparación de una estrategia de incidencia política (Science-Policy Interface) (undergoing layout, in English and Spanish);	

IFM Tool series that need more work to finalize content:

●	Laws, Regulations and Technical Standards for Flood Management;	
●	Organizing Community Participation for Flood Management (ready in November);	
●	The Role of Land-Use Planning in Flood Management (ready in December);	
●	Crisis Mapping and Crowdsourcing in Flood Management (ready in	

	1st quarter 2016);	
●	Project Cycle in Flood Management – to be developed as part of IFM Project Preparation Initiative in West Africa (likely to be a manual);	
●	Flood Management in a Changing Climate (almost done);	
●	Loss Assessment Case Studies (ready in December);	

IFM Tool Series to be initiated:

●	Flood Management in a Multi-hazard Environment	<ul style="list-style-type: none"> <li>•BfG and CHy representative (C. Wittwer) volunteered ;</li> <li>•Include multihazards perspective, PEARL and CRASH;</li> <li>•TSU to send the draft available; and</li> <li>•Contact specialists who deal with multihazards (e.g. reinsurance companies)</li> </ul>
●	The Contribution of Geospatial Science to Flood Management – CIMA volunteered to take the lead, consulting other SBPs (e.g. UNOSAT);	
●	Rapid Legal Assessment 2 <sup>nd</sup> edition – University of Dundee volunteered to take the lead;	
●	Formulating a (transboundary) Basin Flood Management Plan;	
●	Governance Issues in Flood Management – Deltares institute to inquire (cc: BfG) with UNESCO-IHE, BfG to consider, as well as CIMA;	
●	Historical Approaches and Coping Strategies for Flood Management – interact with USAID to get additional materials through HOMS;	

## 4.2. Capacity Building

**Table 1 - Capacity building: priorities**

PRIORITY	ACTIVITY	
●	Develop training manual with GWA on Gender issues of Flood Management;	
●	Develop with the World Bank e-learning on the role of Land Use Planning in Disaster Management;	
●	Develop training modules in Spanish for local Civil Protection authorities in Paraguay (CONAGUA interested to participate and use);	
●	Prepare Power Point presentations on remaining IFM Tool Series – University of Dundee and Geneva volunteered for transboundary and legal assessment tools;	
●	Finalize IFM Training Manual with CapNet. DHI, BfG, ADPC and BoM offered to act as reviewers	
●	Add IUFM module to GWP/University of South Florida on Integrated Urban Water Management (IUWM) training course – CapNet volunteers to lead on behalf of APFM to develop IUFM module with materials taken from the existing APFM training materials on integrated urban flood management;	

●	Finalize CBFM Training Manual with ADPC;	
●	BoM to contribute in 2016 with modules on competency-based trainings on flood forecasters;	
●	Develop action plan on E-learning with TUHH and TUD – teleconference to follow;	
●	University of Geneva proposed to add transboundary issues of FM modules to their training platform, in cooperation with University of Dundee;	

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

●	West Africa – regional advocacy for the NMHSs and the Regional GWP network;	
●	Montpellier – in the framework of the ICID conference;	
●	Argentina – with FICH ;	
●	Zagreb – with UNESCO, for the International Sava River Basin Commission (ISRBC);	
●	Thun – Swiss NGO Platform on IFM;	

Among the numerous initiatives planned for 2015/2016, the Committee confirmed the following priorities:

●	Support to the PRONACCH in Mexico (with CONAGUA);	
●	PEARL – Preparing for Extreme And Rare events in coastal regions (with UNESCO-IHE, TUHH, EuroAqua, DHI, ICHARM and others);	
●	Community Based Flood Management (CBFM) in Thailand and Lao (with ADPC);	
●	Seeking funding opportunities for Implementation of IFM strategies in West Africa;	
●	Linkages with GFCS, CIFDP, FFGS and SWFDP;	
●	CIMA proposed to have APFM involved in training activities in the framework of their IPA for the Balkans;	
●	Following developments on CBFM in Iowa State;	
●	Support IFM in the Amur River Basin and in Siberia;	
●	Support to China GWP in the adoption of IFM;	
●	Support GWP Caribbean providing a starting point and information resource for future Caribbean IFM demonstration projects;	
●	Coastal flood management project development in Bangladesh;	
●	Seeking funding opportunities for Transboundary issues in the Dniester – Zoï Environment Network to keep APFM; informed about any further activities.	

#### 4.3. Outreach

The AC discussed various items that were agreed and were added to the table below, they are identified with a “\*” as they are not included in the original table presented to the AC and MC meetings. These assigned a yellow priority as the AC/MC had not explicitly assigned there priority by AC outreach activities are below (see the table below);

*	
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	Explore new avenues for engaging policy-makers through, for example, traditional media
*	Develop policy briefs to help engage decision-makers;
*	Keep track of the number of downloads, possibly through use of Google Analytics;

PRIORITY	ACTIVITY	
●	Continue the publication of the Newsletter of 3 issues per year;	
●	International events: participate and advocate for the concept of IFM	
●	World Water Week 2015, 23-28 August 2015, Stockholm, Sweden;	
●	UN High level events on DRR and SDGs on water-related disasters;	
●	COP21, 30 November-11 December 2015, Paris, France;	
●	Convention of the Parties with the UNECE Water Convention in Budapest, Hungary, Nov 2015;	
●	Flood Risk 2016 conference, Lyon, France, 17-21 October 2016;	
●	Other «non-water» events such as economic, humanitarian;	
●	WMO to promote the HelpDesk at its Regional Meetings;	
●	Website and social media: include the Catalogue of Services in the HelpDesk;	
●	Ensure conformity of APFM website with smartphone technologies (accessible also in China);	
●	Catalogue of Services: publish online; develop a folder containing a general brochure and SBPs factsheets;	
●	Circulate the Catalogue of Services template among SBPs;	
●	-SBPs to ensure their websites having direct linkages to the APFM website;	
●	Articles and other outreach activities: increase presence in external newspapers, newsletters, websites;	
●	Floodlist.com;	
●	D-AEP.org;	
●	Others: produce a new APFM roll-up banner	

#### 4.4 Other Matters,

Some participants offered to improve the APFM Annual report by correcting statements not fully accurate for example CapNet offered to provide text about the exact contribution of APFM to the online course on “IWRM as an adaptation to climate change”. Similarly, BfG offered to share with the TSU text explaining the scope of their potential activities regarding their cooperation in support of the IFM HelpDesk. As well, Zoi Environment Network proposed to send updated information regarding its training activities in the Dniester and the Neman river basins, and to add also in the APFM annual report a study tour to Switzerland on flood management for Eastern-european specialists .

The AC proposed to have a joint ½ to one-day meeting of the APFM and IDMP AC/MCs on a date between each of their AC/MC meetings. The TSUs of the two programmes will take this under advisement.

#### **5. Selection of SBPs for Management Committee meeting**

ICHARM and Australian Bureau of Meteorology were chosen by SBPs to co- represent the Support Base Partners in the MC meeting.

#### **6. Wrap up of Advisory Committee meeting**

##### **Concluding remarks by the Chair**

In closing the Advisory Committee meeting, Mr Torkil Jønch Clausen thanked all participants for their active contribution to the discussions. The Chairman particularly valued the active – and growing – participation of the SBPs not only in the activities, but also in the AC/MC meetings. He indicated that, through the united efforts of all, the APFM will be able to achieve progress, similarly to the remarkable work done over the last year. Sincere appreciation was extended to the Chair by Mr Paul Pilon, on behalf of WMO, and by Rudolph Cleveringa, GWP Acting Executive Secretary, for his expert direction of the meeting.

All members expressed their gratitude to the major financial contributors of the APFM, namely the Federal Office for the Environment (FOEN) of Switzerland, USAID, CONAGUA-Government of Mexico, WMO and GWP.

The AC meeting adjourned on 8th September 2015 at 12:00.

## **PART II MANAGEMENT COMMITTEE**

The Management Committee meeting took place on 8<sup>th</sup> September 2015 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 2014/2015, despite the reduction of human and economic resources.

#### **7. Review of progress on implementation of APFM activities for the year 2014/2015**

The Committee confirmed the comments and recommendations formulated by the AC. Moreover, the MC renewed its support to the decision of having an independent external review of the APFM activities in view of the inception of its Phase IV. Notwithstanding the fact that the financial reporting of the APFM will be shared with the MC at the end of the fiscal year (January-February 2016), the MC considered the financial implications this could have on the limited APFM budget. Based on a tentative idea about the modalities of such review, a tentative budget of 50,000 USD was identified as necessary to cover the costs of a two months interview and assessment exercise by two external evaluators interviewing selected key figures familiar with the APFM activities. USAID offered to investigate the possibility of covering this expenditure.

Terms of Reference for the two external evaluation will be drafted by Paul Pilon, and it will then be circulated among the Management Committee for their consideration. The issue could be discussed at the MC virtual meeting on budget issues to be held in the first quarter of 2016.

#### **8. Financial report for the year 2014/2015 and shifting of fiscal year**

The Financial report will be compiled and discussed by the MC during the first quarter of 2016.

### **9. Liaising of APFM and IDMP**

The MC discussed the need for improved sharing of information between the APFM and IDMP programmes such that those associated with one programme could know more about the other and be their ambassador, it was noted that the APFM and IDMP have some joint staff members, which has improved the structure of the HelpDesk and joint discussion on activities. The desire was expressed by the Chair that there eventually would be more common partners between APFM and IDMP. To facilitate knowledge sharing between AC/MCs, it was proposed to have at least the Advisory Committees of both programmes meeting on a yearly basis (possibly in the proximity of each programme's AC/MC meetings) to explore possible synergies. The TSU should explore possibilities of having this first joint APFM/IDMP meeting in 2016.

### **10. Staffing situation including secondments**

The APFM Staffing situation was illustrated, highlighting the fractional allocation of staff employee undertaking APFM activities. A severe reduction in overall human resources is expected in 2016, when the contracts of the three project officers, communication officer and an intern will end. Secondments by GWP could be a possible solution to the discontinuous staffing situation.

### **11. Funding issues**

The TSU would like to thank FOEN for its long contribution and for facilitating a dialogue with SDC. The funding topic raised a number of interesting suggestions in order to broaden APFM possibilities to find new sources of funding:

- GWP noted that a new business model should be explored, not purely based on voluntary core contribution.
- A shift of the strategy should be considered towards presenting large activities packages to funding partners. This would reduce their administrative burden and transaction costs.
- Partners could combine their efforts to seek funding together as a package.

### **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 8<sup>th</sup> September 2015 at 17:30.

## ANNEXES

### ANNEX I List of Participants

Name	Position	Institution	Email
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## ANNEX II Provisional Agenda for the Advisory Committee Meeting

7-8 SEPTEMBER 2015

WMO Secretariat, Geneva

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

7 bis, avenue de la Paix, Geneva, Switzerland

### Day One: Monday 7 September 2015

Time	Activities
09:00-09:15	Welcome, self-introduction and adoption of agenda
09:15-10:30 (1:15 hr.)	<b>1) Review of APFM activities for the year 2014/2015 and proposed activities for the year 2015/2016</b> <ul style="list-style-type: none"><li>• <b>Governance:</b><ul style="list-style-type: none"><li>○ Strategic Plan (2014-2018)</li><li>○ Activity Plan (2014-2015)</li><li>○ LogiFrame (Result Based Framework)</li></ul></li></ul>
10:30-11:00	Tea/Coffee break
11:00-12:30 (1:30 hr.)	<ul style="list-style-type: none"><li>• <b>Publications:</b><ul style="list-style-type: none"><li>○ Integrated Flood Management (IFM) Policy Series</li><li>○ IFM Tools</li><li>○ Training manuals</li><li>○ Proposed Activities</li></ul></li></ul>
12:30-13:30	Lunch Break
13:30 – 15:30 (2:00 hr.)	<ul style="list-style-type: none"><li>• <b>HelpDesk:</b><ul style="list-style-type: none"><li>○ Overview</li><li>○ Trainings</li><li>○ National and Regional Support Activities</li><li>○ Proposed Activities</li></ul></li></ul>
15:30-16:00	Tea/Coffee break
16:00-18:00 (2:00 hr.)	<ul style="list-style-type: none"><li>• <b>Outreach</b><ul style="list-style-type: none"><li>○ International events</li><li>○ Articles and other outreach activities</li><li>○ Website and social networks</li><li>○ Catalogue of Support Base Partners</li><li>○ Proposed activities</li></ul></li></ul>

From 18:30 onwards	Informal get-together (venue tbd)
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<b>Day Two: 8<sup>th</sup> September 2015</b>	
<b>Time</b>	<b>Activities</b>
9:00-10:00 (1:00 hr.)	<b>2) Review of Critical Issues and Strategic Possibilities</b> <ul style="list-style-type: none"> <li>○ The HelpDesk as a GFCS Water User Interface</li> <li>○ Synergies between APFM and IDMP</li> <li>○ Sendai Framework for Action – the post 2015 landscape</li> <li>○ Getting donors involved – developing fundable projects</li> </ul>
10:00 - 10:30	Tea/Coffee Break
10:30 – 12:00 (1:30 hr.)	<b>3) Summarized and Recommended Priorities of Proposed Activities 2015 - 2016</b> <b>4) Selection of SBPs for Management Committee meeting</b> <b>5) Wrap up of Advisory Committee meeting</b> Concluding remarks from Chair

## **Provisional Agenda for the Management Committee Meeting**

**8 SEPTEMBER 2015**

**WMO Secretariat, Geneva**

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

**Day Two: Tuesday Afternoon 8 September 2015**

<b>Time</b>	<b>Activities</b>
13:30 – 15:30 (2:00 hr.)	1) Review of progress on implementation of APFM activities for the year 2014/2015 2) Oversight recommendations from MC 3) Consideration of action plan for the year 2015/2016 as recommended by the AC meeting
15:30-16:00	Tea/Coffee break
16:00 – 17:30 (1:30 hr.)	4) Staffing situation including secondments and liaison with IDMP 5) Other business 6) Closing remarks from Chair

## **ANNEX III PRIMER FOR INTEGRATED FLOOD MANAGEMENT-FROM THEORY TO IMPLEMENTATION**

### **CONTENTS (19-20 pages)**

#### **1. INTRODUCTION (1-2 pages, the sub chapters are not necessary but the page should reflect them)**

- History of Flooding
- People and Floods
- Flood Types( flash flood, ice jams, coastal and river floods)
- Flood Characteristics
- Traditional Flood Management
- History of Integrated Flood Management
- Target Audiences

#### **2. INTEGRATED FLOOD MANAGEMENT AND DEVELOPMENT POLICY (3-4 pages)**

- Sustainable Development
- Integrated Flood Management and Ecosystem
- Integrated Flood management at the National and International or trans-boundary Watercourses
- Cost-Benefit Analysis and Economic Aspects of Integrated Flood Management
- Understanding Flood Risk (Hazard, Vulnerability and Exposure)
- Reducing Vulnerability, Exposure and Enhance Resilience

#### **3. COPING MECHANISM STRATEGIES (9-10 pages)**

- Introduction
- Flood Management Plans.
- Flood Risk Assessment.
- Shore hardening
- Floodway contamination
- Floodplain Zoning, dredging and Enforcement.
- Building Codes.
- Health and Sanitation Regulations.
- Storm Water Management and Urban Flooding.
- Spatial Plans,
- Wetland Protection (conservation and restoration of rivers and floodplains tool 13).
- River and Wetland Restoration (conservation and restoration of rivers and floodplains tool 13).
- Property Acquisition (Risk Sharing, tool no. 8).
- Home Buyout (Risk Sharing, tool no. 8).
- Flood Insurance (Risk Sharing, tool no. 8).
- Funding Subsidies (Risk Sharing, tool no. 8).
- Disadvantaged People.
- Large-Scale Flood Control Infrastructures (Reservoir operations and managed Flows, No. 5)
- Wet Proofing, Dry Proofing, and Sealing (Flood Proofing, No. 15)
- Permanent and Temporary Flood Barriers (Flood Proofing, No. 15)
- Land Raising (Flood Proofing, No. 15)
- Evaluation of Building, - Building Relocation and Buyout

#### **4. INFLUENCING FACTORS (2-3 pages)**

- Financial Limitations
- Socio-Economic Issues and Cultural Values
- Governance
- Adaptation Capacity
- Geography and climate

#### **5. ACTION PLANS (2 pages)**

- From Disaster Response to Risk Reduction
- Enhance Stakeholder Involvement
- Lessons and Action Plans for Professional
- Required Action from Decision Makers

#### **6. CONCLUSION (1 page)**

