

World Meteorological Organization

Weather • Climate • Water

Overview and Purposes of the Workshop





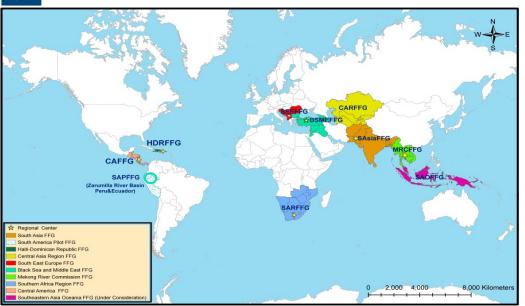


WMO; CLW/HFWR

Flash Flood Guidance System (FFGS)



GLOBAL FLASH FLOOD GUIDANCE SYSTEM COVERAGE



Flash Flood Guidance System with global coverage (Resolution 21, World Meteorological Congress-XV) enhances early warning capabilities of the NMHSs, currently covers fifty two (52) countries and more than two billion people around the world saving lives and decreasing economic losses.

The WMO Commission for Hydrology (CHy) jointly with the WMO Commission for Basic Systems (CBS) and in collaboration with the US National Weather Service. Hydrologic Research Center (HRC), and USAID/OFDA have developed the concept of the Flash Flood Guidance System (FFGS) with global coverage. The concept has been endorsed by the Fifteenth WMO Congress and is being implemented through a series of regional projects with funding from USAID.

FFGS Regional Projects

The following regional Flash Flood Guidance (FFGS) projects are implemented or under implementation or under consideration:

- Central America FFG (CAFFG) (Operacional): Costa Rica (Regional Centre (RC)), Belize, Guatemala, Honduras, El Salvador, Nicaragua and Panama;
- Southern Africa Region FFG (SARFFG): (Operational) South Africa (RC), Botswana, Lesotho, Malawi, Mozambique, Namibia, Swaziland, Zambia, and Zimbabwe;
- Mekong River Commission FFG (MRCFFG) (Operational): Cambodia (RC),
 Lao PDR, Thailand, and Viet Nam;
- Black Sea and Middle East FFG (BSMEFFG) (Operational): Armenia, Azerbaijan), Bulgaria, Georgia, Iraq, Jordan, Lebanon, Syria, and Turkey (RC);
- South East Europe FFG (SEEFFG) (under implementation): Albania, Bosnia and Herzegovina, Croatia, Moldova, Montenegro, Romania, Serbia, Slovenia The Former Yugoslav Republic of Macedonia, Turkey (RC);



GFFGS Regional Projects (cont.)

- South Asia FFG (SAsiaFFG) (under implementation): Afghanistan, Bangladesh, Bhutan, Nepal, Pakistan, Sri Lanka, and India;
- Central Asia Region FFG (CARFFG) (under implementation): Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan;
- South America Pilot FFG (under implementation): Zarumilla River Basin (Peru and Ecuador);
- Haiti-Dominican Republic FFG (HDRFFG) (being developed): Dominican Republic and Haiti;
- South Eastern Asia Oceania FFG (SAOFFG) (under consideration): Brunei, Indonesia, Malaysia, Papua New Guinea, Philippines, Singapore, and Timor Leste.



Objectives of the FFGS with Global Coverage

The main objectives of the Flash Flood Guidance System with global coverage are to:

- Enhance NMHSs capacity to issue flash flood warnings and alerts;
- Mitigate adverse impacts of hydrometeorological hazards;
- Enhance collaborations between NMHSs and Emergency Management Agencies;
- Generate flash flood early warning products by using state-of-the-art hydrometerological forecasting models;
- Provide extensive training including on-line training to the hydrometeorological forecasters;
- Foster regional developments and collaborations; and
- Support WMO Flood Forecasting Initiative.



Regional Components

Participating NMHSs:

- Have good cooperation, collaboration, communication with the Regional Centre for the implementation of the project,
- Provide historical and in-situ local data to the FFG system developer through the RC,
- Prepare and issue flash flood warnings and alerts to the public and national agencies including Emergency Management Authorities,
- Participate in the Flash Flood Hydrometeorologist Training Programme (Steps 1-5),
- Conduct verification studies.

South East Europe Flash Flood Guidance System

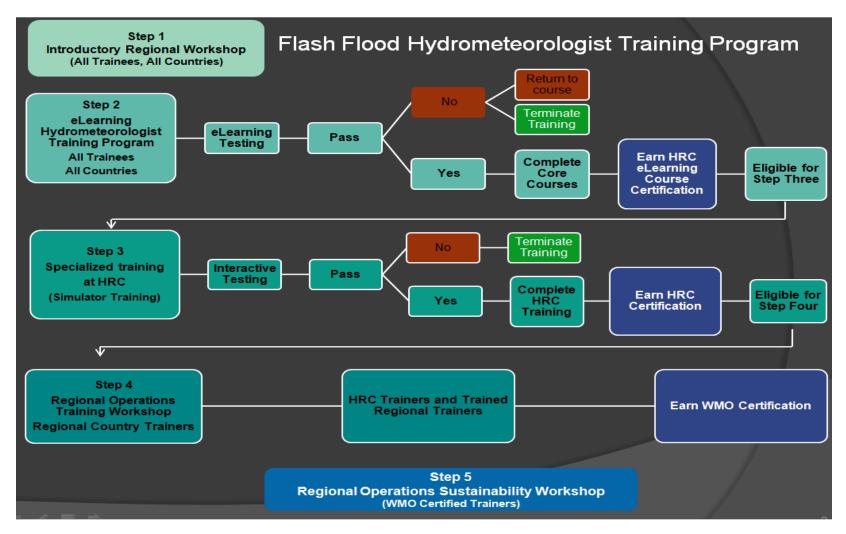


The Regional Centre:

- Maintain FFG servers to provide products and data to the participating countries,
- Collaborate with WMO to implement flash flood hydrometeorologist training programme,
- Evaluate FFG products from the regional perspective and conduct verification study in collaboration with participating countries,
- Have good internet connection to download and exchange data.



Flash Flood Hydrometeorologist Training Programme





Participants of On-line (Step 2) and Operational Training at HRC (Step 3)

Country	Participants	1
Albania	Klodian Zaimi	
Bosnia and Herzegovina	Azra Babic	
Bosnia and Herzegovina	Milica Djordjevic	
Croatia	Petra Mutic	
Croatia	Toni Jurlina	
Moldova	Gherman Bejenaru	
Serbia	Jelena Jerinic	
Slovenia	Saso Petan	
Slovenia	Andrej Golob	
FYROM	Vasko Stojov	



Objectives of the Workshop

Objectives of the SEEFFG Follow-up Operational Workshop (Step 4 Training) are:

- Review the SEEFFG technical background and system development;
- Operational use of the SEEFFG products through hand-on exercises;
- Review and evaluate the SEEFFG products for elected past events through case studies;
- Evaluate the performances of participants who successfully completed Step 2 and Step 3 training to be qualified for the WMO Certified Trainer.



COMPETENCY FRAMEWORK FOR PWS FORECASTERS AND ADVISORS

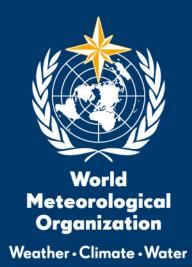
1. Analyze and monitor continually the evolving meteorological and hydrological situation:

Competency Description: Observations and forecasts of weather parameters and significant weather phenomena are continuously monitored to determine the need for issuance, cancellation or amendment/update of forecasts and warnings according to documented thresholds and regulations.

2. Forecast meteorological and hydrological phenomena and Parameters:

Competency Description: Forecasts of meteorological parameters and phenomena are prepared and issued in accordance with documented requirements, priorities and deadlines.





Thank you for your attention

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