

Bangladesh

Newly and emerging Bangladesh Agromet Advisory Service System and the active involvement with the World Bank funded project on Agromet Advisory Services (AAS) project from inception is doing exceedingly well. Number of important activities like preparation of AAS bulletins (district, national levels), special advisories under extreme events and dissemination and also sharing of information among different committees including National Agromet Committee, different organisations including Bangladesh Meteorological Department (BMD), Bangladesh Water Development Board (BWDB), etc. during preparation of advisories are significant progress in this regard. BAMIS PORTAL (www.bamis.gov.bd) was developed under this project.. All the weather forecasts are available and the same is displayed in BAMIS portal. Agromet Advisory Services bulletins (district, national levels), are prepared in collaboration with Bangladesh Meteorological Department (BMD), & Bangladesh Water Development Board (BWDB).. At present 43 weather observatories are functioning well and the same is used in agromet advisory system. Bangladesh will shortly open agromet course in two leading Agricultural Universities (Bangladesh Agricultural University (BAU) and Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU). Sub-seasonal forecast is being used under experimental mode in issuing advisories during flash flood and cyclone.



At present 30000 farmers were selected from the 15000 farmers' organisations, developed the infrastructure at district and upazila level by providing instruments (TABS rain gauge, kiosk, weather board, agromet room) including focal persons at different districts and upazilas in Bangladesh. Different information generated based on the data received from BMD and BWDB and through BAMIS PORTAL are disseminated to the farmers and also Sub-Assistant Agricultural Officers who used to visit the 12 farmer groups once a week and also SMS agromet advisories are communicated to farmers through BAMIS PORTAL. In Bangladesh agriculture production system is highly vulnerable to extreme weather events. Almost every year there is considerable loss of crops in some parts of the country. Recently a number of agrometeorological information and products are generated under the assistance of World Bank for providing sensible advisories at right time and right areas to save the loss of crop and ultimately contribute food security in the country.

Management of Extreme Events Flash flood Guidance system

- Rainfall threshold analysis in flash flood pilot areas

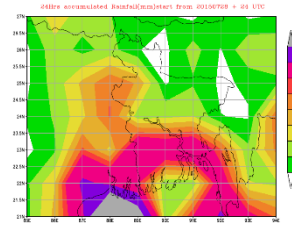
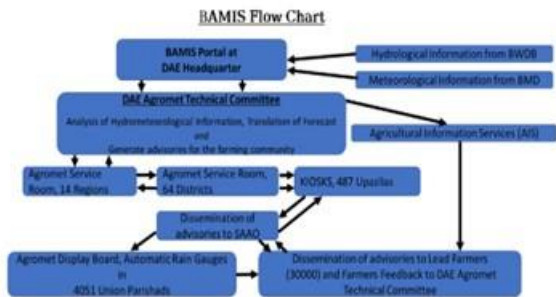
- Establishment of Real Time rainfall station in Sylhet and Cox's Bazar

Web based flash flood guidance and dissemination system development
Uses WRF 3 days and ECMWF 10

Flood Forecasting and Warning Center (FFWC) of the Bangladesh Water Development Board (BWDB) under the Ministry of Water Resources (MoWR) and Department of Agriculture Extension (DAE), Ministry of Agriculture will jointly issue flood forecast & Agromet Advisories under flood like situations

Drought monitoring is being made by using Standard Precipitation Index (SPI) at weekly and monthly basis

TRAINING MANUAL



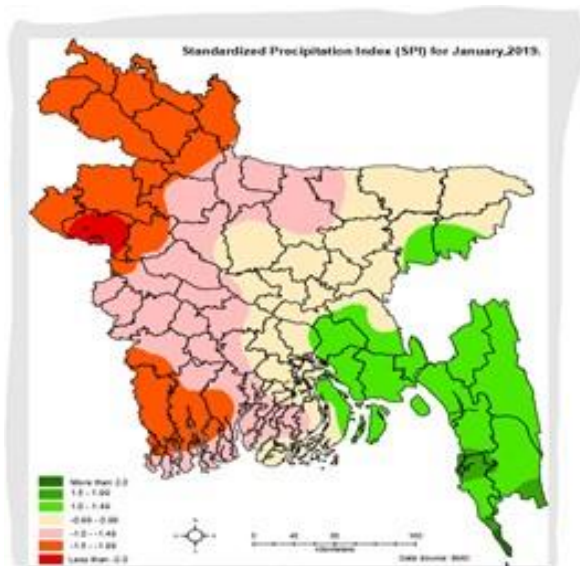
Duration (hrs)	Accumulated Rainfall of Cox's Bazar (mm)						
	28-07-2015	29-07-2015	30-07-2015	31-07-2015	01-08-2015	02-08-2015	03-08-2015
24	76	121	309	651	26	11	5
48	76	247	263	525	35	55	35
72	76	240	331	544	203	355	240
120	76	297	356	420	449	384	230
168	76	270	330	420	448	439	463
240	76	267	350	420	448	439	464
Advisory	FFF	FFA	FFA	FFA	FFA	FFA	FFA

Flash Flood Advisory

FFF: Flash Flood Warning
FFA: Flash Flood Alert
FFF: No Flash Flood

Flash Flood Warning on 29-07-2015 to 31-07-2015
Flash Flood Alert on 01-08-2015 to 06-08-2015
No Flash Flood on 28-07-2015

[Create Advisory](#)



Modes of Communication of Agromet Advisories



- Bangladesh Agro-Meteorological Information portal is a dynamic web portal developed under Agro-Meteorological Information Systems Development Project (Component C:BWCSR), DAE with a view to disseminate agro-meteorological services and other related information to the different users especially to the farmers in Bangladesh. Meteorological data from Bangladesh Meteorological Department and hydrological data from Bangladesh Water Development Board are accumulated in BAMIS portal. After being translated and validated by the DAE Agromet Technical Committee the information are disseminated at present to the 30000 lead farmers. It is linked with other relevant stakeholders. Also DAE officials and farmers are also connected. Bangladesh Agro-Meteorological Information portal includes:
 - Weather and Climate information across Bangladesh
 - Updated 64 districts agromet advisories twice in a week and one national agromet advisory once in a week.
 - Agromet information in respect of crop, weather sensitivities on crops, pests and diseases information and its linkages with weather along with control measures, Crop Weather Calendars etc.
 - Development of Agro-Meteorological products including satellite products to help different users to make tactical & strategic decisions.
 - Dissemination of agro-meteorological and hydrological information, forecasts and agromet advisories through different modes to the farmers through Department of Agricultural Extension and Agriculture Information Service.
 - Information on extreme events
 - Special Agromet Advisory Services for livestock, poultry and fishery
 - Feedback from farmers

- Others