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SOUTH ASIA HYDROMET FORUM CLIMATE SERVICES WORKSHOP

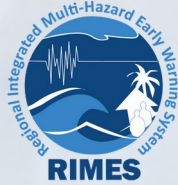
Country Presentation: Overview of Climate Services in South Asia

BANGLADESH

**S M Quamrul Hassan, Deputy Director
Bangladesh Meteorological Department**

OUTLINE OF PRESENTATION

- 1.Current Status of Climate Services
- 2.Forecast Products and Delivery
- 3.Sectoral Advisories and Applications
- 4.Tools, Platforms and Data Use
- 5.Capacity and Gaps
- 6.Expectation from SAHF CS WG



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CURRENT STATUS OF CLIMATE SERVICES

- Limited services provided by BMD - Climate data upon quires
 - There is no regular climate products generation system
 - In the first week of the month there is regular expert group meeting for one month and three month long outlook
 - There is experimental co-production for limited sectors with helps from RIMES
- There are regular Climate Outlook Forums since 2010
 - Twice in a year
 - This year we arrange it outside Dhaka for the first time
- User interaction before and after COF is only with four sectors

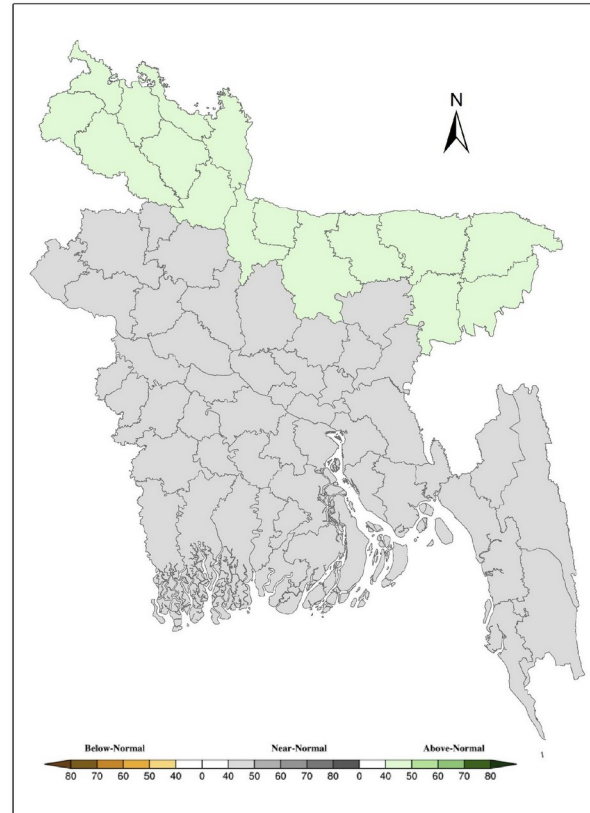


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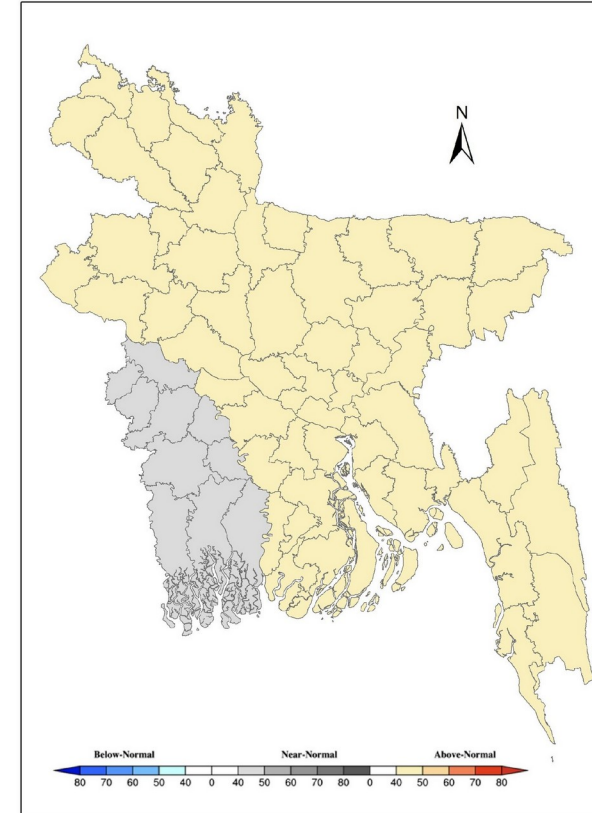


FORECAST PRODUCTS AND DELIVERY

Rainfall Forecast for June, 2025



Temperature Forecast for June, 2025



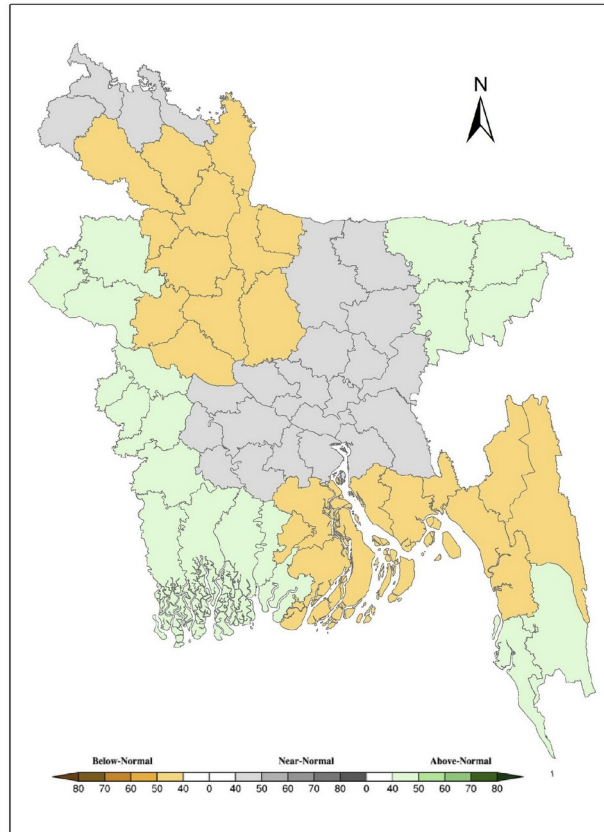


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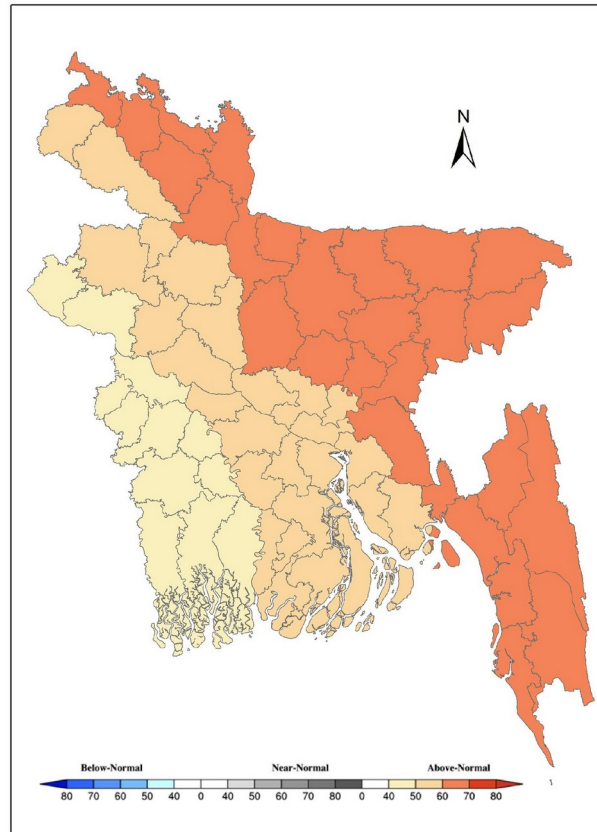


FORECAST PRODUCTS AND DELIVERY

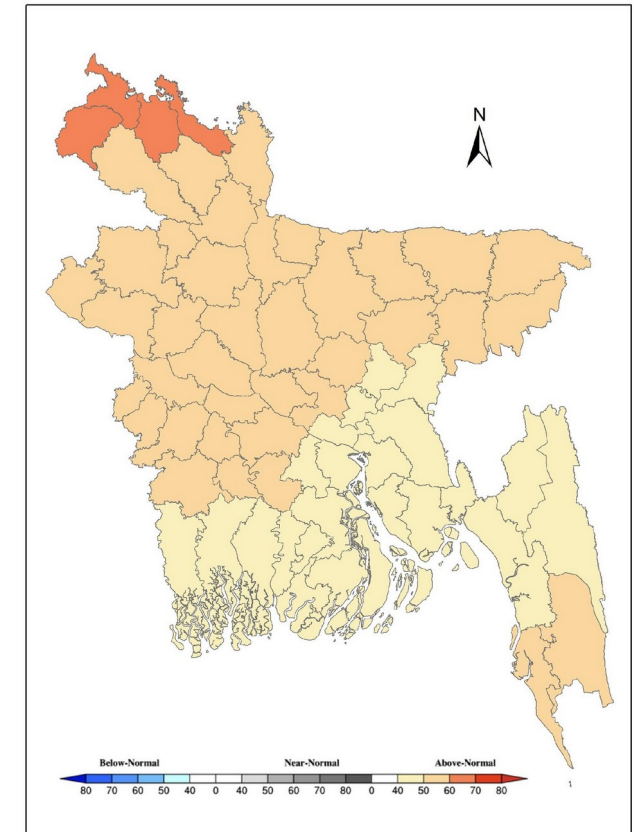
Rainfall Forecast of JJAS, 2025



Maximum Temperature Forecast JJAS, 2025



Minimum Temperature Forecast of JJAS, 2025



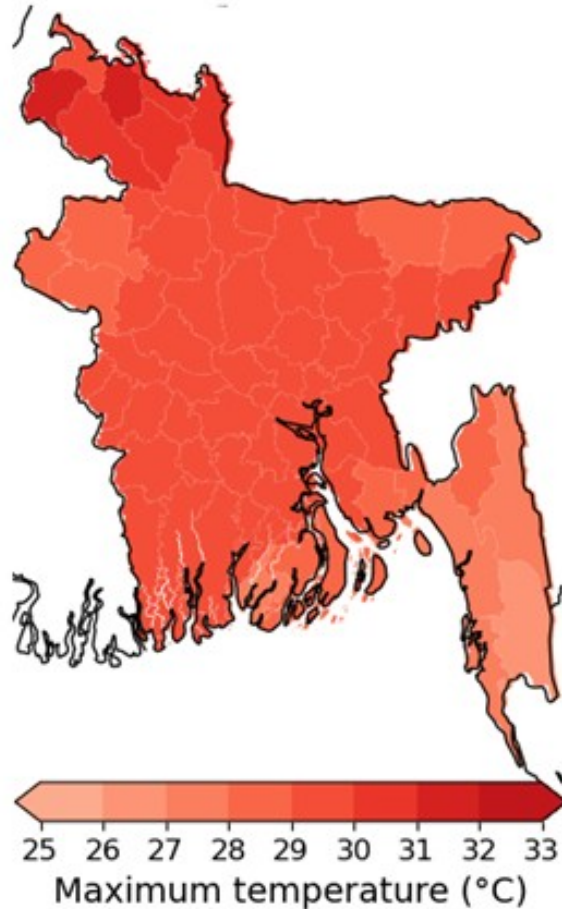


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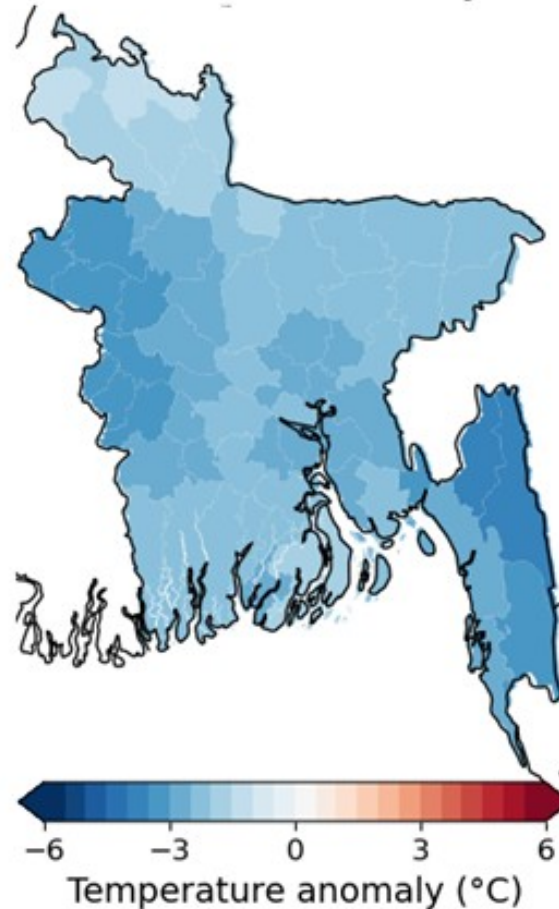


S2S Products

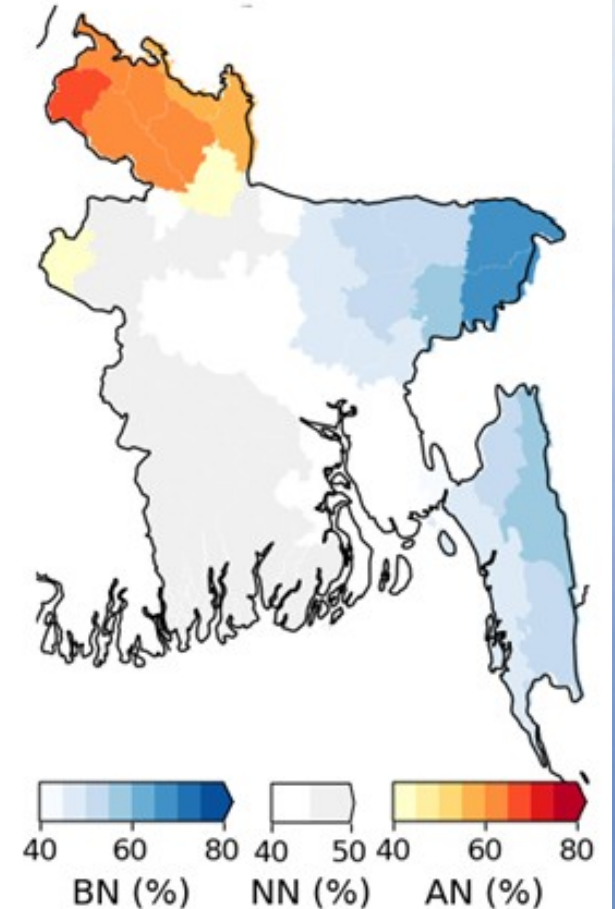
Deterministic forecast



Forecast anomaly



Probabilistic forecast

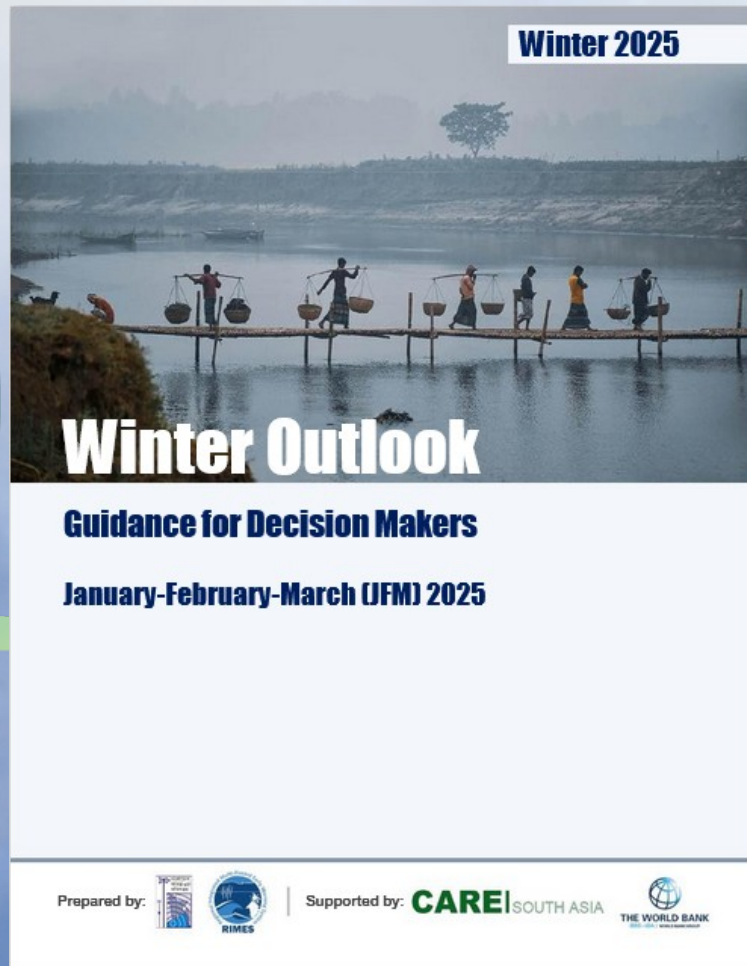




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FORECAST PRODUCTS AND DELIVERY





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Climate Reports



MET report

no. 08/2018
ISSN 2387-4201
Climate

Climate of Bangladesh

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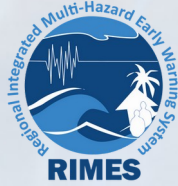
³Head of Climate Information, MET Norway



Photo: Mariusz Kluzniak







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SECTORAL ADVISORIES AND APPLICATIONS

- Co-production of tailormade advisories for Agriculture, Health, Livestock and Water Resources
- Still not widely used in planning or decision-making by government/sector agencies

TOOLS, PLATFORMS AND DATA USE

TOOLS

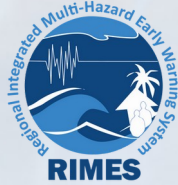
- CPT
- PyCPT
- Xcast
- FGT (TCC, JMA)

PLATFORM

- RDAS
- Python (S2S)
for DAE
- Climatology

DATA and PRODUCTS

- GPCs
- Copernicus
- NMME
- IRI
- APCC
- Other NMHSs
- SASCOF



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CAPACITY AND GAPS

- Using Different Tools like CPT, PyCPT
 - Using XCast (Thanks RIMES, Bangladesh)
 - Forecast Guidance Tool (FGT) developed by TCC, JMA
 - Python Platform for S2S (DAE-World Bank Project)
- Data Availability
 - Common format/Platform
 - Capacity building
 - User engagement/Co-production/Communication
- Data Sharing/Common data Platform
 - Training on different tools and methods

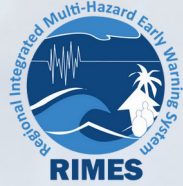


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EXPECTATIONS FOR SAHF CS WG

- ✓ High resolution observed gridded data both for precipitation and Rainfall in SAHF domain.
- ✓ Common Data Platform for Global model out put from different centres.
- ✓ Development/use of a common tool not dependent on any site for data.
- ✓ Use of AI for bias correction/
- ✓ Assessment of needs/gaps from all member countries.
- ✓ Climate Data Management System (CDMS) for NMHSs (open and free)
- ✓ Sectoral DSS
- ✓ Access to data of all lead centres/countries who are responsible for producing climate model output
- ✓ Capacity building and regular seminar/workshop.
- ✓ Share the good practices among the member countries



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THANK YOU!