Climate Services for Adaptation

Earth Information Day 2020 (30 November 2020)

Recent advances in Earth observation technology and data processing to support decision making



WMO OMM

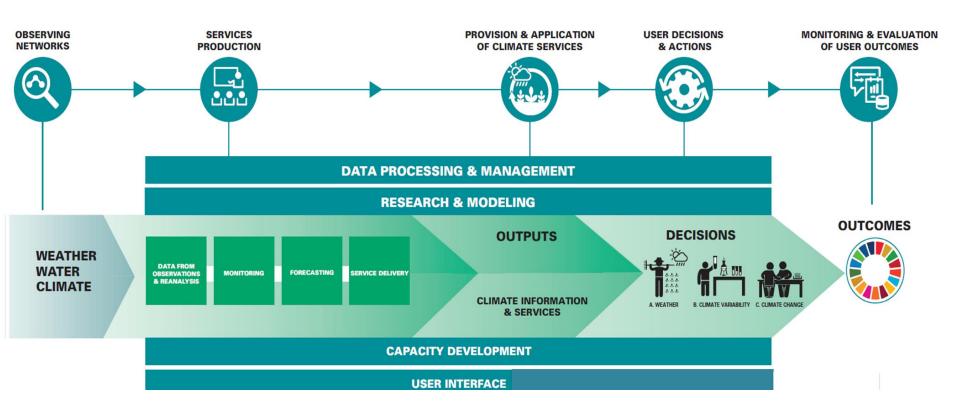
World Meteorological Organization Organisation météorologique mondiale Mariane Diop Kane Programme Manager Regional Office for Africa

Outline

- How climate services for adaptation are generated through the Global Framework for Climate Services
- The status of elements of the climate services value chain globally
- State of climate services in Africa



Climate Services Value Chain

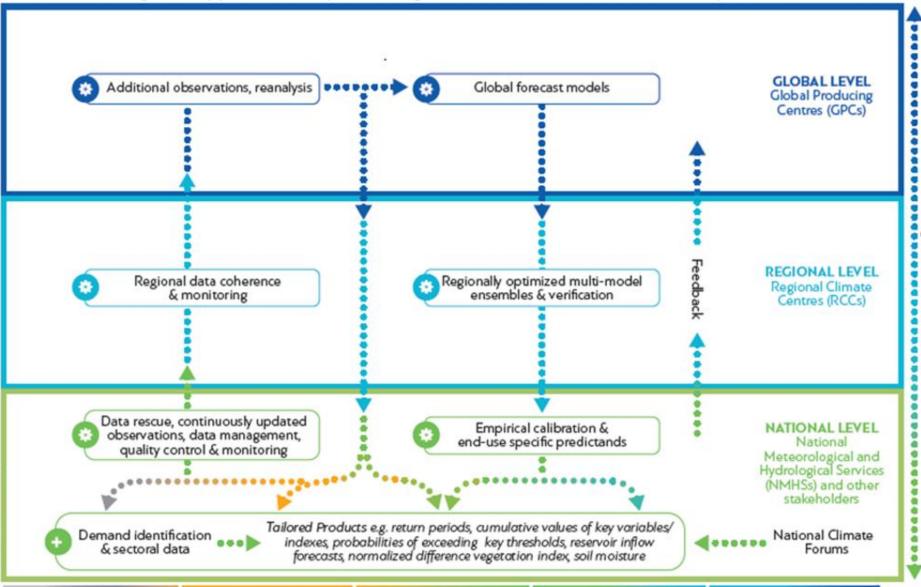


- Operational hydro-meteorological systems
 - Decision-support outputs
 - Climate-informed decisions
 - Socio-economic benefits





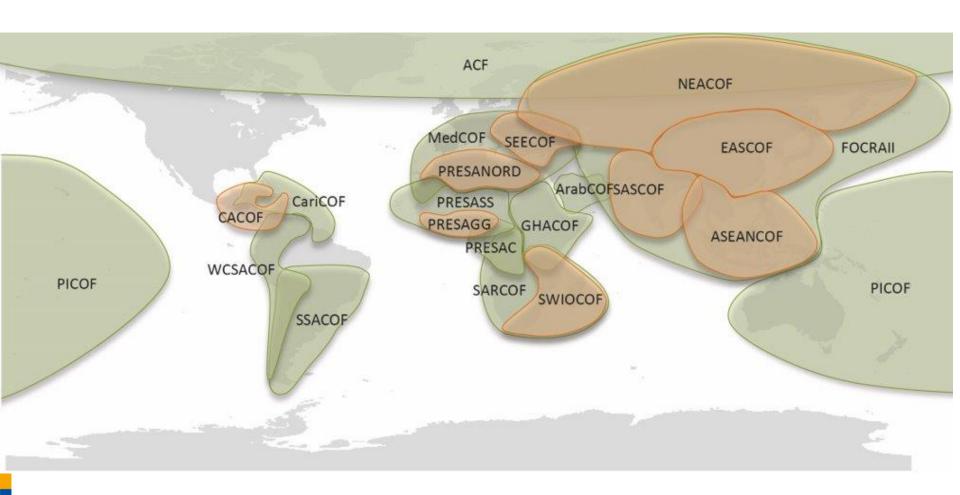
A Regional Approach to Implementing the Climate Services Information System (CSIS-R)



CLIMATE WATCH

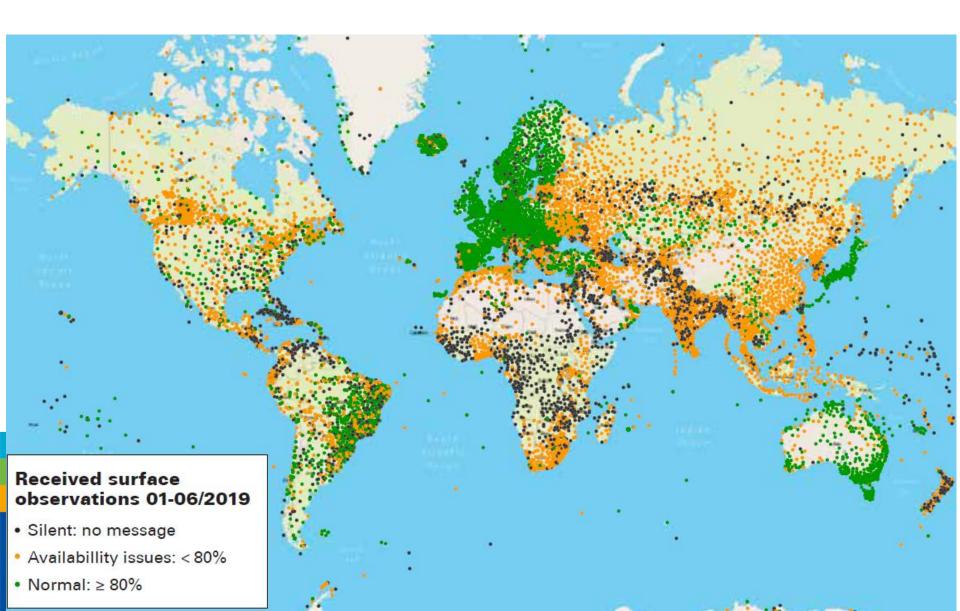
HISTORICAL

Regional Climate Outlook Forums

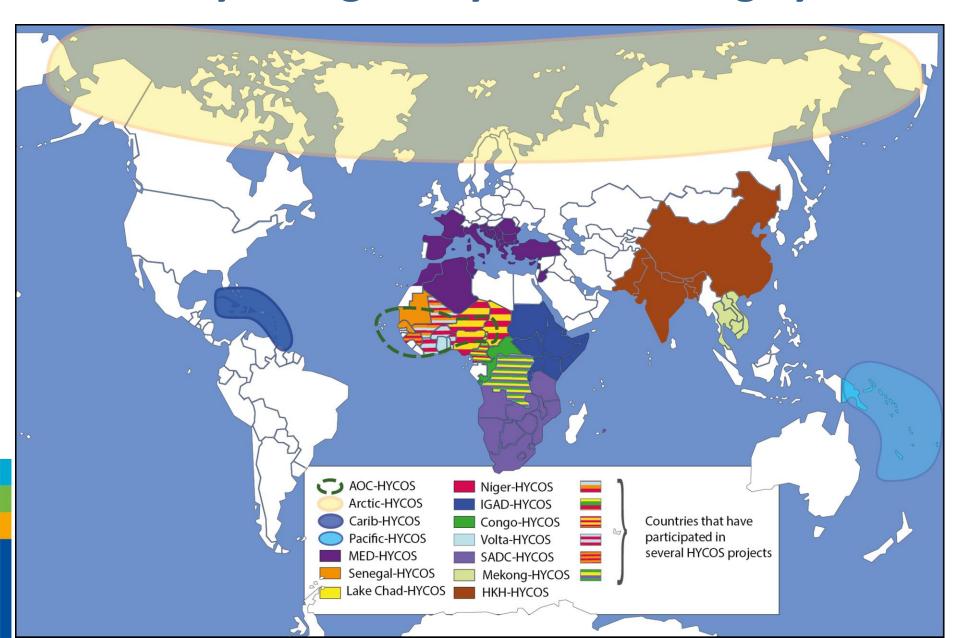




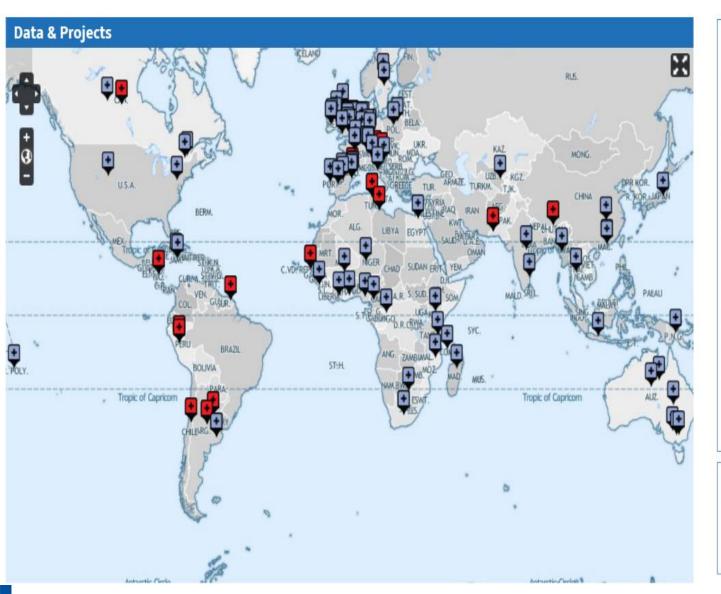
Global Surface Station Network



World Hydrological Cycle Observing System



Data Rescue



Copernicus Climate Change Data Rescue Service

In coordination with I-DARE, the Copernicus Climate Change Data Rescue Service is being developed to provide an ongoing service to facilitate land, marine and upper air data rescue by providing an upload facility to collect and display station metadata to help locate data in need of rescue.

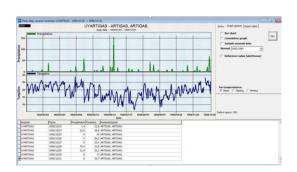
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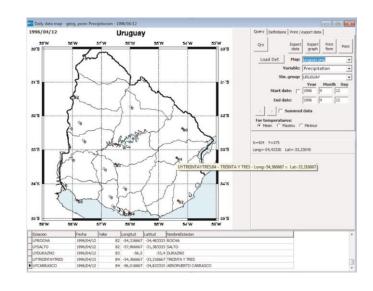
Data Management

Meteorological, Climatological and Hydrological Database Management System (MCH)



- Including data rescue
- Evolution towards Open CDMS







✓ Early Warning:

The Status: AFRICA

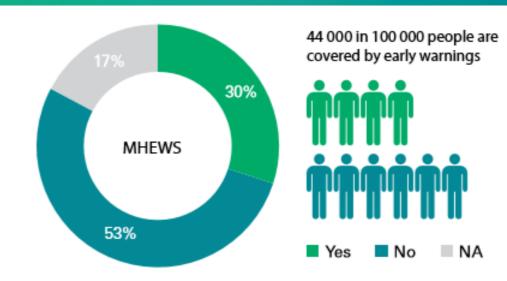
 The rate of MHEWS implementation overall is lower than in other regions

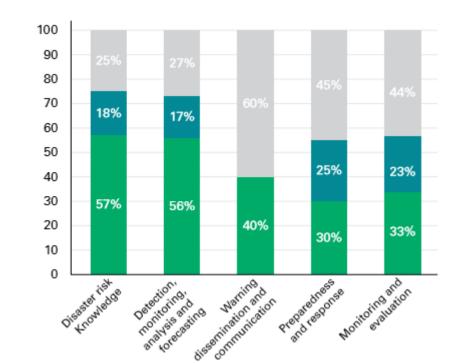
 Preparedness, and monitoring of benefits are particularly weak

Source: 2020 State of

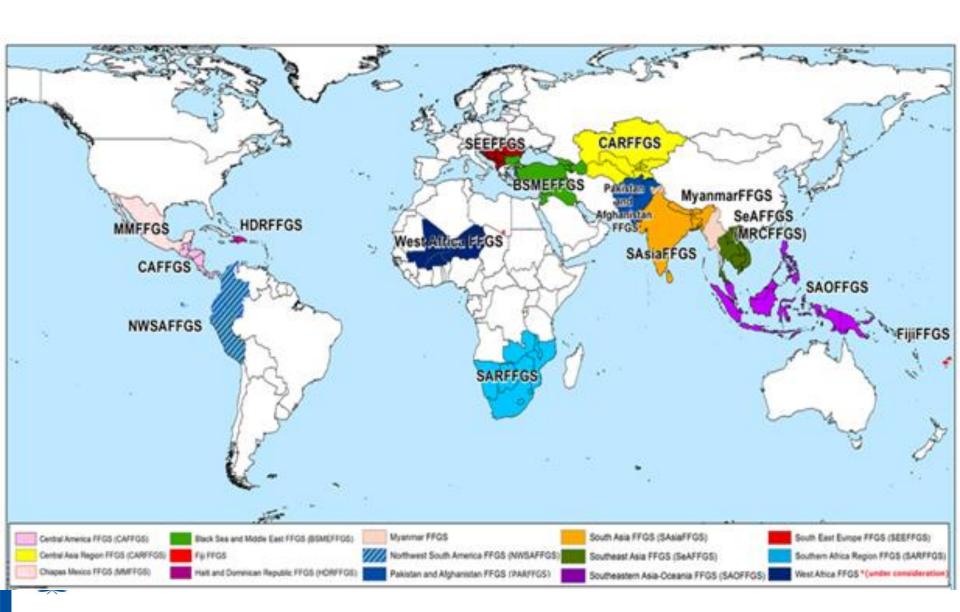
Climate Services report







Flash Flood Guidance System



Climate Science Basis for Climate Action

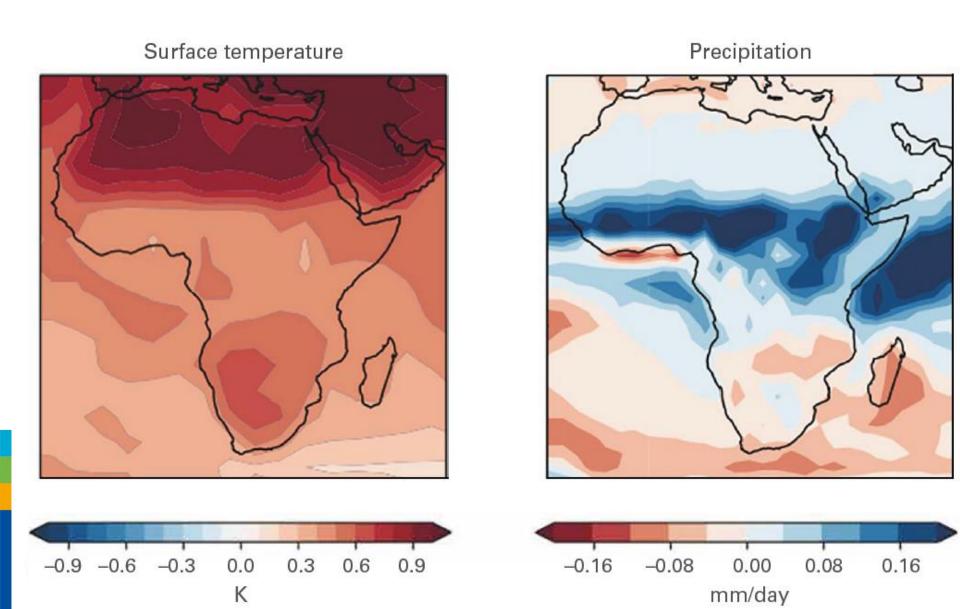




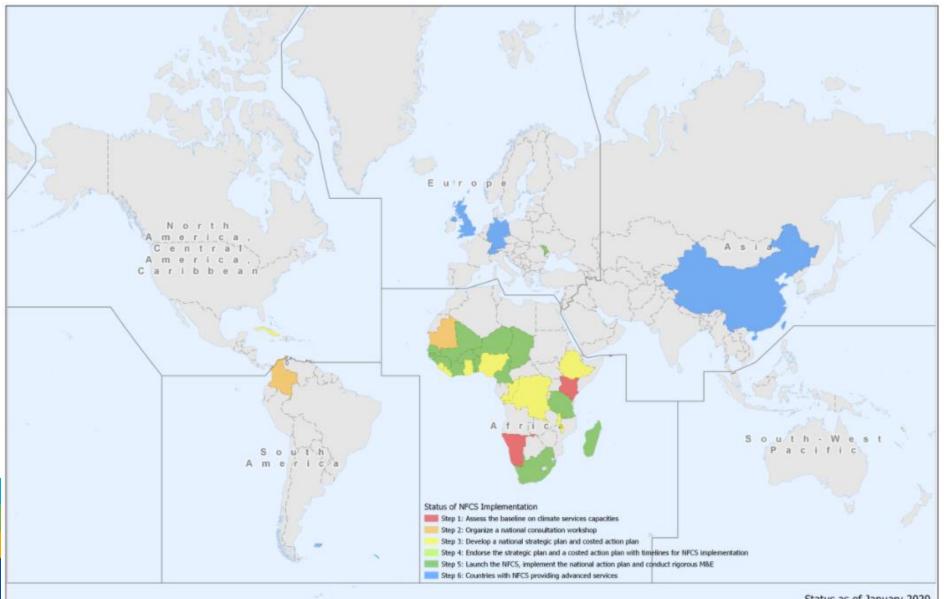
CHANGE	INDICATOR TYPE	INDICATOR	ENSEMBLE AGREEMENT
Small	Temperature	Temperature	MANY models agree on INCREASE
Small	Temperature	Max temperature	MANY models agree on INCREASE
Small	Temperature	Min temperature	MANY models agree on INCREASE
Small	Temperature	Frost days	MANY models agree NO CHANGE
Small	Temperature	Heating degree	MANY models agree NO CHANGE
Small	Precipitation	Number of dry spells	MANY models agree on DECREASE
Large	Temperature	Tropical nights	MANY models agree on INCREASE
Large	Water discharge	Min water discharge	MANY models agree on INCREASE
Small	Precipitation	Longest dry spell	SOME models agree on INCREASE

Figure 13: Main climate indicators from climate projections for Praia over the period 2041-2070 for the RCP 4.5 emissions scenario. The top shows the summary for (six) selected indicators, whereas the bottom part lists the main projected changes, ordered by those with the more robust signals (see Ensemble agreement column).

State of the climate in Africa



National Frameworks for Climate Services



Status as of January 2020

Thank you Merci



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