

WMO Contributions to SDG-13: Climate Action

Transformation of STI and indigenous knowledge to SDGs: 2019 Super Smart Community
Hydro and Agro Informatics Institute (HAI), Ministry of S&T, Thailand



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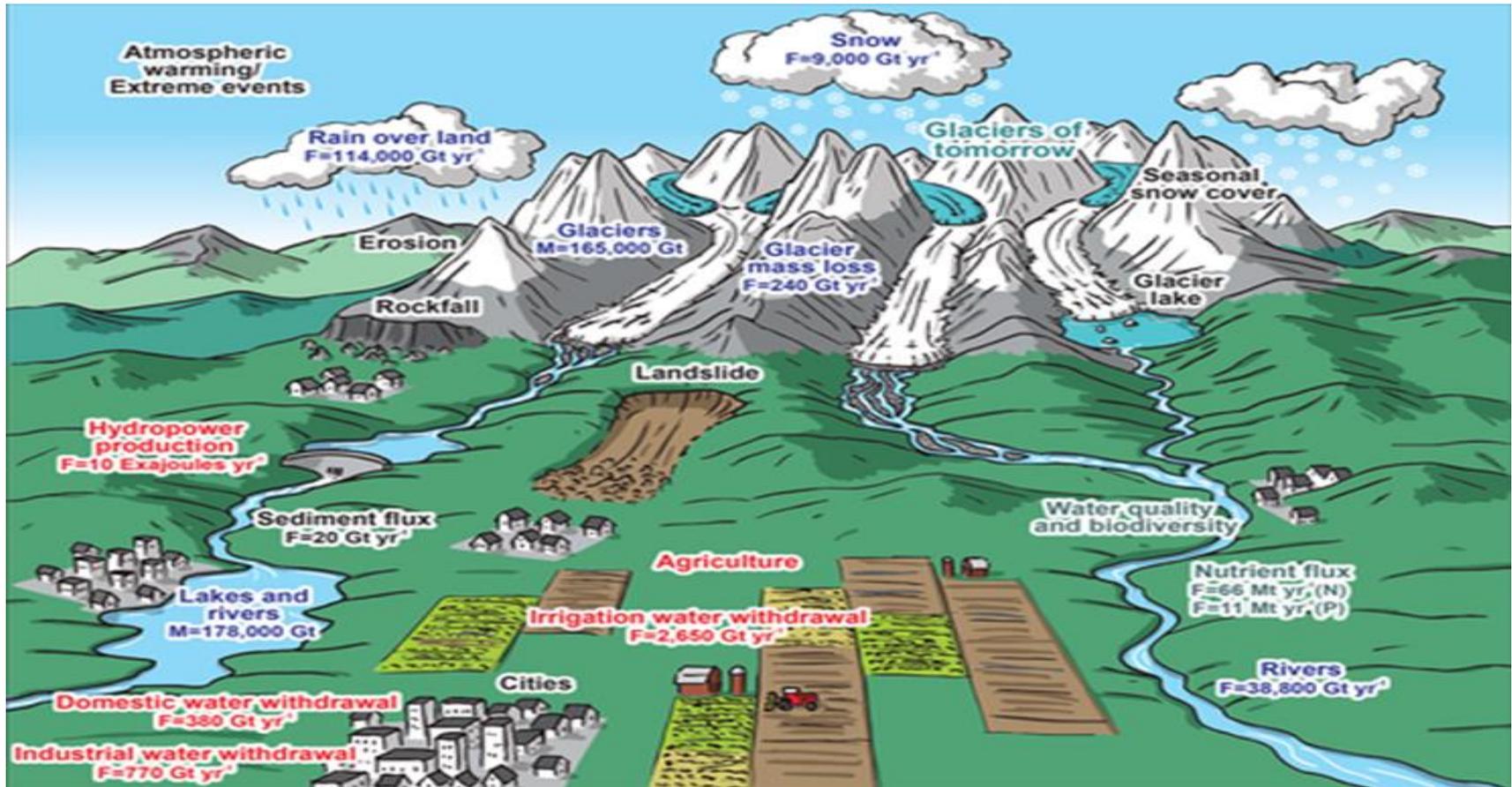
World Meteorological Organization
Organisation météorologique mondiale

19 March 2019

Pullman King Power Hotel, Bangkok

**Chung Kyu Park, Director
Regional Office for Asia and the
South-West Pacific**

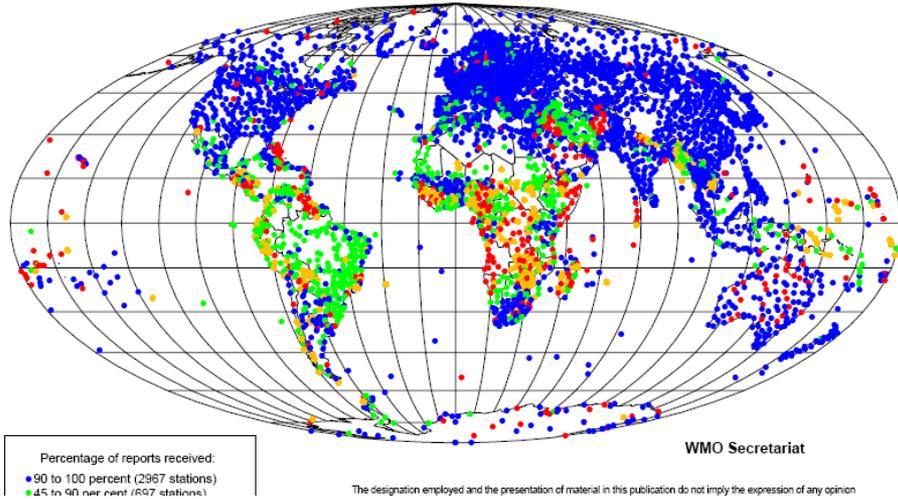
High Mountain regions



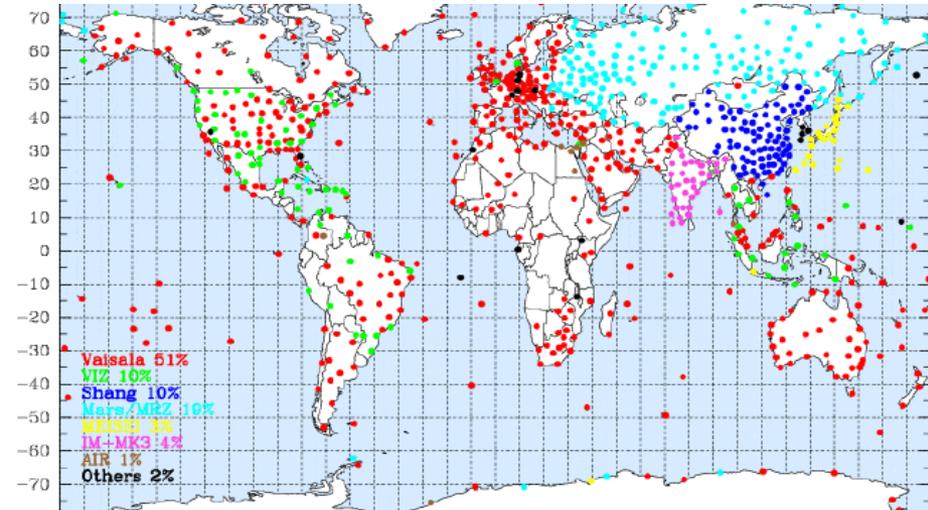
- ❑ Mountain areas and their ecosystems highly vulnerable to climate change
- ❑ Hazards and Water resources
- ❑ **Significant observation and prediction gaps**



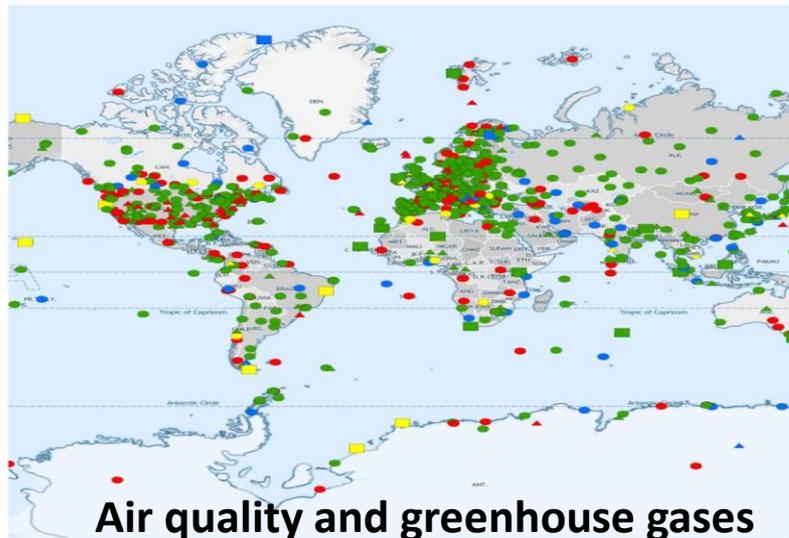
WMO Global Observing Networks >10000 stations



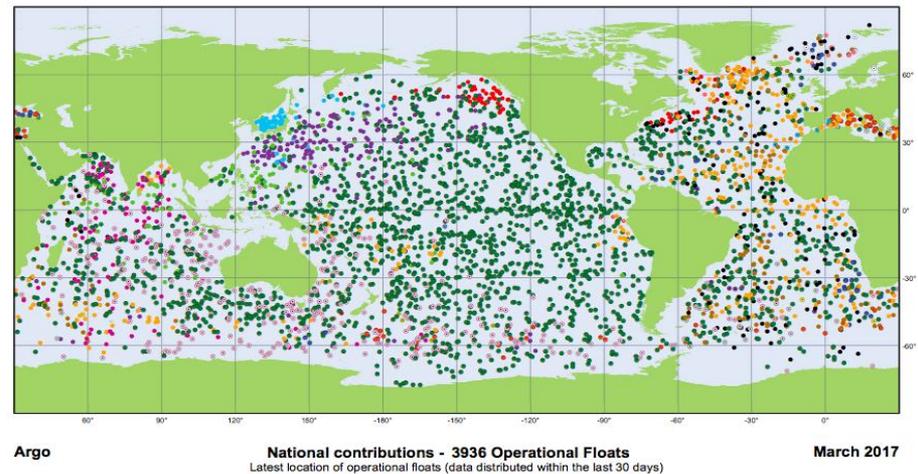
Surface observations



Balloon soundings



Air quality and greenhouse gases

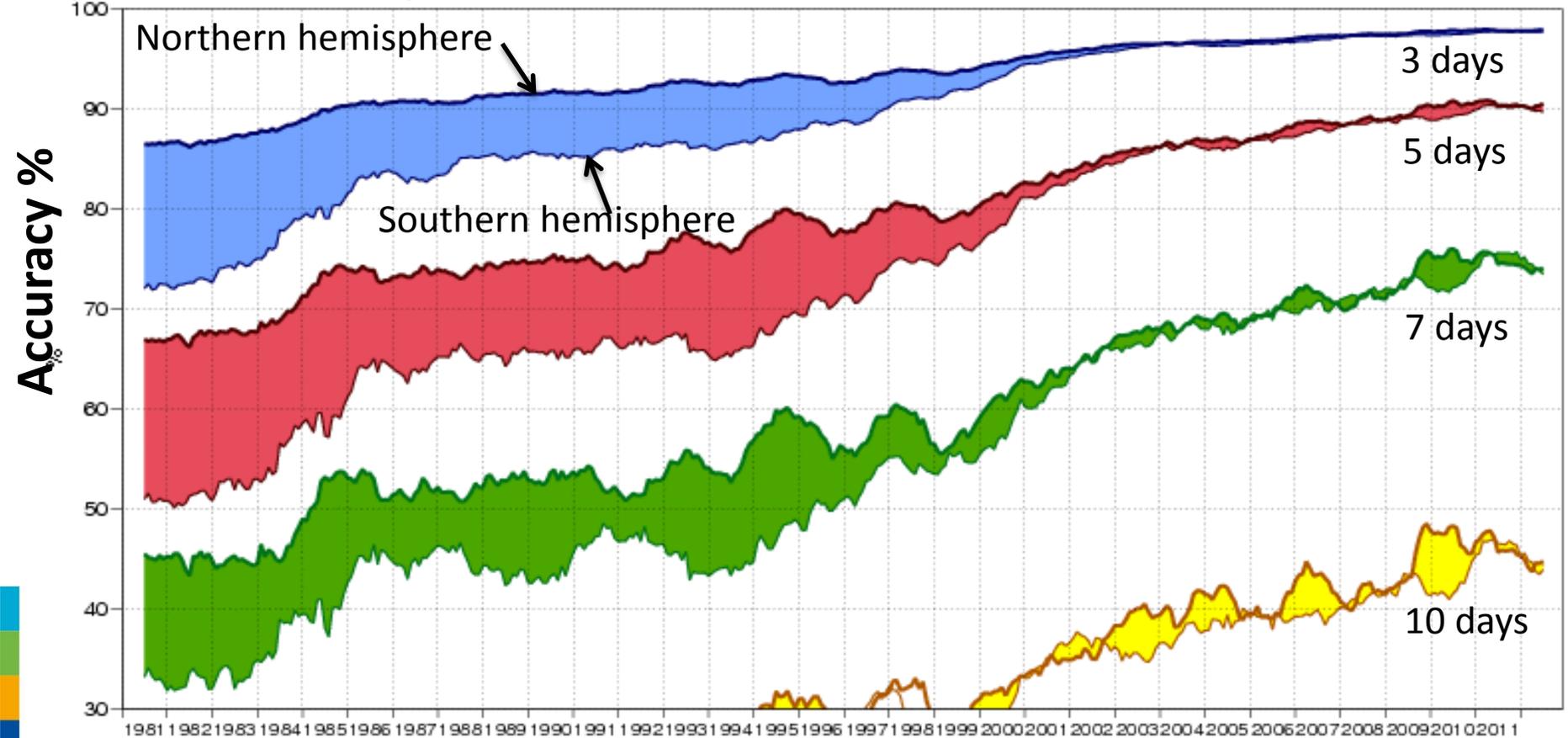


Ocean weather (with IOC UNESCO)

Improved weather forecasts

500hPa geopotential height
Anomaly correlation
12-month running mean
(centered on the middle of the window)

- Day 7 NHem
- Day 7 SHem
- Day 10 NHem
- Day 10 SHem
- Day 3 NHem
- Day 3 SHem
- Day 5 NHem
- Day 5 SHem





SUSTAINABLE DEVELOPMENT GOALS



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WMO contributions to the [SDGs](#)

Sustainable Development Goal

Goal 13. Take urgent action to combat climate change and its impacts

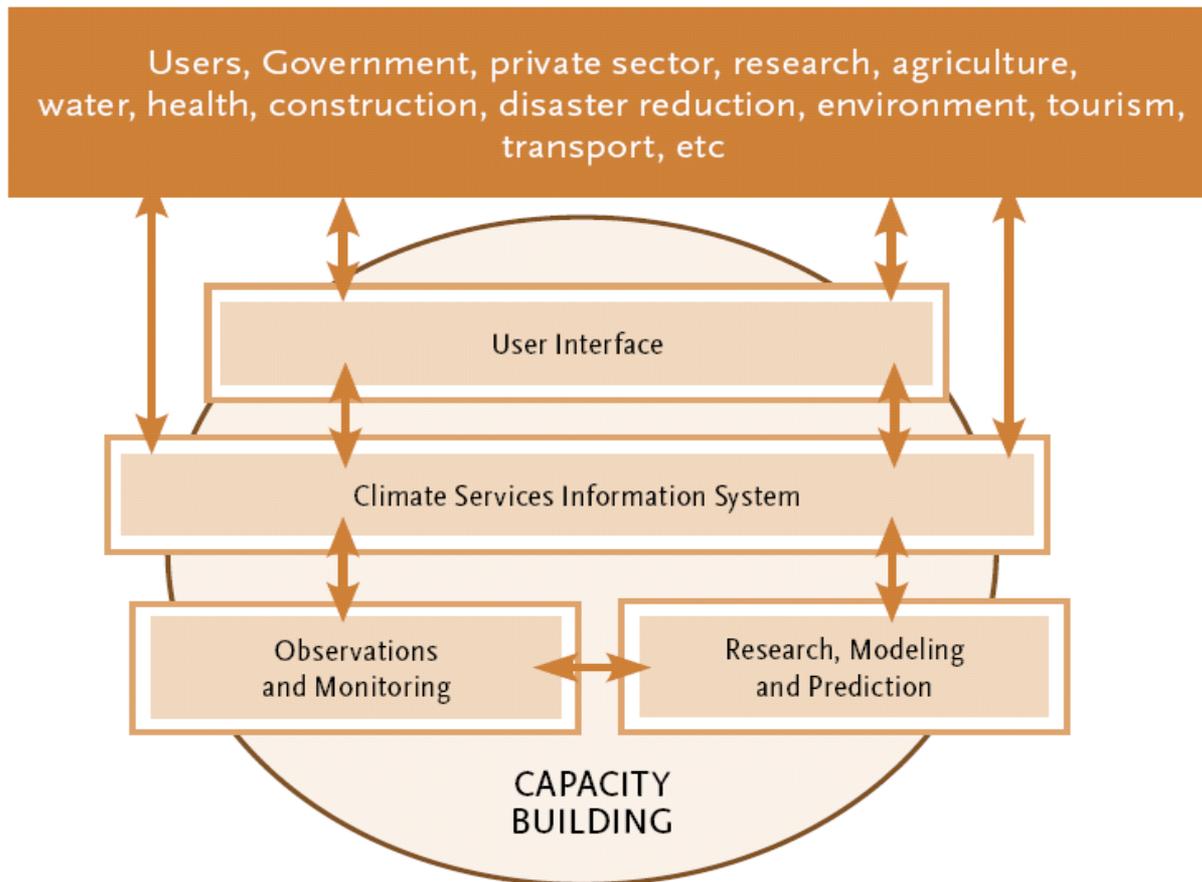
13.1 **Strengthen resilience and adaptive capacity** to climate-related hazards and natural disasters in all Countries

13.2 **Integrate climate change measures into national policies**, strategies and planning
(WMO, co-custodian)

13.b **Promote mechanisms for raising capacity** for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities

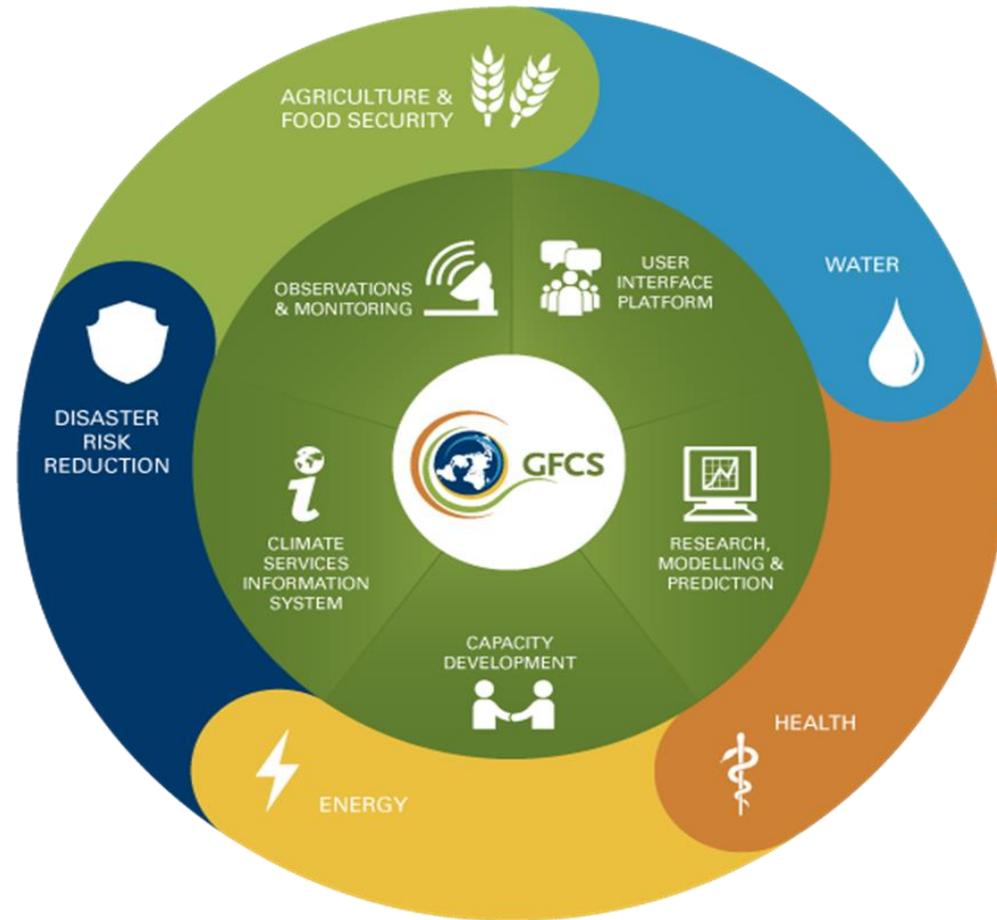
WMO Contributions to SDG-13 through the Global Framework for Climate Services (GFCS)

Take urgent action to combat climate change and its impacts



VISION

"To enable better management of the risks of **climate variability and change and adaptation to climate change**, through the development and incorporation of **science-based climate information and prediction** into **planning, policy and practice** on the global, regional and national scale."

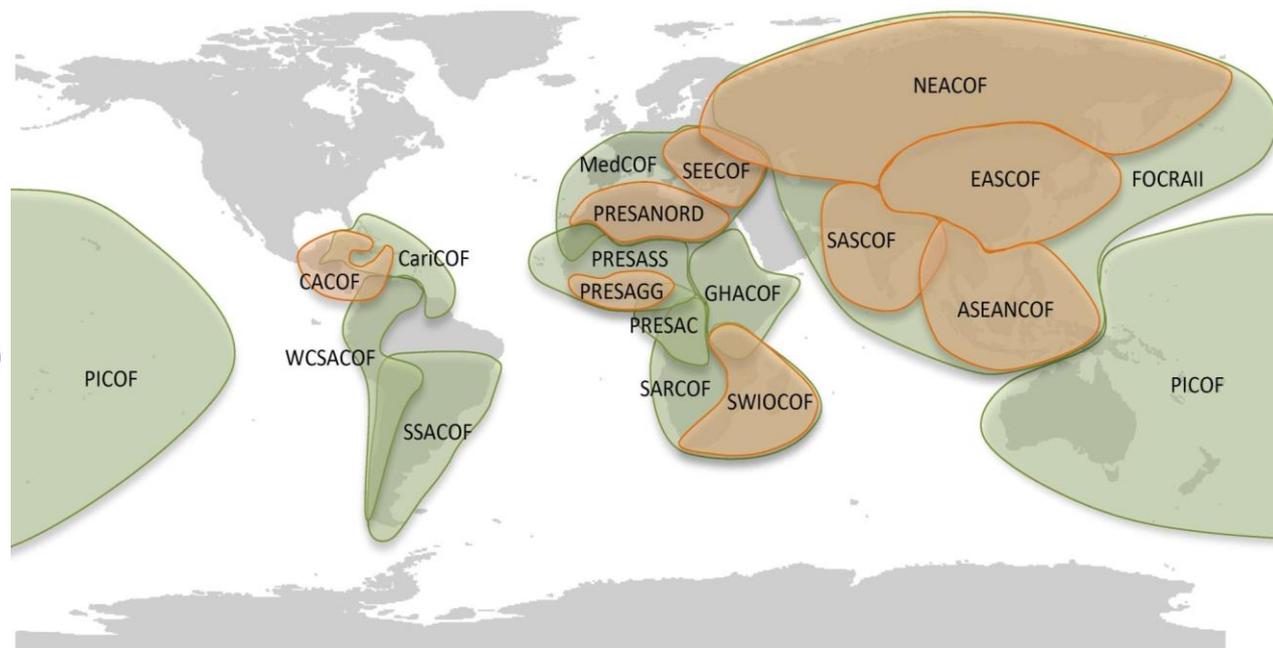


Climate Services Information System & User Interface

Principal GFCS mechanism to routinely collate, store and process information about past, present and future climate

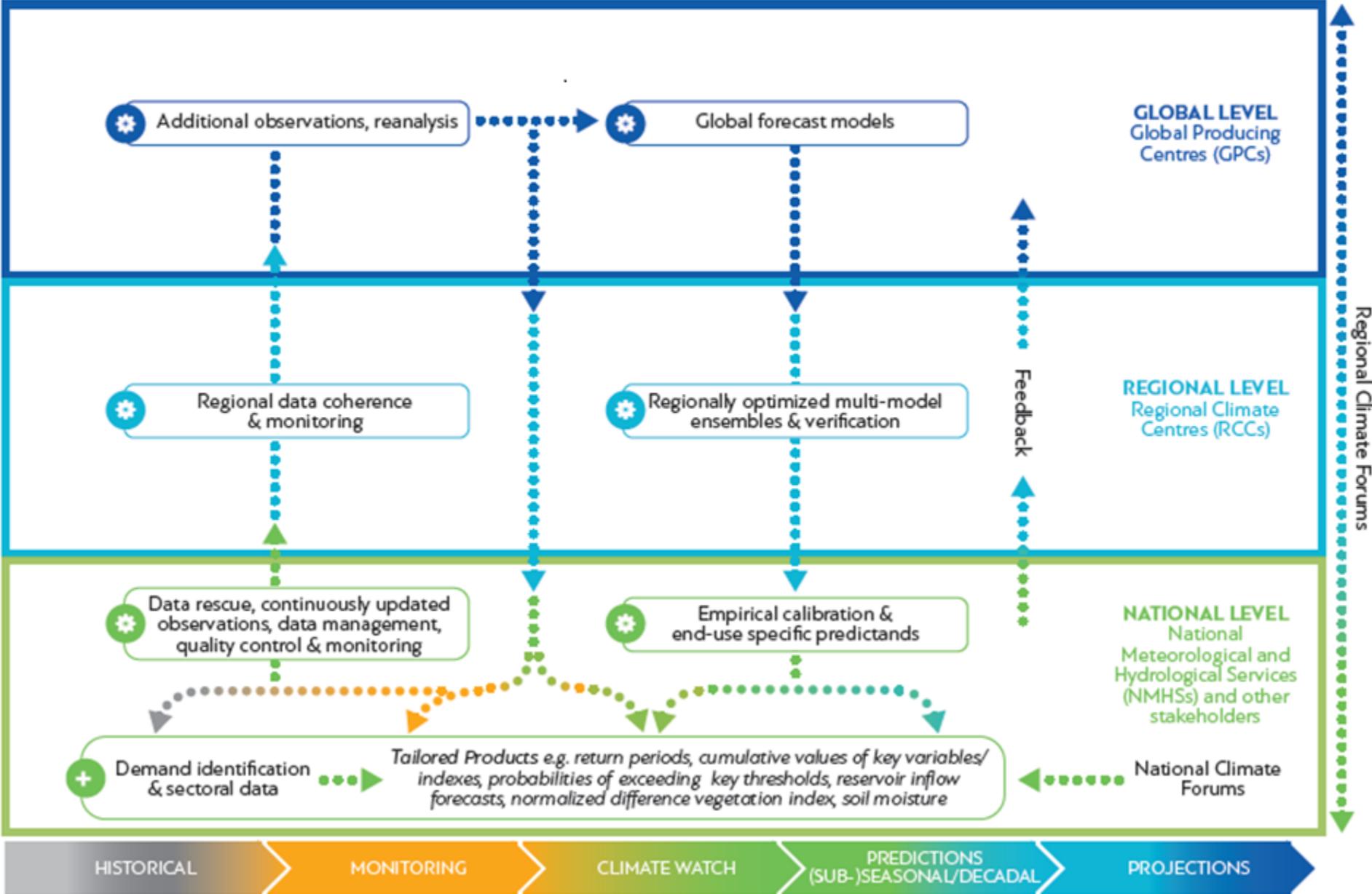
Broaden the provision of policy- and decision-supporting climate information and services

Regional Climate Outlook Forum (RCOF)





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



Climate Risk & Early Warning System (CREWS)

Objective

Increase access to EWSs and risk information to protect lives, livelihoods in LDCs & SIDS

CREWS contributes to the SDGs, the Paris Climate Change Agreement & the Sendai Framework

Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030.

SUMMARY

WMO has dedicated to the development of science, technology and innovation (STI) for climate change resilience and sustainable development (1873 - IMO and 1950 - WMO)

WMO is the co-custodian of Goal 13 on climate action

Contribution to SDG-13 based on the results based framework and mechanism through the Global Framework for Climate Services (GFCS), the Climate Services Information System (CSIS) and the Multi-Hazard Early Warning System (MHEWS)

Providing decision-makers with the scientific facts and analyses to adapt to climate change impacts and build climate resilience

Hosting the Intergovernmental Panel on Climate Change (IPCC), the World Climate Research Programme (WCRP) and the Global Climate Observing System (GCOS)

Need partners for multidisciplinary application of information with decision support systems at local level

Indigenous knowledge is beneficial to strengthen effectiveness of community-based climate change resilience and sustainable development



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Thank you



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