

# Capacity Building and Development Science and Innovation Dept.

## Capacity Development Panel 26/27 August 2020

WEATHER CLIMATE WATER  
TEMPS CLIMAT EAU



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# Capacity building activities within the Research programmes, a few examples

- 1) WMO issues and activities that are relevant to capacity development
- 2) Recommendations on how to incorporate the relevant activities into an integrated capacity development strategy
- 3) Recommendations on how to coordinate the work of the Panel with those of other constituent bodies
- 4) Any other relevant issues



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# The World Climate Research Programme (WCRP): Capacity Development Activities

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# World Climate Research Programme (WCRP)

The primary objective of *Capacity Development* is to galvanize long-term achievements in climate research.

WCRP promotes current and future leadership in climate science, making particular efforts to support and engage *Early Career Researchers (ECRs)* from all regions of the world, towards a sustainable climate research community



# Capacity Development Activities

- WCRP undertakes a range of *Capacity Development Activities*, including e.g. summer schools, workshops and sponsorship (e.g. travel funding). Many are focussed on and co-designed with ECRs
- ECRs are directly involved in activities and the planning discussions for the current restructuring of WCRP
- The new Lighthouse Activity is the WCRP Academy, now in an early planning phase with a strong focus on capacity exchange programmes and involvement of young scientists



## DRAFT WCRP Lighthouse Activities



WORLD  
METEOROLOGICAL  
ORGANIZATION



United Nations  
Educational, Scientific and  
Cultural Organization



Intergovernmental  
Oceanographic  
Commission



International  
Science Council



World Climate Research Programme

# Capacity Development Issues

- WCRP struggles to achieve and maintain diversity, especially in the upper leadership levels. Many developing countries are poorly represented
- There is no measure of how much impact initiatives have and they are planned on a largely *ad hoc* basis
- Connections with training in other WMO departments (and other co-sponsors) is currently weak & should be improved
- Currently a strong focus on Capacity Development of ECRs, mid-career scientists so far receive less support
- We need to think more about delivery workshops and training courses: online vs face to face meetings  
→ this will open up education and training to a far wider group



International  
Science Council



# The WMO Global Atmosphere Watch (GAW) Programme: Capacity Development Activities

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# Capacity building in GAW

- specialized training schools and workshops, participation in conferences;
- training of the station personnel and knowledge exchange during station audit and comparison campaigns;
- twinning programmes and personnel exchange
- Activities of central facilities



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# Regional Training Centers

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Training course and Workshop  
on Seamless Prediction of  
Air Pollution in Africa



Participant from Regional  
Training Centre in Barbados

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# Synergies and Collaboration

First joint training course on atmospheric composition



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A successful week of hands-on work on atmospheric composition satellite data closes today in #Cluj! Thanks to all the students and colleagues at @ESA\_EO @CopernicusECMWF @WMO @FMISpace @KNMI and @UnivBabesBolyai for hosting the course.



4:22 AM - 8 Nov 2019



# The World Weather Research Programme (WWRP): Capacity Development Activities

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# Capacity building in WWRP

- WWRP undertakes a range of *Capacity Development Activities*, including summer schools and workshops  
Many are focussed on and co-designed by ECRs
- Supports regional development & innovation projects with strong involvement of ECRs
- “Nurturing” future talents, personal exchange and training of staff



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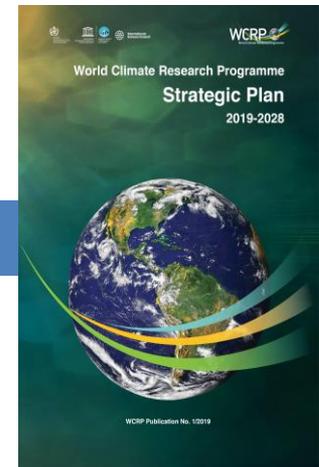
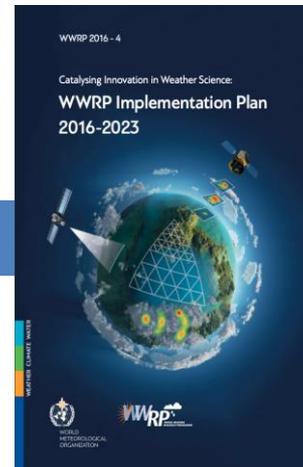
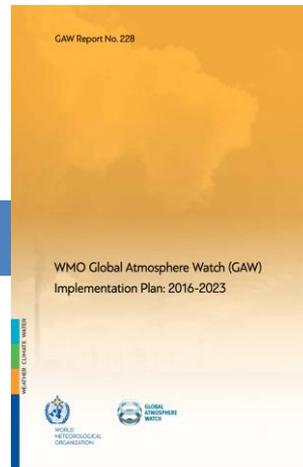
# WWRP: Capacity building within the HIGH impact Weather (HIGHWAY) in E Africa

- From 15-18 July 2019 radar interpretation workshop in Dar es Salaam forecast offices
- Training was provided by NCAR radar meteorologists on interpretation of the radar data and how to make its use for nowcasting thunderstorms & severe winds
- By the end of the training workshop, forecasters and engineers were able to make 1 and 2-hour nowcasts of severe weather



# What capacity will WMO need in the future and what activities are needed to ensure that capacity is available?

- For WMO Research – the science priorities are outlined in the Strategic and Implementation Plans of WCRP, WWRP & GAW
  - Prioritize funding for activities that address these science priorities and measure the impact of those initiatives over time
- Recommendations on how to coordinate the work of the Panel with those of other constituent bodies → work in progress and needs future discussions





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Thank you  
Merci