

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



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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



Follow

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

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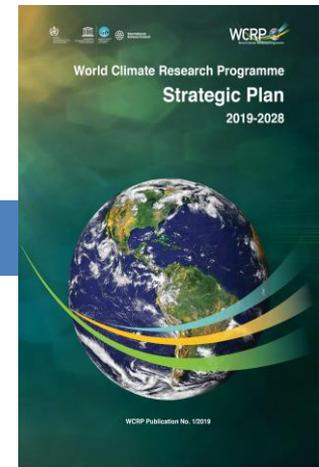
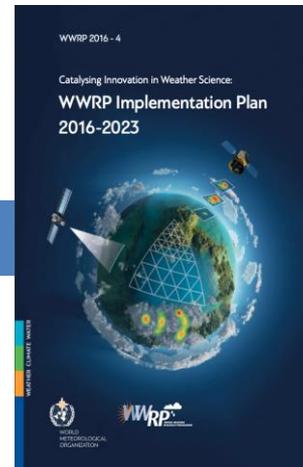
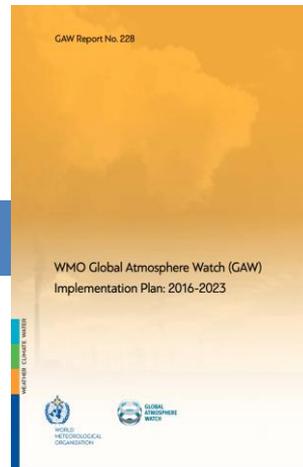
WWRP: Capacity building within the HIGH impact Weather (HIGHWAY) in E Africa

- 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