

First WMO Data Conference Workshop,

Changing Landscape of Weather and Climate Data: Perspectives of NMHSs in RA-1

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WEATHER CLIMATE WATER
TEMPS CLIMAT EAU



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Outline

- 1. WMO Policy on international data exchange**
- 2. Need for exchange of observational data**
- 3. RAI Expectations**
- 4. RAI Perspectives**
- 5. Conclusion**

1. WMO Policy on international data exchange

- ❑ International exchange of meteorological data is a policy of WMO since its establishment in 1950.
- ❑ Throughout the timeline WMO has come up with various Resolutions and Guideline on International Data exchange (eg. Resolution 40 (Cg-XII), Resolution 25 (Cg-XIII), Resolution 60 (Cg-17)).

1. WMO Policy on international data exchange, cont..

- ❑ The resolutions aim at strengthening the international exchange of weather and climate data, for improved accuracy and reliability of weather forecasts and services for socio-economic sectors in all Member States,
- ❑ However WMO RA1 Members are at various levels of implementation of these resolutions due to limited capacities in infrastructure for data observation and exchange.

2. Need for international exchange of data

The International data exchange is important for the following reasons:

- ❑ To improve and enhance the quality of NWP products available to Members specifically increased accuracy and reliability of forecasts for efficient service delivery especially in early warning systems;
- ❑ To advance research and capacity building for improved understanding of the Earth system.
- ❑ To sustain WMO programmes at the global, regional and national levels.

3. RA1 Expectations

NMHSs in RA-1 have more or less similar expectations related to WMO policies on data exchange, among these are:

- ❑ Africa is vulnerable to the impact of climate variability and change; hence improved NWP Products for Early Warning is of paramount importance.
- ❑ Large gaps and limited capacity in observation networks make the continent even more vulnerable since the accuracy of NWP products depends on the availability of observational data;

3. RA1 Expectations

- ❑ RA 1 expects the free and unrectricted data exchange to come up with altenative ways to sustain observation infrastructure in the region so as to increase data exchanged from the region.
- ❑ Increased data exchange will contribute to enhanced visibility and relevance of NMHSs in RAI as a result of reliable products and improved services delivery.
- ❑ RA I expects enhanced capacities of African scientists to be able to exploit data and conduct model output statistics.

3. Expectations from RA1 Cont..

NMHS in RAI have great expectations and are committed to ensure;

- ❑ An increase in the observational network in member states;
- ❑ Timely exchange of data;
- ❑ Monitoring and evaluation of data as well as model verification to provide feedback to global modelling centres
- ❑ Digitization of large amounts of dataset at NMHSs that are in paper format;

4. RA 1 Perspectives

- ❑ The ongoing collaboration in the RA1 between NMHSs and RCCs is commendable and need to be strengthened;
- ❑ WMO initiatives such as the Global Basic Observing Network (GBON), WIGOS/WIS as well as Systematic Observations Funding Facility (SOFF) may;
- ◆ Enhance observational infrastructure especially in RA 1 Members.
- ◆ Increased Access to better NWP and Climate products through enhanced Global NWP which is an essential backbone for all products and services provided by all Members.

5. Conclusion

- ❑ Data exchange among WMO Members is critical for improving NWP products used for Weather and Climate Forecasting.
- ❑ There is a need to balance between data exchange and capacity to sustain observation infrastructure in Member States,
- ❑ There is a need of NMHSs to continue being recognised as the authoritative voice on weather, climate and water in Member States;
- ❑ I trust that the forthcoming data conference together with the ongoing related WMO initiatives will be important platforms to achieve this important goal while addressing the existing challenges for the benefits of all Members.

Thank you Merci



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