1

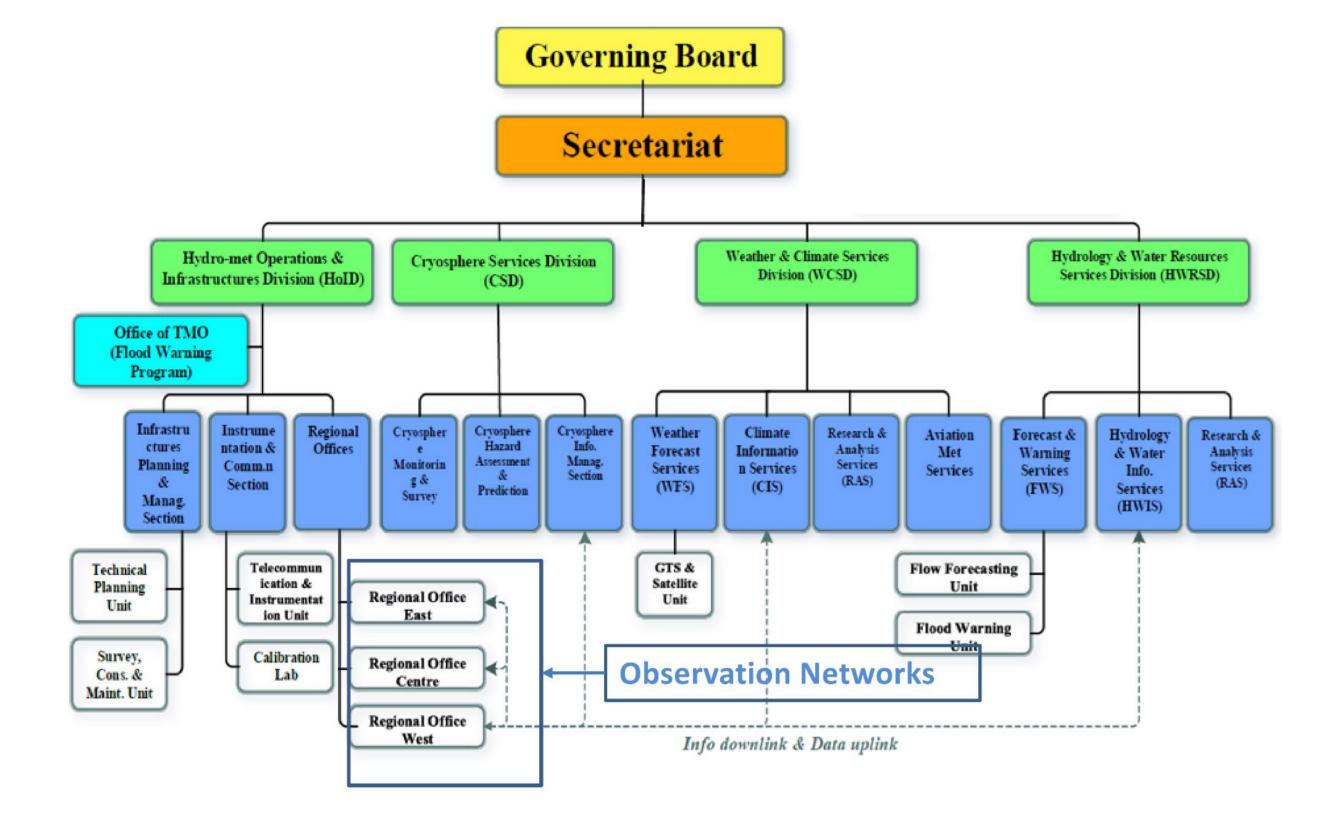
Session 3.3 Country report Bhutan

Phuntsho NAMGYAL

National Center for Hydrology and Meteorology

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2. Observational organization structure



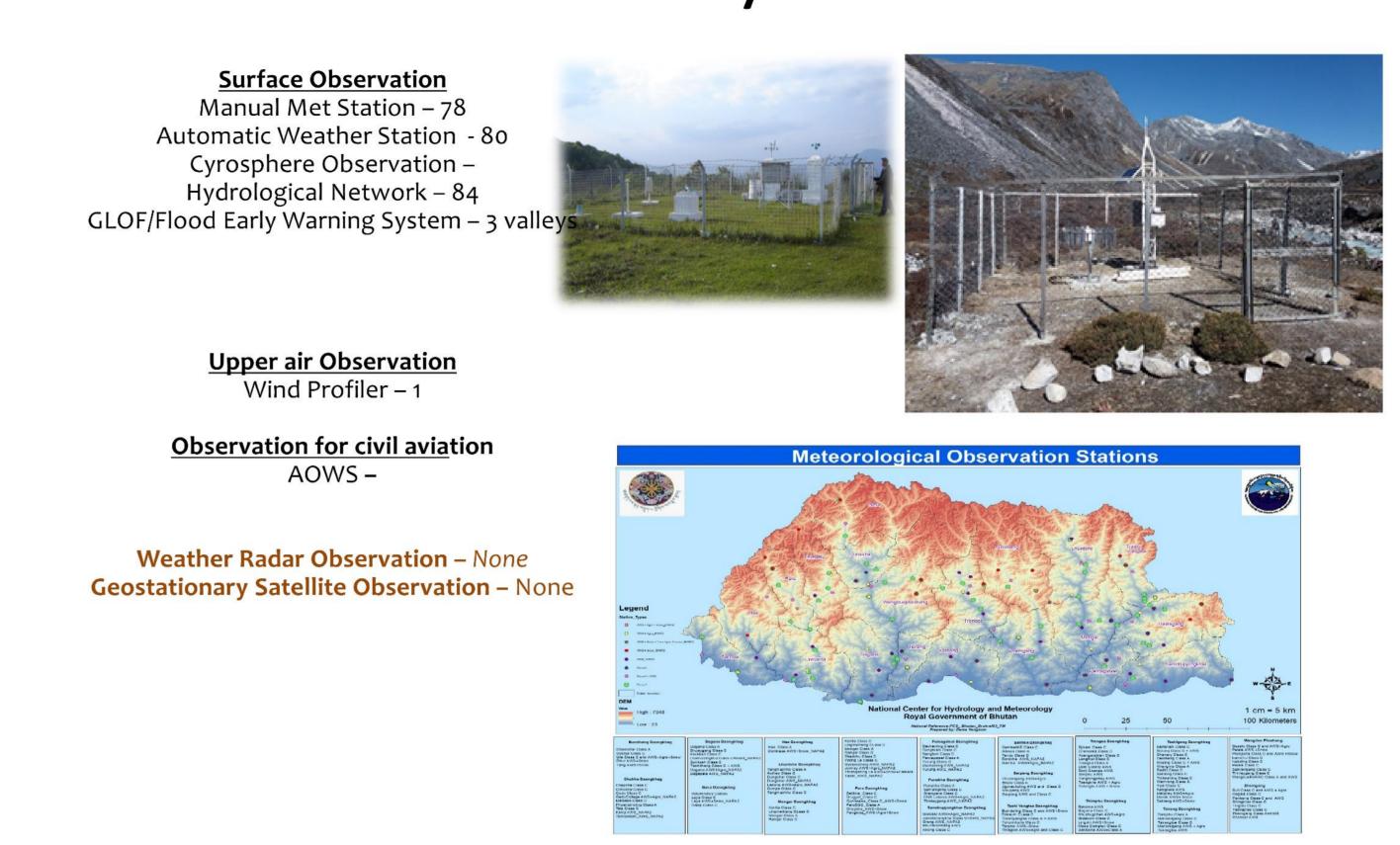
5

4. Integrated use of observation data

- We are planning to install weather radar
- Planning to use rainfall data with soil data to give information on landslides
- Currently we use data from manual and automatic weather stations only integration
- Rainfall data with water level information to come out with inundation mapping

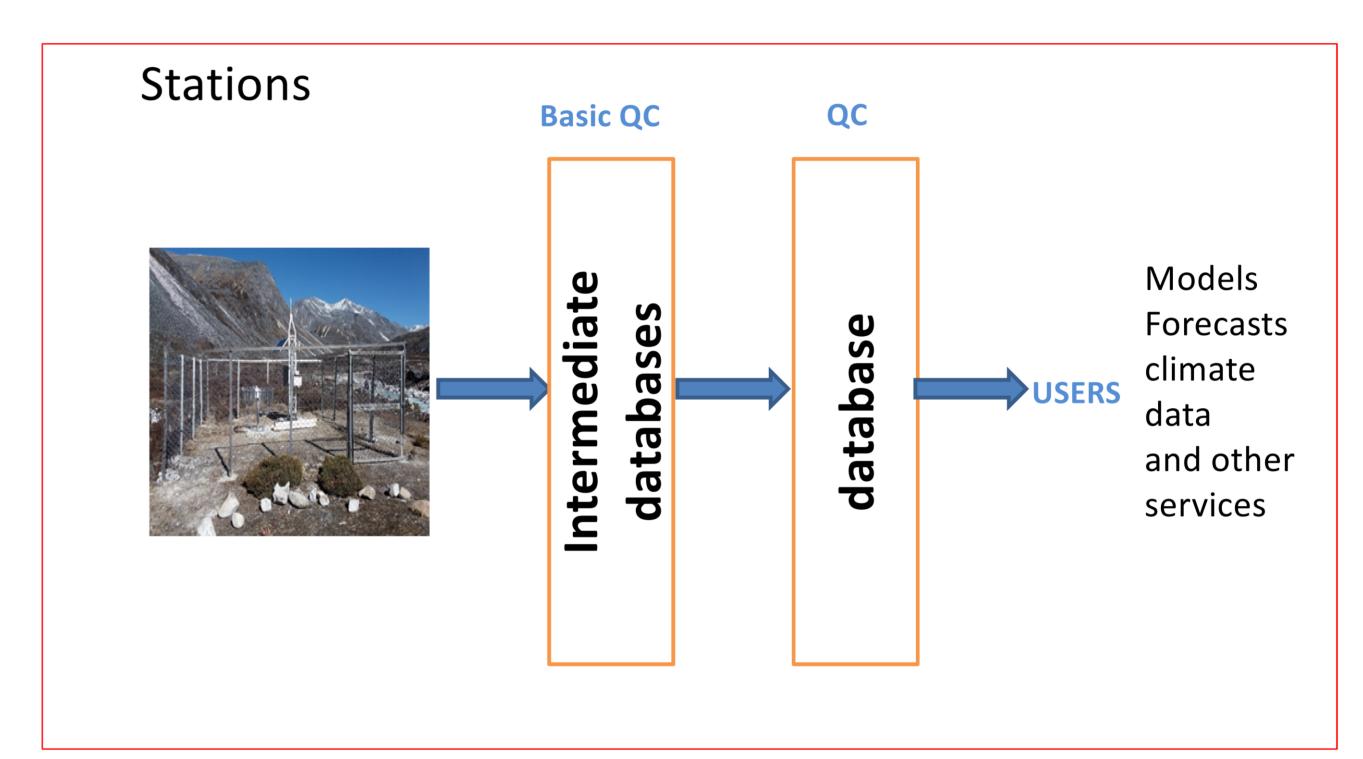
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1. Observation system overview



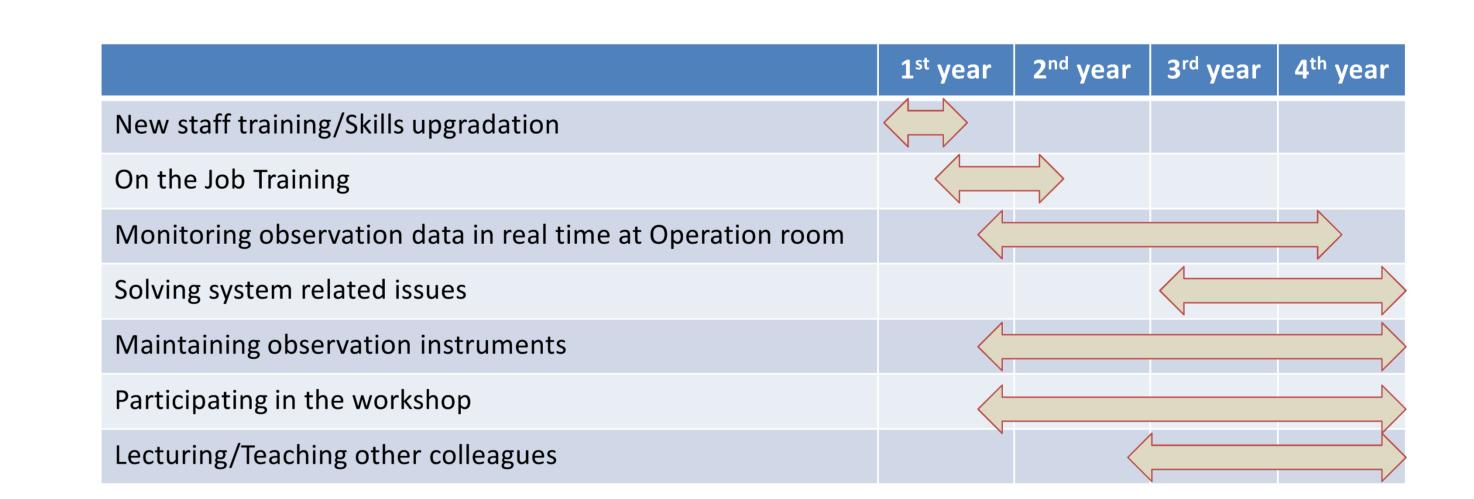
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3. Quality management of observation data



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5. Observer/expert training timeline



6. Plan for developing products

FY	2018	2019	2020	2021	2022	20	23-2027
	Phase - 1		Phase - 2			Phase - 3	
Provision of materials and trainings for users	 Learn more about WIGOS and related activities Attend workshops and trainings provided by WIGOS circle Learn about product specification / observational network requirements etc from WRCs Make plans to have better linkages /collaboration with other RA-II members and WRC 		 Engage in collaborative works with other members Plans to standardize products Provide information and services to user 			•	Engage in information dissemination and services provision
Forecasting and provision of services to disaster risk reduction	 Improve observational data quality Have good QC controls in Place Learn from WIGOS network about QCs/ observational techniques / product generation etc 		 Issue better quality forecasts Provide longer range forecasts and outlooks Develop flood hazard maps Develop landslide maps 			•	Develop flash flood guidance Provide more accurate 7 days forecasts More flood hazard maps

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7. Expectation for this workshop

- To have common and proper understanding about WIGOS and its activities
- Learn from WRCs regarding the services that can be availed by the members
- Learn key issues on WDQMS, OCAR and other related forums of WMO
- To source material and knowledge for lecturing to technicians, engineers in my office
- Making meaningful and firm relationships between participants to exchange useful information after the workshop