



Hydro Service Delivery Initiative and Contributions in South Asia

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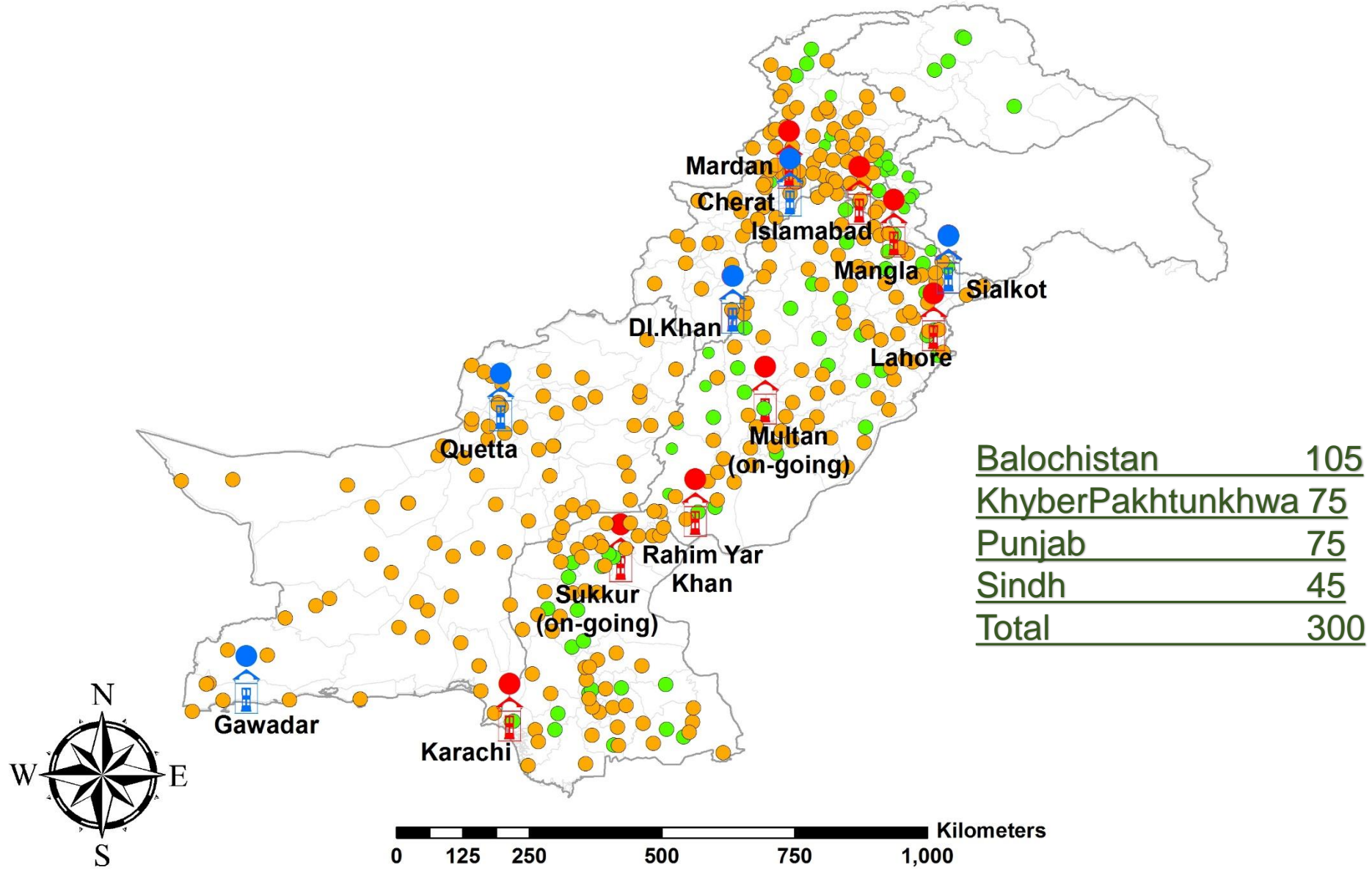
Pakistan Hydro-Met & Climate Services Project (PHCSP) Overview

Overall Objective	<p>The main objectives of PHCSP are:</p> <ol style="list-style-type: none"> 1. The hydro-met data base will be extended up to Tehsil levels, particularly in western and remote areas to strengthen the EWS of the country. 2. Impact-based weather/flood forecasts for public and farmers' community through improved hydro-met data collection and transmission. 3. Improvement of CDPC, RCDPCs and Capacity Building to handle big Data. 4. Modern & State of the Art Advanced Technology 5. High Quality Service delivery 	
Total Value	<p>PKR 9,600 million (US\$ 60 million) funded by World Bank <i>{1US\$@RS:160PKR }</i></p>	
Project Duration	<p>48 Months (As approved in the PC-I) however 2.5 years are given to PMD for implementation</p>	
Location & Number of Districts	<p>All districts of Pakistan with Head office at PMD, Islamabad</p>	
Number of Beneficiaries	Total direct beneficiaries	Total Indirect beneficiaries
	All population of Pakistan	Agriculture , WAPDA, Energy , Aviation, Tourism, CAA, FFC, NDMA etc.

Major Areas of Focus

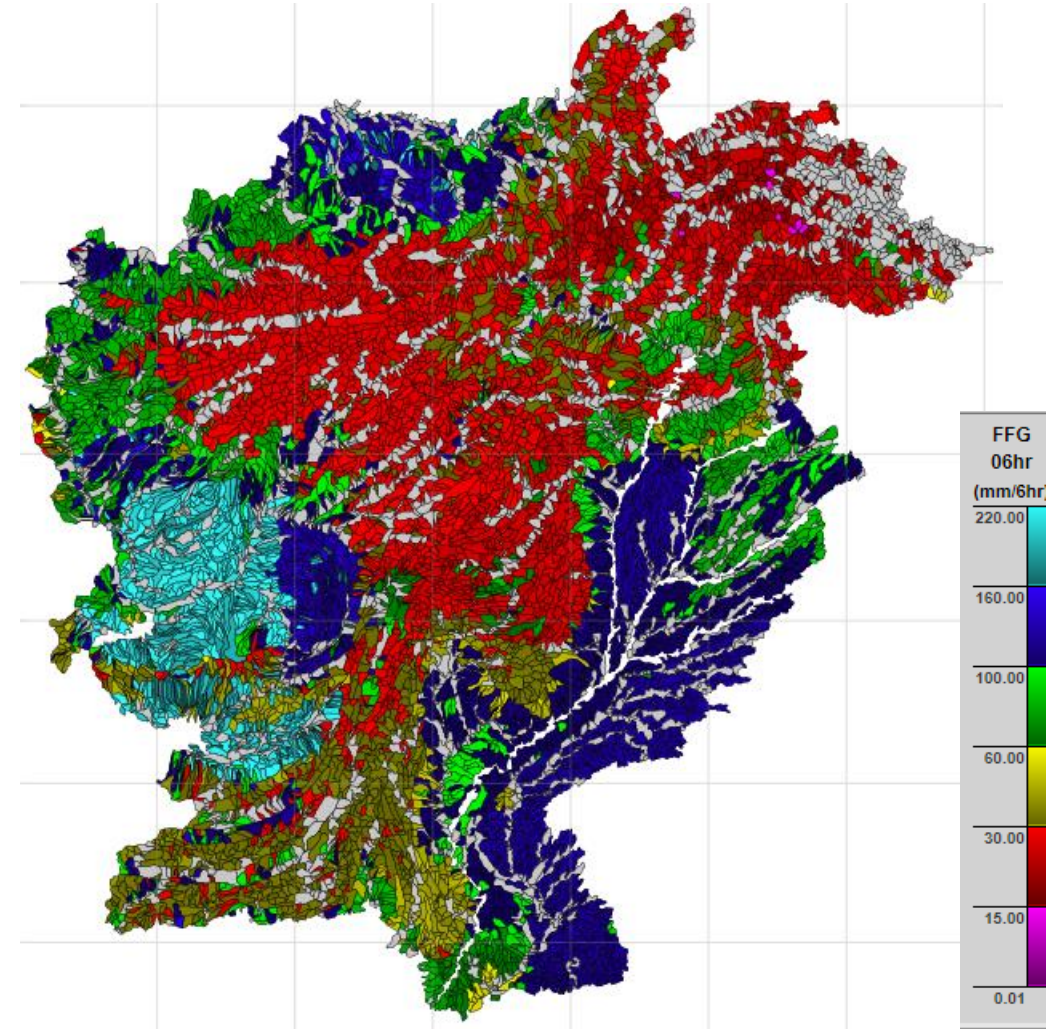
- a) 4 Weather Radars Quetta, Sialkot, Gwadar and Cherat
- b) 300 Automatic weather Stations for real time Hydro meteorological data observation at Tehsil levels.
- c) 07 Wind Profilers for major Airports as per ICAO Audit compliance
- d) 01 High Performance Computer 220 Tera Flop
- e) 16 Lightning Detection System as per ICAO Audit compliance
- f) 06 Regional Agromet Centers and 100 New Agromet Data centers.
- g) Up-gradation & Strengthening of Institute of Meteorology and Geophysics.
- h) Improvement of PMD Service Delivery System

Existing & Proposed Automatic Weather Station



Regional Flash Flood Guidance System

- Afghanistan and Pakistan are part of Regional Flash Flood Guidance System (PARFFGS)
- The PARFFGS Server is running at Islamabad
- The server is installed at Pakistan Meteorological Department



Impact Based Forecasting Pilot (IBF)

With the technical support of [UK Met office](#), [UK Aid](#) funded, Asia Regional Resilience to a Changing Climate ([ARRCC](#)) and regional partners International Centre for Integrated Mountain Development ([ICIMOD](#)) PMD successfully completed IBF pilot project

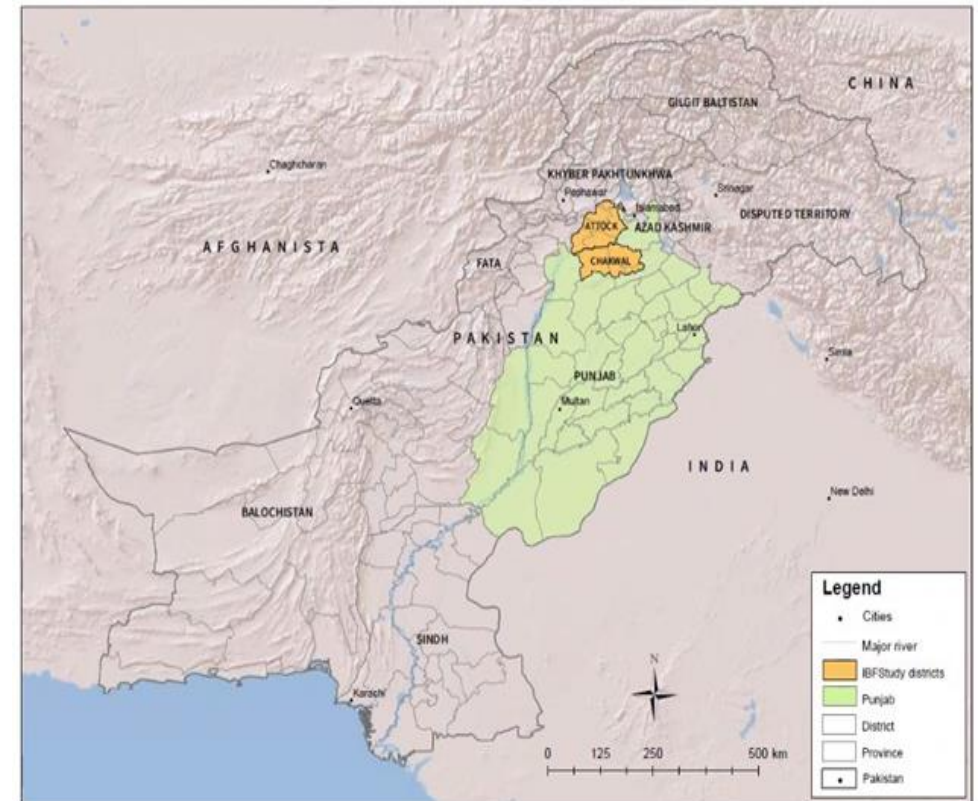
Hazard: Rainfall and temperatures

Impacts: Failure of rain fed crops (focus on maize and groundnut crops)

Area: Pothohar Plateau (specifically *Attock* and *Chakwal* Districts)

Recipients: Key stakeholders, extension workers, progressive farmers, and others identified by baseline survey

Duration: Kharif growing season (approx. April to August 2022)



WMO recognition during 2022 Floods



World Meteorological Organ...  · 3d ...

Torrential monsoon rains have caused devastating floods in [#Pakistan](#).

[@pmdgov](#) has been issuing regular warnings. Details: bit.ly/3clOHkW

This video via [@CLIMATEwBORDERS](#) shows the collapse of a hotel in the Swat District, Northwest Pakistan.

[#EarlyWarningEarlyAction](#)



10.1K views

 8

 106

 153





Devastating flooding overwhelms Pakistan

Pakistan is facing one of the worst flooding events in its history. The Government estimates that around 33 million people across the country are affected by the rains, floods and impacts such as landslides, killing at least 1,100 people and destroying infrastructure, homes, agricultural land and livestock.

The Pakistan Meteorological Department has issued repeated accurate warnings about rainfall, flooding and landslides, using WMO Flash Flood Guidance System warning products in addition to national and regional analysis to disseminate to the relevant national stakeholders as well as to the local population. The National Disaster Management Authority is also issuing regular updates on river flood. Without these warnings, the death toll would most likely have been even higher.

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WMO has also provided briefings and forecasts to the humanitarian sector and joins the rest of the international community in offering condolences.

In a video message, UN Secretary General Antonio Guterres said that “the people of Pakistan face the unrelenting

public.wmo.int/en/media/news/devastating-flooding-overwhelms-Pakistan

Thank you