

Working Group-I

Data Collection , Quality and Sharing

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Upper Indus Basin Monitoring Network

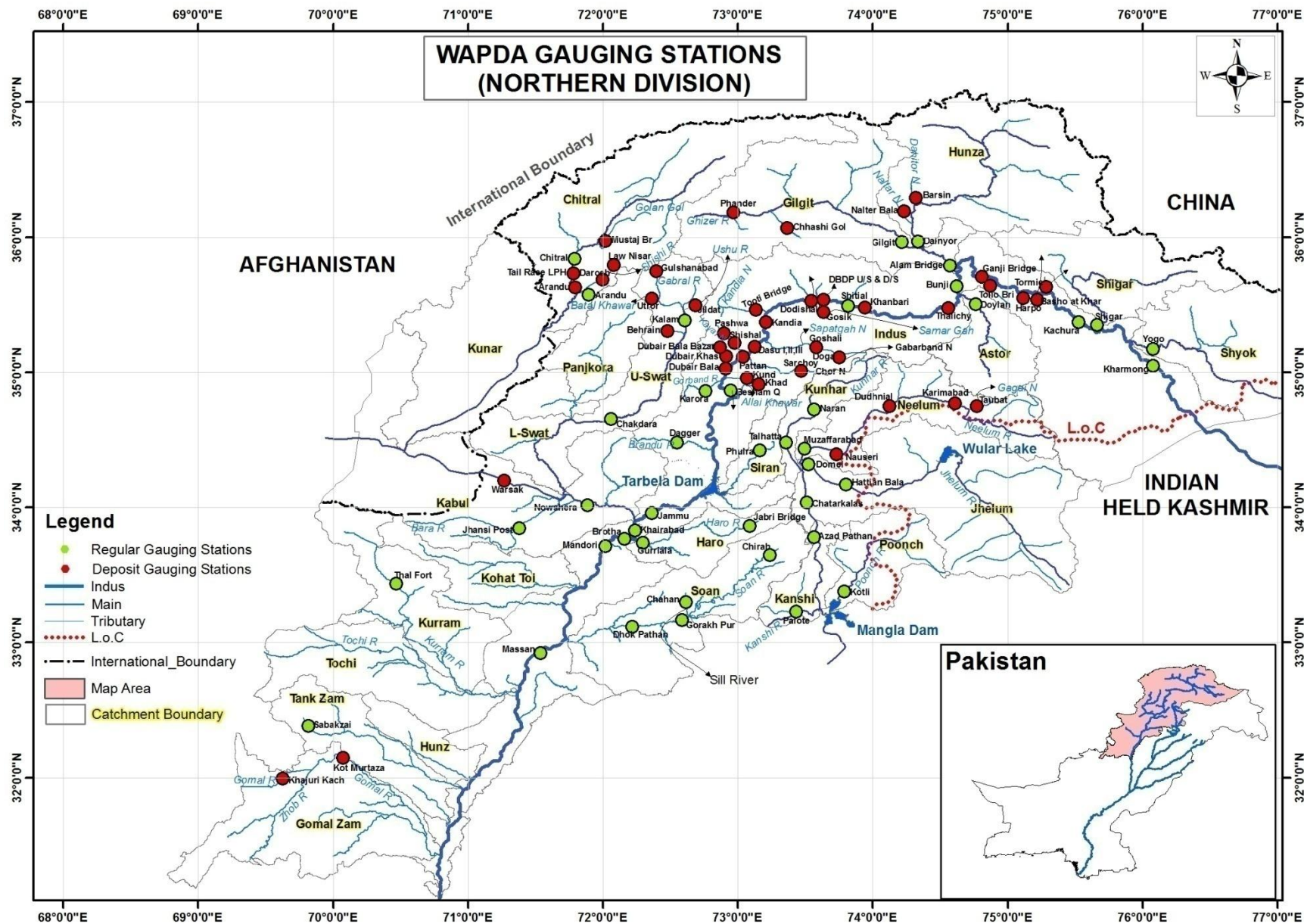
Working Group Meeting

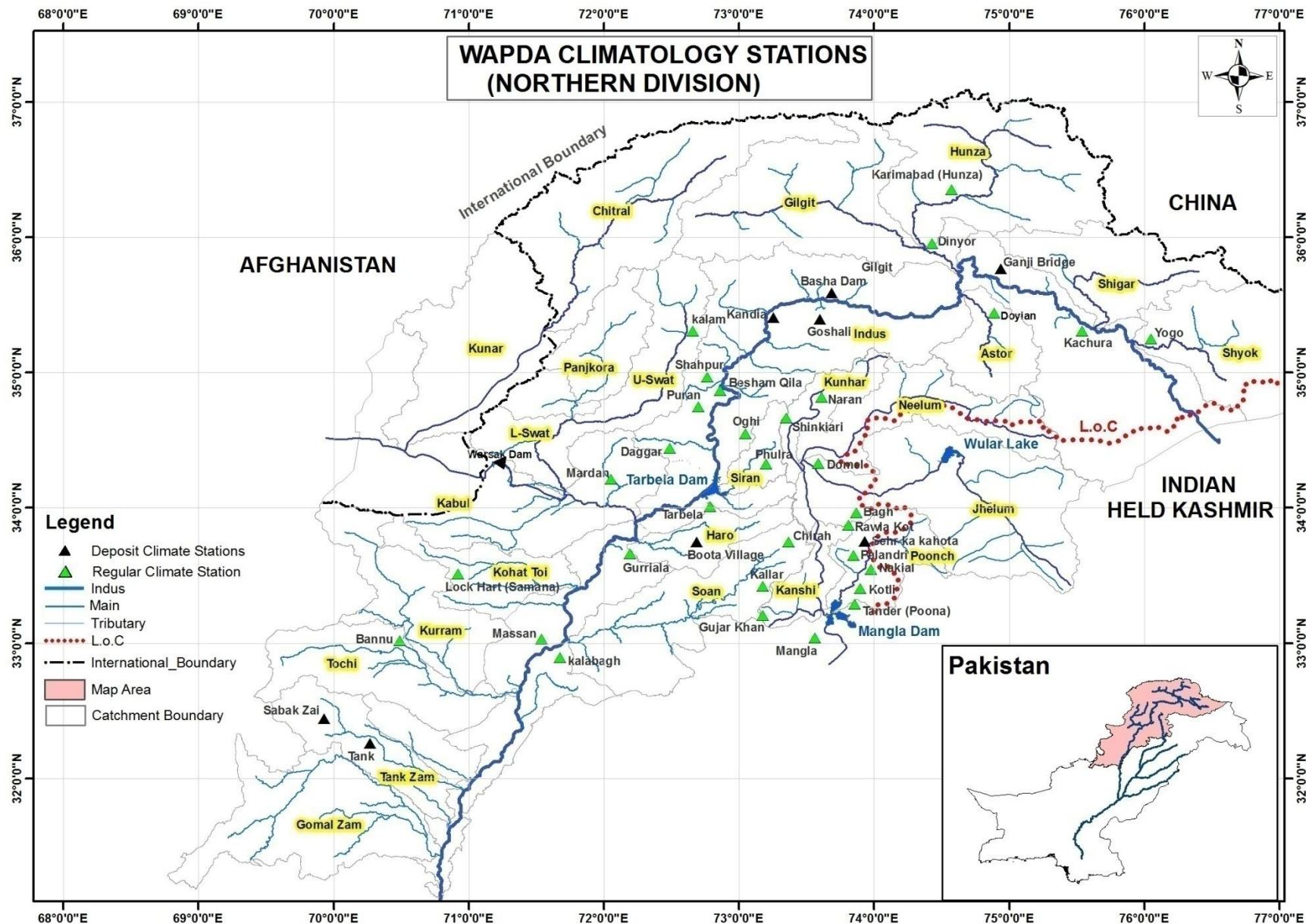
Islamabad- 21 Nov 2014

Progress

- WAPDA Metadata mailed to Dr. Ghulam Rasul (PMD) and Dr. Arun (ICIMOD)
- Daily Discharge Data from the outlet of Hanza basin at Dainyour, covering period from 1966 to 2010, has been shared with Working Group – II .
- Daily Weather Data from all three WAPDA Stations in Hunza (Khunjerab, Ziarat and Naltar) for period 1995 – 2012 has also been shared with Working Group -II

WAPDA MetaData
Some Slides from WAPDA
Hydromet Stations

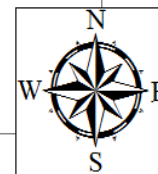




Observatory and Cableway at Besham



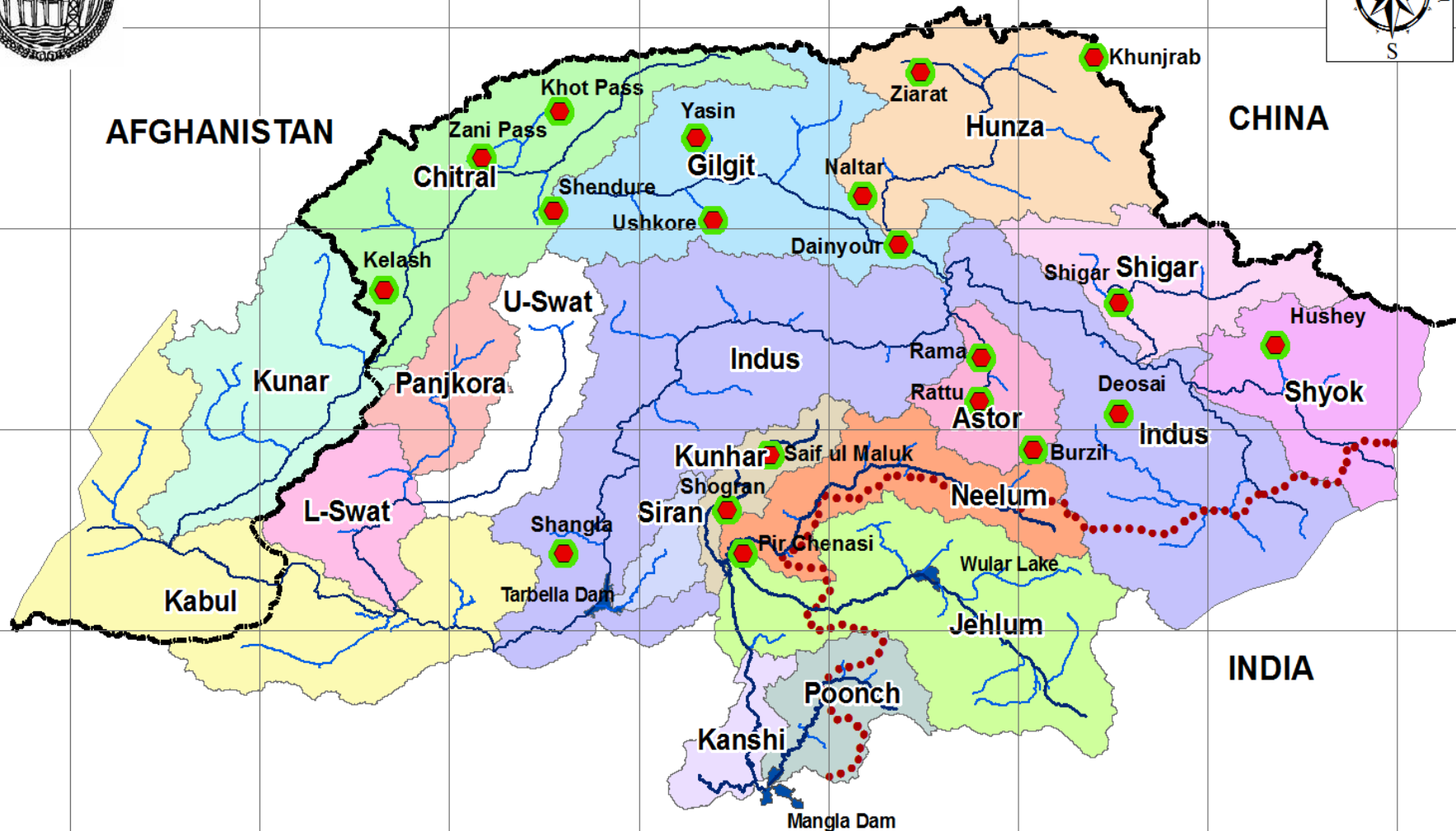
WAPDA D.C.P STATIONS



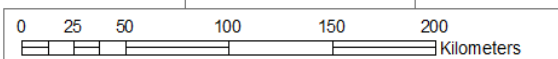
AFGHANISTAN

CHINA

INDIA



- Legend**
- Climate Stations
 - Tributary
 - River
 - ... LoC
 - International Boundary

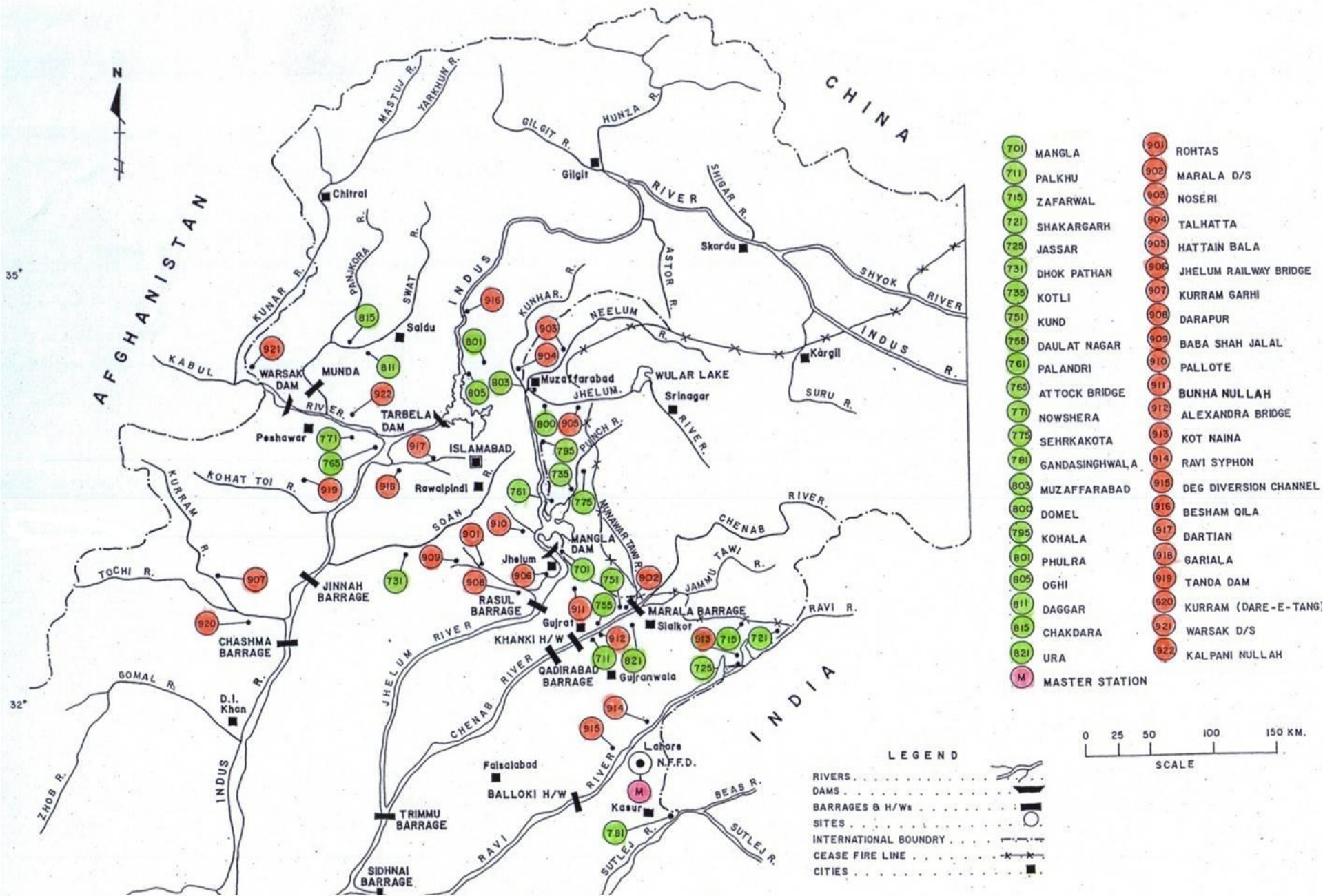


Pakistan Snow & Ice Hydrology Project, WAPDA

WAPDA DCP Station at Khunjerab



WAPDA Flood Telemetry Network



Typical FFT Station

Tippet Bucket



Pressure Transducer
for River Level
(not visible)



Fully Automatic Flood Telemetric Station at Kalpani Nullah - Risalpur

Issues

Criteria for AWS at HIGH ALTITUDES

As we all know, these differ in many respects from the valley based stations:

1. What places?
2. Which meteorological parameters are needed?
3. What sensors fulfill requirements?
4. Which temporal solutions are required (hours, days, months)?

Issues

Data Quality

There are a number of fundamental questions in view of data quality:

1. Obvious errors which are not eliminated,
2. Differences in the outcomes of stations not too distant from each other
3. Missing Data

Issues - Data Sharing

- WAPDA has some important Hydrologic and Climate data from Upper Indus Basin for its internal use. There are restrictions in sharing this data. The data is to be shared with the approval from Ministry. However, limited data is available for the ICIMOD-UIB Working Group partners which is already shared. Efforts are underway to get an approval for sharing the rest of Hydromet data from UIB with WG.

Issues

Structure of a common data base

Data in ASCII Format; In Columns (Excel or other spread sheet)

Units: SI units are desirable, Imperial Units are common in this region, sometimes conversions are good to explain (Langleys to W/M2 etc.)

Date Formats: YYYYMMDD; mmdyyy; dd/mm/yyyy; dd-mm-yy

17Nov2014; November17,2014.

Data Headers: Generally abbreviations are used Tmax; RH, SR, Pcpn although understandable by many users but needs to be explained at appropriate place.

Note:

Recommendation

It is always better to use standard methods for data collection, processing, data entry and dissemination, this will eliminate many ambiguities.

Therefore it is recommended to use standard practices in handling the data.

Thank You