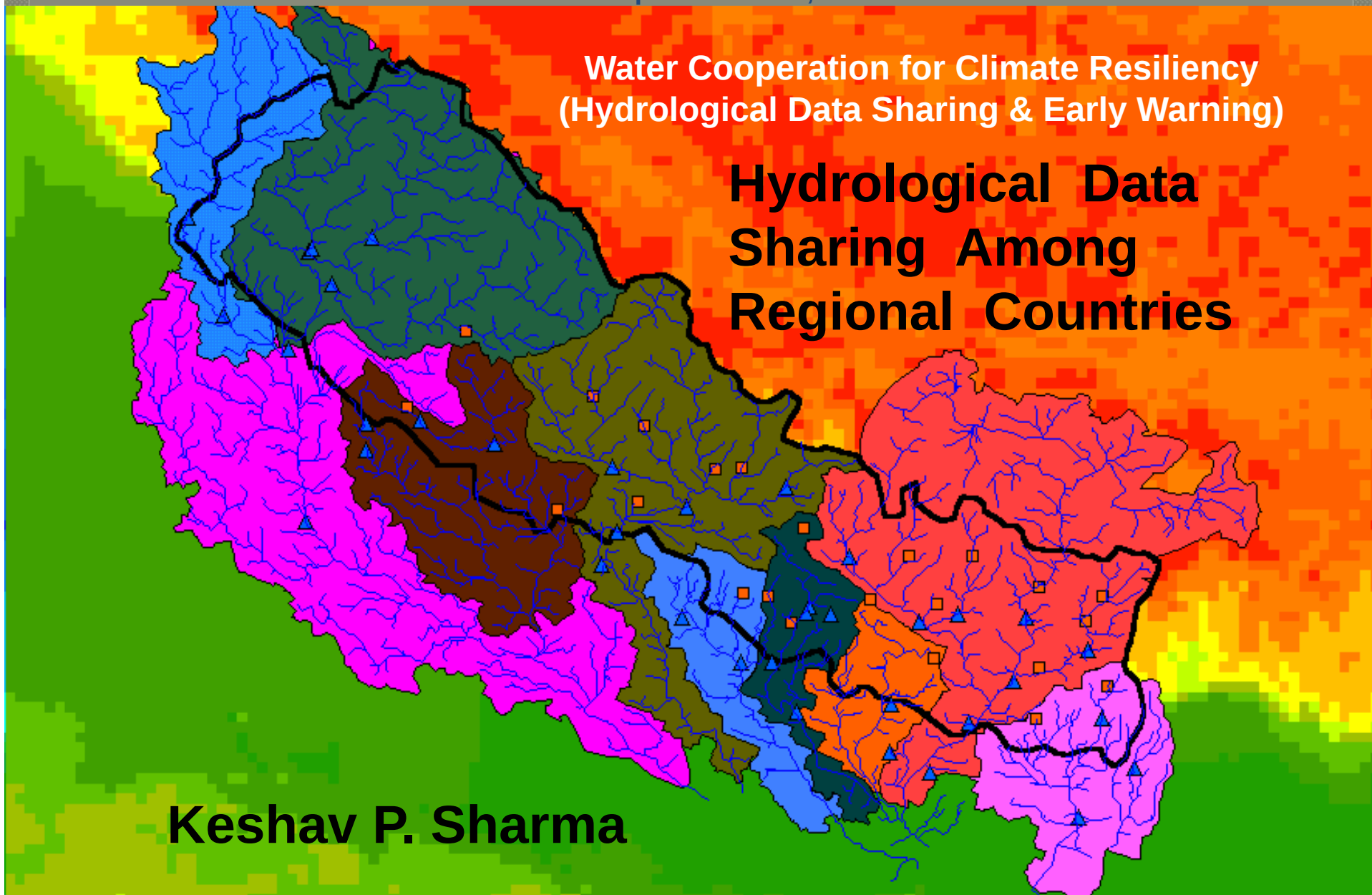


Regional Workshop on “Training Needs and Gaps Assessment
on Adaptation and Resilience to a Changing Climate in South Asia”
4-5 September 2013, Kathmandu

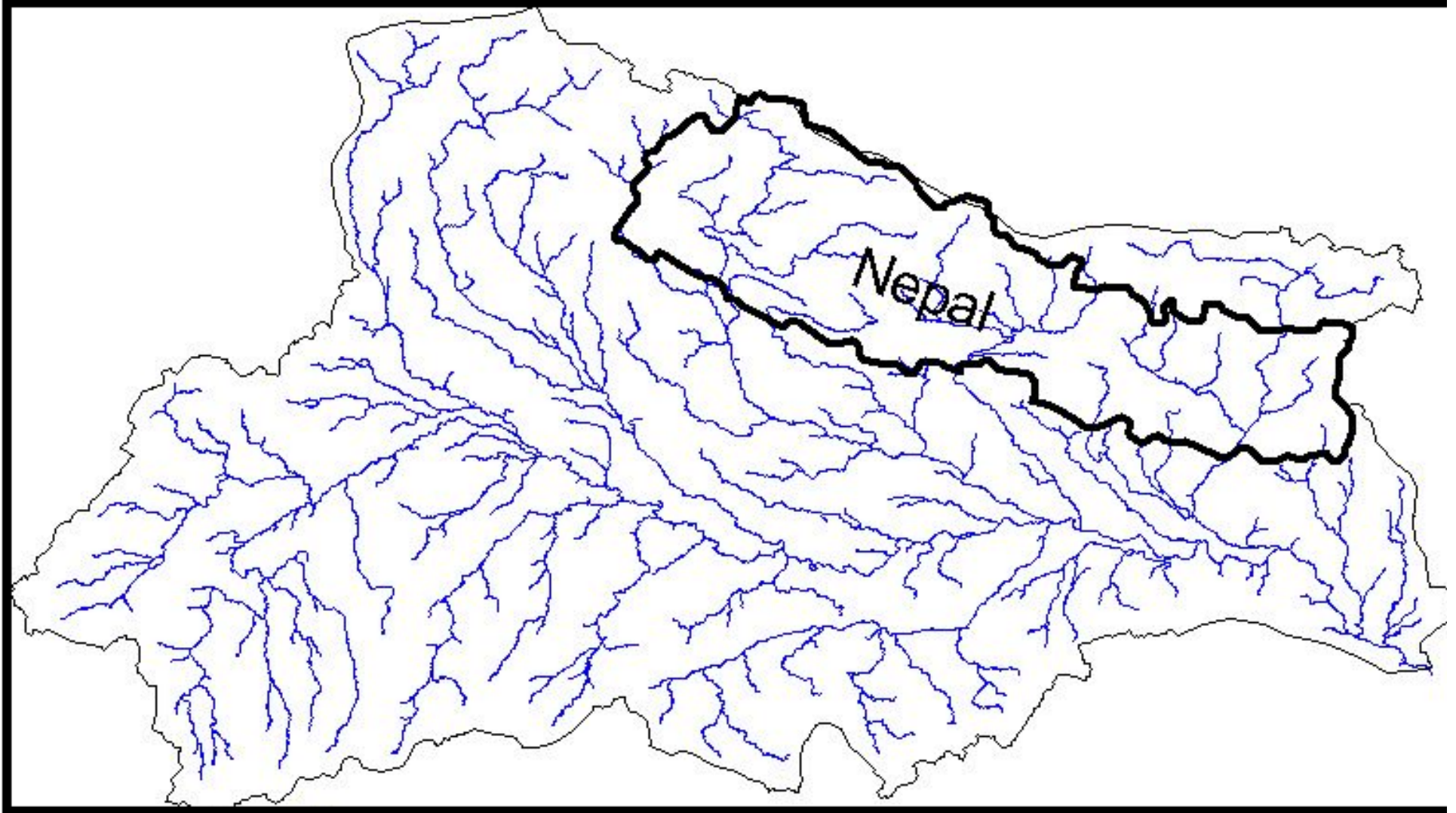
**Water Cooperation for Climate Resiliency
(Hydrological Data Sharing & Early Warning)**

Hydrological Data Sharing Among Regional Countries

Keshav P. Sharma



The Source of the Ganges



Nepal-India Cooperation

Secretary level meeting of Dec 1987, Kathmandu

- Nepal provide some real-time hydrological and meteorological data
- India provide similar data on two points d/s of the same river on reciprocal basis



NEPAL-INDIA JOINT FLOOD FORECASTING SCHEME

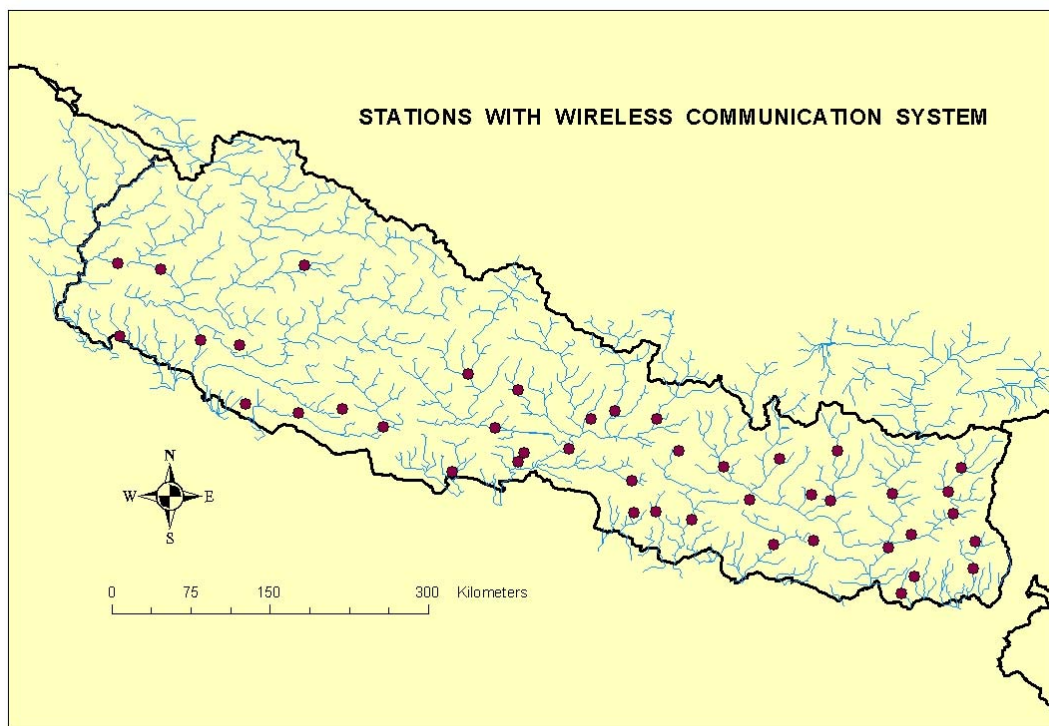
Stream gauge = 20

Rain gauge = 25

SSB sets transmit and receive data in Kathmandu with subsequent transmission to Patna

Initiated after a High-Level meeting in Kathmandu in March 1988

- Identified stations and equipment required for the scheme
- Start sending data beginning in June 1988



The secretary level Joint Committee on Water Resources (JCWR) meeting, Kathmandu, 1-3, October 2000

“Recognizing the importance of flood forecasting JCWR agreed to further enhance close cooperation in this field. Towards this end, it was agreed to form a committee on Flood Forecasting (CFF).”

RIVERS AND TARGET AREAS NEPAL-INDIA FLOOD FORECASTING SCHEME

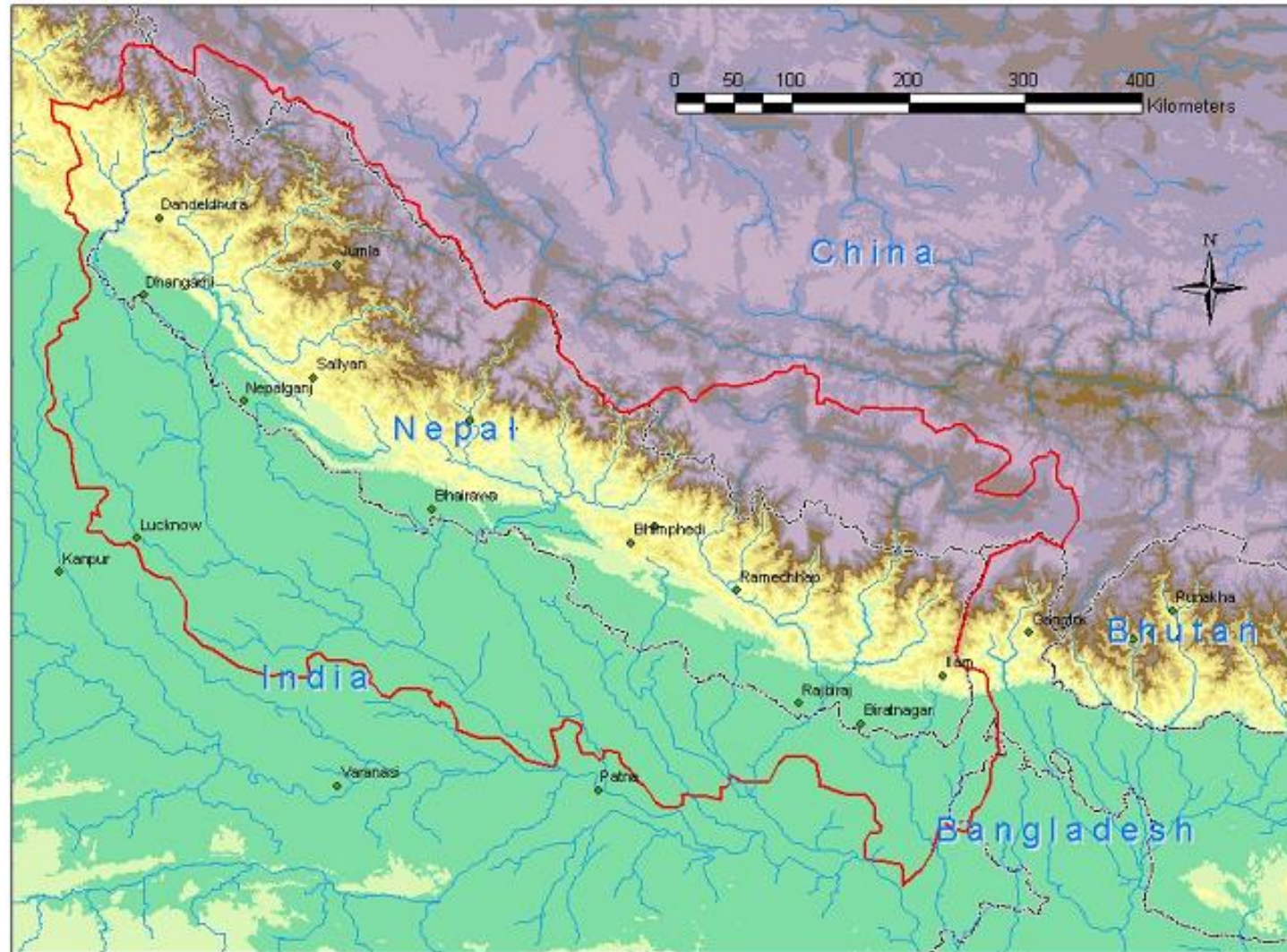


Figure 1.1. The major rivers and locations in the project area under the Nepal-India Flood Forecasting Scheme

30,000 km² in Tibet + 150,000 km² in Nepal + 120,000 km² in India = 300,000 km²

Nepal-Bangladesh Cooperation in Sharing Data

After a summit level meeting on 2 October 1988, a joint statement was included the following :

“The two leaders agreed that any solution to be permanent durable to the problems of natural disasters like flood or drought calls for regional co-operation involving every single country in the region. If this could be promoted through bilateral, trilateral, or regional study teams, both countries welcome them. . . .”

The joint Nepal- Bangladesh study team in 1989 recommended

“Of these measures, the development of flood forecasting and warning system seems to be relatively simpler activity and could be implemented in a shorter span of time. Hence may be taken up first.”

NEPAL-
BANGLADESH CO-
OPERATION



Government of Nepal
Ministry of Science, Technology and Environment
Department of Hydrology and Meteorology
Flood Forecasting Project

Home Real Time Data Manually Observed Data Current Forecast Community Outreach Projects Publications River Watch Rainfall Watch

Notice Board

No New Notice Available

News and Events

No New News Available

Flood Alerts

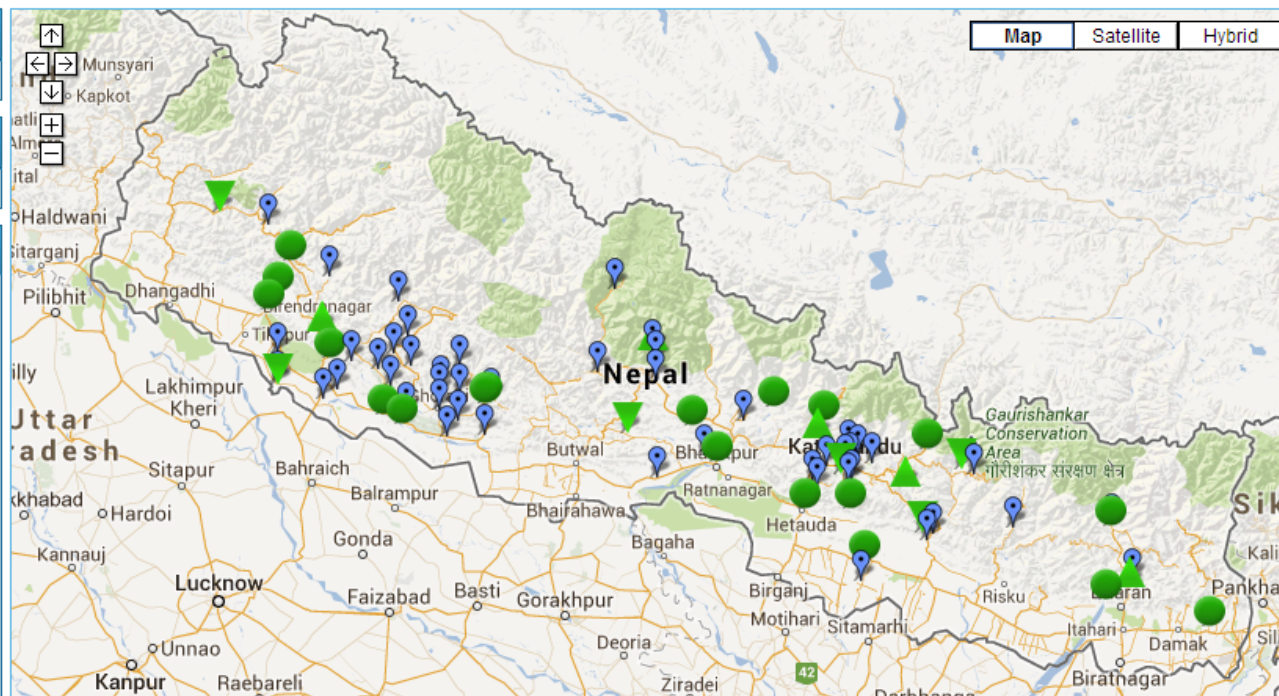
Water Level of Karnali at Chisapani at 2013-08-27 04:05:00 is N/A [N/A m] and N/A

Water Level of Babai River at Chepang at 2013-08-30 18:30:00 is steady [3.10 m] and **Below Warning Level**

Water Level of Rapti River at Kusum at 2013-08-30 18:30:00 is falling [3.11 m] and **Below Warning Level**

Water Level of Narayani River at Devghat at 2013-08-30 18:33:16 is falling [4.31 m] and **Below Warning Level**

Water Level of East Rapti at Rajaiya



PAN_....docx Detailed AGENDAdocx Final IPRFMR of BRC....zip

Show all downloads...



EN 6:35 PM 8/30/2013



HKH HYCOS Regional Flood Information System

ICIMOD
30

THREE DECADES
FOR MOUNTAINS AND PEOPLE

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▶ [Stations - Nepal \(HYCOS\)](#)

▶ [Stations - Pakistan](#)

▼ [Stations - KSL Project](#)

[Jumla](#)

[Humla](#)

[Chainpur](#)

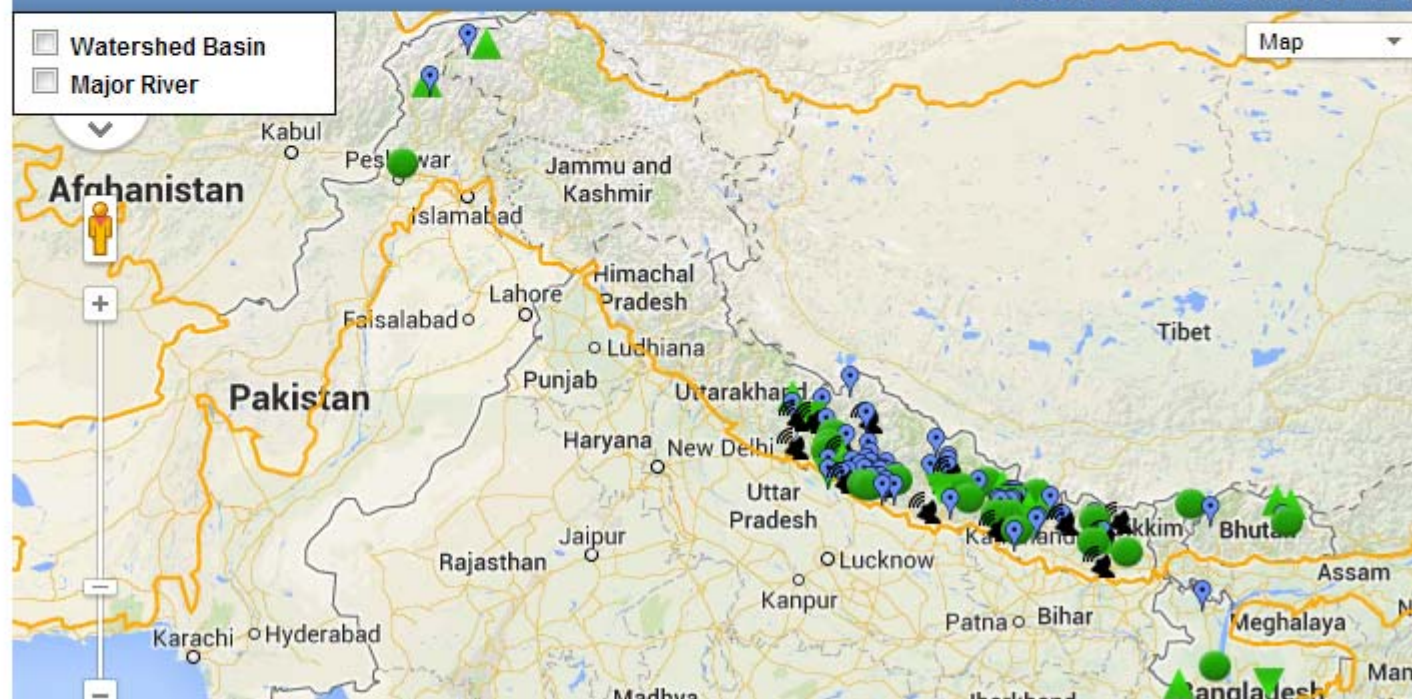
[Chamelia](#)

[Patan Baitadi](#)

▶ [Stations - GTS](#)

[Satellite Rainfall Estimation](#)

REGIONAL FLOOD INFORMATION MAP ▶



Regional Flood Information System in the Hindu Kush Himalayan Region

HKH-HYCOS: Joint Project (Nepal, Pakistan, Bhutan, Bangladesh, (China and India as observer) coordinated by ICIMOD with support from Government of Finland technical advice from WMO.

Online at 17:50 pm on 30 Aug 2013

Water Level of **Pachuwarghat, Nepal** at **2013-08-30 17:45** is **2.15m**

Water Level of **Mulghat, Nepal** at **2013-08-30 17:45** is **3.92m**

Water Level of **Busti, Nepal** at **2013-08-30 17:30** is **3.40m**

Water Level of **Bahrabise, Nepal** at **2013-08-30 17:30** is **2.07m**

Water Level of **Chamelia, Nepal** at **2013-06-16 05:30** is **3.22m**

Water Level of **Sumpa, Bhutan** at **2013-08-30 18:00** is **4.56m**

Water Level of **Uzorong, Bhutan** at **2013-08-06 12:30** is **2.89m**

Water Level of **Trashi Yangtse, Bhutan** at **2013-08-30 18:00** is **2.58m**

Water Level of **Gunitsawa, Bhutan** at **2013-08-30 17:30** is **4.01m**

Water Level of Siraganj, Pakistan at **2013-08-30 17:45** is **11.25m**

Water Level of **Lalon Shan Bridge, Bangladesh** at **2013-08-30 18:00** is **13.69m**

Water Level of **Bhairab Bazar, Bangladesh** at **2013-08-30 17:45** is **5.22m**

Water Level of Nowshera, Nepal at **2013-08-30 17:00** is **1.53m**

Water Level of Gupis, Pakistan at **2013-05-12 19:00** is **1.57m**

Water Level of Kalam, Pakistan at **2013-08-30 16:00** is **5.02m**

Water Level of Siraganj, Pakistan at **2013-08-30 17:45** is **11.25m**



Thank You

