





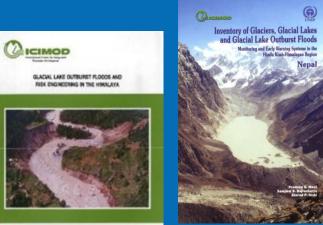
https://www.un-glaciers.org/

A Journey of Cryosphere activity in ICIMOD

Sharad Joshi, Cryosphere Analyst 21 January 2025

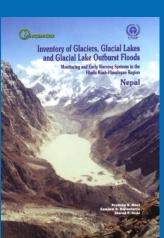


Building awareness & collecting baseline data

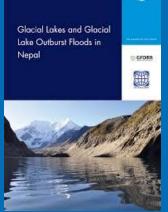


ICIMOD OCCASIONAL PAPER NO. 5 Kahmandu, Napal

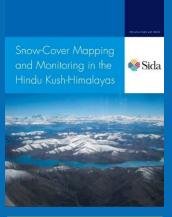
1986 Inventory Nepal, GLOF risk China, Himalaya Pakistan



2001-5 1st Glacier/Lake Bhutan, India,



2011 2nd Glacial Lake Inventory



cover Mapping Status of Glacier in HKH

2011 HKH

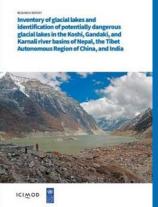
Snow



2020 3rd Lake Inventory



2024 HMA GLOF Data

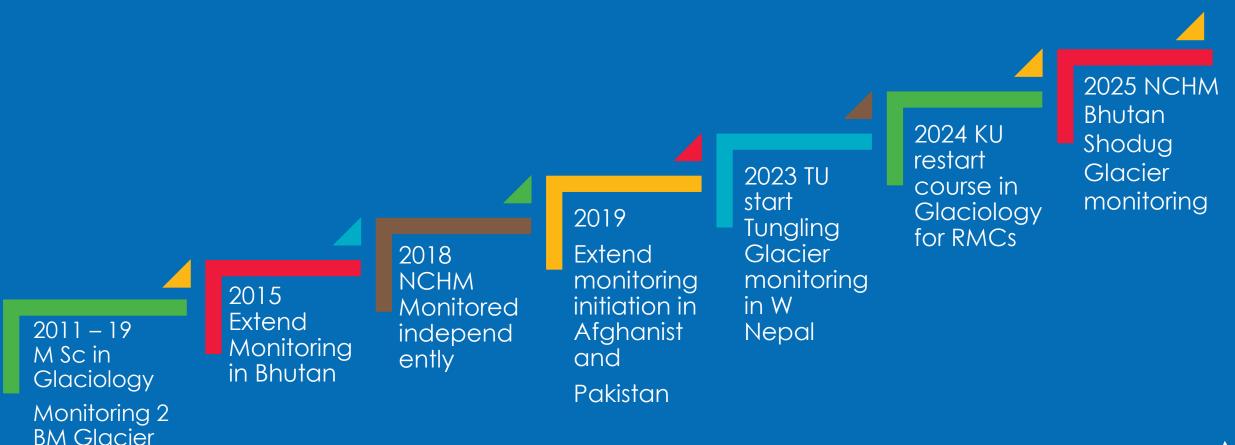


2025 HKH Decadal Glacier Mapping



Capacity building & fostering regional collaboration

in Nepal







Monitoring Capacity-building

- Set up and maintain mass balance stake network,
- Snow density
- Submit data to WGMS





Global Glacier Change Bulletin

and the International Hydrological Programme of the United Nations Education Scientific and Cultural Organization (IHP, UNESCO)

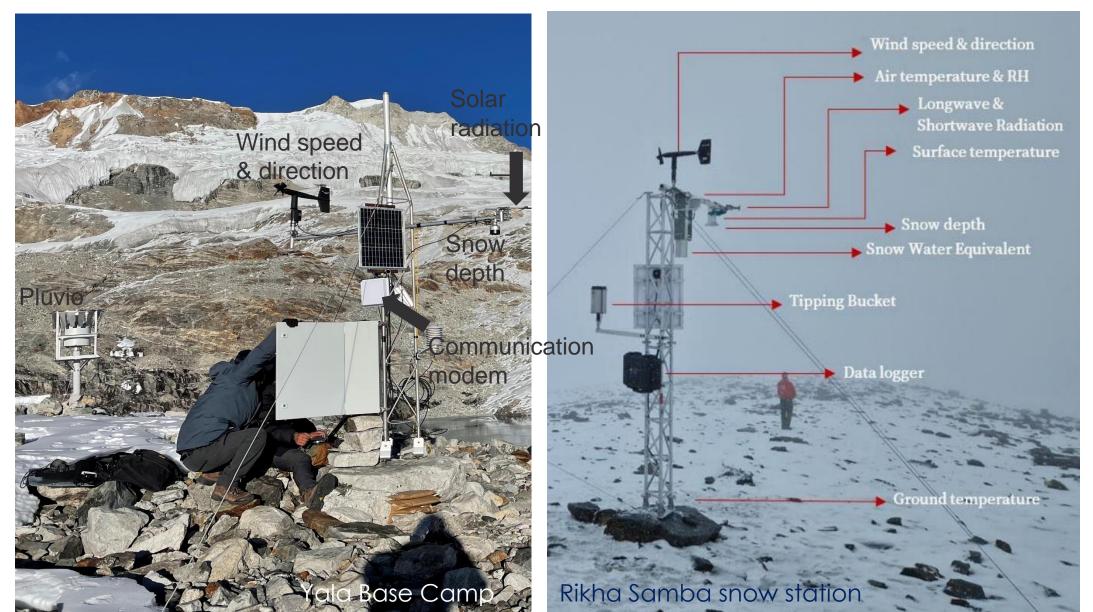


Compiled by the World Glacier Monitoring Service (WGMS)





Automatic Weather Station (AWS)



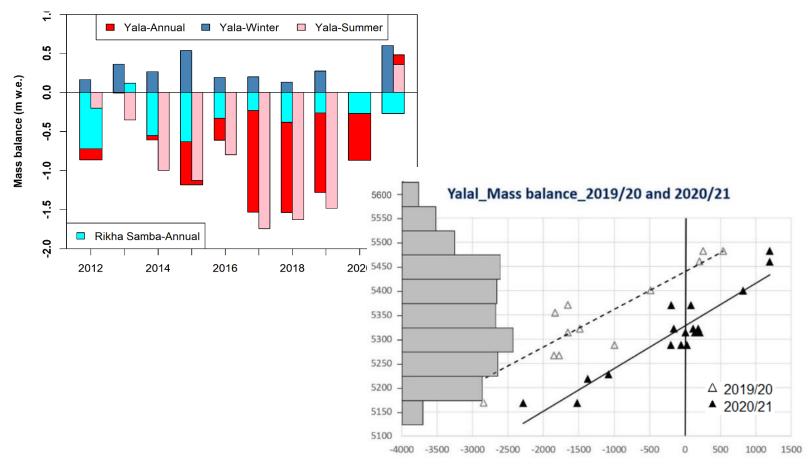


Nepal

Monitoring:

MB data to WGMS

Annual Rikha Samba



https://rds.icimod.org/ https://wgms.ch/data-exploration/



Bhutan

Monitoring:



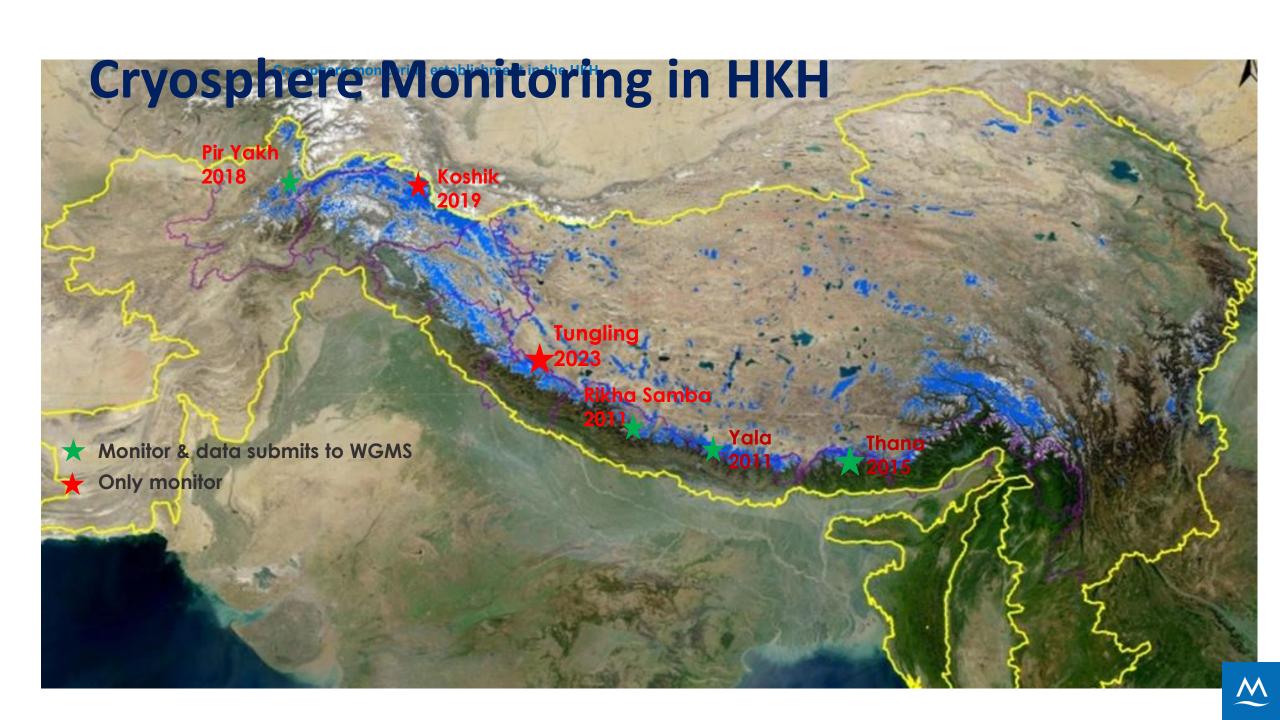


Monitoring:

Annual mass balance Pir Yakh, 2020













https://www.un-glaciers.org/

THANKS