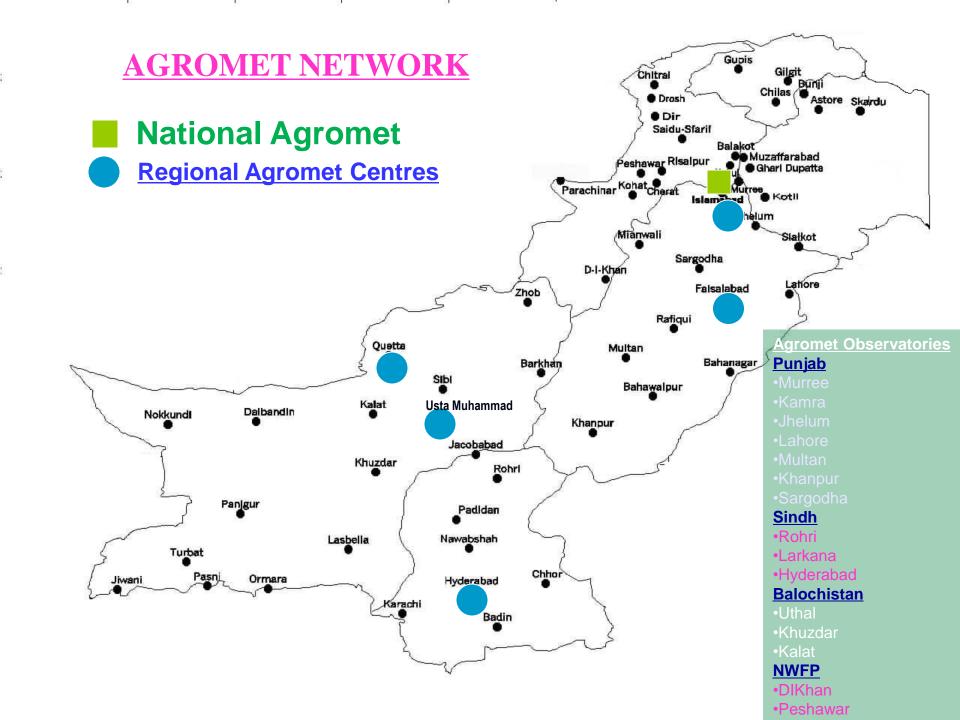
GEOSS Activities in Pakistan

Dr. Qamar-uz-Zaman Chaudhry GEO Principal of Pakistan Advisor on Meteorology & Climate Affairs Government of Pakistan

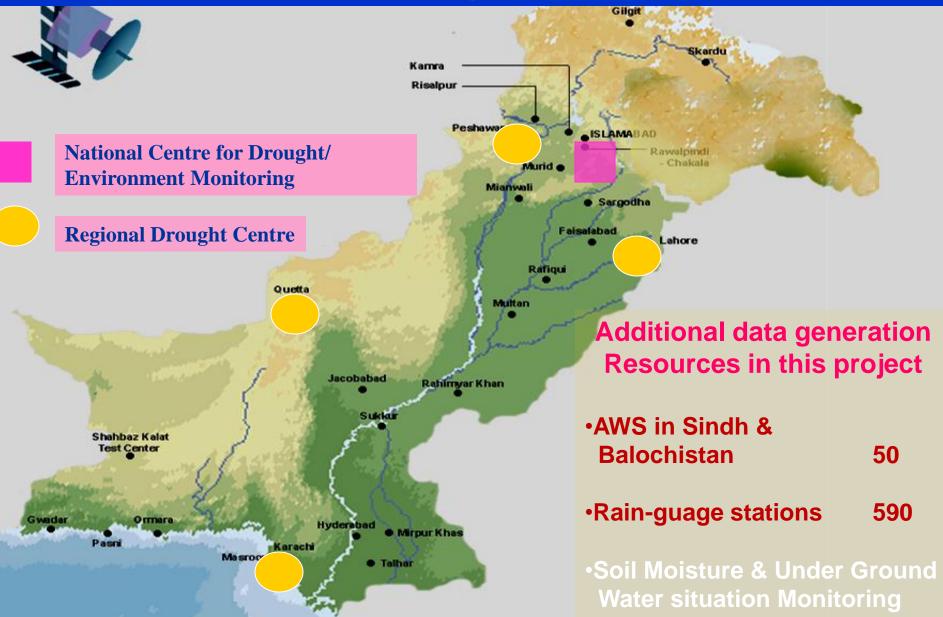
Salient Features

- Approval of Climate Change Policy by Cabinet of Pakistan
- Expansion Agromet and Drought Advisory Services
 Extensive Exploration of Potential of Renewable Energy Resources
- Enhanced Network for Cryospheric Monitoring and Disaster Risk Reduction
- Satellite Snow Estimation for Hydrological Modeling

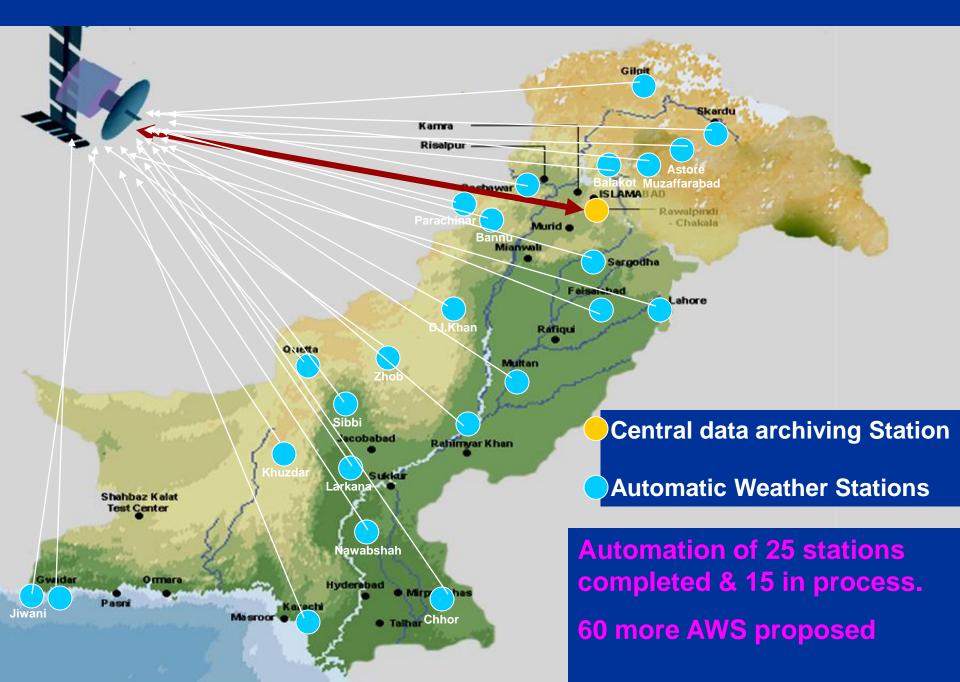
Drought/Agromet Advisory System

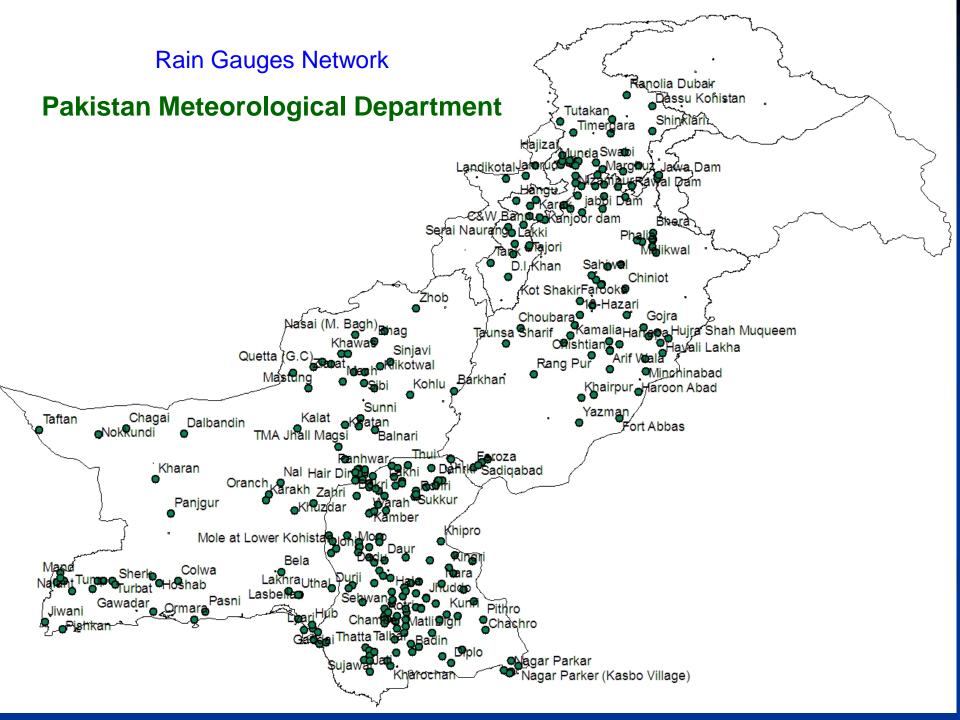


Drought/Environment Monitoring & Early Warning Centre



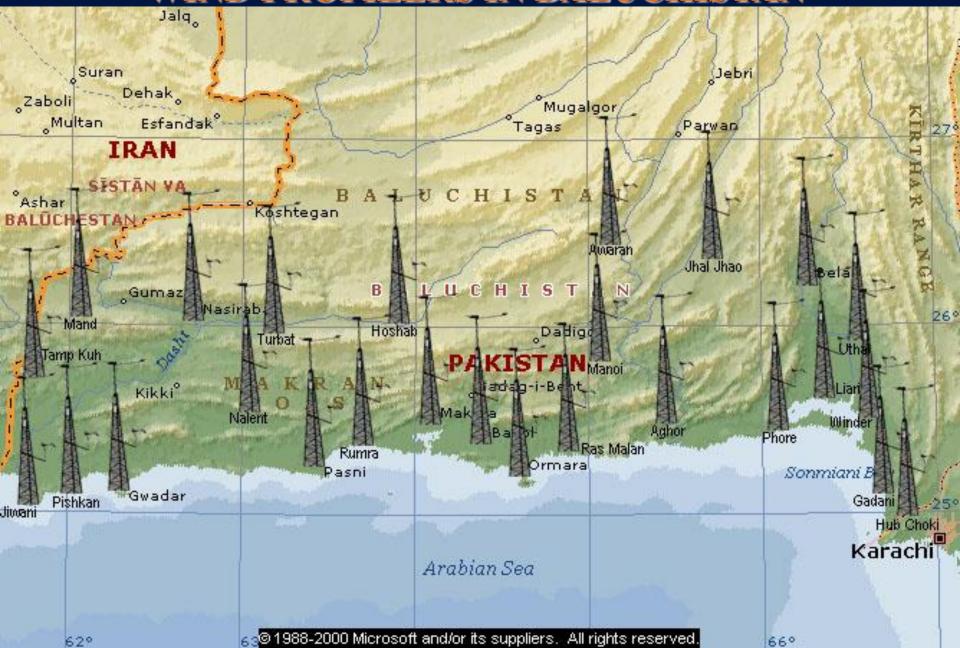
Automation of Meteorological Observing Network



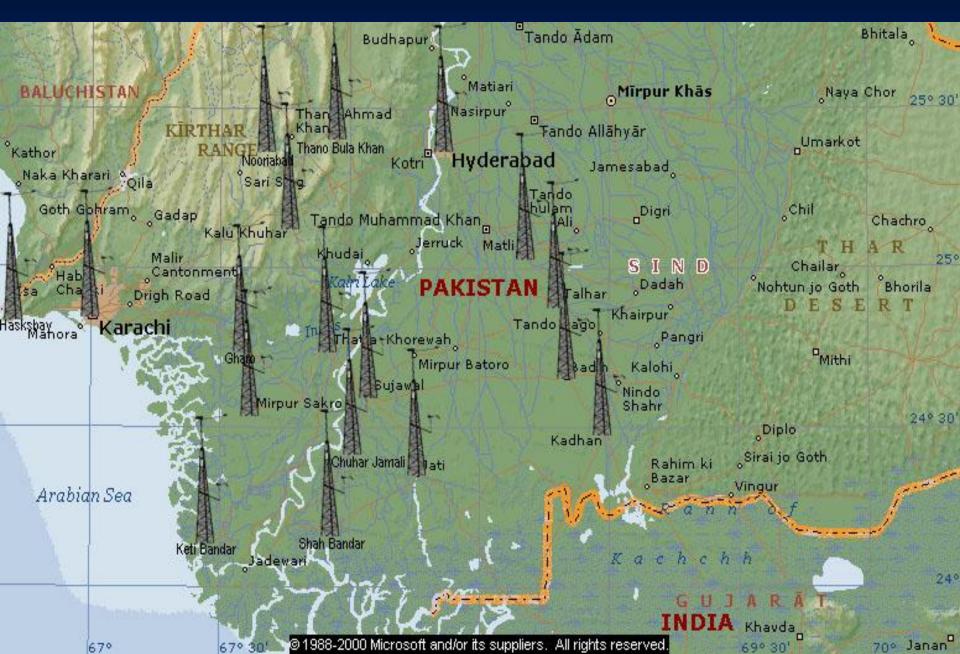


Renewable Energy Exploitation

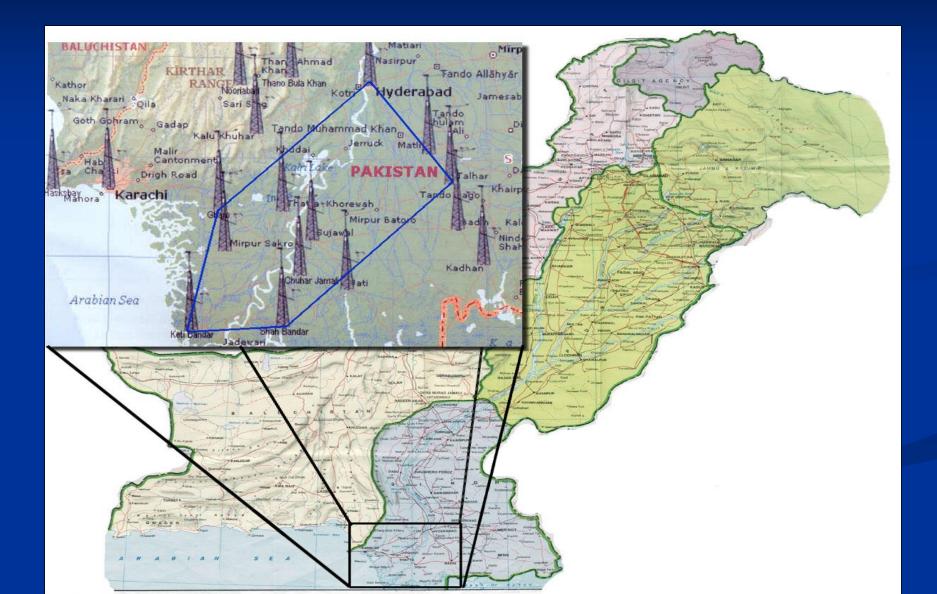
WIND PROFILERS IN BALUCHISTAN



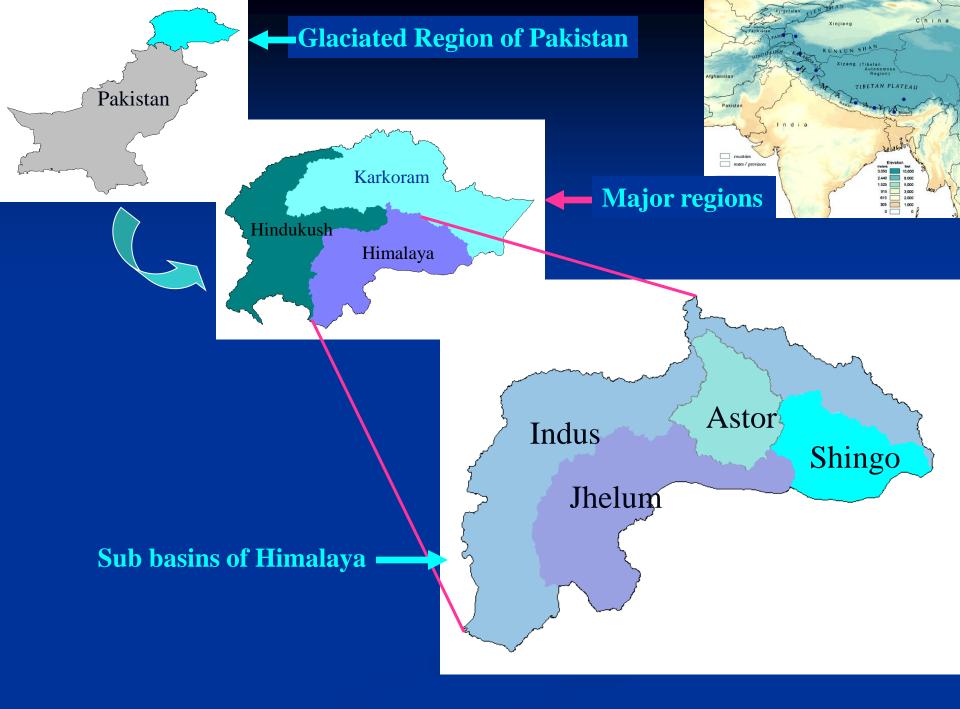
WIND PROFILERS IN SINDH



Potential area for wind power generation is around 9700 sq.km in Sindh



Cryosphere Monitoring



GLACIERS OF PAKISTAN

- >There are about **5024** glaciers in **10** river basins of Pakistan.
- >About **2419** glacier lakes found in these river basins.
- >Initially about **25** glacier lakes are found potentially dangerous for flash flooding (GLOF) Glacier Lake Outburst Flooding.

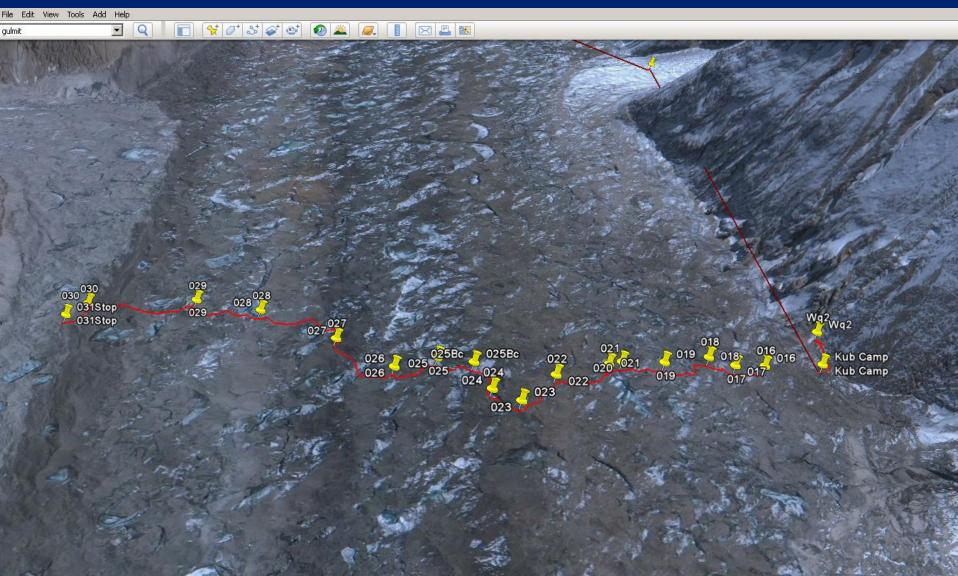
High Elevation AWS

Askole: Down the terminus of Baltoro Glacier (3015m asl) **Urdukas:** At the terminus of Baltoro Glacier (3925m asl) **Concordia:** Base camp for K-2 (4750m asl) **Hinarchi:** Near the snout of Hinarchi Glacier (3250m asl) **Passu 1:** In Ablation Zone of Passu Glacier (3195m asl) **Passu 2:** In Accumulation Zone Passu Glacier (4555m asl) **Batura:** In Ablation Zone of Batura Glacier (3290m asl) Network of manned-observatories has been increased to 21

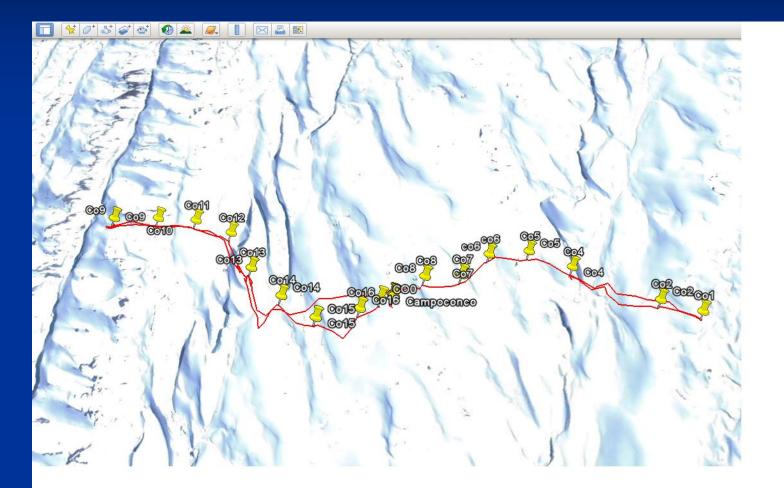
Ongoing Mass Balance Experiment Baltoro Snout 2011



Ongoing Mass Balance Experiment Baltoro 2011



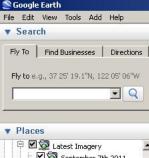
Ongoing Mass Balance Experiment Concordia 2011

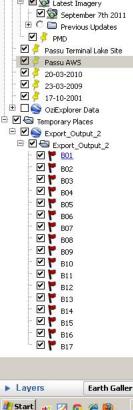


Ongoing Mass Balance Experiment Concordia to Gore 1 2011



Ongoing Mass Balance Experiment Urdukas to Paju 2011

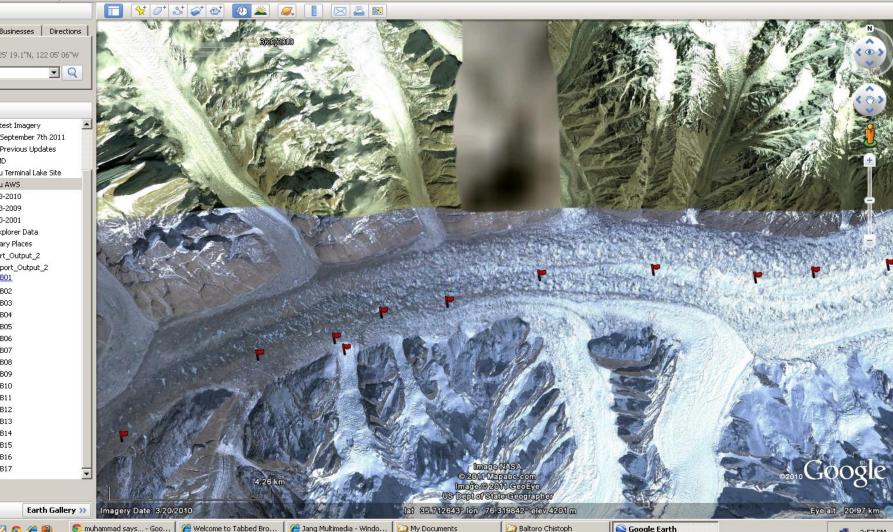




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Snowmelt Runoff Mode ...

Surface Mass Balance of .



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