



# WG 2: Water Cycle in Asia-Oceanic Region

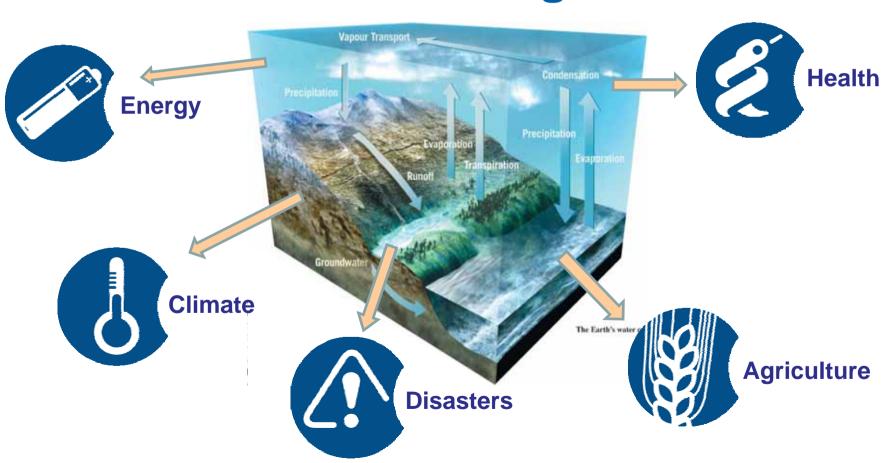
Data Sharing for a Transverse GEOSS
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# Integrated Water Cycle Management: A cross-cutting issue.







### **Disasters and Health**

Floods - number one cause of disaster in terms of loss of human life /property





More than 5 million people die each year from <u>water-borne</u> <u>diseases</u> (malaria and cholera)





# Impact of Climate Change and Pollution

<u>Climate change</u> - expected to have significant impact on weather patterns and hydrological cycle, affecting surface water availability, soil moisture, and groundwater recharge



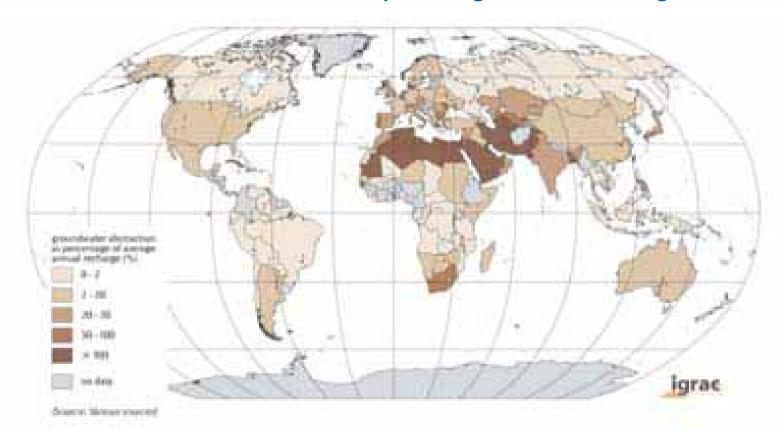


**Groundwater resources** - tapped at unsustainable rates and/or affected by pollution



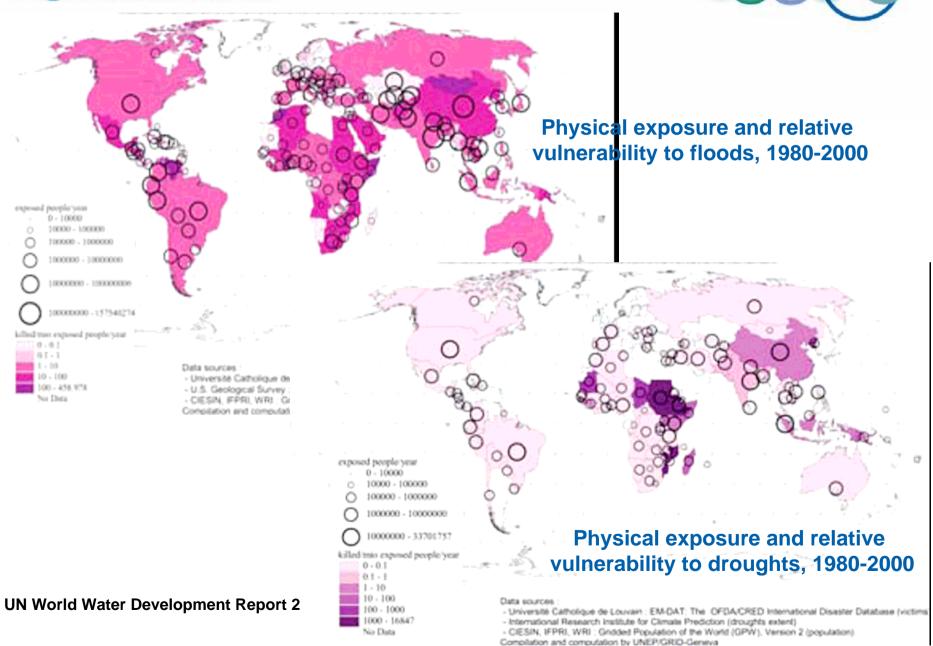


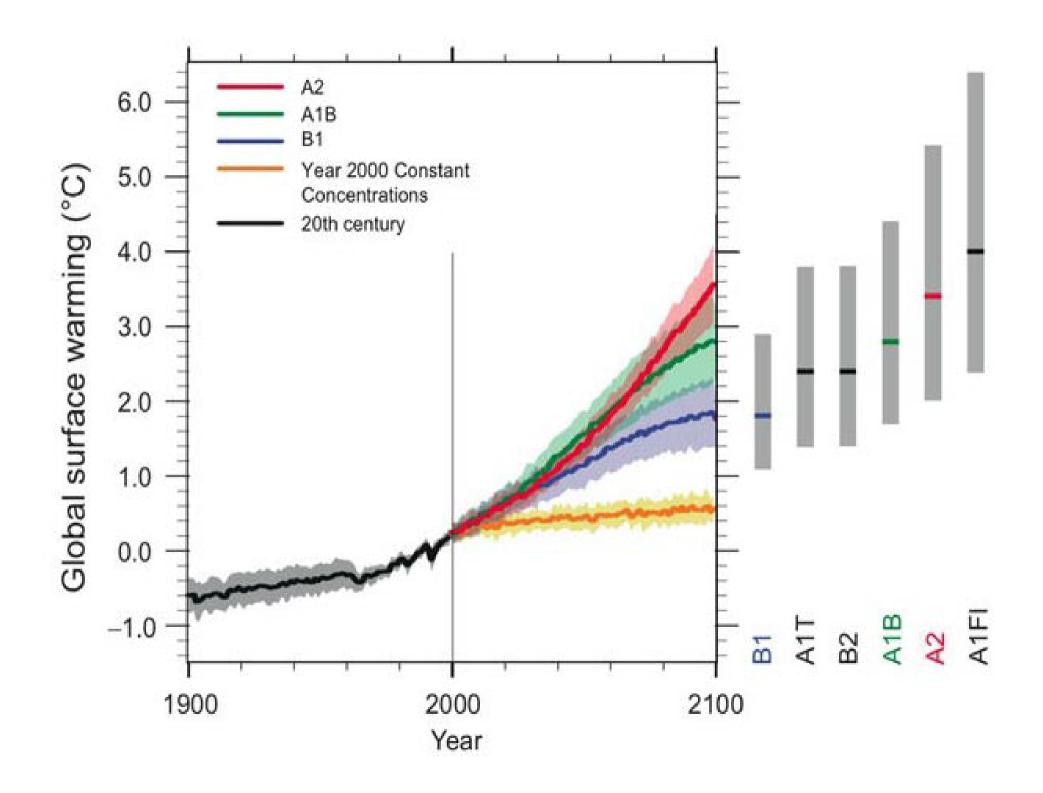
#### Groundwater abstraction rate as percentage of mean recharge

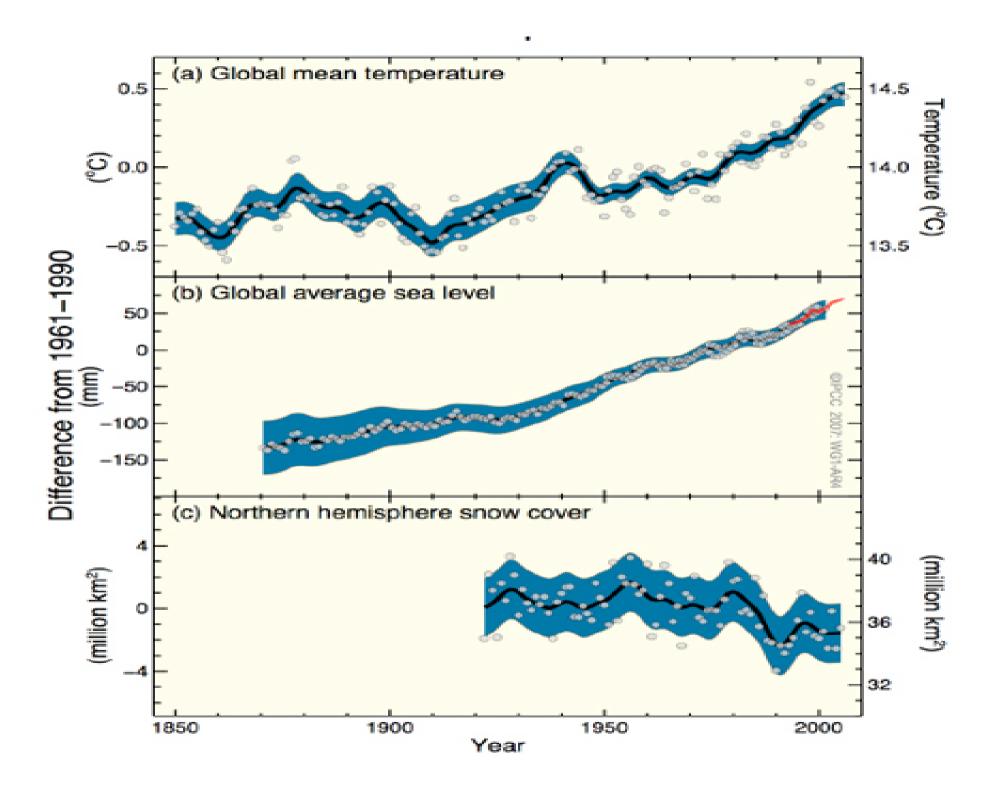










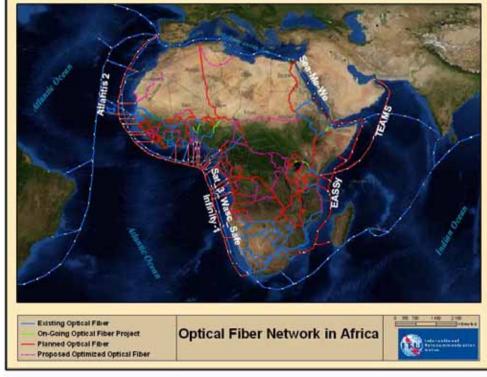






# **Undersea Cables 2007**

**Source: TeleGeography Research** 







# **GEOSS Data Sharing Principles**

- There will be full and open exchange of data, metadata, and products shared within GEOSS, recognizing relevant international instruments and national policies and legislation.
- All shared data, metadata, and products will be made available with minimum time delay and at minimum cost.
- All shared data, metadata, and products being free of charge or no more than cost of reproduction will be encouraged for research and education.
- All new members of GEO are required to endorse the Plan and therefore these Principles.





## **GEOSS** is about...

- Ensuring <u>Access</u> for All
- Making Basic Data Sets <u>Available</u>
- Developing End-to-end <u>Services</u>
- Coordinating and Sustaining Observing Systems



# Thank you!

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