

Potential support to water prospecting in arid Africa by SAR

Philippe PAILLOU

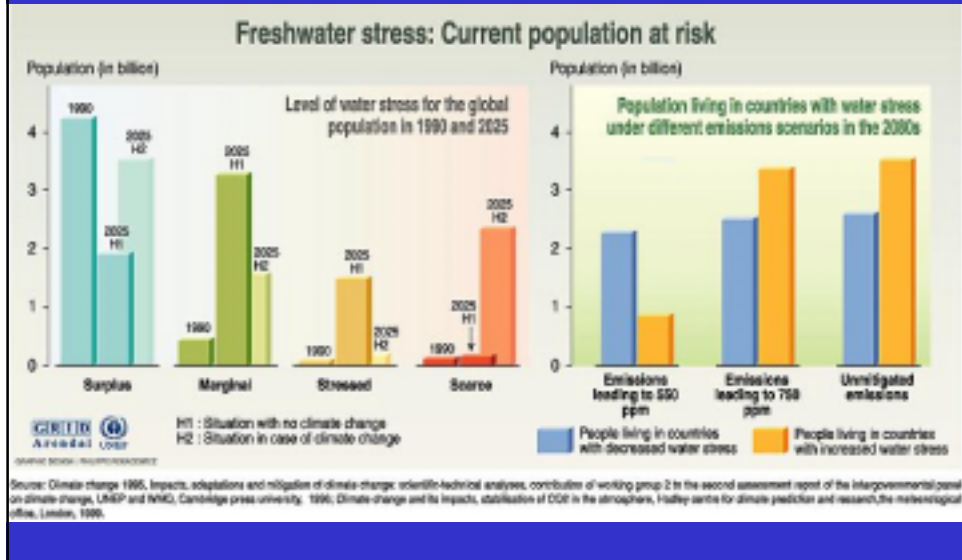
Astronomical Observatory of Bordeaux, France



Freshwater in the World

- **United Nations: Sustainable Development (1992)**
 - > AGENDA 21 - CHAPTER 18: "Protection of the Quality and Supply of Freshwater Resources: Application of Integrated Approaches to the Development, Management and Use of Water Resources"
- **Second World Water Forum 2000, The Hague**
 - > MINISTERIAL DECLARATION ON WATER SECURITY
- **International Freshwater Conference 2001, Bonn**
 - > WATER, KEY TO SUSTAINABLE DEVELOPMENT
- **Earth Summit 2002 Johannesburg: Freshwater**
 - > NO WATER NO FUTURE: A Water Focus for Johannesburg
 - > FRESHWATER: A Global Crisis of Water Security and Basic Water Provision

Freshwater Stress

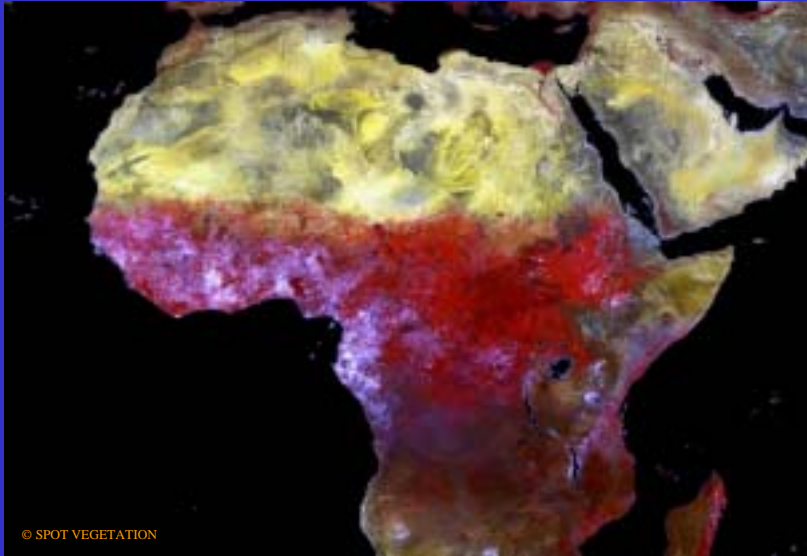


The Future for Africa



- Water scarcity in 2025: less than 1000m³/person/year
- Water stress in 2025: 1000 to 1700m³/person/year

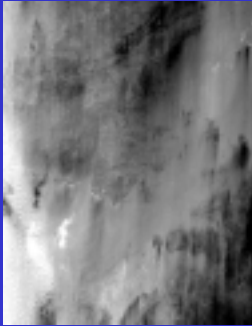
Water resources in arid Africa



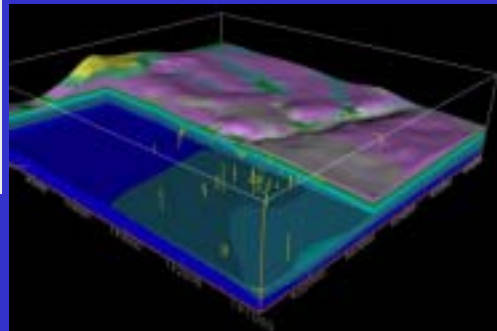
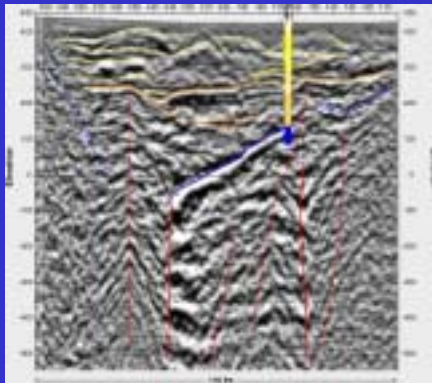
Water prospecting in arid Africa: existing resources



Water prospecting in arid Africa: where to look for water



Water prospecting in arid Africa: modeling ground water



Water prospecting in arid Africa: drilling and ...



Water Supply: Example in Egypt



Potential of SAR: Global Mapping of Subsurface Geology

