



WMO Response to the Global Challenges and Opportunities

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Presentation outline

- ✓ **From Long Beach to San Antonio: significant events 2003-2006**
- ✓ **Upcoming events**
- ✓ **Preparations for Cg-XV and EC-LIX**
- ✓ **Strategic Plan & Budget Structure**
- ✓ **Programmatic outline**



2003: A year for change

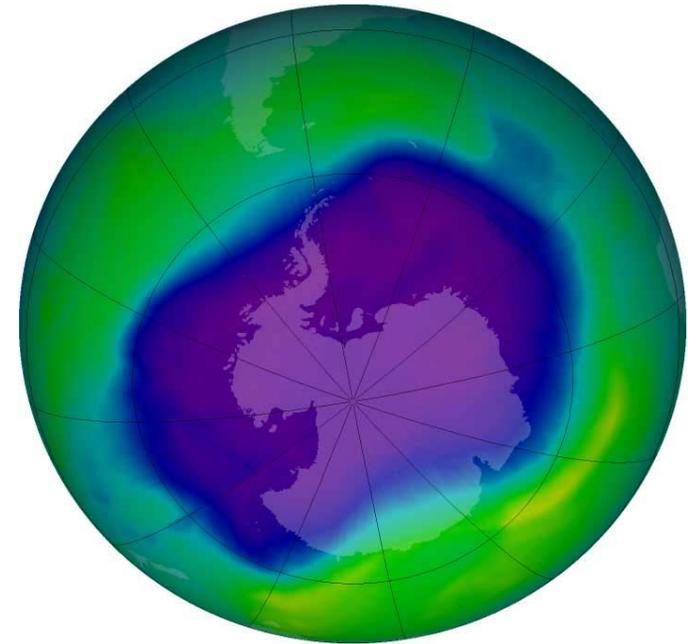
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- ✓ **NWS International Session - Emerging Global Issues & the Future of NMHSs:**
 - **Weather and climate prediction**
 - **Partnerships**
 - **Climate change**
 - **The global water crisis**
 - ✓ **XIVth World Meteorological Congress**
 - **3 crosscutting WMO Programmes: DPM, the WMO Space Programme & the Programme for the LDCs**
 - ✓ **A prospect of sustainable observations: GEO and GEOSS**

Some recent key events for WMO

- ✓ **International Meeting to Review the Implementation of the Programme of Action for the Sustainable Development of SIDS, Port Louis, January 2005**
- ✓ **Second World Conference on Disaster Reduction, Kobe, January 2005**
- ✓ **World Summit on the Information Society, Tunis, November 2005**
- ✓ **Third Early Warning Conference, Bonn, March 2006**
- ✓ **UNFCCC & UNCCD**
- ✓ **IPCC & GEO**
- ✓ **.....**

WMO contributing to the international scientific output

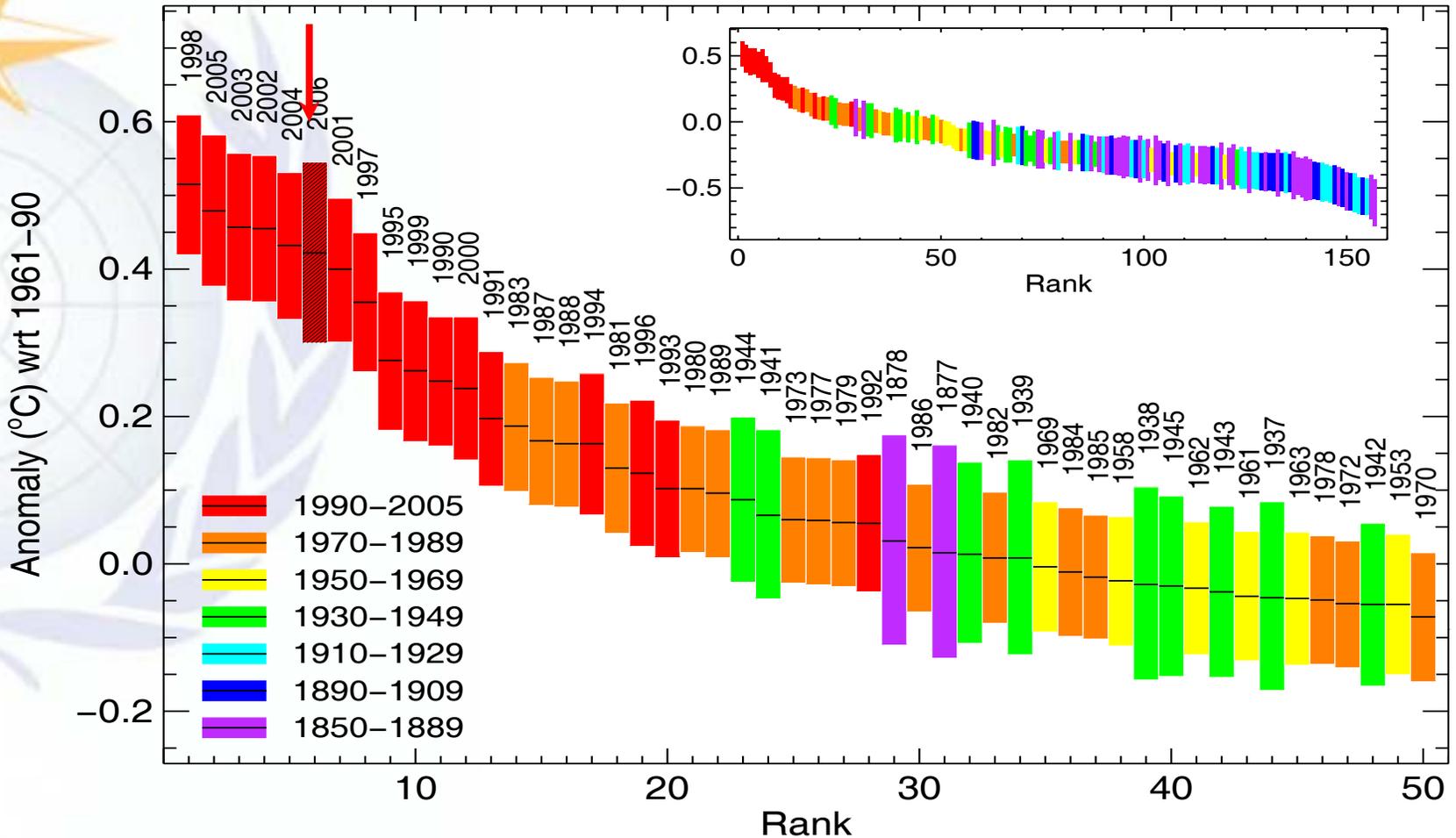
- ✓ **NWP - THORPEX**
- ✓ **WCRP**
- ✓ **2006 Antarctic & Arctic ozone bulletins**
- ✓ **El Niño/La Niña reports & updates**
- ✓ **WMO greenhouse gas bulletins**
- ✓ **Scientific contributions to UNFCCC COP & SBSTA and to the IPCC 4AR**
- ✓ **WMO yearly statements on status of the global climate (last released 14 Dec. 2006)**



Global climate in 2006

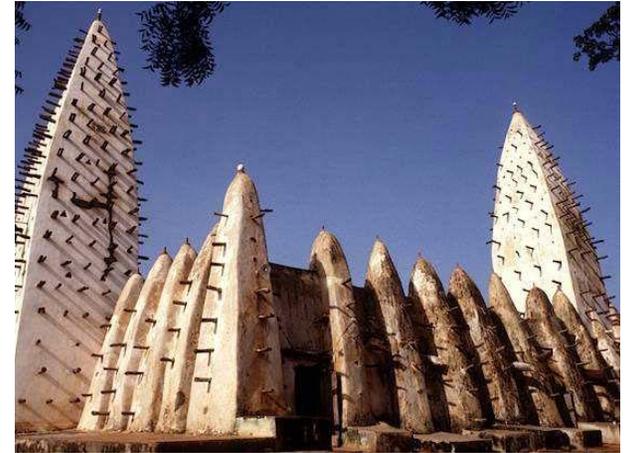
- ✓ Mean surface temperature about $0.42\text{ }^{\circ}\text{C}$ above the 1961-1990 annual average
- ✓ Since start of 20th Century, global average surface temperature has risen by approximately $+0.7\text{ }^{\circ}\text{C}$
- ✓ Further decline of the Arctic ice
- ✓ Heavy rains and flooding reported in many parts of the world, droughts in other parts
- ✓ 2006 Antarctic ozone depletion similar to the 2000 record
- ✓ A “moderate” El Niño event established in last part of 2006

2006: the 6th warmest year on record



Upcoming WMO events

- ✓ **XIV-RA I, Ouagadougou, 14-23 Feb 2007**
- ✓ **IPCC WGs I, II & III**
- ✓ **Start-Up of IPY 2007-2008, 1 March 2007**
- ✓ **International Conference on Social and Economic Benefits of NMHSs, Madrid, 19-22 March 2007**
- ✓ **Expert Meeting on Gender Mainstreaming, Geneva, 26-29 March 2007**
- ✓ **Cg-XV, Geneva, 7-25 May 2007**
- ✓ **EC-LIX, Geneva, 28-30 May 2007**



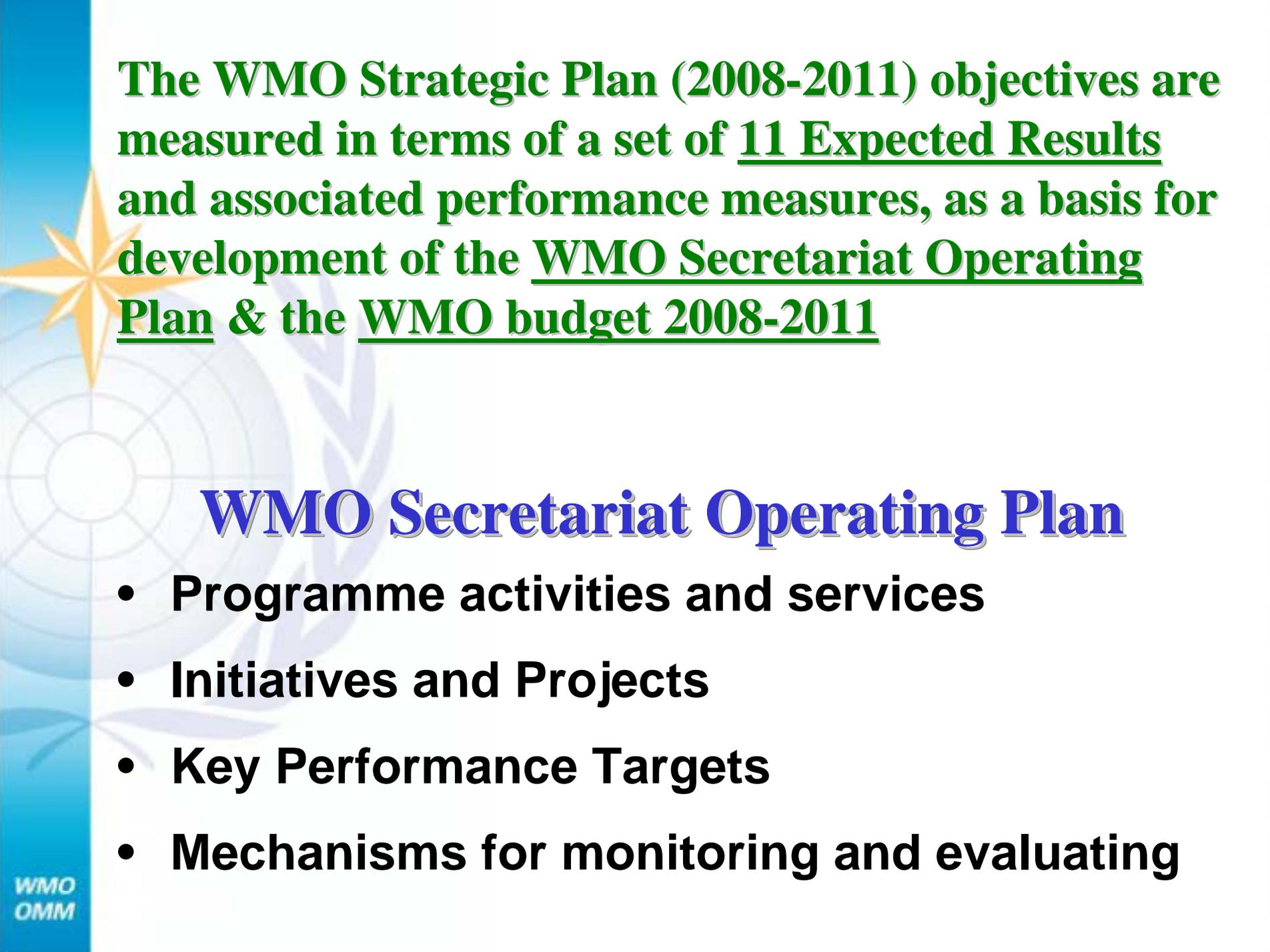
XVth Congress (May 2007)

- ✓ **Strategic Plan**
- ✓ **Programme and Budget 2008-2011**
- ✓ **WMO Secretariat Operating Plan**
- ✓ **WMO Convention & Governance**
- ✓ **WMO Crosscutting Programmes in response to the evolving role of WMO**
- ✓ **EC-LIX**



The WMO Strategic Plan (2008-2011)

- ✓ **Based on contributions to societal outcomes**
- ✓ **3 top-level long-term objectives**
 - **Improve forecasts**
 - **Enhance services and their delivery**
 - **Continue WMO's critical international role as an authoritative scientific voice**
- ✓ **5 strategic thrusts:**
 - **Science/technology development/ implementation**
 - **Service delivery**
 - **Capacity building**
 - **Partnership**
 - **Efficient management and good governance**



The WMO Strategic Plan (2008-2011) objectives are measured in terms of a set of 11 Expected Results and associated performance measures, as a basis for development of the WMO Secretariat Operating Plan & the WMO budget 2008-2011

WMO Secretariat Operating Plan

- **Programme activities and services**
- **Initiatives and Projects**
- **Key Performance Targets**
- **Mechanisms for monitoring and evaluating**

The WMO Budget 2008-2011

A 4-year Results-Based Budget (RBB), in which resource justification determines the affordability of the programme activities, with specific elements:

- ✓ A logical framework for informed budgetary decision-making
- ✓ Resource justification by results
- ✓ Integration of performance measures into the budgetary decision-making process, which measures progress towards delivery of the key performance targets against resources spent

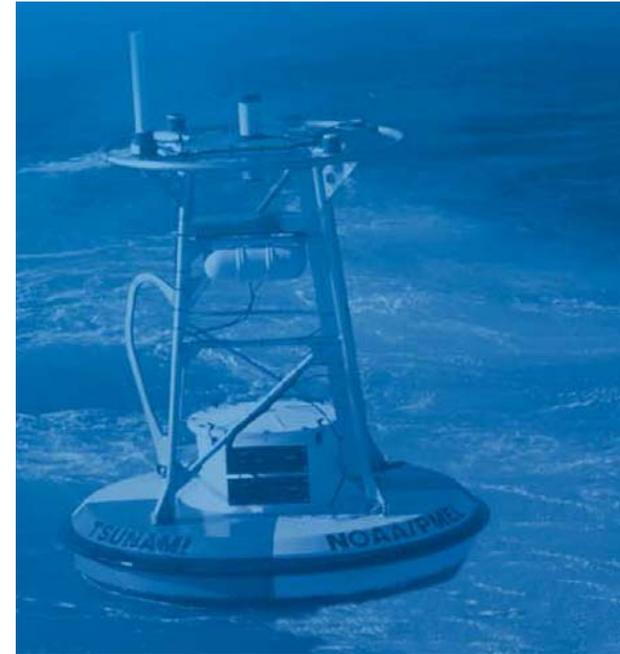
Observations

- ✓ Establishment of a WMO Integrated Global Observing System (WIGOS)
- ✓ GEO implementation & GEOSS integration
- ✓ WHYCOS
- ✓ GCOS, GTOS & GOOS
- ✓ Global Atmosphere Watch (GAW) & O₃
- ✓ Observations in support of the needs of UNFCCC, UNCCD, IPCC, GEOSS, ...



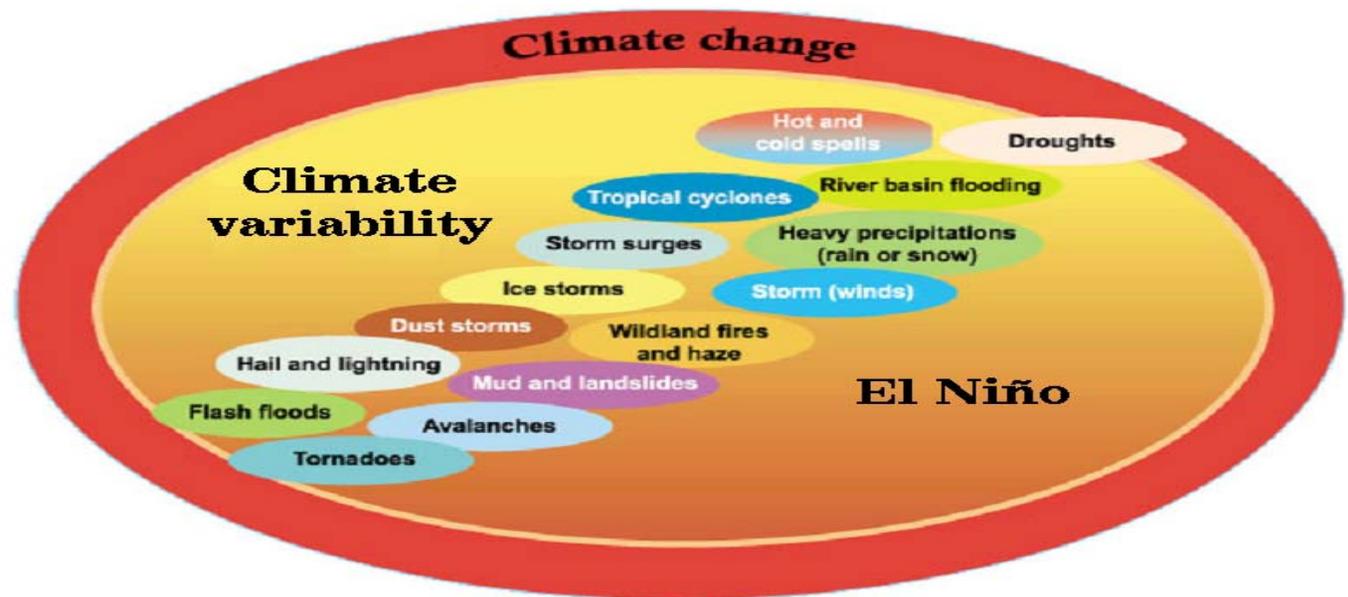
Disaster Prevention & Mitigation

- ✓ **DPM Programme was created by Cg-XIV (2003) & launched in 2004, just before Indian Ocean tsunami**
- ✓ **Hyogo Framework for Action (HFA)**
- ✓ **Partnership with IOC/UNESCO in Tsunami Warning System (TWS)**
- ✓ **Role of WMO's GTS**
- ✓ **Multi-Hazard Early Warning Systems (EWS)**
- ✓ **Preparedness & risk reduction**



Climate

- ✓ WMO & UNCCD collaborating in climate & land degradation
- ✓ IPCC - 4th Assessment Report
- ✓ GCOS
- ✓ WCRP
- ✓ WCP

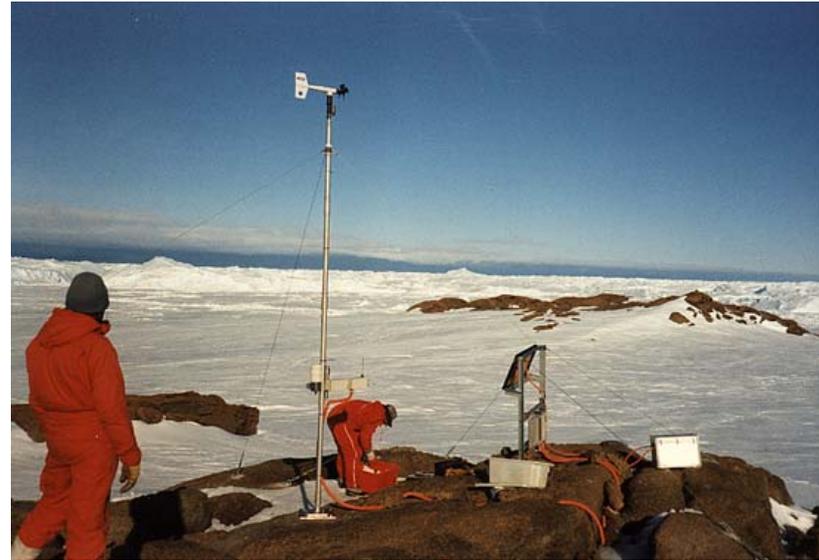


Research

✓ IPY 2007- 2008

✓ THORPEX

✓ WCRP



✓ More active participation of the developing countries

Applications

- ✓ **Public weather services**
- ✓ **Tropical cyclone monitoring & warnings**
- ✓ **Agriculture & food**
- ✓ **Drought & desertification**
- ✓ **Tourism**
- ✓ **Climate & health**
- ✓ **Public information and community awareness**
- ✓ **Marine & aviation services**



Water

- ✓ **WHYCOS - World Hydrologic Cycle Observation System**
- ✓ **WMO Flood Forecasting Initiative: Increasing the collaboration among meteorologists & hydrologists**
- ✓ **Integrated Flood Management**



Capacity Building

- ✓ Sustainable development
- ✓ NMHSs human resources renewal
- ✓ Fellowships
- ✓ Programme for LDCs & review of Brussels Programme of Action
- ✓ Resource Mobilization
- ✓ Women in meteorology and hydrology



Cooperation with UN System & partner organizations

- ✓ IPCC: WMO & UNEP
- ✓ WCRP: WMO, ICSU & IOC
- ✓ GCOS: WMO, ICSU, IOC & UNEP
- ✓ JCOMM: WMO & IOC
- ✓ UN System Chief Executives Board for Coordination (CEB)
- ✓ UN Development Group (UNDG)
- ✓ UN Environment Management Group (EMG)
- ✓ UN Water chaired by WMO



Conclusion: There is need for cooperation...

1- At national and regional levels

- ✓ **Role of National Meteorological and Hydrological Services**
- ✓ **Cooperation across disciplines and agencies**
- ✓ **Links with academic community**

2- At international level

- ✓ **Between IGOs and NGOs concerned**
- ✓ **Capacity building and transfer of technology activities**



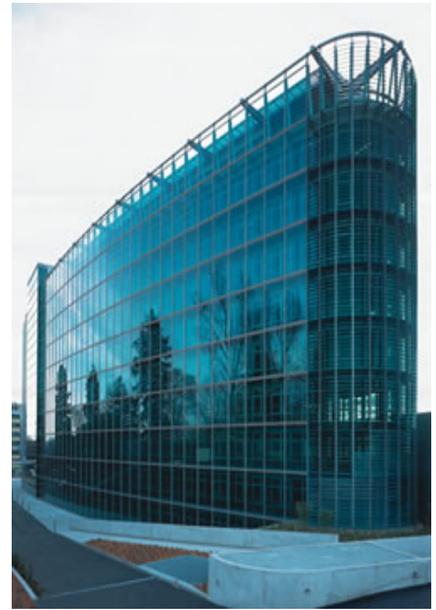
3- Within multiple domains

- ✓ **observations**
- ✓ **communications**
- ✓ **data processing (including NWP)**
- ✓ **.....**

4- Across disciplines

Conclusion:

...so there is need for a stronger WMO



Thank you !