

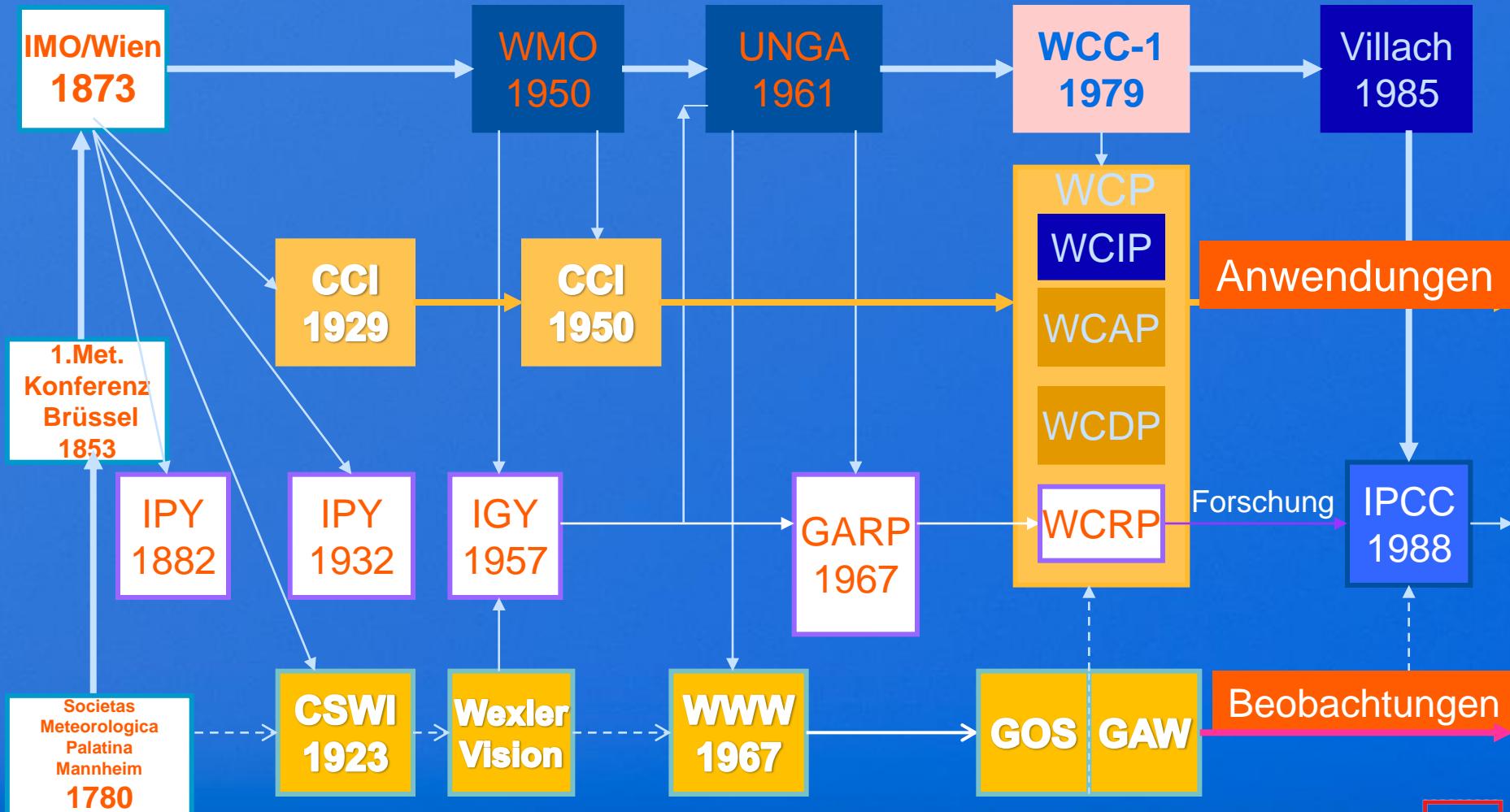


GCOS 1992-2012

Zentralanstalt für Meteorologie und Geodynamik



Die “KLIMAWELT” vor GCOS

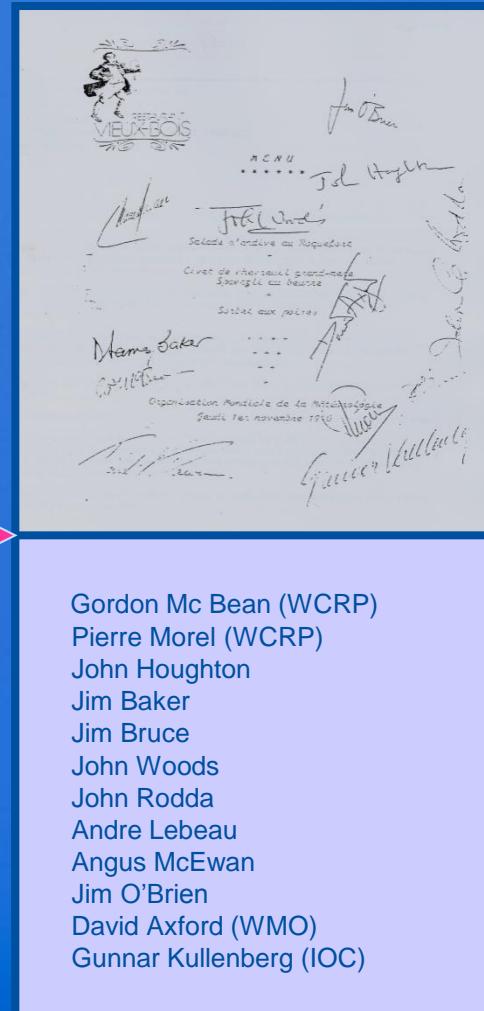
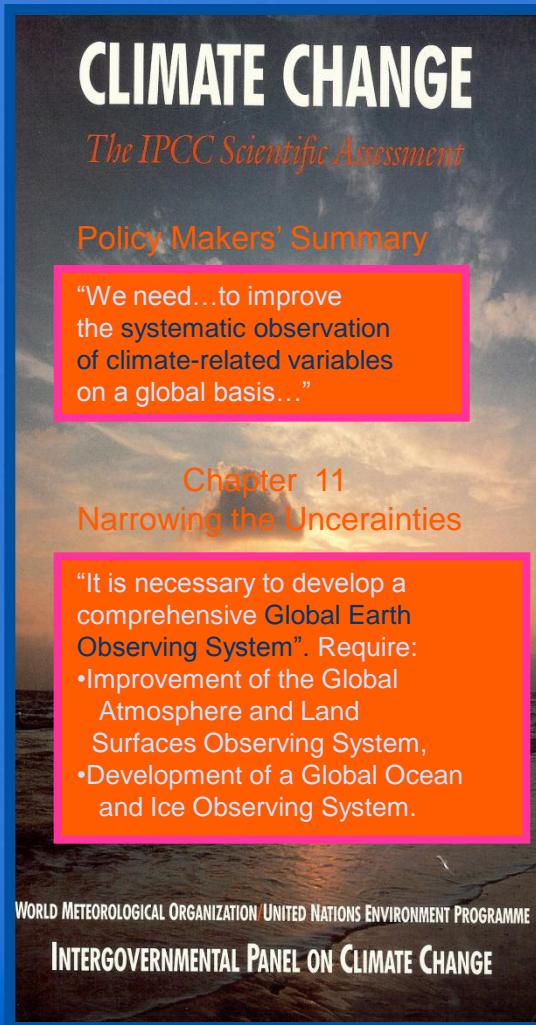


Der Ursprung von GCOS

IPCC FAR
August 1990

VIEUX BOIS
1 November 1990

WCC-2
Conference Statement

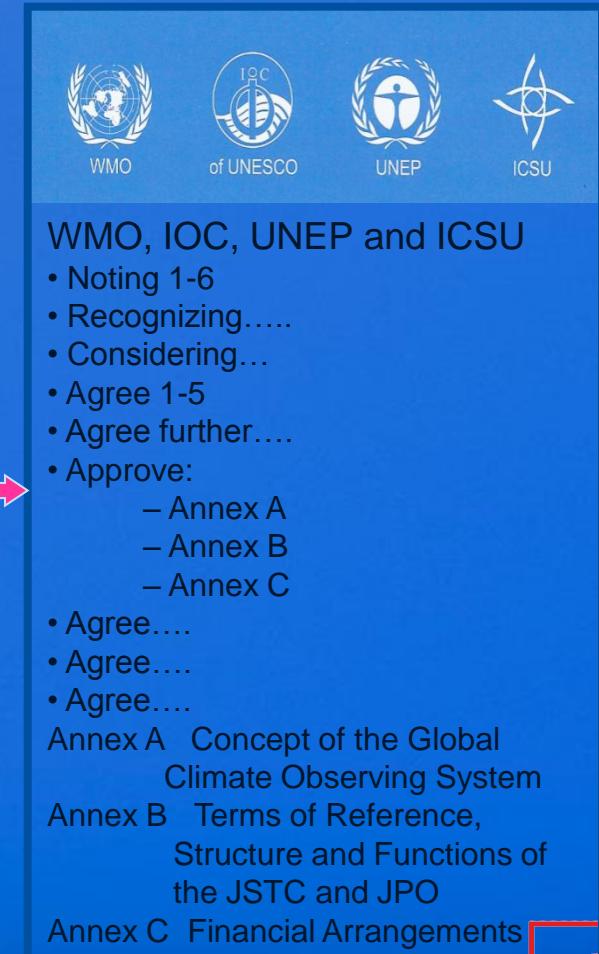
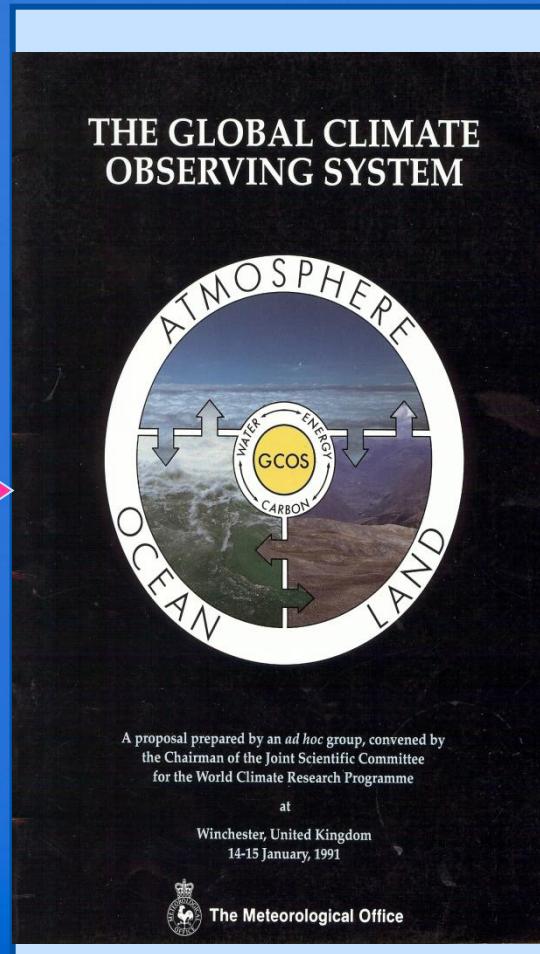
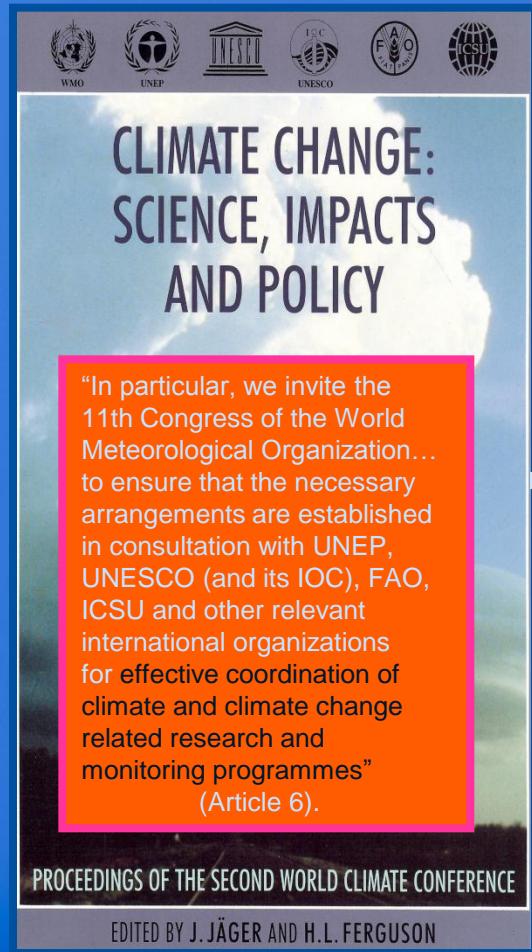


Die Gründung von GCOS

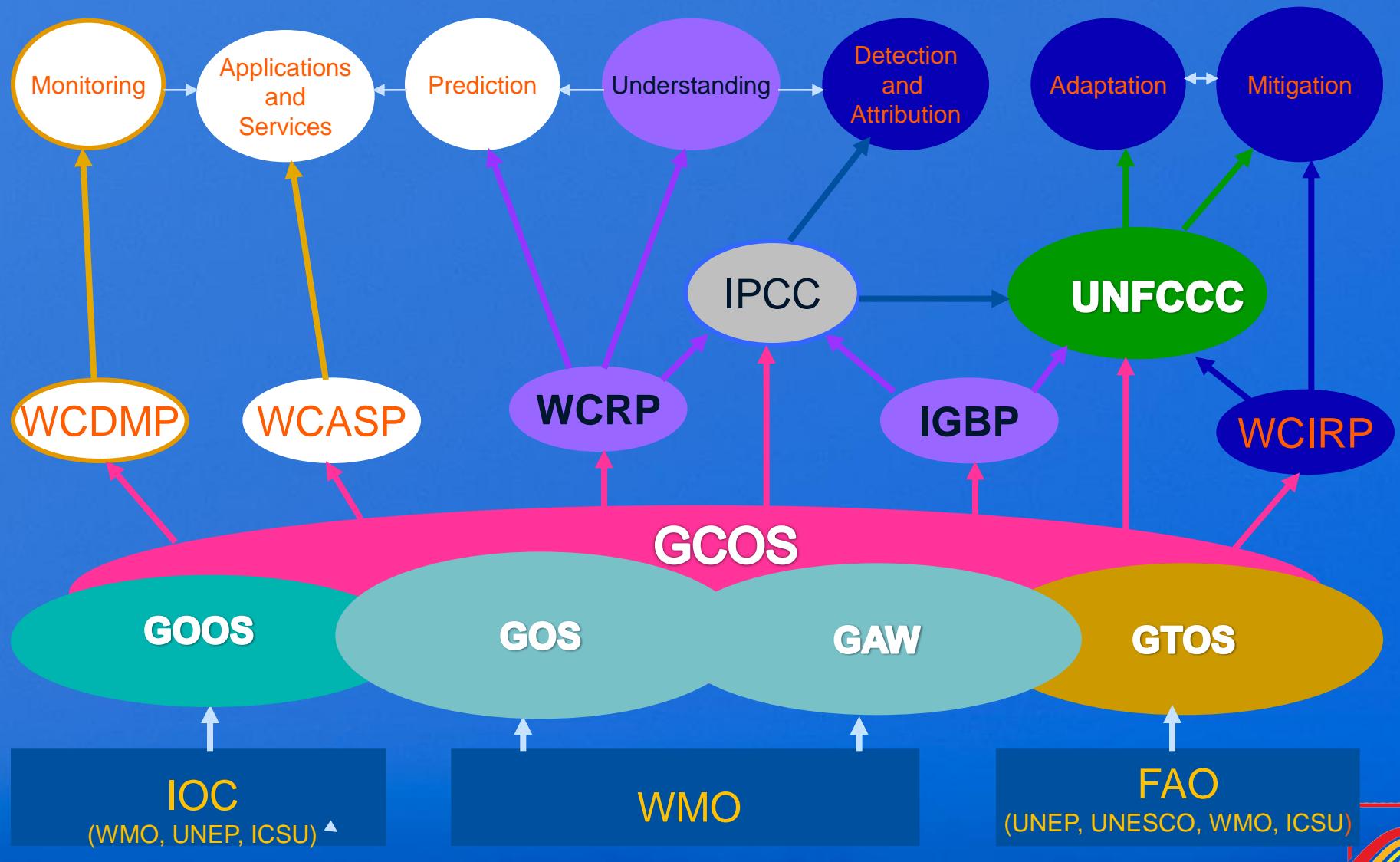
WCC-2
Ministerial Declaration
7 November 1990

Winchester Proposal
January 1991

GCOS MOU
April 1992 (revised 98)



Das Konzept und die Hauptkomponenten von GCOS



UN Rahmenübereinkommen über Klimaänderungen (UNFCCC) (Mai 1992)

Article 4 Commitments

All Parties shall:

1(g) Promote and cooperate in scientific, technological, technical, socio-economic and other research, **systematic observation** and development of data archives related to the climate system.....

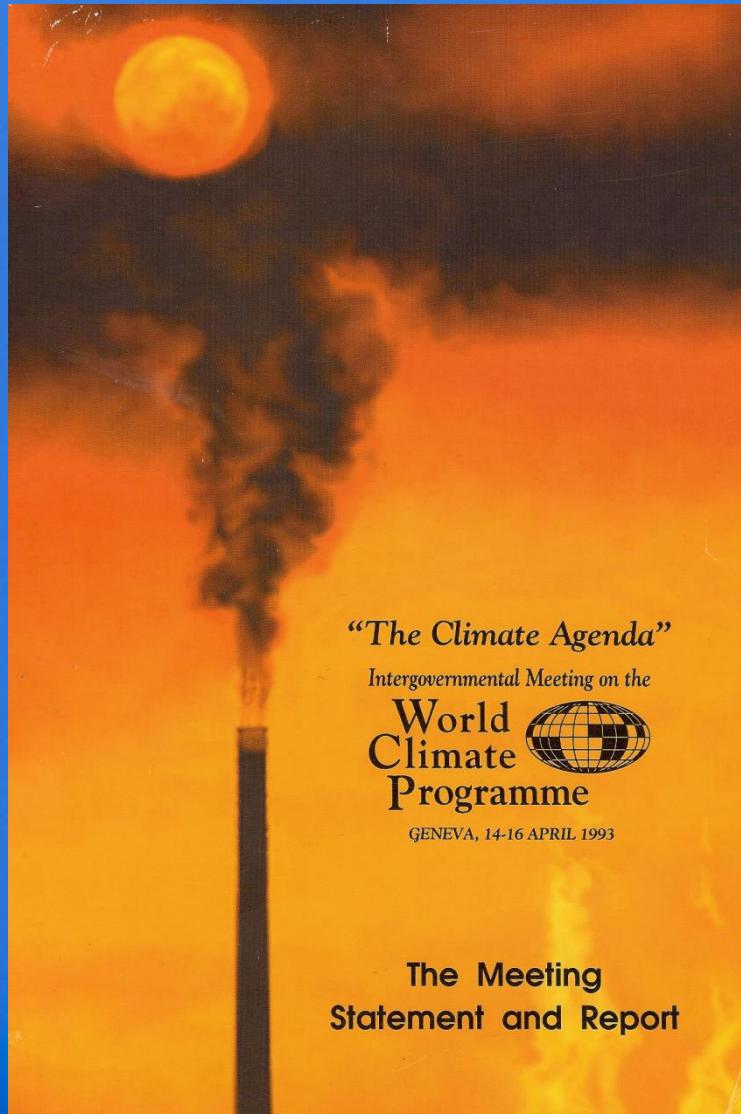
Article 5 Research and Systematic Observation

In carrying out their commitments under Article 4, paragraph 1(g), the Parties shall:

- (a) Support and further develop...programs and networks or organizations aimed at defining, conducting, assessing and financing research, data collection and **systematic observation**, taking into account the need to minimize duplication of effort;
- (b) Support international and intergovernmental efforts to strengthen **systematic observation**....particularly in developing countries, and to promote access to, and the exchange of, data and analyses thereof.....



Intergovernmental Meeting (1993) and the Climate Agenda



Statement on the Climate Agenda (16 April 1993)

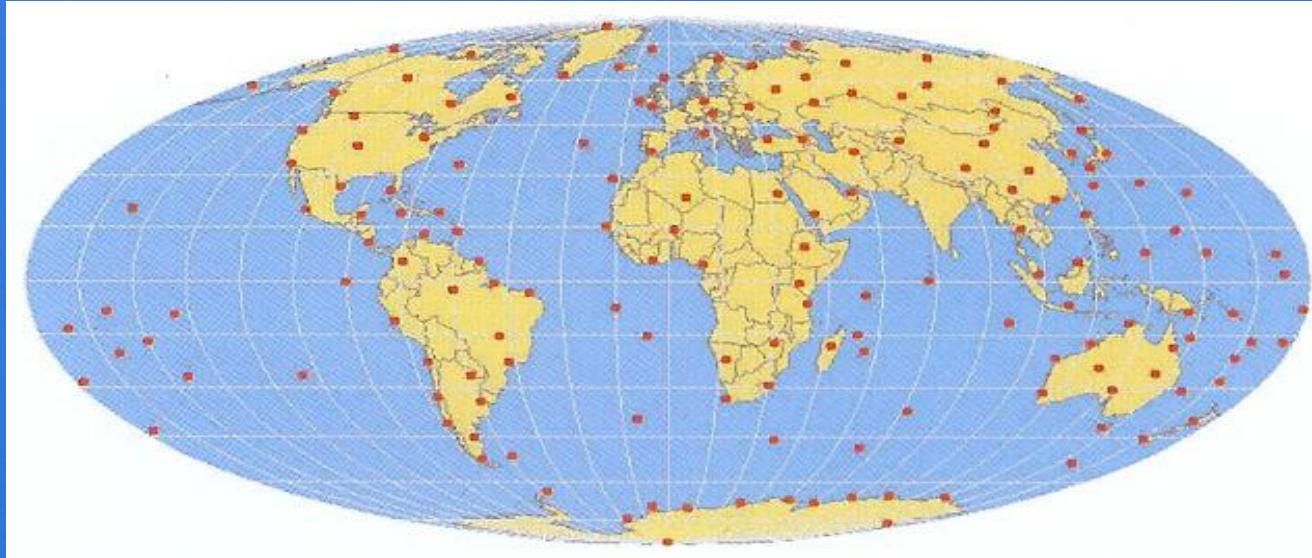
The Meetingendorsed the proposed four main thrusts of the World Climate Programme (WCP) and its associated activities:

- Climate services for sustainable development;
- New frontiers in climate science and prediction
- **Dedicated observations of the climate system**
- Studies of climate impact assessments and response strategies to reduce vulnerability.

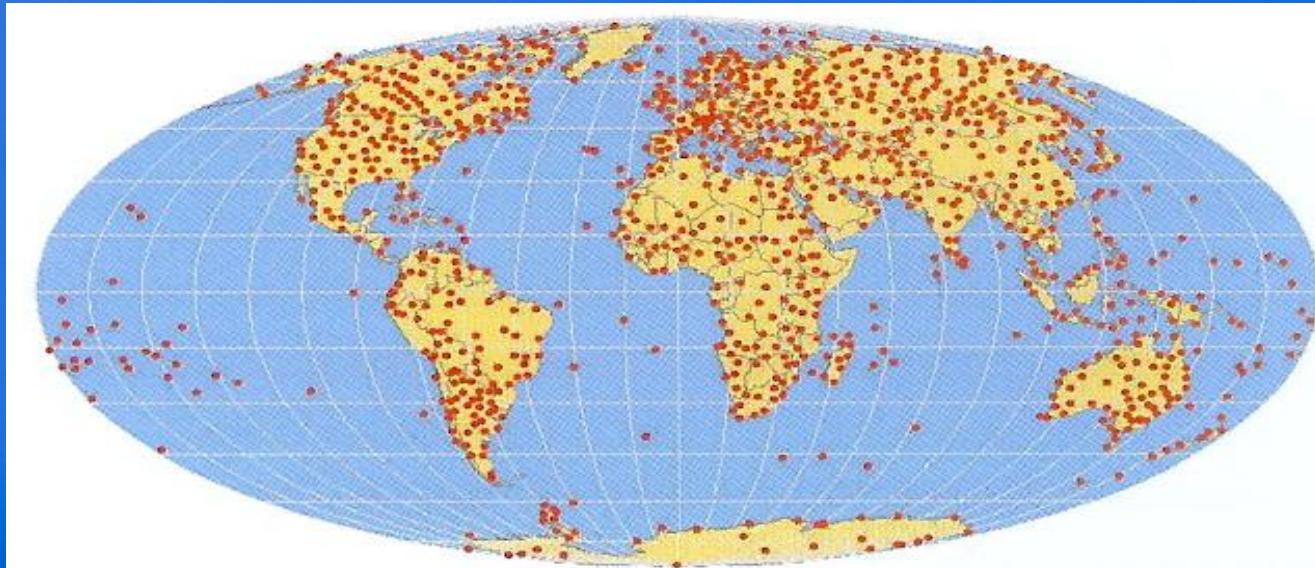


GSN and GUAN

**GCOS Upper Air
Network
(GUAN)**



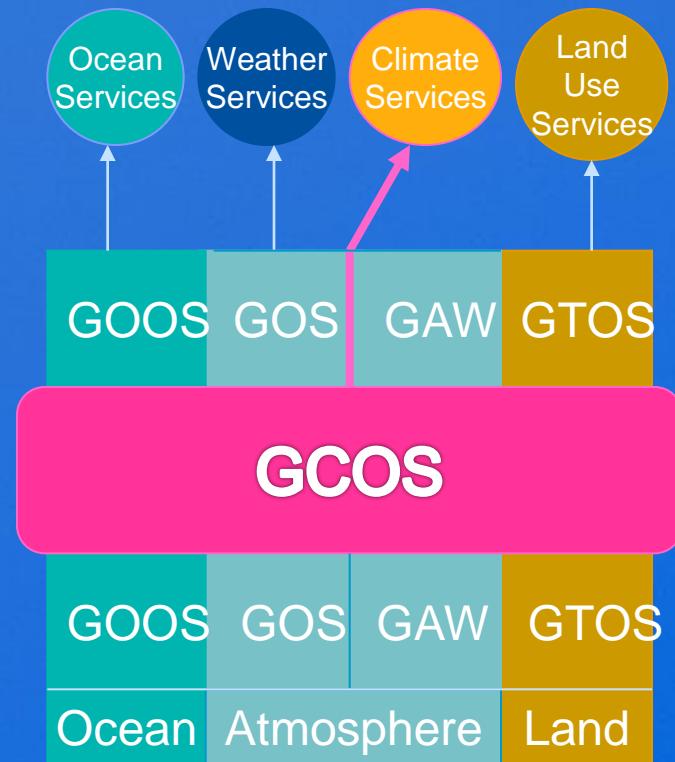
**GCOS Surface
Network
(GSN)**



IGOS-P (Integrated Global Observing Strategy) und die zwei Ansichten über GCOS



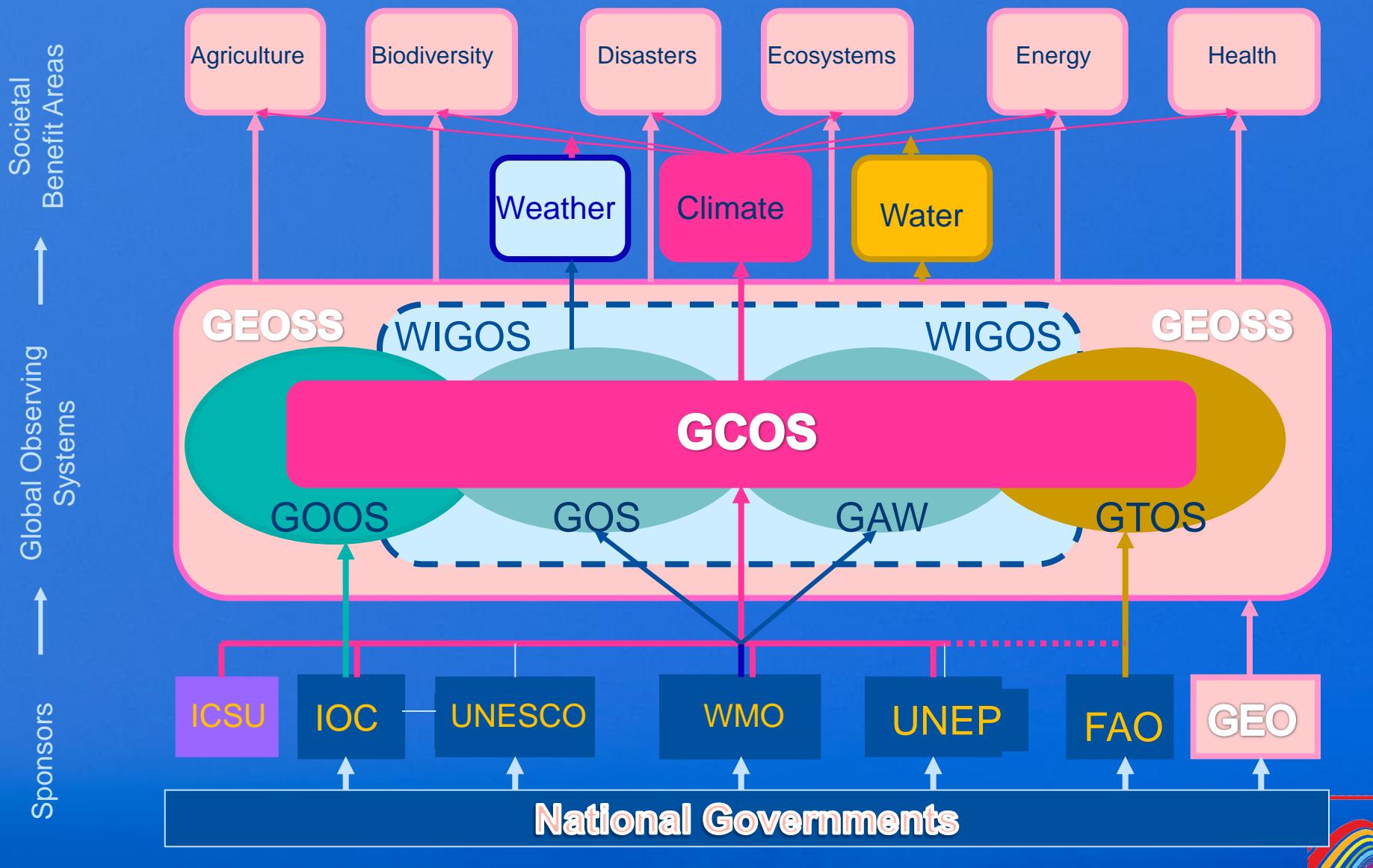
G3OS Perspective



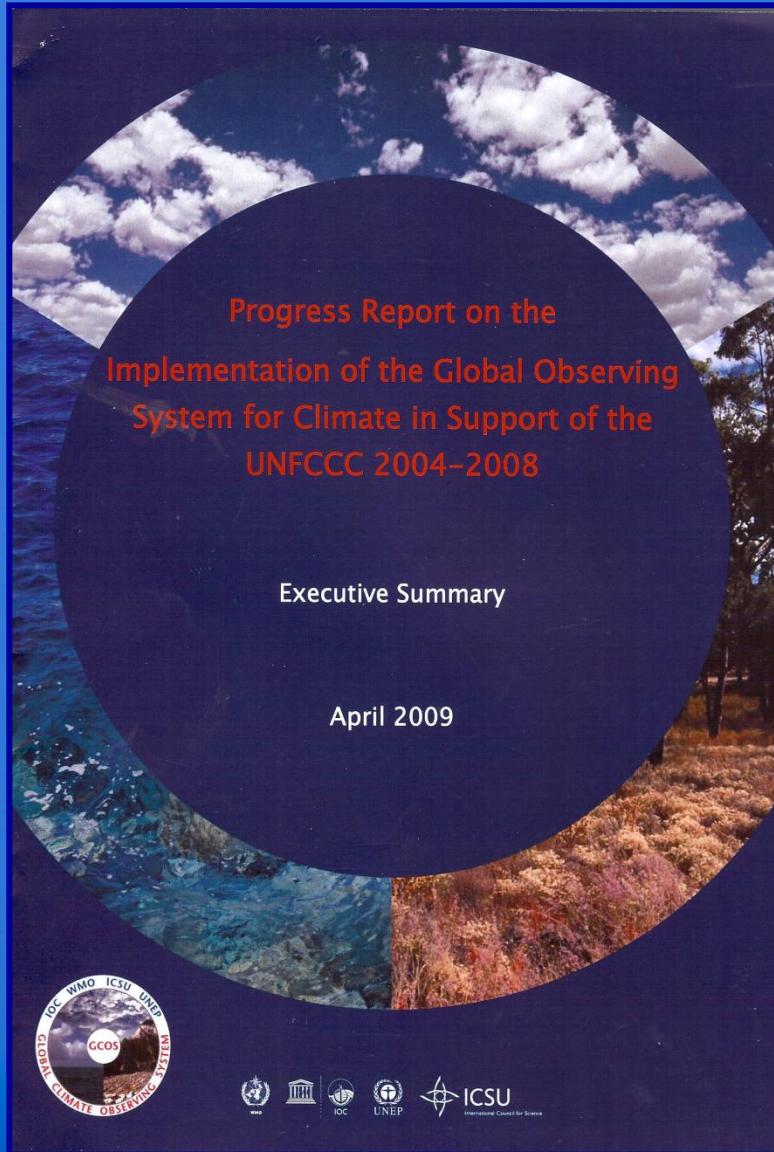
Cross-cutting Perspective



Ab 2003: GCOS as the Climate Observing Component of GEOSS



2009 Progress Report and 2010 Update of Implementation Plan



The page has a white background with a pink border. At the top is the GCOS logo and name. Below it are logos for WMO, IOC, UNEP, and ICSU. The main title is "IMPLEMENTATION PLAN FOR THE GLOBAL OBSERVING SYSTEM FOR CLIMATE IN SUPPORT OF THE UNFCCC (2010 UPDATE)". Below the title is the date "August 2010" and the identifier "GCOS-138 (GOOS-184, GTOS-76, WMO-TD/No. 1523)". Logos for the United Nations Environment Programme and the International Council for Science are at the bottom.

GCOS
GLOBAL CLIMATE OBSERVING SYSTEM

WMO IOC UNEP ICSU
INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION

**IMPLEMENTATION PLAN FOR THE
GLOBAL OBSERVING SYSTEM FOR CLIMATE
IN SUPPORT OF THE UNFCCC**

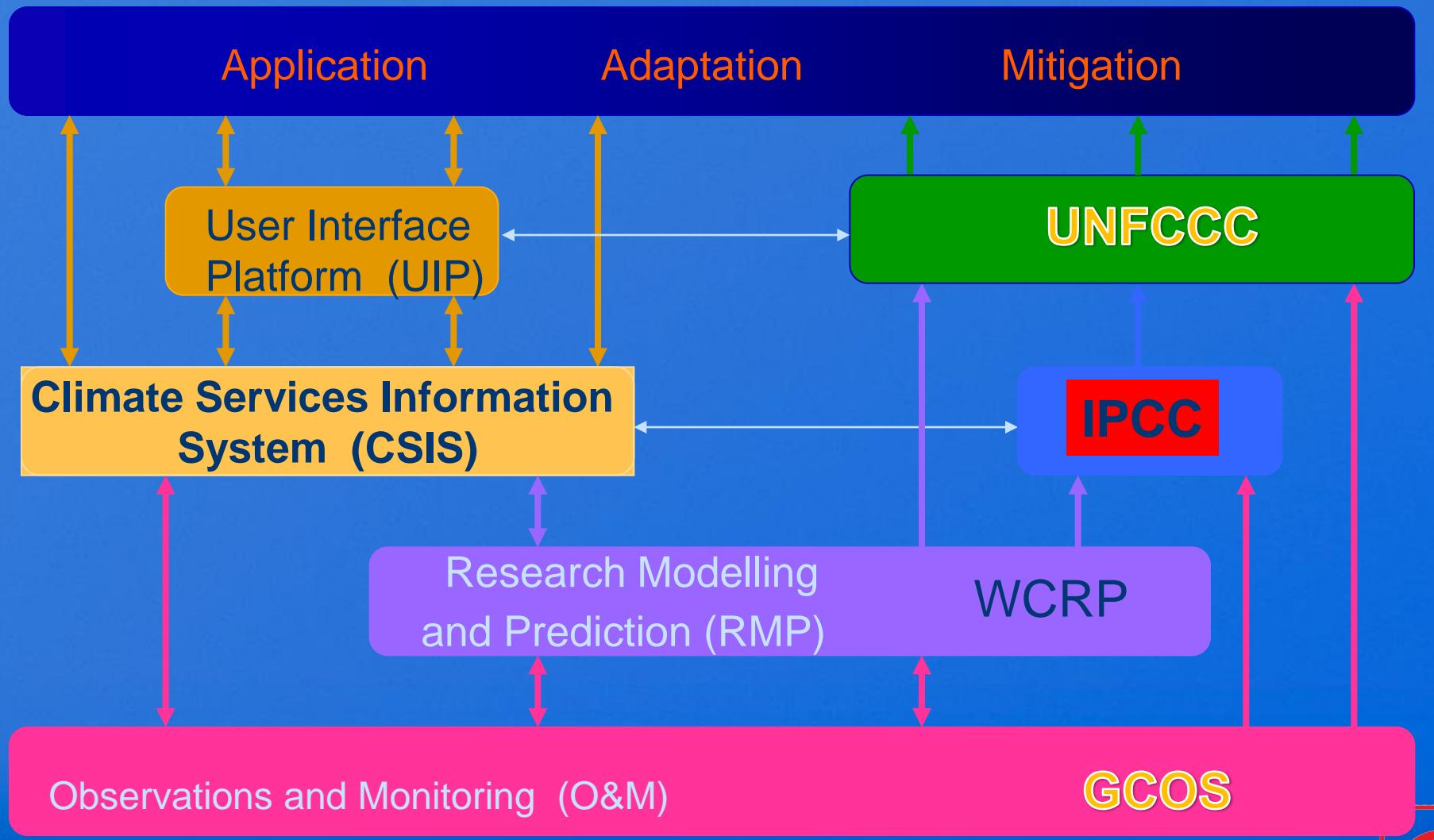
(2010 UPDATE)

August 2010
GCOS-138
(GOOS-184, GTOS-76, WMO-TD/No. 1523)

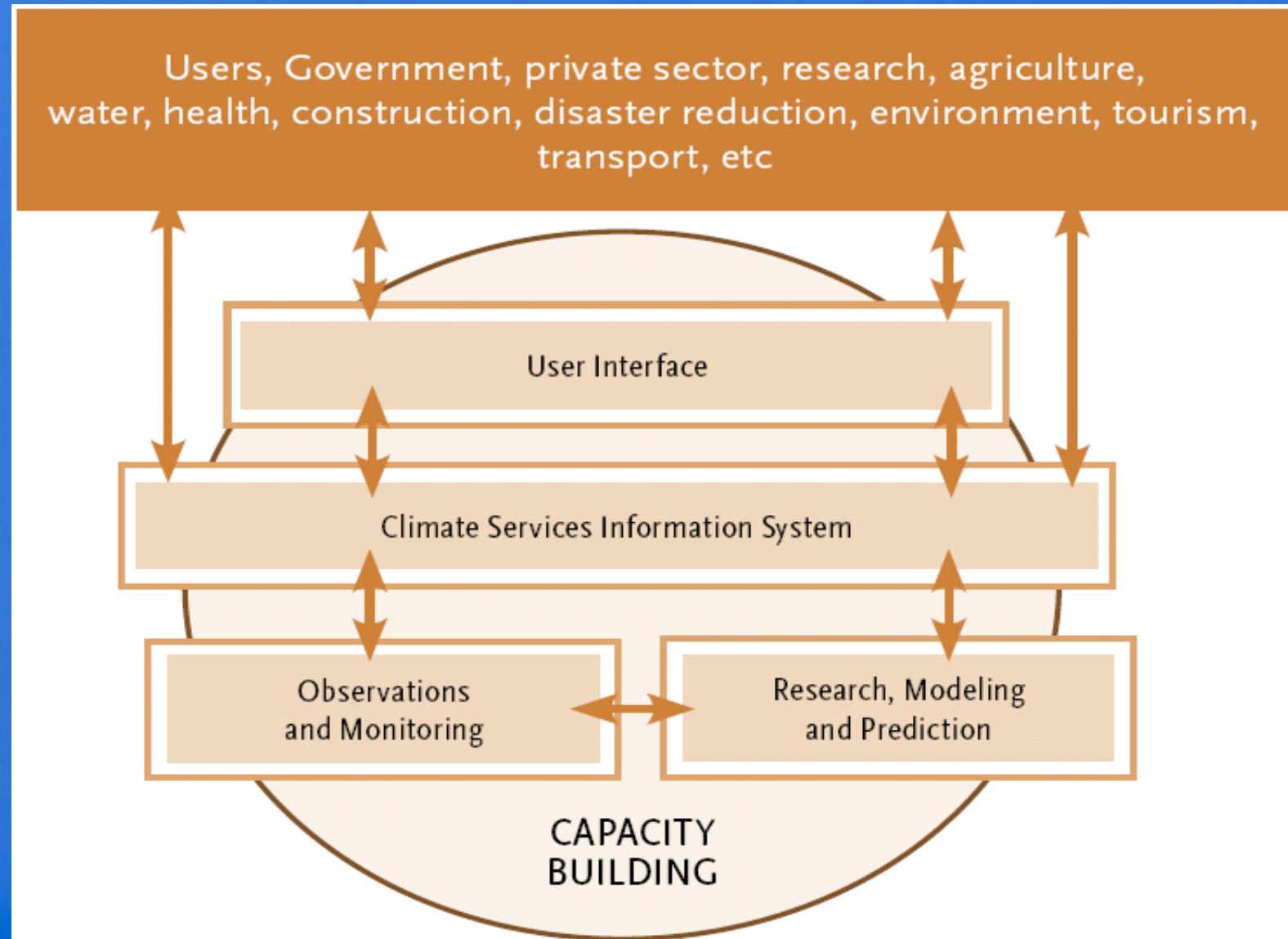
UNITED NATIONS ENVIRONMENT PROGRAMME

INTERNATIONAL COUNCIL FOR SCIENCE

3 –WCC 2009: GCOS Supporting Climate Applications through the Global Framework for Climate Services (GFCS)



Die Eckpfeiler des GFCS



GCOS 1992 – 2012: Zusammenfassung

- Begonnen hat es mit den UN Resolutionen in der Generalversammlung von 1961, die zur Gründung des WWW und GARP führten. Die in den Folgejahren gesetzten Bausteine und Pläne um den Anforderungen und den Rahmen einer umfassenden globalen Klimabeobachtung gerecht zu werden, führten zur Gründung von GCOS. Es entstand aus der Forderung nach verstärkter Beobachtung sowie der Stärkung des WCP und seine Integration in die Klima-Agenda.
- In vielerlei Hinsicht ist es eine Erfolgsgeschichte der internationalen Planung und Koordination. Aber es ist auch eine Erinnerung daran, dass die Umsetzung solcher Pläne ein langer Prozess ist und nur dann vollständig umzusetzen ist, wenn sich die einzelnen nationalen Regierungen bereit erklären, einerseits die erforderlichen Ressourcen bereitzustellen und auch Engagement zeigen die internationale Pläne in die Realität umzusetzen.





GCOS 1992-2012

Thank you

Zentralanstalt für Meteorologie und Geodynamik

