



WMO



of UNESCO

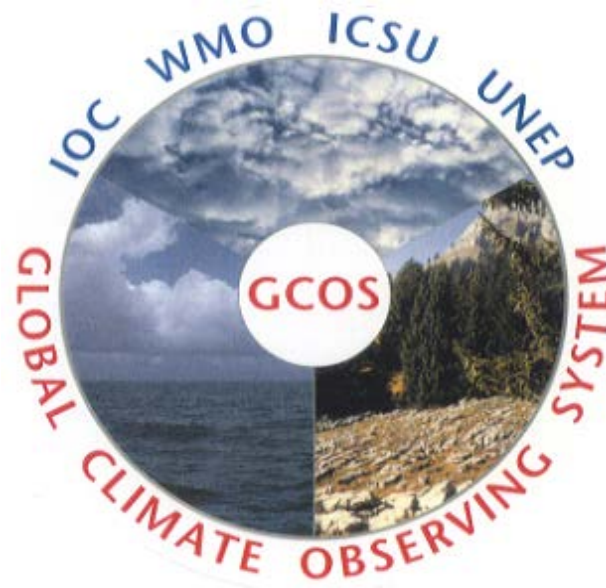


UNEP



ICSU

Workshop Goals and Agenda Overview



Reference Upper Air Observations for GCOS Meeting

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World Meteorological Organization

Global Climate Observing System

Mission: To ensure that the data required to meet the needs of users for climate information are obtained and made available for:

- ◆ **Climate system monitoring, climate change detection and attribution;**
- ◆ **Research, modelling and prediction of the climate system;**
- ◆ **Assessing impacts, vulnerability & adaptation;**
- ◆ **Application to sustainable economic development.**

➤ **Climate component of GEOSS**

Global, long-term, high-quality, sustainable, reliable, ...



The GCOS is comprised of the climate components of the domain based observing systems including both satellite and *insitu* observations



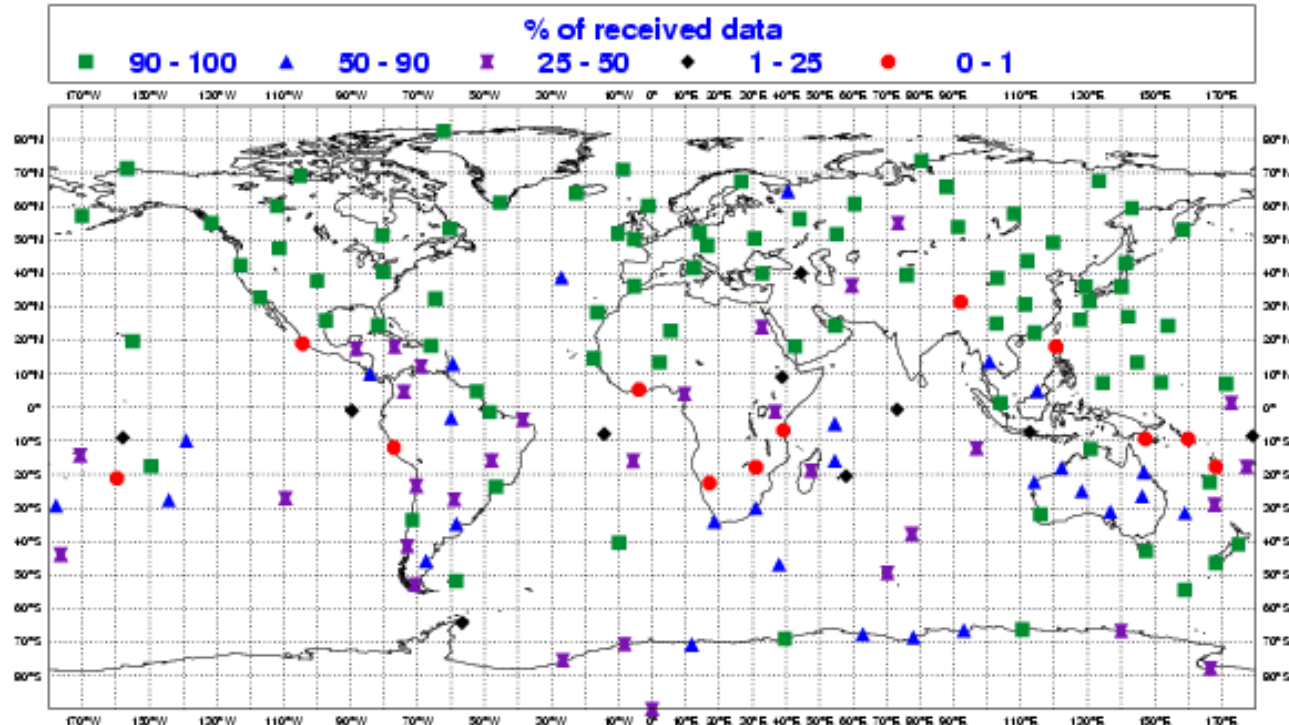
GCOS Interest in Reference Upper Air Network

- ◆ Existing GCOS Upper Air Network (GUAN)
- ◆ GCOS Implementation Plan (2004)
 - Requested by UN Framework Convention on Climate Change
 - Plan calls out Essential Climate Variables for Upper Air
 - Actions include “...establish a high quality reference network of about 30 precision radiosonde stations and other collocated observations”
- ◆ Work to Date (Boulder 2005): What Do We Need?
- ◆ This Meeting: What Can We Do?



Current GUAN Network Status

GUAN STATIONS APR 2006
Frequency of RECEPTION data at ECMWF
Level: 700 hPa Temperature SUMMARY 00/12 UTC



Agenda Overview

“.... consider and evaluate technological options to meet climate requirements”

- ◆ Introduction, Workshop I Report and Organization Context
- ◆ Current Instrument Capabilities and Their Testing and Validation Procedures
- ◆ Instruments, Platforms and Deployment Options
- ◆ Candidate Network Operating Strategies
- ◆ Wrap-Up

