

# Identified issues by WGClimat - Application Areas

## OSCAR (Observing Systems Capability Analysis and Review Tool)

is an important building block of the “Rolling Requirements Review” process (user requirements for observations are compared with the capabilities of present and planned observing systems).

It allows the consultation of:

- User requirements for observation of 14 WMO application areas (GCOS: Climate Monitoring)
- Facts and capabilities of space-based observing systems
- Facts and capabilities of surface-based observing systems

By comparing capabilities with requirements, a critical review and gap analysis can be performed.

# GCOS Long-range Objectives

GCOS will ensure that climate observations must be enhanced and continued into the future to enable users to:

1. detect further climate change and determine its causes;
2. model and predict the climate system;
3. assess impacts of climate variability and change;
4. monitor the effectiveness of policies for mitigating climate change;
5. support adaptation to climate change;
6. develop climate information services;
7. promote sustainable national economic development;
8. meet requirements of the international environment conventions and agreements and those of the UNFCCC.

*Review process for requirements per application area – to be discussed at upcoming steering committee meeting.*