

The Observing System Capability Analysis and Review Tool (OSCAR) and the WMO Gap Analysis of the Space-Based Observations

The WMO Observing System Capability Analysis and Review tool for space-based capabilities (OSCAR/Space) is a publicly available, online resource established and maintained by the WMO Space Programme Office (WMO SP) in the context of the WMO Integrated Global Observing System (WIGOS).

It is a key tool and information source to support the WMO Rolling Review of Requirements (RRR) process guiding WMO observation requirements and to conduct the WMO Gap Analysis, which concludes the implementation status of the WIGOS Vision 2040. In addition, it supports the CGMS risk assessment related CGMS baseline. Therefore, the information content in OSCAR/Space must be carefully and continuously maintained in collaboration with the CGMS and the respective space agencies including all satellite operators and private sector.

In this presentation we present the latest results of WMO 2026 Gap Analysis provided in the context of CGMS Working Group III. In addition, we highlight the future development plans to keep OSCAR/Space as a high-quality information source on satellite programmes, satellites and instruments operated by CGMS members and observers as well as by non-CGMS satellite operators and commercial satellites for the benefit of satellite agencies, NWP centres and satellite data users worldwide.