



Statement from CEOS Regarding Progress Report by the Committee on Earth Observation Satellites (CEOS) and the Coordination Group for Meteorological Satellites (CGMS) on an integrated response to UNFCCC needs for global satellite observations

Conference of the Parties (COP21)/SBSTA-43,
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Australia is pleased to update the 43rd session of the Subsidiary Body for Scientific and Technological Advice (SBSTA) on a coordinated response to the United Nations Framework Convention on Climate Change (UNFCCC) needs for satellite observations prepared by the Committee on Earth Observation Satellites (CEOS) and the Coordination Group for Meteorological Satellites (CGMS) Working Group on Climate. CEOS has had the honor to provide input to the UNFCCC on several previous occasions.

At the 20th session of the Conference of the Parties (COP) to the UNFCCC in 2014, the 41st session of SBSTA invited CEOS and CGMS to provide, for SBSTA-43 and the COP-21 in November–December 2015, an updated report on progress made by Space Agencies in providing satellite observations relevant to the convention needs as set out in the Global Climate Observing System (GCOS) Implementation Plan.

Since the last report presented to SBSTA-41 CEOS and CGMS have made the following relevant progress:

Sensing – Data from an Essential Climate Variable (ECV) inventory have been analysed to provide information complementary to existing CEOS databases.

Climate Record Creation and Preservation – A quantitative assessment of compliance of the GCOS Essential Climate Variables using GCOS guidelines for dataset preparation has been made. This analysis will help quantify the level of maturity of datasets, ensure openness and transparency, and help users judge the utility of the dataset for their application.

Application – CEOS and CGMS have provided GCOS with a final report on Space Agency actions carried out in the 2011–2015 period in response to the GCOS 2010 Implementation Plan and 2011 Satellite Supplement. This input has been used in the GCOS 2015 status report that will be presented to SBSTA-43.

Decision Support – CEOS and CGMS joined the World Meteorological Organization and European Union Joint Research Center on a new report on case studies for climate services.

Since the last report CEOS has also made progress on implementation of its *CEOS Strategy for Carbon Observations from Space*, in response to the Group on Earth Observations Carbon Strategy. CEOS is also responding to the Global Earth Observation System of Systems (GEOSS) Water Strategy Report by preparing a *CEOS Strategy for Water Observations from Space*, which was recently endorsed by Space Agencies at the CEOS Plenary in November.

* This report was delivered by Australia as CEOS Chair country.

CEOS ensures international coordination of civil space-based Earth observation programs and promotes exchange of data to optimize societal benefit and inform decision making for securing a prosperous and sustainable future for humankind.

CEOS Agencies

Agencia Espacial Mexicana (AEM), Mexico	International Geosphere-Biosphere Programme (IGBP)
Agence Gabonaise d'Études et d'Observations Spatiales (AGEOS), Gabon	International Ocean Colour Coordinating Group (IOCCG)
Agenzia Spaziale Italiana (ASI), Italy	International Society of Photogrammetry and Remote Sensing (ISPRS)
Agensi Angkasa Negara (ANGKASA), Malaysia	MEXT (Ministry of Education, Culture, Sports, Science, and Technology)/Japan Aerospace Exploration Agency (JAXA)
Australian Bureau of Meteorology (BoM)	Korea Aerospace Research Institute (KARI)
Belgian Federal Science Policy Office (BELSPO)	National Aeronautics and Space Administration (NASA), USA
Canada Centre for Mapping and Earth Observation (CCMEO)	National Oceanic and Atmospheric Administration (NOAA), USA
Canadian Space Agency (CSA)	National Remote Sensing Center of China (NRSCC)
Centre National d'Études Spatiales (CNES), France	National Satellite Meteorological Center/China Meteorological Administration (NSMC/CMA)
Centro para Desarrollo Tecnológico Industrial (CDTI), Spain	National Space Agency of Ukraine (NSAU)
China Center for Resources Satellite Data and Applications (CRESDA)	National Space Research Agency of Nigeria (NASRDA)
Chinese Academy of Space Technology (CAST)	Netherlands Space Office (NSO)
Comisión Nacional de Actividades Espaciales (CONAE), Argentina	Norwegian Space Centre (NSC)
Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	Russian Federal Space Agency (ROSCOSMOS)
Crown Research Institute (CRI), New Zealand	Russian Federal Service for Hydrometeorology and Environmental Monitoring (ROSHYDROMET)
Council for Scientific and Industrial Research (CSIR) Satellite Applications Center (SAC), South Africa	Scientific and Technological Research Council of Turkey (TÜBITAK-Uzay)
Deutsches Zentrum für Luft-und Raumfahrt (DLR), Germany	South African National Space Agency (SANSA)
Earth System Science Organisation (ESSO), India	Swedish National Space Board (SNSB)
European Commission (EC)	United Kingdom Space Agency (UKSA)
European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT)	United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)
European Space Agency (ESA)	United Nations Educational, Scientific and Cultural Organization (UNESCO)
Geo-Informatics and Space Technology Development Agency (GISTDA), Thailand	United Nations Environment Programme (UNEP)
Geoscience Australia (GA)	United Nations Food and Agriculture Organization (FAO)
Global Climate Observing System (GCOS)	United Nations Office for Outer Space Affairs (UNOOSA)
Global Geodetic Observing System (GGOS)	United States Geological Survey (USGS)
Global Ocean Observing System (GOOS)	Vietnam Academy of Science and Technology (VAST)
Global Terrestrial Observing System (GTOS)	World Climate Research Programme (WCRP)
Indian Space Research Organisation (ISRO)	World Meteorological Organization (WMO)
Instituto Nacional de Pesquisas Espaciais (INPE), Brazil	
Intergovernmental Oceanographic Commission (IOC)	
International Council for Science (ICSU)	