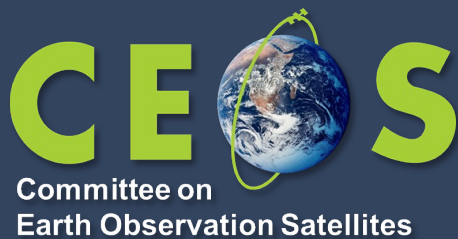


CEOS Executive Officer Report



Marie-Claire Greening
CEOS Executive Officer
WGDisasters-18
4 October 2022

CEOS Mission & Objectives



Mission: 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.

Primary Objectives:

- ❖ To optimise the benefits of space-based Earth observation
- ❖ To serve as the focal point for international coordination of space-based Earth observation activities
- ❖ To encourage complementarity and compatibility



CEOS Long-term Priorities



- ❖ Ensure that climate observation requirements identified by the Global Climate Observing System (GCOS) – and implications of the Paris Climate Agreement – are addressed.



- ❖ Ensure, in the context of the Sendai Framework for Disaster Risk Reduction 2015-2030, that CEOS Agency data are made available in support of disaster risk reduction and that CEOS continues engagement with UN agencies and authorities.



- ❖ Ensure that space-based Earth observations support the success of the next decade of the Group on Earth Observations (GEO), and that CEOS engagement in GEO governance and leadership is enhanced.



- ❖ Proactively engage in global discussions on the critical challenges that face society, in support of the UN 2030 Agenda for Sustainable Development.



CNES CEOS Chair Priorities 2022

Paths to Sustainability: from strategy to practical measures



The 2022 Chair priorities are :

- ❖ Priority 1: **Disaster Risk Reduction and Response, & Capacity Building**
to ensure long-term sustainability of CEOS strategies
- ❖ Priority 2: **CEOS Support to the UNFCCC Global Stocktake**
to ensure a strong and unified CEOS support to the UNFCCC Global Stocktake
- ❖ Priority 3: **Support to CEOS Cal/Val Initiatives**
to increase CEOS Agency Cal/Val Collaboration



WGDisasters Mission & Objectives



Mission: The CEOS WGDisasters ensures the sustained coordination of disaster-related activities undertaken by the CEOS Agencies and acts as an interface between CEOS and the community of stakeholders and users involved in risk management and disaster reduction.

Objectives:

- ❖ Support the efforts of Disaster Risk Management authorities in protecting lives and safeguarding property by means of satellite-based EO and science-based analyses.
- ❖ Foster increased use of EO in support of Disaster Risk Management.
- ❖ Support the implementation of the UNDRR Sendai Framework for Disaster Risk Reduction, and in particular contribute to its Priority One, “Understanding Risk”.
- ❖ Raise the awareness of politicians, decision-makers, and major stakeholders of the benefits of using satellite EO in all phases of Disaster Risk Management.



Governance & Work Planning



- ❖ Four key governing documents primarily guide the work of CEOS:
 1. [CEOS Terms of Reference](#) defines the mission and scope of CEOS activities
 2. [CEOS Strategic Guidance document](#) articulates the overarching long-term (7-10 years) purpose and goals of CEOS
 3. [CEOS Governance and Processes](#) document provides guidelines on the structure, operations, and processes CEOS employs to achieve its goals
 4. [CEOS Work Plan](#) (3-year rolling) sets forth near-term actions to achieve the goals outlined in the CEOS Strategic Guidance document

- ❖ The CEO is the custodian of all CEOS Governing Documents, including the annual update of the 3-year CEOS Work Plan and the definition and monitoring of the deliverables it informs



CEOS Work Plan



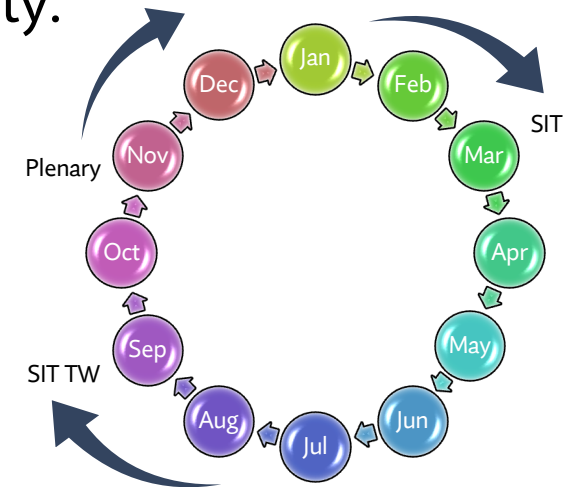
CEOS Committee on Earth Observation Satellites



3-year plan updated by all CEOS entities every year and put forward for formal endorsement at SIT in March. Rigorous work planning, execution and monitoring is critical to CEOS's credibility.

CEOS Deliverable Tracking Tool 2.0

Number	Title	Status	Creation year	Completion date	Description
CEOS-19-04	Iteratively respond to GEOSS/IAI Data Coordination team's definitions of 'Applications Ready...	open	2019	2021 Q4	GEOSS/IAI will internally lead the development of EAV and AHD-based on both...
CEOS-20-01	CEOS Response to GEOSS/IAI Requirements	open	2020	2021 Q3	Very slight updates to EO data requirements are expected as result of the EAV...
CEOS-21-01	Explore the relationship between observability and mission function at different scales by...	open	2021	2022 Q4	This work will explore the relationship between observability and mission fun...
CEOS-21-02	Explore concepts to improve the operational connection between BOMs and broader information systems	open	2021	2022 Q3	Explore and identify areas with other organisations including for...
CEOS-17-05	Carve and production of biomass products from CEOS missions	open	2017	2022 Q4	Development of a coordinated central strategy across NOAA and ESA biomass...
CEOS-19-02	Phase II RAD Programme for GFO	open	2019	2022 Q1	The existing GFO RAD programme and corresponding data supply activity...
CEOS-19-03	Early Warning Module for GFO	open	2019	2021 Q1	Staring missions continue through the GFO cycle for the definition of a...
CEOS-19-04	Forest biomass measurements for GFO countries	open	2019	2022 Q1	The new generation of Active Ground Biomass measurement missions offers great...
CEOS-19-05	Forest applications in support of the CEOS AEO strategy	open	2019	2021 Q4	The US Forests and Biomass team will support the CEOS AEO strategy thro...
CEOS-20-01	Develop CEOS AEO/II roadmap	open	2019	2021 Q4	The AEO/II roadmap is part of the broader convention engagement...
CEOS-20-02	Integrated Carbon Cycle Monitor between CEOS and the UNFCCC	open	2019	2021 Q4	Building on the numerous connections established by WGM missions to date...
CEOS-20-04	Space Data support to GFO Capacity Building component	open	2020	2021 Q4	Support to GFO Capacity Building Component through the USGS Caltech te...
CEOS-20-05	Support and encourage space data uptake in GFO countries	open	2020	2021 Q4	Awareness/education/coverage information and facilitation of discovery/uptake...
CEOS-21-01	OSTI Prototype Products and Guidance	open	2021	2021 Q4	Develop prototype CEOS data products and associated user guidance material in...
CEOS-21-02	National memory/legacy data group	open	2021	2021 Q2	Establish a set of national memory/legacy data to provide feedback on the...
CEOS-21-03	Forest Biomass Reference Network	open	2021	2022 Q4	Further development and support for the concept of the Forest Biomass...
CEOS-21-04	CEOS UNFCCC GGT Strategy	open	2021	2021 Q2	Prepare an outline strategy paper proposing the CEOS approach to support for...
CEOS-18-06	Advanced Multi-lingual WMOE on Radar Backscatter	open	2018	2021 Q2	Provide a multi-lingual WMOE document (English, French, Spanish, Portuguese)...
CEOS-18-09	Land Cover and Land Use Change WMOE	open	2018	2021 Q2	Provide a WMOE document (English, French, Spanish, Portuguese) on Land Cover and Land Use Change...
CEOS-19-06	Provide CB support to Hyperspectral Remote Sensing	open	2019	2022 Q1	Provide free & open learning material for Hyperspectral remote sensing...
CEOS-20-01	Earth Observations Toolkit for Sustainable Cities and Human Settlements Training Webinar	open	2020	2021 Q4	Training focused on the Earth Observations Toolkit for Sustainable Cities and...
CEOS-20-04	Avatar Resolutions Awareness Webinar	open	2020	2021 Q4	Work with WMOE to provide a 'super' resolutions awareness webinar...
CEOS-20-05	Establish the Earth Observation Training, Education, and Capacity Development Network (EOTEC) Deputies	open	2020	2021 Q2	Establish the Earth Observation Training, Education, and Capacity Development...
CEOS-20-06	Metadata Standards Tiger Team	open	2020	2021 Q4	Selective and definition of metadata standards for the exchange and processing...
CEOS-20-07	Best Practice Guide to Learning	open	2020	2021 Q2	Best practice guide to Learning



Detailed work defined as *deliverables*: outlined in the WP, reconciled and tracked in [CEOS deliverable tracking tool](#)



CEOS Work Plan Structure



	Chapter in Work Plan	Responsible
1	Climate Monitoring, Research, and Services	WGClimate
2	Carbon Observations in Support of Climate Science and Policy	Cross-entity
3	Observations in Support of the Global Stocktake of the UNFCCC	Cross-entity
4	Observations for Agriculture	Cross-entity
5	Observations for Disasters	WGDisasters
6	Observations for Water	Cross-entity
7	Data Quality	WGCV
8	Capacity Building and Data Democracy	WGCapD
9	Data Discovery, Access, Preservation, Usability and Exploitation: approaches, systems, tools and technologies	WGISS
10	Advancement of the CEOS Virtual Constellations	VCs (includes ARD Oversight Group)
11	Support to Other Key Stakeholder Initiatives	SDG Coordination Group, Biodiversity experts, COVERAGE, COAST AHT
12	CEOS Services	



CEOS Deliverables 2022-2024



	Chapter	Closed	Overdue	New	On track
1	Climate Monitoring, Research, and Services		1		6
2	Carbon Observations in Support of Climate Science and Policy		1		10
3	Observations in Support of the Global Stocktake of the UNFCCC		4		6
4	Observations for Agriculture		1		3
5	Observations for Disasters	1	3		9
6	Observations for Water	-	-		-
7	Data Quality		1		7
8	Capacity Building and Data Democracy	5	1	2	23
9	Data Discovery, Access, Preservation, Usability and Exploitation: approaches, systems, tools and technologies	1			6
10	Advancement of the CEOS Virtual Constellations	1	6		20
11	Support to Other Key Stakeholder Initiatives	5	2	2	7
	Totals	13	22	4	95



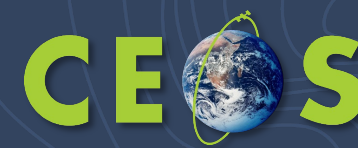
Deliverable deadlines



Chapter		Overdue	Due by end 2022	Due in 2023	Due in 2024 & beyond
1	Climate Monitoring, Research, and Services	1	3	2	1
2	Carbon Observations in Support of Climate Science and Policy	1	2	8	
3	Observations in Support of the Global Stocktake of the UNFCCC	4	2	4	
4	Observations for Agriculture	1	2	1	
5	Observations for Disasters	3	1	4	4
6	Observations for Water	-	-	-	-
7	Data Quality	1	3	3	1
8	Capacity Building and Data Democracy	1	16	8	1
9	Data Discovery, Access, Preservation, Usability and Exploitation: approaches, systems, tools and technologies		3	3	
10	Advancement of the CEOS Virtual Constellations	6	10	5	5
11	Support to Other Key Stakeholder Initiatives	2	7	2	
	Totals	22	49	38	12

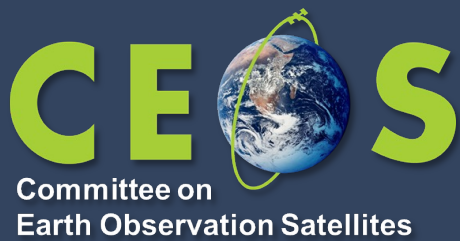


WGDisasters Deliverables



Number	Objective/Deliverable Title	Projected Completion	Responsible CEOS Entity(ies)
DIS-15-04	Implementation of data coordination for the GEO GSNL initiative	2030 Q4	WGDisasters
DIS-18-01	Report on follow-on actions to Landslide Pilot	2022 Q1	WGDisasters
DIS-19-03	Seismic Demonstrator and Report	2022 Q2	WGDisasters
DIS-20-01	CEOS Contribution to GEO GSNL Initiative for DRR	2024 Q4	WGDisasters WGCapD WGISS
DIS-20-02	GNSL evolution feasibility study	2022 Q4	WGDisasters
DIS-20-03	CEOS Support for GEODARMA (Data Access for Risk Management) Regional Implementation	2022 Q4	WGDisasters
DIS-20-04	Landslide demonstrator showing value of combining optical and radar data for multi and cascading hazard disaster risk prediction and assessment products (maps and models in areas of high known risk due to activity, exposure and vulnerability), with report on effective practices, key data and practices	2024 Q4	WGDisasters
DIS-20-05	RO Demonstrator Proposal (3 to 5 PDNA over two years)	2023 Q4	WGDisasters
DIS-20-06	Flood Pilot with GEO-LEO-SAR for areas of intensive flood risk	2022 Q1	WGDisasters
DIS-22-01	Flood Pilot with GEO-LEO-SAR "Understanding Flood Risk from Space"	2024 Q4	WGDisasters
DIS-22-02	Volcano Demonstrator Sustainability Report	2023 Q4	WGDisasters
DIS-22-03	Use cases for the Operationalization of EO at the local level	2023 Q3	WGDisasters
DIS-22-04	Wildfire Pilot Final Report	2023 Q4	WGDisasters

Thank you!



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WGDisasters-18
4 October 2022