

**Earth Information Day
3 November 2021**

AGENDA

10:00-13:00	DIALOGUE
	Welcome and opening remarks
10:00-10:10	SBSTA Chair Andrés Couve, Minister of Science, Technology, Knowledge and Innovation, Chile George Freeman, Minister for Science, Technology and Innovation, UK
Theme 1	Updates on Earth observation of the climate system and climate change
10:10-10:20	Insights from the IPCC AR6 WGI report: Earth observations, the current state of the climate system, constraints on possible climate futures Valérie Masson-Delmotte and Panmao Zhai, IPCC
10:20-10:30	The State of the Global Climate and WMO's role in Coordinating the Global Observing System Anthony Rea, WMO
10:30-10:40	Linking ocean carbon observation to effective climate targets Vladimir Ryabinin, IOC and Anya Waite GOOS
10:40-10:50	How space-based observations can support NDCs, national inventories and the global stocktake, Albrecht von Bargaen, CEOS/CGMS Working Group on Climate
10:50-11:00	GEO: Updates on Earth Observation applications across key sectors, Sara Venturini, GEO
11:00-11:10	<ul style="list-style-type: none"> • Markus Woltran on behalf of Simonetta Di Pippo, United Nations Office for Outer Space Affairs (UNOOSA) • Barbara Ryan, World Geospatial Industry Council (WGIC) • Carlos Garcia-Soto, Group of Experts of the United Nations Regular Process for Global Reporting and Assessment of the State of the Marine Environment, including Socioeconomic Aspects
11:10-11:35	Discussion
Theme 2	Interpreting Earth observations for implementing the Paris Agreement – developments, opportunities and challenges
11:35-11:45	Systematic Observations Supporting the GST Frank-Martin Seifert, ESA, on behalf of the Earth Observation community
11:45-11:55	Adding value to National Adaptation Plans Kenel Delusca, Least Developed Countries Expert Group Chair
11:55-12:05	Risk Assessments to Inform Adaptation and Loss and Damage Adelle Thomas, Climate Analytics & University of The Bahamas
12:05-12:15	Contributions and feedback between scientific and indigenous knowledge Virginia Marshall, Australian National University
12:15-12:30	Examples of developments, opportunities and challenges <ul style="list-style-type: none"> • Gabriel Kpaka, Sierra Leone on behalf of the LDCs • Arry Simon, Antigua & Barbuda on behalf of AOSIS • Yongxiang Zhang, National Climate Centre, China Meteorological Administration, China • Sheylla Sulca Paredes, National Weather and Hydrology Service of Peru • Samantha Burgess, Vincent-Henri Peuch, EU Copernicus Climate Change Programme
12:30-12:55	Discussion
	Close – SBSTA Chair

12:55-13:00	Closing remarks by SBSTA Chair
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DRAFT list of possible Posters:

13:15-14:45	Poster Session	
Theme 1	Updates on Earth observation of the climate system and climate change	Presenter(s) ¹
State of the Global Climate State of the Global Climate Observing System: GCOS Status Report 2021 GBON and SOFF: Filling the gaps in global weather and climate data coverage		John Kennedy, UK Met Office Han Dolman, Royal NIOZ Lars Peter Riishojgaard, WMO
International Coordination of Long-term Satellite Climate Data Records Climate data record in action: Use cases of Earth observations aiding decision-making		Jeffrey L. Privette, Wenying Su, and Jörg Schulz, Alexandra Nunes, Albrecht von Bargen, Guangxin He, Ken Holmlund on behalf of the CEOS/CGMS Working Group on Climate
Pilot, Country-scale Top-down Budgets of CO ₂ Emissions and Removals Associated with Terrestrial Carbon Stock Changes Pilot Top-down Methane Emissions Estimates by Sector and Country to Support the Global Stocktakes		Brendan Byrne, David Baker, John Worden and David Crisp on behalf of the CEOS AC-VC Greenhouse Gas Team and OCO-2 MIP
ESA Climate Change Initiative: new insights and global datasets for climate monitoring		Claire MacIntosh, on behalf of the ESA Climate Office
SLCF's emission tracker: from field observations to data assimilation/inversions assisting inventory methodology development and efficient emission reductions		Yugo Kanaya, JAMSTEC
Global Ocean Acidification Observations – connecting climate and SDG indicators		Kirsten Isensee and Katherina Schoo, IOC-UNESCO
Heat stored in the Earth system: Where does the energy go?		Karina Von Schuckmann, Copernicus Marine Service
National Inventory of Glaciers and Lagoons of Peru		Gladis Celmi Henostroza, National Institute for Research on Glaciers and Mountain Ecosystems, Peru
Measuring and addressing global and local climate change impacts on biodiversity through Earth Observations		Adriana Radulovici, GEO BON
From data to action – the International Methane Emissions Observatory		Manfredi Caltagirone, UNEP
Evidence for Abrupt Changes, Tipping Points and Cascading Impacts in the Earth System		Hannah Liddy, Future Earth
Theme 2	Interpreting Earth observations for implementing the Paris Agreement – developments, opportunities and challenges	Presenter(s) ¹
Pilot space-based products and harmonization efforts on Agriculture, Forestry and Other Land Use (AFOLU) to support the Global Stocktakes		Frank-Martin Seifert and Osamu Ochiai on behalf of the CEOS Land Surface Imaging Virtual Constellation Forest and Biomass Subgroup
GHG Monitoring from Space: A mapping of capabilities across public, private, and hybrid missions		Veronika Neumeier, GEO; Aaron Davitt, WattTime/Climate TRACE; Sara Venturini, GEO; Harsha

¹ Please see the Earth Information Day webpage for a full listing of affiliations and organisations

	Vardhan Madiraju and Barbara Ryan, WGIC
Moving towards a European capacity to monitor anthropogenic CO2 emissions – the CoCO2 and VERIFY projects	Richard Engelen, Gianpaolo Balsamo, Philippe Peylin, CoCO2 and VERIFY consortia
How Earth observations can inform the Paris Agreement	Simon Pinnock, ESA, on behalf of Michaela Hegglin
Recent progress and future development in terrestrial GHG flux observations as an essential climate variable	Werner Kutsch and colleagues, ICOS
How can ocean and coastal observations inform National Adaptation Plans?	Emily Smail, Louis Celliers, GEO Blue Planet
Let the ocean breathe again – Responding to ever-increasing need to protect and sustainably manage ocean services by fully harnessing the expanding volumes of ocean oxygen data	Veronique Garcon, Andreas Oschlies, Marilaure Gregoire, Maciej Telszewski and Kirsten Isensee, IOC-UNESCO
Estimating and predicting global ocean and terrestrial carbon uptakes in a decadal time scale	Michio Watanabe, JAMSTEC
An overview of the state of risk and EWS from the GFCS State of Climate Services reports 2020 and 2021	Veronica F. Grasso, Maxx Dilley, Nakiete K. Msemu, WMO
Climate reanalysis to support sustainable agriculture: Biosuccess	Samantha Burgess, Copernicus Climate Change Service
WMO Integrated Global Greenhouse Gas Information System: targeting and tracking climate actions	Phil DeCola, Jocelyn Turnbull, Riley Duren, Shuangxi Fang, Trinh Thang Long, Oksana Tarasova, WMO IG3IS
The Global Forest Observations Initiative: A Partnership for Tracking Forests for Climate Action	Frank-Martin Seifert, ESA on behalf of the GFOI
Monitoring the cryosphere in the Hindu Kush Himalaya – measurements, analysis and dissemination	Miriam Jackson, ICIMOD
Climate Information for Regional Sustainable Development: Support Ecological Civilization Construction	Lijuan Ma, National Climate Centre, China Meteorological Administration, China
Asian High Mountain Observations - International and regional collaboration, networks for climate resilience	Mandira Shrestha, ICIMOD and the Mountain Research Initiative