



Earth Information Day 2020

30 November 2020

PRESENTATIONS

All times shown in CET

08:30-09:30	Poster Q&A Between registered participants and poster contributors	PLEASE NOTE: Posters are available throughout the Climate Change Dialogues - details of titles and contributors below
10:00-11:20	Updates on the state of the global climate and its observation	<i>Chair:</i> SBSTA Chair
10:00	Opening remarks	SBSTA Chair
10:05	Climate change drivers, indicators and impacts	John Kennedy, World Meteorological Organization (WMO)
10:15	Heat stored in the Earth system: Where does the energy go?	Karina von Schuckmann, Mercator Ocean
10:25	Closing the global carbon cycle and closing the emissions gap	Pierre Friedlingstein, GCP and Anne Olhoff, UNEP
10:35	Covid-19 imprints on the short- and long-lived chemical species in the troposphere	Prabir K. Patra, Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
10:45	10 New Insights in Climate Science	Erik Pihl, Future Earth
10:50	The Status of the Global Climate Observing System: Plans and Progress	Anthony Rea (GCOS/WMO)
11:05	Questions and Discussion	
11:20-12:30	Recent advances in Earth observation technology and data processing to support decision making	<i>Chair:</i> SBSTA Chair
11:20	Short presentations and discussion – Mitigation	Phil DeCola, IG3IS; Richard Engelen, Copernicus; David Crisp, CEOS; María José Sanz Sánchez, GFOI;
11:50	Short presentations and discussion – Adaptation	Catherine Nakalembe, GEOGLAM; Mariane Diop Kane, GFCS; Louis Celliers, GEO Blue Planet
12:20	Closing remarks	SBSTA Chair
17:00-18:00	Poster Q&A between registered participants and poster contributors (Repeated)	



POSTERS

Updates on the state of the global climate and its observation

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Global	
1. Heat stored in the Earth system: Where does the energy go?	Karina von Schuckmann, Mercator Ocean, on behalf of GCOS
2. Observation of Greenhouse gas emissions from Space during COVID-19 pandemic	Hiroshi Suto, Japan Aerospace Exploration Agency (JAXA)
3. 10 New Insights in climate science (TBC)	Erik Pihl, Future Earth
Land and atmosphere	
4. Terrestrial satellite data records for essential climate variables – ESA Climate Change Initiative	Emilio Chuvieco, Alcala University
5. Atmosphere satellite data records for essential climate variables – ESA Climate Change Initiative	Michel van Roozendaal, BIRA
Ocean	
6. Ocean satellite data records for essential climate variables – ESA Climate Change Initiative	Shubha Sathyendranath, PML
7. Monitoring and assessment of ocean acidification by Japan Agency for Marine-Earth Science and Technology (JAMSTEC)	Akihiko Murata, Katsunori Kimopy, Masahide Wakita; JAMSTEC
Cryosphere	
8. Cryosphere satellite data records for essential climate variables – ESA Climate Change Initiative	Thomas Nagler, ENVEO
9. Tackling Rapid Warming and Environmental Changes in the Third Pole: from Observation to Climate Information Services	Qingchen Chao, Lijuan Ma, Pengling Wang, National Climate Centre, China Meteorological Administration
10. Highlights from the MOSAiC Expedition (Multidisciplinary drifting Observatory for the Study of Arctic Climate).(TBC)	Rodica Nitu, MOSAiC (TBC)
11. ANDEX – A new South American initiative to develop a regional hydroclimate project in the Andean region	René Darío Garreaud, GEWEX
Updates on the state of global climate observation	
1. Update on GCOS status report and plans (TBC)	TBC, GCOS
2. Supporting UNFCCC Objectives Through International Coordination of Long-term Satellite Records	Jeffrey L. Privette, NOAA; Joerg Schulz, EUMETSAT; Alexandra Nunes, Hamtec Consulting Ltd; Albrecht von Bargaen, Deutsches Zentrum für Luft- und Raumfahrt e.V.; Wenying Su, NASA; on behalf of the Joint CEOS/CGMS Working Group on Climate
3. VERIFY project: define an observation-based system for monitoring & verifying greenhouse gas fluxes	Philippe Peylin, LSCE - CNRS, France
4. Creating a Global Atmospheric CO2 Inventory to Support the Global Stocktake	David Crisp, JPL/Caltech; Mark Dowell, JRC; Albrecht von Bargaen, DLR; on behalf of the Joint CEOS/CGMS Working Group on Climate GHG Task Team
5. OceanOPS report card and animal observation network (TBC)	Toste Tanhua and Anya Waite, GOOS
6. COVID-19 implications on the in-situ ocean observing system (TBC)	



Understanding global changes and using observation information to inform responses to associated risks and consequences

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GHG monitoring and assessment	
1. Climate data record in action: Use cases of Earth observations aiding decision-making	Wenying Su, NASA; Werner Balogh, WMO; on behalf of the Joint CEOS/CGMS Working Group on Climate and WMO
2. The CO2 Human Emissions (CHE) project – moving towards a European capacity to Monitor Anthropogenic CO2 Emissions	Gianpaolo Balsamo, CHE (TBC)
3. Towards an International standard for Urban GHG Monitoring and assessment	Oksana Tarasova, Jocelyn Turnbull, Phil DeCola, IG3IS
4. User requirements in the Integrated Global Greenhouse Gas Information System	Oksana Tarasova, Jocelyn Turnbull, Phil DeCola, IG3IS
5. (TBC)	GFOI
Climate services provision	
6. Copernicus Climate Change Service (C3S): a data value chain to support climate adaptation	Copernicus
7. Copernicus Climate Change Service (C3S): from raw observations to users; making sense of the data	
8. WMO Methodology for Cataloguing Hazardous Weather, Climate, Water and Space Weather Events	Jim Douris, WMO
9. Ocean science, data, and services for the UN 2030 Sustainable Development Goals	Karina von Schuckmann, Mercator Ocean; Elisabeth Holland University of South Pacific, Fiji; Peter Haugan, Institute of Marine Research, Bergen & University of Bergen; & Peter Thomson, United Nations Secretary General's Special Envoy for the Ocean, Fiji
10. Updates on regional and national climate services frameworks and funding	GFCS
Risk assessment and adaptation	
11. Applications of Integrated Earth Information in achieving SDGs and promoting Ecological Civilization Construction in China	Qingchen Chao, National Climate Centre (NCC), China Meteorological Administration (CMA); Caiying Wei, National Satellite Meteorological Center, CMA; Changxing Li, Meteorological Observation Center, CMA; Lijuan Ma and Pengling Wang, NCC, CMA
12. Combining Earth observation and policy to put ecosystems at the heart of resilient development in Costa Rica	National Center of GeoEnvironmental Information - CENIGA)
13. Monitoring and understanding the ongoing evolution of global mountain systems: Hotspots of snow cover change and other examples	Claudia Notarnicola, Ruth Sonnenschein, James Thornton, Elisa Palazzi, Carolina Adler, GEO Mountains Initiative
14. The influence of climate change on global snow cover distribution: Using the DLR Global SnowPack to identify snow cover trends and extreme events	Andreas Dietz, Sebastian Rößler, Claudia Künzer, DLR



15. The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems

[Delphine Lannuzel, University of Tasmania](#)