

## Earth Information Day

SBSTA 51 / COP 25 – Tuesday 3 December 2019 – Loa Plenary

### AGENDA

<b>10.00</b>	<b>Opening</b>
	<p>Welcome and opening remarks by Paul Watkinson, SBSTA Chair</p> <p>Statement by Andrés Couve, Science, Technology, Knowledge and Innovation Minister of Chile</p> <p>Statement by Petteri Taalas, Secretary General of the WMO</p>
<b>10.10</b>	<b>Updates on the state of the global climate</b>
	<p><b>Climate change drivers, indicators and impacts</b> John Kennedy, World Meteorological Organization (WMO)</p> <p><b>Observed changes and impacts and projected risks identified in the IPCC special reports on climate change and land and ocean and cryosphere in a changing climate (SRCCL and SROCC)</b> Valerie Masson-Delmotte, IPCC WGI and Hans-Otto Pörtner, IPCC WGII</p>
	Discussion
<b>10.45</b>	<b>Updates on implementing Earth observation: for region and country support, and needs</b>
	<p><b>National Systematic Observations of the Climate as part of a Global Effort</b> Carolin Richter, Global Climate Observing System (GCOS) / WMO Integrated Global Observing System (WIGOS)</p> <p><b>Space-based observation for supporting NDCs, national inventories and the global stocktake</b> Joerg Schulz and David Crisp, Committee on Earth Observation Satellites (CEOS) and the Coordination Group for Meteorological Satellites (CGMS) Joint Working on Climate</p> <p><b>Ocean observation: latest developments in support of the Paris Agreement</b> Toste Tanhua, Global Earth Observing System (GOOS), IOC-UNESCO</p>
	Discussion
<b>11.40</b>	<b>Earth observation for science, policy and practice: retooling global cooperation to respond to future climate risk</b>
Panel discussion	<p><b>Panel discussion</b> chaired by Steven Ramage, GEO</p> <p>Maisa Rojas Corradi, Center for Climate and Resilience Research, Chile</p> <p>Tuntiak Katan, Confederation of Indigenous Organizations of the Amazon Basin</p> <p>Jean-Noël Thépaut, Copernicus Climate Change Service (C3S)</p> <p>Prabir K. Patra, Japan Agency for Marine-Earth Science and Technology (JAMSTEC)</p> <p>Mokoena France, Lesotho</p> <p>Cheryl Jeffers, Saint Kitts and Nevis</p>
<b>12.55</b>	<b>Reflections and invitation to the poster session</b>
	Paul Watkinson, SBSTA Chair
<b>13.00</b>	<b>Break</b>
<b>13.15</b>	<b>Poster session</b>
	<p>Presented in the foyer adjacent to the plenary room</p> <p>With opportunity for dialogue with poster presenters and the morning's speakers</p>
<b>15.00</b>	<b>Close</b>

## POSTERS

### Updates on the State of the global climate

#### [Earth's ice from Space](#)

Isobel Lawrence, Centre for Polar Observation and Modelling (CPOM)

#### [The Global Climate 2015-2019](#)

John Kennedy, WMO

### Updates on implementing Earth observation: for region and country support, and needs

#### [Caribbean – gaps and needs](#)

Carlos Fuller, Belize

#### [A constellation architecture for space-based observations of greenhouse gases: measurement approaches, datasets, and models in support of the global stocktake](#)

David Crisp, CEOS / CGMS WGClimate GHG Task Team

#### [Space-based capabilities to deliver climate data records for essential climate variables](#)

Joerg Schulz, CEOS / CGMS

#### [Toward an integrated observing system for the Southeast Pacific Ocean](#)

Diego Narvaez, Chile

#### [ESA Climate Change Initiative](#)

Frank Martin Seifert, European Space Agency

#### [Global Forest Observation Initiative \(GFOI\)](#)

Frank Martin Seifert, European Space Agency

#### [Upper air observation gaps in the South Pacific](#)

Bipen Prakash, Fiji Meteorological Service, Fiji

#### [Reviewing the ECV observation requirements: GCOS' 4th Assessment Cycle 2020–2022](#)

Stephen Briggs, GCOS

#### [Atmospheric Aerosol: The missing link between Climate and Air Quality](#)

Valentin Aich, GCOS / WMO

#### [Consistent monitoring of water cycle variability with Earth observations: What are we missing?](#)

Valentin Aich, GCOS

#### [Heat stored in the Earth system: Where does the energy go?](#)

Karina von Schuckmann, GCOS / Mercator Ocean, France

#### [Regional Workshops in Association with the UNFCCC](#)

Carolin Richter, GCOS / WMO

#### [Observations to support and monitor responses to climate change](#)

Nigel Tapper, GCOS

[\*\*The Global Ocean Observing System for Marine Life\*\*](#)

Nic Bax, CSIRO

[\*\*Ocean acidification - aligning the SDG and global climate observing indicators\*\*](#)

Katherina Schoo, IOC-UNESCO

[\*\*Ocean observing system report card 2019\*\*](#)

Emma Hislop, IOC-UNESCO

[\*\*Regional research infrastructures supporting the global monitoring of ECVs\*\*](#)

Werner Kutsch, ICOS

[\*\*Towards a European monitoring and verification support capacity\*\*](#)

Emmanuel Salmon, ICOS

[\*\*Key findings from decadal Japanese satellite observations for climate change\*\*](#)

Osamu Ochiai, Japan Aerospace Exploration Agency (JAXA)

[\*\*Observations to explain climate-induced changes in the global biosphere\*\*](#)

Mark Dowell, Joint Research Centre (JRC), Italy

[\*\*The carbon cycle and the climate, an evolving system?\*\*](#)

David Crisp, Jet Propulsion Laboratory, California Institute of Technology, USA

[\*\*Delivering sustained, coordinated and integrated observations of the Southern Ocean for global impact\*\*](#)

Sebastian Swart, Southern Ocean Observing System (SOOS)

**Earth observation for science, policy and practice: retooling global cooperation to respond to future climate risk**

[\*\*A global initiative to improve living conditions for indigenous populations using Earth observation data\*\*](#)

Srini Sundaram, CANEUS

[\*\*Climate risk atlas of Chile: A tool for the development of sectoral adaptation plans\*\*](#)

Francisco Meza, Chile

[\*\*Data for biodiversity\*\*](#)

Horacio Samaniego, Chile

[\*\*Transparency in forest monitoring\*\*](#)

Christopher Martius, Center for International Forestry Research (CIFOR)

[\*\*Copernicus Climate Change Service \(C3S\): A European operational response to climate policies and action\*\*](#)

Jean-Noël Thépaut, C3S

[\*\*Tandem-L: Highly innovative radar satellite mission for climate research and environmental monitoring\*\*](#)

Alberto Moreira, German Aerospace Center (DLR)

[\*\*Sargassum outbreaks in the Caribbean\*\*](#)

Tarub Bahri, UN Food and Agriculture Organisation (FAO)

[\*\*Digital Earth Africa: decision-ready products from open data cubes\*\*](#)

Steven Ramage, Group on Earth Observations (GEO)

**[GEOGLAM: Adaptation and early warning for the agricultural sector](#)**

Sara Venturini, GEO

**Coastal blue carbon ecosystems - nature based solutions**

Kirsten Isensee, IOC-UNESCO

**[From OceanObs'19 to the Ocean Decade](#)**

Toste Tanhua, IOC-UNESCO

**[Ocean knowledge is key for climate action](#)**

Dan Laffoley, International Union for Conservation of Nature (IUCN)

**[Earth observation for science, policy and practice: Cases from the Asia-Pacific region](#)**

Eko Siswanto, JAMSTEC, Japan

**[Utilization of Earth observation data for furthering Earth system models' validation and sophistication in Japan's climate model development project, TOUGOU](#)**

Prabir Kumar Patra, JAMSTEC, Japan

**[Mapping and modelling vulnerability to dengue in Vietnam and the Philippines using geospatial and time-series approaches](#)**

Nga T. T. Pham, Vietnam National Space Center, Viet Nam

**[UK NCEO support for regional climate information: recent findings for Africa](#)**

Pedro Rodriguez Veiga, UK National Centre for Earth Observation

**[Climate change and air quality mitigations: why should we do it together](#)**

Sandro Fuzzi, WMO

**Note: Listed posters are attributed to the lead author or presenter. Full author lists will be available on the posters and in the Earth Information Day Summary Report.**