

Advancing Research for Seamless Earth System Prediction

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Science Summit on Seamless Research for Weather, Climate, Water, and Environment

The Science Summit, organized by the World Meteorological Organization's Commission for Atmospheric Sciences was held from 20 to 22 October 2017 in Geneva, Switzerland.

The Science Summit provided an opportunity to shape the new research agenda of the organization, building on the closer collaboration between weather, climate, water, and environment research. An additional focus of the Science Summit was to close the gap between research and the derived societal benefits. The keynote speeches, round table discussions, and World Cafe breakout sessions of the Science Summit revolved around the following five topics:

- Seamless prediction in 2023: Improving predictive capacity across weather, climate, water, and environment.
- Future infrastructures: Planning and investing in future infrastructures (computing, data handling, observations).
- Science for services: Developing and implementing a new interactive model for integrating research and operations.
- Nurturing scientific talents: Guaranteeing the sustainable development of science; breaking through geographical, gender, and age barriers; ensuring institutional continuity and transfer of knowledge.
- Innovation and resources: Catalyzing innovation and mobilizing resources in weather, climate, water, and environment research globally and locally.

The Science Summit created an inclusive, informal, and interactive forum for leading scientists from academia, the WMO community, and the private sector, as well as the representatives of funding agencies, to prioritize the key issues to be addressed in the five areas. Keynote addresses, panel discussions, and breakout group debates permitted the participants to share thoughts on how to promote both local and global exchange across the multiple disciplines related to Earth system sciences. In so doing, the Science Summit participants could outline a new framework for scientific cooperation in support of weather, climate, atmospheric composition, and related environmental research and its translation into new and better products and services.

An agenda, as well as the keynote talks of the Science Summit, can be found at <https://public.wmo.int/en/events/meetings/science-summit-seamless-research-weather-climate-water-and-environment>.

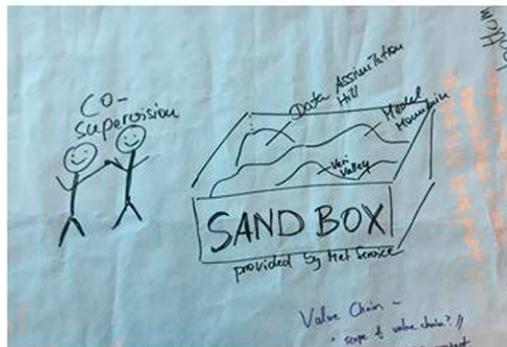


Fig. ES1. Further impressions from the World Cafe, where participants could express their view and visions also graphically.

Table ES2. List of participants.

Name	Country	Name	Country
Elizabeth Ebert Peter May	Australia	Cheryl Anderson Greg Pearson	New Zealand
Alice Marlene Grimm	Brazil	Abdulrasheed Darazo Zakariyau	Nigeria
Pierre Tabsida Zongo	Burkina Faso	Cynthia Celebre	Philippines
Michel Beland Lawrence Wilson	Canada	Janusz Filipiak	Poland
Min Chen Yihong Duan Yaqiang Wang Min Wen Hui Yu Haijia Zang	China	Ji hyeon Do Sangok Han Hyojeong Jeong Hyun-Suk Kang Dongkyou Lee Youngsan Park Jaegwang Won	South Korea
Alphonse Kanga	Congo	Violeta Balan	Moldova
Branka Ivancan-Picek Cleo Kosanovic	Croatia	Chin Ling Wong Alick Haruhiru	Singapore Solomon Islands
Abdalla Abdelrahman Baligh Mohamed Salah M. Okka	Egypt	Lucky Dalton Ntsangwane Abdelgadir Lado	South Africa South Sudan
Dula Shanko Lebeta Finland Antti Makela	Ethiopia	Dahanayake Ananda Jayasinghearachchi Joakim Langner	Sri Lanka Sweden
Philippe Dandin Véronique Ducrocq Marc Pontaud	France	Jörg Klausen Heike Kunz Philippe Sierra	Switzerland
Susanne Crewell Martin Goerber Sarah Jones Thomas Jung Matthieu Masbou Christian Plass-Duelmer Roland Potthast	Germany	Songkran Agsorn Yusuf Nsubuga Carla Cardinali Brian Golding Frederic Vitart Keith Williams	Thailand Uganda United Kingdom
Bozo Laszlo	Hungary	Doreen Mwara Pascal Waniha	Tanzania
Urip Haryoko Bagus Rachmat Rievan Ardhasena Sopaheluwakan Maman Sudarisman	Indonesia	Roelof Bruintjes James Butler Gregory R. Carmichael Brittany Croll Thomas Cuff Randall Dole Jenni Evans	United States
Kazuto Suda Munehiko Yamaguchi	Japan	Michael Morgan	
Ahmed Rasheed	Maldives	Shanna Pitter Rita Roberts	
Siham Sbi	Morocco	Duane Waliser	
Tun Hla Su Su Win	Myanmar		
Bartholomeus van den Hurk	Netherlands		