Key Questions

1. How can the value chain approach be used by researchers, system developers, communication experts and stakeholders for promotion of “science for services” concept? How can systems/service co-design be applied to attract research resources (people and funding) for basic, transitional and applied science?

2. What are the key elements of an interactive model for bringing research and operations closer together? Who are the key players? How can they work together to identify and articulate innovation requirements?

3. How can specific regional priorities be best identified and realized for a given research objective?

4. Which applications need most attention in the next six years and why? In what areas should we expect significant challenges beyond 2023 and how do we prepare for them?

5. How should research develop to provide required support for integrated urban services?

Key-note Speakers

Michel Jean

Michel Jean graduated from the Université du Québec à Montréal (UQAM) in Physics in 1982 and obtained his Masters degree in Meteorology from McGill University in 1987 after working within the Atmospheric Environment Service (AES) as an operational forecaster in various locations in Canada. He is currently the Director General of the Canadian Centre for Meteorological and Environmental Prediction. He has been coordinator to the WMO CBS Management Group on the Disaster Risk Reduction program and the chair of an inter-commission task team on Meteorological, Hydrological and Climate Services for Improved Humanitarian Planning and Response. He has been elected President of the WMO Commission for Basic Systems in December 2016.

Andrea Steiner

Andrea Steiner is a research scientist at the German Weather Service (DWD) within the department for meteorological analysis and modelling since 2013. Her research activities contribute to multi-lateral cooperation projects with the energy sector, where DWD aims at improving its numerical weather models for Renewable Energy applications.
Panelists

Veronique Bouchet

Veronique Bouchet is the Director of National Operations at the Meteorological Service of Canada, the Canadian equivalent of JMA. She has a PhD in atmospheric modelling applied to air quality during which she studied the coupling of atmospheric composition and meteorological and climate models. She held successively the positions of Director of Air Quality Research and Director of Meteorological Research overseeing the Canadian participation in TOMACS. She has been appointed as Chair of GURME the Global Atmospheric Watch Urban Meteorology and Environment Program of WMO. She will be presenting today the objectives of the GURME program and share the Canadian experience towards urban-scale meteorological and air quality forecast system during the 2015 Pan-American Games which occurred last summer in Toronto, Canada.

Celeste Saulo

Celeste Saulo has been appointed as the Director of the Argentine National Meteorological Service as of July 2014. As such, she is the Permanent Representative of Argentina to WMO. In June 2015, She has been elected as a member of the WMO Executive Council. She was the former Director of the Department of Atmosphere and Ocean Sciences at the Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina. In 1996, she got her Ph.D. in Atmospheric Sciences from the University of Buenos Aires. She currently serves the World Weather Research Program (WWRP) as a member of its Scientific Steering Committee.

Christopher Gan

Christopher Gan is a Senior Research Scientist at the Centre for Climate Research Singapore, Meteorological Service Singapore (MSS). He leads the Applied Modelling Branch which conducts research and development in atmospheric dispersion modelling. His key research interests include modelling smoke haze dispersion from biomass burning in Southeast Asia – from emissions to transport and downstream impacts on regional air quality. His work in this area supports the role of the ASEAN Specialised Meteorological Centre, hosted by MSS, in the monitoring and early warning of fires and smoke haze for the region. Prior to his involvement in research, he also worked as an operational weather forecaster at MSS.

Phil de Cola

Phil de Cola is Chief Science Officer of Sigma Space Corporation and Adjunct Professor in the Department of Atmospheric and Oceanic Sciences at the University of Maryland. He has served as an advisor on climate change and Earth observations for two administrations as Senior Policy Analyst in the White House Office of Science and Technology Policy (2007-2010). He also has served as Lead Scientist on a number of U.S. Government delegations to the Intergovernmental Panel on Climate Change (IPCC) from 2002 – 2010, and worked on the IPCC scientific assessments since 1994. He is the Chair of the Science Advisory Group for a WMO/UNEP global initiative, the Integrated Global GHG Information System (IG3IS), which has a goal of supporting the UNFCCC Paris Agreement and other GHG emission reduction policies and measures.

Nadia Pinardi

Nadia Pinardi holds a Ph.D. in Applied Physics from Harvard University, and she is associate tenure professor of Oceanography at Bologna University, Italy. Her interests range from ocean numerical modelling and predictions to data assimilation, numerical modelling of the marine physical-biological interactions and pollutants at sea. She has written more than hundred papers in peer reviewed journals on a wide range of subjects. The last topic of her research is the understanding of uncertainties in ensemble forecasting and oil spill numerical modelling coupled to operational oceanographic forecasts.