

**Environmental Prediction into the Next Decade:
Weather, Climate, Water and the Air We Breathe**

Technical Conference preceding CAS XV

(Incheon, Republic of Korea, 16-17 November 2009)

Agenda (13 November 2009)

Monday, 16 November 2009

8:15 Registration

9:00 Opening Ceremony

Dr Haman Cho, Director-General of National Institute of Meteorological Research, KMA
Dr Michel Béland, President of the WMO Commission for Atmospheric Sciences
Dr Len Barrie, Director of the WMO Research Department

10.00 – 10.30 Coffee break and photo

10.30 Opening Presentation

Application of In-Situ Observations to Weather, Water and Climate Issues
Ken Crawford, Vice Administrator, KMA

11.00 Session I: Future of Environmental Prediction

Keynote: The Frontiers of Global Prediction
Martin Miller

The WWRP Long Term Plan including the development of Regional Environmental Prediction Systems
Gilbert Brunet

THORPEX: Research to accelerate skill in the prediction of high impact weather from days to Weeks
David Burridge

Year of Tropical Convection: A project to improve weather and climate models
Duane Waliser

Integrated Systems for Weather and Air Quality Forecasting
Leif Laursen

12.30 – 13.30 Lunch

13:30 Session II: National and Regional Experiences and Future Plans

Keynote: Weather and climate prediction needs for Africa and the African High Impact Weather Information System
Aida Diongue-Niang

The application of global NWP models to operational weather forecasting
Si-lin Hilda Lam Kwong

Status and early results from the THORPEX Interactive Grand Global Ensemble and progress towards a Global Interactive Forecast System
David Parsons on behalf of Richard Swinbank

Nowcasting and short range forecasts of convective storms: The Korean Perspective
Dong-eon Chang

The Beijing 08 Forecast Demonstration Project and Urban Prediction Needs in China
Liang Feng

Numerical Weather, Environmental Prediction and Nowcasting for the 2010 Vancouver Winter Olympics
Charles Lin

15:15 – 15:45 Coffee break

Modeling physical processes in atmospheric models
Song-you Hong

Research and development plan for RHMSS/SEEVCCC
Borivoj Rakjovic

Impact of Climate Change over Pakistan
Muhammad Touseef Alam

Adaptive Global Observing Systems and early results from the Winter T-PARC Project
Zoltan Toth

An Overview and Early Outcomes of T-PARC: Improving Predictions of Tropical Cyclones and Winter Storms
Tetsuo Nakazawa

Outlook from the Data Assimilation Workshop: An example of a unique academic-operational partnership on education and training
Celeste Saulo

17:15 - 18:45 Session III: Poster Presentations

19.00 Conference Banquet

Tuesday, 17 November 2009

8.30 Session IV: Environmental prediction interface with weather, climate and water

Keynote: Chemical weather forecasting: state-of-the art and future perspectives
Greg Carmichael

Current and Planned Activities of the Regional Sand and Dust Storm Warning Advisory and Assessment System Center for Northern Africa, Europe and Middle East
Emilio Cuevas

Recent development of the Asian Dust Aerosol Model 2 (ADAM 2)
Soon-Ung Park

Effects of dust haze on ambient air during winter months in Nigeria
Ifeanyi Nnodu

Progress of Shanghai WMO GURME Pilot Project
Fuhai Geng

Towards European Scale Air Quality Operational Services for GMES Atmosphere
Vincent-Henri Peuch

Global Atmosphere Watch: High quality observations are essential for atmospheric sciences
Jörg Klausen

10.30 – 11.00 Coffee break

Supporting Greenhouse Gas Management Strategies with Observations, Modeling and Reanalysis
James Butler

Long-range Transport of Air pollutants and Policy Making
Sonja Vidic

Emissions of NO_x and SO_x from Baltic shipping and estimates of their effects on air quality and eutrophication in the Baltic Sea
Tapani Stipa

Persistent Toxic Substances (PTS) in Ambient Air of the Russian Arctic
Alexey Konoplev

Air Pollution in the Densely Populated Regions of Uzbekistan
Khasan Imamdjanov

Impacts of Physical and Chemical Properties of a Storm from the Tropical vs. Middle Latitude Contrasts in Instability and Humidity of the Environment
Vlado Spiridonov

12.30 – 13.30 Lunch

13.30 Session V: Water: Prediction of flooding, oceans, and ice

Keynote: HyMeX: an experimental program dedicated to the hydrological cycle in Mediterranean
Jean-Pierre Chalon

The MAP D-PHASE Forecast Demonstration Project: Flash flood predictions through atmospheric and hydrological modeling
Saskia Willemse

Episodes of heavy precipitation in Tunisia: Flash floods of September 2009 in Redeyef
Mohamed Hajje

Moisture Observations by a dense GPS receiver network and its application to assimilation in the JMA Mesoscale Model
Ko Koizumi

A Coupled Atmosphere-Ocean-Ice System Modeling
Pierre Pellerin

15:00 – 15:30 Coffee break

15.30 Session VI: Visions for the future

Invited presentation: The changing environment and the next decade of numerical operational prediction systems
CAS President, Michel Beland

A Perspective from the CBS Technical Commission on the Status and Future of Operational Prediction
Bernard Strauss

Globalization of air pollution
Øystein Hov

The International Polar Year and implications for improving prediction of weather, climate, water and air quality.
David Carlson

Current plans and future activities of COST
Saskia Willemse for Sylvain Joffre

17.15 Summary session

Summary of conference findings
Open Discussion on future directions

18.00 Closure of Technical Conference