

# WGNE-31

## Pretoria, South Africa, 26-29 April 2016

### PRESENTATIONS

#### 26 April

WGNE mission and acronyms

WCRP matters and implications for WGNE

M. Rixen

CAS – WWRP work and implications for WGNE: Science for Service

Øystein Hov

Technical Commission for Atmospheric Science - World Weather Research Programme

Paolo Ruti

Global Atmosphere Watch (GAW) – opportunities for WGNE

Kobus Pienaar

SPARC Report

Quentin Errera

The WWRP Polar Prediction Project (2013-2022)

Thomas Jung

Update on GODAE Ocean View and its Coupled Prediction Task Team

Hal Ritchie

Improving ECMWF's IFS model

Nils Wedi

Recent developments in Numerical Methods

Michael Baldauf

#### 27 April

Deterministic (HRES) and ensemble (ENS) verification scores

Nils Wedi, Martin Janousek, Linus Magnusson, Thomas Haiden, Sinead Duffy

WGNE Intercomparison of Tropical Cyclone Track forecast, 2014

Junichi Ishida, Hitoshi Sato, Takahiro Ito, Masahiro Sawada and Munehiko Yamaguchi

Precipitation verification

François Bouyssel

Subjective evaluation of NWP operational models at Météo-France

C. Maglione, B. Roulet, F. Bouyssel

Using satellite simulators for cloud evaluation

Keith Williams

Brief Overview of CMIP6

Veronica Eyring, Jerry Meehl

WGNE Blue Book - status and proposed changes

Elena Astakhova

Simulating the radiative forcing effects of Antarctic stratospheric ozone on southern African climate variability (and some thoughts on the new CMIP6 model VRESM)

Francois Engelbrecht, Thando Ndarana, Yushi Morioka, Swadhin Behera, Marcus Thatcher, John McGregor, Mary-Jane Bopape, Johan Malherbe

Current developments in the INPE/CPTEC modeling system

Ariane Frassoni dos Santos

Research in atmospheric modelling in Russia

Elena Astakhova

JWGFVR highlights

Marion Mittermaier, Laurie Wilson

An update on CMIP(6), obs4MIPs and the WGCM/WGNE Diagnostics and Metrics Panel

Peter J. Gleckler

## 28 April

Report on the Drag Project

Ayrton Zadra

Subgrid orographic drag

Implementing the Cloud Layers Unified by Binormals (CLUBB) scheme in the Community Atmosphere Model (CAM) -CAM5.5/CESM2

Julio Bacmeister

Development of a new prognostic convection scheme for NWP and climate Arpege global model

J.M. Piriou, J.F. Gueremy (presented by François Bouyssel)

Ongoing work to improve convection in the UM

Keith Williams

Parameterization issues and related modeling challenges at the CMC

Ayrton Zadra

Working Group on Nowcasting and Mesoscale Research

Paul Joe, Jeanette Onvlee, Estelle deConing, Peter Steinle

Recent progresses in convective-scale and next generation global modeling at KMA

Dong-Joon Kim

What are the differences in physical parameterizations between MF models (NWP vs climate, global vs convective scale) ?

François Bouyssel

Recent progress in convective scale Arome NWP system and on-going research activities

P. Brousseau, P. Chambon, G. Faure, R. Honnert, A. Mary, N. Merlet, Y. Seity, B. Vié, E. Wattrelot  
(presented by F. Bouyssel)

Lessons learned from JMA global and regional model development

Junichi Ishida

GASS update

Jon Petch (presented by Keith Williams)

GEWEX Global Land/Atmosphere System Study (GLASS): Update at WGNE-31

Michael Ek, Aaron Boone

Evaluating aerosols impacts on Numerical Weather Prediction: 4th Report

Saulo Freitas

(presented by Ariane Frassoni dos Santos)

Simulations of a Convective Boundary Layer with a Dynamic Smagorinsky Scheme

Modelling the Greyzone Boundary Layers (GreyBLs)

M.M. Bopape, R.S. Plant and O. Coceal

Progress in seasonal forecasting in South Africa

Willem A. Landman

The SINTEX-F seasonal predictability and its applicability for southern Africa

Swadhin Behera, Takeshi Doi and Yushi Morioka

The role of mid and high latitude air-sea interactions in interannual to multiyear climate variations over southern Africa

Yushi Morioka, F. Engelbrecht, S. K. Behera

## 29 April

Current Issues and Challenges in Ensemble Forecasting

Junichi Ishida (JMA) and Carolyn Reynolds (NRL)

Recent activities related to EPS (operational aspects)

Junichi Ishida and Carolyn Reynolds

Unifying the NCEP Production Suite - Integrated coupled modelling approach at NCEP

Michael B. Ek

DAOS report for WGNE 2016

Tom Hamill

The Sub-seasonal to Seasonal (S2S) Prediction Project - "Bridging the gap between weather and climate"

Frédéric Vitart