WGNE

Activities of Working Group on Numerical Experimentation

Principal investigator

Michael Ek
michael.ek@noaa.gov

National Centres for Environmental Prediction, National Oceanic and Atmospheric Administration, Maryland, USA

Other contact

Francois Engelbrecht FEngelbrecht@csir.co.za

Areas of contribution

Modelling and forecasting

Summary

WGNE will support YOPP by encouraging modelling centres to participate in YOPP, and providing a forum to discuss results in the presence of model development and evaluation experts.

Description

The Working Groups on Numerical Experimentation (WGNE), jointly established by the WCRP Joint Scientific Committee (JSC) and the WMO Commission for Atmospheric Sciences (CAS), has the responsibility of fostering the development of atmospheric circulation models for use in weather, climate, water, and environmental prediction on all time scales and diagnosing and resolving shortcomings. WGNE promotes coordinated numerical experimentation for validating model results, observed atmospheric properties, exploring the natural and forced variability and predictability of the atmosphere, as well as studies aimed at refining numerical techniques, and the formulation of atmospheric physics processes. WGNE also monitors the advances
in data assimilation and analysis methods and is the focal point in the WCRP for encouraging and reviewing the reanalysis projects.

**Timeline**

2016-01-01 - 2030-12-25

**Regional emphasis**

Northern hemisphere: Yes  
Southern hemisphere: Yes

**Key project deliverables**

- Encouraging modelling centres to participate in YOPP.  
- Encouraging, and potentially proposing, model evaluation projects using data from YOPP.  
- Providing a forum to discuss results in the presence of model development and evaluation experts.  
- Providing a communication channel to disseminate results to the wider modelling community.

**Data management**

Contributing modelling centres will be responsible for archiving their own data, in agreements with the YOPP data strategy. Details need to be discussed with WGNE members.

**Is data provided to WMO Global Telecommunication System**

No