

Comments on the History of the Working Group on Numerical Experimentation

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Experience Relevant to WGNE

- 1974 – 1985 Member WGNE for GARP JOC under WMO/ICSU
- 1985 – 1994 Member WGNE for WCRP JSC/CAS under WMO/ICSU and CAS; Chairman 1989-1990
- 1994 – 2000 Chairman JSC for WCRP

Basic Background Reports

- 1950 Charney, Fjortoft, von Neumann: „Numerical integration of the barotropic vorticity equation“, *Tellus*, 2, 237-254
- 1956 Phillips: „The general circulation of the atmosphere: a numerical experiment“, *Q. J. R. Meteor. Soc.*, 82, 123-164

Selected Landmarks in the History of WGNE and Related Programs

- 1967 GARP (Global Atmospheric Research Programme) established by WMO (World Meteorological Organization)
- 1967 JOC (Joint Organizing Committee) established by WMO and ICSU to implement GARP
- 1967 WGNE (Working Group on Numerical Experimentation) established by JOC for GARP
- 1969 GARP Publication NO. 1: „An introduction to GARP“ published by JOC

1970 – 1974 Conduct of GARP Regional Experiments:

- GATE: GARP Atlantic Tropical Experiment
- MONEX: Monsoon Experiment
- ALPEX: Alpine Experiment
- AMEX: Air Mass Transformation Experiment

1974 Study Conference on Climate Models, organized by JOC in Stockholm

1975 Publication of "The Physical Basis of Climate and Climate Modelling", GARP Publication No. 16

1978 Study Conference on Climate Models, Geneva, organized by GARP WGNE JOC

- 1979 18th Session of WGNE for GARP JOC, Melbourne
- 1979 First World Climate Conference, Geneva
- 1980 WCRP (World Climate Research Programme) established by WMO/ICSU
- 1980 JSC (Joint Scientific Committee) established for WCRP
- 1980 First Session of WGNE for GARP/WCRP transition, Amsterdam

- 1985 First Session of WGNE, re-established for WCRP JSC and CAS, Boulder
- 1985 TOGA (Tropical Ocean and Global Atmosphere) established
- 1986 2nd Session of WGNE for WCRP JSC/CAS, Tokyo
- 1986 IGBP (International Geosphere-Biosphere Programme) established by ICSU

- 1987 3rd Session of WGNE for WCRP JSC/CAS, Lisbon
- 1988 IPCC (Intergovernmental Panel on Climate Change) established by WMO and UNEP
- 1988 GEWEX (Global Energy and Water Cycle Experiment) established as Core Project in WCRP
- 1989 5th Session of WGNE for WCRP JSC/CAS, Hamburg

- 1990 AMIP (Atmospheric Model Intercomparison Project) established by PCMDI and WGNE
- 1990 WOCE (World Ocean Circulation Experiment) established
- 1990 SGGCM (Steering Group on Global Climate Modelling) established
- 1992 SPARC (Stratospheric Processes and their Role in Climate) established as a Core Project in WCRP

- 1992 UNFCCC (United Nations Framework Convention on Climate Change) established
- 1992 PILPS (Project for Intercomparison of Land-Surface Parameterization Schemes) established
- 1992 IOC (International Oceanographic Commission) of UNESCO and SCOR (Scientific Committee on Ocean Research) of ICSU join WCRP as sponsors

- 1993 ACSYS (Arctic Climate System Study) established
- 1994 10th Session of WGNE for WCRP JSC/CAS, Tallahassee
- 1995 SAR (Second Assessment Report) issued by IPCC;
- „the balance of evidence suggests a discernible
human influence on global climate“
- 1995 CLIVAR (Climate Variability and Predictability) established
as a Core Project in WCRP

- 1996 WGCM (Working Group on Coupled Modelling)
established by CLIVAR and WGNE

- 1996 CMIP (Coupled Model Intercomparison Project)
established by WGCM

- 1997 WWRP (World Weather Research Programme)
established in cooperation with GEWEX

- 1997 13th Session of WGNE for WCRP JSC/CAS,
Washington, D. C.

- 2001 17th Session of WGNE for JSC/CAS, Offenbach
- 2002 CLIC (Climate and the Cryosphere) established as a Core Project in WCRP
- 2004 THORPEX (Observing System and Predictability Experiment) established as a WWRP Working Group
- 2004 20th Session of WGNE for WCRP JSC/CAS, Exeter
- 2005 COPES (Coordinated Observation and Prediction of the Earth System) established in WCRP

- 2007 3rd WGNE Workshop on Systematic Errors in Climate and NWP Models, San Francisco
- 2008 GAW (Global Atmosphere Watch) established in WWRP
- 2008 24th session of WGNE for WCRP JSC/CAS, Montreal
- 2009 CORDEX (Coordinated Regional Downscaling Experiment) established by WCRP
- 2009 GFCS (Global Framework for Climate Services) established at Third World Climate Conference, Geneva

2010 CMMP (Climate Model Metrics Panel) established by
WGNE/WGCM

2011 27th Session of WGNE JSC/CAS, Boulder

2014 29th Session of WGNE JSC/CAS, Melbourne

