

CLIVARNET

The Netherlands' contribution to CLIVAR

Summary

(Prepared for the CLIVAR Science Conference in 1998, updated February 2000)

In the Netherlands a national CLIVAR committee was established in 1997. The Dutch contribution to CLIVAR consists of ongoing work at a number of institutions and several projects funded under the Dutch National Research Programme on Global Air Pollution and Climate Change (NRP). In addition, the Netherlands Organization for Scientific Research (NWO) has made an initial allocation of Mf 4.5 for CLIVAR-related projects. This allocation was based on a document entitled: "CLIVARNET, Contours of a Dutch CLIVAR contribution", in which priorities for the Dutch CLIVAR contribution were identified. One of the elements was an envisaged strengthening of the national coherence, by enhancing collaborations between sea-going oceanographers and modellers, and between palaeoclimatologists and climate modellers. CLIVAR was presented in the Netherlands at a special meeting at the Royal Netherlands Academy of Arts and Sciences (KNAW), in December 1997. At the same time a call for proposals was issued. In the summer of 1998 the first projects were approved after international peer review. These projects are marked (+) in the list below. A second call for proposals was issued in 1999. This resulted in the approval of three additional projects (marked **). The progress of CLIVAR and CLIVARNET will be reviewed at a second scientific meeting at the KNAW on March 16 - 17, 2000.

A list of PI's and their projects is attached.

The Netherlands CLIVAR Committee, November 1998 & February 2000

Dr. Auke Bijlsma (Netherlands Organization for Scientific Research, NWO, secretary)

Dr. Bas van Geel (The Netherlands Centre for Geo-ecological Research, ICG)

Dr. Gerbrand Komen (Royal Netherlands Meteorological Institute, KNMI, chairman)

Prof. Jan de Leeuw (Netherlands Institute for Sea Research, NIOZ)

Prof. Cor Schuurmans (Institute for Marine and Atmospheric Research, IMAU)

Additional information: bijlsma@nwo.nl (secretary) or komen@knmi.nl (chairman)

CLIVARNET projects

Name [email] PI * Institute * Project

- H.M. van Aken [aken@nioz.nl] * NIOZ * 1. Climatic variability of the sea surface height and circulation in the northern North Atlantic Ocean observed with satellite altimetry; 2. CAMP: Clivarnet Atlantic Monitoring Programme

- G.J.H. Burgers [burgers@knmi] * KNMI * Advanced data-assimilation methods for ocean models and analysis of the tropical ocean with satellite observations
- H.A. Dijkstra [dijkstra@phys.uu.nl] * IMAU * A dynamical system analysis of the global ocean circulation.
- H. Dolman, H.A.R. de Bruin and B. Holtslag [Henk.deBruin@user.metair.wau.nl] * WAU * Land surface feedbacks and decadal climate variations on the Iberian Peninsula.
- S.D. Drijfhout [drijfhout@knmi.nl] * KNMI * Tracing the origin and formation of North Atlantic Deep Water in numerical models
- B. van Geel [vangeel@bio.uva.nl] * ICG * Palaeo evidence for solar forcing of climate change.
- + E. Jansma [ejans@archis.nl] * NCD, RING * Reconstruction of the natural variability of precipitation in the Netherlands and North Germany for the last 8000 years using ultra-long tree-ring chronologies of oak
- G. Können [konnen@knmi.nl] * KNMI * Reconstruction of past climate from historical and proxy records
- G.J. Komen [komen@knmi.nl] * KNMI * Air/sea interaction and the wave and upper-ocean response.
- R. Leemans [rik.leemans@rivm.nl] * RIVM * Improvement of the climate component of the IMAGE assessment model (with KNMI)
- + H.J. Lindeboom [hanl@nioz.nl] * NIOZ * The tree of the Sea: climate reconstructions on the basis of the bivalve *Arctica islandica*
- L.R.M. Maas [maas@nioz.nl] * NIOZ * SOMATICS: Symbolizing Ocean Mixing And Transport in Climate Studies
- + J. Oerlemans [j.oerlemans@phys.uu.nl] * IMAU * Climatic interpretation of glacier records by inverse modelling
- + J.D. Opsteegh [opsteegh@knmi.nl] * KNMI * Decadal climate variability related to the North-Atlantic Ocean
- + W.P.M. de Ruijter [w.p.m.deruijter@phys.uu.nl] * IMAU * Mixing of Agulhas Rings Experiment (MARE), jointly with NIOZ and KNMI : see also <http://kellia.nioz.nl/projects/mare/main.htm>
- + J.F. Vandenbergh/S.R. Troelstra [vanj@geo.vu.nl] * VU * Natural climate variability during the Late Glacial and late Holocene: comparison and integration of the marine and terrestrial record
- C.J.E. Schuurmans [c.j.e.schuurmans@phys.uu.nl] * IMAU * Variability of Atlantic storm tracks

- R. Tol [richard.tol@ivm.vu.nl] * IVM * Application of statistical methods to climate variability and climate change
- van Ulden [ulden@knmi.nl] * KNMI * Natural variability of the radiative forcing
- K. Wakker [[k.wakker@lr.tudelft](mailto:k.wakker@lr.tudelft.nl)] * DEOS * Satellite altimetry and applied physical oceanography
- S.L. Weber [weber@knmi.nl] * KNMI * Model/palaeo intercomparisons

New projects approved in February 2000:

- ** G.J.H. Burgers [[burgers@knmi](mailto:burgers@knmi.nl)] * KNMI * Analysis of ENSO-related variability in the equatorial Pacific in the 90s.
- ** E.A. Koster [e.koster@geog.uu.nl] * UU-Earth Sciences * Modern and historical climate-lake interactions recorded in remote Arctic lakes.
- ** H. Visscher, [h.visscher@bio.uu.nl] * UU-Pal&Pal * Coupling between atmospheric CO₂ and temperature during the last millennium.
- More information on CLIVARNET can be found on <http://www.knmi.nl/euroclivar/clivarnetc.html>.