

## Acronyms

3DVAR - Three-Dimensional Variational Data-Assimilation system

4DVAR - Four Dimensional Variational Data-Assimilation system

ACE - Aerosol Characterisation Experiment

ACE - Atmospheric Chemistry Explorer

ACIFORN - Acidification research on Douglas fir Forests in the Netherlands

ACW - Antarctic Circumpolar Wave

AGRS - Active GPS Reference System

ALW - Earth and Life Sciences section of NWO

AMSU - Advanced Microwave Sounding Unit

AOT - Aerosol Optical Thickness

ARM - Atmospheric Radiation Measurement program

ASGAMAGE - Air-Sea GAs exchange / MAGE project

ASPELEA - Assessment of Seismic Potential in European Large Earthquake Areas

ATSR - Along Track Scanning Radiometer

AutoDRM - Auto Data Request Manager

AVHRR - Advanced Very High Resolution Radiometer

AVIRIS - Airborne Visible and Infrared Imaging Spectrometer

BALTEX - Baltic Sea Experiment

BBC - BALTEX Bridge Cloud Campaign

BCRS - Netherlands Remote Sensing Board

BEM - Boundary Element Methods

BOREAS - Boreal Ecosystems Atmosphere Study

BP - Before Present

CAPRIX - Cabauw Profiler Intercomparison Experiment

CARL - Cloud Analysis from ground-based and airborne Radar and Lidar

CBS - Commission on Basic Systems

CCD - Charge Coupled Device

CCL - Commission for Climatology

CDC - Climate Data Centre

CDS - Cloud Detection System

CESAR - Cabauw Experimental Site for Atmospheric Research

CKO - Centre for Climate Research

CLARA'96 - Clouds and Radiation experiment in the Netherlands

CLARE - Cloud Lidar And Radar Experiment

CLIO - Coupled Large-Scale Ice Ocean Model

CLIVAR - Climate Variability and Predictability Research

CLIVARNET - Dutch contribution to CLIVAR

CLIWA-NET - BALTEX Cloud Liquid Water Network: CLIWA-NET

CLIWOC - Climate of the World's Oceans

CLOSAER - The effects of aerosol on closure of the regional short-wave radiation balance  
CloudSat - Spaceborn Cloud Radar  
CM-SAF - Satellite Application Facility on Climate Monitoring  
COACH - Co-operation on Oceanic, Atmospheric and climate Change studies  
COADS - Comprehensive Ocean Atmosphere Data Set  
COP6 - Sixth Conference of the Parties of the UNFCCC (The Hague, November 2000 and Bonn, July 2001)  
CORBA - Common Object Request Broker Architecture  
COST - European Co-operation in the field of Scientific and Technical Research  
COT - Cloud Optical Thickness  
CRU - Climate Research Unit  
CTBT - Comprehensive Test Ban Treaty  
CWI - Centre for Mathematics and Computer Science  
CWINDE - COST Wind Initiative for a Network Demonstration in Europe  
CWP - Cloud Water Path

DAK - Doubling - Adding KNMI  
DARE - Data Assimilation in Readiness for Envisat  
DIA - Deelen Infrasound Array  
DOAS - Differential Optical Absorption Spectroscopy  
DORAS - Development of an Ozone profile Retrieval Algorithm from atmospheric Spectra  
DU - Dobson Unit  
DUV - damaging UV  
DWD - German Meteorological Office

EarthCARE - Earth Clouds Aerosol Radiation Explorer  
EC - European Commission  
ECBILT - KNMI Intermediate-complexity Climate Model  
ECBILT IMAGE - Defining Interactions and Feedbacks between Land Cover and Climate to Apply in an Integrated Assessment Model  
ECC - Electrochemical cell  
ECHAM4 - Hamburg version (number 4) of the ECMWF model  
ECLAT - EU concerted action on Climate Change  
ECMWF - European Centre for Medium-Range Weather Forecasts  
ECN - Netherlands Energy Research Foundation  
EDUCE - European Database for Ultraviolet radiation Climatology and Evaluation  
EGS - European Geophysical Society  
EMIC - Earth System Model of Intermediate Complexity  
EMS - European Macroseismic Scale  
ENSO - El Niño Southern Oscillation  
EOF - Empirical Orthogonal Function  
EOS - Earth Observing System  
EPS - Ensemble Prediction System

ERA - ECMWF Re-Analysis  
ERA15 - 15 year ECMWF Re-Analysis (covering the period 1997-1993, finished in 1996)  
ERA40 - 40 year ECMWF Re-Analysis (covering the period 1958-2001, started in 2000)  
ERM - Earth Radiation Mission  
ERMAG - ESA Earth Radiation Mission Advisory Group  
ERS - Earth Remote Sensing  
ESA - European Space Agency  
ESAC - Earth Science Advisory Committee  
ET - Electrical Tomography  
EU - European Union  
EULINOCS - European Lightning Nitrogen Oxides Experiment  
EUMETNET - European Network of National Meteorological Services  
EUMETSAT - European Organisation for the Exploitation of Meteorological Satellites  
EUROCS - European project On Cloud Systems in climate models

FCCC - Framework Convention on Climate Change (of the United Nations)  
FDSN - Federation of Digital Seismograph Networks  
FMI - Finnish Meteorological Institute  
FRESCO - Fast Retrieval Scheme for Clouds from the Oxygen A-band  
FSW - KNMI-seismographstation Finsterwolde

GAW - Global Atmospheric Watch  
GCM - General Circulation Model  
GCOS - Global Climate Observing System  
GCSS - Gewex Cloud System Studies  
GEWEX - Global Energy and Water Cycle Experiment  
GFDL - Geophysical Fluid Dynamics Laboratory  
GIS - Geographic-Information System  
GKSS - Research Center Geesthacht  
GODIVA - GOME Data Interpolation Validation and Application  
GOFAP - GOME Fast Delivery and Value-added Products  
GOME - Global Ozone Monitoring Experiment  
GOOS - Global Ocean Observing System  
GPR - Ground Penetrating Radar  
GPS - Global Positioning System  
GSFC - Goddard Space Flight Center  
GUI - Graphical User Interface

HALOE - Halogen Occultation Experiment  
HEXOS - Humidity Exchange over Sea  
HGN - KNMI-seismographstation Heimansgroeve  
HIRDLS - High Resolution Dynamics Limb Sounder  
HIRLAM - High Resolution Limited Area Model

HISKLIM - Historical Climate  
HOPE - Hamburg Ocean Primitive Equation model

IDC - International Data Centre  
IDL - Interactive Data Language  
IGBP - International Geosphere Biosphere Programme  
IHE - International Institute for Infrastructural, Hydraulic and Environmental Engineering  
IMAU - Institute for Marine and Atmospheric Research Utrecht  
IMS - International Monitoring System  
INDOEX - Indian Ocean Experiment  
IPCC - Intergovernmental Panel on Climate Change  
IR - Infra Red  
IRMA-SPONGE - Integrated water management strategies for the Rhine and Meuse basins in a changing environment  
ISCCP - International Satellite Cloud Climatology Project  
ITCZ - Inter-Tropical Convergence Zone  
IWC - Ice Water Content  
IYW - Integrated Water Vapour

JHD - Joint Hypocenter Determination

KLAROS - KNMI Local implementation of Apollo Retrievals in an Operational System  
Klu - Royal Netherlands Airforce  
KNAW - Royal Netherlands Academy of Arts and Sciences  
KNMI - Royal Netherlands Meteorological Institute

LES - Large Eddy Simulation  
LIDAR - LIght Detection And Ranging  
LITFASS - Lindenberg Inhomogeneous Terrain Fluxes between Atmosphere and Surface: a long term study  
LODYC - Laboratoire d'Océanographie Dynamic et de Climatologie  
LUT - Look-up tables  
LWP - Liquid Water Path  
LWS - Liquid Water Sensor

MA-ECHAM - Middle-atmosphere version of ECHAM 4  
MA-ECHAM 4/CHEM - Middle Atmosphere European Centre – Hamburg Climate Model with Interactive Chemistry  
MARE - Mixing of Agulhas Rings Experiment  
 $M_b$  - Body-wave Magnitude  
MDS - Meteorological Service of Suriname  
MEREDIAN - Mediterranean-European Rapid Earthquake Data Information and Archiving Network  
MetClock - METEOSAT Cloud Detection and Characterisation KNMI

MICOM - Miami Isopycnic Co-ordinate Ocean Model  
M<sub>L</sub> - Local Magnitude  
MLS - Microwave Limb Sounder  
MODTRAN - Moderate Resolution Transmission Radiative Transfer Model  
MOM - Modular Ocean Model  
MPI Hamburg - Max Planck Institute for Meteorology, Hamburg  
MPI-Mainz - Max Planck Institute for Chemistry in Mainz  
MPN - Research Platform Meetpost Noordwijk  
M<sub>s</sub> - Surface-wave Magnitude  
MSG - METEOSAT Second Generation  
MSSA - Multivariate Singular Spectrum Analysis  
MST - Mesosphere Stratosphere Troposphere  
M<sub>w</sub> - Moment Magnitude

NADW - North Atlantic Deep Water  
NAO - North Atlantic Oscillation  
NASA - National Aeronautic and Space Administration  
NASDA - National Space Development Agency of Japan  
NCAR - National Centre for Atmospheric Research  
NCEP - National Centers for Environmental Prediction  
NDSC - Network for Detection of Stratospheric Change  
NILU - Norwegian Institute for Air Research  
NIOZ - Netherlands Institute for Sea Research  
NITG-TNO - Netherlands Institute of Applied Geosciences-TNO  
NIVR - Netherlands Institute for Aviation and Space Research  
NLR - National Aerospace Laboratory  
NOAA - National Oceanic and Atmospheric Administration  
NODC - National Oceanographic Data Committee  
NOP - National Research Programme on global air pollution and climate change  
NRP - National Research Programme on Global Air Pollution and Climate Change  
NRT - Near Real Time  
NWO - Netherlands Organisation for Scientific Research  
NWP - Numerical Weather Prediction

OASE - Ozone Application Simulator Explorer  
OCCAM - high resolution ocean general circulation model  
OCW - Ministry of Education, Culture and Science  
ODC - ORFEUS Data Centre  
OGCM - Ocean General Circulation Model  
OI - Optimum Interpolation  
OMI - Ozone Monitoring Instrument  
OPA - Océan Paralléllisé, an ocean general circulation model developed at LODYC  
ORB - Observatoire Royal de Belgique

ORFEUS - Observatories and Research Facilities for European Seismology  
OSAB - OMI Science Advisory Board  
OST - OMI Science Team  
OxComp - Reactive Oxygen Comparison

PA - Pressure Anemometer  
PAGES - Past Global Changes  
PALEOSIS - European project on Palaeoseismology  
PBF - Peel Boundary Fault  
PDF - Probability Distribution Function  
PE - Primitive Equations  
PI - Principal Investigator  
Picasso - Spaceborn Cloud/Aerosol Lidar  
PIDCAP - Pilot Study of Intense Data Collection and Analysis of Precipitation  
PMIP - Palaeo Modelling and Intercomparison Project  
PML - Plymouth Marine Laboratory  
POPSICLE - Production of Precipitation Scenarios for Impact Assessment of Climate Change in Europe  
PSC - Polar Stratospheric Clouds  
PSHA - Probabilistic Seismic Hazard Assessment  
PV - Potential Vorticity

QBO - Quasi-Biennial Oscillation

RACMO - Regional Atmospheric Climate Model  
RADCHIS - Research on Atmospheric Dynamics and Chemistry in Surinam  
RASS - Radio Acoustic Sounding System  
RIVM - National Institute for Public Health and the Environment  
RIZA - Institute for Inland Water Management and Waste Water Treatment  
RLD - Dutch Civil Aviation Authorities  
RRS - Royal Research Ship  
RVG - Roer Valley Graben

SAF - Satellite Application Facility  
SAMMOA - Spring to Autumn Measurements and Modelling of Ozone and Active species  
SASCIA - Studies of Assimilated SchiamaChy data  
SBSTA - Subsidiary Body for Scientific and Technological Advice  
SCA - Synergetic Cloud Algorithm  
SCIAMACHY - Scanning Imaging Absorption Spectrometer for Atmospheric Cartography  
SCIARALI - Development of a radiative transfer model for SchiamaChy limb measurements  
Sciavalig - SCIAMACHY Validation and Interpretation Group  
SCOR - Scientific Committee on Oceanographic Research  
SEED - Standard for the Exchange of Earthquake Data

SEVIRI - Spinning Enhanced Visible and Infrared Imager  
SHADOZ - Southern Hemisphere Additional Ozonesondes  
SHDOM - Spherical Harmonics Discrete Ordinate Method  
SINTEX - Scale Interactions Experiments  
SIPS - Science Investigator Processing System  
SMI - Swedish Meteorological Office  
SODA - Studies of Ozone Distributions based on Assimilated satellite measurements  
SOLSPA - Solar and Space Weather Euroconference  
SPARC - Stratospheric Processes And their Role in Climate  
SPYDER - Stands for a system to collect and exchange waveform data from globally distributed broadband seismic stations  
SRON - Space Research Organisation Netherlands  
SSAG - SCIAMACHY Science Advisory Group  
SSL - Seismological Software Library  
STACCATO - Influence of Stratosphere Exchange in a Changing Climate on Atmospheric Transport and Oxidation Capacity  
STROPDAS - Satellite Remote Sensing for Ozone Prediction with Data Assimilation  
SUVDAMA - Scientific Ultraviolet Data Management  
SWURVE - Sustainable Water: Uncertainty, Risk and Vulnerability in Europe  
SZA - Solar Zenith Angle

TAR - Third Assessment Report  
TEBEX - Tropospheric Energy Budget Experiment  
TEPS - Targeted Ensemble Prediction System  
TES - Tropospheric Emission Spectrometer  
TNO - Netherlands Organisation for Applied Scientific Research  
TOGA-COARE - Tropical Ocean Global Atmosphere - Coupled Ocean Atmosphere Response Experiment  
TOMS-EP - Total Ozone Mapping Spectrometer instrument on board the Earth Probe Satellite  
TPD - Institute for Applied Physics of TNO  
TRACAS - Transport of Chemical Species Across the Subtropical Tropopause  
TRACMASS - Tracing the Water Masses of the North Atlantic and the Mediterranean  
TRADEOFF - Aircraft emissions: contribution of different climate components to changes in radiative forcing  
TSR - Along Track Scanning Radiometer

UFA - Upper Tropospheric Formation of Aerosol  
UK - United Kingdom  
ULFV - Ultra-Low Frequency Variability  
UNEP - United Nations Environmental Programme  
UNESCO - United Nations Educational, Scientific and Cultural Organisation  
UNT - University of Newcastle uponTyne

USA - United States of America

UV - Ultra Violet

UvU - University of Utrecht

VCP - Voluntary Co-operation Programme

VSP - Vertical Seismic Profiling

v&w - Ministry of Transport, Public Works and Water Management

WBL - Wave Boundary-layer

WCRP - World Climate Research Programme

WF - Wave Follower

WIT - KNMI-seismographstation Witteveen

WMO - World Meteorological Organisation

WOCE - World Ocean Circulation Experiment

WOUDC - World Ozone and UV Data Centre

WRINCLE - Water Resources: the Influence of Climate Change in Europe

WTS - KNMI-seismographstation Winterswijk

WTSB - KNMI-seismographstation Winterswijk-B

ZLV - borehole seismic station Zuidlaarderveen