
Acronyms

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| AAI | Absorbing Aerosol Index |
| ADAGUC | Atmospheric Data Access for the Geospatial User Community |
| ADM | Atmospheric Dynamics Mission |
| AEM | Assimilation Ensemble Method |
| AOT | Aerosol Optical Thickness |
| AR ₄ | IPCC Fourth Assessment Report |
| ArcGIS | Family name for ESRI GIS software products |
| ARM | Atmospheric Radiation Measurement Program (US governmental programme) |
| ASCAT | Advanced Scatterometer |
| BALTEX | Baltic Sea Experiment |
| BBC | BALTEX Bridge Campaign |
| BOMEX | Barbados Oceanographic and Meteorological Experiment |
| BSIK-KvR | Besluit Subsidies Investerings Kennisinfrastructuur – Klimaat voor Ruimte |
| BSRN | Baseline Surface Radiation Network |
| BSS | Brier Skill Score |
| BWER | Bound Weak Echo Region |
| CAPE | Convective Available Potential Energy |
| CCSP | Climate Changes Spatial Planning |
| CESAR | Cabauw Experimental Site for Atmospheric Research |
| CHIMERE | Chemical Transport Model developed at the Institut Pierre Simon Laplace, France |
| CLIWOC | Climatological Database for the World's Oceans (EU project) |
| CMOD ₅ | radar C-band GMF, version 5 |
| COST | European Cooperation in the field of Scientific and Technical Research |
| DBN | Seismic Station De Bilt |
| DOAS | Differential Optical Absorption Spectroscopy |
| DU | Dobson Unit |
| DWL | Doppler Wind Lidar |
| ECHAM ₅ | European Centre Hamburg (atmosphere model of the Max-Planck-Institute for Meteorology in Hamburg, version 5) |
| ECMWF | European Centre for Medium-Range Weather Forecasts |
| ED Eddy | Diffusivity |
| EDCG | Eddy Diffusivity Counter Gradient |
| EDGAR | Emission Database for Global Atmospheric Research |
| EDMF | Eddy Diffusivity Mass Flux |
| E-GVAP | EUMETNET GPS Water Vapour programme |
| EMEP | cooperative programme for monitoring and evaluation of long-range transmission of air pollutants in Europe |
| ENVISAT | Environmental Satellite |
| EPA | Environmental Protection Agency |
| ERS | European Remote-sensing Satellite |
| ESA | European Space Agency |
| ESRI | Environmental Systems Research Institute, Inc. |
| ESRL | Earth System Research Laboratory |
| ESSENCE | Ensemble Simulations of Extreme Weather Events under Nonlinear Climate Change |
| ETHMEG | Eidgenössische Technische Hochschule Model Evaluation Global Database |
| EU | European Union |
| EUMETNET | European Meteorological Network (cooperative network of meteorological services) |
| EUMETSAT | European Organisation for the Exploitation of Meteorological Satellites |
| FRESCO | Fast Retrieval Scheme for Clouds from the O ₂ A band |

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| FT | Fast Track |
| GCM | Global Climate Model |
| GCOS | Global Climate Observing System |
| GEV | Generalized Extreme Value |
| GFED | Global Fire Emissions Database |
| GHG | Greenhouse Gas |
| GIS | Geographical Information System |
| GMD | Global Monitoring Division |
| GMES | Global Monitoring for Environment and Security (EU programme) |
| GMF | Geophysical Model Function |
| GNSS | Global Navigation Satellite System |
| GOES | Geostationary Operational Environmental Satellite |
| GOME | Global Ozone Monitoring Experiment |
| GOS | Global Observing System |
| GPS | Global Positioning System |
| GSN | Global Seismographic Network |
| HadCRUT3 | Hadley Centre - Climate Research Unit Temperature data set 3 |
| HARMONIE | Hirlam - Aladin Research on Mesoscale Modelling for Operational NWP in Euromed |
| HC | Hydrocarbons |
| HDF | Hierarchical Data Format |
| HFS | Hirlam Forecasting System |
| HGN | Seismic Station Heimansgroeve |
| HIRLAM | High Resolution Limited Area Model |
| HISKLIM | Historical Climate, KNMI programme on data rescue, digitising and series homogenisation |
| HLOS | Horizontal Line of Sight |
| HYMN | Hydrogen Methane and Nitrous oxide: Trend variability, budgets and interactions with the biosphere (EU project) |
| HZS | Horizontal wind shear from Doppler radar |
| IMAU | Institute for Marine and Atmospheric Research Utrecht, the Netherlands |
| INSPIRE | Infrastructure for Spatial Information in Europe (EU project) |
| IPC | International Pyrheliometer Comparison |
| IPCC | Intergovernmental Panel on Climate Change |
| IPT | Integrated Profiling Technique |
| IR | Infrared |
| ISA | International Standard Atmosphere (recommended by WMO) |
| ISCCP | International Satellite Cloud Climatology Project |
| ISO | International Organization for Standardization |
| ITCZ | Inter-Tropical Convergence Zone |
| KML | Keyhole Markup Language |
| KNMI | Koninklijk Nederlands Meteorologisch Instituut (Royal Netherlands Meteorological Institute) |
| KODAC | KNMI Operationeel Data Centre |
| KOUW | Kansverwachtingen voor onweer ten behoeve van uitgifte weeralarm (Probabilistic forecasts of thunderstorms for the purpose of issuing a weather alarm) |
| LES | Large Eddy Simulation |
| LIDAR | Light Detection And Ranging |
| LOS | Line of Sight |
| LWC | Liquid Water Content |
| MESOMOD | Mesoscale Model Development |
| MesoNH | Mesoscale Non Hydrostatic |
| METEOSAT | EUMETSAT Geostationary Meteorological Satellite |
| MetOp | Meteorological Operational Polar Orbiting Satellite |
| MetOp-A | First (A) EUMETSAT MetOp |
| MLH | Mixing Layer Height |
| MOC | Meridional Overturning Circulation |

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| MODIS | Moderate-resolution Imaging Spectrometer |
| MOS | Model Output Statistics |
| MPI-OM | Max-Planck-Institute - Ocean Model |
| MSG | Meteosat Second Generation |
| NARS | Network of Autonomously Recording Seismographs |
| NASA | National Aeronautics and Space Administration (US) |
| NCAR | National Center for Atmospheric Research (US) |
| NCC | Normalised Correlation Coefficient |
| NCEP | National Centers for Environmental Prediction |
| NetCDF-COARDS | Network Common Data Format, Cooperative Ocean/Atmosphere Research Data Service |
| NetCDF-CF | Network Common Data Format, Climate and Forecasting Data |
| NETPOS | Netherlands Positioning Service |
| NHNM | New High Noise Model |
| NLNM | New Low Noise Model |
| NOAA | National Oceanic and Atmospheric Administration |
| NWP | Numerical Weather Prediction |
| OGC | Open Geospatial Consortium |
| OMI | Ozone Monitoring Instrument |
| OPERA | Operational Programme on the Exchange of Radar Data (EU project) |
| OSSE | Observing System Simulation Experiment |
| PBL | Planetary Boundary Layer |
| PCMDI | Program for Climate Model Diagnosis and Intercomparison |
| PMSL | Pressure reduced to Mean Sea Level |
| ppb | Parts per Billion |
| ppbv | Parts per Billion by Volume |
| PRF | Pulse Repetition Frequency |
| PROMOTE | Protocol Monitoring for the GMES Service Element Atmosphere |
| QC | Quality Control |
| QUANTIFY | Quantifying the Climate Impact of Global and European Transport Systems |
| QuikScat | NASA SeaWinds Scatterometer Mission |
| RACMO | Regional Atmospheric Climate Model |
| RCM | Regional Climate Model |
| RDS | Radiosonde |
| RGI | Space for Geo-Information Programme |
| RICO | Rain In Cumulus over the Ocean Experiment |
| RMS | Root Mean Square |
| RNLAF | Royal Netherlands Air Force |
| SAF | Satellite Application Facility (EUMETSAT programme) |
| SAFIR | Surveillance et Alerte Foudre par Interférométrie Radioélectrique (lightning detection network) |
| SARA | Stichting Academisch Rekencentrum Amsterdam |
| SCIAMACHY | Scanning Imaging Absorption Spectrometer for Atmospheric Chartography |
| SCM | Single Column Model |
| SDRV | Standard Deviation of Radial Velocity |
| SDSIM | Slant Delay Simulation |
| SLR | Sea Level Rise |
| SNR | Signal-to-Noise Ratio |
| SOA | Service Oriented Architecture |
| SODAR | Sound Detection and Ranging |
| SOSE | Sensitivity Observing System Experiment |
| SPM | Summary for Policy Makers |
| SRES | IPCC Special Report on Emission Scenarios |
| SRON | Netherlands Institute for space Research |
| SSE | System Simulation Experiment |
| SST | Sea Surface Temperature |

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| Sv | Sverdrup |
| TEMIS | Tropospheric Emission Monitoring Internet Service |
| Tg | Teragram (10^{12} gram) |
| THC | ThermoHaline Circulation |
| THORPEX | The Observing System Research and Predictability Experiment |
| TM ₃ | Tracer Model version 3 |
| TM ₄ | Tracer Model version 4 |
| UK | United Kingdom |
| US | United States |
| USA | United States of America |
| USGS | United States Geological Survey |
| UTC | Universal Time, Coordinated |
| UV | Ultraviolet |
| VAAC | Volcanic Ash Advisory Center |
| VAD | Velocity Azimuth Display |
| VEBSN | Virtual European Broadband Seismograph Network |
| VMR | Volume Mixing Ratio |
| VVP | Volume Velocity Processing |
| W ₃ C | World Wide Web Consortium |
| WCRP | World Climate Research Programme |
| WIS | WMO Information System |
| WIT | Seismic Station Witteveen |
| WMO | World Meteorological Organization |
| WRR | World Radiometric Reference |
| WRWP | Weather Radar Wind Profiles |
| WTSB | Seismic Station Winterswijk |
| WUR | Wageningen University and Researchcentre |
| WVC | Wind Vector Cell |
| ZHD | Zenith Hydrostatic Delay |
| ZTD | Zenith Total Delay |
| ZWD | Zenith Wet Delay |