

## Global Change Master Directory (GCMD) Instrument Keywords

Short Name > Long Name

1DP > 1D Particles Probe  
 2DC > 2D Cloud Probe  
 3DA > 3D Plasma Analyzer  
 3DP > 3-D Plasma and Energetic Particle Investigation (WIND)  
 AA > Atomic Absorption Spectrometer  
 AAS > Atomic Absorption Spectrophotometry  
 AATSR > Advanced Along-Track Scanning Radiometer  
 ACATS > Airborne Chromatograph for Atmospheric Trace Species  
 ACCELEROGRAPHS  
 ACCELEROMETERS  
 ACE-FTS > Fourier Transform Spectrometer  
 ACOUSTIC RADAR  
 ACOUSTIC RECEIVERS  
 ACOUSTIC SOUNDERS  
 ACOUSTIC TAGS  
 ACRIM > Active Cavity Radiometer Irradiance Monitor  
 ACRIM II > Active Cavity Radiometer Irradiance Monitor II  
 ACRIM III > Active Cavity Radiometer Irradiance Monitor III  
 ACS > Advanced Stellar Compass 2 (Boom)  
 ACTINOMETER > Radiation Thermocouple Actinometer  
 ADA > Atmospheric Density Accelerometer  
 ADCP > Acoustic Doppler Current Profiler  
 A-DCS > Advanced Data Collection System  
 ADG > Acoustic Depth Gauge  
 ADRAD > Texas Aggie Doppler Radar  
 ADS > Automated DNA Sequencer  
 AEM > Airborne Electromagnetic Profiler  
 AEPI > Atmospheric Emissions Photometric Imaging  
 AERI > Atmospheric Emitted Radiance Interferometer  
 AEROSOL COLLECTORS  
 AEROSOL MONITOR  
 AEROSOL/CLOUD PARTICLE SIZER  
 AEROVANES  
 AERS > Atmospheric/Emitted Radiation Sensor  
 AES > Atmospheric Emission Spectrometer  
 AETHAELOMETER  
 AGASSIZ TRAWL  
 AHF > AIRBORNE HEIGHT FINDER  
 AIA-SDO > Atmospheric Imaging Assembly on Solar Dynamics Observatory  
 AIMR > Airborne Imaging Microwave Radiometer  
 AIR PERMEAMETERS  
 AIRBORNE LASER SCANNER  
 AIRBORNE TRACKING SUNPHOTOMETER  
 AIRGLOW SENSOR  
 AIRGLOW/AURORA IMAGER  
 AIRGUN ARRAYS  
 AIRMISR > Airborne Multi-angle Imaging SpectroRadiometer  
 AIRS > Atmospheric Infrared Sounder  
 AIRSAR > Airborne Synthetic Aperture Radar  
 AIS > Arizona Imager Spectrograph  
 ALAE > Atmospheric Lyman-Alpha Emissions



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 NASA/Global Change Master Directory (GCMD) Earth Science Keywords. Version 6.0.0.0

ALI > Advanced Land Imager  
 ALIAS > Airborne Laser Infrared Absorption Spectrometer  
**ALPHA-SPECTROMETERS**  
 ALPS > Airborne Laser Polarization Sensor  
 ALT (SEASAT 1) > SEASAT 1 Radar Altimeter  
 ALT (TOPEX) > TOPEX Radar Altimeter  
**ALTIMETERS**  
 ALTUS DATA COLLECTION SYSTEM  
 AMI > Active Microwave Instrument  
 AMMR > Airborne Multichannel Microwave Radiometer  
 AMMS > Advanced Microwave Moisture Sounder  
 AMPR > Advanced Microwave Precipitation Radiometer  
 AMPTE/IRM MAGNETOMETER > AMPTE/IRM Three-axis Fluxgate Magnetometer  
 AMR > Advanced Microwave Radiometer  
 AMS > ACCELERATOR MASS SPECTROMETERS  
 AMSR > Advanced Microwave Scanning Radiometer  
 AMSR-E > Advanced Microwave Scanning Radiometer-EOS  
 AMSU-A > Advanced Microwave Sounding Unit-A  
 AMSU-B > ADVANCED MICROWAVE SOUNDING UNIT B (AMSU-B)  
**ANEMOMETERS**  
 ANEROID PRESSURE SENSOR  
 AOCl > Airborne Ocean Color Imager  
 AOLFL > Airborne Oceanographic Lidar Fluorosensor  
 AP > Auroral Photometer (SNOE)  
 APMS > Ames Particle Measurement System  
 APS > Aerodynamic Particle Sizer  
 APS > Air Pressure Sensor  
 APS GLORY > AEROSOL Polarimetry SENSOR  
 ARGOS > ARGOS Data Collection and Position Location System  
 ARGUS > Two-Channel Atmospheric Tracer Instrument  
 ARMAR > Airborne Rain Mapping Radar  
 ARP > Acoustic Recording Package  
 ASAR > Advanced Synthetic Aperture Radar  
 ASAS > Advanced Solid-state Array Spectroradiometer  
 ASC > All-Sky Camera  
 ASCAT  
 ASPECT > AIRBORNE SPECTRAL IMAGERY OF ENVIRONMENTAL CONTAMINANTS  
**TECHNOLOGY**  
 ASPOC > Active Spacecraft Potential Control Experiment  
 ASTER > Advanced Spaceborne Thermal Emission and Reflection Radiometer  
 ASUR > Airborne Submillimeter Radiometer  
 ATHOS > Airborne Tropospheric Hydroxides Sensor  
 ATLAS > Airborne Tunable Laser Absorption Spectrometer  
 ATM > Airborne Topographic Mapper  
 ATMOS > Atmospheric Trace Molecule Spectroscopy  
 ATMS > Advanced Technology Microwave Sounder  
 ATOVS > ADVANCED TIROS-N OPERATIONAL VERTICAL SOUNDER (ATOVS)  
 ATSR > Along Track Scanning Radiometer and Microwave Sounder  
 ATSR-2 > Along-Track Scanning Radiometer 2  
**AUTOANALYZER**  
 AVAPS > Airborne Vertical Atmosphere Profiling Systems  
 AVHRR > Advanced Very High Resolution Radiometer  
 AVHRR-2 > Advanced Very High Resolution Radiometer-2  
 AVHRR-3 > Advanced Very High Resolution Radiometer-3  
 AVIRIS > Airborne Visible and Infrared Imaging Spectrometer  
 AVNIR > Advanced Visible and Near-Infrared Radiometer



AVNIR-2 > Advanced Visible and Near-Infrared Radiometer Type 2  
 AWIFS > Advanced Wide Field Sensor  
 AWIN > Automatic Weigh and Identification Nest-System  
 AWQT > Apparatus for Water Quality Test  
 AWS > Automated Weather System  
 BALANCE  
 BAROMETERS  
 BATHYPHOTOMETER  
 BATHYTHERMOGRAPHS  
 BATSE > Burst And Transient Source Experiment  
 BBHSR > Broad Spectral Bandpass Hemispherical Solar Radiometer  
 BBSS > Balloon-Borne Sounding System  
 BCS > Bragg Crystal Spectrometer  
 BEDLOAD SENSORS  
 BENTHOPELAGIC NET  
 BENTHOPELAGIC TRAWL  
 BGO > Bismuth Germanate Scintillator  
 BIMS > Bennett Ion-Mass Spectrometer  
 BINOCULAR > BINOCULAR  
 BIONESS > Bedford Institute of Oceanography Net Environmental Sampling System  
 BLACKJACK > Global Positioning System  
 BLIP > Boundary Layer Instrument Package  
 BOLOMETERS  
 BONGO NETS  
 BOPS > Bio Optical Profiling System  
 BOTTOM PRESSURE GAUGES  
 BOTTOM TRAWL  
 BROADBEAM RIOMETERS  
 BRTS > Background Radiometric Temperature Sensors  
 BSR > Broadband Solar Radiometer  
 BUV > Backscatter Ultraviolet  
 C/P > Coronagraph/Polarimeter  
 CALIOP > Cloud-Aerosol Lidar with Orthogonal Polarization  
 CAMERAS  
 CAMMICE > Charge And Mass Ion Composition Experiment  
 CAMRA > CWVC Chilbolton Advanced Meteorological Radar  
 CAPAC > Cloud and Aerosol Particle Characterization  
 CAPS > Cloud, Aerosol, Precipitation Spectrometer  
 CARBON ANALYZERS  
 CASI > Compact Airborne Spectrographic Imager  
 CBERS  
 CC GLORY > Cloud Camera on GLORY  
 CCD IMAGER  
 CCD LINEAR ARRAY  
 CDE > AIM Cosmic Dust Experiment  
 CDS > Coronal Diagnostics Spectrometer  
 CEDAR IMAGER  
 CEILOMETERS  
 CELIAS > Charge, Element, and Isotope Analysis System  
 CEP > Cylindrical Electrostatic Probe  
 CEPPAD > Comprehensive Energetic Particle Pitch Angle Distribution  
 CERES > Clouds and Earth's Radiant Energy System  
 CERES SCANNER > Clouds and the Earth's Radiant Energy System Scanner  
 CERES-FM1 > Clouds and the Earth's Radiant Energy System - Flight Model 1  
 CERES-FM2 > Clouds and the Earth's Radiant Energy System - Flight Model 2  
 CERES-FM3 > Clouds and the Earth's Radiant Energy System - Flight Model 3



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 NASA/Global Change Master Directory (GCMD) Earth Science Keywords. Version 6.0.0.0

CERES-FM4 > Clouds and the Earth's Radiant Energy System - Flight Model 4  
 CERES-PFM > Clouds and the Earth's Radiant Energy System - Prototype Flight Model  
 CFDC > Continuous Flow Diffusion Chamber  
 CHAMP-BLACKJACK  
 CHEMILUMINESCENCE  
 CHN ANALYZERS > Carbon, Hydrogen, Nitrogen Analyzers  
 CIMS > Chemical Ionization Mass Spectrometer  
 CIN > Cloud Integrating Nephelometer  
 CINDI > COUPLED ION-NEUTRAL DYNAMICS INVESTIGATION  
 CIPS > Cloud Imaging and Particle Size  
 CIS > Cluster Ion Spectrometry Experiment  
 CLAES > Cryogenic Limb Array Etalon Spectrometer  
 CLASS > C-LORAN Atmospheric Sounding System  
 CLINOMETERS  
 CLOCKS  
 CLOUD LIQUID WATER PROBE  
 CLOUD TOP SPECTROMETER  
 CLOUDSAT-CPR > CLOUDSAT CLOUD PROFILING RADAR  
 CLS > Cloud Lidar System  
 CMT > China Mapping Telescope  
 CNC > Condensation Nuclei Counter  
 CO2 ANALYZERS  
 CO2NDIR > Carbon Dioxide Nondispersive Infrared Analyzer  
 COBAN > COBAN Multi-Band Camera  
 COLORIMETERS  
 COMPASSES  
 CONDUCTIVITY METERS  
 CORING DEVICES  
 CORONAGRAPHS  
 COSPEC > Correlation Spectrometer  
 COSPIN > Cosmic and Solar Particle Investigation (Ulysses)  
 COSSIR > Conical Scanning Sub-mm wave Imaging Radiometer  
 COSTEP > Comprehensive Suprathermal and Energetic Particle Analyzer  
 COULOMETERS  
 CPA > Charged Particle Analyzer  
 CPC > Cloud Particle Counter  
 CPFM > Composition and Photodissociative Flux Measurement  
 CPI > Cloud Particle Imager  
 CPI-G > Comprehensive Plasma Investigation-Geotail  
 CPL > Cloud Physics Lidar  
 CPME > Charged Particle Measurement Experiment (IMP-8)  
 CPR > Continuous Plankton Recorder  
 CRIMSS > Cross-track Infrared and Advanced Technology Microwave Sounders  
 CRIS > Cosmic Ray Isotope Spectrometer  
 CRIS-NPOESS > Cross-track Infrared Sounder  
 CRNC > Cosmic Ray Nuclear Composition Experiment (IMP-8)  
 CRS > Cloud Radar System  
 CRWVA > Combined Recording Wind Vane Anemograph  
 C-SAR > C-Band Synthetic Aperture Radar  
 C-SCAT > C-Band Scatterometer  
 CSR > Compressive Strength Recorder  
 C-STAR > Conically-Scanning Two-look Airborne Radiometer  
 CTD > Conductivity, Temperature, Depth  
 CUFES > Continuous Underway Fish Egg Sampling System  
 CURRENT METERS  
 CVI > Counterflow Virtual Impactor



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CXRI > Coded Mask X-ray Imager  
 CZCS > Coastal Zone Color Scanner  
 DADS > DC-8 DATA ACQUISITION AND DISTRIBUTION SYSTEM  
 DAEDALUS TMS > Daedalus Thematic Mapper Simulator  
 DC8 DROPSOURCES  
 DEMERSAL TRAWL  
 DENDROMETERS  
 DENSIOMETERS  
 DEWPOINT HYDROMETERS  
 DFS-V48 > DFS-V 48 Channel Seismograph Attached to Seismic Geophones  
 DFS-V60 > DFS-V 60 Channel Seismograph Attached to Seismic Geophones  
 DIAL > Differential Absorption Lidar  
 DIDM > Planar Langmuir Probe  
 DIELECTRIC PROBE  
 DIFFERENTIAL MOBILITY ANALYZERS  
 DIFLUX MAGNETOMETERS  
 DIGISONDES  
 DIGITIZER  
 DISDROMETERS  
 DMR > GPS Bistatic Radar Delay Mapping Receiver  
 DOAS > Differential Optical Absorption Spectrometers  
 DOBSON SPECTROPHOTOMETERS  
 DOPPLER BEACONS  
 DOPPLER RADAR  
 DOPS > Dual Optical Pulse Sensor  
 DORIS > Doppler Orbitography and Radiopositioning Integrated by Satellite  
 DORIS GROUND STATION BEACON  
 DREDGING DEVICES  
 DRIFTING BUOYS  
 DROPSOURCES  
 DROPWINDSONDES  
 DRY BULB THERMOMETERS  
 DRY DEPOSITION COLLECTORS  
 DTG > Differential Thermogravimeter  
 DUST > Ulysses Cosmic Dust Experiment  
 DWP > Digital Wave Processing Experiment  
 EB SPECTROMETER > Ebert-Fastie Spectrometer  
 ECHO SOUNDERS  
 EDAX > Energy-Dispersive Analysis of X-Ray  
 EDDY CORRELATION DEVICES  
 EDI > Electron Drift Instrument (CLUSTER-II)  
 EDI-E > Electron Drift Instrument (EQUATOR-S)  
 EDOP > ER2-Doppler Radar  
 EDXA > Energy Dispersive X-Ray Analyzer  
 EFD > Electric Fields Detector (Geotail)  
 EFW > Electric Field and Wave Experiment  
 EGC > Electron Gas Chromatograph  
 EGG > Electrostatic Gravity Gradiometer  
 EGS > EUV Grating Spectrograph  
 EHAD > ER-2 High Altitude Dropsonde  
 EIS > EUV IMAGING SPECTROMETER (HINODE)  
 EIT > Extreme Ultraviolet Imaging Telescope  
 ELASTIC BACKSCATTER LIDAR  
 ELDORA > Electra Doppler Radar  
 ELECTRIC FIELD MILL  
 ELECTROFISHING



ELECTROMAGNETIC DIRECTION METER  
 ELECTRON MICROPROBES  
 ELECTRONATORS  
 ELECTROSTATIC ANALYZERS  
 EPAC > Energetic Particles Composition Instrument (Ulysses)  
 EPACT > Energetic Particles: Acceleration, Composition and Transport (WIND)  
 EPAM > Electron, Proton, and Alpha Monitor  
 EPE > Energetic Particle Experiment (IMP-8)  
 EPI > Energy Particle Analyzer  
 EPIC > Energetic Particle and Ion Composition (Geotail)  
 EPSONDE  
 EQUILIBRATORS  
 ERB > Earth Radiation Budget  
 ERBE > Earth Radiation Budget Experiment  
 ERB-SCANNER  
 ERNE > Energetic and Relativistic Nuclei and Electron  
 ERS WIND SCATTEROMETER  
 ESMR > Electronic Scanning Microwave Radiometer  
 ESTAR > Electronically Scanned Thinned Array Radiometer  
 ESUM > Extreme Solar UV Monitor  
 ETM+ > Enhanced Thematic Mapper Plus  
 EUV SPECTROMETER > Extreme UV Spectrometer  
 EUVS > Solar Extreme Ultraviolet Spectrophotometer  
 EVE-SDO > Extreme ultraviolet Variability Experiment on Solar Dynamics Observatory  
 FAN-ASPIRATED RADIATION SHIELD  
 FCAS > Focused Cavity Aerosol Spectrometer  
 FCAS II > Focused Cavity Aerosol Spectrometer II  
 FGM > CLUSTER-II Fluxgate Monitor  
 FGM > Fluxgate Magnetometer  
 FIA > FLOW INJECTION ANALYSIS  
 FIELD SCOPE > FIELD SCOPE  
 FILTERABLE DEPOSIT JAR SAMPLER  
 FIRSC > Far-Infrared Sensor for Cirrus  
 FISH NETS  
 FLAME-IONIZATION DETECTOR >  
 FLASKS  
 FLOW CYTOMETRY  
 FLUORESCENCE MICROSCOPY  
 FLUORESCENCE SPECTROSCOPY  
 FLUOROMETERS  
 FLUXGATE MAGNETOMETERS  
 FMCWR > Frequency Modulated Continuous Wave Radar  
 FOURIER TRANSFORM SPECTROMETERS  
 FPH > Lyman-Alpha Total Water  
 FPI > Fabry-Perot Interferometer  
 FPS > Fabray-Perot Spectrometer  
 FRRF > Fast Repetition Rate Fluorometer  
 FSI > Filter Sampling Instrument  
 FSSP > Forward Scattering Spectrometer Probe  
 FTIR SPECTROMETER > Fourier Transform Infrared Spectrometer  
 FUV > Far Ultraviolet Imager (IMAGE)  
 GAMMA RADIATION DETECTOR  
 GAMMA RAY DETECTOR (SSB)  
 GAMMA RAY SPECTROMETERS  
 GAS CHROMATOGRAPHS  
 GAS CORRELATION FILTERS



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**GAS SENSORS**

GBMR &gt; Ground Based Passive Microwave Radiometer

GC-MS &gt; Gas Chromatograph/Mass Spectrometry

GEK &gt; Geomagnetic Electrokinetographs

**GEOPHONES**

GEOSAR &gt; Geographic Synthetic Aperture Radar

GERB &gt; Geostationary Earth Radiation Budget

**GERDIEN CONDUCTIVITY PROBE**

GFC RADIOMETER &gt; Gas Filter Correlated Radiometer

GFE-3R DOSIMETER &gt; Radiation Dosimeter (SSJ\*)

**GILLNETS**

GLAS &gt; Geoscience Laser Altimeter System

GLI &gt; Global Imager

GLORIA &gt; Geological Long-Range Inclined ASDIC

GME &gt; Goddard Medium Energy Experiment (IMP-8)

**GNSS RECEIVER**

GOES I-M IMAGER

GOES I-M SOUNDER

GOES N-P IMAGER

GOES N-P SOUNDER

GOES-8 IMAGER

**GO-FLO BOTTLES**

GOLF &gt; Global Oscillations at Low Frequencies

GOME &gt; Global Ozone Monitoring Experiment

GOME-2 &gt; Global Ozone Monitoring Experiment-2

GOMOS &gt; Global Ozone Monitoring by Occultation of Stars

GONG INSTRUMENT &gt; Global Oscillation Network Group Instrument

GONG NETWORK &gt; Global Oscillation Network Group Network

GPR &gt; Ground Penetrating Radar

GPS &gt; Global Positioning System

GPS CLOCKS

GPS RECEIVERS

GPS SONDE

GPSP &gt; Global Positioning System Payload

GRAB SAMPLERS

**GRANULOMETRIC SIEVES**

GRAS &gt; Global navigation satellite system Receiver for Atmospheric Sounding

**GRAVIMETERS**

GRB &gt; Solar X-Ray/Cosmic Gamma-Ray Burst Experiment

GREEN CORONAGRAPH

GRILLE &gt; Grille Spectrometer

**GROUND WATER LEVEL GAUGES**

GSD &gt; Germanium Semiconductor Detector

**GUST PROBES**

GUVE &gt; Global Ultraviolet Imager

GWLG &gt; Ground Water Level Gauges

**GYROS**

HAIRS &gt; High Accuracy Inter-satellite Ranging System

HALOE &gt; Halogen Occultation Experiment

HAMI &gt; Hydrocarbon Automatic Measuring Instrument

HAMS &gt; High Altitude MMIC Sounding Radiometer

**HARD X-RAY MONITOR**

HATDL &gt; HOBO XT Air Temperature Logger

HCMR &gt; Heat Capacity Mapping Radiometer

**HELIographs**

HENNA &gt; High-Energy Neutral Atom Imager (IMAGE)



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HEP > High Energy Particles (Geotail)  
 HEPAD > High Energy Proton and Alpha Detector  
 HESSI IMAGER  
**HESSI SPECTROMETER**  
 HFOVR > Hemispherical Field of View Radiometer  
 HIRDLS > High-Resolution Dynamics Limb Sounder  
 HIRS > High Resolution Infrared Radiation Sounder  
 HIRS/2 > High Resolution Infrared Radiation Sounder/2  
 HIRS/3 > High Resolution Infrared Radiation Sounder/3  
 HIRS/4 > High Resolution Infrared Radiation Sounder/4  
 HIS > High Resolution Interferometer Sounder  
 HI-SCALE > Heliosphere Instrument for Spectra, Composition, and Anisotropy and Low Energies  
 HMI-SDO > Helioseismic and Magnetic Imager on Solar Dynamics Observatory  
 HPGE > Hyperpure Germanium  
 HPLC > High-Performance Liquid Chromatograph  
 HRCCD > High Resolution CCD Imager  
 HRDI > High Resolution Doppler Imager  
 HRG-1 > High Resolution Geometrical Instrument  
 HRG-2 > High Resolution Geometrical Instrument  
 HRIR > High-Resolution Infrared Radiometer  
 HRPC > High Resolution Panchromatic Camera  
 HRR > High Resolution Radiometer  
 HRS > High Resolution Stereoscopic Instrument  
 HRTC > High Resolution Technological Camera  
 HRTS > High Resolution Telescope and Spectrograph  
 HRV > High Resolution Visible Imaging System  
 HRVIR > High Resolution Visible and Infrared  
 HSB > Humidity Sounder for Brazil  
 HSRL > High Spectral Resolution Lidar  
**HUMIDITY SENSORS**  
**HUMIDITY TRANSDUCERS**  
 HVAS > High Volume Air Sampler  
 HVPS > High Volume Particle Sampler  
 HXIS > Hard X-ray Imaging Spectrometer  
 HXRBS > Hard X-ray Burst Spectrometer  
 HXT > Hard X-ray Telescope  
 HYDRA > Hot Plasma Analyzer  
**HYDROMETERS**  
**HYDROPHONES**  
**HYGROMETERS**  
**HYGROTHERMOGRAPHS**  
 HYPERION > HYPERSPECTRAL IMAGER  
**HYPSOMETERS**  
 IASI > Infrared Atmospheric Sounding Interferometer  
**ICE AUGERS**  
**ICE STRESS SENSORS**  
**ICECUBE**  
 ICI > Ion Composition Instrument  
 ICP-AES > Inductively Coupled Plasma Atomic Emission Spectrometer  
 ICP-ES > INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY  
 ICP-MS > Inductively Coupled Plasma Mass Spectrometer  
 IDM > Ion Drift Meter  
 IES > Inverted Echo Sounders  
 IFSAR > Interferometric Synthetic Aperture Radar  
 IIR > Imaging Infrared Radiometer  
 IKAR > Multichannel Microwave Radiometric System



ILAS > Improved Limb Atmospheric Spectrometer  
 ILAS II > Improved Limb Atmospheric Spectrometer-II  
 IMAGING RADAR SYSTEMS > Imaging Radar Systems, Real and Synthetic Aperture  
 IMAGING RADIOMETERS  
 IMAGING RIOMETERS  
 IME > IMP-8 Magnetometer Experiment  
 IMG > Interferometric Monitor for Greenhouse Gases  
 IMPACT > In situ Measurements of Particles and CME Transients  
 INCLINOMETERS  
 INCOHERENT SCATTER RADAR  
 INCUBATOR  
 INFRARED LASER SPECTROSCOPY  
 INFRARED RADIOMETERS  
 INFRARED THERMOMETERS  
 INFRASONIC MICROPHONES  
 INS > Inertial Navigation System  
 INTERFEROMETERS  
 ION CHROMATOGRAPHS  
 ION MICROPROBES  
 IONIZATION CHAMBER  
 IONIZATION PRESSURE GAUGES  
 IONOSONDE  
 IPU > Instrument Processing Unit  
 IR CO<sub>2</sub> ANALYZER > Infrared Carbon Dioxide Analyzer  
 IRFS-2 > Infrared Fourier Spectrometer-2  
 IRGA > Infrared Gas Analyzers  
 IRIS > Infrared Interferometer Spectrometer  
 IRIS-XSAT > IRIS on X-Sat  
 IRMSS > Infrared Multispectral Scanner  
 IRS (CBERS) > Infrared System (CBERS 3 and 4)  
 IRS > Infrared Radiometer/Spectrometer  
 ISAMS > Improved Stratospheric And Mesospheric Sounder  
 ISO > Imaging Spectrometric Observatory  
 ISS > Integrated Sounding System  
 JAMI > Japanese Advanced Meteorological Imager  
 JPL LASER HYGROMETERS  
 KBR > K-Band Ranging system  
 KEMMERER SAMPLER  
 K-LINE CCD/SOLAR OSCILLATIONS  
 KNOLLENBERG PROBE  
 KONUS > Gamma Ray Burst Detector  
 LAC > LAC (Linear Etalon Imaging Spectrometer Array (LEISA) Atmospheric Corrector  
 LACE > Lightweight Airborne Chromatograph Experiment  
 LA-ICP-MS > Laser Ablation Inductively Coupled Plasma Mass Spectrometer  
 LAND SUBSIDENCE GAUGES  
 LASCO > Large Angle and Spectrometric COronagraph  
 LASE > Lidar Atmospheric Sensing Experiment  
 LASER REFLECTOR  
 LASER SPECTROMETER  
 LASER TRACKING REFLECTOR  
 LASER TRACKING SITE  
 LASERS > Light Amplification by Stimulated Emission of Radiation  
 LBLSC > Low Background Liquid Scintillation Counter  
 LEE > Low Energy Electrons  
 LENA > Low-Energy Neutral Atom Imager (IMAGE)  
 LEP > Low Energy Particles (Geotail)



LEPEDEA > Low-Energy Proton and Electron Differential Energy Analyzer (IMP-8)  
 LFC > Large Format Camera  
 LICOR GAS EXCHANGE SYSTEM  
 LICOR INTEGRATING SPHERE  
 LICOR LEAF AREA METER  
 LICOR PLANT CANOPY ANALYZER  
 LICOR QUANTUM SENSOR  
 LICOR SOIL GAS CHAMBER  
 LIDAR > Light Detection and Ranging  
 LIMS > Limb Infrared Monitor of the Stratosphere  
 LIP > Lightning Instrument Package  
 LIQUID CHROMATOGRAPHS  
 LIS > Lightning Imaging Sensor  
 LISS-I > Linear Imaging Self Scanning Sensor I  
 LISS-II > Linear Imaging Self Scanning Sensor II  
 LISS-III > Linear Imaging Self Scanning Sensor III  
 LISS-IV > Linear Imaging Self Scanning Sensor IV  
 LLLTV > Low Light Level TV  
 LLS > Laser-Light Scattering  
 LONG STREAMERS  
 LOPC-PMS > Laser Optical Particle Counter  
 LORAN > Long Range Navigation  
 LPM > Low Power Magnetometer  
 LPSP > Multichannel High Resolution UV and Visible Spectrometer  
 LRA > Laser Retroreflector Array  
 LRGM > Lacoste-Romberg Gravity Meter  
 LRR > Laser Retro-Reflector  
 LT (SEASAT 1) > SEASAT 1 Laser Tracking  
 LVIS > Laser Vegetation Imaging Sensor  
 LYMAN-ALPHA HYGROMETER  
 LYMAN-ALPHA PHOTOMETER  
 LYSIMETERS  
 MACAWS > Multicenter Airborne Coherent Atmospheric Profiling Wind Sensor  
 MACS > Multiple Aerosol Collection System  
 MAESTRO > Measurements of Aerosol Extinct in the Stratos. and Tropos. Retr. by Occultation  
 MAG > Magnetic Field Experiment  
 MAGNETO OPTICAL FILTER  
 MAGNETOGRAPHS  
 MAGNETOMETERS  
 MAGVAR > Magnetic Variometer  
 MAM > Magnetic Field Instrument  
 MAMS > Multispectral Mapping Atmospheric Sensor  
 MAPS > Measurement of Air Pollution from Satellite  
 MARK IV INTERFEROMETER  
 MAS > MODIS Airborne Simulator  
 MAS/ATLAS > Millimeter-wave Atmospheric Sounder  
 MASP > Mobile Automatic Scanning Photometer  
 MASPR > Multiple-Angle Aerosol Spectrometer Probe  
 MASS > High MASS Resolution Spectrometer  
 MASS SPECTROMETERS  
 MBES > Multibeam Mapping System  
 MBLA > Multi-Beam Laser Altimeter  
 MBT > Mechanical Bathythermographs  
 MC-ICP-MS > Multi Collector Inductively Coupled Plasma Mass Spectrometers  
 MCPHA > Multi Channel Pulse Height Analyzer  
 MDI > Michelson Doppler Imager



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 NASA/Global Change Master Directory (GCMD) Earth Science Keywords. Version 6.0.0.0

MEIS > Multispectral Electro-optical Imaging Sensor  
 MENA > Medium-Energy Neutral Atom Imager (IMAGE)  
 MEPAD > Medium Energy Proton and Alpha Detector  
 MERIS > Medium Resolution Imaging Spectrometer  
 MESA > Miniature Electrostatic Analyzer  
 MESSR > Multispectral Electronic Self-Scanning Radiometer  
 MFE > Magnetic Field Experiment (Geotail)  
 MFE-P > Magnetic Fields Experiment (Polar)  
 MFI > Magnetic Field Investigation (WIND)  
 MFR > Multichannel Flux Radiometer  
 MFR/SSH > MULTICHANNEL FILTER RADIOMETERS/SPECIAL SENSOR H (SSH)  
 MFRSR > Multifilter Rotating Shadowband Radiometer and Broadband Pyranometer  
 MHS > Microwave Humidity Sounder  
 MICHELSON INTERFEROMETER  
 MICROBAROGRAPHS  
 MICROSCOPES  
 MIDWATER TRAWLS  
 MIMR > Multifrequency Imaging Microwave Radiometer  
 MIIMS > Magnetic Ion-Mass Spectrometer  
 MINARAD RST-10  
 MIPAS > Michelson Interferometer for Passive Atmospheric Sounding  
 MIPS-EFM > MIPS Electric Field Mill  
 MIR > Millimeter Imaging Radiometer  
 MIRAS > 2-D Passive L-Band Microwave Interferometer  
 MIS > Microwave Imager/Sounder  
 MISR > Multi-Angle Imaging SpectroRadiometer  
 MLA > Multi-Linear Array  
 MLS > Microwave Limb Sounder  
 MMCR > Millimeter-Wavelength Cloud Radar  
 MMR > Modular Multiband Radiometer  
 MMRS > Multispectral Medium Resolution Scanner  
 MMS > Meteorological Measurement System  
 MOBLAS > Mobile Laser Systems  
 MOCNESS > MOCNESS Plankton Net  
 MODIS > Moderate-Resolution Imaging Spectroradiometer  
 MOMS-01 > Modular Optoelectronic Multispectral Scanner  
 MOMS-02 > Modular Optoelectronic Multispectral Stereo Scanner  
 MONOCHROMATORS  
 MOP VIS/IR > MOP Imaging Radiometer  
 MOPITT > Measurements Of Pollution In The Troposphere  
 MOS > Modular Optoelectronic Scanner  
 MPL > Micropulse Lidar  
 MR > MICROWAVE RADIOMETER  
 MRIR > Medium-Resolution Infrared Radiometer  
 MS > Multispectral Camera  
 MSBS > Multibeam Swath Bathymetry System  
 MSBSP > Multi-Spectral Band Sun Photometer  
 MSIR > Multispectral Imaging Radiometer  
 MSR > Microwave Scanning Radiometer  
 MSS > Multispectral Scanner  
 MST > Mesosphere, Stratosphere and Troposphere Radar  
 MSU > Microwave Sounding Unit  
 MSU-E > Multichannel High Resolution Electronic Scanner  
 MSU-SK > Multichannel Middle Resolution Conical Scanner  
 MTP > Microwave Temperature Profiler  
 MTQ > Magnetic Torque rod



MULTICHANNEL FILTER RADIOMETERS  
 MULTIFILTER RADIOMETER  
 MULTILENS CAMERAS  
 MUON COSMIC RAY DETECTORS  
 MUXCAM > Multi-Spectral Camera  
 MVI > Multiband Vegetation Imager  
 MWA > Multiple Water Analyzer  
 MWR > Microwave Water Radiometer  
 MX-T > Mx Multispectral Camera  
 NACE > Neutral Atmosphere Composition Experiment  
 NANSEN BOTTLES > Nansen Water Sampling Bottles  
 NAST-I > NPOESS Aircraft Sounder Testbed-Interferometer  
 NAST-M > NPOESS Aircraft Sounder Testbed-Microwave Radiometer  
 NAST-MTS > NPOESS Aircraft Microwave Temperature Sounder  
 NATE > Neutral Atmosphere Temperature Experiment  
 NAVREC > ER-2 NAV RECORDER  
 NDIR GAS ANALYZER > Nondispersive Infrared Gas Analyzer  
 NEAR-INFRARED SPECTROMETER  
 NEPHELOMETERS  
 NET RADIOMETERS  
 NEUSTON NET  
 NEUTRON MONITORS  
 NEUTRON PROBE  
 NEVZOROV PROBE > Nevzorov Water Vapor Probe  
 NEXRAD > NEXt Generation RADar  
 NFOVR > Narrow Field of View Radiometer  
 NISKIN BOTTLES  
 N-MASS > Nucleation-Mode Aerosol Size Spectrometer  
 NMLR > Nebraska Multiband Leaf Radiometer  
 NOAA PROFILER  
 NOAMI > Nitrogen Oxide Automatic Measuring Instrument  
 NORPAC ZOOPLANKTON NET  
 NPOL > NASA Portable S-band Multiparameter Weather Research Radar  
 NS-001 TMS > NS-001 Thematic Mapper Simulator  
 NSCAT > NASA Scatterometer  
 NUCLEAR PRECESSION MAGNETOMETER  
 OAMI > Oxidants Automatic Measuring Instrument  
 OBDH > OnBoard Data Handling system  
 OCE > Ocean Color Experiment  
 OCM > OCEAN COLOR MONITOR  
 OCO SPECTROMETERS > Orbiting Carbon Observatory Spectrometers  
 OCPS > Orbiter Camera Payload System  
 OCTS > Ocean Color and Temperature Scanner  
 OFFI > Optical Free Fall Instrument  
 OLS > Operational Linescan System  
 OMEGASONDE  
 OMI > Ozone Monitoring Instrument  
 OMPS > Ozone Mapping and Profiler Suite  
 OPC > Optical Particle Counter  
 OPC > Optical Plankton Counter  
 OPS > Optical Sensor  
 OPTICAL BEACON  
 OPTICAL DUST LOGGERS > Downhole Optical Dust and Ash Loggers  
 OPTICAL TELESCOPES  
 OPTICAL TRACKING  
 OPTSPEC > Optical Spectrometer



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 NASA/Global Change Master Directory (GCMD) Earth Science Keywords. Version 6.0.0.0.

ORG > Optical Rain Gauge  
 OSCR > Ocean Surface Current Radar  
 OSMOMETERS  
 OSS > Open-Source Neutral Mass Spectrometer  
 OTD > Optical Transient Detector  
 OVM > Overhauser Scalar Magnetometer  
 OXYGEN ANALYZERS  
 OXYGEN METERS  
 OZONE DETECTORS  
 OZONE MONITORS  
 OZONE SENSOR  
 OZONEMETERS  
 OZONESONDES  
 PALMS > Particle Analysis by Laser Mass Spectrometry  
 PALS > Passive and Active L- and S-Band System  
 PALSAR > Phased Array type L-band Synthetic Aperture Radar  
 PAM > Portable Fluorescence Analyzers  
 PAN > IRS Panchromatic Camera  
 PANMUX > PanMux Camera  
 PAR SENSORS > Photosynthetically Active Radiation Sensors  
 PARABOLA > Portable Apparatus Rapid Acquisition Bidirectional Observ Land and Atmos  
 PARIS > Pathfinder Airborne Radar Ice Sounder  
 PARS > Photosynthetically Active Radiation Sensors  
 PARTICLE DETECTORS  
 PARTICLE SPECTROMETERS  
 PAS > Photoelectric Aerosol Sensor  
 PASSIVE IONOSPHERIC MONITOR > Passive Ionospheric Monitor (SSI/P)  
 PASSIVE OPTICAL TRACKING  
 PCASP > Passive-Cavity Aerosol Spectrometer Probe  
 PCD > Potential Control Device  
 PEACE > Plasma Electron and Current Experiment  
 PEM > Particle Environment Monitor  
 PENETROMETERS  
 PERMEAMETERS  
 PES (SSJ/3) > Precipitating Electron Spectrometer  
 PES > Photoelectron Spectrometer  
 PETROGRAPHIC MICROSCOPES  
 PH METERS  
 PHASE CONTRAST MICROSCOPES  
 PHOTOMETERS  
 PHOTOSYNTHESIS CHAMBER  
 PHOTOSYNTHETRON  
 PIEZOMETERS  
 PIN DIODE  
 PIP > Precipitation Imaging Probe  
 PIPE STRAIN METER  
 PISTON SAMPLERS  
 PIXIE > Polar Ionospheric X-Ray Imaging Experiment  
 PLA > Panchromatic Linear Array  
 PLANKTON NETS  
 PLANT STRESS MONITOR  
 PLASTIC > PLAsma and SupraThermal Ion and Composition  
 PMS > Particle Measuring System  
 PMS 2D-C PROBE > Particle Measuring Systems 2D-C Probe  
 PMS 2D-P PROBE > Particle Measuring Systems 2D-P Probe  
 POAM II > Polar Ozone and Aerosol Measurement II



POAM III > Polar Ozone and Aerosol Measurement III  
 POLAR-EFI > Polar Electric Fields Instrument  
**POLARIMETERS**  
 POLDER > Polarization/Directionality of the Earth's Reflectance  
 POLSCAT > Polarimetric Ku-Band Scatterometer  
**POROMETER**  
 PORTOS > Radiometer Hyper-frequency Multi-frequency  
 POSEIDON-2 > JASON-1 RADAR ALTIMETER  
 POSEIDON-3 > JASON-2 RADAR ALTIMETER  
 PR > TRMM Precipitation Radar  
 PR-2 > Second Generation Precipitation Radar  
 PRARE > Precise Range and Range-Rate Equipment  
 PRESSURE CHAMBERS  
 PRESSURE GAUGES  
 PRESSURE JUMP DETECTOR  
 PRESSURE PROBE  
 PRESSURE SENSORS  
 PRESSURE TRANSDUCERS  
 PRISM > Panchromatic Remote-sensing Instrument for Stereo Mapping  
 PROBA.CHRIS.1A > PROBA CHRIS Level 1A  
 PROBES  
 PROFILERS  
 PROTON MAGNETOMETER  
 PRT > Precision Radiation Thermometers  
 PSR > Polarimetric Scanning Radiometer  
**PSYCHROMETERS**  
 P-SYSTEM > High Pressure Gas Sampling System  
 PTGA > Propeller Type Generating Anemovane  
 PTR-MS > Proton Transfer Mass Spectrometer  
 PWI > Plasma Waves Investigation (Geotail)  
 PWI-P > Plasma Waves Investigation (Polar)  
 PXRI > Pinhole X-ray Imager  
 PYRANOGRAPHS  
 PYRANOMETERS  
 PYRGEOMETERS  
 PYRHELIOMETERS  
 PYROMETERS  
 PYRRADIOMETERS  
 QUARTZ CRYSTAL THERMOMETER  
 QUICKBIRD/BHRC-60 > Quickbird Ball High Resolution Camera 60  
 RA > ERS Radar Altimeter  
 RA-2 > Radar Altimeter-2  
 RAD GAUGE > Ram Atmosphere Density Gauge  
 RADAR > Radio Detection and Ranging  
 RADAR ALTIMETERS  
 RADAR ECHO SOUNDERS  
 RADIO BURST RECEIVERS  
 RADIO TELESCOPES  
 RADIO TRANSPONDERS  
 RADIOMETERS  
 RADIOSONDES  
 RAIN GAUGES  
 RAMS > Radiation Measurement System  
 RAPID > Research with Adaptive Particle Imaging Detectors  
 RASS > Radio Acoustic Sounding System  
 RAWINSONDES



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 NASA/Global Change Master Directory (GCMD) Earth Science Keywords. Version 6.0.0.0

RBV > Return Beam Vidicon  
 RDEFM > Rotating Dipole Electric Field Mill  
 RED CORONAGRAPH  
 RF ANTENNA  
 RIOMETER > Relative Ionospheric Opacity Meter  
 RIS > Retroreflector in Space  
 RL > Raman Lidar  
 ROCK CORERS >  
 ROCKETSONDES  
 ROSEMOUNT PRESSURE GAUGE  
 ROWS > Radar Ocean Wave Spectrometer  
 RPA > Retarding Potential Analyzer  
 RPI > Radio Plasma Imager (IMAGE)  
 RRS > Reflected Radiation Sensor  
 RSMS > Rapid Single-particle Mass Spectrometer  
 RSP > Research Scanning Polarimeter  
 RT > Reversing Thermometer  
 RTOVS > REVISED TIROS-N OPERATIONAL VERTICAL SOUNDER (RTOVS)  
 RWP50 > 50-MHz Radar Wind Profiler and Radio Acoustic Sounding System  
 RWP915 > 915-MHz Radar Wind Profiler and Radio Acoustic Sounding System  
 SABER > Sounding of the Atmosphere using Broadband Emission Radiometry  
 SACC-BLACKJACK  
 SAFS > Scanning Actinic Flux Spectroradiometer  
 SAGE I > Stratospheric Aerosol and Gas Experiment I  
 SAGE II > Stratospheric Aerosol and Gas Experiment II  
 SAGE III > Stratospheric Aerosol and Gas Experiment III  
 SALINOMETERS  
 SAMI > SO<sub>2</sub> Automatic Measuring Instrument  
 SAMS > Stratospheric and Mesospheric Sounder  
 SAR > Synthetic Aperture Radar  
 SARR > Search and Rescue Repeater  
 SARSAT > Search and Rescue Satellite Aided Tracking System  
 SASS > SEASAT-A Scatterometer System  
 SATELLITE RADIO BEACON  
 SAW > JPL Surface Acoustic Wave Hygrometer  
 SBI > Solar Bolometric Imager  
 SBT > Select-Level Bathymeterographs  
 SBUV > Solar Backscatter Ultraviolet  
 SBUV/2 > Solar Backscatter Ultraviolet/2  
 SCA > Spatial Coordinate Apparatus  
 SCANFISH > SHIP-TOWED UNDULATING VEHICLE  
 SCANNING ELECTRON MICROSCOPES  
 SCARAB > The Scanner for Radiation Budget  
 SCATTEROMETERS  
 SCHOLANDER PRESSURE CHAMBER  
 SCIAMACHY > Scanning Imaging Absorption Spectrometer for Atmospheric Chartography  
 SCINTILLATION COUNTERS  
 SCM > SEARCH COIL MAGNETOMETERS  
 SCOR WP-2 ZOOPLANKTON NET  
 SCR > Selective Chopper Radiometer  
 SCR-HF > Surface Current Radar  
 SCS > Star Camera System  
 SDPTR > Satellite Doppler Positioning Transit Receivers  
 SDTA > Satellite Drag Tracking Apparatus  
 SEAWIFS > Sea-Viewing Wide Field-of-View Sensor  
 SEAWINDS > SeaWinds



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 NASA/Global Change Master Directory (GCMD) Earth Science Keywords. Version 6.0.0.0

SEC > Solar Corona Experiment (Ulysses)  
 SECCHI > Sun Earth Connection Coronal and Heliospheric Investigation  
 SECCHI DISKS  
 SEDIMENT CORERS  
 SEDIMENT METERS  
 SEDIMENT TRAPS  
 SEE > Solar EUV Experiment  
 SEISMIC REFLECTION PROFILERS  
 SEISMOGRAPHS  
 SEISMOMETERS  
 SEM > Space Environment Monitor  
 SEM-2 > Space Environment Monitor-2  
 SEM-N > Space Environment Monitor NPOESS  
 SEPICA > Solar Energetic Particle Charge Analyzer  
 SEPS > Source Loss-Cone Energetic Particle Spectrometer  
 SEVIRI > Spinning Enhanced Visible and Infrared Imager  
 SFD > Scintillating Fiber Detector  
 SFERICS DETECTOR  
 SFM > Spectrofluorometer  
  
 SHRIMP > Sensitive High Resolution Ion Microprobe  
 SIDE-SCAN SONAR  
 SILICON PHOTODIODES  
 SIM > Spectral Irradiance Monitor  
 SIMS > Secondary Ion Mass Spectrometers  
 SIR-A > Shuttle Imaging Radar-A  
 SIR-B > Shuttle Imaging Radar-B  
 SIR-C > Spaceborne Imaging Radar-C  
 SIRIS > Stratospheric Infrared Interferometer Spectrometer  
 SIRS > Satellite Infrared Spectrometer  
 SIS > Solar Isotope Spectrometer  
 SKY-RADIOMETER  
 SLAR > Side-Looking Airborne Radar  
 SLIM-6 > SLIM-6 Imager  
 SLR > Satellite Laser Ranging  
 SLRAR > Side-Looking Real Aperature Radar  
 SLS > Submillimeter Limb Sounder  
 SMM-HXIS > SMM Hard X-ray Imaging Spectrometer  
 SMMR > Scanning Multichannel Microwave Radiometer  
 SMPS > Scanning Mobility Particle Sizer  
 SMS > SWICS/MASS/STICS Instrument  
 SNOW DENSITY CUTTER  
 SNOW FORKS  
 SNOW MEASURING ROD  
 SNOW TUBE  
 SNOWPACK TEMPERATURE PROBE  
 SODAR > Sound Detection and Ranging  
 SOFIA > STRATOSPHERIC OBSERVATORY FOR INFRARED ASTRONOMY  
 SOFIE > Solar Occultation for Ice Experiment  
 SOIL DEPTH PROBE  
 SOIL HEAT FLUX TRANSDUCER  
 SOIL HEAT PROBE  
 SOIL MOISTURE PROBE  
 SOIL PRESSURE PLATE  
 SOIL SAMPLER  
 SOIL TEMPERATURE PROBE



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SOLAR SIMULATORS  
 SOLAR TELESCOPES  
 SOLAR UV SPECTROMETERS  
 SOLARIMETERS  
 SOLCON > Measurement of the Solar Constant  
 SOLSPEC > Solar Spectrum Measurement  
 SOLSTICE > Solar-Stellar Irradiance Comparison Experiment  
 SOMMA > Single Operator Multiparameter Metabolic Analyzer  
 SONAR > Sound Navigation and Ranging  
 SONIC ANEMOMETER  
 SONOBUOYS  
 SOPA > Synchronous Orbit Particle Analyzer  
 SOSUS > Sound Surveillance System  
 SOT > SOLAR OPTICAL TELESCOPE (HINODE)  
 SOUNDERS  
 SOUP > Solar Optical Universal Polarimeter  
 SPACE RADIATION DOSIMETER >  
 SPEA > Solar Plasma Electrostatic Analyzer (IMP-8)  
 SPECIFIC ION METERS  
 SPECTROGRAPHS  
 SPECTROHELIographs  
 SPECTROMETERS  
 SPECTROPHOTOMETERS  
 SPECTRORADIOMETERS  
 SPFC > Solar Plasma Faraday Cup (IMP-8)  
 SPIN-SCAN AURORAL IMAGER  
 SPMAMI > Suspended Particulate Matter Automatic Measuring Instrument  
 SPOL > NCAR S-band Polarimetric Doppler Radar  
 SPRING BALANCE > SPRING BALANCE  
 SR > Scanning Radiometer  
 SRTM > Shuttle Radar Topography Mission  
 SSALT > POSEIDON Solid State Radar Altimeter  
 SSB/O > Remote X-Ray Sensor - Precipitating Electrons (SSB/O)  
 SSB/S > X-Ray Detector (SSB/S)  
 SSB/X > Advanced X-Ray Detector (SSB/X)  
 SSB/X2 > Advanced X-Ray Detector (SSB/X2)  
 SSBUV > Shuttle Solar Backscatter Ultraviolet  
 SSC > Snow/Cloud Discriminator Special Sensor C  
 SSCC > Spin Scan Cloud Camera  
 SSD > Atmospheric Density Sensor  
 SSFR > Solar Spectral Flux Radiometers  
 SSH-2 > Infrared Temperature and Moisture Sounder  
 SSI/E > Ionospheric Plasma Monitor (SSI/E)  
 SSI/ES > Special Sensor Ionospheric Plasma Monitor  
 SSI/ES2 > Special Sensor Ionospheric Plasma Monitor 2  
 SSIES > Ion Scintillation Monitor  
 SSJ > Electron Spectrometer Special Sensor J (SSJ)  
 SSJ/4 > Precipitating Electron/Ion Spectrometer  
 SSM > Special Sensor Magnetometer  
 SSM/I > Special Sensor Microwave/Imager  
 SSM/T > Special Sensor Microwave/Temperature  
 SSM/T-2 > Special Sensor Microwave/Temperature Profiler  
 SSMI/S > Special Sensor Microwave Imager/Sounder  
 SSTI > Satellite-to-Satellite Tracking Instrument  
 SSU > Stratospheric Sounding Unit  
 SSULI > Special Sensor Ultraviolet Limb Imager



STAFF > Spatio-Temporal Analysis of Field Fluctuation Experiment  
 STC > Salinity, Temperature , Conductivity  
 STD > Salinity, Temperature, Depth  
 STEEL MEASURING TAPE  
 STEP FREQUENCY RADIOMETERS  
 STICS > SupraThermal Ion Composition Spectrometer  
 STILLING WELL  
 STOKES POLARIMETER  
 STRAIN GAUGE WHEATSTONE BRIDGE  
 STRAIN METER  
 STREAM GAUGES  
 STS > Step Sampler  
 SUMER > Solar Ultraviolet Measurements of Emitted Radiation  
 SUN PHOTOMETERS  
 SUNFLECK CEPTOMETER  
 SUNSHINE RECORDERS  
 SUPERCONDUCTING GRAVIMETER  
 SUPERSTAR > Space Triaxial Accelerometer for Research Missions  
 SURVEYING TOOLS  
 SUSIM > Solar Ultraviolet Spectral Irradiance Monitor  
 SWAN > Solar Wind Anisotropies  
 SWAVES > STEREO WAVES  
 SWE > Solar Wind Experiment (WIND)  
 SWEPAM > Solar Wind Electron, Proton, and Alpha Monitor  
 SWICS > Solar Wind Ion Composition Spectrometer  
 SWICS-U > Solar Wind Ion Composition Spectrometer (Ulysses)  
 SWIMS > Solar Wind Ion Mass Spectrometer  
 SWIR > Short Wavelength Infrared Radiometer  
 SWMS > Surface Water Monitoring System  
 SWOOPS > Solar Wind Plasma Experiment (Ulysses)  
 SXI > Solar X-ray Imager  
 SXM-2 > Multichannel Sun Photometer  
 SXP > Solar X-ray Photometer  
 SXT > Soft X-ray Telescope  
 TCISS > TOGA COARE Integrated Sounding System  
 TDDR > Total-Direct-Diffuse Multichannel Radiometer  
 TDR > Time Domain Reflectometry Probe  
 TEAMS > Time of Flight Energy Angle Mass Spectrometer  
 TED > Total Energy Detector  
 TELEMETER  
 TELESCOPES  
 TEM > TRANSMISSION ELECTRON MICROSCOPY  
 TEMPERATURE LOGGERS  
 TEMPERATURE PROBES  
 TEMPERATURE PROFILERS  
 TEMPERATURE SENSORS  
 TENSION INFILTROMETER  
 TEOM > Tapered Element Oscillating Microbalance  
 TES > Tropospheric Emission Spectrometer  
 TETHERSONDES  
 TGRS > Transient Gamma-Ray Spectrometer  
 THEMIS-EFI > THEMIS Electric Field Instrument  
 THEMIS-ESA > THEMIS Electrostatic Analyzers  
 THEMIS-FGM > Themis Fluxgate Magnetometer  
 THEMIS-SST > THEMIS Solid State Telescope  
 THEODOLITE



THERMISTORS  
 THERMOCOUPLES  
 THERMOMETERS  
 THERMOSALINOGRAPHS  
 THIR > Temperature-Humidity Infrared Radiometer  
 THR > THRuster activation system  
 TIDE > Thermal Ion Dynamics Experiment  
 TIDE GAUGES  
 TIDI > TIMED Doppler Interferometer  
 TIM > Total Irradiance Monitor  
 TIMAS > Toroidal Imaging Mass-Angle Spectrograph  
 TIMAX > X-Ray Imaging Telescope  
 TIMS > Thermal Infrared Multispectral Scanner  
 TIROS-N > TIROS-N Operational Vertical Sounder  
 TLPSCS > Thermoluminescence Photon Counting System  
 TLRS > Transportable Laser Ranging Systems  
 TM > Thematic Mapper  
 TMI > TRMM Microwave Imager  
 TMR > TOPEX Microwave Radiometer  
 TMRS2 > Tower Mounted Radiometer System 2  
 TMS > Thematic Mapper Simulator  
 TNK > cold gas TaNK system  
 TNR > Thermopile Net Radiometer  
 TOC > Total Organic Carbon Analyzer  
 TOGA RADAR  
 TOMS > Total Ozone Mapping Spectrometer  
 TOTCAP > Tropospheric Ozone and Tracers from Commercial Aircraft Platforms  
 TOVS > TIROS Operational Vertical Sounder  
 TRACE IMAGING TELESCOPE > Transition Region and Coronal Explorer Telescope  
 TRANSMISSOMETERS  
 TRANSPARENCY METER  
 TRANSPONDERS  
 TRAWL  
 TSI > TOTAL SKY IMAGER  
 TUBBS TOWS  
 TUCKER TRAWLS  
 TUNABLE DIODE LASER  
 TURBIDITY METERS  
 UCN > Ultrafine Condensation Nucleus Counter  
 ULEIS > Ultra Low Energy Isotope Spectrometer  
 ULTRASONIC DEPTH GAUGE  
 ULYSSES-FGM > Ulysses Flux Gate Magnetometer  
 UMKEHR OBSERVATIONS  
 UPWARD LOOKING SONAR  
 URAP > Unified Radio and Plasma Wave Experiment (Ulysses)  
 USIM > Underwater Spectral Irradiance Meter  
 USO > Ultra-Stable Oscillator  
 UV OZONE DETECTORS > Ultraviolet Ozone Detectors  
 UV SPECTROMETER > Ultraviolet Ozone Spectrometer  
 UVCS > Ultraviolet Coronagraph Spectrometer  
 UVI > UltraViolet Imager (Polar)  
 UVIC > UV Ion Chamber  
 UVNO > Ultraviolet Nitric Oxide Spectrometer  
 UVS > Ultraviolet Spectrometer (SNOE)  
 UVSP > Ultraviolet Spectrometer and Polarimeter  
 VAE > Visible Airglow Photometer



VAS > VISSR Atmospheric Sounder  
 VCEIL > Vaisala Ceilometer  
**VECTOR MAGNETOGRAPHS**  
 VEGETATION-1 > Vegetation Instrument 1 (SPOT 4)  
 VEGETATION-2 > Vegetation Instrument 2 (SPOT 5)  
**VERTICAL POINTING RADAR**  
 VHM > Vector Helium Magnetometer (Ulysses)  
 VHRR > Very High Resolution Radiometer  
**VIDEO CAMERA**  
 VIIRS > Visible-Infrared Imager-Radiometer Suite  
 VIL > Volume Imaging Lidar  
 VIRGO > Variability of Solar Irradiance and Gravity Oscillations  
 VIRIS > Visible and Infrared Intelligent Spectrometer  
 VIRL > Visible and Near IR Lidar  
 VIRR > Visible and Infrared Radiometer  
 VIRS > TRMM Visible Infrared Scanner  
 VIS > Visible Imaging System (Polar)  
**VISIBLE SPECTROMETER**  
 VISSR > Visible and Infrared Spin Scan Radiometer  
**VISUAL OBSERVATIONS**  
 VLA > The Very Large Array  
 VLBI > Very Long Baseline Interferometry  
**VLF RECEIVERS**  
 VNIR > Visible and Near Infrared Radiometer  
**VOLTAGE METERS**  
 VOPC > Video Optical plankton Counter  
 VPR > Video Plankton Recorder  
 VTIR > Visible and Thermal Infrared Radiometer  
 VTPR > Vertical Temperature Profile Radiometer  
 WAS > Whole Air Sampler  
**WATER BOTTLES**  
**WATER LEVEL GAUGES**  
**WATERGUNS**  
 WATS > Wind and Temperature Spectrometer  
**WAVE HEIGHT GAUGES**  
 WAVES > Radio and Plasma Wave Investigation  
 WBD > Wide Band Data Instrument  
 WBS > Wide Band Spectrometer  
**WELL LOGGING TOOLS**  
**WET BULB THERMOMETERS**  
**WET DEPOSITION COLLECTORS**  
**WET/DRY PRECIPITATION SAMPLERS**  
 WFC > Wide Field Camera  
 WFI (CBERS 1,2) > Wide Field Imager  
 WFI (CBERS 3,4) > Wide Field Imager  
 WHISPER > Waves of High Frequency and Sounder for Probing Electron Density by Relaxation  
 WIFS > Wide Field Scanner  
**WIND MONITOR**  
**WIND PROFILERS**  
**WIND VANES**  
 WINDII > Wind Imaging Interferometer  
 WL/CR > Water Level/Climate Recorders  
 WS > Wind Scatterometer  
 WSI > Whole-Sky Imager  
 WVSS > Water Vapor Sensing System  
 WWS > Whole Water Sampler



XBT > Expendable Bathythermographs  
XCP > Expendable Current Profiler  
XPOL > NOAA/ETL X-band Polarimetric Doppler Radar  
XPS > XUV Photometer System  
**X-RAY TELESCOPE**  
XRD > X-ray Diffractometer  
XRF > X-Ray Fluorescence Spectrometer  
XRP > X-Ray Polychromator  
XRPD > X-Ray Powder Diffractometer  
XRT > X-RAY TELESCOPE (HINODE)  
X-SAR > X-Band Synthetic Aperture Radar  
XSV > Expendable Sound Velocity Profilers



At this time, we are requesting that the following citation be used by those individuals and groups using the GCMD keywords.  
Olsen, L.M., G. Major, K. Shein, J. Scialdone, R. Vogel, S. Leicester, H. Weir, S. Ritz, T. Stevens, M. Meaux, C. Solomon, R. Bilodeau, M. Holland, T. Northcutt, R. A. Restrepo, 2007 .  
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