

APPENDIX 9. ACRONYMS

ACCENT	Atmospheric Chemistry of Combustion Emissions Near the Tropopause
ACE-Asia	Aerosol Characterization Experiment-Asia
AERONET	Aerosol Robotic Network
AETD	Applied Engineering and Technology Directorate
AIRS	Atmospheric Infrared Sounder
AMSR	Advanced Microwave Scanning Radiometer
AMSU	Advanced Microwave Sounding Unit
AROTEL	Airborne Raman Ozone, Temperature, and Aerosol Lidar
ARM	Atmospheric Radiation Measurement
ARREX	Aerosol Recirculation and Rainfall Experiment
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer
ATMS	Advanced Technology Microwave Sounder
AVHRR	Advanced Very High Resolution Radiometer
AVIRIS	Airborne Visible/Infrared Imaging Spectrometer
BUV	backscatter ultraviolet
CAN	Cooperative Agreement Notice
CCAST	Cooperative Center for Atmospheric Science and Technology
CCD	Convective Cloud Differential
CCM4	Community Climate Model version 4
CEAS	Center for Earth-Atmosphere Studies
CERES	Clouds and the Earth's Radiant Energy System
CFCs	chlorofluorocarbons
CHARC	CSTEA HBCU Academic and Research Consortium
CHyMERA	Compact Hyperspectral Mapper for Environmental Remote Sensing Applications
CIFAR	Cooperative Institute for Atmospheric Research
CIMEL	Sun Photometer (French word)
CLIVAR	Climate Variability and Predictability Programme
CNES	Center Nationale d'Etude Spatiales
Co-I	Co-Investigator
CONTOUR	Comet Nucleus Tour
COVIR	Compact Vis IR
CPL	Cloud Physics Lidar
CrIS	Crosstrack Infrared Sounder
CRM	Cloud Resolving Model
CRS	Cloud Radar System
CSTEA	Center for the Study of Terrestrial and Extraterrestrial Atmospheres
DAAC	Distributed Active Archive Center
DAO	Data Assimilation Office
DAS	Data Assimilation System
DDF	Director's Discretionary Fund
DIAL	Differential Absorption Lidar
DISS	Distributed Image Spreadsheet
DMSP	Defense Meteorological Satellite Program
ECSO	Executive Committee for Science Outreach
EDOP	ER-2 Doppler Radar
EDR	Environmental Data Record

EI	El Niño Index
ENSO	El Niño Southern Oscillation
ENVISAT	Environmental Satellite
EOS	Earth Observing System
EPIC	Earth Polychromatic Imaging Camera
ERBE	Earth Radiation Budget Experiment
ESA	European Space Agency
ESE	Earth Science Enterprise
ESPI	ENSO Precipitation Index
ESSIC	Earth System Science Interdisciplinary Center
ESSP	Earth Systems Science Pathfinder
E-Theater	Electronic Theater
EUV	extreme ultraviolet
FFPA	filter/focal plane array
4DDA	four-dimensional data assimilation
GCE	Goddard Cumulus Ensemble model
GCM	General Circulation Model
GCMS	Gas Chromatograph Mass Spectrometer
GCRP	Global Change Research Program
GEOS	Goddard Earth Observing System
GEST Center	Goddard Earth Sciences and Technology Center
GEWEX	Global Energy and Water Cycle Experiment
GLAS	Geoscience Laser Altimeter System
GLOBE	Global Learning and Observations to Benefit the Environment
GLOW	Goddard Lidar Observatory for Winds
GMI	Global Modeling Initiative
GMS	Geostationary Meteorological Satellite
GOES	Geostationary Operational Environmental Satellite
GoHFAS	Goddard Howard University Fellowship in Atmospheric Sciences
GPCP	Global Precipitation Climatology Project
GPM	Global Precipitation Mission
GPMS	Galileo Probe Mass Spectrometer
GPS	Global Positioning Satellite
GSFC	Goddard Space Flight Center
GTWS	Global Tropospheric Wind Sounder
GUV	Ground-based Ultraviolet Radiometer
GV	Ground Validation
GVP	Ground Validation Program
HARLIE	Holographic Airborne Rotating Lidar Instrument Experiment
HBCUs	Historically Black Colleges and Universities
HDTV	High Definition TV
HIRS	High Resolution Infrared Sounder
HOTS	Holographic Optical Telescope and Scanner
HPCC	High Performance Computing and Communications
HSB	Humidity Sounder Brazil
HSCT	High-Speed Civil Transport
HUPAS	Howard University Program in Atmospheric Sciences
IAP	Independent Activity Period course
IGS	Internal Government Studies

IIP	Instrument Incubator Program
INDOEX	Indian Ocean Experiment
INMS	Ion and Neutral Mass Spectrometer
IORD	Integrated Operational Requirements Document
IPO	Integrated Program Office
IR	infrared
ISAS	Institute of Space and Aeronautical Science
ISCCP	International Satellite Cloud Climatology Project
ISIR	IR Spectrometer Imaging Radiometer
ITCZ	Intertropical Convergence Zone
JARG	Joint Agency Requirements Group
JCET	Joint Center for Earth Systems Technology
JCG	Joint Center for Geoscience
JCOSS	Joint Center for Observation System Science
JCSDA	Joint Center for Satellite Data Assimilation
JPL	Jet Propulsion Laboratory
KWAJEX	Kwajalein Experiment
LARS	Lidar Atmospheric Raman Spectrometer
LAS	Leonardo Airborne Simulator
LASAL	Large Aperture Scanning Airborne Lidar
LI	La Niña Index
LSM	Land Surface Model
MBA	microbolometer array
MEIDEX	Mediterranean Israeli Dust Experiment
MISR	Multi-Angle Imaging Spectroradiometer
MIT	Massachusetts Institute of Technology
MM5	Mesoscale Model 5
MODIS	Moderate Resolution Imaging Spectroradiometer
MOPITT	Measurements of Pollution in the Troposphere
MPL	Micro Pulse Lidar
MSU	Microwave Sounding Unit
NAS	Numerical Aerospace Simulation
NASA	National Aeronautics and Space Administration
NASDA	National Space Development Agency
NCAR	National Center for Atmospheric Research
NCCS	NASA Center for Computational Sciences
NCEP	National Center for Environmental Prediction
NDSC	Network for the Detection of Stratospheric Change
NESDIS	National Environmental Satellite Data and Information Service
NEWMAST	NASA Educational Workshop for Secondary Math, Science, and Technology Teachers
NGI	Next Generation Internet
NGIMS	Neutral Gas and Ion Mass Spectrometer
NIIEM	Russian Scientific Research Institute of Electromechanics
NIST	National Institutes of Standards and Technology
NMNH	National Museum of Natural History
NMS	Neutral Mass Spectrometer
NOAA	National Oceanic Atmospheric Administration
NPOESS	National Polar Orbiting Environmental Satellite System

NPP	NPOESS Preparatory Project
NRC	National Research Council
NSES	National Science Education Standards
NSF	National Science Foundation
NSIPP	NASA Seasonal-to-Interannual Prediction Project
NTSC	National Television Standards Committee
OAT	Operation Algorithm Team
ODIN	a Swedish small satellite project for astronomical and atmospheric research
OLR	Outgoing Longwave Radiation
OMPS	Ozone Mapper and Profiler System
OSIRIS	ODIN Spectrometer and IR Imager System
OSR	outgoing shortwave radiation
OSSE	Observing System Simulation Experiment
PI	Principal Investigator
PICASSO-	Pathfinder Instruments for Cloude and Aerosol Spaceborne Observations-
CENA	Climatologie Etendue des Nuages et des Aerosols
PLACE	Parameterization for Land Atmosphere Cloud Exchange
PRiDE	Puerto Rico Dust Experiment
POES	Polar Orbiting Environmental Satellite
PSAS	Physical-space Statistical Analysis System
QuikSCAT	scatterometer satellite
QuikTOMS	spacecraft rapidly developed by Orbital Sciences Corp. to carry TOMS-5
RASL	Raman Airborne Spectroscopic Lidar
RCDF	Radiometric Calibration and Development Facility
RELACS	Regional Land-Atmosphere Climate Simulation System
RSAS	Rayleigh Scattering Altitude Sensor
SAFARI	Southern Africa Fire-Atmosphere Research Initiative
SAGE	Stratospheric Aerosol and Gas Experiment
SAVE	Southern African Validation Experiment
SBIR	Small Business Innovative Research
SBUV/2	Solar Backscatter Ultraviolet/version 2
SCIAMACHY	Scanning Imaging Absorption Spectrometer for Atmospheric Cartography
SCO	stratospheric column ozone
SCSMEX	South China Sea Monsoon Experiment
SeaWiFS	Sea-viewing Wide Field-of-View Sensor
SHADOZ	Southern Hemisphere ADditional OZonesondes
SHARP	Summer High School Apprenticeship Research Program
SMART	Surface Measurements for Atmospheric Radiative Transfer
SMiR	Scanning Microwave Radiometer
SOAT	Sounder Operation Algorithm Teams
SOLSE/LORE	Shuttle Ozone Limb Sounding Experiment/Limb Ozone Retrieval Experiment
SOLVE	SAGE III Ozone Loss and Validation Experiment
SONEX	Sass Ozone and Nitrogen oxides EXperiment
SORCE	Solar Radiation and Climate Experiment
SPARCLE	South Pole Atmospheric Radiation and Cloud Lidar Experiment
SRL	Scanning Raman Lidar
SSM/I	Special Sensor Microwave Imager
SST	sea surface temperature

SSU	Spectral Sensor Unit
STAAC	Systems, Technology, and Advanced Concepts Directorate
STROZ LITE	Stratospheric Ozone Lidar Trailer Experiment
TCO	tropospheric column ozone
THESEO	Third European Stratospheric Experiment on Ozone
THOR	cloud THickness from Offbeam Returns
3S	Sun-Sky-Surface photometer
TIROS	Televised Infrared Operational Satellite
TM	Thematic Mapper
TMI	TRMM Microwave Imager
TOGA-COARE	Tropical Ocean Global Atmosphere-Coupled Ocean Atmosphere Response Experiment
TOMS	Total Ozone Mapping Spectrometer
TOMS-CAM	Total Ozone Mapping Spectrometer Camera
TOMS-EP	Total Ozone Mapping Spectrometer-Earth Probes
TOVS	TIROS Operational Vertical Sounder
TPW	total precipitable water
TRMM	Tropical Rainfall Measuring Mission
TSDIS	TRMM Science Data and Information System
UARS	Upper Atmosphere Research Satellite
UCLA	University of California - Los Angeles
UMBC	University of Maryland Baltimore County
UMCP	University of Maryland College Park
USGCRP	US Global Change Research Program
USRA	Universities Space Research Association
UV	ultraviolet
VAL	Visualization Analysis Laboratory
WCRP	World Climate Research Programme