APPENDIX 8. ACRONYMS

1DVAR	1-dimension variational	CIMEL	Sun Photometer (French word)
2D	two-dimensional	CLS	Cloud Lidar System
3D	three-dimensional	CNES	Center Nationale d'Etude Spatiales
4DDA	four-dimensional data assimilation	Co-I	Co-Investigator
ACCENT	Atmospheric Chemistry of Combustion Emissions Near the Tropopause	CONTOUR	Comet Nucleus Tour
		COVIR	Compact Vis IR
AEAP	Atmospheric Effects of Aviation Project	CrIS	Crosstrack Infrared Sounder
AETD	Applied Engineering and Technology Directorate	CRM	Cloud Resolving Model
AIRS	Atmospheric Infrared Sounder	CSTEA	Center for the Study of Terrestrial and Extraterrestrial Atmospheres
AMNH	American Museum of Natural History	DAAC	Distributed Active Archive Center
AMSR	Advanced Microwave Scanning	DAO	Data Assimilation Office
ANGUI	Radiometer	DAS	Data Assimilation System
AMSU	Advanced Microwave Sounding Unit	DDF	Director's Discretionary Fund
AOD	aerosol optical depth	DIAL	DIfferential Absorption Lidar
ARL	Airborne Raman Lidar	DISS	Distributed Image Spreadsheet
ARM	Atmospheric Radiation Measurement	DMSP	Defense Meteorological Satellite
ARREX	Aerosol Recirculation and Rainfall Experiment	DWIST	Program
ATMS	Advanced Technology Microwave Sounder	ECSO	Executive Committee for Science Outreach
AVHRR	Advanced Very High Resolution Radiometer	EDOP	ER-2 Doppler Radar
		EDR	Environmental Data Record
AVIRIS	Airborne Visible/Infrared Imaging Spectrometer	EI	El Niño Index
BUV	Backscatter Ultraviolet	ENSO	El Niño Southern Oscillation
C	Celsius	ENVISAT	Environmental Satellite
CAN		EOS	Earth Observing System
	Cooperative Agreement Notice Cooperative Center for Atmospheric	EPIC	Earth Polychromatic Imaging Camera
CCAST	Science and Technology	ERBE	Earth Radiation Budget Experiment
CCD	Convective Cloud Differential	ESA	European Space Agency
CCM4	Community Climate Model version 4	ESE	Earth Science Enterprise
CEAS	Center for Earth-Atmosphere Studies	ESIP	Earth Science Information Partners
CFCs	chlorofluorocarbons	ESPI	ENSO Precipitation Index
CHARC	CSTEA HBCU Academic and Research Consortium	ESSIC	Earth System Science Interdisciplinary Center
CHyMERA	Compact Hyperspectral Mapper for Environmental Remote Sensing Applications	ESSP	Earth Systems Science Pathfinder
		Etheater	Electronic Theater
CICA	Competition In Contracting Act	EU	Engineering Unit
CIFAR	Cooperative Institute for Atmospheric Research	EUV	Extreme Ultraviolet
		FFPA	filter/focal plane array

FOR	field of regard	INMS	Ion and Neutral Mass Spectrometer
ft	feet	IOP	Intensive Operations Period
GCE	Goddard Cumulus Ensemble model	IORD	Integrated Operational Requirements
GCM	General Circulation Model	1012	Document
GCMS	Gas Chromaograph Mass Spectrometer	IPO	Integrated Program Office
GCRP	Global Change Research Program	IR	Infrared
GEOS	Goddard Earth Observing System	ISAS	Institute of Space and Aeronautical Science
GEWEX	Global Energy and Water Cycle Experiment	ISCCP	International Satellite Cloud Climatology Project
GLOBE	Global Learning and Observations to Benefit the Environment	ISIR	IR Spectrometer Imaging Radiometer
GLOW	Goddard Lidar Observatory for Winds	ITCZ	Intertropical Convergence Zone
GMI	Global Modeling Initiative	JARG	Joint Agency Requirements Group
GMS	Geostationary Meteorological Satellite	JASON	name of a mythical character the project is named for
GOES	Geostationary Operational Environmental Satellite	JCET	Joint Center for Earth Systems Technology
GoHFAS	Goddard Howard University Fellowship in Atmospheric Sciences	JCG	Joint Center for Geoscience
GPCP	Global Precipitation Climatology Project	JCOSS	Joint Center for Observation System Science
GPMS	Galileo Probe Neutral Mass Spectrometer	JPL	Jet Propulsion Laboratory
GPS	Global Positioning Satellite	K	Kelvin
GSFC	Goddard Space Flight Center	KCO	Kaashidhoo Island Observatory
GUV	Ground-based Ultraviolet Radiometer	km	kilometers
GV	Ground Validation	KWAJEX	Kwajalein Experiment
GVP	Ground Validation Program	LARS	Lidar Atmospheric Raman Spectrometer
h	hours	LAS	Leonardo Airborne Simulator
HARLIE	Holographic Airborne Rotating Lidar Instrument Experiment	LASAL	Large Aperture Scanning Airborne Lidar
HBCUs	Historically Black Colleges and Universities	LI	La Niña Index
		LSM	Land Surface Model
HDTV	High Definition TV	m	meters
HIRS	High Resolution Infrared Sounder	mb	millibar
HOTS	Holographic Optical Telescope and Scanner	MBA	microbolometer array
HSB	Humidity Sounder Brazil	MEIDEX mid-IR	Mediterranean Israeli Dust Experiment mid-Infrared
HSCT	High-Speed Civil Transport		
HUPAS	Howard University Program in Atmospheric Sciences	MIT mm	Massachusetts Institute of Technology micrometer
IAP	Independent Activity Period course	MM5	Mesoscale Model 5
IFOV	instantaneous field of view	MODIS	Moderate Resolution Imaging
IGS	Internal Government Studies	MDI	Spectroradiometer
IIP	Instrument Incubator Program	MPL	Micro Pulse Lidar
INDOEX	Indian Ocean Experiment	MRF	Medium-Range Forecast
	*		

MSU NAS	Microwave Sounding Unit Numerical Aerospace Simulation	PAUR	Photochemical Activity and Ultraviolet Radiation Modulation Factors
NASA	National Aeronautics and Space	PI	Principal Investigator
	Administration	PLACE	Parameterization for Land Atmosphere Cloud Exchange
NASDA	National Space Development Agency	POES	Polar Orbiting Environmental Satellite
NCAR	National Center for Atmospheric Research	ppbv	parts per billion volume
NCCS	NASA Center for Computational Sciences	PSAS	Physical-space Statistical Analysis System
NCEP	National Center for Environmental Prediction	QuikSCAT	scatterometer satellite
NDSC	Network for the Detection of Stratospheric Change	RCDF	Radiometric Calibration and Development Facility
NESDIS	National Environmental Satellite Data and Information Service	RSAS	Rayleigh Scattering Altitude Sensor
		s/n	signal to noise
NEWMAST	"NASA Educational Workshop for Secondary Math, Sciece, and Technology Teachers"	SAFARI	Southern Africa Fire-Atmosphere Research Initiative
NGI	Next Generation Internet	SAGE	Stratospheric Aerosol and Gas Experiment
NGIMS	Neutral Gas and Ion Mass Spectrometer	SASS	Subsonic Assessment
NIIEM	Russian Scientific Research Institute of	SBIR	Small Business Innovative Research
	Electromechanics	SBUV/2	Solar Backscatter Ultraviolet/version 2
NIST	National Institutes of Standards and	SCAR-B	Smoke Cloud And Radiation -Brazil
nm	Technology nanometer	SCHIAMACHY	Spectrometer for Atmospheric
NMNH	National Museum of Natural History		Cartography
NMS	Neutral Mass Spectrometer	SCO	stratospheric column ozone
NO	nitric oxide	SCSMEX	South China Sea Monsoon Experiment
NOAA	National Oceanic Atmospheric Administration	SeaWiFS	Sea-viewing Wide Field-of-View Sensor
		SHARP	Summer High School Apprenticeship Research Program
NPOESS	National Polar Orbiting Environmental Satellite System	SMiR	Scanning Microwave Radiometer
NPP	NPOESS Preparatory Project	SOLSE/LORE	Shuttle Ozone Limb Sounding Experiment/Limb Ozone Retrieval Experiment
NRC	National Research Council		
NSES	National Science Education Standards	SOLVE	SAGE Ozone Loss and Validation
NSIPP	NASA Seasonal-to-Interannual Prediction Project	SOLVE	Experiment
NTSC	National Television Standards Committee	SONEX	Sass Ozone and Nitrogen oxides EXperiment
OAT	Operation Algorithm Team	SPARCLE	South Pole Atmospheric Radiation and
ODIN	a Swedish small satellite project for astro-		Cloud Lidar Experiment
	nomical and atmospheric research	SRL	Scanning Raman Lidar
OLR	Outgoing Longwave Radiation	SSM/I	Special Sensor Microwave Imager
OMPS	Ozone Mapper and Profiler System	SST	sea surface temperature
OSIRIS	ODIN Spectrometer and IR Imager System	SSU	Spectral Sensor Unit
OSR	outgoing shortwave radiation	STAAC	"Systems, Technology, and Advanced Concepts Directorate"
OSSE	Observing System Simulation Experiment		

STROZ LITE Stratospheric Ozone Lidar Trailer

Experiment

SUCCESS Subsonic aircraft: Contrails and Clouds

Effects Special Study

SUNBEAMS Students United with NASA Becoming

Enthusiastic About Math and Science

TARFOX Tropospheric Aerosol Radiative Forcing

Observational eXperiment

TCO tropospheric column ozone

THESO Third European Stratospheric Experiment

on Ozone

THOR cloud THickness from Offbeam Returns
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
USGCRP US Global Change Research Program
USRA Universities Space Research Association

UV ultraviolet

VAL/912 Visualization and Analysis Laboratory

VIS Visible

VOLCAM Volcanic Ash Monitor

WCRP World Climate Research Programme