

Appendix C

Glossary, Acronyms, Symbols & Abbreviations

3-D	Three-dimensional
ACD	Atmospheric Chemistry Division
AERONET	Aerosol RObotic NETwork
AgRISTARS	Agriculture and Resources Inventory Surveys through Aerospace Remote Sensing
AI	Aerosol Index
AOD	Aerosol Optical Depths
ASOS	Automated Surface Observation Stations
ATSR	Along Track Scanning Radiometer
AVHRR	Advanced Very High Resolution Radiometer
AWN	Automated Weather Network
BC	Boundary Conditions
BELD3	Biogenic Emissions Land Use Database version 3
CAAA	Clean Air Act and its Amendments
CAM	Community Atmosphere Model
CAMx	Comprehensive Air quality Model with Extensions
CBv	Carbon Bond V
CCSP	Climate Change Science Program
CDC	Disease Control and Prevention
CEMPI	Center for Environmental Modeling for Policy Development
CENR	Committee on Environment and Natural Resources Research
CH4	Methane
CM2	Climate Model 2
CMAQ	Community Multiscale Air Quality
CMAS	Community Modeling and Analysis System

CNES	Centre National d'Etudes Spatiales
CO₂	Carbon Dioxide
CONUS	Continental United States
CTM	Chemistry Transport Modeling
DDSPL	Decision Support System to Prevent Lyme disease
DEM	Digital Elevation Models
DG	Distributed generation
DLR	German Aerospace Center (DLR) (German: Deutsches Zentrum für Luft- und Raumfahrt e.V.)
DMSP	Defense Meteorological Satellite Program
DSSs	Decision Support Systems
DSTs	Decision Support Tools
ECMWF	European Centre for Medium-Range Weather Forecasts
EPA	Environmental Protection Agency
ESMP	Earth System Modeling Framework
ESRI	Environmental Science and Research Institute
ESRL	Earth Systems Research Laboratory
ESSL	Earth and Sun Systems Laboratory
EUTMETSAT	European Organization for the Exploitation of Meteorological Satellites
FAS	Foreign Agricultural Service
GACP	Global Aerosol Climatology Project
GADS	Global Aerosol Dataset
GCM	Global Climate Model
GCTM	Global Chemistry Transport Models
GEO	Group on Earth Observations
GEOS	Goddard Earth Observing System
GEWEX	Global Energy and Water Experiment
GFDL	Geophysical Fluid Dynamics Laboratory
GhTOC	HourlyTotal Ozone Column

GIS	geographic information system
GISS	Goddard Institute for Space Studies
GLCC	Global Land Cover Characterization
GMAO	Global Modeling and Assimilation Office
GOCAT	Global Ozone Chemistry Aerosol Transport
GOES	Geostationary Environmental Operational Satellite
GOME	Global Ozone Monitoring Experiment
GsT	Geospatial Toolkit
GTCM	Global Tropospheric Chemistry Model
GTS	Global Telecommunications System
HMS	Hazard Mapping System
HOMER	Hybrid Optimization Model for Electric Renewables
IGOL	Integrated Global Observations of Land
INPE	Brazilian Spatial Institute
IPCC	Intergovernmental Panel on Climate Change
ISH	Integrated Surface Hourly
KAMM	Karlsruhe Atmospheric Mesoscale Model
kw	Kilowatt
h	Hour
m	Meter
LACIE	Large Area Crop Inventory Experiment
LULC	Land Use and Land Cover
MATCH	Model of Atmospheric Transport and Chemistry
MCIP	Metorology-Chemistry Interface Processor
MIST	Multi-Angle Imaging Spectroradiometer
MM5	Mesoscale Model Version 5
MODIS	Moderate Resolution Imaging Spectroradiometer
MOZART	Model of Ozone and Related Chemical Tracers

N₂O	Nitrous oxide
NASA	National Aeronautics and Space Administration
JPL	Jet Propulsion Laboratory
SSE	Surface meteorology and Solar Energy
USGS	US Geological Survey
NCAR	National Center for Atmospheric Research
NCAR- NCEP	National Center for Atmospheric Research-National Centers for Environmental Protection
NCDC	National Climatic Data Center
NCEP	National Centers for Environmental Prediction
NOAA	National Oceanic and Atmospheric Administration
NRC	National Research Council
NREL	National Renewable Energy Laboratory
NSTC	National Science and Technology Council
OCO	Orbiting Carbon Observatory
OMI	Ozone Monitoring Instrument
AOT	aerosol optical thickness
TOC	Total Ozone Content
P	Wind Power Density
PECAD	Production Estimate and Crop Assessment Division
CADRE	Crop Condition Data Retrieval and Evaluation system
PNNL	Pacific Northwest National Laboratory
PV	Photovoltaic
RCM	Regional Climate Model
ReGAP	Regional Gap Analysis Program
RPOs	Regional Program Organizations
SAP	Synthesis and Assessment Product
SHEDS	Stochastic Human Exposure and Dose Simulation
SIP	State Implementation Plans

SPOT	Systeme Pour L'Observation de la Terre
SRTM	Shuttle Radar Topographic Mission
SSE	Surface meteorology and Solar Energy
SSM/I	Special Sensor Microwave/Imager
SSMR	Scanning Multichannel Microwave Radiometer
STAR	Science to Achieve Results
SWERA	Solar and Wind Energy Resource Assessment
TES	Tropospheric Emission Spectrometer
TOMS	Total Ozone Mapping Spectrometer
TOMS	Total Ozone Mapping Spectrometer
TRI,	Total Risk Integrated Methodology
U.S.	United States
UIUC	Unknown Sent email to Daewon
UNC	University of North Carolina at Chapel Hill
UNEP	United Nations Environment Programme
USDA	Department of Agriculture
EROS	Earth Resources Observation Systems
USWRP	United States Weather Research Program
V	Wind Speed
WAsP	Wind Atlas Analysis and Application Program
WRAMS	Wind Resource Assessment Mapping System
WRDC	World Radiation Data Centre
WRF	Weather Research and Forecasting