

# Appendix 1

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## Acronyms

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<b>ACWT</b>	Atlantic core water temperature	<b>CDC</b>	Canadian Drought Code
<b>AGAGE</b>	Advanced Global Atmospheric Gases Experiment	<b>CERES</b>	Clouds and the Earth's Radiant Energy System
<b>AGW</b>	anthropogenic global warming	<b>CEVSA</b>	Carbon Exchanges in the Vegetation-Soil-Atmosphere System
<b>AMF</b>	<i>arbuscular mycorrhizal</i> fungi	<b>CFC</b>	chlorofluorocarbons
<b>AMO</b>	Atlantic Multidecadal Oscillation	<b>CGCM</b>	Coupled General Circulation Models
<b>AMSR</b>	Advanced Microwave Scanning Radiometer	<b>CH<sub>2</sub>ClI</b>	iodocarbon chloriodomethane
<b>APSIM</b>	Agricultural Production Systems Simulator	<b>CH<sub>3</sub>Cl</b>	methyl chloride
<b>AO/NAO</b>	Arctic Oscillation/North Atlantic Oscillation	<b>CH<sub>4</sub></b>	methane
<b>AsA</b>	ascorbic acid	<b>CH<sub>2</sub>I<sub>2</sub></b>	diiodomethane
<b>ASI</b>	aeolian sand influx	<b>CHD</b>	coronary heart disease
<b>ATLAS</b>	Airborne Thermal and Land Applications Sensor	<b>CMAP</b>	Climate Prediction Center Merged Analysis of Precipitation
<b>AVHRR</b>	Advanced Very High Resolution Radiometer	<b>CO<sub>2</sub></b>	carbon dioxide
<b>Ba</b>	barium	<b>CPR</b>	Continuous Plankton Recorder
<b>BATS</b>	Bermuda Atlantic Time-Series Study	<b>CPY</b>	Climactic Pointer Years
<b>BC2</b>	Carlsbad Cavern (New Mexico)	<b>CRF</b>	cosmic ray flux
<b>BCC</b>	Buckeye Creek Cave (West Virginia)	<b>CRII</b>	cosmic ray-induced ionization
<b>BioCON</b>	Biodiversity, Carbon Dioxide, and Nitrogen Effects on Ecosystem Functioning	<b>CRP1</b>	Core Research Project 1
<b>BIOME3</b>	Biogeochemical Model	<b>CRU</b>	Climate Research Unit
<b>BP</b>	before present	<b>CS<sub>2</sub></b>	carbon disulfide
<b>BSW</b>	bog surface wetness	<b>CSIRO</b>	Commonwealth Scientific and Industrial Research Organization (Australia)
<b>Bt</b>	<i>Bacillus thuringiensis</i>	<b>CWP</b>	Current Warm Period
<b>BYDV</b>	barley yellow dwarf virus	<b>CVD</b>	cardiovascular disease
<b>Ca</b>	calcium	<b>CZCS</b>	Coastal Zone Color Scanner
<b>CAM</b>	Crassulacean Acid Metabolism	<b>DACP</b>	Dark Ages cold period
<b>CASA</b>	Carnegie-Ames-Stanford Approach	<b>DDG</b>	dry distilled grain
<b>CBSC</b>	Carbon-based secondary compounds	<b>DGGE</b>	denaturing gradient gel electrophoresis
<b>CCN</b>	Cloud condensation nuclei	<b>DM</b>	dry matter
		<b>DMS</b>	dimethyl sulfide
		<b>DOC</b>	dissolved organic carbon

## Climate Change Reconsidered

<b>ECCO</b>	Estimating Circulation and Climate of the Ocean	<b>IMAR</b>	Inner Mongolia Autonomous Region
<b>ECMWF</b>	European Centre for Medium-Range Weather Forecasts	<b>IMR</b>	Indian Monsoon rainfall
<b>EDC96</b>	European Project for Ice Coring in Antarctica Dome C	<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>EIA</b>	Energy Information Administration (U.S.)	<b>IPCC 2007-I</b>	Intergovernmental Panel on Climate Change — Group 1 Contribution
<b>EF-Tu</b>	protein synthesis elongation factor	<b>IPCC 2007-II</b>	Intergovernmental Panel on Climate Change — Group II Contribution
<b>ENSO</b>	El Nino-Southern Oscillation	<b>IPCC 2007-II</b>	Intergovernmental Panel on Climate Change — Group III Contribution
<b>EQC</b>	eolian quartz content	<b>IPCC-FAR</b>	Intergovernmental Panel on Climate Change — First Assessment Report
<b>FACE</b>	Free-air CO <sub>2</sub> Enrichment	<b>IPCC-SAR</b>	Intergovernmental Panel on Climate Change — Second Assessment Report
<b>FACTS</b>	Forest Atmosphere Carbon Transfer and Storage	<b>IPCC-TAR</b>	Intergovernmental Panel on Climate Change — Third Assessment Report
<b>FB</b>	Foxe Basin	<b>IPCC-AR4</b>	Intergovernmental Panel on Climate Change — Fourth Assessment Report
<b>FD</b>	flux data	<b>IRD</b>	ice rafted debris
<b>GBR</b>	Great Barrier Reef	<b>ISCCP</b>	International Satellite Cloud Climatology Project
<b>GCM</b>	General Circulation Models	<b>ISM</b>	Indian Summer Monsoon
<b>GCR</b>	galactic cosmic rays	<b>ITCZ</b>	Intertropical Convergence Zone
<b>GCTE</b>	Global Change and Terrestrial Ecosystems	<b>ITS2</b>	Internal Transcribed Spacer Region 2
<b>GDP</b>	Gross Domestic Product	<b>IUCN</b>	International Union for Conservation of Nature
<b>GEI</b>	Glacier Expansion Index	<b>LBM</b>	larch budmoth
<b>GHG</b>	green house gas(es)	<b>LCA</b>	low cloud amount
<b>GIMMS</b>	Global Inventory Modeling and Mapping Studies	<b>LCLU</b>	land cover and land use
<b>GIS</b>	Greenland Ice Sheet	<b>LGM</b>	Last Glacial Maximum
<b>GISS</b>	Goddard Institute of Space Studies	<b>LIA</b>	Little Ice Age
<b>GLO-PEM</b>	Global Production Efficiency Model	<b>LST</b>	land surface temperature
<b>gNDVI</b>	Normalized Difference Vegetation Index over the Growing Season	<b>LTM</b>	long-term mean standardization
<b>GPCP</b>	Global Precipitation Climatology Project	<b>m</b>	meter
<b>gr</b>	gram(s)	<b>Ma BP</b>	million years before present
<b>GRACE</b>	Gravity Recovery and Climate Experiment	<b>MAAT</b>	mean annual air temperature
<b>GREET</b>	Greenhouse gases Regulated Emissions and Energy use in Transportation	<b>MBP</b>	mass balance potential
<b>GSH</b>	glutathione	<b>MDR</b>	main development region
<b>GSL</b>	global sea level	<b>ME</b>	surface melt
<b>HC1</b>	Hidden Cave (Guadalupe Mountains)	<b>MJ</b>	mega joule
<b>HR</b>	heterotrophic respiration	<b>MS</b>	methanesulfonate
<b>HSG</b>	hematite stained grain	<b>MSA</b>	methanesulfonic Acid
<b>IE</b>	infection efficiency	<b>MTBE</b>	methyl tertiary butyl ether

## Acronyms

<b>MWP</b>	Medieval Warm Period	<b>rDNA</b>	ribosomal deoxyribonucleic acid
<b>MXD</b>	maximum latewood density	<b>Rg</b>	solar irradiance
<b>MY</b>	multiyear	<b>ROS</b>	reactive oxygen species
<b>N<sub>2</sub>O</b>	nitrous oxide	<b>RWP</b>	Roman Warm Period
<b>NABE</b>	North Atlantic Bloom Experiment	<b>SACC</b>	Screen-Aided CO <sub>2</sub> Control
<b>NADW</b>	North Atlantic deep water	<b>SAT</b>	surface air temperature
<b>NAM</b>	Northern Annular Mode	<b>SB</b>	Southern Beaufort Sea
<b>NAO</b>	North Atlantic Oscillation	<b>SCC</b>	Swiss Canopy Crane Project
<b>NAS</b>	National Academy of Sciences	<b>SCPDSI</b>	Self-Calibrating Palmer Drought Severity Index
<b>NDVI</b>	Normalized Difference Vegetation Index	<b>SeaWiFS</b>	Sea-Viewing Wide Field-Of-View Sensor
<b>NEP</b>	net ecosystem production	<b>SEPP</b>	Science & Environmental Policy Project
<b>NIPCC</b>	Nongovernmental International Panel on Climate Change	<b>SFP</b>	South Fork Payette
<b>NMHC</b>	non-methane hydrocarbon	<b>SMB</b>	surface mass balance
<b>NPP</b>	net primary production	<b>SMR</b>	snowmelt runoff
<b>nss-SO<sub>4</sub><sup>2-</sup></b>	non-sea-salt sulfate	<b>SODA</b>	Simple Ocean Data Assimilation
<b>NWS</b>	National Weather Service	<b>SOM</b>	soil organic matter
<b>O<sub>3</sub></b>	ozone	<b>SPAR</b>	Soil-Plant-Atmosphere-Research Facility (Mississippi)
<b>OCS</b>	carbonyl sulfide	<b>SPCZ</b>	South Pacific Convergence Zone
<b>OLR</b>	outgoing longwave radiation	<b>SPM</b>	Summaries for Policymakers
<b>OM</b>	organic matter	<b>SPS</b>	sucrose-phosphate synthase
<b>OTC</b>	open-top chambers	<b>SSM/I</b>	Special Sensor Microwave Imager
<b>P</b>	precipitation	<b>SSMR</b>	Scanning Multichannel Microwave Radiometer
<b>PAL</b>	Pathfinder AVHRR [Advanced Very High Resolution Radiometer] Land	<b>SN/SSN</b>	sunspot number
<b>PDO</b>	Pacific Decadal Oscillation	<b>SST</b>	sea surface temperatures
<b>PDSI</b>	Palmer Drought Severity Index	<b>STF</b>	subtropical front
<b>PF</b>	polar front	<b>SU</b>	surface sublimation
<b>PGR</b>	post-glacial rebound	<b>SWE</b>	snow water equivalent
<b>PI</b>	potential intensity	<b>SWF</b>	shortwave flux
<b>PIZ</b>	perennial ice zone	<b>SWM</b>	Southwest Monsoon
<b>ppb</b>	parts per billion	<b>TBE</b>	tick-borne encephalitis
<b>ppm</b>	parts per million	<b>TBEV</b>	tick-borne encephalitis virus
<b>Ps</b>	solid precipitation	<b>TC</b>	tropical cyclones
<b>RACM</b>	Regional Atmospheric Climate Model	<b>Tmax</b>	maximum temperature
<b>RCC</b>	rapid climate change	<b>Tmin</b>	minimum temperature
<b>RCS</b>	regional curve standardization	<b>TMI</b>	Tropical Rainfall Measuring Mission Microwave Imager
<b>Rd</b>	ratio of diffuse	<b>T<sub>opt</sub></b>	optimum temperature
<b>Rda</b>	area-based dark respiration		
<b>Rdm</b>	mass-based dark respiration		

## Climate Change Reconsidered

<b>TP</b>	Tibetan Plateau	<b>WAIS</b>	West Antarctic Ice Sheet
<b>TRFO</b>	tropical rainforest	<b>WH</b>	Western Hudson Bay
<b>TRMM</b>	Tropical Rainfall Measuring Mission	<b>WMO</b>	World Meteorological Organization
<b>TSI</b>	total solar irradiance	<b>WNP</b>	Western North Pacific
<b>UHI</b>	urban heat island	<b>WSC</b>	water-soluble carbohydrate
<b>UNEP</b>	United Nations Environment Program	<b>WT</b>	wild type
<b>UV</b>	ultraviolet	<b>WUE</b>	water use efficiency
<b>VS</b>	vertical wind shear		