

Appendix 1

Acronyms

ACWT	Atlantic core water temperature	CASA	Carnegie-Ames-Stanford Approach
AGAGE	Advanced Global Atmospheric Gases Experiment	CBSC	Carbon-based secondary compounds
AGW	anthropogenic global warming	CCN	Cloud condensation nuclei
AMF	<i>arbuscular mycorrhizal</i> fungi	CDC	Canadian Drought Code
AMO	Atlantic Multidecadal Oscillation	CERES	Clouds and the Earth's Radiant Energy System
AMSR	Advanced Microwave Scanning Radiometer	CEVSA	Carbon Exchanges in the Vegetation-Soil-Atmosphere System
APSIM	Agricultural Production Systems Simulator	CFC	chlorofluorocarbons
AO/NAO	Arctic Oscillation/North Atlantic Oscillation	CGCM	Coupled General Circulation Models
AsA	ascorbic acid	CH₂ClI	iodocarbon chloriodomethane
ASI	aeolian sand influx	CH₃Cl	methyl chloride
ATLAS	Airborne Thermal and Land Applications Sensor	CH₄	methane
AVHRR	Advanced Very High Resolution Radiometer	CH₂I₂	diiodomethane
Ba	barium	CHD	coronary heart disease
BATS	Bermuda Atlantic Time-Series Study	CMAP	Climate Prediction Center Merged Analysis of Precipitation
BC2	Carlsbad Cavern (New Mexico)	CO₂	carbon dioxide
BCC	Buckeye Creek Cave (West Virginia)	CPR	Continuous Plankton Recorder
BioCON	Biodiversity, Carbon Dioxide, and Nitrogen Effects on Ecosystem Functioning	CPY	Climactic Pointer Years
BIOME3	Biogeochemical Model	CRII	cosmic ray-induced ionization
BP	before present	CRP1	Core Research Project 1
BSW	bog surface wetness	CRU	Climate Research Unit
Bt	<i>Bacillus thuringiensis</i>	CS₂	carbon disulfide
BYDV	barley yellow dwarf virus	CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)
Ca	calcium	CWP	Current Warm Period
CAM	Crassulacean Acid Metabolism	CVD	cardiovascular disease
		CZCS	Coastal Zone Color Scanner
		DACP	Dark Ages cold period
		DDG	dry distilled grain

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DGGE	denaturing gradient gel electrophoresis	HC1	Hidden Cave (Guadalupe Mountains)
DM	dry matter	HR	heterotrophic respiration
DMS	dimethyl sulfide	HSG	hematite stained grain
DOC	dissolved organic carbon	IE	infection efficiency
ECCO	Estimating Circulation and Climate of the Ocean	IMAR	Inner Mongolia Autonomous Region
ECMWF	European Centre for Medium-Range Weather Forecasts	IMR	Indian Monsoon rainfall
EDC96	European Project for Ice Coring in Antarctica Dome C	IPCC	Intergovernmental Panel on Climate Change
EIA	Energy Information Administration (U.S.)	IPCC 2007-I	Intergovernmental Panel on Climate Change -- Group I Contribution
EF-Tu	protein synthesis elongation factor	IPCC 2007-II	Intergovernmental Panel on Climate Change -- Group II Contribution
ENSO	El Nino-Southern Oscillation	IPCC 2007-III	Intergovernmental Panel on Climate Change -- Group III Contribution
EQC	eolian quartz content	IPCC-FAR	Intergovernmental Panel on Climate Change -- First Assessment Report
FACE	Free-air CO ₂ Enrichment	IPCC-SAR	Intergovernmental Panel on Climate Change -- Second Assessment Report
FACTS	Forest Atmosphere Carbon Transfer and Storage	IPCC-TAR	Intergovernmental Panel on Climate Change -- Third Assessment Report
FB	Foxe Basin	IPCC-AR4	Intergovernmental Panel on Climate Change -- Fourth Assessment Report
GBR	Great Barrier Reef	IPCC-AR5	Intergovernmental Panel on Climate Change -- Fifth Assessment Report
GCM	General Circulation Models	IRD	ice rafted debris
GCR	galactic cosmic rays	ISCCP	International Satellite Cloud Climatology Project
GCTE	Global Change and Terrestrial Ecosystems	ISM	Indian Summer Monsoon
GDP	Gross Domestic Product	ITCZ	Intertropical Convergence Zone
GEI	Glacier Expansion Index	ITS2	Internal Transcribed Spacer Region 2
GHG	green house gas(es)	IUCN	International Union for Conservation of Nature
GIMMS	Global Inventory Modeling and Mapping Studies	LBM	larch budmoth
GIS	Greenland Ice Sheet	LCA	low cloud amount
GISS	Goddard Institute of Space Studies	LCLU	land cover and land use
GLO-PEM	Global Production Efficiency Model	LGM	Last Glacial Maximum
gNDVI	Normalized Difference Vegetation Index over the Growing Season	LIA	Little Ice Age
GPCP	Global Precipitation Climatology Project	LST	land surface temperature
gr	gram(s)	LTM	long-term mean standardization
GRACE	Gravity Recovery and Climate Experiment	m	meter
GREET	Greenhouse gases Regulated Emissions and Energy Use in Transportation	Ma BP	million years before present
GSH	glutathione	MAAT	mean annual air temperature
GSL	global sea level		

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MBP	mass balance potential	Ps	solid precipitation
MDR	main development region	RACM	Regional Atmospheric Climate Model
ME	surface melt	RCC	rapid climate change
MJ	mega joule	RCS	regional curve standardization
MS	methanesulfonate	Rd	ratio of diffuse
MSA	methanesulfonic Acid	Rda	area-based dark respiration
MTBE	methyl tertiary butyl ether	Rdm	mass-based dark respiration
MWP	Medieval Warm Period	rDNA	ribosomal deoxyribonucleic acid
MXD	maximum latewood density	Rg	solar irradiance
MY	multiyear	ROS	reactive oxygen species
N₂O	nitrous oxide	RWP	Roman Warm Period
NABE	North Atlantic Bloom Experiment	SACC	Screen-Aided CO ₂ Control
NADW	North Atlantic deep water	SAT	surface air temperature
NAM	Northern Annular Mode	SB	Southern Beaufort Sea
NAO	North Atlantic Oscillation	SCC	Swiss Canopy Crane Project
NAS	National Academy of Sciences	SCPDSI	Self-Calibrating Palmer Drought Severity Index
NDVI	Normalized Difference Vegetation Index	SeaWiFS	Sea-Viewing Wide Field-Of-View Sensor
NEP	net ecosystem production	SEPP	Science & Environmental Policy Project
NIPCC	Nongovernmental International Panel on Climate Change	SFP	South Fork Payette
NMHC	non-methane hydrocarbon	SMB	surface mass balance
NPP	net primary production	SMR	snowmelt runoff
nss-SO₄²⁻	non-sea-salt sulfate	SODA	Simple Ocean Data Assimilation
NWS	National Weather Service	SOM	soil organic matter
O₃	ozone	SPAR	Soil-Plant-Atmosphere-Research Facility (Mississippi)
OCS	carbonyl sulfide	SPCZ	South Pacific Convergence Zone
OLR	outgoing longwave radiation	SPM	Summaries for Policymakers
OM	organic matter	SPS	sucrose-phosphate synthase
OTC	open-top chambers	SSM/I	Special Sensor Microwave Imager
P	precipitation	SSMR	Scanning Multichannel Microwave Radiometer
PAL	Pathfinder AVHRR [Advanced Very High Resolution Radiometer] Land	SN/SSN	sunspot number
PDO	Pacific Decadal Oscillation	SST	sea surface temperatures
PDSI	Palmer Drought Severity Index	STF	subtropical front
PF	polar front	SU	surface sublimation
PGR	post-glacial rebound	SWE	snow water equivalent
PI	potential intensity	SWF	shortwave flux
PIZ	perennial ice zone		
ppb	parts per billion		
ppm	parts per million		

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SWM	Southwest Monsoon	TSI	total solar irradiance
TBE	tick-borne encephalitis	UHI	urban heat island
TBEV	tick-borne encephalitis virus	UNEP	United Nations Environment Program
TC	tropical cyclones	UV	ultraviolet
Tmax	maximum temperature	VS	vertical wind shear
Tmin	minimum temperature	WAIS	West Antarctic Ice Sheet
TMI	Tropical Rainfall Measuring Mission Microwave Imager	WH	Western Hudson Bay
T_{opt}	optimum temperature	WMO	World Meteorological Organization
TP	Tibetan Plateau	WNP	Western North Pacific
TRFO	tropical rainforest	WSC	water-soluble carbohydrate
TRMM	Tropical Rainfall Measuring Mission	WT	wild type
		WUE	water use efficiency