

Appendix 1

Acronyms

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

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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 1 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-II	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
FD	flux data	IRD	ice rafted debris
GBR	Great Barrier Reef	ISCCP	International Satellite Cloud Climatology Project
GCM	General Circulation Models	ISM	Indian Summer Monsoon
GCR	galactic cosmic rays	ITCZ	Intertropical Convergence Zone
GCTE	Global Change and Terrestrial Ecosystems	ITS2	Internal Transcribed Spacer Region 2
GDP	Gross Domestic Product	IUCN	International Union for Conservation of Nature
GEI	Glacier Expansion Index	LBM	larch budmoth
GHG	green house gas(es)	LCA	low cloud amount
GIMMS	Global Inventory Modeling and Mapping Studies	LCLU	land cover and land use
GIS	Greenland Ice Sheet	LGM	Last Glacial Maximum
GISS	Goddard Institute of Space Studies	LIA	Little Ice Age
GLO-PEM	Global Production Efficiency Model	LST	land surface temperature
gNDVI	Normalized Difference Vegetation Index over the Growing Season	LTM	long-term mean standardization
GPCP	Global Precipitation Climatology Project	m	meter
gr	gram(s)	Ma BP	million years before present
GRACE	Gravity Recovery and Climate Experiment	MAAT	mean annual air temperature
GREET	Greenhouse gases Regulated Emissions and Energy use in Transportation	MBP	mass balance potential
GSH	glutathione	MDR	main development region
GSL	global sea level	ME	surface melt
HC1	Hidden Cave (Guadalupe Mountains)	MJ	mega joule
HR	heterotrophic respiration	MS	methanesulfonate
HSG	hematite stained grain	MSA	methanesulfonic Acid
IE	infection efficiency	MTBE	methyl tertiary butyl ether

Acronyms

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	SWM	Southwest Monsoon
ppb	parts per billion	TBE	tick-borne encephalitis
ppm	parts per million	TBEV	tick-borne encephalitis virus
Ps	solid precipitation	TC	tropical cyclones
RACM	Regional Atmospheric Climate Model	T_{max}	maximum temperature
RCC	rapid climate change	T_{min}	minimum temperature
RCS	regional curve standardization	TMI	Tropical Rainfall Measuring Mission Microwave Imager
Rd	ratio of diffuse	T_{opt}	optimum temperature
Rda	area-based dark respiration		
Rdm	mass-based dark respiration		

Climate Change Reconsidered

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