

Appendix 1

Acronyms

ACA	Arid Central Asia	Ca	calcium
ACIA	Arctic Climate Impact Assessment	CAM	Crassulacean Acid Metabolism
AEDI	Accumulated Effective Drought Index	CAM3.1	Community Atmosphere Model version 3
AF	airborne fraction	CCA	canonical correspondence analysis
ALT	active layer thickness	CCN	Cloud condensation nuclei
AMO	Atlantic Multidecadal Oscillation	CEDI	Corrected Effective Drought Index
AMSR	Advanced Microwave Scanning Radiometer	CEMs	climate envelope models
A/N	ammonium/nitrate	CERES	Clouds and the Earth's Radiant Energy System
AOGCM	Atmosphere-Ocean General Circulation Model	CEVSA	Carbon Exchanges in the Vegetation-Soil-Atmosphere System
AOT	aerosol optical thickness	CFC	chlorofluorocarbons
ASI	aeolian sand influx	CGCM	Coupled General Circulation Models
ATLAS	Airborne Thermal and Land Applications Sensor	CH₂ClI	iodocarbon chloriodomethane
ATZ	accumulated temperature zone	CH₃Cl	methyl chloride
AVHRR	Advanced Very High Resolution Radiometer	CH₄	methane
Ba	barium	CH₂I₂	diiodomethane
BAI	basal area increment	CHD	coronary heart disease
BioCON	Biodiversity, Carbon Dioxide, and Nitrogen Effects on Ecosystem Functioning	CLEH	climate-linked epidemic hypothesis
BP	before present	CMIP3	Coupled Model Intercomparison Project Phase 3
BTV	bluetongue virus	CO₂	carbon dioxide
BVOC	biogenic volatile organic compound	C/P	carbon/phosphorus
C4MIP	Coupled Carbon Cycle Climate Model Intercomparison Project	CRF	cosmic ray flux
		CS₂	carbon disulfide
		CSRM	cloud system-resolving models
		CVD	cardiovascular disease
		DACP	Dark Ages cold period

DGGE	denaturing gradient gel electrophoresis	HKO	Hong Kong Observatory of China
DIC	dissolved inorganic carbon	HSP	heat-shock protein
DOC	dissolved organic carbon		
DSE	dark septate root endophytic	IHD	ischemic heart disease
DSF	dust storm frequency	IMAR	Inner Mongolia Autonomous Region
DTR	diurnal temperature range	IMP	Internal Multidecadal Pattern
		IPCC	Intergovernmental Panel on Climate Change
EDI	Effective Drought Index	IPCC 2007-I	Intergovernmental Panel on Climate Change — Group 1 Contribution
EESC	effective stratospheric chlorine concentrations	IPCC 2007-II	Intergovernmental Panel on Climate Change — Group II Contribution
ENP	eastern North Pacific	IPCC 2007-III	Intergovernmental Panel on Climate Change — Group III Contribution
ENSO	El Nino-Southern Oscillation	IPCC-FAR	Intergovernmental Panel on Climate Change — First Assessment Report
EOS	Earth Observing System	IPCC-SAR	Intergovernmental Panel on Climate Change — Second Assessment Report
EROWI	energy return on water invested	IPCC-TAR	Intergovernmental Panel on Climate Change — Third Assessment Report
ET	evapotranspiration	IPCC-AR4	Intergovernmental Panel on Climate Change — Fourth Assessment Report
ETCW	early twentieth-century warming	IRD	ice rafted debris
EWUE	ecosystem water use efficiency	ISA	impervious surface area
		ITCZ	Intertropical Convergence Zone
FACE	Free-air CO ₂ Enrichment	iWUE	intrinsic water-use efficiency
FAO	Food and Agricultural Organization		
FTA	Fast Track Assessment	JTWC	Joint Typhoon Warning Center
GCE	Goddard Cumulus Ensemble	LADS	Laser Airborne Depth Sounder
GCM	General Circulation Models	LAI	leaf area index
GCR	galactic cosmic rays	LDC	least developed countries
GCTE	Global Change and Terrestrial Ecosystems	LDD	long-distance dispersal
GDH	growing degree hours	LIA	Little Ice Age
GDP	Gross Domestic Product	LIG	Last Interglacial
GHG	green house gas(es)	LST	land surface temperature
GIA	Glacial Isostatic Adjustment	LT	lower-tropospheric
GIMMS	Global Inventory Modeling and Mapping Studies	LTM	long-term mean standardization
GISS-AOM	Goddard Institute of Space Studies-Atmosphere Ocean Model	LULC	land use and land cover
gr	gram(s)		
GRACE	Gravity Recovery and Climate Experiment	m	meter
GS	glucosinolate	MCA	Medieval Climate Anomaly
GTTA	Global Tropospheric Temperature Anomalies		

Acronyms

MISR	multi-angle imaging spectroradiometer	PETM	Paleocene-Eocene Thermal Maximum
MJO	Madden-Julian Oscillation	ppb	parts per billion
MOC	meridional overturning circulation	PPB	purple phototrophic bacteria
MODIS	moderate-resolution imaging spectroradiometer	ppm	parts per million
MPI	maximum potential intensity	PR	Precipitation Radar
MSU	Microwave Sounding Unit	Ps	solid precipitation
MWP	Medieval Warm Period		
MXD	maximum latewood density	RATPAC	Radiosonde Atmospheric Temperature Products for Assessing Climate
		RCM	regional climate model
N₂O	nitrous oxide	RCS	regional curve standardization
NAO	North Atlantic Oscillation	RERCA	recent rate of carbon accumulation
NAOI	North Atlantic Oscillation Index	R_g	solar irradiance
NAS	National Academy of Sciences	RKC	red king crab (<i>Paralithodes camtschaticus</i>)
NC	neutron count	RMF	root mass fraction
NCEP	National Center for Environmental Prediction	RMSE	root mean square of errors
NDVI	Normalized Difference Vegetation Index	ROS	reactive oxygen species
NEE	net ecosystem CO ₂ exchange	RSMC	Regional Specialized Meteorological Center
NHL	Northern High Latitude		
NIO	North Indian Ocean	SAM	Southern Hemisphere Annular Mode
NIPCC	Nongovernmental International Panel on Climate Change	SAMS	South American Monsoon System
NMHC	non-methane hydrocarbon	SAT	surface air temperature
NPP	net primary production	SCM	single-column models
Nr	reactive nitrogen	SCSMEX	South China Sea Monsoon Experiment
NSC	nonstructural carbohydrates	SDS	sudden death syndrome
nss-SO₄²⁻	non-sea-salt sulfate	SET	surface elevation table
NWAUS	northwest Australia	SLP	sea-level pressure
		SLR	sea-level rise
O₃	ozone	SMB	surface mass balance
OECD	Organization for Economic Cooperation and Development	SMBR	Sierra de Manantlan Biosphere Reserve
OTC	open-top chambers	SN	sunspot number
		SO	Southern Ocean
P	precipitation	SOC	soil organic carbon
PALSEA	Paleo Sea Level Working Group	SOI	Southern Oscillation Index
PDI	power dissipation index	SOM	soil organic matter
PDMT	present-day surface mass trend	SoyFACE	soybean free-air CO ₂ -enrichment
PDSI	Palmer Drought Severity Index	SR	Scaling Ratio
PeECE	Pelagic Ecosystem CO ₂ Enrichment	SN/SSN	sunspot number
		SST	sea surface temperatures

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STI	Shanghai Typhoon Institute	UHI	urban heat island
STD	standardization	UNEP	United Nations Environment Program
SWS	sea water salinity	UV	ultraviolet
TBAR	thiobarbituric acid reactive substances	WAIS	West Antarctic Ice Sheet
TC	tropical cyclones	WCRP	World Climate Research Program
TEM	Terrestrial Ecosystem Model	WEG	western English Channel
Tmax	maximum temperature	WG	Wendell Gyre
Tmin	minimum temperature	WNP	Western North Pacific
TMI	Tropical Rainfall Measuring Mission Microwave Imager	XUAR	Xinjiang Uygur Autonomous Region
TN	total nitrogen	XRD	X-ray diffraction
TOA	top of the atmosphere	YAEDI	Year-Accumulated Effective Drought Index
TRMM	Tropical Rainfall Measuring Mission		
TWE	Thermal Wind Equation		