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Long-Term Trends in Ecological Systems: A Basis for Understanding Responses to Global Change



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Appendix 27. Stations and length of record for each precipitation or surface water chemistry variable by site

(Sites grouped by ecosystem type.)

Site code	Variable ¹	Station	Start	End
Alpine and arctic				
ARC	PPT: concentration	Toolik Lake Field Station	1989	2003
	PPT: deposition: ammonium, nitrate		1988	2003
	Stream: ammonium	Kuparuk River	1990	2006
	Stream: nitrate		1990	2005
GLA	PPT: concentration, deposition	NADP Station WY00, Snowy Range, WY	1986	2008
LVW	PPT: concentration, deposition	NADP Station CO98, Rocky Mountain National Park, Loch Vale, CO	1984	2008
	Stream	Loch Outlet	1992	2006
MCM	Lake: ammonium, nitrate	East Lake Bonney	1993	2007
	Lake: calcium, chloride, sulfate		1993	2006
NWT	Lake: ammonium	Green Lake 4	1993	2006
	Lake: calcium, sulfate		1982	2006
	Lake: chloride, nitrate		1985	2006
	PPT: concentration, deposition	NADP Station CO02, Niwot Saddle	1984	2008
Aridlands				
JRN	PPT: concentration, deposition	LTER Weather Station	1984	2008
RCE	PPT: concentration, deposition	NADP Station ID11, Reynolds Creek, ID	1984	2008
WGE	PPT: concentration, deposition	NADP Station AZ98, Chiricahua, AZ	2000	2008
Coastal				
CCE	Coastal water: nitrate	Ohman Region: subset of CalCOFI stations inshore and nearshore in the Southern California Bight region; CalCOFI lines 80-93, stations from shore offshore to station 70	1984	2005
FCE	Coastal water: ammonium, nitrate	Taylor Slough/Panhandle Site 6a	2002	2007
	PPT: concentration, deposition	NADP Station FL11, Everglades National Park Research Center, FL	1982	2008
GCE	PPT: concentration, deposition	NADP Station GA33, Sapelo Island, GA	2004	2008

Appendix 27. Stations and length of record for each precipitation or surface water chemistry variable by site—Continued

Site code	Variable ¹	Station	Start	End
PAL	Coastal water: ammonium	Palmer Station B	1995	2006
	Coastal water: nitrate		1994	2007
PIE	PPT: concentration, deposition	NADP Station MA13, East, MA	1982	2008
	Stream: ammonium, nitrate	Ipswich Dam	1994	2003
SBC	Coastal water: ammonium	Arroyo Quemado Reef, Santa Barbara Channel	2002	2007
	Coastal water: nitrate		2001	2007
VCR	Coastal water: ammonium, nitrate	Phillips Creek Mouth	1992	2007
	PPT: concentration, deposition	Oyster, VA at LTER Lab in Shirley House, Rt 600 and GATR Tract	1990	2007
Eastern forests				
BEN	PPT: concentration, deposition	NADP Station NC45, Mt. Mitchell, NC	1985	2008
CRO	PPT: concentration, deposition	NADP Station AR02, Warren 2WSW	1983	2008
CWT	PPT: concentration, deposition	NADP Station NC25, Coweeta, NC	1979	2008
FER	PPT: concentration, deposition	NADP Station WV18, Parsons, WV	1979	2008
	Stream: calcium, nitrate, sulfate	Watershed 4	1980	2006
	Stream: chloride		1988	2006
HBR	PPT: concentration, deposition	NADP Station NH02, Hubbard Brook, NH	1979	2008
	Stream: ammonium	Watershed 6	1967	2005
	Stream: calcium		1964	2005
	Stream: chloride, nitrate, sulfate		1965	2005
HFR	PPT: concentration, deposition	NADP Station MA08, Quabbin Reservoir, MA	1985	2008
LUQ	PPT: concentration, deposition	NADP Station PR20, El Verde, PR	1986	2008
	Stream: except sulfate	Quebrada Bisley 3 Cuenca	1986	2007
	Stream: sulfate		1986	2002
MAR	PPT: concentration, deposition	NADP Station MN16, Marcell Experimental Forest, MN	1979	2008
NTL	Lake: ammonium, nitrate	Sparkling Lake	1984	2007
	Lake: calcium, chloride, sulfate		1982	2007
SAN	PPT: concentration, deposition	NADP Station WI36, Trout Lake, WI	1980	2008
	PPT: concentration, deposition	NADP Station SC06, Santee National Wildlife Refuge, SC	1985	2008
TAL	PPT: concentration, deposition	NADP Station MS30, Coffeeville, MS	1985	2008

Appendix 27. Stations and length of record for each precipitation or surface water chemistry variable by site—Continued

Site code	Variable ¹	Station	Start	End
WBW	PPT: concentration, deposition Stream	NADP Station TN00, Walker Branch Watershed, TN West Fork of Walker Branch Watershed	1981 1989	2008 2005
Temperate grasslands and savannas				
CDR	PPT: concentration, deposition	NADP Station MN01, Cedar Creek, MN	1997	2008
GRL	PPT: concentration, deposition	NADP Station OK17, Kessler Farm Field Laboratory, OK	1984	2006
KBS	PPT: concentration, deposition Stream	NADP Station MI26, Kellogg Biological Station, MI Augusta Creek	1980 1998	2008 2008
KNZ	PPT: concentration, deposition Stream: ammonium Stream: nitrate	NADP Station KS31, Konza Prairie, KS N04D	1983 1989 1985	2008 2004 2004
SGS	PPT: concentration, deposition	NADP Station CO22, Pawnee, CO	1980	2008
Urban				
BES	PPT: Concentration PPT: deposition: calcium, chloride PPT: deposition: ammonium, nitrate, sulfate	NADP Station MD13, Wye, MD CASTNET Station BEL116, Beltsville, MD	1984 1984 1989	2008 2008 2006
CAP	Stream: chloride, nitrate, sulfate PPT: concentration PPT: deposition: ammonium, chloride, nitrate PPT: deposition: sulfate Stream	USGS Station #01589180, Gwynns Falls at Glyndon, MD Lost Dutchman State Park Deposition Site Lower Salt River	1999 1999 2000 2000 1998	2008 2007 2005 2003 2008
Western forests				
AND	PPT: concentration except sulfate PPT: deposition except sulfate PPT: concentration, deposition: sulfate Stream: ammonium, calcium, nitrate	NADP Station OR10, H. J. Andrews Experimental Forest, OR Watershed 2	1981 1981 1985 1982	2008 2008 2008 2006

Appendix 27. Stations and length of record for each precipitation or surface water chemistry variable by site—Continued

Site code	Variable ¹	Station	Start	End
AND	Stream: chloride		1990	2006
	Stream: sulfate		1991	2006
BLA	PPT: concentration, deposition	NADP Station CA96, Lassen Volcanic National Park Manzanita Lake	2000	2008
BNZ	PPT: concentration	NADP Station AK01, Poker Creek	1994	2008
	PPT: deposition except ammonium		1993	2008
CSP	PPT: concentration, deposition	NADP Station CA45, Hopland, CA	1980	2007
FRA	PPT: concentration, deposition	NADP Station CO02, Niwot Saddle	1984	2008
PRI	PPT: concentration, deposition	NADP Station ID02, Priest River Experimental Forest, ID	2003	2007

¹ Up to five variables were measured at each station: calcium, chloride, nitrogen (ammonium and nitrate), and sulfur (sulfate). When the elements are not specified, concentration or deposition of all five elements is given. When the elements are specified, concentration or deposition is given for the elements specified.