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



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Long-Term Trends in Ecological Systems:

Appendix 12. Regression coefficients and R² values for chloride from various sources for which linear regression against time is significant (p < 0.05)

(Sites are grouped by ecosystem type. See Appendix 27 for length of record for each station.)

Site code	Source	Slope	Y-intercept ¹	R ²
Alpine and arctic				
GLA	Precipitation (concentration)	-0.004	0.1	0.7
	Wet deposition	-0.038	1.4	0.4
LVW	Precipitation (concentration)	-0.002	0.1	0.3
	Stream	0.003	0.2	0.4
	Wet deposition	-0.026	1.1	0.3
MCM	Lake	30.382	479.8	0.3
NWT	Precipitation (concentration)	-0.003	0.1	0.5
Aridlands				
RCE	Precipitation (concentration)	-0.004	0.1	0.4
	Wet deposition	-0.010	0.4	0.4
WGE	Precipitation (concentration)	-0.006	0.2	0.5
Coastal				
PIE	Precipitation (concentration)	-0.008	0.7	0.2
Eastern forests				
CWT	Wet deposition	-0.046	3.8	0.2
FER	Precipitation (concentration)	-0.002	0.2	0.6
	Stream	-0.005	0.6	0.4
	Wet deposition	-0.032	2.0	0.5
HBR	Precipitation (concentration)	-0.003	0.2	0.2
	Stream	-0.003	0.5	0.3
MAR	Precipitation (concentration)	-0.003	0.1	0.6
	Wet deposition	-0.022	0.9	0.7
NTL	Lake	0.188	2.2	0.96
	Precipitation (concentration)	-0.002	0.1	0.5
	Wet deposition	-0.022	0.9	0.6
WBW	Precipitation (concentration)	-0.002	0.2	0.2
Temperate grasslands and savannas				
GRL	Wet deposition	-0.043	2.2	0.2
KNZ	Precipitation (concentration)	-0.002	0.1	0.3
SGS	Precipitation (concentration)	-0.003	0.1	0.6
	Wet deposition	-0.011	0.5	0.6
Urban				
BES	Precipitation (concentration)	-0.008	0.5	0.2

Appendix 12. Regression coefficients and R² values for chloride from various sources for which linear regression against time is significant (p < 0.05)—Continued

Site code	Source	Slope	Y-intercept ¹	R ²
Western forests				
BLA	Wet deposition	0.031	0.3	0.5
BNZ	Precipitation (concentration)	-0.002	0.1	0.4
	Wet deposition	-0.013	0.3	0.6
FRA	Precipitation (concentration)	-0.003	0.1	0.5

¹ Y-intercept was calculated for the first year of a dataset, which contains records of one variable over time for one site.