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APPENDIX S1. Specific details about the biotic datasets used in the CCP analysis

TABLE S1. Additional information about each biotic dataset. Full names of LTER Site abbreviations can be found in Table 1.

LTER Site	Consumer or Producer	Type of Data	Mean (±S.E.)	Sub-group, if applicable	First Year of Data	Last Year of Data	Dataset length (years)
AND	producer	species richness	10.0 ± 0.4	herbs	1962	2008	20
AND	producer	species richness	2.0 ± 0.1	shrubs	1962	2008	20
AND	producer	species richness	1.2 ± 0.1	trees	1962	2008	20
BNZ	producer	phenology	-	-	1976	2012	36
BNZ	producer	species richness	3.0 ± 1.2	-	1975	2012	37
BNZ	consumer	abundance	92 ± 15	*Dendroctonus simplex*	1975	2012	37
BNZ	consumer	abundance	450 ± 75	*Ips perturbatus*	1975	2012	37
BNZ	consumer	abundance	88 ± 15	*Dendroctonus*	1975	2012	37

				rufipennis			
CDR	producer	species richness	-	-	1982	2004	23
CDR	consumer	abundance	-	Caelifera	1989	1998	10
CDR	consumer	richness	-	Caelifera	1989	1998	10
HBR	producer	phenology	-	*Acer saccharum*	1989	2012	23
			-	*Fagus*			
HBR	producer	phenology		*grandifolia*	1989	2012	23
			-	*Betula*			
HBR	producer	phenology		*alleganiensis*	1989	2012	23
HBR	consumer	abundance	20 ± 3.1	Geometrid	1986	1997	11
HBR	consumer	abundance	5.4 ± 1.2	Noctuid	1986	1997	11
HBR	consumer	abundance	2.2 ± 0.6	Notodontid	1986	1997	11
HBR	consumer	species richness	4.9 ± 0.9	Geometrid	1986	1997	11
HBR	consumer	species richness	1.3 ± 0.2	Noctuid	1986	1997	11
HBR	consumer	species richness	0.7 ± 0.1	Notodontid	1986	1997	11
			-	several woody			
HFR	producer	phenology		species	1990	2000	10
JRN	producer	species richness	5.2 ± 0.6	fall forbs	1989	2010	20
JRN	consumer	abundance	4.6 ± 0.2	lizards	1989	2006	17
KBS	producer	species richness	29.0 ± 2.8	-	1990	2013	23
KNZ	producer	species richness	30.5 ± 1.0	-	1983	2011	28
KNZ	producer	phenology	-	woody plants	1983	2011	28
NWT	producer	species richness	23.6 ± 1.2	-	1990	2000	9
NWT	consumer	abundance	180 ± 26	rodents	1981	1990	9
NWT	consumer	species richness	8.5 ± 1.1	rodents	1981	1990	9

SEV	consumer	species richness	6.7 ± 0.4	grassland rodents	1989	2012	24
SEV	consumer	abundance	99 ± 11	grassland rodents	1989	2012	24
SEV	producer	species richness	11.5 ± 0.9	fall forbs	1989	2012	24
SGS	producer	species richness	4.6 ± 0.3	-	1975	2011	23