Supplement of Biogeosciences Discuss., 12, 1689–1719, 2015
http://www.biogeosciences-discuss.net/12/1689/2015/
doi:10.5194/bgd-12-1689-2015-supplement

Biogeosciences
Discussions
Open Access

Supplement of

Disruption of metal ion homeostasis in soils is associated with nitrogen deposition-induced species loss in an Inner Mongolia steppe

Q.-Y. Tian et al.

Correspondence to: W.-H. Zhang (whzhang@ibcas.ac.cn)

Supplement (bg-2014-599)

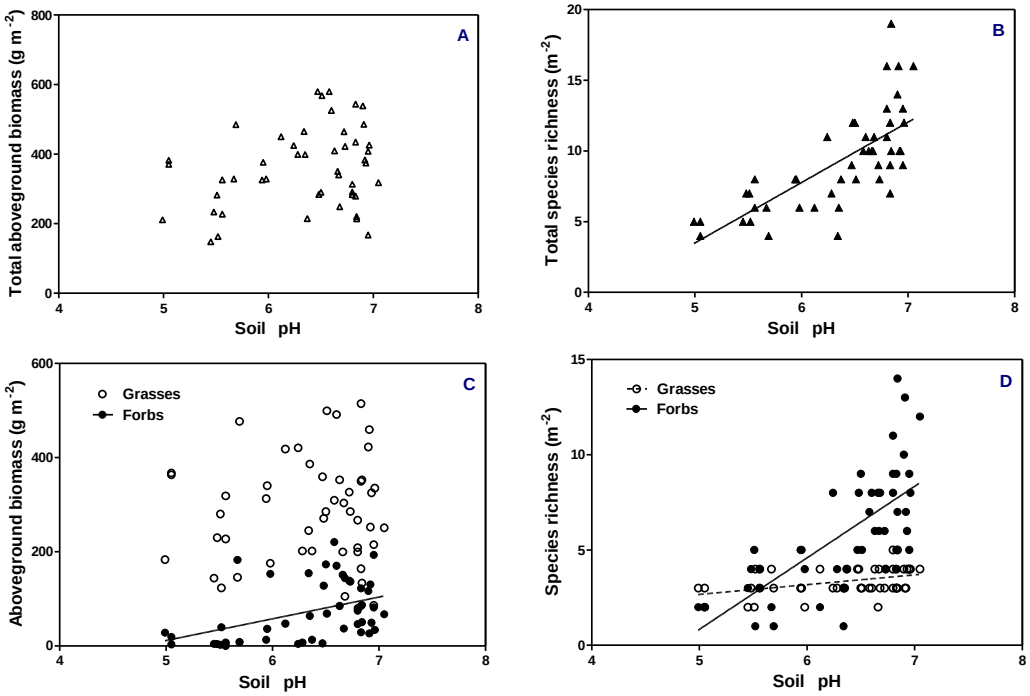

Fig. S1 Linear regression between soil pH (0-10 cm) and total aboveground biomass (A), total species richness (B) (r^2=0.53, P<0.0001), aboveground biomass (C) (forbs, r^2=0.19, P=0.0019) and species richness (D) (grasses, r^2=0.17, P=0.0034; forbs, r^2=0.49, P<0.0001).

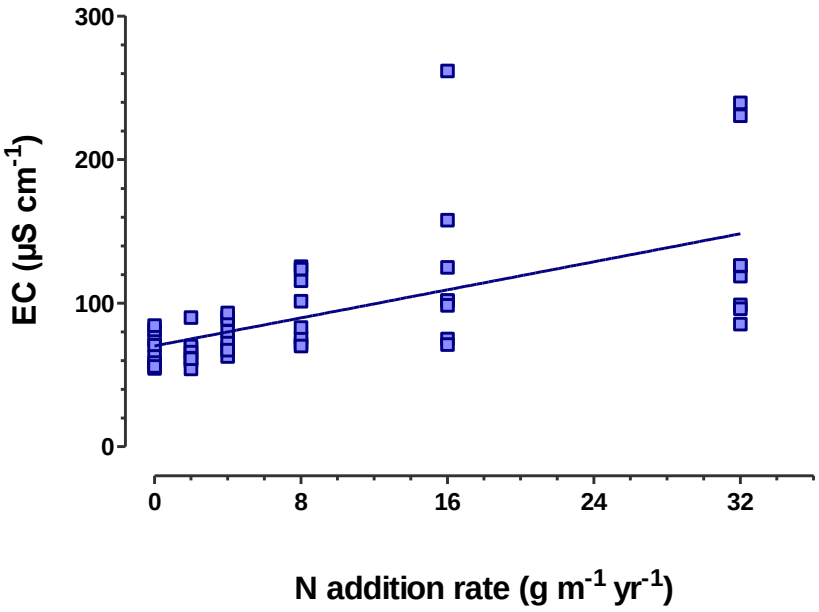

Fig. S2. Effect of N addition on soil electrical conductivity (EC) (r^2=0.36, P<0.0001).

Table S1 Pear correlation coefficients (*r*) between ion concentrations and N addition rate and soil pH (*r*>0 indicates positive correlations, *r*<0 indicates negative correlations,). * , ** and *** indicate the correlation is significant at *P*<0.05, *P*<0.01, and *P*<0.001, respectively.

Dependent variables	**Inorganic N**	**Olsen-P**	**Ca^{2+}**	**Mg^{2+}**	**K^{+}**	**Fe^{3+}**	**Mn^{2+}**	**Cu^{2+}**	**Zn^{2+}**	**Al^{3+}**
N addition	0.86 ***	0.69 ***	-0.46 **	-0.31 *	-0.11	0.92 ***	0.94 ***	0.90 ***	0.06	0.74 ***
Soil pH	-0.77 ***	-0.61 ***	0.46 ***	0.35 *	0.06	-0.85 ***	-0.9***	-0.85 ***	-0.03	-0.73 ***