



*Supplement of*

## **History of anthropogenic Nitrogen inputs (HaNi) to the terrestrial biosphere: a 5 arcmin resolution annual dataset from 1860 to 2019**

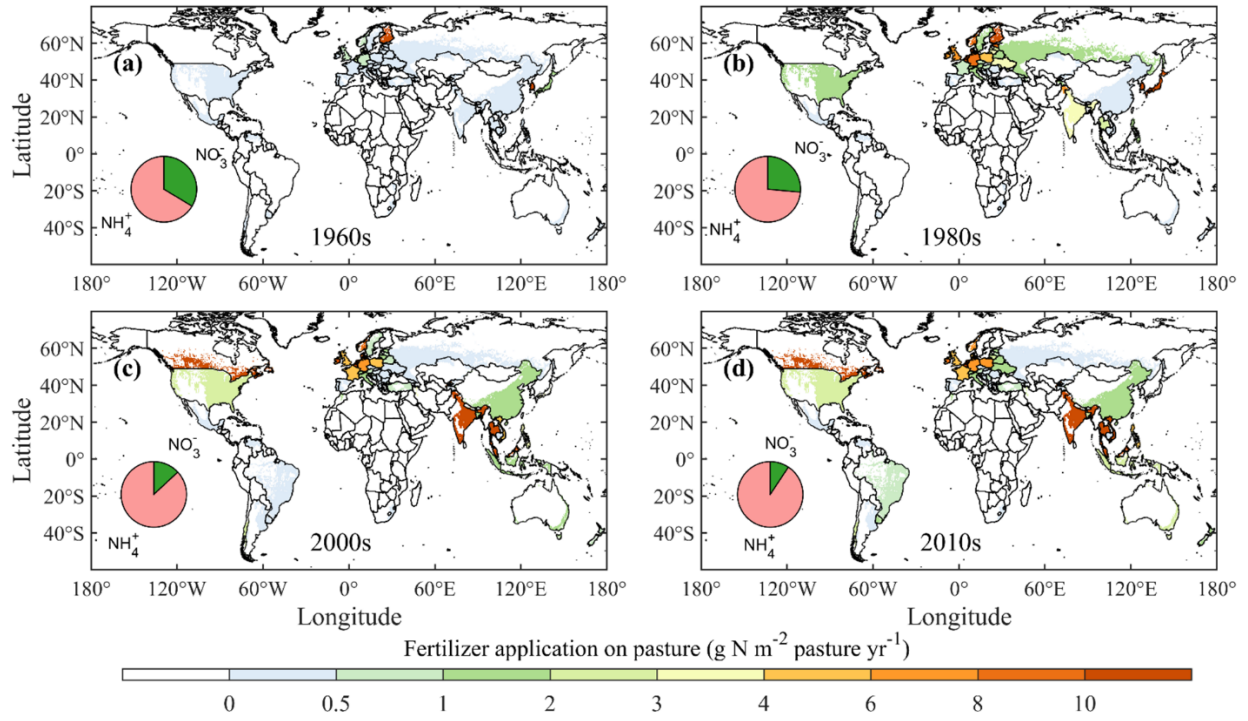
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**Table S1.** Decadal average of the area of cropland, pasture, and rangeland and the rate of fertilizer and manure additions.

Decade	Crop Area (Mkm <sup>2</sup> )	Nfer NH <sub>4</sub> Crop (gN/m <sup>2</sup> )	Nfer NO <sub>3</sub> Crop (gN/m <sup>2</sup> )	Nman App Crop (gN/m <sup>2</sup> )	Pas Area (Mkm <sup>2</sup> )	Nfer NH <sub>4</sub> Pas (gN/m <sup>2</sup> )	Nfer NO <sub>3</sub> Pas (gN/m <sup>2</sup> )	Nman App Pas (gN/m <sup>2</sup> )	Nman Dep Pas (gN/m <sup>2</sup> )	Range Area (Mkm <sup>2</sup> )	Nman Dep Ran (gN/m <sup>2</sup> )
1860s	6.21	0.00	0.00	0.41	2.69	0.00	0.00	0.37	1.46	9.79	0.21
1910s	9.38	0.01	0.01	0.70	3.94	0.00	0.00	0.56	2.50	14.78	0.43
1960s	13.66	0.86	0.44	1.09	6.24	0.03	0.02	0.58	4.32	23.85	0.87
1970s	14.10	2.00	0.86	1.22	6.76	0.18	0.11	0.61	4.55	23.96	0.97
1980s	14.55	3.25	1.17	1.34	7.29	0.41	0.23	0.62	4.69	24.49	1.00
1990s	14.85	3.80	0.98	1.36	7.66	0.53	0.23	0.56	4.83	25.04	1.03
2000s	14.95	4.70	0.71	1.38	7.80	0.74	0.17	0.51	5.08	25.03	1.10
2010s	15.69	5.58	0.58	1.42	7.90	0.94	0.14	0.52	5.47	24.68	1.16



**Figure S1.** Spatial patterns of N fertilizer application on pasture in the 1960s, 1980s, 2000s, and 2010s.