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Figure S1. Percentage of land-cover types in North America and East Asia.

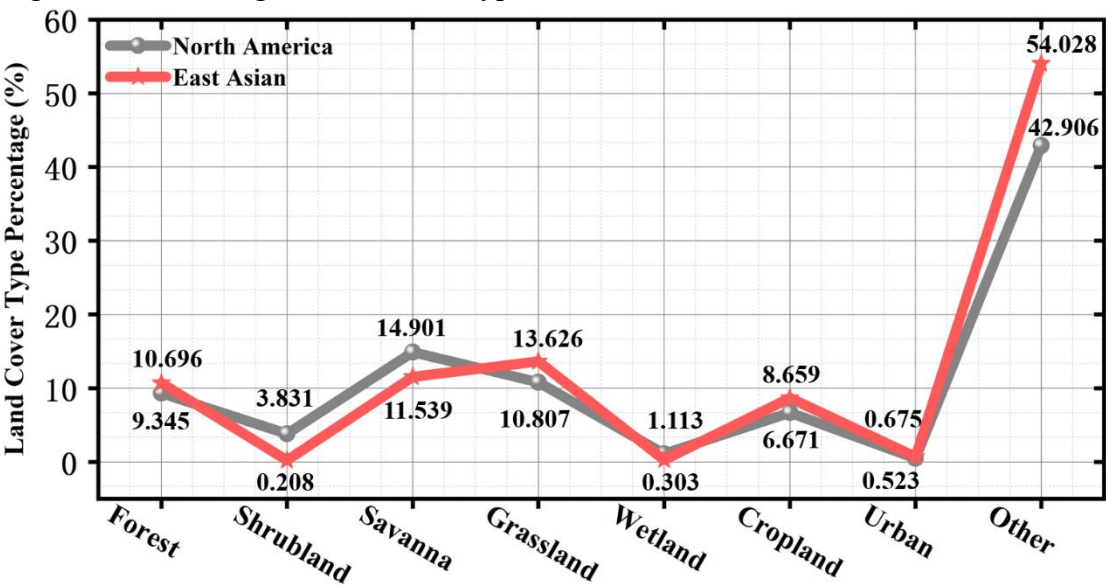


Figure S2. Monthly total DMB emissions for four land cover types in East Asia during 2018-2020, derived from GFAS and Bi-Modal and Uni-Modal estimates.

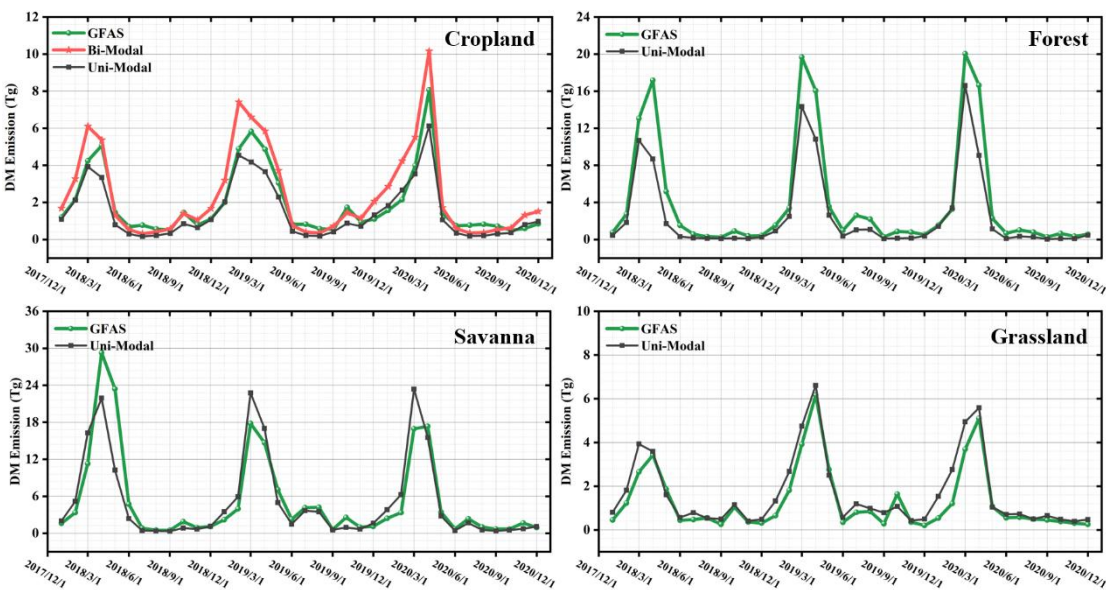


Table S1. Monthly total mass of consumed dry matter in four main land cover types over East China (unit: Tg).

	GFAS	GFED	GFED	VIIRS/AHI-	VIIRS/AHI-
	v1.2	4.1s	5	Uni	Bi
2018/1	0.217	0.085	0.089	0.446	0.777
2018/2	0.455	0.357	0.969	2.002	3.105

2018/3	0.259	0.322	0.633	1.957	3.357
2018/4	0.201	0.473	0.397	1.311	2.443
2018/5	0.307	0.667	0.481	0.852	1.695
2018/6	0.341	0.623	0.575	0.998	1.878
2018/7	0.464	1.38	0.412	0.783	1.576
2018/8	0.291	1.378	0.34	0.852	1.724
2018/9	0.119	0.243	0.208	1.055	2.04
2018/10	0.323	0.421	1.332	3.297	5.595
2018/11	0.194	0.157	0.508	1.172	2.027
2018/12	0.195	0.102	0.224	0.75	1.253
2019/1	0.362	0.327	0.641	1.698	2.66
2019/2	0.214	0.084	0.383	0.965	1.549
2019/3	0.42	0.867	1.277	3.022	5.085
2019/4	0.271	0.345	0.515	1.381	2.415
2019/5	0.348	0.405	0.599	1.307	2.551
2019/6	0.433	0.362	0.807	1.796	3.167
2019/7	0.495	0.461	0.533	0.889	1.728
2019/8	0.298	0.525	0.241	0.791	1.591
2019/9	0.106	0.172	0.277	1.388	2.58
2019/10	0.359	0.354	1.116	2.035	3.403
2019/11	0.275	0.306	0.635	1.373	2.338
2019/12	0.213	0.518	0.854	1.838	2.97
2020/1	0.218	0.113	0.262	0.638	1.028
2020/2	0.36	0.23	0.659	1.262	1.97
2020/3	0.413	0.373	0.826	2.329	4.043
2020/4	0.34	0.996	0.566	1.693	3.151
2020/5	0.359	0.497	0.835	1.028	2.016
2020/6	0.391	0.411	0.695	1.979	3.346
2020/7	0.446	0.247	0.538	0.521	1.039
2020/8	0.329	0.374	0.281	0.633	1.245

2020/9	0.134	0.075	0.236	0.87	1.756
2020/10	0.044	0.08	0.226	0.839	1.587
2020/11	0.126	0.175	0.485	1.103	1.987
2020/12	0.166	0.125	0.158	0.464	0.83
