

**Supporting information****Table S1.** Data used for Figure S1. Country, number of years considered, and source for the information on area burned.

Country	# of years	Source*	
	Area burnt	# fires	
Albania	3	3	UN
Australia	1	0	GFMC
Austria	4	4	UN
Belgium	1	1	UN
Bulgaria	9	9	Eurostat
Bhutan	4	0	GFMC
Canada	5	5	UN
Colombia	1	0	GFMC
Costa Rica	3	0	GFMC
Croatia	7	7	UN
Cyprus	9	9	UN
Czech Republic	6	6	UN
Denmark	1	1	UN
El Salvador	3	0	GFMC
Estonia	8	8	UN
Finland	9	9	UN
France	9	9	Eurostat
Germany	9	9	Eurostat
Greece	9	9	Eurostat
Guatemala	4	1	GFMC
Honduras	3	0	GFMC
Hungary	8	9	Eurostat
Italy	9	9	Eurostat
Japan	1	0	GFMC
Latvia	9	9	Eurostat
Lithuania	9	9	UN
Macedonia	3	3	UN
Mexico	3	3	GFMC
Nicaragua	3	0	GFMC
Norway	4	4	UN
Panamá	3	0	GFMC
Poland	9	9	Eurostat
Portugal	9	9	Eurostat
Puerto Rico	7	7	GFMC
Romania	9	9	Eurostat
Russia	7	7	UN
Slovakia	9	9	UN
Slovenia	9	9	UN
Spain	9	9	Eurostat
Sweden	9	9	Eurostat
Switzerland	9	9	Eurostat
Turkey	9	9	GFMC
Ukraine	1	1	UN
United Kingdom	1	1	UN
United States	9	9	NIFC

\*Sources:

Eurostat: European Commission,  
[http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=for\\_fire](http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=for_fire)UN: United Nations Economic Commission for Europe, <http://www.unece.org/forests/ff-stats.html>NIFC: National Interagency Fire Center, USA,  
[http://www.nifc.gov/fireInfo/fireInfo\\_stats\\_totalFires.html](http://www.nifc.gov/fireInfo/fireInfo_stats_totalFires.html)GFMC: Global Fire Monitoring Center,  
<http://www.fire.uni-freiburg.de>

**Table S2.** Fire activity by ecoregion. For each ecoregion we show the biome, the fire activity index (from 0 to 1), the coefficient of the monthly Fire Activity Index against the monthly maximum temperature (Coef; an indicator of the climatic sensitivity of fire), and the associated p-value. Ecoregion codes following the international nomenclature; biome codes are described in Table 1 (of the main text). NA: not available.

<b>Ecoregion</b>	<b>Biome</b>	<b>Fire Activity</b>	<b>Coef</b>	<b>pval</b>
AA0101	TrMoist	0	NA	NA
AA0102	TrMoist	0.745	0.015	0.20446
AA0103	TrMoist	0	NA	NA
AA0104	TrMoist	0.833	0.012	0.62454
AA0105	TrMoist	0.669	-0.066	0.0186
AA0106	TrMoist	0.727	0.05	0.02927
AA0107	TrMoist	0.785	-0.085	< 1e-05
AA0108	TrMoist	0.662	0.015	0.43833
AA0110	TrMoist	0.638	-0.005	0.29309
AA0111	TrMoist	0.674	0.001	0.9776
AA0112	TrMoist	0.616	-0.008	0.79536
AA0113	TrMoist	0.653	0.005	0.34568
AA0115	TrMoist	0.707	-0.01	0.69163
AA0116	TrMoist	0.436	-0.033	0.16791
AA0117	TrMoist	0.842	0.01	0.01147
AA0118	TrMoist	0.677	0.004	0.83339
AA0120	TrMoist	0.754	-0.068	< 1e-05
AA0121	TrMoist	0.765	0.038	0.01334
AA0122	TrMoist	0.7	0.029	0.08331
AA0123	TrMoist	0.767	0.105	< 1e-05
AA0124	TrMoist	0.758	0.098	0.0006
AA0125	TrMoist	0.687	-0.007	0.48737
AA0127	TrMoist	0.556	0.038	0.19955
AA0128	TrMoist	0.626	0.007	0.70231
AT0101	TrMoist	0.888	0.067	4.4e-05
AT0102	TrMoist	0.669	-0.052	4.7e-05
AT0103	TrMoist	0.959	0.037	0.00152
AT0104	TrMoist	0.656	0.039	1.7e-05
AT0105	TrMoist	0.81	-0.005	0.58705
AT0106	TrMoist	0.808	0.032	< 1e-05
AT0107	TrMoist	0.762	0.047	< 1e-05
AT0108	TrMoist	0.846	0.067	< 1e-05
AT0109	TrMoist	0.912	-0.001	0.91026
AT0110	TrMoist	0.7	0.026	0.00614
AT0111	TrMoist	0.855	0.063	< 1e-05
AT0112	TrMoist	0.889	0.039	0.00244
AT0113	TrMoist	0	NA	NA
AT0114	TrMoist	0.953	-0.016	0.06537
AT0115	TrMoist	0.721	-0.006	0.26131
AT0116	TrMoist	0.832	-0.026	< 1e-05
AT0117	TrMoist	0.794	0.018	0.01001
AT0118	TrMoist	0.898	-0.023	0.00038

AT0119	TrMoist	0.864	-0.014	0.00022
AT0120	TrMoist	0.867	-0.001	0.92859
AT0121	TrMoist	0.881	0.029	0.1545
AT0122	TrMoist	0.822	0.033	< 1e-05
AT0123	TrMoist	0.817	0.045	< 1e-05
AT0124	TrMoist	0.821	0.079	< 1e-05
AT0125	TrMoist	0.826	-0.017	0.01334
AT0126	TrMoist	0.762	0.042	< 1e-05
AT0127	TrMoist	0	NA	NA
AT0128	TrMoist	0.889	-0.019	0.02301
AT0129	TrMoist	0.763	0.028	1.9e-05
AT0130	TrMoist	0.806	0.098	< 1e-05
IM0101	TrMoist	0.579	0.027	0.03305
IM0102	TrMoist	0.793	0.168	< 1e-05
IM0103	TrMoist	0.553	0.041	0.18243
IM0104	TrMoist	0.894	0.202	< 1e-05
IM0105	TrMoist	0.769	-0.005	0.00735
IM0106	TrMoist	0.869	-0.007	0.56014
IM0107	TrMoist	0.895	0.013	0.01385
IM0108	TrMoist	0.874	0	0.99999
IM0109	TrMoist	0.968	0.014	0.00818
IM0111	TrMoist	0.792	0.005	0.02798
IM0112	TrMoist	0.758	0.019	0.12724
IM0113	TrMoist	0.802	0.042	< 1e-05
IM0114	TrMoist	0.766	-0.013	0.29391
IM0115	TrMoist	0.802	0.005	0.0929
IM0116	TrMoist	0.838	0.018	0.00048
IM0117	TrMoist	0.887	0.001	0.86236
IM0118	TrMoist	0.8	-0.005	< 1e-05
IM0119	TrMoist	0.912	0.023	0.00456
IM0120	TrMoist	0.697	0.008	0.0003
IM0121	TrMoist	0.899	0.008	0.18566
IM0122	TrMoist	0.859	-0.018	6.6e-05
IM0123	TrMoist	0.808	-0.006	0.26209
IM0124	TrMoist	0.696	0.017	0.05904
IM0125	TrMoist	0.774	-0.029	0.35885
IM0126	TrMoist	0.813	0.001	0.81991
IM0127	TrMoist	0.455	NA	NA
IM0128	TrMoist	0.729	0.011	0.46798
IM0129	TrMoist	0.709	-0.022	0.14446
IM0130	TrMoist	0.833	-0.021	0.06841
IM0131	TrMoist	0.902	0.003	0.49337
IM0132	TrMoist	0.828	0.034	< 1e-05
IM0133	TrMoist	0	NA	NA
IM0134	TrMoist	0.798	0.026	3.5e-05
IM0135	TrMoist	0.791	0.025	0.00033
IM0136	TrMoist	0.816	-0.004	0.25812
IM0137	TrMoist	0.869	-0.002	0.67406
IM0138	TrMoist	0.829	-0.003	0.45629
IM0139	TrMoist	0.893	0.012	0.03612
IM0140	TrMoist	0.736	0.013	0.00068

IM0141	TrMoist	0.712	0.003	0.1064
IM0142	TrMoist	0.678	-0.002	0.39086
IM0143	TrMoist	0.695	0.012	0.52839
IM0144	TrMoist	0.713	0.017	0.12618
IM0145	TrMoist	0.873	0.048	0.0158
IM0146	TrMoist	0.775	0.044	< 1e-05
IM0147	TrMoist	0.691	0.011	0.00326
IM0149	TrMoist	0.809	-0.006	< 1e-05
IM0150	TrMoist	0.779	0.027	7.3e-05
IM0151	TrMoist	0.789	0.039	< 1e-05
IM0152	TrMoist	0.841	-0.006	0.35077
IM0153	TrMoist	0.962	0.207	< 1e-05
IM0154	TrMoist	0.663	0.021	0.11792
IM0155	TrMoist	0.764	0.022	0.13858
IM0156	TrMoist	0.683	0.021	0.53451
IM0157	TrMoist	0.889	0.089	< 1e-05
IM0158	TrMoist	0.804	0.166	< 1e-05
IM0159	TrMoist	0.697	0.101	0.00033
IM0160	TrMoist	0.932	0.114	< 1e-05
IM0161	TrMoist	0.85	0.211	< 1e-05
IM0162	TrMoist	0.614	0.003	0.50695
IM0163	TrMoist	0.812	0.058	0.00028
IM0164	TrMoist	0.852	0.039	< 1e-05
IM0165	TrMoist	0.861	0.043	< 1e-05
IM0166	TrMoist	0.753	0.004	0.00441
IM0167	TrMoist	0.807	0.025	0.01913
IM0168	TrMoist	0.772	0.021	0.09548
IM0169	TrMoist	0.718	-0.004	0.12466
IM0170	TrMoist	0.506	NA	NA
IM0171	TrMoist	0.666	-0.002	0.39497
IM0172	TrMoist	0.758	0.005	9.0e-05
NT0101	TrMoist	0.717	0.002	0.5426
NT0102	TrMoist	0.741	0.001	0.80578
NT0103	TrMoist	0.771	0.014	0.00472
NT0104	TrMoist	0.801	0.016	0.00421
NT0105	TrMoist	0.713	0.011	0.18203
NT0106	TrMoist	0.858	0.061	< 1e-05
NT0107	TrMoist	0.742	0.097	< 1e-05
NT0108	TrMoist	0.838	0.025	0.004
NT0109	TrMoist	0.782	0.099	< 1e-05
NT0111	TrMoist	0.8	0.041	< 1e-05
NT0112	TrMoist	0.872	0.025	0.0001
NT0113	TrMoist	0.835	0.025	< 1e-05
NT0114	TrMoist	0.932	0.03	< 1e-05
NT0115	TrMoist	0.637	0.039	0.16029
NT0117	TrMoist	0.865	-0.002	0.81646
NT0118	TrMoist	0.784	0.141	< 1e-05
NT0119	TrMoist	0.825	0.068	< 1e-05
NT0120	TrMoist	0.844	-0.027	< 1e-05
NT0121	TrMoist	0.762	0.088	< 1e-05
NT0122	TrMoist	0.688	0.024	0.4332

NT0124	TrMoist	0.733	0.08	< 1e-05
NT0125	TrMoist	0.685	0.059	< 1e-05
NT0126	TrMoist	0.776	0.024	0.02542
NT0127	TrMoist	0.761	-0.025	< 1e-05
NT0128	TrMoist	0.724	0.094	< 1e-05
NT0129	TrMoist	0.739	0.034	0.02109
NT0130	TrMoist	0.822	0.134	< 1e-05
NT0131	TrMoist	0.771	-0.022	0.00184
NT0132	TrMoist	0.553	0.054	< 1e-05
NT0133	TrMoist	0.558	0.043	< 1e-05
NT0134	TrMoist	0.699	0.015	0.20863
NT0135	TrMoist	0.896	0.096	< 1e-05
NT0136	TrMoist	0.714	0.111	< 1e-05
NT0137	TrMoist	0.796	0.075	< 1e-05
NT0138	TrMoist	0.826	0.106	< 1e-05
NT0139	TrMoist	0.902	0.091	< 1e-05
NT0140	TrMoist	0.961	0.04	< 1e-05
NT0141	TrMoist	0.805	0.073	< 1e-05
NT0142	TrMoist	0.641	0.079	< 1e-05
NT0143	TrMoist	0.741	0.099	< 1e-05
NT0144	TrMoist	0.794	0.061	0.00065
NT0145	TrMoist	0.719	0.091	< 1e-05
NT0146	TrMoist	0.816	0.023	< 1e-05
NT0147	TrMoist	0.786	0.056	< 1e-05
NT0148	TrMoist	0.932	0.032	< 1e-05
NT0149	TrMoist	0.826	0.042	0.00028
NT0150	TrMoist	0.848	-0.002	0.35617
NT0151	TrMoist	0.908	0.053	< 1e-05
NT0152	TrMoist	0.826	0.043	< 1e-05
NT0153	TrMoist	0.712	-0.008	0.51393
NT0154	TrMoist	0.914	0.027	< 1e-05
NT0155	TrMoist	0.712	-0.018	0.00038
NT0156	TrMoist	0.715	0.083	< 1e-05
NT0157	TrMoist	0.813	0.101	< 1e-05
NT0158	TrMoist	0.709	0.027	0.14667
NT0159	TrMoist	0	NA	NA
NT0160	TrMoist	0.75	-0.002	0.59643
NT0161	TrMoist	0.845	0.026	2.3e-05
NT0162	TrMoist	0.968	0.011	0.24856
NT0163	TrMoist	0.562	0.07	< 1e-05
NT0164	TrMoist	0.792	0.009	0.07169
NT0165	TrMoist	0.869	0.01	0.00277
NT0166	TrMoist	0.796	0.071	< 1e-05
NT0167	TrMoist	0.796	-0.02	0.03917
NT0168	TrMoist	0.857	0.089	< 1e-05
NT0169	TrMoist	0.702	0.064	2.0e-05
NT0170	TrMoist	0.919	0.116	< 1e-05
NT0171	TrMoist	0.807	0.003	0.71729
NT0173	TrMoist	0.74	0.058	< 1e-05
NT0174	TrMoist	0.747	0.074	< 1e-05
NT0175	TrMoist	0.865	-0.002	0.86455

NT0176	TrMoist	0.845	0.008	0.00117
NT0177	TrMoist	0.727	0.007	0.1122
NT0178	TrMoist	0.775	0.016	0.56817
NT0179	TrMoist	0.439	NA	NA
NT0180	TrMoist	0.908	0.103	< 1e-05
NT0181	TrMoist	0.872	0.036	< 1e-05
NT0182	TrMoist	0.784	0.112	< 1e-05
OC0101	TrMoist	0	NA	NA
OC0102	TrMoist	0	NA	NA
OC0105	TrMoist	0.643	-0.015	0.03573
OC0106	TrMoist	0.549	-0.024	0.28541
OC0108	TrMoist	0	NA	NA
OC0110	TrMoist	0	NA	NA
OC0112	TrMoist	0	NA	NA
OC0113	TrMoist	0.616	0.018	0.15491
OC0114	TrMoist	0	NA	NA
OC0115	TrMoist	0	NA	NA
PA0101	TrMoist	0.688	-0.003	0.04427
PA0102	TrMoist	0.772	-0.006	0.0416
AA0201	TrDry	0.834	0.03	0.05048
AA0202	TrDry	0.666	-0.005	0.60006
AA0203	TrDry	0.862	-0.038	4.3e-05
AA0204	TrDry	0.867	0.02	0.10766
AT0201	TrDry	0.46	NA	NA
AT0202	TrDry	0.937	-0.031	0.00139
AT0203	TrDry	0.927	-0.005	0.35964
IM0201	TrDry	0.756	0.005	0.05213
IM0202	TrDry	0.907	-0.007	0.30659
IM0203	TrDry	0.757	0.001	0.53335
IM0204	TrDry	0.75	0.002	0.34686
IM0205	TrDry	0.818	0.004	0.32633
IM0206	TrDry	0.704	-0.003	0.10792
IM0207	TrDry	0.797	0.001	0.65972
IM0208	TrDry	0.754	0.005	0.00659
IM0209	TrDry	0.727	-0.002	0.50148
IM0210	TrDry	0.909	0.011	0.21727
IM0211	TrDry	0.818	0.002	0.50172
IM0212	TrDry	0.789	0.061	< 1e-05
NA0201	TrDry	0.792	0.012	< 1e-05
NT0201	TrDry	0.893	0.094	< 1e-05
NT0202	TrDry	0.865	0.027	< 1e-05
NT0204	TrDry	0.892	-0.008	0.06624
NT0205	TrDry	0.908	0.025	< 1e-05
NT0206	TrDry	0.699	0.006	0.39411
NT0207	TrDry	0.773	0.044	0.00021
NT0209	TrDry	0.909	0.023	0.00928
NT0210	TrDry	0.873	0.003	0.09039
NT0211	TrDry	0.953	0.039	< 1e-05
NT0212	TrDry	0.923	0.013	0.0067
NT0213	TrDry	0.895	-0.031	< 1e-05
NT0214	TrDry	0.817	-0.039	0.05365

NT0215	TrDry	0.78	-0.001	0.75406
NT0216	TrDry	0	NA	NA
NT0217	TrDry	0.953	0.024	0.00801
NT0218	TrDry	0	NA	NA
NT0219	TrDry	0.822	0.019	0.01666
NT0220	TrDry	0	NA	NA
NT0221	TrDry	0.816	0.026	0.13381
NT0222	TrDry	0.839	0.028	0.00369
NT0223	TrDry	0.753	-0.003	0.72231
NT0224	TrDry	0.799	0.124	3.6e-05
NT0225	TrDry	0.778	0.039	0.01026
NT0226	TrDry	0	NA	NA
NT0227	TrDry	0.491	NA	NA
NT0228	TrDry	0.856	0.014	2.6e-05
NT0229	TrDry	0.877	0.08	< 1e-05
NT0230	TrDry	0.904	0.053	< 1e-05
NT0232	TrDry	0.774	-0.017	0.00414
NT0233	TrDry	0.925	0.012	0.00016
NT0235	TrDry	0.934	0.027	9.4e-05
OC0201	TrDry	0.766	-0.01	0.14754
OC0202	TrDry	0.639	0.041	0.20297
IM0301	TrConif	0.805	0.009	0.00049
IM0302	TrConif	0.825	0.012	0.23433
IM0303	TrConif	0.878	0.001	0.7854
IM0304	TrConif	0	NA	NA
NA0302	TrConif	0.816	0.008	0.00777
NA0303	TrConif	0.72	0.005	0.02733
NT0301	TrConif	0.677	-0.001	0.86428
NT0302	TrConif	0	NA	NA
NT0303	TrConif	0.876	0.034	1.1e-05
NT0304	TrConif	0.82	-0.008	0.14776
NT0305	TrConif	0.852	-0.011	0.08892
NT0306	TrConif	0.854	0.022	0.04607
NT0307	TrConif	0	NA	NA
NT0308	TrConif	0.902	0.039	< 1e-05
NT0309	TrConif	0.909	0.063	< 1e-05
NT0310	TrConif	0.906	0.026	< 1e-05
AA0401	TempBroad	0	NA	NA
AA0402	TempBroad	0.834	0.007	0.00015
AA0403	TempBroad	0.395	NA	NA
AA0404	TempBroad	0.455	0.007	0.46493
AA0405	TempBroad	0.516	0.003	0.27925
AA0406	TempBroad	0.685	0.013	< 1e-05
AA0407	TempBroad	0	NA	NA
AA0408	TempBroad	0.602	-0.003	0.46146
AA0409	TempBroad	0.798	0.013	< 1e-05
AA0410	TempBroad	0.463	NA	NA
AA0411	TempBroad	0.736	0.007	0.05145
AA0412	TempBroad	0.787	0.009	0.03956
AA0413	TempBroad	0.746	0.015	0.00682
AA0414	TempBroad	0.449	NA	NA

IM0401	TempBroad	0.732	-0.009	3.8e-05
IM0402	TempBroad	0.75	0.004	0.0671
IM0403	TempBroad	0.717	0.003	0.04578
NA0401	TempBroad	0.555	0.005	6.5e-05
NA0402	TempBroad	0.72	0.008	< 1e-05
NA0403	TempBroad	0.697	0.007	< 1e-05
NA0404	TempBroad	0.688	0.007	< 1e-05
NA0405	TempBroad	0.754	0.002	0.02676
NA0406	TempBroad	0.564	0.002	0.15008
NA0407	TempBroad	0.518	-0.002	0.17536
NA0408	TempBroad	0.517	-0.001	0.54344
NA0409	TempBroad	0.804	0.007	< 1e-05
NA0410	TempBroad	0.459	0.002	0.03608
NA0411	TempBroad	0.613	0.006	< 1e-05
NA0412	TempBroad	0.781	0.005	< 1e-05
NA0413	TempBroad	0.78	0.005	< 1e-05
NA0414	TempBroad	0.661	0.01	< 1e-05
NA0415	TempBroad	0.628	0.003	0.05372
NA0416	TempBroad	0.595	0.003	0.03101
NA0417	TempBroad	0.732	0.003	0.14892
NT0402	TempBroad	0.439	0.015	0.02092
NT0404	TempBroad	0.706	0.018	< 1e-05
PA0401	TempBroad	0.599	0.004	0.03737
PA0402	TempBroad	0.591	0.012	< 1e-05
PA0403	TempBroad	0	NA	NA
PA0404	TempBroad	0.801	0.013	< 1e-05
PA0405	TempBroad	0.571	0.006	0.00285
PA0406	TempBroad	0.824	0.011	4.9e-05
PA0407	TempBroad	0.71	0.012	< 1e-05
PA0408	TempBroad	0.707	0.007	< 1e-05
PA0409	TempBroad	0.566	0.002	0.45382
PA0410	TempBroad	0.761	0.008	< 1e-05
PA0411	TempBroad	0.699	0.006	< 1e-05
PA0412	TempBroad	0.739	0.012	< 1e-05
PA0413	TempBroad	0.734	0.005	0.00024
PA0414	TempBroad	0.693	0.002	0.11482
PA0415	TempBroad	0.781	0.007	< 1e-05
PA0416	TempBroad	0.787	0.007	< 1e-05
PA0417	TempBroad	0.61	0.007	< 1e-05
PA0418	TempBroad	0.711	0.004	0.0344
PA0419	TempBroad	0.845	0.014	< 1e-05
PA0420	TempBroad	0.749	0.011	< 1e-05
PA0421	TempBroad	0.54	0.002	0.19635
PA0422	TempBroad	0.61	0.004	3.9e-05
PA0423	TempBroad	0.639	0.006	1.4e-05
PA0424	TempBroad	0.82	0.011	< 1e-05
PA0425	TempBroad	0.762	0.007	0.30101
PA0426	TempBroad	0.8	0.004	< 1e-05
PA0427	TempBroad	0.673	0.007	< 1e-05
PA0428	TempBroad	0.676	0.007	< 1e-05
PA0429	TempBroad	0.569	0.012	0.31874



PA0430	TempBroad	0.71	0.003	0.00021
PA0431	TempBroad	0.737	0.009	< 1e-05
PA0432	TempBroad	0.75	0.01	< 1e-05
PA0433	TempBroad	0.632	-0.002	0.34413
PA0434	TempBroad	0.623	0.004	0.00468
PA0435	TempBroad	0.708	0.005	1.9e-05
PA0436	TempBroad	0.732	0.006	0.02699
PA0437	TempBroad	0.668	0.01	< 1e-05
PA0438	TempBroad	0.504	-0.001	0.60582
PA0439	TempBroad	0.779	0.009	< 1e-05
PA0440	TempBroad	0.692	0.007	< 1e-05
PA0441	TempBroad	0.709	0.002	0.02434
PA0442	TempBroad	0.385	-0.001	0.24268
PA0443	TempBroad	0.809	-0.001	0.70942
PA0444	TempBroad	0.833	0.009	< 1e-05
PA0445	TempBroad	0.585	0.014	< 1e-05
PA0446	TempBroad	0.735	0.008	< 1e-05
IM0501	TempConif	0.722	-0.005	0.00086
IM0502	TempConif	0.771	0.004	0.00826
NA0501	TempConif	0.657	0.006	0.00315
NA0502	TempConif	0.669	-0.002	0.02773
NA0503	TempConif	0.802	0.009	< 1e-05
NA0504	TempConif	0.697	0.002	0.05671
NA0505	TempConif	0.789	0.009	< 1e-05
NA0506	TempConif	0.562	0.006	0.00822
NA0507	TempConif	0.825	0.014	< 1e-05
NA0508	TempConif	0.795	0.014	< 1e-05
NA0509	TempConif	0.632	0.003	0.07184
NA0510	TempConif	0.727	-0.001	0.84053
NA0511	TempConif	0.702	0.006	< 1e-05
NA0512	TempConif	0.765	0.002	0.16576
NA0513	TempConif	0.853	0.001	0.72106
NA0514	TempConif	0.762	0.001	0.46828
NA0515	TempConif	0.463	NA	NA
NA0516	TempConif	0.848	0.013	< 1e-05
NA0517	TempConif	0.778	0.004	< 1e-05
NA0518	TempConif	0.773	0.011	< 1e-05
NA0519	TempConif	0.699	0.003	0.49955
NA0520	TempConif	0.494	0.022	0.12472
NA0521	TempConif	0.541	0.001	0.70942
NA0522	TempConif	0.787	0.004	0.03524
NA0523	TempConif	0.831	0.008	< 1e-05
NA0524	TempConif	0.625	0.006	1.4e-05
NA0525	TempConif	0	NA	NA
NA0526	TempConif	0.73	0.013	0.08665
NA0527	TempConif	0.838	0.012	< 1e-05
NA0528	TempConif	0.788	0.011	< 1e-05
NA0529	TempConif	0.838	-0.001	0.28105
NA0530	TempConif	0.721	0.005	< 1e-05
PA0501	TempConif	0.612	0.007	< 1e-05
PA0502	TempConif	0.575	0.004	0.0223

PA0503	TempConif	0.578	-0.002	0.67138
PA0504	TempConif	0.622	0.001	0.30278
PA0505	TempConif	0.804	0.002	0.15112
PA0506	TempConif	0.432	-0.001	0.42343
PA0507	TempConif	0.645	0.006	< 1e-05
PA0508	TempConif	0.649	0	0.52402
PA0509	TempConif	0.675	-0.002	0.30873
PA0510	TempConif	0.593	0.007	6.9e-05
PA0511	TempConif	0.558	0	0.86841
PA0512	TempConif	0.888	0.012	0.24693
PA0513	TempConif	0.8	0.017	< 1e-05
PA0514	TempConif	0.593	0	0.74054
PA0515	TempConif	0.672	0.006	0.00161
PA0516	TempConif	0.666	-0.002	0.26904
PA0517	TempConif	0.402	-0.004	0.71988
PA0518	TempConif	0.555	-0.003	0.06217
PA0519	TempConif	0.716	0.005	0.01986
PA0520	TempConif	0.549	-0.005	0.02337
PA0521	TempConif	0.683	0.001	0.55595
NA0601	Taiga	0.325	NA	NA
NA0602	Taiga	0.647	0.003	0.26865
NA0603	Taiga	0.634	0.04	0.28171
NA0604	Taiga	0.674	NA	NA
NA0605	Taiga	0.606	0.012	0.01159
NA0606	Taiga	0.582	0.018	0.03253
NA0607	Taiga	0.79	0.023	< 1e-05
NA0608	Taiga	0.69	0.008	< 1e-05
NA0609	Taiga	0.721	0.013	< 1e-05
NA0610	Taiga	0.662	0.006	< 1e-05
NA0611	Taiga	0	NA	NA
NA0612	Taiga	0.674	0.034	0.00012
NA0613	Taiga	0.642	0.014	0.00035
NA0614	Taiga	0.637	0.022	0.00112
NA0615	Taiga	0	NA	NA
NA0616	Taiga	0.643	0.016	0.00324
NA0617	Taiga	0.737	0.022	0.05686
PA0601	Taiga	0.752	0.011	< 1e-05
PA0602	Taiga	0.44	NA	NA
PA0603	Taiga	0.619	0.005	0.04915
PA0604	Taiga	0.699	0.004	0.02808
PA0605	Taiga	0.733	0.013	< 1e-05
PA0606	Taiga	0.762	0.007	0.00035
PA0607	Taiga	0.695	0.005	0.07967
PA0608	Taiga	0.577	0.008	0.00118
PA0609	Taiga	0.858	0.004	0.10807
PA0610	Taiga	0.569	0.004	0.0099
PA0611	Taiga	0.701	0.013	< 1e-05
AA0701	TrGrass	0.974	-0.026	0.0008
AA0702	TrGrass	0.875	0.008	< 1e-05
AA0703	TrGrass	0.951	0.004	0.67292
AA0704	TrGrass	0.912	0	0.95643

AA0705	TrGrass	0.888	0.011	0.00503
AA0706	TrGrass	0.949	-0.008	0.02433
AA0707	TrGrass	0.808	0.015	< 1e-05
AA0708	TrGrass	0.861	0.054	0.00048
AA0709	TrGrass	0.922	0.007	0.01151
AT0701	TrGrass	0.941	-0.017	0.14881
AT0702	TrGrass	0.797	-0.001	0.81406
AT0704	TrGrass	0.969	0.026	0.04638
AT0705	TrGrass	1	0.048	< 1e-05
AT0706	TrGrass	0.928	0	0.96665
AT0707	TrGrass	0.959	0.044	6.6e-05
AT0708	TrGrass	0.924	-0.014	0.01207
AT0709	TrGrass	0.83	-0.003	0.46033
AT0710	TrGrass	0.879	-0.015	< 1e-05
AT0711	TrGrass	0.788	0.034	7.3e-05
AT0712	TrGrass	0.984	0.086	< 1e-05
AT0713	TrGrass	0.821	-0.027	< 1e-05
AT0714	TrGrass	0.866	-0.053	< 1e-05
AT0715	TrGrass	0.613	0.013	0.08703
AT0716	TrGrass	0.862	-0.027	0.00539
AT0717	TrGrass	0.829	-0.006	0.02487
AT0718	TrGrass	0.942	0.083	< 1e-05
AT0719	TrGrass	0.917	-0.013	0.03332
AT0721	TrGrass	0.886	0.058	< 1e-05
AT0722	TrGrass	0.935	-0.035	< 1e-05
AT0723	TrGrass	0.924	0.13	< 1e-05
AT0724	TrGrass	0.945	-0.016	0.00508
AT0725	TrGrass	0.906	-0.011	0.00957
AT0726	TrGrass	0.932	-0.015	0.00516
IM0701	TrGrass	0.82	0.008	0.00027
NA0701	TrGrass	0.795	0.001	0.13397
NT0702	TrGrass	0.942	0.035	< 1e-05
NT0703	TrGrass	0.83	0.002	0.75734
NT0704	TrGrass	0.896	0.017	0.00024
NT0707	TrGrass	0.866	0.091	< 1e-05
NT0708	TrGrass	0.92	0.001	0.48456
NT0709	TrGrass	0.939	0.061	< 1e-05
NT0710	TrGrass	0.685	0.005	0.00082
OC0701	TrGrass	0.751	0.012	0.23154
OC0702	TrGrass	0	NA	NA
AA0801	TempGrass	0.617	0.009	9.2e-05
AA0802	TempGrass	0.755	0.006	< 1e-05
AA0803	TempGrass	0.756	0.003	0.00407
AT0801	TempGrass	0.556	0.005	0.01532
NA0801	TempGrass	0.805	0.005	< 1e-05
NA0802	TempGrass	0.707	0.007	< 1e-05
NA0803	TempGrass	0.732	0.005	< 1e-05
NA0804	TempGrass	0.749	0.002	0.02881
NA0805	TempGrass	0.673	0	0.78321
NA0806	TempGrass	0.771	0.002	0.09799
NA0807	TempGrass	0.874	-0.001	0.46532

NA0808	TempGrass	0.698	0.004	0.00515
NA0809	TempGrass	0.557	-0.002	0.17305
NA0810	TempGrass	0.692	0.002	0.21685
NA0811	TempGrass	0.638	0.009	< 1e-05
NA0812	TempGrass	0.762	0.002	0.25229
NA0813	TempGrass	0.788	0.007	< 1e-05
NA0814	TempGrass	0.712	0.004	< 1e-05
NA0815	TempGrass	0.657	0.002	0.00032
NT0801	TempGrass	0.798	0.008	< 1e-05
NT0802	TempGrass	0.771	0.011	< 1e-05
NT0803	TempGrass	0.723	0.008	< 1e-05
NT0805	TempGrass	0.566	0.011	< 1e-05
PA0801	TempGrass	0.783	0.008	< 1e-05
PA0802	TempGrass	0.808	0.001	0.63155
PA0803	TempGrass	0.748	0.003	0.05512
PA0804	TempGrass	0.832	0.003	0.07207
PA0805	TempGrass	0.629	0.006	< 1e-05
PA0806	TempGrass	0.743	0.002	0.18024
PA0808	TempGrass	0.722	0.01	< 1e-05
PA0809	TempGrass	0.85	0.007	0.00015
PA0810	TempGrass	0.835	0.011	< 1e-05
PA0811	TempGrass	0.8	0.001	0.4615
PA0812	TempGrass	0.735	0.009	< 1e-05
PA0813	TempGrass	0.66	0.004	< 1e-05
PA0814	TempGrass	0.862	0.012	< 1e-05
PA0815	TempGrass	0.794	0.007	0.00122
PA0816	TempGrass	0.731	0.001	0.59045
PA0817	TempGrass	0.847	0.005	0.00167
PA0818	TempGrass	0.767	0.005	0.00074
AT0901	FlGrass	0	NA	NA
AT0902	FlGrass	0.702	-0.015	0.20594
AT0903	FlGrass	0.844	0.001	0.69023
AT0904	FlGrass	0.913	-0.002	0.22328
AT0905	FlGrass	0.998	0.051	< 1e-05
AT0906	FlGrass	0.931	0.016	0.0049
AT0907	FlGrass	0.961	-0.007	0.24626
AT0908	FlGrass	0.785	-0.001	0.71591
IM0901	FlGrass	0.598	-0.002	0.35923
NT0902	FlGrass	0.84	-0.004	0.54457
NT0903	FlGrass	0	NA	NA
NT0904	FlGrass	0.884	-0.008	< 1e-05
NT0905	FlGrass	0.801	0.019	0.17345
NT0906	FlGrass	0.849	0.05	0.00035
NT0907	FlGrass	0.923	0.013	0.00192
NT0908	FlGrass	0.893	0.002	0.28185
NT0909	FlGrass	0.891	0.006	0.00266
PA0901	FlGrass	0.884	0.002	0.23639
PA0902	FlGrass	0.751	0.002	0.03801
PA0903	FlGrass	0.764	-0.002	0.03753
PA0904	FlGrass	0.775	0.004	0.00031
PA0905	FlGrass	0.605	0.006	0.00147

PA0906	FlGrass	0.814	0.003	8.2e-05
PA0907	FlGrass	0.841	-0.003	0.04235
PA0908	FlGrass	0.7	0.004	0.08505
AA1001	MontGrass	0.928	0.015	0.00117
AA1002	MontGrass	0.603	0.076	0.18695
AA1003	MontGrass	0.491	0	0.86431
AT1001	MontGrass	0.971	-0.033	0.01328
AT1002	MontGrass	0.871	-0.065	< 1e-05
AT1003	MontGrass	0.888	-0.013	1.2e-05
AT1004	MontGrass	0.885	-0.009	< 1e-05
AT1005	MontGrass	0.787	0.019	0.13804
AT1006	MontGrass	0.941	0.005	0.25817
AT1007	MontGrass	0.832	0.055	< 1e-05
AT1008	MontGrass	0.736	0.024	0.01157
AT1009	MontGrass	0.834	-0.008	2.4e-05
AT1010	MontGrass	0.943	-0.035	< 1e-05
AT1011	MontGrass	0	NA	NA
AT1012	MontGrass	0.838	-0.022	< 1e-05
AT1013	MontGrass	0.847	0.037	< 1e-05
AT1014	MontGrass	0.91	0.004	0.34998
AT1015	MontGrass	0.92	0.01	0.17664
IM1001	MontGrass	0.652	-0.017	0.48576
NT1001	MontGrass	0.531	-0.005	0.11226
NT1002	MontGrass	0.61	-0.003	0.39998
NT1003	MontGrass	0.666	-0.02	0.02151
NT1004	MontGrass	0.708	0.008	0.52612
NT1005	MontGrass	0.848	0	0.96482
NT1006	MontGrass	0.739	0.09	0.00018
NT1007	MontGrass	0.865	0.055	0.04826
NT1008	MontGrass	0.566	0	0.9786
NT1010	MontGrass	0.696	-0.001	0.5447
PA1001	MontGrass	0.606	0.001	0.56862
PA1002	MontGrass	0.257	-0.002	0.19228
PA1003	MontGrass	0.567	-0.001	0.58109
PA1004	MontGrass	0.395	0.001	0.79463
PA1005	MontGrass	0.461	0.009	0.10704
PA1006	MontGrass	0.35	0.001	0.39538
PA1007	MontGrass	0.724	0	0.98348
PA1008	MontGrass	0.694	0.005	< 1e-05
PA1009	MontGrass	0.449	0.002	0.14174
PA1010	MontGrass	0	NA	NA
PA1011	MontGrass	0.321	-0.001	0.77143
PA1012	MontGrass	0.634	0.001	0.45655
PA1013	MontGrass	0.561	0	0.54638
PA1014	MontGrass	0.357	0.003	0.15205
PA1015	MontGrass	0.521	-0.004	0.187
PA1016	MontGrass	0.644	0.002	0.25485
PA1017	MontGrass	0.51	-0.003	0.00339
PA1018	MontGrass	0.514	0.002	0.33632
PA1019	MontGrass	0.625	0.005	1.3e-05
PA1020	MontGrass	0.39	-0.001	0.30851

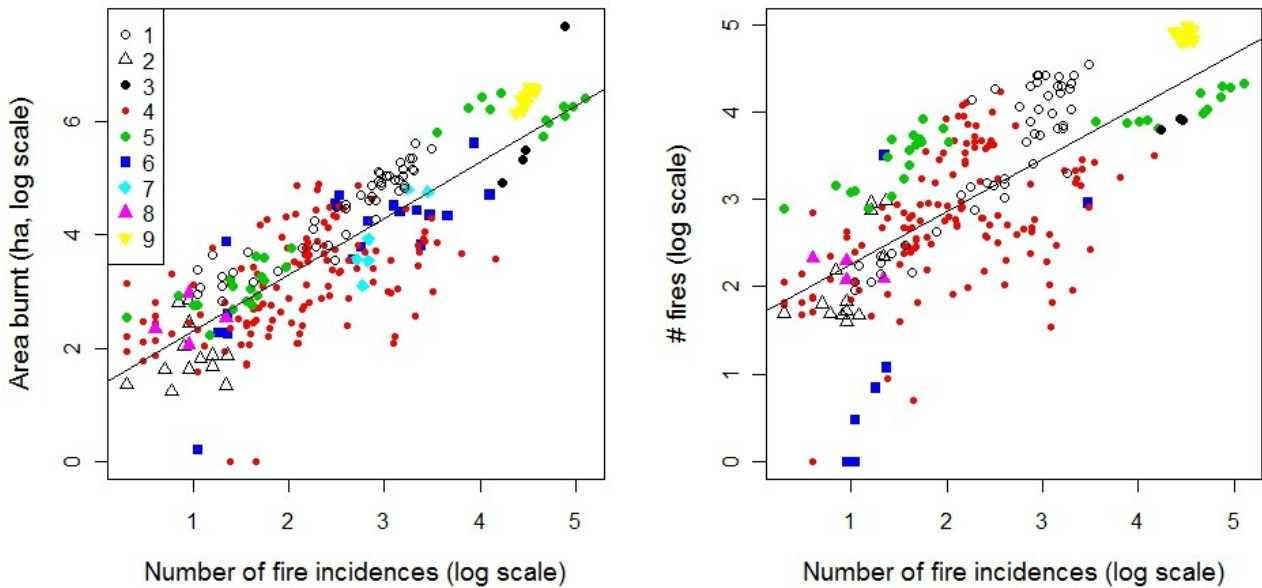
PA1021	MontGrass	0.613	-0.002	0.19301
PA1022	MontGrass	0.427	-0.001	0.27046
AA1101	Tundra	0	NA	NA
NA1101	Tundra	0.542	0.003	0.58911
NA1102	Tundra	0	NA	NA
NA1103	Tundra	0.296	NA	NA
NA1104	Tundra	0.53	-0.025	0.12509
NA1105	Tundra	0	NA	NA
NA1106	Tundra	0.505	0.015	0.0796
NA1107	Tundra	0.499	-0.009	0.74336
NA1108	Tundra	0.552	0.004	0.69846
NA1109	Tundra	0	NA	NA
NA1110	Tundra	0	NA	NA
NA1111	Tundra	0.79	0.019	0.02854
NA1112	Tundra	0	NA	NA
NA1113	Tundra	0.231	NA	NA
NA1114	Tundra	0	NA	NA
NA1115	Tundra	0.061	NA	NA
NA1116	Tundra	0.667	0.022	0.06395
NA1117	Tundra	0.395	-0.002	0.41879
NA1118	Tundra	0	NA	NA
PA1101	Tundra	0	NA	NA
PA1102	Tundra	0.699	0.013	0.00337
PA1103	Tundra	0.663	0.021	4.4e-05
PA1104	Tundra	0.442	0.022	0.10227
PA1105	Tundra	0.605	0.005	0.02323
PA1106	Tundra	0.523	0.01	0.27799
PA1107	Tundra	0.432	0.017	0.4196
PA1108	Tundra	0.446	0.011	0.00045
PA1109	Tundra	0	NA	NA
PA1110	Tundra	0.248	0	0.89436
PA1111	Tundra	0.405	0.008	< 1e-05
PA1112	Tundra	0.736	0.006	0.00149
PA1113	Tundra	0	NA	NA
PA1114	Tundra	0.572	0.012	< 1e-05
AA1201	Med	0.767	0.026	< 1e-05
AA1202	Med	0.727	0.022	< 1e-05
AA1203	Med	0.688	0.008	0.08285
AA1204	Med	0.786	0.015	0.11388
AA1205	Med	0.837	0.013	< 1e-05
AA1206	Med	0.739	0.009	0.03626
AA1207	Med	0.675	0.007	2.7e-05
AA1208	Med	0.651	0.003	0.58191
AA1209	Med	0.734	0.01	0.0002
AA1210	Med	0.826	0.013	< 1e-05
AT1201	Med	0.743	0.009	0.00477
AT1202	Med	0.846	0.024	< 1e-05
AT1203	Med	0.827	0.018	< 1e-05
NA1201	Med	0.851	0.009	7.2e-05
NA1202	Med	0.8	0.013	< 1e-05
NA1203	Med	0.904	0.013	< 1e-05

NT1201	Med	0.715	0.018	< 1e-05
PA1201	Med	0.74	0.013	< 1e-05
PA1202	Med	0.687	0.009	< 1e-05
PA1203	Med	0.708	0.016	0.21638
PA1204	Med	0.739	0.006	0.09942
PA1205	Med	0.725	0.007	0.00021
PA1206	Med	0.728	0.005	0.04967
PA1207	Med	0.83	0.017	< 1e-05
PA1208	Med	0.642	0.003	0.00257
PA1209	Med	0.694	0.01	< 1e-05
PA1210	Med	0.771	0.011	< 1e-05
PA1211	Med	0.757	0.017	< 1e-05
PA1212	Med	0.458	-0.001	0.47081
PA1213	Med	0.504	0.005	2.7e-05
PA1214	Med	0.71	0.021	< 1e-05
PA1215	Med	0.669	0.008	< 1e-05
PA1216	Med	0.812	0.009	< 1e-05
PA1217	Med	0.779	0.01	< 1e-05
PA1218	Med	0.777	0.012	< 1e-05
PA1219	Med	0.743	0.003	0.0853
PA1220	Med	0.707	0.011	< 1e-05
PA1221	Med	0.806	0.015	< 1e-05
PA1222	Med	0.782	0.02	< 1e-05
AA1301	Desert	0.717	0.009	0.00127
AA1302	Desert	0.83	0.005	0.04474
AA1303	Desert	0.831	0.01	< 1e-05
AA1304	Desert	0.87	0.006	0.00345
AA1305	Desert	0.786	0.018	< 1e-05
AA1306	Desert	0.558	-0.002	0.8051
AA1307	Desert	0.88	0.006	0.00516
AA1308	Desert	0.663	0.004	0.03287
AA1309	Desert	0.488	0.005	0.00027
AA1310	Desert	0.724	0.012	< 1e-05
AT1302	Desert	0.548	0.003	0.04358
AT1303	Desert	0	NA	NA
AT1304	Desert	0.741	-0.012	0.32018
AT1305	Desert	0.677	0.005	0.08231
AT1306	Desert	0.615	0.004	0.00352
AT1307	Desert	0.498	0.003	0.61073
AT1309	Desert	0.749	-0.001	0.61279
AT1310	Desert	0.469	-0.003	0.60004
AT1311	Desert	0.846	-0.022	< 1e-05
AT1312	Desert	0.875	-0.026	< 1e-05
AT1313	Desert	0.648	0.003	0.61568
AT1314	Desert	0.626	-0.001	0.5573
AT1315	Desert	0.33	-0.006	0.36411
AT1316	Desert	0.647	0	0.95714
AT1318	Desert	0	NA	NA
AT1319	Desert	0.305	-0.002	0.73265
AT1320	Desert	0.504	0.003	0.00505
AT1321	Desert	0.504	-0.002	0.35732

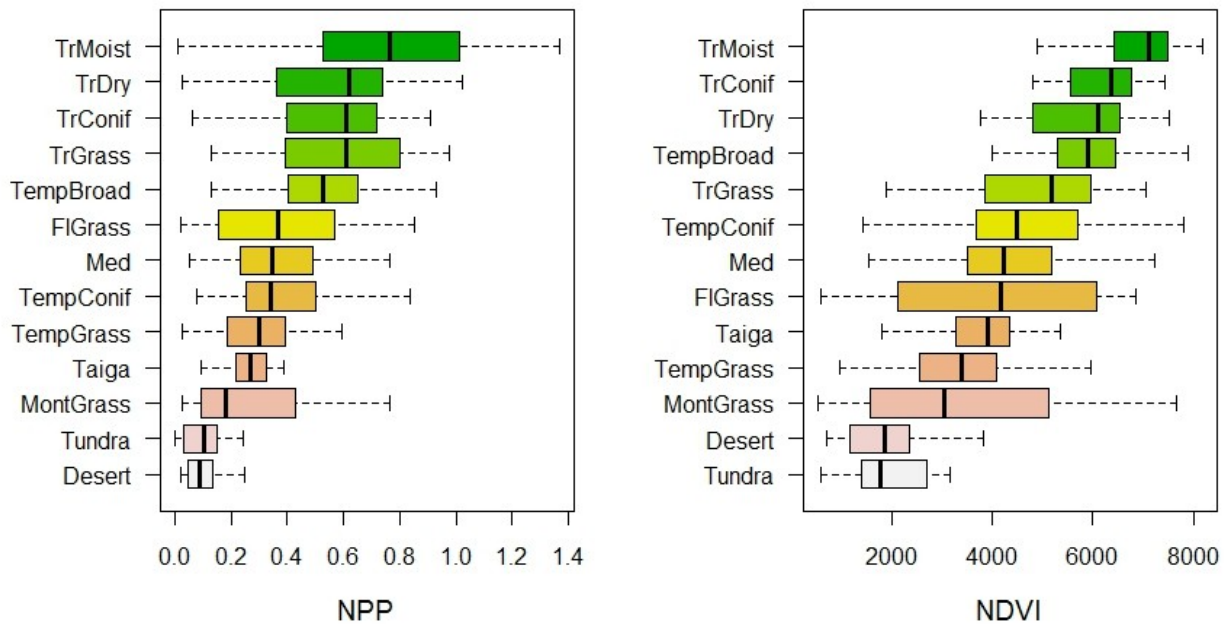
AT1322	Desert	0.658	0.012	4.1e-05
IM1301	Desert	0.755	0.002	0.49349
IM1302	Desert	0.753	0	0.72372
IM1303	Desert	0.853	0	0.72165
IM1304	Desert	0.626	0.003	0.00021
NA1301	Desert	0.632	0.003	0.07593
NA1302	Desert	0.767	0.001	0.82265
NA1303	Desert	0.637	0.003	0.00614
NA1304	Desert	0.692	0.009	< 1e-05
NA1305	Desert	0.699	0.011	< 1e-05
NA1306	Desert	0.377	0.003	0.51697
NA1307	Desert	0.662	-0.008	0.00245
NA1308	Desert	0.653	0.006	< 1e-05
NA1309	Desert	0.712	0.009	< 1e-05
NA1310	Desert	0.705	0.005	< 1e-05
NA1311	Desert	0.801	0.002	0.0411
NA1312	Desert	0.729	-0.001	0.23782
NA1313	Desert	0.61	0.003	0.00248
NT1301	Desert	0	NA	NA
NT1303	Desert	0.544	-0.006	0.01919
NT1304	Desert	0.804	0.047	< 1e-05
NT1305	Desert	0.55	NA	NA
NT1306	Desert	0	NA	NA
NT1307	Desert	0.788	-0.029	0.03667
NT1308	Desert	0.843	-0.03	0.00689
NT1309	Desert	0.913	0.088	< 1e-05
NT1312	Desert	0.913	0.046	< 1e-05
NT1313	Desert	0.687	-0.028	0.00242
NT1314	Desert	0.579	-0.001	0.36245
NT1315	Desert	0.658	0.004	0.3021
NT1316	Desert	0.726	-0.002	0.64744
PA1301	Desert	0.43	-0.005	0.29269
PA1302	Desert	0.445	0.001	0.01838
PA1303	Desert	0.606	0.005	< 1e-05
PA1304	Desert	0.22	NA	NA
PA1305	Desert	0.787	0.012	< 1e-05
PA1306	Desert	0.67	0.002	0.08274
PA1307	Desert	0.591	0.002	0.12212
PA1308	Desert	0.777	0.007	< 1e-05
PA1309	Desert	0.367	0.001	0.39355
PA1310	Desert	0.731	0.008	< 1e-05
PA1311	Desert	0.832	0.005	< 1e-05
PA1312	Desert	0.65	0.005	< 1e-05
PA1313	Desert	0.538	0.005	< 1e-05
PA1314	Desert	0.328	0.001	0.52366
PA1315	Desert	0.23	NA	NA
PA1316	Desert	0.632	0.003	0.12692
PA1317	Desert	0.641	0.001	0.21321
PA1318	Desert	0.799	0.013	< 1e-05
PA1319	Desert	0.727	0.006	< 1e-05
PA1320	Desert	0.622	0.003	0.0003



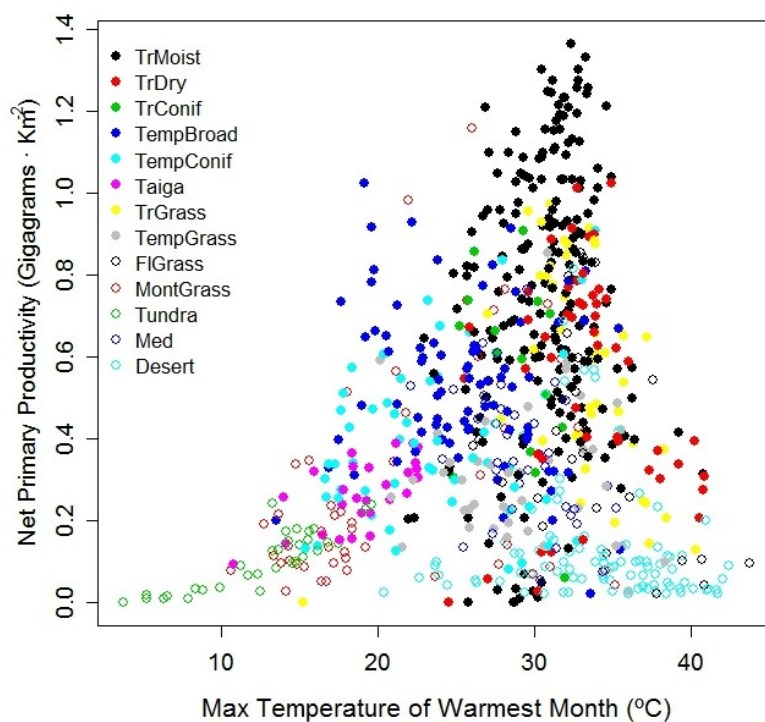
PA1321	Desert	0.555	0.007	< 1e-05
PA1322	Desert	0.488	0.001	0.81686
PA1323	Desert	0.732	0.002	0.00054
PA1324	Desert	0.298	0.001	0.8041
PA1325	Desert	0.58	0.005	9.3e-05
PA1326	Desert	0.476	0	0.69991
PA1327	Desert	0.513	0.007	< 1e-05
PA1328	Desert	0.709	0.003	< 1e-05
PA1329	Desert	0.129	0.001	0.40364
PA1330	Desert	0.438	0	0.90099
PA1331	Desert	0.285	0.002	0.50207
PA1332	Desert	0	NA	NA
PA1333	Desert	0.49	0	0.80823



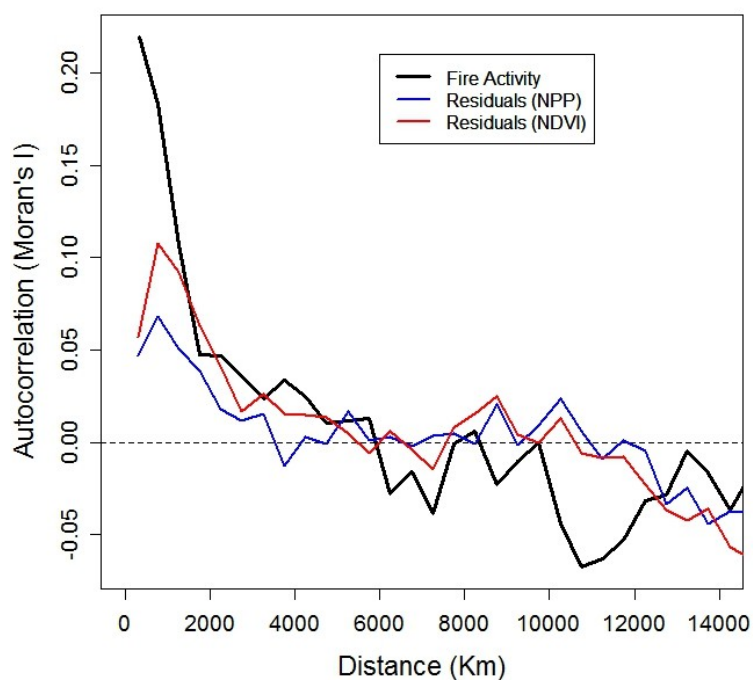
**Figure S1.** Relation of area burned (ha, left) and number of fires (right) against remotely sensed fire activity (x-axes), for 45 and 37 countries (respectively); note that axes are at log scale (source of the fire data in Table S1). Fire activity corresponds to the corrected number of fire incidences depicted by the MODIS sensor (Terra satellite) in each country. Different colors (coded from 1 to 9 in the left panel) refers to the dominant biome of the country (1: Med, 2: TempConif, 3: Desert, 4: TempBroad, 5: Taiga, 6: TrMoist, 7: TrConif, 8: Tundra, 9: TempGrass; full names are in Table 1). The correlations are highly significant ( $r= 0.815$  and  $0.686$ , respectively,  $p< 0.0001$ ); the linear mixed-effect model with country as random factor (i.e., repeated measures analysis) were also significant ( $\chi^2= 113.52$  and  $50.62$ , respectively,  $df=1$ ,  $p< 0.0001$ ). In other words, the remotely sensed fire activity from MODIS is a good indicator of the observed fire activity in the field.



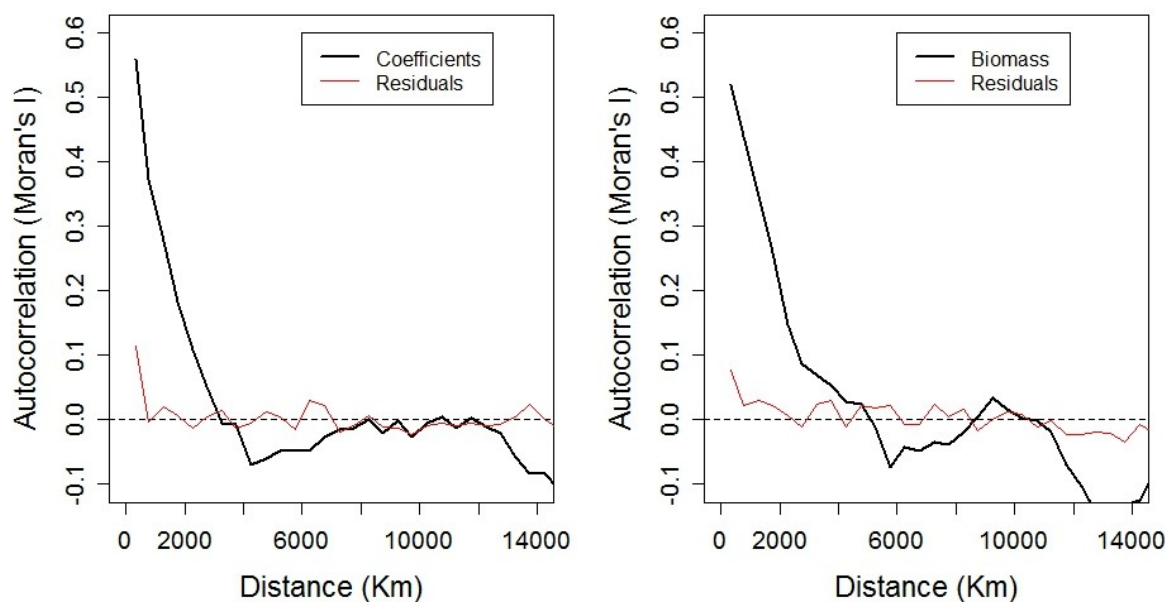
**Figure S2.** Summary of the productivity variables by biome; variability correspond to the ecoregions of each biome. In each plot biomes are ordered by median value of the variable considered. NPP: Net Primary Production (Gigagrams/Km<sup>2</sup>); NDVI: Normalized Differences Vegetation Index. Biome codes as in Table 1.



**Figure S3.** Distribution of the different ecoregions in relation to the maximum temperature of the warmest month and the net primary productivity. Colors refer to different biomes (code as in Table 1).



**Figure S4.** Spatial autocorrelograms (Moran's I coefficient in relation to the geographical distance) of fire activity (thick black line) as well as of the residuals of the GAM models (Figure 3) with the productivity predictors.



**Figure S5.** Spatial autocorrelograms (Moran's I coefficient in relation to the geographical distance) of a) the coefficients relating monthly fire activity and monthly maximum temperature and of the residuals of these coefficients against NPP (Fig. 4 left); and b) biomass and the residuals of the biomass against NPP (Fig. 4 right).