

Additional file 2 Candidate predictor variables used to determine drivers of forest fire frequency in the Czech Republic, where we investigated the relationship between numbers of forest fires and predictor variables characterizing climate, land cover, and human activity factors between 2006 and 2015. Only the subset of variables with significant effects (indicated by an asterisk, *) was used to construct the statistical models. SD = standard deviation.

Predictor variable	Mean	Median	Minimum	Maximum	SD
Forest complex area (ha)	414.7	388.0	115.5	766.6	166.2
Conifer cover (%) *	61.8	75.1	17.3	87.6	23.4
Difference in number of days with snow cover from the long-term mean (days)	6.3	5.1	0.1	22.4	5.0
Difference of mean monthly temperature (April to October) from the long-term mean (°C)	0.0	−0.1	−2.8	3.6	1.2
Difference of total precipitation (April to October) from the long-term mean (mm)	0.0	−4.0	−86.0	243.4	35.6
Ellenberg’s climate quotient (Ellenberg 1996) from 1981 to 2000 (mm °C ^{−1})	28.5	29.7	16.8	41.9	7.1
Forest–agricultural land interface per hectare of forest (m ha ^{−1})	3332.2	3244.1	2059.3	6729.8	1023.5
Wildland–urban interface per hectare of forest (m ha ^{−1}) *	362.1	183.2	44.5	2463.9	564.6
Mean annual temperature (from 1981 to 2000; °C)	7.9	7.9	6.2	9.5	1.0
Mean monthly temperature (April to October; °C) *	14.1	14.3	5.4	23.0	4.2
Number of days with snow cover (days)	28.3	25.7	0.4	71.1	19.8
Average overnight tourist density per hectare of forest (n ha ^{−1} yr ^{−1}) *	20.4	11.1	3.7	92.6	23.5
Proportion of forest area (%)	32.2	33.5	6.7	59.3	13.6
Proportion of forests with water-limited soils (%)	4.0	3.1	0.2	12.4	3.4
Proportion of <i>Pinus sylvestris</i> forests (%)	14.2	12.2	1.2	42.1	10.8
Relative difference of mean monthly temperature (April to October) from the long-term mean (°C)	0.0	−0.9	−29.2	39.9	10.3
Relative difference of total precipitation (April to October) from the long-term mean (%)	0.0	−6.4	−94.2	208.5	48.5
Population density per hectare of forest (n ha ^{−1}) *	9.8	4.2	7.2	59.8	15.2
Monthly precipitation totals (April to October; mm) *	71.1	64.1	1.7	373.6	42.9