

## **Supplementary Material**

### **Increasing fire danger in the Netherlands due to climate change**

*Hugo A. Lambrechts<sup>A,\*</sup>, Raoul D. H. Sooijs<sup>A</sup>, Spyridon Paparrizos<sup>A</sup>, Fulco Ludwig<sup>A</sup> and Cathelijne R. Stooft<sup>B</sup>*

<sup>A</sup>Earth Systems and Global Change Group, Wageningen University and Research, Droevendaalsesteeg 3, Wageningen, 6708PB, The Netherlands

<sup>B</sup>Soil Physics and Land Management Group, Wageningen University and Research, P.O. Box 47, Wageningen, 6700AA, The Netherlands

\*Correspondence to: Email: [hugo.lambrechts@wur.nl](mailto:hugo.lambrechts@wur.nl)

Table S1: Fire danger days according to different FFM thresholds at the Volkel weather station.

FFMC Threshold	Reference (1981-2010)	GL2050	WH2050	GL2085	WH2085
69	146	158	157	158	164
72	129	140	140	140	146
74	115	126	126	127	132
77	94	105	105	105	111
82	44	51	54	52	59
84	22	25	31	26	34
84.95	12	15	19	15	22
86.36	5	6	7	6	9

Table S2: Fire danger days according to different FWI thresholds at the Volkel weather station.

FWI Threshold	Reference (1981-2010)	GL2050	WH2050	GL2085	WH2085
9	11	25	18	25	22
11.2	5	16	10	16	13
14	2	8	4	9	6
15	1	6	3	7	5
17	0	4	1	4	2
20	0	2	1	2	1
30	0	0	0	0	0

Table S3: Root square mean error per weather station for the FWI comparing scenarios to the reference period (1981-2010).

FWI RMSE	2050GL	2050WH	2085GI	2085WH
De Kooy, 235	0.2205	0.8837	0.2371	1.4041
Schiphol, 240	0.7621	0.8336	0.7817	1.3114
De Bilt, 260	1.518	0.6965	1.5487	1.0909
Leeuwarden, 270	0.7176	0.6982	0.7276	1.1064
Markenese, 273	1.0096	0.6620	1.0261	1.0436
Deelen, 275	1.304	0.7913	1.3332	1.2622
Eelde, 280	0.947	0.6422	0.9612	1.0338
Twenthe, 290	1.6778	0.7362	1.7079	1.1820
Vlissingen, 310	0.814	1.0391	0.8257	1.6328
Rotterdam, 344	1.0564	0.7733	1.077	1.2251
Gilze-Rijen, 350	1.4901	0.7895	1.5197	1.2512
Volkel, 375	1.6394	0.7896	1.6695	1.258
Maastricht, 380	1.5362	0.8695	1.5683	1.4010

Table S4: Root square mean error per weather station for the FFM comparing scenarios to the reference period (1981-2010).

<b>FFMC RMSE</b>	<b>GL2050</b>	<b>WH2050</b>	<b>GL2085</b>	<b>WH2085</b>
<b>De Kooy, 235</b>	0.8375	2.5071	0.7511	3.8618
<b>Schiphol, 240</b>	1.3957	2.6192	1.259	4.0372
<b>De Bilt, 260</b>	3.0365	2.66646	2.9023	4.1179
<b>Leeuwarden, 270</b>	1.7458	2.7338	1.5542	4.2233
<b>Markenese, 273</b>	2.2597	2.8291	2.0253	4.3838
<b>Deelen, 275</b>	2.4485	2.6897	2.2827	4.1679
<b>Eelde, 280</b>	2.2703	2.9229	1.9858	4.5432
<b>Twenthe, 290</b>	2.8408	2.7038	2.6658	4.1812
<b>Vlissingen, 310</b>	1.0335	2.3938	1.0801	3.6658
<b>Rotterdam, 344</b>	1.7719	2.6280	1.6501	4.0351
<b>Gilze-Rijen, 350</b>	2.4977	2.5793	2.3755	3.9796
<b>Volkel, 375</b>	2.6275	2.5666	2.4942	3.9621
<b>Maastricht, 380</b>	2.0673	2.5289	1.9491	3.9004