
Supplementary information

Mapping the forest disturbance regimes of Europe

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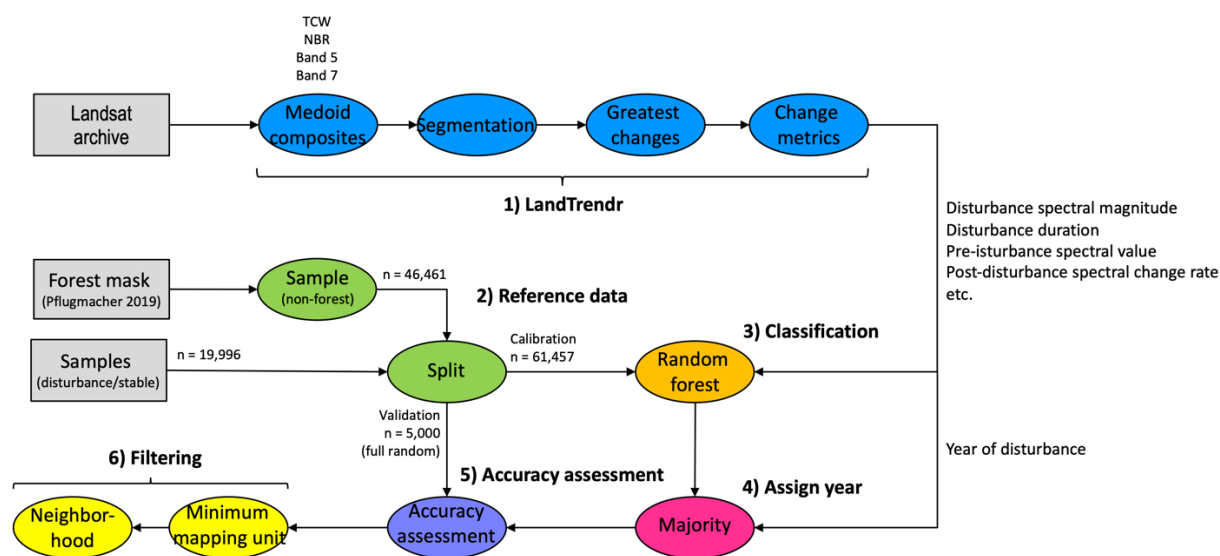
Cornelius Senf and Rupert Seidl

Supplementary Table 1: Number of reference plots and their distribution across countries.

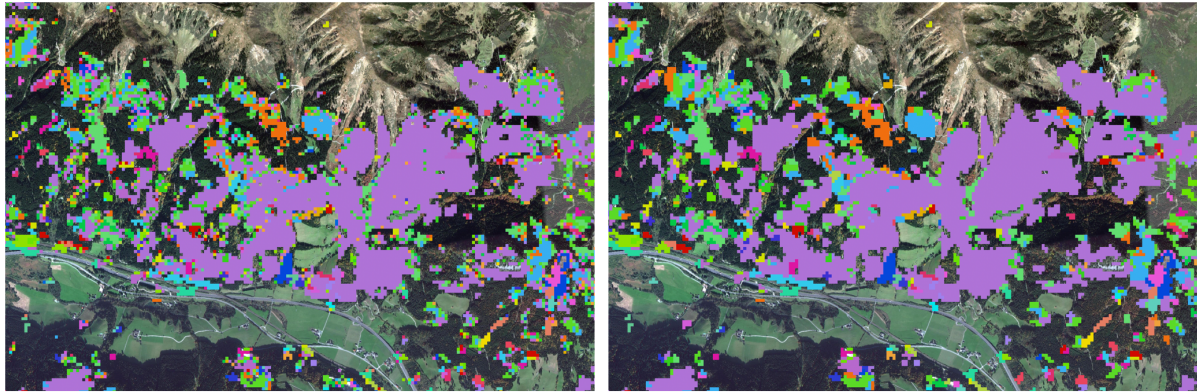
Country	Forest	No-Forest	Total	Validation	Calibration
Albania	415	1132	1547	25	1522
Austria	1828	2050	3878	73	3805
Belarus	442	700	1142	181	961
Belgium	334	1161	1495	27	1468
Bosnia and Herzegovina	393	391	784	44	740
Bulgaria	418	863	1281	96	1185
Croatia	433	558	991	50	941
Czech Republic	1401	2847	4248	69	4179
Denmark	401	2452	2853	38	2815
Estonia	377	365	742	39	703
Finland	450	202	652	294	358
France	413	507	920	477	443
Germany	1227	2615	3842	311	3531
Greece	412	956	1,368	109	1,259
Hungary	349	1,199	1,548	81	1,467
Ireland	298	2,474	2,772	61	2,711
Italy	363	660	1,023	262	761
Latvia	389	483	872	56	816
Lithuania	416	858	1,274	56	1,218
Moldova	302	2,803	3,105	29	3,076
Montenegro	403	485	888	12	876
Netherlands	322	2,782	3,104	31	3,073
North Macedonia	439	647	1,086	22	1,064
Norway	394	621	1,015	271	744
Poland	1,312	3,234	4,546	271	4,275
Portugal	387	691	1,078	77	1,001
Romania	436	1,058	1,494	207	1,287
Serbia	334	750	1,084	77	1,007
Slovakia	1,820	2,640	4,460	43	4,417
Slovenia	412	251	663	18	645
Spain	326	557	883	434	449
Sweden	439	265	704	391	313
Switzerland	1,128	2,581	3,709	36	3,673
Ukraine	451	2,115	2,566	519	2,047
United Kingdom	332	2,508	2,840	213	2,627
Sum	19,996	46,461	66,457	5,000	61,457

Supplementary Table 2: Confusion matrix (expressed as proportions), overall accuracy ($\pm$ standard error) and errors of omission and commission ($\pm$ standard error), all derived from and independent and randomly distributed validation sample of $n = 5,000$.

Mapped	Interpreted			Total	Commission error rate
	Disturbance	Forest	Non-forest		
Disturbance	0.093	0.017	0.002	0.112	0.171 ± 0.016
Forest	0.045	0.375	0.012	0.432	0.133 ± 0.007
Non-forest	0.01	0.039	0.409	0.456	0.104 ± 0.006
Total	0.147	0.430	0.423	1.000	
Omission error rate	0.369 ± 0.018	0.129 ± 0.007	0.034 ± 0.004		Overall error rate: 0.124 ± 0.005



Supplementary Figure 1: Workflow for mapping no-forest areas, undisturbed forests and disturbed forests across continental Europe.



Supplementary Figure 2: Example of the spatial filter applied to the disturbance maps.

Colors indicate different years of disturbance.