

Table S4. Parameters of the regressions obtained to express monthly tminabs based on 4 variables (Alt, CosLat, DistSea and Rad). r^2 : correlation coefficients using the four (_X1X4) or three (all except Rad; _X1X3) independent variables; a_i : coefficient of each variable. The p -value is shown solely for Rad because for the other variables they are much lower than the threshold $p = 0.05$ for all months.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
$r^2_{_X1X4}$	0.818	0.845	0.864	0.852	0.880	0.897	0.888	0.877	0.816	0.803	0.768	0.740
$r^2_{_X1X3}$	0.810	0.839	0.862	0.849	0.880	0.897	0.889	0.878	0.813	0.798	0.758	0.727
a_1 (Alt)	-0.0024	-0.0033	-0.0039	-0.0033	-0.0038	-0.0040	-0.0036	-0.0034	-0.0026	-0.0021	-0.0019	-0.0013
a_2 (CosLat)	138.21	143.86	164.07	136.68	128.91	139.13	179.14	135.00	169.51	156.36	138.29	120.54
a_3 (DistSea)	-0.0359	-0.0278	-0.0202	-0.0227	-0.0218	-0.0201	-0.0206	-0.0278	-0.0291	-0.0370	-0.0395	-0.0434
a_4 (Rad)	0.0039	0.0032	0.0022	0.0028	0.0010	-0.0018	-0.0002	0.0006	0.0028	0.0030	0.0043	0.0053
p -value Rad	0.009	0.013	0.074	0.047	0.542	0.298	0.910	0.678	0.048	0.028	0.008	0.004

Table S5. Root-mean-square errors (RMSE) of the two methods tested to obtain tminabs values (multiple regression and Universal Kriging) (°C).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
RMSE regr.	1.63	1.69	1.60	1.51	1.38	1.29	1.34	1.42	1.70	1.80	1.93	2.00
RMSE UK	1.54	1.28	1.31	1.27	1.18	1.22	1.15	1.13	1.46	1.47	1.60	1.69