

Supplementary Materials

Table S1: Mean Average Error (MAE) of the Leave-one-out cross-validations (LOOCV) of the different interpolation methods.

Date	Depth	IDW	OK	MLR	KED	RT	RTK	RF	RFK
June 2014	16–25	0.65	0.76	0.56	0.57	0.54	0.53	0.62	0.64
March 2015	16–25	0.28	0.29	0.22	0.24	0.22	0.24	0.23	0.25
May 2015	16–25	0.57	0.54	0.44	0.46	0.56	0.54	0.47	0.48
August 2015	16–25	0.20	0.20	0.21	0.21	0.24	0.23	0.23	0.24
May 2016	16–25	0.27	0.27	0.26	0.28	0.26	0.26	0.25	0.26
April 2017	16–25	0.24	0.22	0.20	0.20	0.19	0.20	0.20	0.20
May 2018	16–25	0.29	0.25	0.24	0.24	0.25	0.26	0.24	0.24
March 2019	16–25	0.27	0.25	0.19	0.20	0.25	0.25	0.22	0.23
June 2014	36–45	0.38	0.39	0.33	0.36	0.37	0.41	0.37	0.39
March 2015	36–45	0.43	0.42	0.37	0.39	0.46	0.47	0.42	0.44
May 2015	36–45	0.49	0.49	0.47	0.48	0.52	0.53	0.52	0.52
August 2015	36–45	0.54	0.51	0.62	0.60	0.64	0.66	0.62	0.58
May 2016	36–45	0.47	0.49	0.54	0.54	0.52	0.51	0.60	0.59
April 2017	36–45	0.52	0.55	0.51	0.55	0.48	0.48	0.52	0.55
May 2018	36–45	0.47	0.46	0.41	0.44	0.43	0.45	0.44	0.47
March 2019	36–45	0.41	0.41	0.46	0.45	0.44	0.44	0.45	0.46

IDW: Inverse Distance Weighting; OK: Ordinary Kriging; MLR: Multiple Linear Regression; KED: Kriging with External Drift; RT: Regression Tree; RTK: Regression Tree Kriging; RF: Random Forest; RFK: Random Forest Kriging.

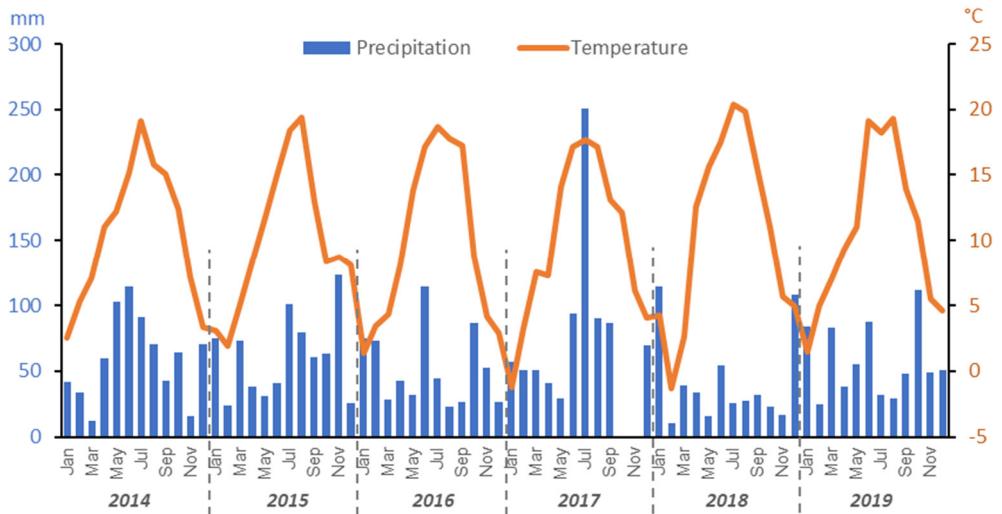


Figure S1: Weather chart for the study area (data source: [39] DWD, weather station Alfeld). Data is missing in October and November 2017.