



Supplement of

rsfun v5.1: a model-data integration framework for simulating ecosystem processes

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Section S1 Listing of daily meterological input forcings required by *rsofun*

Table S1. Forcing time series used for transient simulations. Daily time series of the following meteorological variables are required for simulation.

Variable name	Description	Units
temp	Daytime average air temperature	°C
tmin	Daily minimum air temperature	°C
tmax	Daily maximum air temperature	°C
vpd	Daytime average vapor pressure deficit	Pa
ppfd	Photosynthetic photon flux density (PPFD)	$\text{mol m}^{-2} \text{s}^{-1}$
netrad	Net radiation	W m^{-2}
patm	Atmospheric pressure	Pa
rain	Rainfall as precipitation in liquid form	mm s^{-1}
snow	Snowfall in water equivalents	mm s^{-1}
fapar	Fraction of photosynthetic active radiation (fAPAR)	unitless
ccov	Cloud coverage	%
co2	Atmospheric CO ₂ concentration	ppm

Section S2 Listing of observational sites

Below we list all the observational sites used for the model calibration or evaluation.

Table S2. Listing of sites in training and testing data sets, including site-specific data such as climate and vegetation type. For vj and bigD13C sites, Koeppen-Geiger climate classes are derived from Beck et al. (2018) and IGBP vegetation types are derived from Copernicus Climate Change Service (2019). For gpp sites classes and types are taken from Hufkens and Stocker (2025).

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
train	gpp	5484	DK-Sor	Cfb	DBF	11.64	55.49	40.00
train	gpp	8838	US-Ha1	Dfb	DBF	-72.17	42.54	340.00
train	gpp	6520	US-MMS	Cfa	DBF	-86.41	39.32	275.00
train	gpp	319	GF-Guy	Af	EBF	-52.92	5.28	40.00
train	gpp	8176	CH-Dav	Et	ENF	9.86	46.82	1689.00
train	gpp	4634	CZ-BK1	Dfb	ENF	18.54	49.50	875.00
train	gpp	6715	FI-Hyy	Dfc	ENF	24.29	61.85	181.00
train	gpp	5873	IT-Lav	Cfb	ENF	11.28	45.96	1353.00
train	gpp	6734	US-Var	Csa	GRA	-120.95	38.41	129.00
train	gpp	6068	US-Wkg	Bsk	GRA	-109.94	31.74	1531.00
train	gpp	7621	BE-Vie	Cfb	MF	6.00	50.30	490.00
train	gpp	5726	US-PFa	Dfb	MF	-90.27	45.95	470.00
train	vj	4	lon_+012.75_lat_+006.21	Aw	CSH	12.75	6.21	814.80
train	vj	1	lon_+150.74_lat_-033.62	Cfa	CSH	150.74	-33.62	25.84
train	vj	4	lon_+012.87_lat_+006.00	Aw	DBF	12.87	6.00	761.80
train	vj	13	lon_+012.89_lat_+006.01	Aw	DBF	12.89	6.01	765.20
train	vj	1	lon_+138.77_lat_+036.92	Dfb	DBF	138.77	36.92	760.04
train	vj	13	lon_-001.18_lat_+007.30	Aw	DBF	-1.18	7.30	194.40
train	vj	23	lon_-001.69_lat_+007.71	Aw	DBF	-1.69	7.71	355.56
train	vj	6	lon_-084.71_lat_+045.56	Dfb	DBF	-84.71	45.56	235.60
train	vj	2	lon_-084.72_lat_+045.56	Dfb	DBF	-84.72	45.56	241.44
train	vj	7	lon_-085.40_lat_+042.41	Dfa	DBF	-85.40	42.41	281.60
train	vj	49	lon_+101.58_lat_+021.62	Cwa	EBF	101.58	21.62	796.84
train	vj	41	lon_+145.75_lat_-017.25	Cwa	EBF	145.75	-17.25	218.00
train	vj	1	lon_+150.71_lat_-034.62	Cfb	EBF	150.71	-34.62	579.72
train	vj	1	lon_-056.25_lat_-003.75	Af	EBF	-56.25	-3.75	108.00
train	vj	1	lon_-060.10_lat_-002.58	Af	EBF	-60.10	-2.58	108.60
train	vj	25	lon_-069.60_lat_-013.02	Af	EBF	-69.60	-13.02	226.20
train	vj	7	lon_-071.58_lat_-013.12	Et	EBF	-71.58	-13.12	2488.12
train	vj	27	lon_-073.63_lat_-004.88	Af	EBF	-73.63	-4.88	130.20
train	vj	38	lon_-084.02_lat_+010.42	Af	EBF	-84.02	10.42	96.08
train	vj	1	lon_-002.30_lat_+052.80	Cfb	GRA	-2.30	52.80	99.00
train	vj	1	lon_+140.95_lat_+039.63	Dfa	WSA	140.95	39.63	240.40
train	vj	1	lon_-003.06_lat_+055.90	Cfb	WSA	-3.06	55.90	49.40
train	bigD13C+vj	(4, 7)	lon_-079.10_lat_+035.97	Cfa	DBF	-79.10	35.97	170.20
train	bigD13C+vj	(4, 4)	lon_+151.14_lat_-033.69	Cfa	EBF	151.14	-33.69	143.96
train	bigD13C+vj	(1, 1)	lon_-083.81_lat_+042.27	Dfa	GRA	-83.81	42.27	295.08
train	bigD13C	4	lon_+021.00_lat_-032.00	Bwk	BSV	21.00	-32.00	1238.00
train	bigD13C	1	lon_+098.00_lat_+074.00	Et	BSV	98.00	74.00	80.00
train	bigD13C	2	lon_+125.53_lat_-027.00	Bwh	BSV	125.53	-27.00	421.80
train	bigD13C	1	lon_+126.28_lat_-026.23	Bwh	BSV	126.28	-26.23	433.76
train	bigD13C	4	lon_+126.41_lat_-026.43	Bwh	BSV	126.41	-26.43	405.16
train	bigD13C	2	lon_+126.91_lat_-025.88	Bwh	BSV	126.91	-25.88	497.20
train	bigD13C	2	lon_+128.17_lat_-025.07	Bwh	BSV	128.17	-25.07	564.72
train	bigD13C	2	lon_+128.33_lat_-025.06	Bwh	BSV	128.33	-25.06	598.48
train	bigD13C	2	lon_+128.93_lat_-024.84	Bwh	BSV	128.93	-24.84	624.56

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
train	bigD13C	1	lon_+140.00_lat_+075.30	Et	BSV	140.00	75.30	23.00
train	bigD13C	37	lon_+145.00_lat_-024.08	Bsh	BSV	145.00	-24.08	230.00
train	bigD13C	12	lon_-069.67_lat_-018.33	Bwk	BSV	-69.67	-18.33	3361.84
train	bigD13C	1	lon_-152.41_lat_+062.52	Et	BSV	-152.41	62.52	774.68
train	bigD13C	45	lon_+017.08_lat_-028.23	Bwh	CSH	17.08	-28.23	504.56
train	bigD13C	3	lon_+018.50_lat_-032.50	Csa	CSH	18.50	-32.50	217.00
train	bigD13C	8	lon_+018.50_lat_-033.50	Csa	CSH	18.50	-33.50	307.00
train	bigD13C	5	lon_+018.92_lat_-034.00	Csb	CSH	18.92	-34.00	872.00
train	bigD13C	4	lon_+019.12_lat_-032.40	Bsk	CSH	19.12	-32.40	1369.60
train	bigD13C	3	lon_+026.52_lat_-033.30	Bsh	CSH	26.52	-33.30	578.20
train	bigD13C	11	lon_+031.48_lat_-023.00	Bsh	CSH	31.48	-23.00	336.40
train	bigD13C	5	lon_+037.30_lat_-000.20	Cfb	CSH	37.30	-0.20	4116.00
train	bigD13C	1	lon_+045.00_lat_+068.00	Dfc	CSH	45.00	68.00	97.00
train	bigD13C	2	lon_+088.28_lat_+069.40	Dfc	CSH	88.28	69.40	48.20
train	bigD13C	4	lon_+120.19_lat_-031.88	Bsk	CSH	120.19	-31.88	404.12
train	bigD13C	4	lon_+120.34_lat_-031.78	Bsk	CSH	120.34	-31.78	465.20
train	bigD13C	2	lon_+120.48_lat_-031.67	Bsk	CSH	120.48	-31.67	457.52
train	bigD13C	2	lon_+120.94_lat_-031.19	Bwk	CSH	120.94	-31.19	424.28
train	bigD13C	6	lon_+121.12_lat_-029.91	Bwh	CSH	121.12	-29.91	396.48
train	bigD13C	11	lon_+132.38_lat_-012.68	Aw	CSH	132.38	-12.68	35.48
train	bigD13C	170	lon_+132.92_lat_-012.65	Aw	CSH	132.92	-12.65	20.60
train	bigD13C	1	lon_+151.92_lat_-026.94	Cfa	CSH	151.92	-26.94	438.12
train	bigD13C	1	lon_+152.00_lat_-026.79	Cfa	CSH	152.00	-26.79	418.00
train	bigD13C	3	lon_-103.18_lat_+029.40	Bwh	CSH	-103.18	29.40	926.00
train	bigD13C	6	lon_-105.88_lat_+033.37	Bsk	CSH	-105.88	33.37	2043.40
train	bigD13C	2	lon_-109.02_lat_+032.68	Bwk	CSH	-109.02	32.68	1162.00
train	bigD13C	3	lon_-110.10_lat_+031.73	Bsk	CSH	-110.10	31.73	1313.00
train	bigD13C	3	lon_-110.13_lat_+031.58	Bsk	CSH	-110.13	31.58	1251.64
train	bigD13C	8	lon_-110.82_lat_+029.10	Bwh	CSH	-110.82	29.10	242.00
train	bigD13C	7	lon_-110.85_lat_+037.23	Bwk	CSH	-110.85	37.23	1265.60
train	bigD13C	1	lon_-111.83_lat_+028.83	Bwh	CSH	-111.83	28.83	4.96
train	bigD13C	3	lon_-111.93_lat_+034.78	Bsk	CSH	-111.93	34.78	1130.64
train	bigD13C	3	lon_-112.92_lat_+037.20	Bsk	CSH	-112.92	37.20	1772.40
train	bigD13C	39	lon_-114.42_lat_+034.95	Bwh	CSH	-114.42	34.95	500.60
train	bigD13C	1	lon_-115.62_lat_+034.93	Bwh	CSH	-115.62	34.93	888.88
train	bigD13C	3	lon_-115.80_lat_+033.70	Bwh	CSH	-115.80	33.70	715.00
train	bigD13C	1	lon_-117.33_lat_+034.58	Bwk	CSH	-117.33	34.58	833.12
train	bigD13C	1	lon_-134.80_lat_+056.87	Dfc	CSH	-134.80	56.87	226.60
train	bigD13C	4	lon_-138.04_lat_+059.46	Dfc	CSH	-138.04	59.46	188.76
train	bigD13C	1	lon_-149.90_lat_+063.27	Et	CSH	-149.90	63.27	968.40
train	bigD13C	2	lon_-155.60_lat_+059.01	Dfc	CSH	-155.60	59.01	208.40
train	bigD13C	1	lon_-155.97_lat_+058.20	Dfc	CSH	-155.97	58.20	220.80
train	bigD13C	1	lon_-165.41_lat_+061.41	Dfc	CSH	-165.41	61.41	1.36
train	bigD13C	8	lon_+010.52_lat_+051.08	Dfb	DBF	10.52	51.08	337.12
train	bigD13C	3	lon_+116.56_lat_-031.89	Csa	DBF	116.56	-31.89	310.64
train	bigD13C	3	lon_+119.00_lat_-032.73	Bsk	DBF	119.00	-32.73	407.00

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
train	bigD13C	2	lon_+119.28_lat_-032.55	Bsk	DBF	119.28	-32.55	361.20
train	bigD13C	10	lon_+119.75_lat_-032.16	Bsk	DBF	119.75	-32.16	435.80
train	bigD13C	19	lon_+146.13_lat_-032.97	Bsk	DBF	146.13	-32.97	168.40
train	bigD13C	2	lon_+148.30_lat_-036.10	Cfb	DBF	148.30	-36.10	1406.00
train	bigD13C	8	lon_-084.28_lat_+035.97	Cfa	DBF	-84.28	35.97	320.68
train	bigD13C	2	lon_-089.57_lat_+045.77	Dfb	DBF	-89.57	45.77	487.08
train	bigD13C	4	lon_-111.10_lat_+040.55	Dfb	DBF	-111.10	40.55	2350.00
train	bigD13C	2	lon_-151.82_lat_+062.31	Dfc	DBF	-151.82	62.31	71.24
train	bigD13C	2	lon_+088.38_lat_+069.48	Dfc	DNF	88.38	69.48	53.72
train	bigD13C	14	lon_+108.43_lat_+033.43	Cwa	EBF	108.43	33.43	1631.76
train	bigD13C	94	lon_+112.58_lat_+023.13	Cfa	EBF	112.58	23.13	182.44
train	bigD13C	13	lon_+114.02_lat_-000.07	Af	EBF	114.02	-0.07	279.28
train	bigD13C	1	lon_+115.50_lat_-033.58	Csb	EBF	115.50	-33.58	18.60
train	bigD13C	1	lon_+116.26_lat_-031.88	Csa	EBF	116.26	-31.88	290.84
train	bigD13C	1	lon_+116.79_lat_-034.97	Csb	EBF	116.79	-34.97	120.96
train	bigD13C	10	lon_+117.23_lat_-035.02	Csb	EBF	117.23	-35.02	32.20
train	bigD13C	4	lon_+117.27_lat_-035.02	Csb	EBF	117.27	-35.02	19.12
train	bigD13C	1	lon_+117.33_lat_-034.97	Csb	EBF	117.33	-34.97	95.72
train	bigD13C	1	lon_+117.51_lat_-034.74	Csb	EBF	117.51	-34.74	139.12
train	bigD13C	1	lon_+145.13_lat_-005.83	Af	EBF	145.13	-5.83	2789.16
train	bigD13C	5	lon_+145.43_lat_-016.13	Am	EBF	145.43	-16.13	241.40
train	bigD13C	17	lon_+151.13_lat_-033.68	Cfa	EBF	151.13	-33.68	147.76
train	bigD13C	11	lon_+152.83_lat_-027.03	Cfa	EBF	152.83	-27.03	118.00
train	bigD13C	25	lon_+153.00_lat_-026.85	Cfa	EBF	153.00	-26.85	20.00
train	bigD13C	8	lon_+170.30_lat_-043.20	Cfb	EBF	170.30	-43.20	102.00
train	bigD13C	2	lon_-044.00_lat_-022.85	Aw	EBF	-44.00	-22.85	485.00
train	bigD13C	10	lon_-053.00_lat_+005.03	Am	EBF	-53.00	5.03	70.60
train	bigD13C	38	lon_-053.50_lat_+005.30	Af	EBF	-53.50	5.30	85.00
train	bigD13C	27	lon_-055.00_lat_-003.00	Am	EBF	-55.00	-3.00	179.00
train	bigD13C	196	lon_-060.00_lat_-002.50	Af	EBF	-60.00	-2.50	110.00
train	bigD13C	6	lon_-064.27_lat_-003.65	Af	EBF	-64.27	-3.65	68.80
train	bigD13C	57	lon_-066.46_lat_+000.14	Af	EBF	-66.46	0.14	91.08
train	bigD13C	10	lon_-067.00_lat_+002.00	Af	EBF	-67.00	2.00	93.00
train	bigD13C	6	lon_-071.95_lat_-007.17	Af	EBF	-71.95	-7.17	172.80
train	bigD13C	1	lon_-072.33_lat_-040.78	Cfb	EBF	-72.33	-40.78	860.72
train	bigD13C	17	lon_-079.97_lat_+009.28	Am	EBF	-79.97	9.28	73.32
train	bigD13C	1	lon_-155.20_lat_+019.68	Cfb	EBF	-155.20	19.68	716.60
train	bigD13C	2	lon_+007.21_lat_+048.18	Dfb	ENF	7.21	48.18	710.88
train	bigD13C	44	lon_+018.85_lat_+068.33	Et	ENF	18.85	68.33	502.60
train	bigD13C	2	lon_-098.50_lat_+056.00	Dfc	ENF	-98.50	56.00	278.00
train	bigD13C	9	lon_-105.12_lat_+053.98	Dfc	ENF	-105.12	53.98	589.40
train	bigD13C	5	lon_-109.13_lat_+033.60	Dsb	ENF	-109.13	33.60	1805.40
train	bigD13C	4	lon_-111.72_lat_+035.30	Dsb	ENF	-111.72	35.30	2511.60
train	bigD13C	1	lon_-112.05_lat_+039.92	Bsk	ENF	-112.05	39.92	1966.20
train	bigD13C	3	lon_-112.15_lat_+034.70	Bsk	ENF	-112.15	34.70	2179.00
train	bigD13C	2	lon_-112.18_lat_+035.98	Bsk	ENF	-112.18	35.98	1988.96

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
train	bigD13C	1	lon_-112.95_lat_+037.02	Bsk	ENF	-112.95	37.02	1639.00
train	bigD13C	1	lon_-113.30_lat_+037.33	Bsk	ENF	-113.30	37.33	1342.20
train	bigD13C	2	lon_-113.82_lat_+047.92	Dfc	ENF	-113.82	47.92	1032.08
train	bigD13C	1	lon_-115.35_lat_+046.96	Dsb	ENF	-115.35	46.96	1541.80
train	bigD13C	18	lon_-116.45_lat_+047.16	Dsb	ENF	-116.45	47.16	873.00
train	bigD13C	13	lon_-119.82_lat_+034.50	Csb	ENF	-119.82	34.50	627.00
train	bigD13C	1	lon_-121.80_lat_+046.80	Dfc	ENF	-121.80	46.80	1644.00
train	bigD13C	1	lon_-122.98_lat_+038.40	Csb	ENF	-122.98	38.40	279.00
train	bigD13C	2	lon_-123.30_lat_+044.68	Csb	ENF	-123.30	44.68	326.00
train	bigD13C	2	lon_-123.52_lat_+044.52	Csb	ENF	-123.52	44.52	468.64
train	bigD13C	1	lon_-134.33_lat_+058.30	Dfc	ENF	-134.33	58.30	678.40
train	bigD13C	2	lon_-135.26_lat_+057.10	Dfc	ENF	-135.26	57.10	485.20
train	bigD13C	1	lon_-137.58_lat_+060.76	Dsc	ENF	-137.58	60.76	579.52
train	bigD13C	1	lon_-141.50_lat_+064.25	Dsc	ENF	-141.50	64.25	731.00
train	bigD13C	1	lon_-145.68_lat_+063.94	Dfc	ENF	-145.68	63.94	430.84
train	bigD13C	1	lon_-145.89_lat_+063.70	Dfc	ENF	-145.89	63.70	561.00
train	bigD13C	1	lon_-148.10_lat_+066.20	Dsc	ENF	-148.10	66.20	100.00
train	bigD13C	1	lon_-155.80_lat_+058.55	Dfc	ENF	-155.80	58.55	28.00
train	bigD13C	1	lon_-163.73_lat_+064.93	Dfc	ENF	-163.73	64.93	68.52
train	bigD13C	12	lon_+015.80_lat_-022.70	Bwh	GRA	15.80	-22.70	1577.00
train	bigD13C	1	lon_+049.37_lat_+069.02	Et	GRA	49.37	69.02	77.76
train	bigD13C	1	lon_+103.82_lat_+036.27	Bsk	GRA	103.82	36.27	1838.32
train	bigD13C	1	lon_+105.63_lat_+038.60	Bwk	GRA	105.63	38.60	1356.20
train	bigD13C	1	lon_+105.65_lat_+039.02	Bwk	GRA	105.65	39.02	1413.00
train	bigD13C	1	lon_+106.60_lat_+038.12	Bsk	GRA	106.60	38.12	1280.40
train	bigD13C	1	lon_+117.53_lat_-034.63	Csb	GRA	117.53	-34.63	219.52
train	bigD13C	2	lon_+123.62_lat_-027.92	Bwh	GRA	123.62	-27.92	402.56
train	bigD13C	1	lon_+125.15_lat_-027.05	Bwh	GRA	125.15	-27.05	457.00
train	bigD13C	2	lon_+125.56_lat_-027.00	Bwh	GRA	125.56	-27.00	403.60
train	bigD13C	1	lon_+125.70_lat_-026.98	Bwh	GRA	125.70	-26.98	449.80
train	bigD13C	2	lon_+126.05_lat_-026.98	Bwh	GRA	126.05	-26.98	446.60
train	bigD13C	2	lon_+126.23_lat_-027.00	Bwh	GRA	126.23	-27.00	419.40
train	bigD13C	2	lon_+126.25_lat_-027.01	Bwh	GRA	126.25	-27.01	431.60
train	bigD13C	1	lon_+127.01_lat_-025.83	Bwh	GRA	127.01	-25.83	513.00
train	bigD13C	1	lon_+130.58_lat_-025.23	Bwh	GRA	130.58	-25.23	576.80
train	bigD13C	33	lon_+170.50_lat_-045.30	Cfb	GRA	170.50	-45.30	302.00
train	bigD13C	3	lon_-001.96_lat_+040.77	Cfb	GRA	-1.96	40.77	1223.44
train	bigD13C	2	lon_-006.62_lat_+040.88	Csa	GRA	-6.62	40.88	711.84
train	bigD13C	2	lon_-020.28_lat_+064.30	Et	GRA	-20.28	64.30	95.20
train	bigD13C	3	lon_-042.52_lat_-022.87	Aw	GRA	-42.52	-22.87	26.88
train	bigD13C	2	lon_-069.25_lat_+009.42	Aw	GRA	-69.25	9.42	179.20
train	bigD13C	3	lon_-089.64_lat_+045.50	Dfb	GRA	-89.64	45.50	454.40
train	bigD13C	4	lon_-104.88_lat_+041.18	Bsk	GRA	-104.88	41.18	1897.92
train	bigD13C	1	lon_-145.73_lat_+064.03	Dfc	GRA	-145.73	64.03	359.92
train	bigD13C	2	lon_-135.33_lat_+059.60	Et	MF	-135.33	59.60	121.00
train	bigD13C	1	lon_-149.61_lat_+063.97	Dfc	MF	-149.61	63.97	768.44

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
train	bigD13C	1	lon_+011.10_lat_+048.30	Dfb	WSA	11.10	48.30	528.00
train	bigD13C	1	lon_+115.74_lat_-033.01	Csa	WSA	115.74	-33.01	19.92
train	bigD13C	3	lon_+118.47_lat_-033.16	Bsk	WSA	118.47	-33.16	306.88
train	bigD13C	2	lon_+121.97_lat_-028.76	Bwh	WSA	121.97	-28.76	439.08
train	bigD13C	1	lon_-115.31_lat_+044.17	Dsc	WSA	-115.31	44.17	1757.08
train	bigD13C	1	lon_-151.43_lat_+063.45	Dfc	WSA	-151.43	63.45	588.80
test	gpp	1887	IT-Noe	-	CSH	8.15	40.61	25.00
test	gpp	3740	CA-Cbo	Dfb	DBF	-79.93	44.32	120.00
test	gpp	2885	FR-Fon	Cfb	DBF	2.78	48.48	103.00
test	gpp	1922	IT-Col	Cfa	DBF	13.59	41.85	1560.00
test	gpp	2082	IT-Ro2	Csa	DBF	11.92	42.39	160.00
test	gpp	120	AU-Cum	Cfa	EBF	150.72	-33.61	200.00
test	gpp	21	AU-Tum	Cfb	EBF	148.15	-35.66	1200.00
test	gpp	2082	IT-Cpz	Csa	EBF	12.38	41.71	68.00
test	gpp	2385	CA-Qfo	Dfc	ENF	-74.34	49.69	382.00
test	gpp	8032	DE-Tha	Cfb	ENF	13.57	50.96	380.00
test	gpp	2849	IL-Yat	Bsh	ENF	35.05	31.34	664.00
test	gpp	2587	IT-SR2	Csa	ENF	10.29	43.73	4.00
test	gpp	3607	US-Ho2	Dfb	ENF	-68.75	45.21	61.00
test	gpp	1662	US-Me2	Csb	ENF	-121.56	44.45	1253.00
test	gpp	3670	AT-Neu	Dfc	GRA	11.32	47.12	970.00
test	gpp	139	AU-Stp	Bsh	GRA	133.35	-17.15	252.00
test	gpp	2108	CH-Aws	Et	GRA	9.79	46.58	2014.00
test	gpp	3229	DE-RuR	Cfb	GRA	6.30	50.62	514.70
test	gpp	3107	IT-MBo	Dfb	GRA	11.05	46.01	1550.00
test	gpp	1649	US-KLS	Cfa	GRA	-97.57	38.77	373.00
test	gpp	2328	US-Ro4	Dfa	GRA	-93.07	44.68	274.00
test	gpp	2156	US-SRG	Bsk	GRA	-110.83	31.79	1291.00
test	gpp	4854	US-Seg	Bsk	GRA	-106.70	34.36	1596.00
test	gpp	3256	CA-Gro	Dfb	MF	-82.16	48.22	340.00
test	gpp	5123	CH-Lae	Cfb	MF	8.37	47.48	645.00
test	gpp	3961	FR-FBn	Csa	MF	5.68	43.24	436.00
test	gpp	2223	ES-Agu	Bsk	OSH	-2.03	36.94	195.00
test	gpp	3116	ES-LJu	Csa	OSH	-2.75	36.93	1622.00
test	gpp	2845	US-ICl	Et	OSH	-149.30	68.61	940.00
test	gpp	1931	US-JoI	Bwk	OSH	-106.64	32.58	1188.00
test	gpp	4354	US-Whs	Bsk	OSH	-110.05	31.74	1370.00
test	gpp	60	AU-DaS	Aw	SAV	131.39	-14.16	108.00
test	gpp	2078	ES-LM1	Csa	SAV	-5.78	39.94	261.00
test	gpp	4752	US-Wjs	Bsk	SAV	-105.86	34.43	1931.00
test	gpp	303	AU-Gin	Csa	WSA	115.65	-31.38	51.00
test	gpp	133	AU-How	Aw	WSA	131.15	-12.50	41.00
test	gpp	4240	US-Mpj	Bsk	WSA	-106.24	34.44	2196.00
test	gpp	3539	US-SRM	Bsk	WSA	-110.87	31.82	1120.00
test	vj	14	lon_+012.83_lat_+006.17	Aw	CSH	12.83	6.17	819.28
test	vj	7	lon_+150.74_lat_-033.61	Cfa	CSH	150.74	-33.61	23.12

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
test	vj	1	lon_+010.50_lat_+049.70	Dfb	DBF	10.50	49.70	420.00
test	vj	4	lon_+012.82_lat_+006.16	Aw	DBF	12.82	6.16	844.52
test	vj	4	lon_+027.08_lat_+058.38	Dfb	DBF	27.08	58.38	38.40
test	vj	4	lon_-002.45_lat_+007.14	Aw	DBF	-2.45	7.14	273.60
test	vj	7	lon_-003.15_lat_+010.94	Aw	DBF	-3.15	10.94	258.20
test	vj	2	lon_-005.03_lat_+006.22	Aw	DBF	-5.03	6.22	83.60
test	vj	15	lon_-080.21_lat_+043.50	Dfb	DBF	-80.21	43.50	329.80
test	vj	22	lon_-085.60_lat_+010.90	Aw	DBF	-85.60	10.90	257.00
test	vj	11	lon_-086.41_lat_+039.32	Dfa	DBF	-86.41	39.32	265.04
test	vj	44	lon_+101.27_lat_+021.92	Cwa	EBF	101.27	21.92	572.52
test	vj	42	lon_+101.58_lat_+021.61	Cwa	EBF	101.58	21.61	770.20
test	vj	1	lon_+114.04_lat_+004.18	Af	EBF	114.04	4.18	66.88
test	vj	25	lon_-071.49_lat_-013.03	Et	EBF	-71.49	-13.03	1075.44
test	vj	10	lon_-071.97_lat_-002.48	Af	EBF	-71.97	-2.48	120.92
test	vj	27	lon_-072.91_lat_-003.25	Af	EBF	-72.91	-3.25	114.00
test	vj	9	lon_-072.97_lat_-003.37	Af	EBF	-72.97	-3.37	101.52
test	vj	34	lon_-073.44_lat_-003.95	Af	EBF	-73.44	-3.95	132.80
test	vj	29	lon_-077.71_lat_-006.54	Cfb	EBF	-77.71	-6.54	3431.36
test	vj	1	lon_+008.70_lat_+050.60	Cfb	GRA	8.70	50.60	170.00
test	vj	2	lon_-003.22_lat_+055.85	Cfb	GRA	-3.22	55.85	201.00
test	vj	1	lon_-000.77_lat_+044.70	Cfb	WSA	-0.77	44.70	63.80
test	vj	2	lon_-089.43_lat_+043.04	Dfa	WSA	-89.43	43.04	279.36
test	bigD13C	19	lon_+015.50_lat_+078.10	Et	BSV	15.50	78.10	286.00
test	bigD13C	1	lon_+071.00_lat_+072.50	Et	BSV	71.00	72.50	23.00
test	bigD13C	1	lon_+095.85_lat_+040.37	Bwk	BSV	95.85	40.37	1264.80
test	bigD13C	4	lon_+120.58_lat_-031.58	Bwk	BSV	120.58	-31.58	439.52
test	bigD13C	3	lon_+121.25_lat_-029.24	Bwh	BSV	121.25	-29.24	471.80
test	bigD13C	1	lon_+121.26_lat_-029.24	Bwh	BSV	121.26	-29.24	462.92
test	bigD13C	6	lon_+122.73_lat_-028.23	Bwh	BSV	122.73	-28.23	485.60
test	bigD13C	1	lon_+126.40_lat_-026.53	Bwh	BSV	126.40	-26.53	401.20
test	bigD13C	3	lon_+126.40_lat_-026.54	Bwh	BSV	126.40	-26.54	400.40
test	bigD13C	4	lon_+127.55_lat_-025.42	Bwh	BSV	127.55	-25.42	589.00
test	bigD13C	2	lon_+129.06_lat_-024.87	Bwh	BSV	129.06	-24.87	606.08
test	bigD13C	9	lon_+130.92_lat_-016.12	Bsh	BSV	130.92	-16.12	97.20
test	bigD13C	16	lon_-070.60_lat_-026.12	Bwk	BSV	-70.60	-26.12	324.80
test	bigD13C	1	lon_-135.13_lat_+059.62	Et	BSV	-135.13	59.62	948.28
test	bigD13C	5	lon_+015.20_lat_-023.00	Bwh	CSH	15.20	-23.00	612.00
test	bigD13C	6	lon_+017.00_lat_-028.17	Bwh	CSH	17.00	-28.17	595.00
test	bigD13C	2	lon_+019.00_lat_-032.00	Bsk	CSH	19.00	-32.00	264.00
test	bigD13C	2	lon_+019.28_lat_-033.98	Csb	CSH	19.28	-33.98	529.36
test	bigD13C	1	lon_+019.80_lat_-033.75	Bsk	CSH	19.80	-33.75	397.00
test	bigD13C	1	lon_+040.00_lat_-001.00	Bsh	CSH	40.00	-1.00	109.00
test	bigD13C	4	lon_+119.90_lat_-032.05	Bsk	CSH	119.90	-32.05	390.00
test	bigD13C	3	lon_+120.82_lat_-031.51	Bwk	CSH	120.82	-31.51	436.88
test	bigD13C	1	lon_+121.06_lat_-029.76	Bwh	CSH	121.06	-29.76	418.92
test	bigD13C	8	lon_+130.75_lat_-017.30	Bsh	CSH	130.75	-17.30	216.00

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
test	bigD13C	8	lon_+130.87_lat_-011.77	Aw	CSH	130.87	-11.77	89.00
test	bigD13C	11	lon_+132.08_lat_-014.30	Aw	CSH	132.08	-14.30	171.40
test	bigD13C	1	lon_+151.88_lat_-027.02	Cfa	CSH	151.88	-27.02	481.20
test	bigD13C	13	lon_+153.02_lat_-027.13	Cfa	CSH	153.02	-27.13	5.92
test	bigD13C	1	lon_+172.28_lat_-043.39	Cfb	CSH	172.28	-43.39	164.52
test	bigD13C	4	lon_-041.98_lat_-022.82	Aw	CSH	-41.98	-22.82	7.84
test	bigD13C	53	lon_-070.43_lat_-024.96	Bwk	CSH	-70.43	-24.96	1260.08
test	bigD13C	3	lon_-103.08_lat_+029.40	Bwh	CSH	-103.08	29.40	932.00
test	bigD13C	3	lon_-104.43_lat_+032.08	Bsk	CSH	-104.43	32.08	1141.64
test	bigD13C	6	lon_-110.12_lat_+037.67	Bwk	CSH	-110.12	37.67	1756.20
test	bigD13C	1	lon_-110.13_lat_+031.57	Bsk	CSH	-110.13	31.57	1248.16
test	bigD13C	3	lon_-110.15_lat_+031.73	Bsk	CSH	-110.15	31.73	1240.00
test	bigD13C	5	lon_-110.22_lat_+034.30	Bsk	CSH	-110.22	34.30	1966.60
test	bigD13C	5	lon_-110.57_lat_+028.80	Bwh	CSH	-110.57	28.80	425.00
test	bigD13C	1	lon_-110.88_lat_+031.78	Bsk	CSH	-110.88	31.78	1156.00
test	bigD13C	2	lon_-111.43_lat_+034.22	Csa	CSH	-111.43	34.22	1189.08
test	bigD13C	2	lon_-112.75_lat_+037.05	Bsk	CSH	-112.75	37.05	1861.00
test	bigD13C	2	lon_-114.40_lat_+034.88	Bwh	CSH	-114.40	34.88	446.00
test	bigD13C	2	lon_-114.40_lat_+035.00	Bwh	CSH	-114.40	35.00	710.00
test	bigD13C	2	lon_-115.80_lat_+034.05	Bwh	CSH	-115.80	34.05	581.00
test	bigD13C	5	lon_-115.96_lat_+036.77	Bwk	CSH	-115.96	36.77	961.76
test	bigD13C	1	lon_-116.45_lat_+036.00	Bwh	CSH	-116.45	36.00	791.00
test	bigD13C	2	lon_-118.72_lat_+034.05	Csa	CSH	-118.72	34.05	292.40
test	bigD13C	1	lon_-135.86_lat_+057.49	Dfc	CSH	-135.86	57.49	160.16
test	bigD13C	2	lon_-136.11_lat_+059.28	Et	CSH	-136.11	59.28	561.36
test	bigD13C	1	lon_-147.60_lat_+065.70	Dfc	CSH	-147.60	65.70	741.00
test	bigD13C	1	lon_-149.39_lat_+063.21	Dfc	CSH	-149.39	63.21	652.72
test	bigD13C	1	lon_-150.55_lat_+062.70	Dfc	CSH	-150.55	62.70	785.00
test	bigD13C	1	lon_-154.91_lat_+059.75	Dfc	CSH	-154.91	59.75	47.40
test	bigD13C	6	lon_-155.93_lat_+019.77	Cfb	CSH	-155.93	19.77	638.40
test	bigD13C	1	lon_-156.76_lat_+062.88	Dfc	CSH	-156.76	62.88	418.36
test	bigD13C	1	lon_-162.28_lat_+066.86	Dfc	CSH	-162.28	66.86	8.12
test	bigD13C	1	lon_+009.30_lat_+050.98	Dfb	DBF	9.30	50.98	278.40
test	bigD13C	1	lon_+013.58_lat_+041.83	Csa	DBF	13.58	41.83	1026.92
test	bigD13C	2	lon_+014.55_lat_+046.25	Dfb	DBF	14.55	46.25	506.00
test	bigD13C	1	lon_+119.00_lat_-032.67	Bsk	DBF	119.00	-32.67	417.20
test	bigD13C	8	lon_+119.58_lat_-032.28	Bsk	DBF	119.58	-32.28	418.40
test	bigD13C	5	lon_+130.50_lat_+030.33	Cfa	DBF	130.50	30.33	1668.00
test	bigD13C	2	lon_+141.40_lat_+043.00	Dfb	DBF	141.40	43.00	114.00
test	bigD13C	20	lon_+146.15_lat_-032.97	Bsk	DBF	146.15	-32.97	191.60
test	bigD13C	2	lon_+146.20_lat_-034.13	Bsk	DBF	146.20	-34.13	212.60
test	bigD13C	5	lon_-003.50_lat_+041.06	Cfb	DBF	-3.50	41.06	1258.40
test	bigD13C	8	lon_-106.20_lat_+053.63	Dfc	DBF	-106.20	53.63	582.00
test	bigD13C	43	lon_-111.80_lat_+040.77	Dfb	DBF	-111.80	40.77	1906.40
test	bigD13C	2	lon_+137.70_lat_+071.00	Dfc	DNF	137.70	71.00	20.00
test	bigD13C	10	lon_+083.70_lat_+028.50	Cwa	EBF	83.70	28.50	2677.00

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
test	bigD13C	11	lon_+114.50_lat_+004.58	Af	EBF	114.50	4.58	34.80
test	bigD13C	11	lon_+114.52_lat_+004.66	Af	EBF	114.52	4.66	54.24
test	bigD13C	2	lon_+115.95_lat_-034.49	Csb	EBF	115.95	-34.49	158.60
test	bigD13C	1	lon_+116.00_lat_-034.00	Csb	EBF	116.00	-34.00	242.00
test	bigD13C	2	lon_+116.01_lat_-034.53	Csb	EBF	116.01	-34.53	112.44
test	bigD13C	3	lon_+116.25_lat_-031.89	Csa	EBF	116.25	-31.89	302.40
test	bigD13C	1	lon_+116.69_lat_-034.91	Csb	EBF	116.69	-34.91	124.88
test	bigD13C	1	lon_+117.29_lat_-034.97	Csb	EBF	117.29	-34.97	161.68
test	bigD13C	3	lon_+117.78_lat_-034.38	Csb	EBF	117.78	-34.38	295.92
test	bigD13C	1	lon_+143.92_lat_-006.17	Cfb	EBF	143.92	-6.17	2327.08
test	bigD13C	28	lon_+145.02_lat_-005.67	Af	EBF	145.02	-5.67	2477.20
test	bigD13C	1	lon_+145.40_lat_-016.17	Am	EBF	145.40	-16.17	203.80
test	bigD13C	1	lon_+145.43_lat_-016.10	Am	EBF	145.43	-16.10	451.20
test	bigD13C	1	lon_+145.63_lat_-017.28	Cwa	EBF	145.63	-17.28	762.36
test	bigD13C	2	lon_+146.63_lat_-042.68	Cfb	EBF	146.63	-42.68	1061.16
test	bigD13C	4	lon_+148.15_lat_-035.66	Cfb	EBF	148.15	-35.66	1275.40
test	bigD13C	19	lon_+151.30_lat_-033.58	Cfa	EBF	151.30	-33.58	75.60
test	bigD13C	1	lon_+151.96_lat_-026.88	Cfa	EBF	151.96	-26.88	491.96
test	bigD13C	26	lon_+152.83_lat_-028.03	Cfa	EBF	152.83	-28.03	284.64
test	bigD13C	3	lon_+152.87_lat_-026.75	Cfa	EBF	152.87	-26.75	410.20
test	bigD13C	5	lon_+169.33_lat_-043.75	Cfb	EBF	169.33	-43.75	385.40
test	bigD13C	5	lon_-053.00_lat_+005.00	Af	EBF	-53.00	5.00	163.00
test	bigD13C	104	lon_-054.95_lat_-002.85	Am	EBF	-54.95	-2.85	196.00
test	bigD13C	6	lon_-061.25_lat_+010.72	Af	EBF	-61.25	10.72	656.80
test	bigD13C	105	lon_-063.23_lat_-008.45	Am	EBF	-63.23	-8.45	89.00
test	bigD13C	7	lon_-065.00_lat_+002.00	Af	EBF	-65.00	2.00	165.00
test	bigD13C	49	lon_-065.78_lat_+018.30	Af	EBF	-65.78	18.30	614.00
test	bigD13C	13	lon_-065.82_lat_+018.32	Af	EBF	-65.82	18.32	453.00
test	bigD13C	25	lon_-071.00_lat_+008.50	Aw	EBF	-71.00	8.50	3290.00
test	bigD13C	1	lon_-079.70_lat_+009.10	Am	EBF	-79.70	9.10	64.00
test	bigD13C	1	lon_-159.53_lat_+022.05	Af	EBF	-159.53	22.05	791.20
test	bigD13C	1	lon_+020.33_lat_+067.81	Dfc	ENF	20.33	67.81	461.64
test	bigD13C	19	lon_-005.42_lat_+041.78	Bsk	ENF	-5.42	41.78	765.60
test	bigD13C	9	lon_-098.51_lat_+055.70	Dfc	ENF	-98.51	55.70	260.00
test	bigD13C	7	lon_-098.62_lat_+055.93	Dfc	ENF	-98.62	55.93	291.96
test	bigD13C	11	lon_-098.67_lat_+055.88	Dfc	ENF	-98.67	55.88	269.08
test	bigD13C	9	lon_-104.69_lat_+053.92	Dfc	ENF	-104.69	53.92	514.00
test	bigD13C	3	lon_-105.50_lat_+040.00	Dfb	ENF	-105.50	40.00	2620.00
test	bigD13C	3	lon_-110.95_lat_+039.90	Bsk	ENF	-110.95	39.90	2858.00
test	bigD13C	2	lon_-112.28_lat_+040.50	Bsk	ENF	-112.28	40.50	1801.00
test	bigD13C	1	lon_-113.32_lat_+037.50	Bsk	ENF	-113.32	37.50	1732.80
test	bigD13C	1	lon_-113.33_lat_+037.52	Bsk	ENF	-113.33	37.52	1853.24
test	bigD13C	2	lon_-114.17_lat_+046.70	Bsk	ENF	-114.17	46.70	1905.00
test	bigD13C	2	lon_-115.80_lat_+048.42	Dsb	ENF	-115.80	48.42	772.80
test	bigD13C	1	lon_-115.88_lat_+047.04	Dsb	ENF	-115.88	47.04	1648.28
test	bigD13C	1	lon_-116.72_lat_+046.83	Dsb	ENF	-116.72	46.83	944.88

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
test	bigD13C	9	lon_-116.79_lat_+048.35	Dsb	ENF	-116.79	48.35	1134.20
test	bigD13C	1	lon_-121.62_lat_+044.52	Dsb	ENF	-121.62	44.52	1088.12
test	bigD13C	5	lon_-122.06_lat_+037.01	Csb	ENF	-122.06	37.01	221.36
test	bigD13C	1	lon_-122.23_lat_+037.17	Csb	ENF	-122.23	37.17	402.80
test	bigD13C	6	lon_-123.63_lat_+045.13	Csb	ENF	-123.63	45.13	238.32
test	bigD13C	5	lon_-124.00_lat_+040.35	Csb	ENF	-124.00	40.35	174.00
test	bigD13C	1	lon_-134.55_lat_+060.56	Dsc	ENF	-134.55	60.56	714.20
test	bigD13C	1	lon_-135.34_lat_+059.50	Dsc	ENF	-135.34	59.50	217.60
test	bigD13C	2	lon_-135.63_lat_+059.38	Dsc	ENF	-135.63	59.38	131.08
test	bigD13C	1	lon_-142.12_lat_+062.48	Et	ENF	-142.12	62.48	970.36
test	bigD13C	1	lon_-143.29_lat_+061.38	Et	ENF	-143.29	61.38	450.84
test	bigD13C	1	lon_-148.06_lat_+065.20	Dfc	ENF	-148.06	65.20	754.00
test	bigD13C	1	lon_-149.36_lat_+060.28	Dfc	ENF	-149.36	60.28	242.92
test	bigD13C	1	lon_-149.90_lat_+064.78	Dfc	ENF	-149.90	64.78	115.60
test	bigD13C	1	lon_-152.09_lat_+063.66	Dfc	ENF	-152.09	63.66	238.84
test	bigD13C	1	lon_-152.56_lat_+058.55	Dfc	ENF	-152.56	58.55	40.20
test	bigD13C	5	lon_+004.78_lat_+052.48	Cfb	GRA	4.78	52.48	-2.28
test	bigD13C	1	lon_+008.90_lat_+048.08	Dfb	GRA	8.90	48.08	869.80
test	bigD13C	3	lon_+009.80_lat_+046.40	Et	GRA	9.80	46.40	2657.00
test	bigD13C	38	lon_+012.60_lat_+047.00	Dfc	GRA	12.60	47.00	2160.00
test	bigD13C	2	lon_+037.88_lat_+002.58	Bwh	GRA	37.88	2.58	616.76
test	bigD13C	1	lon_+100.60_lat_+038.78	Bwk	GRA	100.60	38.78	1586.00
test	bigD13C	1	lon_+103.58_lat_+036.17	Bsk	GRA	103.58	36.17	1708.00
test	bigD13C	1	lon_+104.05_lat_+036.65	Bsk	GRA	104.05	36.65	1932.00
test	bigD13C	1	lon_+104.92_lat_+037.43	Bwk	GRA	104.92	37.43	1445.40
test	bigD13C	1	lon_+105.22_lat_+037.45	Bsk	GRA	105.22	37.45	1322.60
test	bigD13C	1	lon_+106.43_lat_+038.33	Bwk	GRA	106.43	38.33	1165.00
test	bigD13C	9	lon_+117.32_lat_-035.03	Csb	GRA	117.32	-35.03	38.92
test	bigD13C	2	lon_+118.33_lat_-032.66	Csa	GRA	118.33	-32.66	276.52
test	bigD13C	2	lon_+120.48_lat_-028.57	Bwh	GRA	120.48	-28.57	479.52
test	bigD13C	1	lon_+121.25_lat_-029.50	Bwh	GRA	121.25	-29.50	378.00
test	bigD13C	3	lon_+122.57_lat_-028.40	Bwh	GRA	122.57	-28.40	502.80
test	bigD13C	3	lon_+122.58_lat_-028.39	Bwh	GRA	122.58	-28.39	512.28
test	bigD13C	1	lon_+123.38_lat_-027.90	Bwh	GRA	123.38	-27.90	461.40
test	bigD13C	3	lon_+125.24_lat_-027.04	Bwh	GRA	125.24	-27.04	449.04
test	bigD13C	1	lon_+125.59_lat_-027.00	Bwh	GRA	125.59	-27.00	402.40
test	bigD13C	1	lon_+126.28_lat_-026.37	Bwh	GRA	126.28	-26.37	468.32
test	bigD13C	1	lon_+127.86_lat_-025.30	Bwh	GRA	127.86	-25.30	532.80
test	bigD13C	1	lon_+129.84_lat_-025.07	Bwh	GRA	129.84	-25.07	618.04
test	bigD13C	1	lon_+172.30_lat_-043.10	Cfb	GRA	172.30	-43.10	802.00
test	bigD13C	1	lon_-044.00_lat_-022.90	Aw	GRA	-44.00	-22.90	560.00
test	bigD13C	4	lon_-066.83_lat_+010.33	Aw	GRA	-66.83	10.33	687.12
test	bigD13C	2	lon_-149.41_lat_+068.50	Et	GRA	-149.41	68.50	1247.80
test	bigD13C	1	lon_-165.61_lat_+064.58	Et	GRA	-165.61	64.58	125.00
test	bigD13C	1	lon_-135.03_lat_+058.79	Dfc	MF	-135.03	58.79	101.72
test	bigD13C	1	lon_-135.10_lat_+059.55	Et	MF	-135.10	59.55	781.00

Data set	Target variable	N obs.	Site name	Climate	Vegetation type	Lon.	Lat.	Elev.
test	bigD13C	1	lon_+007.52_lat_+047.47	Dfb	WSA	7.52	47.47	587.56
test	bigD13C	7	lon_+022.00_lat_+040.43	Bsk	WSA	22.00	40.43	1113.60
test	bigD13C	2	lon_+121.45_lat_-030.64	Bwh	WSA	121.45	-30.64	354.60
test	bigD13C	2	lon_-003.75_lat_+040.50	Bsk	WSA	-3.75	40.50	663.00
test	bigD13C	6	lon_-005.10_lat_+037.01	Csa	WSA	-5.10	37.01	462.80
test	bigD13C	1	lon_-154.28_lat_+060.61	Dfc	WSA	-154.28	60.61	595.48
test	bigD13C	1	lon_-159.93_lat_+068.16	Dsc	WSA	-159.93	68.16	212.48

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