

Table S1. Constants used to calculate the phosphorus cycle

Table S2. Percent change in GPP and in the amount of leaf phosphorus (pleaf) in response to changes in four meteorological factors, for different vegetation types

Table S3. Fitting of r_{pleaf} at each site and for five biomes, and model performance for each biome (optimal parameter marked with ※)

Table S4. Data used to validate model simulation of gross primary productivity (GPP) and soil organic carbon (SOC)

Table S5 Data on total biomass taken from global 933 sites and used to validate model performance

Table S1. Constants used to calculate the phosphorus cycle

Parameter	Unit	Values by PFT or Constants												Explanation	Ref.
		1	2	3	4	5	6	7	8	9	10	11	12		
$r_{p,leaf}$	yr	1.0	1.0	1.0	2.0	1.0	2.5	1.0	1.0	1.25	1.0	1.25	1.0	residence time of carbon of plant	[115]
$r_{p,wood}$	yr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		[115]
$r_{p,root}$	yr	25.0	25.0	25.0	50.0	50.0	100.0	100.0	100.0	5.0	5.0	1000.0	1000.0		[115]
u_{mvmax}	yr ⁻¹	0.1	1.6	0.1	0.1	1.6	0.1	1.6	0.1	1.6	1.6	1.6	1.6	the maximum specific biochemical P mineralization rate	[115]
μ_{sorb}	day ⁻¹							1.8E-05						absorbed P pool turnover rate	[69]
μ_{ssrb}	day ⁻¹							1.8E-05						strong absorbed P pool turnover rate	[69]
$ncostppro$	g N g P ⁻¹							15.0						the critical value of N cost of root uptake above which phosphate production	[69]
$pleach$	/							0.04						fraction of labile P lost by leaching	[70]

PFT, plant function types: 1, tropical broadleaf evergreen tree; 2, tropical broadleaf drought-deciduous trees; 3, warm-temperate broadleaf evergreen tree; 4, temperate conifer evergreen tree; 5, temperate broadleaf cold-deciduous tree; 6, boreal conifer evergreen tree; 7, boreal broadleaf cold-deciduous tree; 8, boreal conifer cold-deciduous tree; 9, evergreen shrub; 10, deciduous shrub; 11, warm grass (C4); 12, cool grass (C3).

Table S2. Percent change in GPP and in the amount of leaf phosphorus (pleaf) in response to changes in four meteorological factors, for different vegetation types

Vegetation Type	cloud cover(%)				near-surface temperature(°C)				precipitation(mm)				vapor pressure(hPa)			
	GPP-20%	pleaf-20%	GPP+20%	pleaf+20%	GPP-2°	pleaf-2°	GPP+2°	pleaf+2°	GPP-20%	pleaf-20%	GPP+20%	pleaf+20%	GPP-20%	pleaf-20%	GPP+20%	pleaf+20%
TroDBF	3.87	4.90	-6.39	-13.87	8.22	4.78	4.79	8.43	-7.50	-8.30	4.72	1.38	-10.28	-9.95	10.12	8.20
TroEBF	0.62	0.01	-1.25	-1.23	-6.70	55.40	-7.37	-10.62	-6.41	-7.13	4.99	3.49	-5.19	-4.73	4.59	2.64
	-23.92	-35.12	25.65	80.76	22.02	68.11	18.59	-39.61	-14.98	-18.97	10.65	15.33	-33.61	-41.03	34.50	49.90
	-30.08	-19.78	27.24	54.09	23.79	69.96	17.52	-30.21	-17.50	-5.30	13.02	12.15	-39.45	-30.52	44.06	50.18
	-6.74	-10.33	-12.88	-1.44	8.44	12.15	20.59	-33.50	-19.36	-21.19	4.90	5.78	-35.00	-36.31	9.43	7.60
	5.14	4.48	-5.36	-12.85	10.41	2.53	13.53	-20.30	-7.77	-8.82	4.85	0.34	-11.93	-12.13	7.72	-2.02
	-8.64	-11.14	15.19	33.89	25.23	49.10	15.57	-30.70	-11.10	-12.91	10.25	13.18	-27.13	-28.98	27.89	33.96
	10.21	8.00	-10.45	-16.96	4.56	7.06	8.72	-6.38	-5.03	-5.42	2.96	2.54	-11.92	-9.30	10.52	7.72
	-7.63	-9.13	5.45	19.47	12.53	21.93	12.06	-24.47	-11.74	-11.39	7.37	7.54	-23.46	-23.29	19.81	21.42
TemEBF	0.14	-1.18	0.02	1.94	3.66	4.79	-0.07	-8.10	-5.23	-9.19	4.12	5.21	-4.47	-5.05	5.66	5.02
	-0.52	-2.44	0.69	4.79	5.82	10.59	-0.85	-10.24	-10.53	-16.59	7.42	10.54	-5.80	-7.66	7.10	8.22
	-2.19	-3.63	5.67	9.64	22.56	35.60	11.36	-12.51	-15.96	-20.25	12.62	17.28	-16.71	-17.58	19.32	20.70
	1.06	0.53	-1.02	-1.28	13.86	85.64	8.96	4.50	-2.61	-4.28	3.25	1.21	0.10	-0.36	0.78	0.81
	-1.26	-2.71	1.54	5.54	15.84	23.03	0.66	-18.71	-8.80	-13.74	8.37	11.44	-12.77	-15.48	17.61	20.61
	0.64	-0.72	1.06	2.52	25.71	22.80	17.23	1.36	-12.07	-13.64	8.82	9.78	-14.62	-13.65	15.54	13.71
	-0.35	-1.69	1.32	3.86	9.95	1.86	6.21	-7.28	-9.20	-12.95	7.43	9.24	-9.05	-9.96	11.00	11.51
TemDBF	-1.79	-2.83	1.82	5.69	20.18	22.15	13.85	-16.85	-21.94	-24.29	19.96	22.81	-17.86	-18.02	26.60	24.81

	1.79	2.18	-1.96	-5.31	-0.65	-6.83	-1.91	-1.03	-3.30	-1.35	1.04	-3.23	-8.11	-5.63	5.95	0.01
	1.50	0.76	-2.22	-2.62	-2.09	-6.43	0.58	-8.11	-9.62	-10.46	6.01	5.39	-13.31	-12.88	12.32	9.77
	1.45	-0.85	-1.87	0.67	4.50	10.38	8.67	-8.10	-4.02	-10.97	3.52	6.41	-9.09	-11.37	10.24	11.71
	0.85	-0.96	-0.90	1.74	3.56	2.23	15.28	-0.23	-9.64	-11.61	8.13	8.87	-13.06	-12.06	15.48	13.27
	0.09	-2.02	-0.27	3.82	8.67	15.17	14.89	-9.16	-13.33	-18.56	8.28	11.52	-16.09	-17.41	17.57	18.46
	0.97	3.01	-1.28	-6.29	-2.19	-7.59	0.42	6.63	-2.44	2.36	0.64	-4.66	-8.84	-4.13	7.84	2.56
	-0.82	0.30	1.83	0.49	-2.91	-5.73	2.61	5.40	-5.92	2.22	2.38	-7.82	-10.49	-1.90	9.15	-2.04
					-	-										
	7.93	9.00	-15.50	-26.81	11.16	16.04	-4.61	1.24	1.54	5.26	-0.44	-6.49	-6.10	-0.10	2.91	-4.86
	0.57	-1.21	-0.63	2.27	22.20	14.14	19.34	4.94	-10.46	-11.93	7.58	8.45	-13.90	-12.40	16.49	13.89
	1.62	3.59	-1.78	-7.18	-3.99	-9.44	1.78	9.23	-1.61	-0.69	0.95	-1.35	-8.78	-4.25	7.03	2.99
	-2.31	-1.04	0.20	1.04	-0.68	-4.24	1.91	1.46	-2.58	-0.39	0.24	-2.09	-10.37	-6.71	7.46	2.75
							-									
	-3.56	-5.35	3.05	10.31	6.65	5.41	12.76	-18.77	-12.42	-12.33	8.69	5.42	-14.03	-11.24	14.25	7.49
							-									
	-6.27	-8.60	4.35	14.61	6.92	7.32	18.99	-32.66	-14.81	-16.49	7.95	9.01	-30.27	-31.46	21.79	18.02
						-	-									
	-4.56	-3.15	4.81	6.37	1.80	14.40	15.98	23.44	-11.08	-4.00	6.58	-0.78	-15.64	-1.35	14.93	-2.05
	-0.17	-0.48	-0.69	-0.08	3.39	0.41	1.67	-2.84	-8.11	-7.55	5.43	3.43	-13.06	-10.06	12.67	7.78
	-1.22	-0.56	1.18	2.83	7.10	19.18	17.40	-17.01	-22.21	-24.57	18.92	23.88	-3.22	-1.92	3.66	3.44
							-									
	-9.14	-16.07	8.18	33.06	20.42	-6.76	13.66	-28.04	-3.60	-13.45	5.50	11.92	-18.67	-24.36	29.44	41.04
	3.62	3.30	-4.12	-8.50	8.66	2.30	4.17	-8.10	-4.97	-5.31	2.71	-3.29	-12.84	-11.28	12.46	2.96
	-0.65	-1.34	0.50	2.46	5.15	5.70	-5.92	-8.17	-2.38	-2.84	2.73	3.80	-10.51	-9.13	10.39	8.71
	-6.93	-0.16	7.44	-1.08	1.87	33.06	-9.66	-17.66	-30.83	-39.16	28.31	37.15	-7.87	-12.95	11.57	22.74
							-									
	-7.43	-2.39	8.09	3.22	4.82	45.42	10.68	-37.09	-33.23	-48.61	29.74	41.15	-11.48	-21.98	17.97	42.87
						-										
	-0.59	-0.83	7.87	5.75	12.46	11.65	13.16	2.11	-2.47	-5.12	3.16	2.94	-9.27	-8.31	10.07	7.84
					-											
	1.22	1.76	-1.55	-3.59	13.61	13.35	1.88	-19.56	-2.87	-8.44	2.64	-8.07	-11.06	-8.06	10.27	6.61
TemENF																

					-	160.9										
	1.45	2.83	-1.61	-5.82	15.93	7	4.31	9.76	-2.14	2.23	0.35	-3.62	-9.36	-3.26	8.69	3.62
	-1.19	0.63	0.45	-2.18	5.18	-7.79	-0.70	8.09	-5.44	-2.63	3.97	1.88	-12.02	-2.75	10.91	2.48
						-	-									
	2.02	2.80	-2.30	-6.17	-6.92	10.86	11.64	-5.78	-2.33	0.78	0.32	-3.47	-8.52	-2.98	5.18	-0.01
	5.41	4.55	-6.32	-9.62	-9.55	-6.89	5.77	6.54	0.54	5.39	-1.81	-2.52	-11.05	-6.98	6.16	2.99
						-										
	1.53	3.52	-1.74	-7.19	-4.71	10.24	2.34	10.17	-1.41	-0.51	0.91	-0.78	-9.00	-4.32	7.28	3.05
					-	-	-									
	3.54	6.40	-5.16	-12.89	15.90	46.67	14.82	6.23	1.11	11.69	-12.85	-6.25	-12.07	-4.54	8.65	4.27
						-										
	3.19	4.66	-4.00	-10.51	-5.53	10.79	2.26	5.84	-2.13	0.34	0.21	-3.77	-8.31	-3.65	5.36	-1.03
						-										
	2.74	5.18	-3.32	-10.59	-5.05	10.60	3.83	13.71	-0.06	5.43	-0.06	-5.63	-7.64	0.34	5.76	-1.67
	2.74	2.30	-3.14	-4.76	-4.66	-1.33	12.78	-81.54	1.03	-12.91	0.39	1.16	-7.56	-19.78	9.32	11.53
	0.02	0.98	0.03	-2.09	-0.95	9.20	0.05	-9.44	-6.67	-8.10	5.01	5.09	-10.03	-8.58	10.18	9.50
BF							-									
	-5.04	-6.99	3.20	12.04	8.45	12.39	19.98	-31.61	-23.62	-26.92	12.93	15.13	-31.69	-33.63	20.53	20.77
						-										
	0.76	2.11	-2.54	-5.46	-3.68	12.11	-0.66	10.34	-3.05	-1.22	1.33	-0.35	-9.37	0.61	6.33	-0.20
						-										
	-7.16	-6.42	5.14	13.38	1.35	31.58	17.31	-30.95	-27.09	-21.31	11.73	15.65	-20.60	-30.20	16.79	36.58
	0.53	2.62	-0.79	-4.38	-6.93	13.89	-1.05	-12.68	-7.49	-2.92	1.47	0.94	-8.65	-19.73	6.64	23.74
						-										
	-5.33	-6.71	2.11	11.51	-3.05	26.64	14.43	-29.79	-23.99	-20.83	6.52	12.38	-17.99	-29.98	11.64	32.28
					-											
	1.47	2.87	-2.40	-7.19	12.38	16.50	0.40	-18.67	-8.51	-6.23	1.70	4.94	-11.95	-24.46	5.74	25.98
	-0.07	0.94	-1.22	-3.89	-9.66	19.11	-4.31	-22.69	-11.97	-9.70	3.45	5.54	-13.64	-26.11	7.76	26.58
						-										
	0.67	1.50	-2.02	-4.69	-2.79	17.25	-2.22	0.30	-6.37	-5.64	1.53	-0.49	-10.38	-7.58	6.85	2.48

					-											
	0.21	4.72	-1.22	-11.53	13.53	18.73	-0.33	-26.35	-3.06	7.27	2.12	-1.17	-12.38	0.36	9.67	0.22
							-									
	-9.49	-6.36	8.07	9.65	20.89	7.74	17.28	-10.45	-25.78	-23.75	23.82	18.58	-20.50	-18.05	31.33	22.47
							-									
	-3.17	-1.75	-1.05	1.73	-9.87	23.10	12.96	-37.52	-15.75	-15.09	4.81	5.62	-23.59	-40.26	8.71	30.98
	-2.42	-1.23	0.66	1.02	-2.84	12.76	-8.19	-19.10	-14.24	-11.49	6.49	6.98	-16.43	-20.82	12.00	20.17
Grass	-1.09	-2.64	1.10	4.80	15.58	15.29	-0.76	-17.25	-13.55	-20.31	12.65	17.77	-13.63	-16.28	16.67	19.42
	-0.68	-2.21	0.65	4.40	15.01	24.30	13.44	-13.07	-17.88	-22.17	16.64	21.11	-15.86	-16.96	21.51	23.87
	-5.68	-8.51	6.01	17.94	25.37	43.99	7.12	-33.66	-18.07	-23.15	10.78	14.58	-18.10	-21.67	25.11	31.30
	-11.75	-14.62	12.28	30.55	24.25	36.69	-1.32	-32.70	-20.61	-23.77	6.12	7.26	-12.23	-13.78	17.72	20.35
	2.18	1.66	-5.43	-6.86	7.18	9.58	-6.58	-14.45	-2.05	-2.38	2.73	3.08	-5.56	-2.94	4.43	2.49
							-									
	-4.44	-7.03	3.50	12.71	-4.41	0.19	19.19	-15.44	-16.63	-21.56	8.76	9.38	-5.45	-4.86	7.34	7.30
	-2.10	-3.80	2.24	7.83	8.76	16.77	22.16	-13.79	-23.72	-27.25	20.78	25.85	-6.76	-7.30	9.34	10.06
	-1.32	-2.97	1.41	6.08	8.74	16.51	23.53	-11.52	-20.71	-24.47	17.08	21.13	-7.55	-8.10	10.28	10.86
	-0.61	-2.75	0.64	5.58	16.37	24.37	11.62	-12.85	-20.71	-23.93	18.33	23.65	-16.90	-17.74	22.32	24.09
	-0.39	-2.40	0.52	4.96	14.91	22.42	19.36	-11.03	-21.70	-25.33	18.43	23.04	-15.90	-16.78	21.25	22.72
	-0.20	-2.16	0.30	5.06	12.98	23.32	19.77	-10.06	-19.84	-23.16	18.19	23.82	-13.69	-14.64	18.11	19.30
	0.00	-1.91	0.12	4.31	12.32	23.09	20.12	-10.02	-20.00	-23.20	17.68	23.74	-13.53	-14.45	17.71	18.62
							-									
	-14.68	-16.26	19.16	30.58	-2.38	3.04	22.56	-28.79	-32.00	-35.15	35.27	34.27	-3.64	-3.05	5.06	4.15
	-0.31	-1.63	0.30	3.19	19.95	28.78	19.23	-6.34	-17.81	-19.96	16.01	18.00	-10.38	-10.98	14.15	14.96
	0.46	-0.38	-0.89	0.19	5.32	9.98	18.66	-4.75	-5.44	-7.23	3.06	3.72	-11.53	-10.20	10.94	9.46
	-9.45	-9.34	13.39	20.44	9.02	14.29	17.63	-4.04	-31.72	-35.15	34.74	37.94	-8.73	-8.16	11.26	10.21
	-0.94	-3.00	0.22	5.08	11.47	16.47	0.19	-14.24	-16.70	-19.31	8.61	10.20	-21.68	-23.04	21.96	22.97
	-7.12	-6.10	10.40	12.37	11.07	8.71	2.57	-10.83	-24.27	-25.88	24.04	23.91	-10.22	-8.92	13.35	11.08
	-2.11	-3.06	2.24	6.02	18.72	15.90	13.33	-7.70	-21.97	-23.08	19.87	20.18	-16.65	-16.15	23.83	21.71
					-	-	-									
	2.54	4.50	-3.40	-9.80	11.14	11.43	13.22	-8.64	0.65	6.14	-0.85	-5.26	-10.06	-6.62	7.99	2.57
	3.38	3.82	-4.07	-7.72	-7.43	12.67	11.93	-80.17	0.61	3.61	-0.65	-3.82	-10.59	-7.58	6.10	3.48

						-										
	5.49	7.57	-8.56	-18.09	-6.55	13.14	-6.85	0.85	-0.51	5.04	-0.48	-5.87	-6.75	0.48	4.44	-3.54
	6.38	5.66	-8.75	-12.37	-9.77	-9.78	-0.79	-7.58	1.14	5.46	-1.23	-5.95	-9.64	-6.46	5.71	2.02
						-	-									
	3.03	4.43	-4.71	-10.27	-6.10	11.40	17.57	-9.46	-2.17	2.69	0.40	-4.95	-8.23	-1.95	5.89	-1.35
						-	-									
	4.39	5.45	-6.00	-12.74	-5.02	11.62	11.07	-4.52	-2.72	1.58	0.21	-4.38	-7.12	-1.32	4.90	-2.07
	3.87	5.16	-5.20	-11.83	-8.73	-7.78	-5.70	-1.37	-1.31	2.07	-0.49	-5.09	-7.32	-2.97	4.84	-1.11
	1.51	2.81	-3.30	-7.78	-2.49	-9.53	-1.76	3.00	-3.46	-0.54	1.00	-3.68	-9.09	-3.25	6.01	-0.90
						-	-									
	1.18	0.40	-5.04	-4.95	-1.30	-6.34	16.66	-12.60	-5.62	-4.44	1.94	-0.21	-12.00	-7.53	7.33	3.29
						-	-									
	-10.55	-8.17	14.37	14.23	13.67	6.35	20.67	-21.30	-26.87	-24.77	28.97	23.07	-14.73	-11.56	22.39	15.30
						-	-									
	-2.72	-2.99	3.16	6.55	-3.25	-3.65	23.11	-17.47	-5.11	-4.30	3.38	2.06	-12.79	-9.04	9.81	5.76
	-1.39	-2.02	1.22	3.35	6.07	9.60	1.76	-14.39	-13.69	-14.46	11.40	11.62	-11.21	-9.79	12.59	10.94
Sava	0.55	0.51	-0.45	-1.29	7.67	0.95	11.05	-14.44	-7.11	-3.60	7.08	2.77	-10.56	-5.81	12.19	7.06
	-1.45	-2.35	1.45	4.69	12.64	17.98	22.14	-13.35	-22.41	-25.40	22.13	25.37	-9.48	-10.03	13.26	13.46
	-1.48	-2.71	1.50	5.34	15.55	20.13	5.13	-13.15	-19.00	-21.29	17.85	22.54	-14.39	-15.64	20.07	21.89
	0.33	-1.62	-1.35	1.88	10.31	18.45	13.25	-15.21	-16.79	-20.41	12.57	16.19	-11.11	-11.33	13.81	14.12
	1.36	-0.66	-2.31	-0.25	9.71	17.68	13.18	-14.54	-14.05	-17.23	11.49	14.35	-11.27	-11.48	13.64	13.78
	3.33	1.71	-4.60	-5.43	8.68	15.73	12.53	-12.25	-12.44	-14.92	8.87	10.13	-11.89	-11.76	13.58	12.82
	3.28	0.92	-5.99	-5.27	8.91	15.04	10.45	-12.84	-10.40	-13.48	7.27	10.45	-13.79	-13.11	14.53	12.95
	-11.66	-16.95	14.07	36.90	21.65	43.45	3.13	-29.36	-11.94	-16.14	5.46	6.92	-24.98	-28.58	39.92	42.33
						-	-									
	6.64	4.82	-7.39	-12.49	10.38	11.96	12.35	-19.86	-3.53	-4.67	1.97	2.17	-10.33	-11.94	9.30	8.25
	-6.20	-7.66	5.03	14.27	15.22	19.71	1.87	-22.40	-22.31	-23.04	19.74	21.69	-11.90	-11.49	16.37	15.00
	-1.54	-2.30	1.09	4.28	12.17	17.15	6.06	-15.61	-18.82	-19.91	13.65	15.02	-10.71	-9.19	13.44	12.40
	-0.62	-2.39	0.09	3.88	12.08	18.02	7.86	-16.64	-14.44	-16.37	11.64	13.42	-12.76	-12.76	16.37	15.82
Shrub	-1.27	-2.54	1.20	4.74	7.50	16.57	16.93	-16.28	-21.87	-24.08	20.72	24.42	-3.52	-3.19	3.79	3.48

	4.32	6.36	-4.40	-13.40	4.27	-3.10	5.37	3.27	10.19	9.20	-1.07	-5.94	-6.66	-1.70	4.62	-2.74
	-2.03	-3.64	2.18	7.58	8.88	16.90	12.01	-13.33	-21.72	-25.27	19.29	23.45	-6.79	-7.24	9.52	10.13
							-									
	-9.46	-7.48	11.88	16.49	24.96	21.82	10.03	-22.03	-24.68	-26.44	20.94	24.86	-22.07	-19.18	23.44	21.92
	0.47	-1.17	-0.51	2.21	6.83	10.44	21.93	-4.58	-10.05	-12.76	7.47	8.47	-14.20	-13.70	15.95	14.43
	-6.00	-0.58	7.20	-0.47	-2.70	19.05	-9.47	-57.50	-22.78	-29.76	21.73	24.16	-10.41	-20.27	14.94	31.55
							-									
	-2.24	-0.68	-0.97	-2.23	-8.80	7.13	14.23	-28.17	-16.84	-19.04	4.82	5.09	-18.07	-32.35	8.39	28.64
					-	-	-									
	-10.35	-4.02	0.66	-3.29	12.30	23.71	10.98	0.41	-22.75	-18.76	5.96	-0.16	-25.37	-18.41	10.17	-3.08
							-									
	-14.72	-6.69	17.30	13.49	16.76	9.15	18.16	-9.93	-22.36	-17.53	24.57	17.94	-23.58	-16.98	46.34	31.73
	-4.59	-2.27	3.84	2.79	5.04	8.25	-0.74	-16.46	-16.98	-18.27	13.83	13.59	-14.52	-14.78	15.24	15.12

TroEBF, tropical evergreen broadleaf forest; TroDBF, tropical deciduous broadleaf forest; TemEBF, temperate evergreen broadleaf forest; TemENF, temperate evergreen needleleaf forest; TemDBF, temperate deciduous broadleaf forest; BF, boreal forest; Grass, grassland; Sava, savanna; Shrub, shrubland. The mean values of each vegetation type are reported in the final row of each group.

Table S3. Fitting of r_{pleaf} at each site and for five biomes, and model performance for each biome (optimal parameter marked with ※)

No.	r_{pleaf}	r_{pleaf} Biome	Biome	R ²	RMSE	D	NO	Latitude (°)	Longitude (°)	Site name	Country
1	1.00	0.783※	Tropical Forest	0.65	4.11	0.05	36	23.1733	112.5361	Dinghushan	China
2	0.40			0.26	6.53	0.02	48	9.3181	-79.6346	Sardinilla	Panama
3	0.95			0.24	7.93	0.01	228	5.2685	-2.6942	Ankasa	Ghana
4	0.50	0.603※	Temperate Forest	0.87	7.25	0.02	228	45.8126	8.6336	Ispira ABC-IS	Italy
5	0.40			0.78	4.48	0.48	36	44.3869	142.3186	Moshiri Birch	Japan
6	0.95			0.77	3.96	0.05	12	46.6531	-91.0858	Mixed young	USA
7	0.60			0.73	6.06	0.47	132	47.4781	8.365	Laegern	Switzerland
8	0.10			0.71	5.45	0.49	36	46.6347	-91.0987	Mature	USA
9	1.00			0.71	2.27	0.06	60	49.0996	13.3047	Lackenbergl	Germany
10	0.90			0.70	7.81	0.48	192	39.3232	-86.4131	Morgan Monroe	USA
11	0.95			0.70	3.03	0.05	60	44.3233	-121.608	Metolius Young	USA
12	0.40			0.69	7.21	0.02	120	41.5545	-83.8438	Oak Openings	USA
13	0.55			0.67	6.96	0.44	144	45.9562	11.2813	Lavarone	Italy
14	0.10			0.67	3.47	0.02	204	40.0329	-105.546	Niwot Ridge	USA
15	1.00			0.67	5.91	0.02	180	45.5598	-84.7138	Univ. of Mich.	USA
16	0.95			0.67	4.13	0.03	12	46.7223	-91.2524	Young hardwood	USA
17	1.00			0.65	4.98	0.03	192	46.5869	11.4337	Renon	Italy
18	0.65			0.64	4.86	0.41	60	35.2617	137.0788	Seto Mixed	Japan
19	0.05			0.64	6.08	0.05	36	42.6353	-80.5577	Ontario-urkey	Canada
20	0.45			0.63	5.41	0.02	156	44.4523	-121.557	Metolius mature	USA
21	0.30			0.63	3.33	0.02	132	41.3665	-106.24	GLEES	USA
22	1.00			0.60	6.21	0.02	264	42.5378	-72.1715	Harvard Forest	USA
23	0.05	0.429※	Boreal Forest	0.79	5.89	0.04	228	50.3051	5.9981	Vielsalm	Belgium
24	0.05			0.76	5.18	0.02	228	52.1666	5.7436	Loobos	Netherlands
25	0.50			0.73	6.51	0.03	228	50.9624	13.5652	Tharandt	Germany
26	1.00			0.72	6.22	0.02	84	50.7867	13.7213	Oberbärenburg	Germany
27	0.15			0.71	7.60	0.04	228	55.4859	11.6446	Soroe	Denmark
28	0.25			0.68	4.79	0.47	228	51.3092	4.5206	Brasschaat	Belgium

29	1.00			0.64	5.68	0.02	48	60.6418	23.9597	Vielsalm	Belgium
30	0.15			0.71	5.73	0.02	132	46.0147	11.0458	Monte Bondone	Italy
31	1.00			0.71	3.69	0.06	24	34.9604	-97.9789	Little Washita	USA
32	0.05			0.71	5.80	0.03	132	50.95	13.5126	Grillenburg	Germany
33	0.10			0.69	4.57	0.04	108	49.4944	18.5429	Bily Kriz	Czech
34	0.10			0.61	7.57	0.46	120	47.1158	8.5378	Früebüel	Switzerland
35	0.30			0.60	5.81	0.46	48	50.6219	6.3041	Rollesbroich	Germany
36	0.35			0.59	5.38	0.46	96	52.2404	5.0713	Horstermeer	Netherlands
37	0.20	0.373※	Grassland	0.59	6.48	0.03	84	47.2858	7.7319	Oensingen	Switzerland
38	0.10			0.58	5.14	0.03	96	41.8406	-88.241	Fermi National	USA
39	1.00			0.57	3.00	0.44	168	38.4316	-120.966	Tonzi Ranch	USA
40	0.10			0.53	2.36	0.46	48	44.5934	123.5092	Changling	China
41	0.50			0.52	8.45	0.02	132	47.1167	11.3175	Neustift	Austria
42	0.70			0.50	2.92	0.47	36	37.37	101.18	Haibei Alpine	China
43	0.85			0.47	8.00	0.02	120	47.2102	8.4104	Chamau	Switzerland
44	0.10			0.45	4.51	0.06	84	-14.1593	131.3881	Daly River	Australia
45	0.05			0.61	2.29	0.11	12	67.0547	62.9405	Seida/Vorkuta	Russia
46	1.00			0.59	2.85	0.06	12	46.6491	-91.0693	Red pine clearcut	USA
47	0.05	0.61※	Shrubland	0.58	2.03	0.48	72	54.0916	-106.005	Saskatchewan -	Canada
48	0.95			0.45	2.24	0.07	24	46.6249	-91.2982	Pine barrens #1	USA
49	1.00			0.45	3.35	0.03	132	40.6061	8.1515	Arca di Noé - Le	Italy

Table S4. Data used to validate model simulation of gross primary productivity (GPP)

No.	Short Name	Country	Latitude (°)	Longitude (°)	Biome
1	CN-Din	China	23.1733	112.5361	Evergreen Broadleaf Forests
2	PA-SPn	Panama	9.3181	-79.6346	Deciduous Broadleaf Forests
3	GH-Ank	Ghana	5.2685	-2.6942	Evergreen Broadleaf Forests
4	BR-Sa1	Brazil	-2.8567	-54.9589	Evergreen Broadleaf Forests
5	AU-Rob	Australia	-17.1175	145.6301	Evergreen Broadleaf Forests
6	ZM-Mon	Zambia	-15.4378	23.2528	Deciduous Broadleaf Forests
7	MY-PSO	Malaysia	2.973	102.3062	Evergreen Broadleaf Forests
8	BR-Sa3	Brazil	-3.018	-54.9714	Evergreen Broadleaf Forests
9	GF-Guy	France	5.2788	-52.9249	Evergreen Broadleaf Forests
10	AU-ASM	Australia	-22.283	133.249	Evergreen Needleleaf Forests
11	IT-Isp	Italy	45.8126	8.6336	Deciduous Broadleaf Forests
12	JP-MBF	Japan	44.3869	142.3186	Deciduous Broadleaf Forests
13	US-Wi5	USA	46.6531	-91.0858	Evergreen Needleleaf Forests
14	CH-Lae	Switzerland	47.4781	8.365	Mixed Forests
15	US-Wi3	USA	46.6347	-91.0987	Deciduous Broadleaf Forests
16	DE-Lkb	Germany	49.0996	13.3047	Evergreen Needleleaf Forests
17	US-MMS	USA	39.3232	-86.4131	Deciduous Broadleaf Forests
18	US-Me6	USA	44.3233	-121.608	Evergreen Needleleaf Forests
19	US-Oho	USA	41.5545	-83.8438	Deciduous Broadleaf Forests
20	IT-Lav	Italy	45.9562	11.2813	Evergreen Needleleaf Forests
21	US-NR1	USA	40.0329	-105.546	Evergreen Needleleaf Forests
22	US-UMB	USA	45.5598	-84.7138	Deciduous Broadleaf Forests
23	US-Wi8	USA	46.7223	-91.2524	Deciduous Broadleaf Forests
24	IT-Ren	Italy	46.5869	11.4337	Evergreen Needleleaf Forests
25	JP-SMF	Japan	35.2617	137.0788	Mixed Forests
26	CA-TPD	Canada	42.6353	-80.5577	Deciduous Broadleaf Forests
27	US-Me2	USA	44.4523	-121.557	Evergreen Needleleaf Forests
28	US-GLE	USA	41.3665	-106.24	Evergreen Needleleaf Forests
29	US-Ha1	USA	42.5378	-72.1715	Deciduous Broadleaf Forests

30	CA-TP4	Canada	42.7102	-80.3574	Evergreen Needleleaf Forests
31	CN-Cha	China	42.4025	128.0958	Mixed Forests
32	CA-TP3	Canada	42.7068	-80.3483	Evergreen Needleleaf Forests
33	CZ-BK1	Czech	49.5021	18.5369	Evergreen Needleleaf Forests
34	US-Me3	USA	44.3154	-121.608	Evergreen Needleleaf Forests
35	US-Me5	USA	44.4372	-121.567	Evergreen Needleleaf Forests
36	IT-SR2	Italy	43.732	10.291	Evergreen Needleleaf Forests
37	US-Syv	USA	46.242	-89.3477	Mixed Forests
38	US-Wi1	USA	46.7305	-91.2329	Deciduous Broadleaf Forests
39	US-WCr	USA	45.8059	-90.0799	Deciduous Broadleaf Forests
40	US-UMd	USA	45.5625	-84.6975	Deciduous Broadleaf Forests
41	IT-PT1	Italy	45.2009	9.061	Deciduous Broadleaf Forests
42	US-Wi9	USA	46.6188	-91.0814	Evergreen Needleleaf Forests
43	US-Wi4	USA	46.7393	-91.1663	Evergreen Needleleaf Forests
44	CH-Dav	Switzerland	46.8153	9.8559	Evergreen Needleleaf Forests
45	CA-Qfo	Canada	49.6925	-74.3421	Evergreen Needleleaf Forests
46	CA-Gro	Canada	48.2167	-82.1556	Mixed Forests
47	FR-LBr	France	44.7171	-0.7693	Evergreen Needleleaf Forests
48	AU-Wom	Australia	-37.4222	144.0944	Evergreen Broadleaf Forests
49	US-Me1	USA	44.5794	-121.5	Evergreen Needleleaf Forests
50	IT-SRo	Italy	43.7279	10.2844	Evergreen Needleleaf Forests
51	US-KS1	USA	28.4583	-80.6709	Evergreen Needleleaf Forests
52	IT-La2	Italy	45.9542	11.2853	Evergreen Needleleaf Forests
53	CA-TP1	Canada	42.6609	-80.5595	Evergreen Needleleaf Forests
54	FR-Fon	France	48.4764	2.7801	Deciduous Broadleaf Forests
55	AU-Tum	Australia	-35.6566	148.1517	Evergreen Broadleaf Forests
56	AU-Cum	Australia	-33.6133	150.7225	Evergreen Broadleaf Forests
57	FR-Pue	France	43.7414	3.5958	Evergreen Broadleaf Forests
58	IT-Cp2	Italy	41.7043	12.3573	Evergreen Broadleaf Forests
59	IT-Ro2	Italy	42.3903	11.9209	Deciduous Broadleaf Forests

60	US-Wi0	USA	46.6188	-91.0814	Evergreen Needleleaf Forests
61	US-GBT	USA	41.3658	-106.24	Evergreen Needleleaf Forests
62	CN-Qia	China	26.7414	115.0581	Evergreen Needleleaf Forests
63	IT-Ro1	Italy	42.4081	11.93	Deciduous Broadleaf Forests
64	US-Blo	USA	38.8953	-120.633	Evergreen Needleleaf Forests
65	IT-CA1	Italy	42.3804	12.0266	Deciduous Broadleaf Forests
66	IT-Col	Italy	41.8494	13.5881	Deciduous Broadleaf Forests
67	IT-CA3	Italy	42.38	12.0222	Deciduous Broadleaf Forests
68	US-Me4	USA	44.4992	-121.622	Evergreen Needleleaf Forests
69	AU-Whr	Australia	-36.6732	145.0294	Evergreen Broadleaf Forests
70	US-ARM	USA	36.6058	-97.4888	Mixed Forests
71	AU-Wac	Australia	-37.4259	145.1878	Evergreen Broadleaf Forests
72	AU-Lox	Australia	-34.4704	140.6551	Deciduous Broadleaf Forests
73	US-Wi2	USA	46.6869	-91.1528	Evergreen Needleleaf Forests
74	BE-Vie	Belgium	50.3051	5.9981	Mixed Forests
75	NL-Loo	Netherlands	52.1666	5.7436	Evergreen Needleleaf Forests
76	DE-Tha	Germany	50.9624	13.5652	Evergreen Needleleaf Forests
77	DE-Obe	Germany	50.7867	13.7213	Evergreen Needleleaf Forests
78	DK-Sor	Denmark	55.4859	11.6446	Deciduous Broadleaf Forests
79	BE-Bra	Belgium	51.3092	4.5206	Mixed Forests
80	FI-Let	Finland	60.6418	23.9597	Evergreen Needleleaf Forests
81	CA-SF2	Canada	54.2539	-105.878	Evergreen Needleleaf Forests
82	CA-Obs	Canada	53.9872	-105.118	Evergreen Needleleaf Forests
83	DE-Lnf	Germany	51.3282	10.3678	Deciduous Broadleaf Forests
84	DE-Hai	Germany	51.0792	10.453	Deciduous Broadleaf Forests
85	RU-Fyo	Russia	56.4615	32.9221	Evergreen Needleleaf Forests
86	FI-Hyy	Finland	61.8474	24.2948	Evergreen Needleleaf Forests
87	CA-Oas	Canada	53.6289	-106.198	Evergreen Needleleaf Forests
88	CA-SF1	Canada	54.485	-105.818	Evergreen Needleleaf Forests
89	FI-Sod	Finland	67.3619	26.6378	Evergreen Needleleaf Forests

90	CA-NS1	Canada	55.8792	-98.4839	Evergreen Needleleaf Forests
91	CA-NS4	Canada	55.9144	-98.3806	Evergreen Needleleaf Forests
92	CA-NS3	Canada	55.9117	-98.3822	Evergreen Needleleaf Forests
93	CA-NS5	Canada	55.8631	-98.485	Evergreen Needleleaf Forests
94	RU-SkP	Russia	62.255	129.168	Deciduous Needleleaf Forests
95	CA-NS2	Canada	55.9058	-98.5247	Evergreen Needleleaf Forests
96	US-Prr	USA	65.1237	-147.488	Evergreen Needleleaf Forests
97	CA-Man	Canada	55.8796	-98.4808	Evergreen Needleleaf Forests
98	IT-MBo	Italy	46.0147	11.0458	Grasslands
99	US-LWW	USA	34.9604	-97.9789	Grasslands
100	DE-Gri	Germany	50.95	13.5126	Grasslands
101	CZ-BK2	Czech	49.4944	18.5429	Grasslands
102	CH-Fru	Switzerland	47.1158	8.5378	Grasslands
103	DE-RuR	Germany	50.6219	6.3041	Grasslands
104	NL-Hor	Netherlands	52.2404	5.0713	Grasslands
105	CH-Oe1	Switzerland	47.2858	7.7319	Grasslands
106	US-IB2	USA	41.8406	-88.241	Grasslands
107	US-Ton	USA	38.4316	-120.966	Savannas
108	CN-Cng	China	44.5934	123.5092	Grasslands
109	AT-Neu	Austria	47.1167	11.3175	Grasslands
110	CN-HaM	China	37.37	101.18	Grasslands
111	CH-Cha	Switzerland	47.2102	8.4104	Grasslands
112	AU-DaS	Australia	-14.1593	131.3881	Savannas
113	DK-Eng	Denmark	55.6905	12.1918	Grasslands
114	IT-Tor	Italy	45.8444	7.5781	Grasslands
115	US-Cop	USA	38.09	-109.39	Grasslands
116	US-ARc	USA	35.5465	-98.04	Grasslands

Table S5. Data on total biomass taken from global 933 sites and used to validate model performance.

NO.	Latitude(°)	Longitude(°)	MAT(°C)	MAP(mm)	Total Biomass (Mg ha ⁻¹)	Forest type	Ref.
1	-19.38	146.48	22.10	1075.00	61.65	tropical forest	[116]
2	-19.18	146.06	22.10	1075.00	41.00	tropical forest	[116]
3	-17.12	145.63	21.40	2045.00	333.60	tropical forest	[116]
4	-1.49	120.05	22.50	1790.00	302.70	tropical forest	[117]
5	0.91	110.71	25.80	3415.00	272.30	tropical forest	[118]
6	1.05	110.91	25.70	3738.00	233.90	tropical forest	[118]
7	-14.53	-61.48	25.70	1317.00	266.25	tropical forest	[119]
8	-14.35	-61.16	25.90	1384.00	199.00	tropical forest	[119]
9	-12.89	24.48	21.40	1072.00	213.60	tropical forest	[119]
10	-12.83	-69.27	25.20	2426.00	320.15	tropical forest	[119]
11	-12.50	-68.95	25.50	2110.00	316.50	tropical forest	[119]
12	-12.49	-69.11	25.20	2110.00	320.95	tropical forest	[119]
13	-10.12	-68.00	26.30	1927.00	226.10	tropical forest	[119]
14	-8.75	-63.38	26.30	2184.00	340.30	tropical forest	[119]
15	-3.95	-73.43	26.40	2871.00	316.70	tropical forest	[119]
16	-3.43	-72.85	26.30	2783.00	356.00	tropical forest	[119]
17	-3.23	-72.90	26.30	2783.00	336.75	tropical forest	[119]
18	-2.98	-47.52	26.90	2403.00	148.80	tropical forest	[119]
19	-1.07	-77.60	23.30	4177.00	332.05	tropical forest	[119]
20	-0.63	-76.14	26.00	3339.00	305.68	tropical forest	[119]
21	-0.22	-78.05	11.50	1092.00	387.90	tropical forest	[119]
22	1.33	28.60	23.50	1386.00	240.17	tropical forest	[119]
23	1.93	-67.05	26.00	3185.00	337.00	tropical forest	[119]
24	4.75	-53.00	25.70	3016.00	368.90	tropical forest	[119]
25	5.00	117.50	25.20	2662.00	392.70	tropical forest	[119]
26	9.50	-70.00	23.10	1216.00	352.20	tropical forest	[119]
27	9.85	-83.60	18.00	4429.00	207.10	tropical forest	[119]
28	10.00	-66.00	24.80	1590.00	166.60	tropical forest	[119]

29	19.50	-105.02	26.30	976.00	107.57	tropical forest	[119]
30	25.25	107.98	17.90	1229.00	106.10	tropical forest	[119]
31	25.90	110.10	16.70	1568.00	254.20	tropical forest	[119]
32	26.00	119.30	18.20	1552.00	210.70	tropical forest	[119]
33	26.08	99.56	10.40	1001.00	158.40	tropical forest	[119]
34	26.20	110.20	13.30	1453.00	418.50	tropical forest	[119]
35	26.37	100.10	15.60	1049.00	235.60	tropical forest	[119]
36	27.00	118.90	17.00	1685.00	240.30	tropical forest	[119]
37	28.50	106.32	16.40	1101.00	155.80	tropical forest	[119]
38	29.80	78.65	20.40	1124.00	23.90	tropical forest	[119]
39	18.71	108.83	24.50	2068.00	113.60	tropical forest	[102]
40	19.73	109.47	24.80	1804.00	98.65	tropical forest	[102]
41	21.58	110.06	22.90	1683.00	134.67	tropical forest	[102]
42	21.85	109.78	22.60	1684.00	74.20	tropical forest	[102]
43	21.88	101.29	21.50	1341.00	36.50	tropical forest	[102]
44	22.13	106.82	22.40	1368.00	93.83	tropical forest	[102]
45	22.43	100.98	20.80	1342.00	79.30	tropical forest	[102]
46	22.58	109.88	21.40	1634.00	162.90	tropical forest	[102]
47	22.68	112.90	21.90	1833.00	102.59	tropical forest	[102]
48	23.03	108.51	21.30	1414.00	124.53	tropical forest	[102]
49	23.13	111.83	21.20	1654.00	80.02	tropical forest	[102]
50	23.20	100.85	18.70	1328.00	105.75	tropical forest	[102]
51	23.75	109.81	20.80	1592.00	158.95	tropical forest	[102]
52	24.33	99.45	18.40	1268.00	145.05	tropical forest	[102]
53	24.88	108.93	19.70	1355.00	78.70	tropical forest	[102]
54	24.99	107.49	20.00	1204.00	72.83	tropical forest	[102]
55	25.15	102.78	14.50	1032.00	130.40	tropical forest	[102]
56	25.30	118.35	19.80	1474.00	74.47	tropical forest	[102]
57	25.67	116.43	18.80	1608.00	72.98	tropical forest	[102]
58	26.02	117.35	18.20	1666.00	124.80	tropical forest	[102]
59	26.16	117.54	18.10	1648.00	185.67	tropical forest	[102]

60	26.19	106.43	15.90	1155.00	86.90	tropical forest	[102]
61	26.19	107.30	15.10	1172.00	119.25	tropical forest	[102]
62	26.26	117.46	18.20	1666.00	128.10	tropical forest	[102]
63	26.30	119.11	18.20	1552.00	244.90	tropical forest	[102]
64	26.33	117.31	18.20	1666.00	194.80	tropical forest	[102]
65	26.38	117.79	18.10	1648.00	132.64	tropical forest	[102]
66	26.43	118.48	17.70	1620.00	182.90	tropical forest	[102]
67	26.47	117.95	18.10	1648.00	265.30	tropical forest	[102]
68	26.56	117.78	17.60	1705.00	123.93	tropical forest	[102]
69	26.62	106.43	13.70	1112.00	142.04	tropical forest	[102]
70	26.63	117.95	17.60	1705.00	254.83	tropical forest	[102]
71	26.77	118.01	17.70	1679.00	226.53	tropical forest	[102]
72	26.78	109.63	16.40	1354.00	216.62	tropical forest	[102]
73	27.10	117.30	17.00	1748.00	248.60	tropical forest	[102]
74	27.74	113.54	17.30	1494.00	63.10	tropical forest	[102]
75	28.39	114.12	15.70	1508.00	119.67	tropical forest	[102]
76	28.53	106.10	16.40	1101.00	149.40	tropical forest	[102]
77	28.69	110.54	15.90	1323.00	185.80	tropical forest	[102]
78	28.76	110.03	16.00	1321.00	138.57	tropical forest	[102]
79	19.50	99.00	23.70	1360.00	175.30	tropical forest	[120]
80	24.92	83.12	25.20	1003.00	89.90	tropical forest	[120]
81	25.05	83.22	26.10	987.00	31.80	tropical forest	[120]
82	29.00	77.14	24.50	774.00	117.54	tropical forest	[120]
83	-12.90	24.50	21.40	1072.00	195.10	tropical forest	[121]
84	-12.74	24.58	21.40	1072.00	169.80	tropical forest	[121]
85	-8.59	35.56	23.70	1176.00	180.20	tropical forest	[121]
86	-7.74	36.91	20.90	1314.00	379.28	tropical forest	[121]
87	-7.18	36.96	21.10	1078.00	290.20	tropical forest	[121]
88	-7.01	37.81	23.00	1296.00	281.50	tropical forest	[121]
89	-0.64	11.03	25.80	1897.00	278.00	tropical forest	[121]
90	-0.19	12.20	26.20	1703.00	314.80	tropical forest	[121]

91	-0.15	12.27	26.20	1703.00	374.00	tropical forest	[121]
92	-0.15	13.05	24.80	1682.00	269.70	tropical forest	[121]
93	1.36	17.84	25.10	1685.00	221.00	tropical forest	[121]
94	2.38	16.91	24.80	1636.00	428.40	tropical forest	[121]
95	2.43	13.52	24.00	1604.00	304.30	tropical forest	[121]
96	2.46	16.56	25.80	1623.00	522.90	tropical forest	[121]
97	2.63	14.14	24.00	1587.00	214.60	tropical forest	[121]
98	3.16	101.66	25.40	2464.00	183.34	tropical forest	[121]
99	3.28	12.89	23.90	1598.00	344.30	tropical forest	[121]
100	5.18	9.68	23.60	2442.00	303.90	tropical forest	[121]
101	6.05	9.28	25.30	2204.00	371.40	tropical forest	[121]
102	6.31	9.37	25.30	2204.00	339.30	tropical forest	[121]
103	6.58	4.28	27.30	1576.00	108.85	tropical forest	[121]
104	7.08	80.50	23.10	1759.00	296.80	tropical forest	[121]
105	-37.32	141.78	15.30	411.00	29.70	temperate evergreen conifer forest	[116]
106	55.45	56.35	3.00	546.00	41.20	temperate evergreen conifer forest	[120]
107	35.54	109.00	11.30	521.00	57.58	temperate evergreen conifer forest	[102]
108	50.67	26.50	8.00	563.00	59.78	temperate evergreen conifer forest	[120]
109	35.69	109.10	11.30	521.00	60.39	temperate evergreen conifer forest	[102]
110	53.75	51.56	5.50	337.00	65.30	temperate evergreen conifer forest	[120]
111	35.80	109.70	11.40	526.00	65.60	temperate evergreen conifer forest	[102]
112	53.57	51.16	4.40	475.00	69.06	temperate evergreen conifer forest	[120]
113	34.96	107.84	9.80	618.00	72.36	temperate evergreen conifer forest	[102]
114	35.08	108.55	10.50	560.00	73.88	temperate evergreen conifer forest	[102]
115	51.11	40.76	5.90	434.00	74.41	temperate evergreen conifer forest	[120]
116	54.27	85.13	-2.80	524.00	74.85	temperate evergreen conifer forest	[120]
117	27.27	115.12	18.70	1568.00	74.90	temperate evergreen conifer forest	[102]
118	33.52	108.42	9.60	730.00	75.25	temperate evergreen conifer forest	[102]
119	29.72	118.79	14.80	1554.00	76.60	temperate evergreen conifer forest	[102]
120	42.00	27.00	12.40	592.00	77.18	temperate evergreen conifer forest	[120]
121	51.20	40.19	7.80	493.00	79.09	temperate evergreen conifer forest	[120]

122	-25.52	152.25	20.40	946.00	79.30	temperate evergreen conifer forest	[116]
123	51.67	39.17	6.30	542.00	82.17	temperate evergreen conifer forest	[120]
124	36.80	112.01	7.70	512.00	84.87	temperate evergreen conifer forest	[102]
125	58.50	26.83	4.90	629.00	86.20	temperate evergreen conifer forest	[120]
126	52.29	44.13	7.00	461.00	86.39	temperate evergreen conifer forest	[120]
127	-35.47	150.20	14.80	952.00	88.90	temperate evergreen conifer forest	[116]
128	43.83	117.15	0.40	352.00	97.70	temperate evergreen conifer forest	[102]
129	28.26	113.08	17.50	1433.00	98.10	temperate evergreen conifer forest	[102]
130	36.50	137.00	12.90	2236.00	100.13	temperate evergreen conifer forest	[120]
131	51.05	83.51	2.20	498.00	102.46	temperate evergreen conifer forest	[120]
132	34.16	133.76	14.80	1255.00	102.73	temperate evergreen conifer forest	[121]
133	43.21	77.00	4.90	384.00	105.40	temperate evergreen conifer forest	[120]
134	29.91	103.22	14.70	1156.00	107.78	temperate evergreen conifer forest	[102]
135	31.27	105.47	16.60	945.00	107.90	temperate evergreen conifer forest	[102]
136	56.36	80.00	3.30	328.00	108.57	temperate evergreen conifer forest	[120]
137	-37.54	141.48	15.80	416.00	111.20	temperate evergreen conifer forest	[116]
138	48.67	7.08	9.60	723.00	111.40	temperate evergreen conifer forest	[120]
139	54.75	28.17	6.00	658.00	111.52	temperate evergreen conifer forest	[120]
140	34.50	136.33	13.30	1626.00	113.50	temperate evergreen conifer forest	[121]
141	51.57	32.57	6.90	610.00	113.55	temperate evergreen conifer forest	[120]
142	33.38	104.68	10.90	656.00	113.60	temperate evergreen conifer forest	[102]
143	54.50	27.00	6.10	641.00	113.76	temperate evergreen conifer forest	[120]
144	56.16	80.30	2.20	350.00	113.83	temperate evergreen conifer forest	[120]
145	32.50	130.70	14.80	2353.00	114.30	temperate evergreen conifer forest	[121]
146	32.98	104.19	10.70	708.00	114.30	temperate evergreen conifer forest	[119]
147	33.94	105.33	10.60	616.00	115.02	temperate evergreen conifer forest	[102]
148	31.10	116.18	14.70	1231.00	115.97	temperate evergreen conifer forest	[102]
149	39.03	141.35	9.30	1433.00	116.20	temperate evergreen conifer forest	[121]
150	39.02	113.48	5.00	469.00	116.50	temperate evergreen conifer forest	[102]
151	30.55	120.22	16.20	1308.00	118.07	temperate evergreen conifer forest	[102]
152	51.04	27.09	7.80	588.00	119.10	temperate evergreen conifer forest	[120]

153	41.26	118.45	4.30	469.00	120.77	temperate evergreen conifer forest	[102]
154	29.50	104.33	17.40	1107.00	121.23	temperate evergreen conifer forest	[102]
155	51.05	26.96	7.80	593.00	121.41	temperate evergreen conifer forest	[120]
156	51.00	27.00	7.80	588.00	121.46	temperate evergreen conifer forest	[120]
157	50.59	83.70	2.70	285.00	121.52	temperate evergreen conifer forest	[120]
158	51.17	-0.88	9.60	770.00	122.14	temperate evergreen conifer forest	[120]
159	40.55	117.52	6.70	481.00	122.70	temperate evergreen conifer forest	[102]
160	51.17	0.17	9.70	762.00	123.46	temperate evergreen conifer forest	[120]
161	31.75	105.21	16.40	889.00	124.00	temperate evergreen conifer forest	[102]
162	-35.14	147.23	15.10	877.00	124.20	temperate evergreen conifer forest	[116]
163	32.18	118.59	15.30	1039.00	125.10	temperate evergreen conifer forest	[102]
164	31.10	97.10	-2.50	463.00	126.10	temperate evergreen conifer forest	[119]
165	35.06	-83.43	12.00	1697.00	126.80	temperate evergreen conifer forest	[121]
166	-25.85	152.65	21.30	1161.00	127.36	temperate evergreen conifer forest	[116]
167	54.20	-2.88	8.30	1728.00	129.00	temperate evergreen conifer forest	[120]
168	32.00	110.70	12.90	905.00	129.30	temperate evergreen conifer forest	[119]
169	51.00	27.67	7.70	593.00	132.30	temperate evergreen conifer forest	[120]
170	55.32	-3.55	7.60	1455.00	132.90	temperate evergreen conifer forest	[120]
171	51.11	27.21	7.80	588.00	133.23	temperate evergreen conifer forest	[120]
172	56.00	38.00	4.40	665.00	133.34	temperate evergreen conifer forest	[120]
173	-37.38	141.48	13.90	603.00	133.80	temperate evergreen conifer forest	[116]
174	36.00	-79.00	14.50	1133.00	135.42	temperate evergreen conifer forest	[121]
175	44.08	6.98	7.70	1177.00	136.18	temperate evergreen conifer forest	[120]
176	30.95	112.05	16.90	1070.00	140.50	temperate evergreen conifer forest	[102]
177	33.48	111.94	14.00	761.00	140.50	temperate evergreen conifer forest	[102]
178	40.67	-7.71	13.50	665.00	140.90	temperate evergreen conifer forest	[120]
179	56.30	76.00	2.80	272.00	141.95	temperate evergreen conifer forest	[120]
180	29.62	119.02	15.30	1524.00	143.23	temperate evergreen conifer forest	[102]
181	41.42	118.52	4.20	477.00	143.83	temperate evergreen conifer forest	[102]
182	50.63	83.30	3.00	327.00	145.08	temperate evergreen conifer forest	[120]
183	-29.07	152.80	18.70	1134.00	147.14	temperate evergreen conifer forest	[116]

184	33.90	107.70	5.40	718.00	148.80	temperate evergreen conifer forest	[119]
185	56.33	42.50	4.40	596.00	149.82	temperate evergreen conifer forest	[120]
186	53.42	50.93	4.60	429.00	152.69	temperate evergreen conifer forest	[120]
187	28.74	103.05	10.70	978.00	152.77	temperate evergreen conifer forest	[102]
188	51.25	40.29	7.00	414.00	156.20	temperate evergreen conifer forest	[120]
189	31.20	98.80	2.00	538.00	156.70	temperate evergreen conifer forest	[119]
190	-36.86	148.24	9.10	996.00	156.90	temperate evergreen conifer forest	[116]
191	37.83	111.44	6.90	459.00	157.66	temperate evergreen conifer forest	[102]
192	55.67	36.67	4.80	680.00	160.13	temperate evergreen conifer forest	[120]
193	-25.45	152.42	21.30	1011.00	161.10	temperate evergreen conifer forest	[116]
194	30.96	103.13	12.40	925.00	163.00	temperate evergreen conifer forest	[102]
195	-37.33	142.52	12.50	588.00	164.05	temperate evergreen conifer forest	[116]
196	31.02	103.57	13.70	900.00	166.80	temperate evergreen conifer forest	[102]
197	-32.75	150.71	16.40	772.00	168.50	temperate evergreen conifer forest	[116]
198	48.78	24.00	6.00	847.00	168.55	temperate evergreen conifer forest	[120]
199	49.45	36.47	8.10	521.00	169.10	temperate evergreen conifer forest	[120]
200	-42.86	146.81	9.10	1082.00	170.85	temperate evergreen conifer forest	[116]
201	55.33	37.00	5.10	640.00	172.73	temperate evergreen conifer forest	[120]
202	41.95	13.14	15.20	839.00	175.60	temperate evergreen conifer forest	[120]
203	55.50	-2.67	7.70	862.00	176.20	temperate evergreen conifer forest	[120]
204	55.50	-2.48	8.40	764.00	176.20	temperate evergreen conifer forest	[121]
205	55.42	26.02	5.90	661.00	177.00	temperate evergreen conifer forest	[119]
206	-26.12	152.69	20.30	1153.00	178.70	temperate evergreen conifer forest	[116]
207	33.53	104.91	10.30	599.00	178.90	temperate evergreen conifer forest	[119]
208	42.00	27.50	13.10	578.00	179.38	temperate evergreen conifer forest	[120]
209	33.00	131.50	15.00	1824.00	179.50	temperate evergreen conifer forest	[121]
210	42.33	-8.67	13.80	1545.00	179.50	temperate evergreen conifer forest	[120]
211	48.30	24.30	4.20	961.00	180.33	temperate evergreen conifer forest	[120]
212	29.00	93.10	3.20	723.00	180.95	temperate evergreen conifer forest	[119]
213	42.86	-4.03	11.80	526.00	181.93	temperate evergreen conifer forest	[120]
214	51.30	4.52	10.10	790.00	185.68	temperate evergreen conifer forest	[120]

215	28.30	103.40	13.50	1016.00	185.70	temperate evergreen conifer forest	[119]
216	-40.89	144.95	12.60	1046.00	187.65	temperate evergreen conifer forest	[116]
217	28.90	99.02	8.40	826.00	188.20	temperate evergreen conifer forest	[119]
218	30.90	102.40	6.20	742.00	188.48	temperate evergreen conifer forest	[119]
219	33.60	104.41	6.10	596.00	188.80	temperate evergreen conifer forest	[119]
220	27.97	98.96	7.20	924.00	189.30	temperate evergreen conifer forest	[119]
221	55.40	37.00	5.10	640.00	191.70	temperate evergreen conifer forest	[120]
222	55.33	37.17	5.10	640.00	191.95	temperate evergreen conifer forest	[120]
223	53.83	28.00	6.50	642.00	193.03	temperate evergreen conifer forest	[120]
224	48.17	24.75	5.00	876.00	194.05	temperate evergreen conifer forest	[120]
225	52.95	-7.27	9.10	937.00	198.46	temperate evergreen conifer forest	[120]
226	-28.35	152.66	18.30	1016.00	198.55	temperate evergreen conifer forest	[116]
227	36.78	139.93	10.50	1543.00	199.40	temperate evergreen conifer forest	[121]
228	47.38	-122.20	11.30	1042.00	199.90	temperate evergreen conifer forest	[121]
229	27.82	100.60	7.20	848.00	202.60	temperate evergreen conifer forest	[119]
230	33.65	103.75	4.80	580.00	203.06	temperate evergreen conifer forest	[119]
231	31.22	115.87	14.10	1212.00	203.50	temperate evergreen conifer forest	[102]
232	33.33	131.00	12.30	2442.00	204.25	temperate evergreen conifer forest	[121]
233	30.00	101.00	4.40	709.00	204.70	temperate evergreen conifer forest	[119]
234	39.75	141.00	7.30	1442.00	207.30	temperate evergreen conifer forest	[121]
235	-28.45	152.50	18.30	1016.00	210.20	temperate evergreen conifer forest	[116]
236	33.48	103.57	5.10	623.00	210.22	temperate evergreen conifer forest	[119]
237	-30.59	152.74	17.10	1336.00	210.52	temperate evergreen conifer forest	[116]
238	48.49	24.57	5.00	876.00	210.88	temperate evergreen conifer forest	[120]
239	-29.72	152.51	18.20	1243.00	210.95	temperate evergreen conifer forest	[116]
240	-31.52	151.52	14.50	1017.00	215.07	temperate evergreen conifer forest	[116]
241	27.17	100.23	5.80	861.00	217.70	temperate evergreen conifer forest	[119]
242	-37.11	147.28	9.70	1044.00	218.70	temperate evergreen conifer forest	[116]
243	36.00	139.13	13.00	1244.00	221.50	temperate evergreen conifer forest	[121]
244	27.90	101.20	11.10	899.00	223.70	temperate evergreen conifer forest	[119]
245	-30.12	152.94	16.40	1319.00	226.15	temperate evergreen conifer forest	[116]

246	52.40	-115.67	-0.50	662.00	226.20	temperate evergreen conifer forest	[119]
247	-37.28	149.15	12.10	780.00	229.37	temperate evergreen conifer forest	[119]
248	-41.63	147.80	9.60	674.00	232.10	temperate evergreen conifer forest	[116]
249	47.00	9.00	7.50	1323.00	232.73	temperate evergreen conifer forest	[120]
250	49.61	32.06	8.10	552.00	232.93	temperate evergreen conifer forest	[120]
251	-41.07	144.97	11.90	1200.00	234.50	temperate evergreen conifer forest	[116]
252	36.67	138.50	8.20	1492.00	235.10	temperate evergreen conifer forest	[119]
253	50.58	13.25	7.90	594.00	235.55	temperate evergreen conifer forest	[120]
254	-35.30	148.64	11.90	843.00	238.25	temperate evergreen conifer forest	[116]
255	-31.49	151.33	14.40	837.00	238.60	temperate evergreen conifer forest	[116]
256	-36.69	146.99	12.00	1071.00	238.64	temperate evergreen conifer forest	[116]
257	35.00	138.00	8.10	1898.00	239.00	temperate evergreen conifer forest	[121]
258	50.20	11.88	7.20	650.00	239.13	temperate evergreen conifer forest	[119]
259	28.08	99.67	5.20	810.00	241.13	temperate evergreen conifer forest	[102]
260	-36.70	149.93	14.20	822.00	243.30	temperate evergreen conifer forest	[116]
261	44.49	-121.63	5.90	855.00	243.43	temperate evergreen conifer forest	[119]
262	48.55	24.60	7.90	680.00	244.79	temperate evergreen conifer forest	[120]
263	50.20	11.88	7.20	650.00	245.54	temperate evergreen conifer forest	[120]
264	-31.12	152.79	17.50	1336.00	246.73	temperate evergreen conifer forest	[116]
265	41.90	44.20	7.40	727.00	247.53	temperate evergreen conifer forest	[120]
266	-37.10	149.76	14.10	856.00	249.76	temperate evergreen conifer forest	[116]
267	33.50	133.50	12.40	2138.00	250.39	temperate evergreen conifer forest	[121]
268	50.50	13.00	7.90	594.00	251.25	temperate evergreen conifer forest	[120]
269	27.70	99.70	4.80	826.00	255.13	temperate evergreen conifer forest	[119]
270	-29.56	152.04	15.40	1045.00	257.35	temperate evergreen conifer forest	[116]
271	48.02	20.45	8.70	653.00	257.50	temperate evergreen conifer forest	[121]
272	42.50	-0.65	8.20	962.00	257.70	temperate evergreen conifer forest	[121]
273	51.82	9.58	8.00	722.00	262.42	temperate evergreen conifer forest	[120]
274	-28.92	152.27	16.30	884.00	262.55	temperate evergreen conifer forest	[116]
275	31.40	103.10	10.30	809.00	263.25	temperate evergreen conifer forest	[119]
276	29.90	93.80	2.70	648.00	264.90	temperate evergreen conifer forest	[119]

277	-37.06	149.80	14.10	856.00	265.04	temperate evergreen conifer forest	[116]
278	37.50	139.00	11.10	1692.00	265.65	temperate evergreen conifer forest	[121]
279	48.33	17.17	9.40	678.00	265.93	temperate evergreen conifer forest	[120]
280	29.00	101.35	0.10	752.00	266.90	temperate evergreen conifer forest	[119]
281	41.85	13.59	14.60	803.00	267.00	temperate evergreen conifer forest	[119]
282	-31.37	151.66	12.50	1016.00	267.40	temperate evergreen conifer forest	[116]
283	-30.02	152.43	14.20	1083.00	267.76	temperate evergreen conifer forest	[116]
284	31.60	103.80	11.40	799.00	268.20	temperate evergreen conifer forest	[119]
285	-31.65	152.27	16.70	1157.00	271.90	temperate evergreen conifer forest	[116]
286	27.32	100.66	9.90	897.00	274.70	temperate evergreen conifer forest	[119]
287	-30.54	152.85	17.10	1336.00	274.90	temperate evergreen conifer forest	[116]
288	31.50	103.27	4.30	704.00	275.05	temperate evergreen conifer forest	[102]
289	39.83	-86.18	11.60	1009.00	276.10	temperate evergreen conifer forest	[119]
290	-41.10	147.14	11.50	702.00	277.96	temperate evergreen conifer forest	[116]
291	-38.24	143.24	15.10	808.00	279.90	temperate evergreen conifer forest	[116]
292	27.38	99.44	8.60	952.00	280.70	temperate evergreen conifer forest	[119]
293	27.45	98.96	10.50	1050.00	282.10	temperate evergreen conifer forest	[119]
294	28.62	98.65	3.30	766.00	282.20	temperate evergreen conifer forest	[119]
295	-41.44	146.42	11.80	1108.00	282.60	temperate evergreen conifer forest	[116]
296	-33.07	151.31	17.00	980.00	283.40	temperate evergreen conifer forest	[116]
297	-26.58	152.85	19.20	1117.00	284.83	temperate evergreen conifer forest	[116]
298	56.83	49.83	3.30	570.00	284.95	temperate evergreen conifer forest	[120]
299	-36.53	147.19	10.20	1098.00	290.10	temperate evergreen conifer forest	[116]
300	50.97	3.80	10.10	835.00	294.60	temperate evergreen conifer forest	[120]
301	33.16	132.99	14.10	2080.00	298.23	temperate evergreen conifer forest	[121]
302	-29.09	152.46	15.20	983.00	300.07	temperate evergreen conifer forest	[116]
303	-31.31	152.02	14.50	1164.00	300.80	temperate evergreen conifer forest	[116]
304	47.38	-121.95	9.00	2325.00	303.82	temperate evergreen conifer forest	[121]
305	51.92	6.70	9.90	749.00	310.10	temperate evergreen conifer forest	[120]
306	31.00	101.10	3.80	646.00	310.30	temperate evergreen conifer forest	[119]
307	48.25	8.50	8.30	953.00	315.50	temperate evergreen conifer forest	[120]

308	-32.27	152.26	17.20	1165.00	317.23	temperate evergreen conifer forest	[116]
309	-32.02	152.34	17.20	1165.00	323.60	temperate evergreen conifer forest	[116]
310	45.53	-78.81	3.70	1006.00	325.90	temperate evergreen conifer forest	[121]
311	50.29	-114.57	-1.20	734.00	331.77	temperate evergreen conifer forest	[119]
312	-36.01	149.86	12.50	877.00	332.86	temperate evergreen conifer forest	[116]
313	-40.50	-73.50	9.80	1412.00	335.10	temperate evergreen conifer forest	[119]
314	51.10	28.50	7.40	618.00	335.80	temperate evergreen conifer forest	[120]
315	35.00	136.33	13.10	1715.00	339.00	temperate evergreen conifer forest	[121]
316	45.23	23.17	7.80	811.00	339.60	temperate evergreen conifer forest	[120]
317	49.52	14.98	7.70	659.00	347.40	temperate evergreen conifer forest	[120]
318	32.00	103.00	8.50	710.00	353.30	temperate evergreen conifer forest	[119]
319	43.50	-122.00	7.80	984.00	372.90	temperate evergreen conifer forest	[119]
320	28.18	98.96	4.10	828.00	385.10	temperate evergreen conifer forest	[119]
321	27.82	99.26	9.30	928.00	390.50	temperate evergreen conifer forest	[119]
322	-35.61	148.22	10.50	1018.00	438.12	temperate evergreen conifer forest	[116]
323	-42.18	146.40	8.20	1496.00	447.80	temperate evergreen conifer forest	[116]
324	37.45	56.32	15.90	132.00	15.40	temperate evergreen broadleaf forest	[120]
325	53.01	44.50	8.40	330.00	17.40	temperate evergreen broadleaf forest	[120]
326	36.27	113.16	9.50	547.00	35.70	temperate evergreen broadleaf forest	[102]
327	51.79	43.00	8.10	386.00	40.30	temperate evergreen broadleaf forest	[120]
328	49.00	33.50	8.30	528.00	41.61	temperate evergreen broadleaf forest	[120]
329	38.47	112.34	4.20	356.00	42.60	temperate evergreen broadleaf forest	[102]
330	41.22	121.86	8.90	581.00	46.90	temperate evergreen broadleaf forest	[102]
331	48.81	7.78	10.40	647.00	47.00	temperate evergreen broadleaf forest	[122]
332	35.67	45.25	16.00	420.00	47.90	temperate evergreen broadleaf forest	[120]
333	38.68	112.18	4.20	471.00	52.20	temperate evergreen broadleaf forest	[102]
334	48.64	31.86	8.70	482.00	53.13	temperate evergreen broadleaf forest	[120]
335	51.17	40.42	8.70	280.00	53.70	temperate evergreen broadleaf forest	[120]
336	38.54	117.43	12.20	577.00	55.00	temperate evergreen broadleaf forest	[102]
337	30.87	110.97	14.10	1110.00	57.85	temperate evergreen broadleaf forest	[102]
338	-35.42	-70.78	16.50	605.00	59.70	temperate evergreen broadleaf forest	[125]

339	35.75	139.50	14.60	1444.00	60.22	temperate evergreen broadleaf forest	[121]
340	54.00	27.00	6.30	653.00	61.83	temperate evergreen broadleaf forest	[120]
341	27.86	113.18	17.80	1452.00	62.43	temperate evergreen broadleaf forest	[102]
342	47.62	124.92	2.70	437.00	64.02	temperate evergreen broadleaf forest	[102]
343	43.50	27.00	11.20	538.00	64.30	temperate evergreen broadleaf forest	[120]
344	52.00	39.00	5.90	533.00	66.08	temperate evergreen broadleaf forest	[120]
345	34.82	108.13	11.90	617.00	67.10	temperate evergreen broadleaf forest	[102]
346	51.67	39.33	6.30	542.00	67.35	temperate evergreen broadleaf forest	[120]
347	56.00	78.00	0.20	428.00	67.53	temperate evergreen broadleaf forest	[120]
348	49.00	9.00	9.50	629.00	69.10	temperate evergreen broadleaf forest	[120]
349	45.60	28.14	11.20	436.00	69.30	temperate evergreen broadleaf forest	[120]
350	39.98	116.27	12.20	498.00	69.84	temperate evergreen broadleaf forest	[102]
351	36.97	109.03	9.10	456.00	71.63	temperate evergreen broadleaf forest	[102]
352	39.97	117.02	12.40	505.00	72.20	temperate evergreen broadleaf forest	[102]
353	27.35	113.08	17.70	1459.00	73.43	temperate evergreen broadleaf forest	[102]
354	55.00	24.00	6.70	604.00	74.53	temperate evergreen broadleaf forest	[120]
355	45.00	34.17	11.20	460.00	74.80	temperate evergreen broadleaf forest	[120]
356	-36.53	144.43	15.70	424.00	75.00	temperate evergreen broadleaf forest	[116]
357	48.50	31.54	8.90	443.00	77.09	temperate evergreen broadleaf forest	[120]
358	-25.36	151.69	20.00	622.00	77.85	temperate evergreen broadleaf forest	[116]
359	50.85	27.25	8.00	564.00	78.15	temperate evergreen broadleaf forest	[120]
360	27.67	114.63	18.10	1559.00	78.56	temperate evergreen broadleaf forest	[102]
361	52.50	1.22	9.60	660.00	78.73	temperate evergreen broadleaf forest	[121]
362	49.32	16.67	8.20	593.00	81.58	temperate evergreen broadleaf forest	[120]
363	31.87	118.87	15.70	1120.00	81.70	temperate evergreen broadleaf forest	[102]
364	58.30	26.50	5.00	602.00	82.10	temperate evergreen broadleaf forest	[120]
365	51.67	31.99	7.30	600.00	82.20	temperate evergreen broadleaf forest	[120]
366	52.50	0.88	9.20	706.00	83.83	temperate evergreen broadleaf forest	[120]
367	51.45	94.30	-3.00	545.00	85.15	temperate evergreen broadleaf forest	[120]
368	35.00	137.00	13.70	1657.00	89.15	temperate evergreen broadleaf forest	[120]
369	52.33	20.83	8.30	516.00	89.92	temperate evergreen broadleaf forest	[120]

370	56.12	73.30	1.00	386.00	94.23	temperate evergreen broadleaf forest	[120]
371	56.09	37.49	4.60	685.00	95.20	temperate evergreen broadleaf forest	[120]
372	56.33	43.50	4.30	612.00	95.82	temperate evergreen broadleaf forest	[120]
373	36.00	137.50	7.90	1509.00	96.70	temperate evergreen broadleaf forest	[120]
374	56.33	36.33	4.60	691.00	96.84	temperate evergreen broadleaf forest	[120]
375	-26.03	152.67	19.70	684.00	98.40	temperate evergreen broadleaf forest	[116]
376	52.57	4.65	9.60	760.00	99.00	temperate evergreen broadleaf forest	[120]
377	48.60	32.37	8.50	457.00	99.50	temperate evergreen broadleaf forest	[120]
378	36.00	138.00	7.90	1363.00	100.24	temperate evergreen broadleaf forest	[120]
379	32.13	114.01	15.90	998.00	100.30	temperate evergreen broadleaf forest	[102]
380	42.52	125.42	5.70	712.00	101.90	temperate evergreen broadleaf forest	[102]
381	50.55	30.35	8.10	620.00	102.20	temperate evergreen broadleaf forest	[120]
382	31.55	117.96	15.90	1107.00	102.90	temperate evergreen broadleaf forest	[102]
383	50.30	27.00	8.50	523.00	103.90	temperate evergreen broadleaf forest	[120]
384	51.76	33.63	6.80	601.00	104.70	temperate evergreen broadleaf forest	[120]
385	-25.84	152.37	19.70	684.00	105.90	temperate evergreen broadleaf forest	[116]
386	50.25	36.64	9.40	503.00	106.86	temperate evergreen broadleaf forest	[120]
387	-26.06	152.39	19.70	684.00	107.20	temperate evergreen broadleaf forest	[116]
388	31.30	104.53	16.60	925.00	108.60	temperate evergreen broadleaf forest	[102]
389	36.50	138.00	7.80	1403.00	109.23	temperate evergreen broadleaf forest	[120]
390	56.30	37.00	4.60	685.00	109.70	temperate evergreen broadleaf forest	[120]
391	39.03	141.35	9.30	1433.00	113.91	temperate evergreen broadleaf forest	[120]
392	52.48	-0.25	9.50	604.00	114.43	temperate evergreen broadleaf forest	[120]
393	32.12	118.98	15.30	1039.00	114.70	temperate evergreen broadleaf forest	[102]
394	51.00	30.00	7.90	611.00	116.32	temperate evergreen broadleaf forest	[120]
395	54.33	26.50	6.20	653.00	116.45	temperate evergreen broadleaf forest	[120]
396	36.72	112.05	7.70	512.00	117.10	temperate evergreen broadleaf forest	[102]
397	36.50	138.17	7.80	1403.00	117.50	temperate evergreen broadleaf forest	[120]
398	54.83	28.00	6.00	658.00	120.40	temperate evergreen broadleaf forest	[120]
399	54.00	27.50	6.00	673.00	120.44	temperate evergreen broadleaf forest	[120]
400	34.54	114.52	14.60	656.00	120.73	temperate evergreen broadleaf forest	[102]

401	51.73	25.90	7.40	584.00	121.97	temperate evergreen broadleaf forest	[120]
402	45.00	20.50	12.00	599.00	123.07	temperate evergreen broadleaf forest	[120]
403	50.81	26.18	7.60	570.00	123.10	temperate evergreen broadleaf forest	[120]
404	49.50	128.40	-0.80	566.00	123.50	temperate evergreen broadleaf forest	[119]
405	57.17	-2.17	7.80	850.00	124.06	temperate evergreen broadleaf forest	[120]
406	49.00	32.00	8.20	531.00	125.44	temperate evergreen broadleaf forest	[120]
407	35.00	140.00	15.00	1858.00	125.50	temperate evergreen broadleaf forest	[120]
408	44.43	39.42	9.40	503.00	127.20	temperate evergreen broadleaf forest	[120]
409	52.76	-0.25	9.30	638.00	129.13	temperate evergreen broadleaf forest	[121]
410	48.50	19.67	5.20	943.00	129.17	temperate evergreen broadleaf forest	[120]
411	48.73	32.32	8.20	488.00	130.03	temperate evergreen broadleaf forest	[120]
412	52.67	1.33	9.60	660.00	130.40	temperate evergreen broadleaf forest	[120]
413	51.40	42.00	6.40	444.00	130.90	temperate evergreen broadleaf forest	[120]
414	-25.63	151.93	20.00	622.00	131.00	temperate evergreen broadleaf forest	[116]
415	53.75	13.25	8.70	586.00	131.39	temperate evergreen broadleaf forest	[120]
416	42.54	80.85	1.40	370.00	131.61	temperate evergreen broadleaf forest	[120]
417	51.00	26.00	7.70	583.00	134.25	temperate evergreen broadleaf forest	[120]
418	49.00	24.58	7.60	682.00	136.73	temperate evergreen broadleaf forest	[120]
419	31.67	131.33	15.70	2633.00	140.53	temperate evergreen broadleaf forest	[120]
420	51.66	26.00	7.40	591.00	142.13	temperate evergreen broadleaf forest	[120]
421	35.00	136.00	13.10	1715.00	143.61	temperate evergreen broadleaf forest	[120]
422	57.54	53.00	2.30	583.00	143.87	temperate evergreen broadleaf forest	[120]
423	54.17	27.50	6.00	673.00	144.59	temperate evergreen broadleaf forest	[120]
424	35.50	138.67	7.90	1640.00	144.60	temperate evergreen broadleaf forest	[120]
425	34.73	136.20	13.30	1626.00	145.63	temperate evergreen broadleaf forest	[120]
426	54.00	44.00	4.70	551.00	148.30	temperate evergreen broadleaf forest	[120]
427	56.25	76.35	0.50	419.00	148.50	temperate evergreen broadleaf forest	[120]
428	51.32	26.69	7.80	593.00	149.05	temperate evergreen broadleaf forest	[120]
429	55.50	55.50	3.00	560.00	149.48	temperate evergreen broadleaf forest	[120]
430	42.83	78.84	1.30	370.00	151.32	temperate evergreen broadleaf forest	[120]
431	50.50	30.70	8.20	607.00	151.60	temperate evergreen broadleaf forest	[120]

432	51.83	39.58	6.30	510.00	152.30	temperate evergreen broadleaf forest	[120]
433	36.00	139.00	13.00	1244.00	152.60	temperate evergreen broadleaf forest	[120]
434	43.50	24.00	11.90	553.00	152.73	temperate evergreen broadleaf forest	[120]
435	51.00	24.00	7.90	565.00	152.83	temperate evergreen broadleaf forest	[120]
436	53.00	42.00	5.20	529.00	153.01	temperate evergreen broadleaf forest	[120]
437	52.09	31.41	7.00	606.00	153.15	temperate evergreen broadleaf forest	[120]
438	44.00	142.50	4.10	1072.00	153.95	temperate evergreen broadleaf forest	[120]
439	43.34	77.85	10.20	341.00	156.23	temperate evergreen broadleaf forest	[120]
440	36.83	139.67	10.50	1543.00	156.34	temperate evergreen broadleaf forest	[120]
441	50.00	27.00	8.50	523.00	156.76	temperate evergreen broadleaf forest	[120]
442	45.00	25.00	6.30	876.00	157.50	temperate evergreen broadleaf forest	[120]
443	32.83	130.67	14.80	2353.00	158.87	temperate evergreen broadleaf forest	[120]
444	51.50	31.67	7.30	600.00	159.58	temperate evergreen broadleaf forest	[120]
445	51.50	32.30	7.10	604.00	159.83	temperate evergreen broadleaf forest	[120]
446	56.00	36.45	4.60	691.00	160.60	temperate evergreen broadleaf forest	[120]
447	27.53	98.96	7.20	924.00	161.40	temperate evergreen broadleaf forest	[119]
448	56.50	36.75	4.50	684.00	161.78	temperate evergreen broadleaf forest	[120]
449	59.75	30.50	4.70	630.00	164.27	temperate evergreen broadleaf forest	[120]
450	55.83	39.00	4.70	589.00	166.08	temperate evergreen broadleaf forest	[120]
451	51.75	9.60	8.00	722.00	167.10	temperate evergreen broadleaf forest	[121]
452	47.50	8.75	8.80	992.00	167.40	temperate evergreen broadleaf forest	[120]
453	50.47	22.98	8.30	610.00	168.60	temperate evergreen broadleaf forest	[119]
454	49.50	27.50	8.30	535.00	168.79	temperate evergreen broadleaf forest	[120]
455	49.25	34.90	8.80	498.00	170.20	temperate evergreen broadleaf forest	[120]
456	50.45	30.30	8.30	617.00	171.30	temperate evergreen broadleaf forest	[120]
457	56.50	52.00	2.90	557.00	173.05	temperate evergreen broadleaf forest	[120]
458	51.95	31.83	7.30	600.00	173.16	temperate evergreen broadleaf forest	[120]
459	51.00	28.00	7.40	614.00	173.76	temperate evergreen broadleaf forest	[120]
460	54.00	27.58	6.00	673.00	173.83	temperate evergreen broadleaf forest	[120]
461	51.51	25.74	7.40	584.00	174.30	temperate evergreen broadleaf forest	[120]
462	55.00	37.50	5.10	623.00	174.63	temperate evergreen broadleaf forest	[120]

463	47.33	-94.50	4.30	631.00	175.00	temperate evergreen broadleaf forest	[121]
464	42.04	124.10	5.90	727.00	175.04	temperate evergreen broadleaf forest	[102]
465	-27.63	153.09	19.70	1280.00	175.80	temperate evergreen broadleaf forest	[116]
466	33.08	130.85	14.70	2085.00	175.88	temperate evergreen broadleaf forest	[120]
467	56.67	49.00	3.40	573.00	175.96	temperate evergreen broadleaf forest	[120]
468	54.75	56.17	3.40	526.00	176.63	temperate evergreen broadleaf forest	[120]
469	47.30	28.30	9.50	554.00	179.63	temperate evergreen broadleaf forest	[120]
470	47.83	7.67	8.50	1111.00	179.66	temperate evergreen broadleaf forest	[120]
471	49.44	29.65	7.70	604.00	179.75	temperate evergreen broadleaf forest	[120]
472	34.92	132.11	12.60	1825.00	183.16	temperate evergreen broadleaf forest	[120]
473	50.00	24.50	7.50	652.00	184.30	temperate evergreen broadleaf forest	[120]
474	35.00	138.00	8.10	1898.00	184.74	temperate evergreen broadleaf forest	[120]
475	34.50	136.50	15.40	1783.00	185.58	temperate evergreen broadleaf forest	[120]
476	54.30	38.50	4.80	553.00	186.10	temperate evergreen broadleaf forest	[120]
477	54.50	44.00	4.50	572.00	186.91	temperate evergreen broadleaf forest	[120]
478	50.20	27.10	8.50	523.00	187.37	temperate evergreen broadleaf forest	[120]
479	51.80	32.53	6.90	610.00	187.45	temperate evergreen broadleaf forest	[120]
480	52.07	31.86	6.90	609.00	187.93	temperate evergreen broadleaf forest	[120]
481	51.48	25.79	7.60	583.00	189.60	temperate evergreen broadleaf forest	[120]
482	49.40	35.20	8.70	520.00	190.55	temperate evergreen broadleaf forest	[120]
483	57.00	84.00	0.00	518.00	190.80	temperate evergreen broadleaf forest	[120]
484	50.50	29.50	7.80	617.00	191.32	temperate evergreen broadleaf forest	[120]
485	51.20	42.00	6.40	444.00	192.88	temperate evergreen broadleaf forest	[120]
486	35.33	135.75	12.90	1731.00	193.08	temperate evergreen broadleaf forest	[120]
487	44.70	129.70	2.80	555.00	193.40	temperate evergreen broadleaf forest	[119]
488	50.31	30.18	8.30	617.00	193.90	temperate evergreen broadleaf forest	[120]
489	56.00	-4.00	6.70	1951.00	193.93	temperate evergreen broadleaf forest	[120]
490	51.80	31.98	7.30	600.00	196.56	temperate evergreen broadleaf forest	[120]
491	51.55	26.00	7.40	591.00	196.90	temperate evergreen broadleaf forest	[120]
492	53.00	26.00	6.80	607.00	196.98	temperate evergreen broadleaf forest	[120]
493	51.29	26.48	7.70	583.00	199.10	temperate evergreen broadleaf forest	[120]

494	54.20	38.00	5.00	565.00	201.02	temperate evergreen broadleaf forest	[120]
495	54.50	38.83	4.70	581.00	202.30	temperate evergreen broadleaf forest	[120]
496	51.64	33.91	6.80	601.00	203.60	temperate evergreen broadleaf forest	[120]
497	41.77	14.37	13.40	690.00	205.95	temperate evergreen broadleaf forest	[120]
498	27.02	100.35	5.80	861.00	208.60	temperate evergreen broadleaf forest	[119]
499	47.50	28.50	9.30	539.00	209.00	temperate evergreen broadleaf forest	[120]
500	51.33	42.00	6.40	444.00	210.74	temperate evergreen broadleaf forest	[120]
501	50.17	37.79	8.60	509.00	212.30	temperate evergreen broadleaf forest	[120]
502	26.80	100.20	8.80	917.00	222.90	temperate evergreen broadleaf forest	[119]
503	36.00	139.13	13.00	1244.00	223.30	temperate evergreen broadleaf forest	[120]
504	-37.75	144.07	13.10	651.00	231.00	temperate evergreen broadleaf forest	[116]
505	50.00	26.30	8.00	536.00	233.26	temperate evergreen broadleaf forest	[120]
506	33.50	133.50	12.40	2138.00	233.74	temperate evergreen broadleaf forest	[120]
507	55.67	37.00	5.00	658.00	235.35	temperate evergreen broadleaf forest	[120]
508	48.18	17.90	9.70	604.00	236.55	temperate evergreen broadleaf forest	[121]
509	52.00	28.00	7.20	623.00	242.84	temperate evergreen broadleaf forest	[120]
510	48.43	99.88	-5.70	289.00	242.90	temperate evergreen broadleaf forest	[120]
511	50.00	25.00	7.20	644.00	244.24	temperate evergreen broadleaf forest	[120]
512	48.33	1.17	10.50	627.00	244.80	temperate evergreen broadleaf forest	[120]
513	56.00	82.83	0.40	488.00	244.90	temperate evergreen broadleaf forest	[120]
514	42.50	-0.67	8.20	962.00	246.20	temperate evergreen broadleaf forest	[120]
515	-37.57	146.68	11.40	979.00	246.65	temperate evergreen broadleaf forest	[116]
516	51.33	33.92	7.10	586.00	247.90	temperate evergreen broadleaf forest	[120]
517	36.67	138.50	8.20	1492.00	249.90	temperate evergreen broadleaf forest	[120]
518	50.20	30.00	8.30	617.00	252.20	temperate evergreen broadleaf forest	[120]
519	37.00	140.67	10.90	1349.00	254.29	temperate evergreen broadleaf forest	[120]
520	-27.36	152.76	19.30	1025.00	254.55	temperate evergreen broadleaf forest	[116]
521	52.50	24.20	7.40	568.00	254.70	temperate evergreen broadleaf forest	[120]
522	52.00	30.00	7.10	625.00	258.97	temperate evergreen broadleaf forest	[120]
523	35.80	137.83	6.00	1812.00	264.93	temperate evergreen broadleaf forest	[120]
524	41.87	13.63	14.60	803.00	267.80	temperate evergreen broadleaf forest	[120]

525	35.93	138.85	7.90	1640.00	274.00	temperate evergreen broadleaf forest	[120]
526	50.93	13.46	7.90	594.00	274.70	temperate evergreen broadleaf forest	[119]
527	37.50	139.00	11.10	1692.00	275.93	temperate evergreen broadleaf forest	[120]
528	29.71	94.40	2.70	658.00	277.40	temperate evergreen broadleaf forest	[102]
529	34.07	135.50	12.40	2197.00	279.27	temperate evergreen broadleaf forest	[120]
530	50.25	24.30	7.70	656.00	280.20	temperate evergreen broadleaf forest	[120]
531	51.00	13.50	9.30	536.00	283.60	temperate evergreen broadleaf forest	[120]
532	54.00	25.33	6.60	642.00	295.60	temperate evergreen broadleaf forest	[120]
533	54.67	25.00	6.50	650.00	298.50	temperate evergreen broadleaf forest	[120]
534	55.73	13.30	7.90	647.00	299.13	temperate evergreen broadleaf forest	[120]
535	50.42	24.50	7.50	652.00	303.00	temperate evergreen broadleaf forest	[120]
536	48.20	7.18	8.80	917.00	308.90	temperate evergreen broadleaf forest	[120]
537	53.00	-6.50	9.50	799.00	310.20	temperate evergreen broadleaf forest	[121]
538	44.20	3.68	13.10	776.00	310.50	temperate evergreen broadleaf forest	[121]
539	-33.33	151.36	17.00	980.00	313.90	temperate evergreen broadleaf forest	[116]
540	56.00	24.00	6.50	594.00	315.50	temperate evergreen broadleaf forest	[120]
541	48.25	11.67	8.40	775.00	317.25	temperate evergreen broadleaf forest	[120]
542	49.92	16.25	7.40	714.00	317.60	temperate evergreen broadleaf forest	[120]
543	44.09	3.50	13.10	776.00	319.00	temperate evergreen broadleaf forest	[120]
544	53.00	-6.22	9.20	943.00	324.80	temperate evergreen broadleaf forest	[120]
545	53.33	30.83	6.30	619.00	325.07	temperate evergreen broadleaf forest	[120]
546	29.50	80.83	11.80	1059.00	344.47	temperate evergreen broadleaf forest	[120]
547	42.00	23.00	7.70	694.00	357.50	temperate evergreen broadleaf forest	[121]
548	51.50	10.00	8.00	658.00	390.49	temperate evergreen broadleaf forest	[120]
549	55.98	13.17	7.90	647.00	399.00	temperate evergreen broadleaf forest	[120]
550	49.00	15.00	7.30	704.00	484.90	temperate evergreen broadleaf forest	[120]
551	-42.01	146.52	8.80	998.00	262.10	temperate deciduous forest	[116]
552	-37.15	142.41	12.70	592.00	156.50	temperate deciduous forest	[116]
553	-32.33	148.23	17.50	539.00	72.35	temperate deciduous forest	[121]
554	-28.86	150.90	18.80	634.00	53.90	temperate deciduous forest	[116]
555	32.12	118.95	15.30	1039.00	64.84	temperate deciduous forest	[102]

556	35.00	136.33	13.10	1715.00	184.00	temperate deciduous forest	[121]
557	35.00	138.00	8.10	1898.00	185.00	temperate deciduous forest	[121]
558	36.85	138.68	8.20	1492.00	330.76	temperate deciduous forest	[120]
559	37.10	128.92	8.10	1391.00	145.10	temperate deciduous forest	[120]
560	37.50	127.50	9.50	1260.00	283.44	temperate deciduous forest	[120]
561	37.52	-89.32	13.90	1145.00	322.30	temperate deciduous forest	[119]
562	37.72	-83.80	13.10	1174.00	405.90	temperate deciduous forest	[119]
563	40.50	123.20	5.90	775.00	140.70	temperate deciduous forest	[119]
564	40.88	123.91	6.10	841.00	154.56	temperate deciduous forest	[102]
565	41.41	123.98	7.00	787.00	120.60	temperate deciduous forest	[102]
566	41.50	140.02	7.70	1321.00	213.18	temperate deciduous forest	[121]
567	41.80	126.90	4.20	852.00	172.60	temperate deciduous forest	[119]
568	42.17	43.00	9.20	853.00	217.15	temperate deciduous forest	[120]
569	42.20	127.30	3.30	795.00	271.10	temperate deciduous forest	[119]
570	42.28	128.00	0.80	861.00	283.60	temperate deciduous forest	[102]
571	42.30	127.20	3.30	795.00	149.10	temperate deciduous forest	[119]
572	42.42	128.20	0.80	861.00	233.46	temperate deciduous forest	[119]
573	42.46	73.39	1.90	318.00	84.10	temperate deciduous forest	[120]
574	42.47	-123.27	10.30	892.00	972.30	temperate deciduous forest	[119]
575	42.50	23.00	9.50	630.00	204.17	temperate deciduous forest	[120]
576	42.50	24.00	8.60	680.00	357.50	temperate deciduous forest	[120]
577	42.51	74.88	1.40	332.00	71.60	temperate deciduous forest	[120]
578	42.59	12.98	8.40	897.00	180.80	temperate deciduous forest	[120]
579	42.68	129.53	2.90	681.00	91.10	temperate deciduous forest	[102]
580	42.69	78.96	1.80	319.00	48.37	temperate deciduous forest	[120]
581	43.00	24.00	11.20	573.00	133.75	temperate deciduous forest	[120]
582	43.00	27.50	11.80	528.00	116.87	temperate deciduous forest	[120]
583	43.17	-4.17	11.30	963.00	304.60	temperate deciduous forest	[120]
584	43.22	142.45	4.60	1204.00	156.00	temperate deciduous forest	[120]
585	43.25	25.00	11.20	585.00	78.95	temperate deciduous forest	[120]
586	43.30	129.70	2.50	629.00	176.95	temperate deciduous forest	[119]

587	43.30	134.00	3.10	878.00	150.78	temperate deciduous forest	[120]
588	43.50	134.00	0.90	855.00	141.20	temperate deciduous forest	[120]
589	43.91	-71.66	5.50	1087.00	159.13	temperate deciduous forest	[121]
590	43.94	11.63	9.40	795.00	341.29	temperate deciduous forest	[120]
591	44.00	-71.50	3.00	1325.00	157.40	temperate deciduous forest	[121]
592	44.00	133.00	3.50	715.00	246.23	temperate deciduous forest	[120]
593	44.00	134.00	1.70	777.00	210.20	temperate deciduous forest	[120]
594	44.06	-71.29	2.90	1390.00	264.00	temperate deciduous forest	[119]
595	44.10	130.20	2.00	590.00	237.00	temperate deciduous forest	[119]
596	44.20	134.00	1.70	777.00	205.22	temperate deciduous forest	[120]
597	44.30	128.50	2.20	587.00	144.40	temperate deciduous forest	[119]
598	44.30	129.40	3.60	555.00	202.10	temperate deciduous forest	[119]
599	44.30	134.30	1.70	777.00	220.98	temperate deciduous forest	[120]
600	44.50	134.50	1.50	745.00	196.48	temperate deciduous forest	[120]
601	44.50	142.50	5.20	1056.00	313.40	temperate deciduous forest	[120]
602	45.00	-77.00	4.60	835.00	278.00	temperate deciduous forest	[119]
603	45.00	135.00	0.90	754.00	196.02	temperate deciduous forest	[120]
604	45.28	127.52	2.70	566.00	115.13	temperate deciduous forest	[102]
605	46.00	-66.00	4.50	1125.00	214.00	temperate deciduous forest	[119]
606	46.00	4.33	10.10	855.00	330.70	temperate deciduous forest	[120]
607	46.21	131.80	3.20	560.00	151.95	temperate deciduous forest	[119]
608	46.80	134.00	1.90	671.00	137.45	temperate deciduous forest	[119]
609	47.00	129.00	-2.30	616.00	91.20	temperate deciduous forest	[119]
610	47.00	136.00	-0.20	790.00	272.20	temperate deciduous forest	[120]
611	47.22	128.77	-0.60	599.00	208.05	temperate deciduous forest	[102]
612	47.33	-94.50	4.30	631.00	189.44	temperate deciduous forest	[121]
613	47.83	16.50	10.10	676.00	248.89	temperate deciduous forest	[120]
614	47.98	139.00	-1.70	816.00	196.10	temperate deciduous forest	[120]
615	48.00	12.00	8.60	851.00	384.00	temperate deciduous forest	[120]
616	48.09	-81.27	1.80	817.00	413.30	temperate deciduous forest	[119]
617	48.10	129.30	-0.80	602.00	185.60	temperate deciduous forest	[119]

618	48.17	-89.89	2.00	733.00	260.30	temperate deciduous forest	[119]
619	48.37	23.67	6.20	888.00	343.50	temperate deciduous forest	[119]
620	48.40	2.70	11.60	607.00	300.90	temperate deciduous forest	[121]
621	48.44	23.39	8.30	795.00	223.00	temperate deciduous forest	[119]
622	48.58	18.00	8.20	790.00	226.34	temperate deciduous forest	[120]
623	48.58	19.08	5.60	981.00	197.90	temperate deciduous forest	[120]
624	48.75	6.50	9.90	723.00	237.40	temperate deciduous forest	[120]
625	49.00	24.50	7.60	682.00	201.44	temperate deciduous forest	[120]
626	49.03	-73.96	0.50	837.00	378.80	temperate deciduous forest	[119]
627	49.17	23.50	7.90	746.00	318.33	temperate deciduous forest	[120]
628	49.17	23.83	7.90	746.00	168.23	temperate deciduous forest	[120]
629	49.23	15.37	7.30	704.00	230.03	temperate deciduous forest	[120]
630	49.38	-114.39	1.40	780.00	217.80	temperate deciduous forest	[119]
631	49.50	5.00	8.80	1155.00	129.90	temperate deciduous forest	[120]
632	49.50	23.00	8.20	679.00	142.77	temperate deciduous forest	[120]
633	49.57	13.95	7.50	639.00	382.50	temperate deciduous forest	[120]
634	49.69	-96.14	2.00	541.00	554.40	temperate deciduous forest	[119]
635	49.77	36.66	7.60	515.00	97.83	temperate deciduous forest	[120]
636	49.98	20.37	6.90	820.00	293.30	temperate deciduous forest	[121]
637	50.00	15.00	8.70	640.00	248.84	temperate deciduous forest	[120]
638	50.03	5.27	9.30	872.00	264.99	temperate deciduous forest	[120]
639	50.07	4.35	10.10	865.00	207.08	temperate deciduous forest	[119]
640	50.07	32.98	7.80	593.00	170.39	temperate deciduous forest	[120]
641	50.10	20.37	8.40	681.00	286.45	temperate deciduous forest	[120]
642	50.17	83.39	3.20	427.00	91.65	temperate deciduous forest	[120]
643	50.18	-114.47	1.60	652.00	375.70	temperate deciduous forest	[119]
644	50.33	5.67	8.90	1045.00	249.75	temperate deciduous forest	[120]
645	50.45	11.45	7.90	603.00	337.90	temperate deciduous forest	[119]
646	50.83	29.00	7.40	618.00	209.37	temperate deciduous forest	[120]
647	50.97	26.43	7.60	570.00	131.48	temperate deciduous forest	[120]
648	51.00	-125.00	1.00	1343.00	196.80	temperate deciduous forest	[119]

649	51.04	88.00	-0.90	506.00	163.16	temperate deciduous forest	[120]
650	51.10	-116.00	-1.90	948.00	206.10	temperate deciduous forest	[121]
651	51.17	5.33	10.20	795.00	278.20	temperate deciduous forest	[120]
652	51.40	125.20	-3.40	474.00	176.00	temperate deciduous forest	[119]
653	51.45	23.74	7.90	546.00	147.40	temperate deciduous forest	[120]
654	51.59	34.10	6.70	588.00	166.10	temperate deciduous forest	[120]
655	51.70	126.60	-1.70	480.00	87.20	temperate deciduous forest	[119]
656	51.75	9.06	7.90	771.00	169.20	temperate deciduous forest	[121]
657	51.81	9.58	8.00	722.00	312.10	temperate deciduous forest	[121]
658	51.96	31.24	7.40	607.00	114.60	temperate deciduous forest	[120]
659	51.97	33.94	6.80	601.00	101.30	temperate deciduous forest	[120]
660	52.00	89.00	-1.90	482.00	143.05	temperate deciduous forest	[120]
661	52.00	94.00	-4.30	754.00	223.60	temperate deciduous forest	[119]
662	52.00	96.00	-4.00	545.00	133.94	temperate deciduous forest	[120]
663	52.06	95.00	-6.70	684.00	140.97	temperate deciduous forest	[120]
664	52.19	102.36	-0.70	462.00	193.80	temperate deciduous forest	[119]
665	52.50	27.83	7.00	630.00	168.10	temperate deciduous forest	[120]
666	52.92	89.63	0.70	472.00	184.87	temperate deciduous forest	[120]
667	52.94	92.00	0.50	553.00	189.19	temperate deciduous forest	[120]
668	53.00	14.00	8.70	569.00	200.80	temperate deciduous forest	[120]
669	53.00	122.40	-5.20	428.00	139.40	temperate deciduous forest	[119]
670	53.25	28.83	6.50	641.00	219.63	temperate deciduous forest	[120]
671	53.30	50.20	4.80	486.00	122.70	temperate deciduous forest	[120]
672	53.30	57.00	1.40	444.00	132.89	temperate deciduous forest	[120]
673	53.50	28.00	6.50	642.00	312.20	temperate deciduous forest	[120]
674	53.50	57.00	1.20	476.00	90.31	temperate deciduous forest	[120]
675	54.00	-115.00	1.40	523.00	278.00	temperate deciduous forest	[119]
676	54.00	26.00	6.30	653.00	126.01	temperate deciduous forest	[120]
677	54.00	86.00	1.30	527.00	138.70	temperate deciduous forest	[120]
678	54.00	90.00	-1.30	511.00	185.13	temperate deciduous forest	[120]
679	54.17	-116.77	2.50	559.00	340.00	temperate deciduous forest	[119]

680	54.42	90.00	-1.30	511.00	192.91	temperate deciduous forest	[120]
681	55.00	89.50	0.00	477.00	141.74	temperate deciduous forest	[120]
682	55.40	36.40	5.00	660.00	186.80	temperate deciduous forest	[120]
683	55.50	23.60	6.50	617.00	161.09	temperate deciduous forest	[120]
684	55.62	64.00	2.70	320.00	108.20	temperate deciduous forest	[120]
685	55.75	13.91	7.60	649.00	310.50	temperate deciduous forest	[121]
686	55.99	91.35	-0.10	487.00	140.50	temperate deciduous forest	[120]
687	56.00	13.50	7.30	698.00	331.20	temperate deciduous forest	[120]
688	56.00	42.00	4.30	604.00	172.05	temperate deciduous forest	[120]
689	56.00	82.50	0.40	488.00	167.00	temperate deciduous forest	[120]
690	56.00	90.50	0.00	463.00	175.29	temperate deciduous forest	[120]
691	56.00	91.00	-0.20	473.00	197.86	temperate deciduous forest	[120]
692	56.17	90.83	0.00	463.00	158.83	temperate deciduous forest	[120]
693	56.23	90.48	-0.60	405.00	151.89	temperate deciduous forest	[120]
694	56.30	33.00	4.10	736.00	145.42	temperate deciduous forest	[120]
695	56.34	90.15	-0.80	484.00	96.46	temperate deciduous forest	[120]
696	56.35	57.40	2.00	573.00	183.59	temperate deciduous forest	[120]
697	56.45	32.92	4.30	718.00	233.70	temperate deciduous forest	[119]
698	56.48	8.40	8.40	838.00	241.60	temperate deciduous forest	[120]
699	56.50	33.00	4.00	749.00	257.59	temperate deciduous forest	[120]
700	56.55	-119.31	-1.40	417.00	323.20	temperate deciduous forest	[119]
701	56.65	85.00	0.40	559.00	181.45	temperate deciduous forest	[120]
702	56.67	57.75	1.60	593.00	143.20	temperate deciduous forest	[120]
703	56.71	85.00	0.40	559.00	237.32	temperate deciduous forest	[120]
704	57.00	12.50	7.00	741.00	162.60	temperate deciduous forest	[120]
705	57.00	83.00	-0.10	502.00	172.90	temperate deciduous forest	[120]
706	57.13	-118.33	-1.30	401.00	422.50	temperate deciduous forest	[119]
707	57.40	85.00	0.00	539.00	189.30	temperate deciduous forest	[120]
708	57.51	30.74	7.60	570.00	269.90	temperate deciduous forest	[120]
709	58.00	13.50	5.70	631.00	231.06	temperate deciduous forest	[120]
710	58.00	33.00	4.10	713.00	194.30	temperate deciduous forest	[120]

711	59.00	26.00	4.70	666.00	207.08	temperate deciduous forest	[120]
712	59.50	17.67	5.90	530.00	129.60	temperate deciduous forest	[120]
713	70.92	101.00	-12.80	269.00	10.80	boreal forest	[120]
714	65.50	60.00	-4.60	488.00	12.20	boreal forest	[120]
715	55.50	123.50	-7.80	513.00	13.20	boreal forest	[120]
716	60.00	151.00	-9.10	428.00	16.68	boreal forest	[120]
717	57.00	59.58	1.30	598.00	16.98	boreal forest	[120]
718	62.00	147.00	-13.20	315.00	16.99	boreal forest	[120]
719	56.00	101.00	-3.30	388.00	17.60	boreal forest	[120]
720	68.00	33.00	-0.40	538.00	18.75	boreal forest	[120]
721	66.87	102.33	-11.90	321.00	18.77	boreal forest	[119]
722	64.00	100.00	-9.80	381.00	20.15	boreal forest	[119]
723	63.00	151.00	-14.70	331.00	21.47	boreal forest	[120]
724	68.21	160.00	-12.70	168.00	21.50	boreal forest	[119]
725	66.50	60.00	-4.70	444.00	24.05	boreal forest	[120]
726	55.10	125.00	-6.50	537.00	24.80	boreal forest	[120]
727	61.15	150.00	-11.50	404.00	26.60	boreal forest	[120]
728	69.29	99.50	-12.10	291.00	26.80	boreal forest	[119]
729	60.18	15.86	3.90	642.00	28.00	boreal forest	[122]
730	61.30	59.17	-3.70	614.00	28.03	boreal forest	[120]
731	68.73	104.33	-11.60	275.00	28.55	boreal forest	[119]
732	57.30	41.00	4.00	597.00	28.95	boreal forest	[120]
733	64.32	100.22	-9.80	381.00	29.00	boreal forest	[119]
734	57.33	43.00	3.90	603.00	29.10	boreal forest	[120]
735	69.88	135.62	-16.90	171.00	29.19	boreal forest	[120]
736	66.00	91.00	-8.70	501.00	30.21	boreal forest	[120]
737	58.50	29.11	4.80	637.00	30.70	boreal forest	[122]
738	66.10	67.00	-4.90	414.00	31.80	boreal forest	[120]
739	59.96	33.50	3.70	646.00	32.50	boreal forest	[122]
740	65.00	44.00	-0.20	547.00	34.80	boreal forest	[120]
741	65.38	34.50	1.50	587.00	36.13	boreal forest	[120]

742	68.30	90.00	-11.60	404.00	36.23	boreal forest	[120]
743	57.83	43.33	3.60	602.00	36.40	boreal forest	[120]
744	69.58	27.02	-2.50	506.00	37.00	boreal forest	[119]
745	60.00	59.00	-3.00	637.00	37.27	boreal forest	[120]
746	58.20	82.00	-0.80	501.00	37.80	boreal forest	[120]
747	56.25	60.10	1.40	547.00	38.15	boreal forest	[120]
748	62.00	102.50	-8.70	388.00	39.00	boreal forest	[120]
749	67.50	87.00	-8.30	478.00	39.10	boreal forest	[120]
750	57.50	41.00	3.90	592.00	41.00	boreal forest	[120]
751	57.83	43.83	3.50	614.00	41.27	boreal forest	[120]
752	59.30	60.00	0.80	566.00	41.60	boreal forest	[120]
753	68.00	34.00	-0.50	527.00	45.20	boreal forest	[120]
754	58.00	69.00	0.00	479.00	45.90	boreal forest	[120]
755	56.42	60.17	1.40	547.00	46.59	boreal forest	[120]
756	64.17	47.67	-0.80	589.00	48.61	boreal forest	[120]
757	55.00	60.00	1.70	527.00	49.20	boreal forest	[120]
758	57.50	60.33	1.50	575.00	51.91	boreal forest	[120]
759	59.67	90.00	-2.20	537.00	52.20	boreal forest	[120]
760	67.00	123.00	-12.10	286.00	52.27	boreal forest	[120]
761	59.80	14.70	4.20	704.00	52.83	boreal forest	[120]
762	63.12	27.75	3.10	507.00	54.50	boreal forest	[120]
763	60.00	148.00	-8.00	406.00	55.11	boreal forest	[120]
764	60.51	23.85	4.30	559.00	55.93	boreal forest	[121]
765	61.10	24.08	3.80	536.00	55.93	boreal forest	[120]
766	67.78	86.00	-8.90	436.00	56.47	boreal forest	[120]
767	68.00	92.00	-12.80	459.00	58.93	boreal forest	[120]
768	59.00	53.00	1.40	616.00	59.18	boreal forest	[120]
769	67.73	33.83	-2.00	697.00	59.70	boreal forest	[120]
770	64.00	13.00	1.20	840.00	62.60	boreal forest	[120]
771	60.82	16.50	4.40	606.00	62.78	boreal forest	[119]
772	61.00	69.00	-1.80	509.00	62.80	boreal forest	[120]

773	66.00	28.00	-0.60	566.00	63.10	boreal forest	[120]
774	57.00	126.30	-8.40	566.00	63.20	boreal forest	[120]
775	62.00	117.00	-7.90	293.00	63.40	boreal forest	[120]
776	62.00	89.00	-3.90	554.00	63.80	boreal forest	[120]
777	57.00	61.00	1.90	510.00	64.91	boreal forest	[120]
778	64.90	20.50	2.20	516.00	65.55	boreal forest	[120]
779	58.00	97.00	-2.20	405.00	66.02	boreal forest	[120]
780	68.00	87.00	-8.70	465.00	66.03	boreal forest	[120]
781	62.78	30.97	2.40	582.00	66.80	boreal forest	[123]
782	58.20	125.30	-7.40	545.00	67.20	boreal forest	[120]
783	67.00	32.00	-0.70	571.00	67.38	boreal forest	[120]
784	55.00	98.50	-1.30	408.00	67.93	boreal forest	[120]
785	60.83	16.47	3.70	632.00	68.80	boreal forest	[120]
786	62.78	30.96	2.40	582.00	69.40	boreal forest	[123]
787	62.78	30.97	2.40	582.00	71.58	boreal forest	[120]
788	56.83	48.50	3.40	573.00	71.65	boreal forest	[120]
789	59.50	30.58	4.70	630.00	72.07	boreal forest	[120]
790	57.50	102.00	-3.90	372.00	72.10	boreal forest	[120]
791	68.30	90.00	-11.60	404.00	73.10	boreal forest	[119]
792	66.30	60.00	-4.10	462.00	73.82	boreal forest	[120]
793	61.65	29.28	3.60	543.00	73.90	boreal forest	[119]
794	57.00	59.30	1.40	620.00	75.10	boreal forest	[120]
795	64.50	55.50	-1.80	557.00	75.49	boreal forest	[120]
796	55.00	127.00	-5.40	550.00	75.95	boreal forest	[120]
797	63.00	152.00	-12.70	315.00	78.15	boreal forest	[120]
798	60.00	40.00	2.10	629.00	78.43	boreal forest	[120]
799	62.15	117.20	-7.90	293.00	78.80	boreal forest	[120]
800	63.67	43.00	0.60	601.00	78.91	boreal forest	[120]
801	60.00	150.00	-8.20	424.00	79.37	boreal forest	[120]
802	61.00	87.00	-3.20	555.00	79.66	boreal forest	[120]
803	62.42	92.33	-5.60	558.00	80.05	boreal forest	[120]

804	67.50	35.00	-0.50	531.00	80.09	boreal forest	[120]
805	65.50	90.00	-7.90	530.00	80.80	boreal forest	[120]
806	57.30	60.20	1.90	559.00	81.03	boreal forest	[120]
807	57.70	38.57	3.90	627.00	82.57	boreal forest	[120]
808	62.00	118.00	-8.00	288.00	82.70	boreal forest	[120]
809	59.50	60.00	0.20	547.00	85.60	boreal forest	[120]
810	62.07	24.57	3.50	515.00	85.68	boreal forest	[120]
811	59.17	36.00	3.40	697.00	86.16	boreal forest	[120]
812	67.30	86.00	-7.40	487.00	86.50	boreal forest	[120]
813	56.75	48.00	3.50	577.00	86.70	boreal forest	[120]
814	54.33	58.67	0.10	481.00	87.18	boreal forest	[120]
815	60.27	11.10	4.40	731.00	87.20	boreal forest	[120]
816	68.50	34.00	-0.40	519.00	87.93	boreal forest	[120]
817	66.00	88.00	-7.30	524.00	88.00	boreal forest	[120]
818	62.50	88.00	-4.20	561.00	88.60	boreal forest	[120]
819	55.00	123.00	-7.00	481.00	88.77	boreal forest	[120]
820	56.00	-94.00	-4.40	492.00	89.80	boreal forest	[119]
821	64.72	26.02	1.90	514.00	89.80	boreal forest	[119]
822	61.50	41.00	1.60	621.00	90.28	boreal forest	[120]
823	67.65	31.08	-1.20	613.00	90.38	boreal forest	[120]
824	61.00	42.50	2.20	579.00	91.13	boreal forest	[120]
825	51.00	105.00	-3.90	636.00	91.30	boreal forest	[120]
826	53.97	109.37	-4.00	371.00	91.57	boreal forest	[120]
827	62.00	87.00	-4.00	556.00	92.25	boreal forest	[120]
828	59.50	90.00	-2.20	537.00	94.27	boreal forest	[120]
829	55.88	98.20	-1.60	423.00	94.43	boreal forest	[124]
830	55.80	-97.87	-3.00	488.00	94.95	boreal forest	[119]
831	64.00	42.00	0.70	586.00	95.30	boreal forest	[120]
832	57.00	61.17	1.90	510.00	96.07	boreal forest	[120]
833	65.37	78.00	-6.50	419.00	97.92	boreal forest	[120]
834	62.85	30.97	2.40	582.00	99.40	boreal forest	[119]

835	63.00	144.72	-18.30	297.00	100.00	boreal forest	[121]
836	64.00	100.00	-9.80	381.00	100.00	boreal forest	[121]
837	68.21	160.00	-12.70	168.00	100.00	boreal forest	[121]
838	57.00	125.00	-7.80	548.00	100.50	boreal forest	[120]
839	57.67	38.17	4.00	641.00	100.60	boreal forest	[120]
840	67.00	33.00	-0.80	576.00	100.87	boreal forest	[120]
841	63.30	38.40	1.60	656.00	101.04	boreal forest	[120]
842	64.00	48.00	-0.70	577.00	101.10	boreal forest	[120]
843	61.00	76.00	-2.70	522.00	101.70	boreal forest	[120]
844	61.13	24.00	3.80	536.00	103.27	boreal forest	[120]
845	59.00	99.00	-4.10	382.00	104.20	boreal forest	[120]
846	60.85	128.27	-9.70	336.00	105.04	boreal forest	[120]
847	66.00	20.00	-0.80	526.00	105.65	boreal forest	[121]
848	61.42	21.63	4.70	543.00	106.05	boreal forest	[120]
849	62.50	41.00	1.40	612.00	106.32	boreal forest	[120]
850	64.75	-148.25	-2.90	301.00	107.78	boreal forest	[121]
851	65.50	57.50	-3.00	520.00	108.37	boreal forest	[120]
852	57.00	62.00	2.00	479.00	108.38	boreal forest	[120]
853	56.00	125.00	-7.90	562.00	108.70	boreal forest	[120]
854	59.00	93.00	-3.80	535.00	108.85	boreal forest	[120]
855	62.67	40.42	1.50	638.00	109.83	boreal forest	[120]
856	58.30	99.30	-3.20	370.00	111.60	boreal forest	[120]
857	52.25	113.00	-3.00	356.00	112.96	boreal forest	[120]
858	63.50	38.67	1.70	626.00	113.46	boreal forest	[120]
859	57.00	63.00	1.70	461.00	113.90	boreal forest	[120]
860	51.00	105.46	-2.90	556.00	114.07	boreal forest	[120]
861	64.00	99.00	-10.20	405.00	114.29	boreal forest	[120]
862	62.30	88.00	-4.00	556.00	115.85	boreal forest	[120]
863	66.00	90.00	-8.70	522.00	116.97	boreal forest	[120]
864	66.00	53.00	-2.30	498.00	117.08	boreal forest	[120]
865	59.00	91.00	-2.00	521.00	118.88	boreal forest	[120]

866	61.50	45.00	1.30	593.00	119.64	boreal forest	[120]
867	63.30	42.00	1.30	582.00	120.40	boreal forest	[120]
868	54.00	95.00	-5.00	653.00	121.97	boreal forest	[120]
869	53.19	93.15	-0.40	707.00	122.20	boreal forest	[120]
870	66.50	48.00	-1.90	487.00	123.50	boreal forest	[120]
871	62.28	50.67	0.70	583.00	123.67	boreal forest	[120]
872	57.00	95.00	-0.70	420.00	123.77	boreal forest	[120]
873	57.00	59.00	1.40	620.00	124.25	boreal forest	[120]
874	60.00	91.00	-4.80	579.00	124.54	boreal forest	[120]
875	62.00	33.00	2.40	584.00	125.51	boreal forest	[120]
876	55.99	-98.99	-2.90	461.00	125.87	boreal forest	[119]
877	53.92	-104.68	0.10	454.00	126.30	boreal forest	[119]
878	62.00	102.00	-8.40	384.00	126.30	boreal forest	[120]
879	62.17	40.17	1.70	630.00	126.43	boreal forest	[120]
880	62.00	34.00	2.40	567.00	128.43	boreal forest	[121]
881	66.36	20.00	-0.80	526.00	128.50	boreal forest	[121]
882	66.37	29.25	-0.70	553.00	128.50	boreal forest	[120]
883	60.30	148.00	-8.00	406.00	128.90	boreal forest	[120]
884	62.20	155.27	-12.60	351.00	129.15	boreal forest	[120]
885	66.37	29.33	-0.70	553.00	129.20	boreal forest	[119]
886	60.75	89.41	-2.90	549.00	130.08	boreal forest	[119]
887	57.10	128.00	-9.30	528.00	130.90	boreal forest	[120]
888	64.00	33.00	0.90	572.00	131.47	boreal forest	[120]
889	55.17	126.00	-6.80	561.00	133.50	boreal forest	[120]
890	62.00	50.50	0.70	583.00	135.00	boreal forest	[120]
891	56.33	160.67	-5.70	682.00	135.70	boreal forest	[120]
892	60.30	121.00	-6.70	325.00	136.38	boreal forest	[120]
893	62.50	132.00	-11.90	266.00	136.95	boreal forest	[120]
894	66.00	87.00	-6.70	517.00	137.00	boreal forest	[119]
895	66.37	29.00	-0.70	553.00	137.05	boreal forest	[119]
896	63.67	42.00	1.00	585.00	139.23	boreal forest	[120]

897	63.00	129.00	-10.90	263.00	139.60	boreal forest	[120]
898	55.00	58.00	1.80	536.00	140.07	boreal forest	[120]
899	58.00	59.00	0.70	667.00	140.10	boreal forest	[120]
900	62.00	92.00	-5.60	558.00	140.51	boreal forest	[120]
901	56.00	160.00	-4.80	670.00	140.80	boreal forest	[120]
902	59.00	61.00	0.80	532.00	141.12	boreal forest	[120]
903	61.10	73.00	-2.50	533.00	141.20	boreal forest	[120]
904	59.50	13.00	4.80	680.00	143.40	boreal forest	[120]
905	49.20	110.00	-4.30	376.00	143.75	boreal forest	[120]
906	62.16	14.83	1.60	601.00	144.00	boreal forest	[121]
907	59.40	30.25	4.80	639.00	145.78	boreal forest	[120]
908	57.00	96.00	-1.40	418.00	147.00	boreal forest	[120]
909	54.16	-101.26	-0.70	450.00	149.95	boreal forest	[119]
910	62.00	89.00	-3.90	554.00	150.50	boreal forest	[120]
911	55.90	-98.47	-3.10	480.00	151.00	boreal forest	[119]
912	61.00	88.00	-3.20	553.00	154.54	boreal forest	[120]
913	59.00	34.00	3.30	726.00	154.83	boreal forest	[120]
914	62.00	51.00	0.50	584.00	154.90	boreal forest	[120]
915	53.99	-104.99	0.10	454.00	155.77	boreal forest	[119]
916	60.50	148.00	-10.50	390.00	155.83	boreal forest	[120]
917	58.10	39.00	3.60	608.00	157.09	boreal forest	[120]
918	55.50	59.50	1.20	569.00	157.18	boreal forest	[120]
919	47.85	-68.33	2.10	1103.00	159.14	boreal forest	[121]
920	56.00	105.00	-5.30	388.00	159.76	boreal forest	[120]
921	56.67	48.17	3.50	577.00	167.54	boreal forest	[120]
922	59.67	62.50	0.30	511.00	168.20	boreal forest	[120]
923	60.30	56.00	0.80	677.00	168.37	boreal forest	[120]
924	64.67	47.50	-0.90	581.00	169.55	boreal forest	[119]
925	59.50	44.00	2.30	622.00	171.09	boreal forest	[120]
926	60.00	90.00	-2.60	549.00	172.76	boreal forest	[120]
927	57.00	60.50	2.00	529.00	174.70	boreal forest	[120]

928	59.67	31.00	4.60	619.00	176.38	boreal forest	[120]
929	51.00	-82.00	-0.80	649.00	176.90	boreal forest	[119]
930	56.50	47.00	4.00	565.00	178.40	boreal forest	[120]
931	56.75	45.00	4.10	583.00	178.86	boreal forest	[120]
932	57.00	93.00	-0.20	470.00	181.86	boreal forest	[120]
933	57.17	97.83	-1.70	402.00	185.55	boreal forest	[120]

MAT, Mean Annual Temperature; MAP, Mean Annual Precipitation