

Ecography

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Supplementary material

Appendix 1. List of China's major mountain ranges. See Figure 1 for a map.

No.	Name	Province	No.	Name	Province	No.	Name	Province
1	Mt. Daxing'an	Heilongjiang	23	Mt. Kunlun	Xinjiang, Tibet	45	Mt. Qionglai	Sichuan
2	Mt. Xiaoxing'an	Heilongjiang	24	Mt. A'nimaqing	Qinghai	46	Mt. Wulian	Yunnan
3	Mt. Changbai	Jilin	25	Mt. Kekexili	Qinghai, Tibet	47	Mt. Wumeng	Guizhou, Yunnan
4	Mt. Zhangguangchai	Jilin	26	Mt. Bayankala	Qinghai	48	Mt. Ailao	Yunnan
5	Mt. Longgang	Liaoning	27	Mt. Min	Gansu, Sichuan	49	Mt. Wuliang	Yunnan
6	Mt. Yin	Inner Mongolia, Hebei	28	Mt. Qinling	Gansu, Shaanxi, Sichuan, Henan	50	Mt. Wuling	Hunan
7	Mt. Yan	Hebei	29	Mt. Funiu	Henan	51	Mt. Xuefeng	Hunan
8	Mt. Daqing	Inner Mongolia	30	Mt. Daba	Sichuan, Shaanxi	52	Mt. Dalou	Guizhou
9	Mt. Altai	Xinjiang	31	Mt. Wudang	Hubei	53	Mt. Mufu	Hunan
10	Mt. Poluokenu	Xinjiang	32	Mt. Dabie	Anhui, Hubei	54	Mt. Jiuling	Jiangxi
11	Mt. Tianshan (South)	Xinjiang	33	Mt. Kalakunlun	Tibet	55	Mt. Luoxiao	Hunan, Jiangxi
12	Mt. Tianshan	Xinjiang	34	Mt. Tanggula	Tibet	56	Mt. Daiyun	Fujian
13	Mt. Bogeda	Xinjiang	35	Mt. Gangdisi	Tibet	57	Mt. Xianxia	Zhejiang
14	Mt. Taihang	Shanxi, Hebei	36	Mt. Nianqingtanggula	Tibet	58	Mt. Tianmu	Zhejiang
15	Mt. Lvliang	Shanxi	37	Mt. Himalayas	Tibet	59	Mt. Yandang	Zhejiang
16	Mt. Zhongtiao	Shanxi	38	Mt. Boshula	Tibet	60	Mt. Wuyi	Fujian
17	Mt. Helan	Ningxia	39	Mt. Gaoligong	Tibet, Yunnan	61	Mt. Nanling	Hunan, Jiangxi, Guangdong

18	Mt. Liupan	Ningxia, Gansu	40	Mt. Taniantaweng	Tibet	62	Mt. Dayao	Guangxi
19	Mt. A'erjin	Xinjiang	41	Mt. Nu	Tibet, Yunnan	63	Mt. Yunwu	Guangdong
20	Mt. Qilian	Qinghai, Gansu	42	Mt. Yun	Yunnan	64	Mt. Yushan	Taiwan
21	Mt. South	Qinghai	43	Mt. Shaluli	Sichuan	65	Mt. Wuzhi	Hainan
22	Mt. Laji	Qinghai	44	Mt. Daxue	Sichuan			

Appendix 2. Locations and statistics of the mountains sampled in the PKU-PSD project in the last two decades. Mountains are grouped into different climatic zones.

No.	Mountain	Province	Latitude (° N)	Longitude (° E)	Peak elevation (m)	Elevation investigated (m)	No. of plots	Major vegetation type
Cool-Temperate Zone								
1	Mt. Baikalu	Heilongjiang	51.7	123.1	1460	701-1,114	10	<i>Picea</i> and <i>Larix</i> forest
2	Genhe, Mt. Daxing'an	Neimenggu	50.9	121.5	1142	815-839	6	<i>Larix</i> forest
3	Mt. Altai	Xinjiang	47.8	88.7	4374	970-2,538	53	<i>Picea</i> and <i>Larix</i> forest
Temperate Zone								
4	Liangshui, Mt. Daxin'an	Heilongjiang	47.2	128.9	707	344-466	13	<i>Pinus</i> and broadleaved forest
5	Mt. Mao'er	Heilongjiang	45.3	128.0	805	351420	6	<i>Quercus</i> forest
6	Mt. Datudingzi	Jilin	44.4	128.2	1669	970-1,524	8	<i>Abies</i> forest
7	Mt. Changbai	Jilin	42.2	128.1	2691	530-1,945	65	<i>Pinus</i> and broadleaved forest, <i>Abies</i> forest, <i>Betula</i> forest
8	Mt. Laotudingzi	Liaoning	41.3	124.9	1376	534-1,220	15	<i>Quercus</i> forest, <i>Abies</i> forest, <i>Betula</i> forest
Warm-Temperate Zone								
9	Mt. Labagoumen	Beijing	41.0	116.5	1935	876-1,695	20	<i>Quercus</i> forest
10	Mt. Wuling	Hebei	40.6	117.5	2116	1,070-2,095	33	<i>Quercus</i> forest, <i>Larix</i> forest
11	Mt. Song	Beijing	40.5	115.8	2199	592-1,468	14	<i>Quercus</i> forest
12	Mt. Bailongtan	Beijing	40.5	117.1	943	278-318	9	<i>Quercus</i> forest
13	Mt. Xiaowutai	Hebei	39.9	115.0	2882	1,250-2,850	42	<i>Betula</i> forest, <i>Larix</i> forest
14	Mt. Lvliang	Shaanxi	37.8	111.5	2818	1,491-2,676	24	<i>Quercus</i> forest, <i>Picea</i> and <i>Larix</i> forest
15	Mt. Zhongtiao	Henan	35.3	112.1	1995	960-1,680	16	<i>Quercus</i> forest
16	Mt. Taibai	Shaanxi	34.0	107.7	3767	1,200-3,650	167	<i>Quercus</i> forest, <i>Betula</i> forest, <i>Abies</i> forest, <i>Larix</i> forest
17	Mt. Niubeiliang	Shaanxi	33.9	109.0	2802	1,430-2,800	51	<i>Quercus</i> forest, <i>Betula</i> forest, <i>Abies</i> forest

18	Mt. Xiaolong	Gansu	33.7	106.3	2446	700-2,440	54	<i>Quercus</i> forest, <i>Betula</i> forest, <i>Abies</i> forest
19	Mt. Funiu	Shanxi	33.5	111.9	1845	1,087-1,824	19	<i>Quercus</i> forest
20	Mt. Jigong	Henan	31.8	114.1	814	202-700	13	<i>Quercus</i> forest

Subtropic Zone

21	Mt. Motianling	Sichuan	32.8	104.9	3543	670-3,400	45	Evergreen broadleaved forest, <i>Abies</i> forest
22	Mt. Guangwu	Sichuan	32.6	106.9	2500	1430-1980	12	<i>Fagus</i> forest
23	Mt. Micang	Sichuan	32.6	106.8	2507	700-2,500	37	Evergreen broadleaved forest
24	Mt. Shennongjia	Hubei	31.3	110.5	3105	650-3,100	57	Evergreen broadleaved forest, <i>Abies</i> forest
25	Dujiangyan	Sichuan	31.2	103.6	3284	2250-2300	2	<i>Fagus</i> forest
26	Mt. Dabie	Anhui	31.1	116.2	1729	160-1,750	28	Evergreen broadleaved forest
27	Mt. Dalaoling	Hubei	31.1	110.9	2005	1,320-2,000	12	Evergreen broadleaved forest
28	Mt. Xitianmu	Zhejiang	30.3	119.4	1787	610-1,495	10	Evergreen broadleaved forest
29	Mt. Longtang	Zhejiang	30.2	118.9	1787	1000-1050	2	<i>Fagus</i> forest
30	Mt. Guniujiang	Anhui	30.0	117.5	1728	460-1,400	19	Evergreen broadleaved forest
31	Mt. Badagong	Hunan	29.7	109.9	2003	1520-1620	4	<i>Fagus</i> forest
32	Mt. Jinfo	Sichuan	29.1	107.2	2251	650-2,240	51	Evergreen broadleaved forest
33	Mt. Sihai	Zhejiang	28.6	120.7	1197	900-1120	2	<i>Fagus</i> forest
34	Mt. Dalou	Guizhou	28.3	107.0	1751	1380-1400	2	<i>Fagus</i> forest
35	Mt. Fanjin	Guizhou	27.9	108.8	2572	1000-1850	4	<i>Fagus</i> forest
36	Mt. Wuyi	Fujian	27.8	117.7	2158	600-2,150	58	Evergreen broadleaved forest
37	Mt. Donggong	Zhejiang	27.8	119.1	1857	1450-1720	4	<i>Fagus</i> forest
38	Mt. Wuyanling	Zhejiang	27.7	119.7	1611	1100-1380	3	<i>Fagus</i> forest
39	Mt. Bamian	Hunan	26.4	114.0	2042	650-2,060	15	Evergreen broadleaved forest
40	Mt. Leigong	Guizhou	26.4	108.3	2179	1300-1300	1	<i>Fagus</i> forest
41	Mt. Mingzhulao	Hunan	26.3	110.8	1784	1800-1800	2	<i>Fagus</i> forest
42	Mt. Mao'er	Guangxi	25.9	110.5	2142	660-2,107	18	Evergreen broadleaved forest
43	Mt. Dupang	Hunan	25.5	110.4	1856	617-1,856	9	Evergreen broadleaved forest
44	Mt. Yuanbao	Guangxi	25.4	109.1	2101	1650-1650	1	<i>Fagus</i> forest
45	Mt. Mang	Hunan	25.0	112.9	1902	610-1,895	20	Evergreen broadleaved forest

46	Mt. Dinghu	Guangdong	23.2	112.5	1000	230-230	17	Evergreen broadleaved forest
Tropic Zone								
47	Xishuangbanna	Yunan	21.8	101.3	1250	660-1,250	17	Tropical forest
48	Mt. Jianfeng	Hainan	18.6	108.8	1412	790-790	25	Tropical forest
Tibetan and Hengduan Mountains								
49	Mt. Gongga	Sichuan	29.6	102.0	7556	1,200-4,500	67	Subtropical montane forest
50	Mt. Nanjiabawa	Tibet	29.3	95.4	7782	750-4,650	60	Subtropical montane forest
51	Mt. Pushila	Tibet	28.1	86.7	5425	5,176-5,390	13	Alpine sparse vegetation
52	Mt. GaoliGong	Yunan	27.8	98.5	3374	2,025-3,630	17	Subtropical montane forest
53	Mt. Yulong	Yunan	27.1	100.2	5596	2,722-4,190	18	Subtropical montane forest
54	Mt. Xiaohei	Yunan	24.8	98.8	3002	881-2,370	14	Subtropical montane forest, shrub
55	Mt. Wuliang	Yunan	24.5	100.7	3306	1,389-2,800	16	Subtropical montane forest
56	Mt. Ailao	Yunan	24.3	101.2	3166	1,830-2,520	26	Subtropical montane forest
57	Mt. Bozhu	Yunan	23.4	103.9	2409	2,312-2,997	11	Subtropical montane forest
Northwest arid zone								
58	Yili	Xinjiang	44.2	81.6		1,110-1,544	70	Wild fruit forest
59	Nouth slope, Mt. Middle Tianshan	Xinjiang	43.9	88.1	5445	1,730-2,695	28	<i>Picea</i> forest
60	Mt. Eastern Tianshan	Xinjiang	43.3	93.7	4348	2,210-2,805	7	<i>Picea</i> and <i>Larix</i> forest
61	Mt. Western Tianshan	Xinjiang	43.1	82.9	4257	2,050-2,520	5	<i>Picea</i> forest
62	South slope, Mt. Middle Tianshan	Xinjiang	42.2	82.2	7435	2,280-3,026	19	<i>Picea</i> forest
63	Mt. Kunlun	Xinjiang	37.8	76.1	7719	2,773-3,418	30	<i>Picea</i> forest, <i>Sabina</i> forest
64	Mt. Helan	Ningxia	38.8	105.9	3554	1,236-3,402	29	<i>Picea</i> forest, <i>Pinus</i> and <i>Juniperus</i> forest, Shrub
65	Mt. Qilian	Gansu	38.4	99.9	5547	2,856-3,355	8	<i>Picea</i> forest