

魏博, 刘林山, 谷昌军, 于海彬, 张懿铨, 张炳华, 崔伯豪, 宫殿清, 土艳丽 (2022) 紫茎泽兰在中国的气候生态位稳定且其分布范围仍有进一步扩展的趋势. 生物多样性, 30, 21443. <https://www.biodiversity-science.net/CN/10.17520/biods.2021443>.

附录1 紫茎泽兰在我国分布点的经纬度及其来源

Appendix 1 Longitude, latitude and reference of the distribution points of *Ageratina adenophora* in China

序号 No.	经度 Longitude	纬度 Latitude	记录时间 Record time	来源 Reference
1	102.76° E	24.11° N	1971	通海县畜牧兽医站等, 1976
2	102.54° E	24.33° N	1971	通海县畜牧兽医站等, 1976
3	103.70° E	22.99° N	1971	通海县畜牧兽医站等, 1976
4	102.81° E	23.66° N	1971	通海县畜牧兽医站等, 1976
5	102.48° E	23.70° N	1971	通海县畜牧兽医站等, 1976
6	103.23° E	23.74° N	1971	通海县畜牧兽医站等, 1976
7	103.78° E	24.55° N	1971	通海县畜牧兽医站等, 1976
8	101.81° E	27.29° N	1978	陈艳, 2003
9	101.65° E	24.69° N	1979	薛纪如等, 1979
10	104.01° E	23.20° N	1979	薛纪如等, 1979
11	99.95° E	24.77° N	1979	薛纪如等, 1979
12	99.95° E	24.77° N	1979	薛纪如等, 1979
13	102.01° E	24.09° N	1979	薛纪如等, 1979
14	102.82° E	25.08° N	1983	印嘉祐, 1983
15	102.24° E	28.32° N	1983	熊智和谢开立, 1987
16	103.13° E	24.01° N	1983	熊智和谢开立, 1987
17	104.73° E	24.75° N	1983	熊智和谢开立, 1987
18	104.37° E	25.34° N	1983	熊智和谢开立, 1987
19	104.89° E	24.94° N	1983	熊智和谢开立, 1987
20	101.76° E	23.07° N	1983	熊智和谢开立, 1987
21	102.41° E	23.00° N	1983	熊智和谢开立, 1987
22	104.97° E	25.14° N	1983	熊智和谢开立, 1987
23	105.45° E	25.09° N	1983	熊智和谢开立, 1987
24	106.11° E	25.19° N	1983	熊智和谢开立, 1987
25	104.68° E	25.67° N	1983	熊智和谢开立, 1987
26	105.23° E	25.82° N	1983	熊智和谢开立, 1987
27	104.98° E	25.78° N	1983	熊智和谢开立, 1987
28	105.6° E	25.97° N	1983	熊智和谢开立, 1987
29	105.78° E	26.07° N	1983	熊智和谢开立, 1987
30	104.63° E	25.78° N	1983	熊智和谢开立, 1987
31	105.46° E	26.21° N	1983	熊智和谢开立, 1987
32	106.75° E	25.42° N	1983	熊智和谢开立, 1987
33	104.21° E	24.08° N	1984	吴仁润等, 1984
34	104.23° E	23.44° N	1984	吴仁润等, 1984
35	101.71° E	23.45° N	1984	吴仁润等, 1984
36	100.53° E	25.07° N	1984	吴仁润等, 1984
37	100.52° E	25.35° N	1984	吴仁润等, 1984
38	102.21° E	27.41° N	1985	陈艳, 2003
39	99.98° E	23.46° N	1987	熊智和谢开立, 1987
40	98.71° E	24.58° N	1987	熊智和谢开立, 1987
41	102.29° E	27.81° N	1990	植保技术与推广编辑部, 2003
42	99.28° E	24.03° N	1992	云南林业, 1992
43	101.86° E	26.70° N	1997	周裕和谢永良, 1999
44	102.09° E	26.90° N	1997	周裕和谢永良, 1999
45	102.28° E	27.91° N	1997	周裕和谢永良, 1999

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46	102.21° E	26.66° N	1997	周俗和谢永良, 1999
47	102.59° E	26.65° N	1997	周俗和谢永良, 1999
48	102.77° E	27.08° N	1997	周俗和谢永良, 1999
49	101.52° E	27.42° N	1997	周俗和谢永良, 1999
50	102.2° E	27.42° N	1997	周俗和谢永良, 1999
51	102.52° E	27.39° N	1997	周俗和谢永良, 1999
52	102.43° E	28.31° N	1997	周俗和谢永良, 1999
53	102.2° E	28.56° N	1997	周俗和谢永良, 1999
54	102.82° E	28.02° N	1997	周俗和谢永良, 1999
55	102.82° E	27.72° N	1997	周俗和谢永良, 1999
56	103.15° E	28.34° N	1997	周俗和谢永良, 1999
57	103.23° E	27.70° N	1997	周俗和谢永良, 1999
58	106.37° E	23.75° N	1998	韦修平, 1998
59	106.37° E	23.80° N	1998	韦修平, 1998
60	105.34° E	24.79° N	1998	韦修平, 1998
61	105.08° E	24.51° N	1998	韦修平, 1998
62	106.21° E	24.31° N	1998	韦修平, 1998
63	105.78° E	26.08° N	2002	夏忠敏, 2002
64	111.02° E	30.83° N	2003	朱超凡, 2003
65	104.41° E	28.08° N	2003	易建平等, 2003
66	103.96° E	29.22° N	2003	易建平等, 2003
67	103.91° E	29.26° N	2003	易建平等, 2003
68	104.14° E	29.17° N	2003	易建平等, 2003
69	101.59° E	21.46° N	2003–2004	卢志军和马克平, 2004
70	103.97° E	22.53° N	2003–2004	卢志军和马克平, 2004
71	106.44° E	23.14° N	2003–2004	卢志军和马克平, 2004
72	99.28° E	23.15° N	2003–2004	卢志军和马克平, 2004
73	99.59° E	22.63° N	2003–2004	卢志军和马克平, 2004
74	98.71° E	24.57° N	2003–2004	卢志军和马克平, 2004
75	102.04° E	23.60° N	2003–2004	卢志军和马克平, 2004
76	103.3° E	23.72° N	2003–2004	卢志军和马克平, 2004
77	98.72° E	27.75° N	2003–2004	卢志军和马克平, 2004
78	101.53° E	27.40° N	2003–2004	卢志军和马克平, 2004
79	102.32° E	27.89° N	2003–2004	卢志军和马克平, 2004
80	102.2° E	28.56° N	2003–2004	卢志军和马克平, 2004
81	102.75° E	29.33° N	2003–2004	卢志军和马克平, 2004
82	106.12° E	25.16° N	2003–2004	卢志军和马克平, 2004
83	102.35° E	29.25° N	2004	周俗等, 2004
84	102.62° E	29.37° N	2004	周俗等, 2004
85	103.88° E	28.96° N	2004	周俗等, 2004
86	105.12° E	24.49° N	2004	李雄立, 2004
87	105.34° E	24.79° N	2004	李雄立, 2004
88	106.24° E	24.31° N	2004	李雄立, 2004
89	105.82° E	23.40° N	2004	李雄立, 2004
90	106.55° E	24.78° N	2004	李雄立, 2004
91	106.53° E	24.35° N	2004	李雄立, 2004
92	106.66° E	23.9° N	2004	李雄立, 2004
93	102.63° E	25.07° N	2006	刘志磊等, 2006

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94	102.66° E	25.18° N	2006	刘志磊等, 2006
95	102.87° E	24.73° N	2006	刘志磊等, 2006
96	104.95° E	23.77° N	2006	桂富荣等, 2006
97	98.09° E	25.10° N	2006	桂富荣等, 2006
98	100.69° E	23.00° N	2006	桂富荣等, 2006
99	101.84° E	25.15° N	2006	桂富荣等, 2006
100	100.44° E	21.96° N	2006	桂富荣等, 2006
101	102.66° E	25.05° N	2006	桂富荣等, 2006
102	100.64° E	21.94° N	2006	桂富荣等, 2006
103	99.95° E	24.95° N	2006	桂富荣等, 2006
104	99.06° E	23.24° N	2006	桂富荣等, 2006
105	101.32° E	25.13° N	2006	桂富荣等, 2006
106	101.96° E	27.72° N	2006	桂富荣等, 2006
107	102.01° E	26.50° N	2006	桂富荣等, 2006
108	102.35° E	27.89° N	2006	桂富荣等, 2006
109	101.85° E	26.55° N	2006	桂富荣等, 2006
110	102.52° E	27.44° N	2006	桂富荣等, 2006
111	104.99° E	28.84° N	2006	桂富荣等, 2006
112	102.75° E	27.07° N	2006	桂富荣等, 2006
113	102.17° E	27.68° N	2006	桂富荣等, 2006
114	104.88° E	25.09° N	2006	桂富荣等, 2006
115	106.09° E	25.18° N	2006	桂富荣等, 2006
116	106.42° E	25.19° N	2006	桂富荣等, 2006
117	105.23° E	25.84° N	2006	桂富荣等, 2006
118	106.62° E	25.32° N	2006	桂富荣等, 2006
119	106.67° E	26.41° N	2006	桂富荣等, 2006
120	105.18° E	26.65° N	2006	桂富荣等, 2006
121	105.89° E	26.21° N	2006	桂富荣等, 2006
122	106.84° E	23.72° N	2006	桂富荣等, 2006
123	107.03° E	23.62° N	2006	桂富荣等, 2006
124	103.06° E	22.94° N	2006	桂富荣等, 2006
125	106.6° E	23.97° N	2006	桂富荣等, 2006
126	106.43° E	29.84° N	2006	桂富荣等, 2006
127	106.76° E	29.51° N	2006	桂富荣等, 2006
128	101.54° E	28.99° N	2007	马正清等, 2007
129	105.61° E	25.20° N	2007	黄吉勇等, 2007
130	105.94° E	24.98° N	2007	黄吉勇等, 2007
131	106.19° E	25.31° N	2007	黄吉勇等, 2007
132	105.24° E	25.54° N	2007	黄吉勇等, 2007
133	105.88° E	25.41° N	2007	黄吉勇等, 2007
134	104.99° E	25.87° N	2007	黄吉勇等, 2007
135	105.32° E	25.87° N	2007	黄吉勇等, 2007
136	104.95° E	26.66° N	2007	黄吉勇等, 2007
137	104.83° E	26.60° N	2007	黄吉勇等, 2007
138	105.69° E	25.96° N	2007	黄吉勇等, 2007
139	106.11° E	25.81° N	2007	黄吉勇等, 2007
140	105.74° E	26.09° N	2007	黄吉勇等, 2007
141	105.75° E	26.36° N	2007	黄吉勇等, 2007

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142	106.26° E	26.48° N	2007	黄吉勇等, 2007
143	106.84° E	25.41° N	2007	黄吉勇等, 2007
144	106.49° E	26.05° N	2007	黄吉勇等, 2007
145	106.69° E	26.24° N	2007	黄吉勇等, 2007
146	107.35° E	25.79° N	2007	黄吉勇等, 2007
147	106.03° E	27.07° N	2007	黄吉勇等, 2007
148	105.66° E	27.15° N	2007	黄吉勇等, 2007
149	104.25° E	26.88° N	2007	黄吉勇等, 2007
150	104.71° E	27.18° N	2007	黄吉勇等, 2007
151	105.44° E	26.86° N	2007	黄吉勇等, 2007
152	105.75° E	26.68° N	2007	黄吉勇等, 2007
153	106.21° E	27.53° N	2007	黄吉勇等, 2007
154	101.25° E	21.94° N	2007	周蒙, 2009
155	101.02° E	22.36° N	2007	周蒙, 2009
156	99.90° E	26.56° N	2007	周蒙, 2009
157	103.51° E	29.68° N	2008	谢吉先等, 2008
158	104.85° E	25.48° N	2008	谢吉先等, 2008
159	104.83° E	31.10° N	2008	谢吉先等, 2008
160	103.53° E	29.51° N	2008	谢吉先等, 2008
161	103.55° E	29.50° N	2008	谢吉先等, 2008
162	103.31° E	29.36° N	2008	谢吉先等, 2008
163	103.32° E	29.40° N	2008	谢吉先等, 2008
164	103.44° E	29.49° N	2008	谢吉先等, 2008
165	106.76° E	25.49° N	2008	欧国腾等, 2009
166	112.89° E	27.04° N	2008	欧国腾等, 2009
167	106.62° E	25.68° N	2008	欧国腾等, 2009
168	106.65° E	26.12° N	2008	欧国腾等, 2009
169	106.59° E	25.74° N	2008	欧国腾等, 2009
170	106.58° E	25.84° N	2008	欧国腾等, 2009
171	104.34° E	28.82° N	2008	郭宗锋等, 2008
172	104.52° E	28.15° N	2008	郭宗锋等, 2008
173	104.54° E	28.44° N	2008	郭宗锋等, 2008
174	105.74° E	26.93° N	2008	陈吉斌等, 2008
175	101.56° E	22.39° N	2009	周蒙, 2009 ^①
176	100.41° E	25.46° N	2009	周蒙, 2009
177	100.96° E	22.38° N	2009	周蒙, 2009
178	102.61° E	24.98° N	2009	周蒙, 2009
179	99.99° E	26.34° N	2009	周蒙, 2009
180	100.23° E	26.88° N	2009	周蒙, 2009
181	102.61° E	24.98° N	2009	周蒙, 2009
182	100.41° E	25.46° N	2009	周蒙, 2009
183	99.99° E	26.34° N	2009	周蒙, 2009
184	100.23° E	26.88° N	2009	周蒙, 2009
185	102.78° E	27.07° N	2000–2010	华劲松, 2012
186	101.3° E	27.95° N	2000–2010	华劲松, 2012
187	102.2° E	28.56° N	2000–2010	华劲松, 2012

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188	102.42° E	28.32° N	2000–2010	华劲松, 2012
189	102.53° E	28.65° N	2000–2010	华劲松, 2012
190	102.78° E	28.97° N	2000–2010	华劲松, 2012
191	102.85° E	28.03° N	2000–2010	华劲松, 2012
192	103.15° E	28.34° N	2000–2010	华劲松, 2012
193	103.56° E	28.28° N	2000–2010	华劲松, 2012
194	106.28° E	24.29° N	2011	贾桂康和薛跃规, 2011
195	105.11° E	24.50° N	2011	贾桂康和薛跃规, 2011
196	105.35° E	24.79° N	2011	贾桂康和薛跃规, 2011
197	107.39° E	24.50° N	2011	贾桂康和薛跃规, 2011
198	107.19° E	25.00° N	2011	贾桂康和薛跃规, 2011
199	107.61° E	23.34° N	2011	贾桂康和薛跃规, 2011
200	106.63° E	23.31° N	2011	贾桂康和薛跃规, 2011
201	106.44° E	23.13° N	2011	贾桂康和薛跃规, 2011
202	106.43° E	24.54° N	2013	中国国家标本资源共享平台
203	105.75° E	23.46° N	2013	中国国家标本资源共享平台
204	106.17° E	24.27° N	2013	中国国家标本资源共享平台
205	106.17° E	25.58° N	2013	刘安庆等, 2013
206	105.69° E	26.44° N	2014	中国国家标本资源共享平台
207	105.44° E	25.09° N	2014	中国国家标本资源共享平台
208	106.65° E	26.12° N	2014	中国国家标本资源共享平台
209	106.68° E	26.44° N	2014	中国国家标本资源共享平台
210	104.83° E	25.79° N	2014	中国国家标本资源共享平台
211	101.86° E	27.66° N	2014	中国国家标本资源共享平台
212	103.49° E	28.73° N	2014	中国国家标本资源共享平台
213	102.44° E	27.86° N	2014	中国国家标本资源共享平台
214	105.26° E	24.79° N	2014	中国国家标本资源共享平台
215	106.91° E	29.68° N	2015	中国国家标本资源共享平台
216	102.79° E	25.09° N	2015	中国国家标本资源共享平台
217	99.15° E	25.15° N	2015	汪建云等, 2015
218	102.51° E	26.53° N	2015	刘海, 2020
219	102.37° E	26.58° N	2015	刘海, 2020
220	102.14° E	26.53° N	2015	刘海, 2020
221	102.14° E	26.52° N	2015	刘海, 2020
222	102.28° E	26.70° N	2015	刘海, 2020
223	102.23° E	26.59° N	2015	刘海, 2020
224	102.23° E	26.59° N	2015	刘海, 2020
225	102.22° E	27.39° N	2015	刘海, 2020
226	102.2° E	27.51° N	2015	刘海, 2020
227	102.44° E	27.62° N	2015	刘海, 2020
228	102.33° E	27.76° N	2015	刘海, 2020
229	102.77° E	27.06° N	2015	刘海, 2020
230	102.73° E	27.08° N	2015	刘海, 2020
231	102.76° E	27.04° N	2015	刘海, 2020
232	102.32° E	27.80° N	2015	刘海, 2020
233	102.2° E	27.94° N	2015	刘海, 2020
234	102.19° E	27.98° N	2015	刘海, 2020
235	102.18° E	28.09° N	2015	刘海, 2020

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236	102.77° E	27.06° N	2015	刘海, 2020
237	102.18° E	28.28° N	2015	刘海, 2020
238	102.51° E	26.53° N	2015	刘海, 2020
239	102.23° E	26.69° N	2015	刘海, 2020
240	102.23° E	26.69° N	2015	刘海, 2020
241	102.28° E	26.88° N	2015	刘海, 2020
242	102.18° E	27.46° N	2015	刘海, 2020
243	102.20° E	27.43° N	2015	刘海, 2020
244	102.34° E	27.30° N	2015	刘海, 2020
245	102.19° E	27.66° N	2015	刘海, 2020
246	102.24° E	27.73° N	2015	刘海, 2020
247	102.73° E	27.08° N	2015	刘海, 2020
248	102.19° E	28.00° N	2015	刘海, 2020
249	102.18° E	28.54° N	2015	刘海, 2020
250	102.28° E	26.83° N	2015	刘海, 2020
251	102.19° E	27.44° N	2015	刘海, 2020
252	102.29° E	27.20° N	2015	刘海, 2020
253	102.73° E	27.08° N	2015	刘海, 2020
254	102.26° E	27.01° N	2015	刘海, 2020
255	102.17° E	28.17° N	2015	刘海, 2020
256	102.18° E	28.42° N	2015	刘海, 2020
257	102.18° E	27.46° N	2015	刘海, 2020
258	102.19° E	28.55° N	2015	刘海, 2020
259	105.05° E	24.97° N	2016	中国国家标本资源共享平台
260	106.17° E	26.20° N	2017	中国国家标本资源共享平台
261	106.17° E	25.58° N	2017	杨林秀等, 2017
262	99.03° E	26.80° N	2017	杨林秀等, 2017
263	101.32° E	24.22° N	2017	杨林秀等, 2017
264	99.01° E	24.59° N	2017	杨林秀等, 2017
265	85.96° E	27.97° N	2017	土艳丽等, 2018
266	85.98° E	27.99° N	2017	土艳丽等, 2018
267	85.38° E	28.28° N	2017	土艳丽等, 2018
268	85.33° E	28.40° N	2017	土艳丽等, 2018
269	102.61° E	24.79° N	2017	宋紫玲等, 2019
270	102.83° E	24.55° N	2017	蒋智林等, 2017
271	102.55° E	24.88° N	2018	宋紫玲, 2019 ^②
272	102.55° E	24.84° N	2018	宋紫玲, 2019
273	102.56° E	24.83° N	2018	宋紫玲, 2019
274	102.6° E	24.84° N	2018	宋紫玲, 2019
275	102.57° E	24.83° N	2018	宋紫玲, 2019
276	102.59° E	24.84° N	2018	宋紫玲, 2019
277	102.62° E	24.84° N	2018	宋紫玲, 2019
278	105.05° E	26.40° N	2018	陈婷敬等, 2020
279	104.21° E	29.41° N	2018	陈婷敬等, 2020
280	104.74° E	29.86° N	2018	陈婷敬等, 2020
281	105.05° E	26.59° N	2018	陈婷敬等, 2020

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序号 No.	经度 Longitude	纬度 Latitude	记录时间 Record time	来源 Reference
282	105.13° E	26.48° N	2018	陈婷敬等, 2020
283	104.76° E	26.30° N	2018	陈婷敬等, 2020
284	104.99° E	26.27° N	2018	陈婷敬等, 2020
285	105.91° E	26.46° N	2018	陈婷敬等, 2020
286	105.03° E	26.40° N	2018	陈婷敬等, 2020
287	105.29° E	25.77° N	2018	陈婷敬等, 2020
288	104.96° E	26.86° N	2018	陈婷敬等, 2020
289	104.97° E	26.53° N	2018	陈婷敬等, 2020
290	104.76° E	26.16° N	2018	陈婷敬等, 2020
291	104.99° E	26.35° N	2018	陈婷敬等, 2020
292	105.14° E	26.42° N	2018	陈婷敬等, 2020
293	105.01° E	26.76° N	2018	陈婷敬等, 2020
294	105.12° E	26.34° N	2018	陈婷敬等, 2020
295	105.31° E	25.66° N	2018	陈婷敬等, 2020
296	105.02° E	26.75° N	2018	陈婷敬等, 2020
297	104.82° E	26.47° N	2018	陈婷敬等, 2020
298	104.84° E	26.16° N	2018	陈婷敬等, 2020
299	106.79° E	25.68° N	2018	陈婷敬等, 2020
300	104.84° E	26.30° N	2018	陈婷敬等, 2020
301	104.93° E	26.24° N	2018	陈婷敬等, 2020
302	104.74° E	26.18° N	2018	陈婷敬等, 2020
303	104.78° E	26.50° N	2018	陈婷敬等, 2020
304	99.8° E	22.62° N	2018	Fang et al, 2019
305	99.3° E	23.22° N	2018	Fang et al, 2019
306	102.37° E	24.50° N	2018	Fang et al, 2019
307	104.17° E	24.52° N	2018	Fang et al, 2019
308	99.43° E	25.87° N	2018	Fang et al, 2019
309	99.80° E	22.62° N	2018	Fang et al, 2019
310	99.30° E	23.22° N	2018	Fang et al, 2019
311	102.37° E	24.50° N	2018	Fang et al, 2019
312	104.17° E	24.52° N	2018	Fang et al, 2019
313	99.43° E	25.87° N	2018	Fang et al, 2019
314	102.62° E	24.98° N	2019	杨志平, 2019 ^③
315	102.28° E	24.12° N	2019	杨志平, 2019
316	101.78° E	23.58° N	2019	杨志平, 2019
317	101.18° E	25.22° N	2019	杨志平, 2019
318	100.30° E	24.87° N	2019	杨志平, 2019
319	100.47° E	25.10° N	2019	杨志平, 2019
320	101.08° E	23.02° N	2019	杨志平, 2019
321	100.81° E	22.75° N	2019	杨志平, 2019
322	100.03° E	22.62° N	2019	杨志平, 2019
323	99.80° E	22.77° N	2019	杨志平, 2019
324	99.76° E	22.62° N	2019	杨志平, 2019
325	99.37° E	23.22° N	2019	杨志平, 2019
326	99.43° E	23.55° N	2019	杨志平, 2019
327	100.03° E	24.28° N	2019	杨志平, 2019

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序号 No.	经度 Longitude	纬度 Latitude	记录时间 Record time	来源 Reference
328	100.01° E	22.61° N	2019	杨艳梅等, 2020
329	102.68° E	29.42° N	2019	王勤等, 2020
330	102.18° E	28.55° N	2019	王勤等, 2020
331	101.87° E	26.20° N	2019	王勤等, 2020
332	102.80° E	24.82° N	2021	Xu et al, 2021
333	102.62° E	24.97° N	2021	Xu et al, 2021
334	102.35° E	24.15° N	2021	Xu et al, 2021
335	101.15° E	25.23° N	2021	Xu et al, 2021
336	99.73° E	22.77° N	2021	Xu et al, 2021
337	99.42° E	24.90° N	2021	Xu et al, 2021
338	99.28° E	23.23° N	2021	Xu et al, 2021

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