

附件 1

朝阳市古生物化石群市级自然保护区面积和范围

调整后的朝阳市古生物化石群市级自然保护区总面积为 89038.04 公顷，其中核心区面积 7219.80 公顷，缓冲区面积 30438.73 公顷，实验区面积 51379.51 公顷。保护区分布在朝阳市的龙城区、朝阳县、建平县、喀喇沁左翼蒙古族自治县、北票市和凌源市 6 个辖区内，地理坐标介于东经 119°10'52.51"~121°9'38.08"，北纬 40°42'47.92"~41°46'48.40"之间。

核心区由 19 个小区组成，共 128 个拐点，坐标详见下表。

序号	东经	北纬	序号	东经	北纬
1	120°0'8.119"	41°14'29.003"	17	120°45'24.510"	41°49'30.075"
2	119°58'30.053"	41°13'33.483"	18	120°45'10.805"	41°49'31.143"
3	119°58'26.091"	41°14'12.397"	19	120°45'8.283"	41°49'34.228"
4	120°0'24.141"	41°15'5.091"	20	120°45'8.873"	41°49'39.898"
5	120°0'16.941"	41°14'55.791"	21	120°45'2.976"	41°49'40.821"
6	120°0'8.119"	41°14'29.003"	22	120°45'2.940"	41°49'40.767"
7	120°47'52.177"	41°50'54.814"	23	120°44'51.815"	41°49'54.380"
8	120°47'34.018"	41°50'29.585"	24	120°47'44.021"	41°51'5.772"
9	120°47'19.864"	41°50'31.745"	25	120°47'52.177"	41°50'54.814"
10	120°47'17.782"	41°50'22.628"	26	119°15'15.923"	41°11'22.539"
11	120°47'6.306"	41°50'18.288"	27	119°16'56.269"	41°11'24.292"
12	120°46'51.218"	41°50'8.376"	28	119°17'9.126"	41°10'55.754"
13	120°46'41.766"	41°50'8.440"	29	119°16'30.447"	41°10'16.675"
14	120°46'40.710"	41°50'18.757"	30	119°16'55.430"	41°9'40.967"
15	120°46'35.661"	41°50'24.682"	31	119°16'46.472"	41°9'28.274"
16	120°46'18.360"	41°49'54.460"	32	119°15'30.243"	41°9'28.905"

33	119°15'15.923"	41°11'22.539"
34	119°15'49.865"	40°44'10.272"
35	119°16'28.435"	40°43'37.117"
36	119°15'27.606"	40°42'58.089"
37	119°14'48.723"	40°43'31.914"
38	119°15'49.865"	40°44'10.272"
39	119°40'7.700"	41°0'19.729"
40	119°40'53.201"	41°0'44.679"
41	119°42'55.356"	40°59'26.557"
42	119°40'7.043"	40°58'54.008"
43	119°40'7.700"	41°0'19.729"
44	119°44'50.134"	41°9'2.399"
45	119°44'26.996"	41°7'44.127"
46	119°43'0.193"	41°8'12.087"
47	119°44'50.134"	41°9'2.399"
48	119°56'48.034"	41°11'39.092"
49	119°57'36.823"	41°11'3.706"
50	119°56'4.195"	41°9'44.777"
51	119°55'12.258"	41°10'18.766"
52	119°56'48.034"	41°11'39.092"
53	119°41'17.946"	41°4'55.436"
54	119°42'11.910"	41°6'39.280"
55	119°42'42.050"	41°6'26.236"
56	119°42'51.488"	41°6'13.223"
57	119°42'51.441"	41°5'44.748"
58	119°42'57.740"	41°5'28.438"
59	119°42'45.293"	41°4'53.171"
60	119°41'17.946"	41°4'55.436"
61	119°53'9.653"	41°18'26.425"
62	119°53'57.235"	41°17'29.733"

63	119°53'0.158"	41°16'44.856"
64	119°52'5.219"	41°17'37.826"
65	119°53'9.653"	41°18'26.425"
66	119°53'52.801"	41°25'13.602"
67	119°55'59.631"	41°25'50.245"
68	119°56'37.418"	41°25'27.689"
69	119°53'41.072"	41°24'28.150"
70	119°53'52.801"	41°25'13.602"
71	119°54'36.476"	41°22'52.844"
72	119°56'11.895"	41°23'45.963"
73	119°56'27.469"	41°23'28.897"
74	119°55'5.561"	41°22'46.094"
75	119°54'42.208"	41°22'46.579"
76	119°54'36.476"	41°22'52.844"
77	120°4'43.546"	41°26'7.657"
78	120°7'1.521"	41°27'9.793"
79	120°7'12.228"	41°26'54.910"
80	120°4'35.238"	41°25'7.753"
81	120°4'6.737"	41°25'7.896"
82	120°4'43.546"	41°26'7.657"
83	120°8'33.982"	41°27'19.575"
84	120°10'52.544"	41°28'3.481"
85	120°11'10.295"	41°27'40.821"
86	120°8'48.416"	41°26'53.561"
87	120°8'33.982"	41°27'19.575"
88	120°8'12.890"	41°33'7.323"
89	120°8'50.057"	41°33'8.921"
90	120°9'46.617"	41°32'39.580"
91	120°8'16.488"	41°32'32.094"
92	120°8'12.890"	41°33'7.323"

93	120°8'56.737"	41°30'51.204"
94	120°10'46.749"	41°32'10.584"
95	120°11'8.982"	41°31'54.472"
96	120°10'35.385"	41°31'33.156"
97	120°10'51.227"	41°31'10.634"
98	120°9'11.467"	41°30'30.903"
99	120°8'56.737"	41°30'51.204"
100	120°58'27.438"	42°13'12.020"
101	120°59'55.099"	42°12'8.221"
102	120°59'19.249"	42°11'2.359"
103	120°57'56.637"	42°12'4.492"
104	120°58'27.438"	42°13'12.020"
105	119°26'53.683"	41°25'13.255"
106	119°27'6.684"	41°25'13.255"
107	119°27'1.683"	41°24'29.254"
108	119°27'25.684"	41°24'32.254"
109	119°27'43.684"	41°24'54.255"
110	119°27'50.685"	41°24'42.255"

111	119°27'30.684"	41°24'19.254"
112	119°26'48.683"	41°24'18.254"
113	119°26'53.683"	41°25'13.255"
114	119°29'20.999"	41°25'11.943"
115	119°29'31.687"	41°25'1.255"
116	119°29'32.687"	41°24'57.255"
117	119°29'21.687"	41°24'58.255"
118	119°29'18.687"	41°25'5.255"
119	119°29'5.788"	41°25'2.389"
120	119°29'7.248"	41°25'5.318"
121	119°29'13.326"	41°25'8.982"
122	119°29'20.726"	41°25'12.000"
123	119°29'20.999"	41°25'11.943"
124	120°42'21.411"	41°42'45.516"
125	120°43'37.988"	41°42'49.002"
126	120°43'40.055"	41°40'44.298"
127	120°42'27.561"	41°40'42.762"
128	120°42'21.411"	41°42'45.516"

缓冲区由 39 个小区组成，共 353 个拐点，坐标详见下表。

序号	东经	北纬
1	119°48'26.540"	40°57'5.410"
2	119°47'33.431"	40°56'5.166"
3	119°46'33.164"	40°56'34.455"
4	119°47'27.419"	40°57'34.234"
5	119°48'26.540"	40°57'5.410"
6	119°58'26.091"	41°14'12.397"
7	119°58'30.053"	41°13'33.483"
8	120°0'8.119"	41°14'29.003"
9	120°0'7.373"	41°14'26.739"

10	119°59'35.036"	41°14'8.657"
11	119°59'40.556"	41°13'56.854"
序号	东经	北纬
12	119°58'21.762"	41°13'13.785"
13	119°58'8.993"	41°14'16.304"
14	120°0'13.870"	41°15'15.808"
15	120°0'24.141"	41°15'5.091"
16	119°58'26.091"	41°14'12.397"
17	120°4'20.691"	41°28'4.057"
18	120°3'40.193"	41°26'54.604"

19	120°3'3.190"	41°26'54.862"
20	120°3'47.653"	41°28'10.005"
21	120°4'20.691"	41°28'4.057"
22	120°32'53.570"	41°16'25.609"
23	120°30'44.536"	41°16'24.567"
24	120°30'48.328"	41°18'3.442"
25	120°32'55.254"	41°18'4.166"
26	120°32'53.570"	41°16'25.609"
27	120°45'8.283"	41°49'34.228"
28	120°45'10.805"	41°49'31.143"
29	120°45'7.985"	41°49'31.362"
30	120°45'8.283"	41°49'34.228"
31	120°48'3.483"	41°51'44.496"
32	120°48'22.934"	41°51'18.751"
33	120°48'5.683"	41°51'13.575"
34	120°47'52.177"	41°50'54.814"
35	120°47'44.021"	41°51'5.772"
36	120°44'51.815"	41°49'54.380"
37	120°45'2.940"	41°49'40.767"
38	120°44'58.970"	41°49'34.956"
39	120°44'58.937"	41°49'34.972"
40	120°44'57.934"	41°49'35.480"
41	120°44'23.698"	41°49'52.800"
42	120°44'19.889"	41°49'54.726"
43	120°44'12.377"	41°49'58.527"
44	120°44'6.305"	41°49'58.708"
45	120°44'4.495"	41°50'0.656"
46	120°48'3.483"	41°51'44.496"
47	119°17'24.291"	41°12'34.522"
48	119°15'56.157"	41°11'32.275"

49	119°17'3.802"	41°11'32.887"
50	119°17'22.201"	41°10'52.119"
51	119°16'44.956"	41°10'16.766"
52	119°17'5.986"	41°9'42.520"
53	119°16'52.953"	41°9'20.139"
54	119°15'22.215"	41°9'21.235"
55	119°15'4.558"	41°11'26.739"
56	119°17'4.671"	41°12'51.124"
57	119°17'24.291"	41°12'34.522"
58	119°15'30.243"	41°9'28.905"
59	119°16'46.472"	41°9'28.274"
60	119°16'55.430"	41°9'40.967"
61	119°16'30.447"	41°10'16.675"
62	119°17'9.126"	41°10'55.754"
63	119°16'56.269"	41°11'24.292"
64	119°15'15.923"	41°11'22.539"
65	119°15'30.243"	41°9'28.905"
66	119°16'30.247"	41°15'44.049"
67	119°16'36.385"	41°14'40.701"
68	119°17'21.302"	41°15'4.851"
69	119°18'35.000"	41°14'14.858"
70	119°18'13.817"	41°14'4.293"
71	119°17'20.716"	41°14'36.215"
72	119°16'25.201"	41°14'21.948"
73	119°16'1.645"	41°16'7.584"
74	119°19'26.520"	41°17'34.940"
75	119°19'42.276"	41°17'17.521"
76	119°17'14.125"	41°15'58.531"
77	119°16'30.247"	41°15'44.049"
78	119°21'11.146"	41°19'24.298"

79	119°19'41.842"	41°19'5.082"
80	119°19'31.758"	41°19'30.328"
81	119°21'3.594"	41°19'48.077"
82	119°21'11.146"	41°19'24.298"
83	119°13'13.954"	40°44'44.917"
84	119°17'10.492"	40°43'59.552"
85	119°15'34.620"	40°42'51.138"
86	119°11'41.362"	40°43'29.187"
87	119°13'13.954"	40°44'44.917"
88	119°14'48.723"	40°43'31.914"
89	119°15'27.606"	40°42'58.089"
90	119°16'28.435"	40°43'37.117"
91	119°15'49.865"	40°44'10.272"
92	119°14'48.723"	40°43'31.914"
93	119°17'3.044"	40°53'19.570"
94	119°14'10.370"	40°48'50.984"
95	119°13'13.541"	40°49'15.544"
96	119°16'23.237"	40°53'34.289"
97	119°17'3.044"	40°53'19.570"
98	119°20'6.202"	40°45'54.320"
99	119°19'26.262"	40°45'52.706"
100	119°18'17.620"	40°47'15.520"
101	119°20'6.613"	40°51'27.861"
102	119°20'44.967"	40°51'52.271"
103	119°21'39.497"	40°51'39.479"
104	119°20'6.202"	40°45'54.320"
105	119°12'32.826"	40°59'17.392"
106	119°11'7.976"	40°59'16.797"
107	119°12'15.137"	41°4'46.698"
108	119°13'22.443"	41°4'44.246"

109	119°12'32.826"	40°59'17.392"
110	119°27'32.169"	40°56'31.648"
111	119°27'11.239"	40°56'17.671"
112	119°26'56.844"	40°56'30.064"
113	119°27'17.775"	40°56'44.043"
114	119°27'32.169"	40°56'31.648"
115	119°30'48.351"	40°55'2.971"
116	119°29'52.859"	40°54'25.696"
117	119°29'27.013"	40°54'47.244"
118	119°30'21.935"	40°55'24.447"
119	119°30'48.351"	40°55'2.971"
120	119°29'58.442"	40°58'0.798"
121	119°28'37.866"	40°57'42.478"
122	119°28'16.429"	40°58'37.979"
123	119°29'37.188"	40°58'56.555"
124	119°29'58.442"	40°58'0.798"
125	119°35'36.852"	40°59'40.042"
126	119°33'40.981"	40°59'8.066"
127	119°33'17.756"	41°0'1.730"
128	119°35'11.178"	41°0'33.378"
129	119°35'36.852"	40°59'40.042"
130	119°41'2.401"	41°1'6.338"
131	119°43'43.146"	40°59'17.625"
132	119°39'46.830"	40°58'32.475"
133	119°39'46.895"	41°0'28.018"
134	119°41'2.401"	41°1'6.338"
135	119°40'7.700"	41°0'19.729"
136	119°40'7.043"	40°58'54.008"
137	119°42'55.356"	40°59'26.557"
138	119°40'53.201"	41°0'44.679"

139	119°40'7.700"	41°0'19.729"
140	119°45'23.942"	41°9'47.349"
141	119°46'30.112"	41°7'47.056"
142	119°44'27.398"	41°7'17.299"
143	119°41'45.691"	41°8'5.398"
144	119°45'23.942"	41°9'47.349"
145	119°43'0.193"	41°8'12.087"
146	119°44'26.996"	41°7'44.127"
147	119°44'50.134"	41°9'2.399"
148	119°43'0.193"	41°8'12.087"
149	119°56'44.240"	41°12'0.767"
150	119°58'9.548"	41°11'4.968"
151	119°55'59.602"	41°9'22.277"
152	119°54'41.848"	41°10'21.034"
153	119°56'44.240"	41°12'0.767"
154	119°55'12.258"	41°10'18.766"
155	119°56'4.195"	41°9'44.777"
156	119°57'36.823"	41°11'3.706"
157	119°56'48.034"	41°11'39.092"
158	119°55'12.258"	41°10'18.766"
159	119°42'12.665"	41°6'43.722"
160	119°42'46.322"	41°6'28.997"
161	119°42'55.078"	41°6'16.924"
162	119°42'54.961"	41°5'46.735"
163	119°43'0.174"	41°5'32.068"
164	119°43'27.932"	41°4'59.978"
165	119°43'15.690"	41°4'24.178"
166	119°40'41.721"	41°4'34.318"
167	119°41'51.564"	41°6'53.000"
168	119°42'12.665"	41°6'43.722"

169	119°41'17.946"	41°4'55.436"
170	119°42'45.293"	41°4'53.171"
171	119°42'57.740"	41°5'28.438"
172	119°42'51.441"	41°5'44.748"
173	119°42'51.488"	41°6'13.223"
174	119°42'42.050"	41°6'26.236"
175	119°42'11.910"	41°6'39.280"
176	119°41'17.946"	41°4'55.436"
177	119°53'14.050"	41°18'50.702"
178	119°54'28.768"	41°17'28.257"
179	119°52'57.310"	41°16'20.799"
180	119°51'34.537"	41°17'38.106"
181	119°53'14.050"	41°18'50.702"
182	119°52'5.219"	41°17'37.826"
183	119°53'0.158"	41°16'44.856"
184	119°53'57.235"	41°17'29.733"
185	119°53'9.653"	41°18'26.425"
186	119°52'5.219"	41°17'37.826"
187	119°50'28.392"	41°20'7.905"
188	119°49'40.749"	41°18'42.827"
189	119°48'13.398"	41°19'1.508"
190	119°48'58.427"	41°20'27.028"
191	119°50'28.392"	41°20'7.905"
192	119°56'2.129"	41°25'59.962"
193	119°56'59.609"	41°25'26.483"
194	119°53'27.984"	41°24'15.025"
195	119°53'43.839"	41°25'19.044"
196	119°56'2.129"	41°25'59.962"
197	119°53'52.801"	41°25'13.602"
198	119°53'41.072"	41°24'28.150"

199	119°56'37.418"	41°25'27.689"
200	119°55'59.631"	41°25'50.245"
201	119°53'52.801"	41°25'13.602"
202	119°56'15.702"	41°23'57.125"
203	119°56'43.177"	41°23'27.607"
204	119°55'15.902"	41°22'40.595"
205	119°54'35.941"	41°22'40.406"
206	119°54'21.740"	41°22'55.939"
207	119°56'15.702"	41°23'57.125"
208	119°54'42.208"	41°22'46.579"
209	119°55'5.561"	41°22'46.094"
210	119°56'27.469"	41°23'28.897"
211	119°56'11.895"	41°23'45.963"
212	119°54'36.476"	41°22'52.844"
213	119°54'42.208"	41°22'46.579"
214	120°7'3.589"	41°27'20.893"
215	120°7'28.006"	41°26'54.110"
216	120°4'42.569"	41°25'0.843"
217	120°3'52.754"	41°25'1.388"
218	120°4'3.134"	41°25'59.606"
219	120°7'3.589"	41°27'20.893"
220	120°4'6.737"	41°25'7.896"
221	120°4'35.238"	41°25'7.753"
222	120°7'12.228"	41°26'54.910"
223	120°7'1.521"	41°27'9.793"
224	120°4'43.546"	41°26'7.657"
225	120°4'6.737"	41°25'7.896"
226	120°11'3.976"	41°28'25.008"
227	120°11'41.368"	41°27'37.127"
228	120°8'34.623"	41°26'30.988"

229	120°8'4.071"	41°27'27.189"
230	120°11'3.976"	41°28'25.008"
231	120°8'33.982"	41°27'19.575"
232	120°8'48.416"	41°26'53.561"
233	120°11'10.295"	41°27'40.821"
234	120°10'52.544"	41°28'3.481"
235	120°8'33.982"	41°27'19.575"
236	120°9'2.137"	41°33'25.656"
237	120°11'14.445"	41°32'11.311"
238	120°11'39.090"	41°31'13.904"
239	120°9'0.394"	41°30'8.831"
240	120°8'23.941"	41°31'6.510"
241	120°7'46.331"	41°33'18.849"
242	120°9'2.137"	41°33'25.656"
243	120°8'12.890"	41°33'7.323"
244	120°8'16.488"	41°32'32.094"
245	120°9'46.617"	41°32'39.580"
246	120°8'50.057"	41°33'8.921"
247	120°8'12.890"	41°33'7.323"
248	120°8'56.737"	41°30'51.204"
249	120°9'11.467"	41°30'30.903"
250	120°10'51.227"	41°31'10.634"
251	120°10'35.385"	41°31'33.156"
252	120°11'8.982"	41°31'54.472"
253	120°10'46.749"	41°32'10.584"
254	120°8'56.737"	41°30'51.204"
255	120°15'58.064"	41°31'4.489"
256	120°13'51.034"	41°29'46.233"
257	120°13'40.428"	41°30'0.719"
258	120°15'42.078"	41°31'17.185"

259	120°15'58.064"	41°31'4.489"
260	120°17'7.811"	41°16'26.549"
261	120°15'30.426"	41°16'23.664"
262	120°15'25.213"	41°17'33.951"
263	120°17'4.695"	41°17'39.166"
264	120°17'7.811"	41°16'26.549"
265	120°45'43.121"	41°24'21.287"
266	120°44'35.941"	41°22'40.671"
267	120°43'17.915"	41°23'9.174"
268	120°44'25.682"	41°24'47.416"
269	120°45'43.121"	41°24'21.287"
270	120°51'3.787"	41°33'46.908"
271	120°48'17.801"	41°27'15.319"
272	120°46'50.526"	41°27'38.836"
273	120°49'51.230"	41°34'0.243"
274	120°51'3.787"	41°33'46.908"
275	121°6'27.588"	41°45'26.301"
276	121°3'34.902"	41°41'16.695"
277	121°1'43.914"	41°42'4.688"
278	121°4'46.419"	41°46'9.638"
279	121°6'27.588"	41°45'26.301"
280	120°51'11.115"	41°59'20.821"
281	120°51'6.924"	41°58'12.374"
282	120°49'58.270"	41°58'13.315"
283	120°50'1.284"	41°59'20.585"
284	120°51'11.115"	41°59'20.821"
285	121°2'28.841"	42°3'44.291"
286	121°1'56.840"	42°2'47.290"
287	120°57'27.834"	42°5'8.293"
288	120°58'6.835"	42°6'0.294"

289	121°2'28.841"	42°3'44.291"
290	120°58'22.879"	42°13'59.502"
291	121°0'38.147"	42°12'24.982"
292	120°59'31.179"	42°10'21.739"
293	120°57'21.225"	42°11'52.343"
294	120°58'22.879"	42°13'59.502"
295	120°57'56.637"	42°12'4.492"
296	120°59'19.249"	42°11'2.359"
297	120°59'55.099"	42°12'8.221"
298	120°58'27.438"	42°13'12.020"
299	120°57'56.637"	42°12'4.492"
300	119°29'39.688"	41°25'2.323"
301	119°29'39.688"	41°24'54.255"
302	119°28'55.686"	41°24'54.255"
303	119°28'55.686"	41°24'55.518"
304	119°29'5.363"	41°25'1.536"
305	119°29'5.788"	41°25'2.389"
306	119°29'18.687"	41°25'5.255"
307	119°29'21.687"	41°24'58.255"
308	119°29'32.687"	41°24'57.255"
309	119°29'31.687"	41°25'1.255"
310	119°29'20.999"	41°25'11.943"
311	119°29'26.369"	41°25'10.818"
312	119°29'32.641"	41°25'8.334"
313	119°29'37.277"	41°25'2.838"
314	119°29'39.688"	41°25'2.323"
315	119°27'27.939"	41°25'9.932"
316	119°27'27.335"	41°25'0.190"
317	119°27'28.983"	41°24'58.163"
318	119°27'42.231"	41°24'56.496"

319	119°27'46.643"	41°24'54.294"
320	119°27'51.431"	41°24'53.151"
321	119°27'52.685"	41°24'52.255"
322	119°27'53.685"	41°24'17.254"
323	119°26'46.683"	41°24'16.254"
324	119°26'46.683"	41°25'3.255"
325	119°26'16.682"	41°25'3.255"
326	119°26'16.682"	41°25'26.256"
327	119°27'3.683"	41°25'27.256"
328	119°27'27.939"	41°25'9.932"
329	119°26'53.683"	41°25'13.255"
330	119°26'48.683"	41°24'18.254"
331	119°27'30.684"	41°24'19.254"
332	119°27'50.685"	41°24'42.255"
333	119°27'43.684"	41°24'54.255"
334	119°27'25.684"	41°24'32.254"
335	119°27'1.683"	41°24'29.254"
336	119°27'6.684"	41°25'13.255"

337	119°26'53.683"	41°25'13.255"
338	120°43'18.154"	41°40'12.456"
339	120°40'45.970"	41°41'27.444"
340	120°42'12.214"	41°42'47.842"
341	120°44'4.181"	41°43'22.813"
342	120°45'48.389"	41°42'19.125"
343	120°43'18.154"	41°40'12.456"
344	120°43'40.055"	41°40'44.298"
345	120°43'37.988"	41°42'49.002"
346	120°42'21.411"	41°42'45.516"
347	120°42'27.561"	41°40'42.762"
348	120°43'40.055"	41°40'44.298"
349	120°35'51.136"	41°53'44.808"
350	120°33'35.867"	41°53'13.688"
351	120°32'38.057"	41°53'51.573"
352	120°34'59.973"	41°55'7.735"
353	120°35'51.136"	41°53'44.808"

实验区由 34 个小区组成，共 470 个拐点，坐标详见下表。

序号	东经	北纬
1	119°47'51.974"	40°58'20.444"
2	119°49'53.591"	40°57'19.360"
3	119°47'13.098"	40°54'3.100"
4	119°45'3.872"	40°55'10.166"
5	119°46'1.737"	40°56'14.140"
6	119°45'33.918"	40°56'27.937"
7	119°47'11.983"	40°58'17.297"
8	119°47'38.801"	40°58'5.464"
9	119°47'51.974"	40°58'20.444"

10	119°46'33.164"	40°56'34.455"
序号	东经	北纬
11	119°47'33.431"	40°56'5.166"
12	119°48'26.540"	40°57'5.410"
13	119°47'27.419"	40°57'34.234"
14	119°46'33.164"	40°56'34.455"
15	119°58'8.993"	41°14'16.304"
16	119°58'21.762"	41°13'13.785"
17	119°59'40.556"	41°13'56.854"
18	119°59'41.118"	41°13'50.187"

19	119°59'52.768"	41°13'36.502"
20	119°58'11.227"	41°12'39.861"
21	119°57'43.262"	41°14'25.640"
22	119°59'39.839"	41°15'21.144"
23	120°0'13.870"	41°15'15.808"
24	119°58'8.993"	41°14'16.304"
25	120°4'46.688"	41°28'15.740"
26	120°4'2.658"	41°26'48.210"
27	120°2'36.106"	41°26'48.885"
28	120°3'5.166"	41°27'37.494"
29	120°3'3.396"	41°27'37.865"
30	120°1'51.893"	41°27'49.907"
31	120°2'2.885"	41°28'13.093"
32	120°3'14.607"	41°27'56.589"
33	120°3'16.348"	41°27'56.192"
34	120°3'36.195"	41°28'29.372"
35	120°4'46.688"	41°28'15.740"
36	120°3'47.653"	41°28'10.005"
37	120°3'3.190"	41°26'54.862"
38	120°3'40.193"	41°26'54.604"
39	120°4'20.691"	41°28'4.057"
40	120°3'47.653"	41°28'10.005"
41	120°33'1.002"	41°19'5.577"
42	120°33'0.821"	41°16'17.840"
43	120°29'26.448"	41°16'16.596"
44	120°29'26.102"	41°16'16.906"
45	120°29'25.355"	41°16'17.303"
46	120°29'24.175"	41°16'17.583"
47	120°29'22.768"	41°16'17.932"
48	120°29'21.929"	41°16'19.512"

49	120°29'21.653"	41°16'20.887"
50	120°29'21.427"	41°16'21.025"
51	120°29'21.176"	41°16'21.009"
52	120°29'20.972"	41°16'20.993"
53	120°29'20.718"	41°16'21.216"
54	120°29'20.357"	41°16'21.560"
55	120°29'20.359"	41°16'21.818"
56	120°29'20.384"	41°16'22.229"
57	120°29'20.090"	41°16'22.453"
58	120°29'19.818"	41°16'22.540"
59	120°29'19.297"	41°16'22.731"
60	120°29'19.117"	41°16'22.955"
61	120°29'19.005"	41°16'23.213"
62	120°29'18.802"	41°16'23.402"
63	120°29'18.645"	41°16'23.695"
64	120°29'18.510"	41°16'23.884"
65	120°29'18.261"	41°16'24.108"
66	120°29'18.035"	41°16'24.297"
67	120°29'17.831"	41°16'24.418"
68	120°29'17.536"	41°16'24.437"
69	120°29'17.104"	41°16'24.439"
70	120°29'14.787"	41°16'24.774"
71	120°29'13.400"	41°16'24.643"
72	120°29'11.577"	41°16'24.421"
73	120°29'8.262"	41°16'24.515"
74	120°29'7.025"	41°16'24.455"
75	120°29'4.263"	41°16'25.076"
76	120°29'1.982"	41°16'25.639"
77	120°28'58.162"	41°16'26.975"
78	120°29'0.148"	41°19'5.616"

79	120°33'1.002"	41°19'5.577"
80	120°30'48.328"	41°18'3.442"
81	120°30'44.536"	41°16'24.567"
82	120°32'53.570"	41°16'25.609"
83	120°32'55.254"	41°18'4.166"
84	120°30'48.328"	41°18'3.442"
85	119°16'55.855"	41°13'9.652"
86	119°17'41.031"	41°12'33.881"
87	119°16'27.053"	41°11'41.390"
88	119°17'10.852"	41°11'40.549"
89	119°17'34.770"	41°10'49.781"
90	119°16'57.752"	41°10'16.102"
91	119°17'14.863"	41°9'40.345"
92	119°16'59.076"	41°9'14.978"
93	119°15'2.383"	41°9'13.986"
94	119°15'1.021"	41°11'56.438"
95	119°16'55.855"	41°13'9.652"
96	119°15'22.215"	41°9'21.235"
97	119°16'52.953"	41°9'20.139"
98	119°17'5.986"	41°9'42.520"
99	119°16'44.956"	41°10'16.766"
100	119°17'22.201"	41°10'52.119"
101	119°17'3.802"	41°11'32.887"
102	119°15'56.157"	41°11'32.275"
103	119°17'24.291"	41°12'34.522"
104	119°17'4.671"	41°12'51.124"
105	119°15'4.558"	41°11'26.739"
106	119°15'22.215"	41°9'21.235"
107	119°19'29.663"	41°17'44.792"
108	119°19'58.624"	41°17'15.008"

109	119°17'17.987"	41°15'50.940"
110	119°16'42.072"	41°15'39.716"
111	119°16'46.385"	41°14'56.862"
112	119°17'22.461"	41°15'16.394"
113	119°18'51.217"	41°14'14.791"
114	119°18'11.580"	41°13'54.525"
115	119°17'20.757"	41°14'25.876"
116	119°16'17.044"	41°14'9.994"
117	119°15'49.682"	41°16'13.392"
118	119°19'29.663"	41°17'44.792"
119	119°16'1.645"	41°16'7.584"
120	119°16'25.201"	41°14'21.948"
121	119°17'20.716"	41°14'36.215"
122	119°18'13.817"	41°14'4.293"
123	119°18'35.000"	41°14'14.858"
124	119°17'21.302"	41°15'4.851"
125	119°16'36.385"	41°14'40.701"
126	119°16'30.247"	41°15'44.049"
127	119°17'14.125"	41°15'58.531"
128	119°19'42.276"	41°17'17.521"
129	119°19'26.520"	41°17'34.940"
130	119°16'1.645"	41°16'7.584"
131	119°21'13.009"	41°19'54.765"
132	119°21'26.005"	41°19'17.521"
133	119°19'38.999"	41°18'55.471"
134	119°19'25.627"	41°19'27.860"
135	119°19'31.926"	41°19'36.354"
136	119°21'13.009"	41°19'54.765"
137	119°19'31.758"	41°19'30.328"
138	119°19'41.842"	41°19'5.082"

139	119°21'11.146"	41°19'24.298"
140	119°21'3.594"	41°19'48.077"
141	119°19'31.758"	41°19'30.328"
142	119°12'58.078"	40°45'5.872"
143	119°17'34.273"	40°44'14.853"
144	119°15'16.387"	40°42'37.094"
145	119°11'3.070"	40°43'14.329"
146	119°12'58.078"	40°45'5.872"
147	119°11'41.362"	40°43'29.187"
148	119°15'34.620"	40°42'51.138"
149	119°17'10.492"	40°43'59.552"
150	119°13'13.954"	40°44'44.917"
151	119°11'41.362"	40°43'29.187"
152	119°16'10.683"	40°53'57.703"
153	119°17'28.819"	40°53'27.815"
154	119°14'19.066"	40°48'28.388"
155	119°12'44.521"	40°49'8.691"
156	119°16'10.683"	40°53'57.703"
157	119°13'13.541"	40°49'15.544"
158	119°14'10.370"	40°48'50.984"
159	119°17'3.044"	40°53'19.570"
160	119°16'23.237"	40°53'34.289"
161	119°13'13.541"	40°49'15.544"
162	119°20'37.866"	40°52'6.598"
163	119°22'7.273"	40°51'49.054"
164	119°20'13.954"	40°45'43.921"
165	119°19'17.052"	40°45'43.489"
166	119°18'1.142"	40°47'16.881"
167	119°19'47.531"	40°51'25.914"
168	119°20'37.866"	40°52'6.598"

169	119°18'17.620"	40°47'15.520"
170	119°19'26.262"	40°45'52.706"
171	119°20'6.202"	40°45'54.320"
172	119°21'39.497"	40°51'39.479"
173	119°20'44.967"	40°51'52.271"
174	119°20'6.613"	40°51'27.861"
175	119°18'17.620"	40°47'15.520"
176	119°14'12.785"	41°5'14.402"
177	119°13'15.160"	40°59'5.714"
178	119°10'14.369"	40°59'3.273"
179	119°11'26.855"	41°5'13.562"
180	119°14'12.785"	41°5'14.402"
181	119°12'15.137"	41°4'46.698"
182	119°11'7.976"	40°59'16.797"
183	119°12'32.826"	40°59'17.392"
184	119°13'22.443"	41°4'44.246"
185	119°12'15.137"	41°4'46.698"
186	119°27'56.575"	40°57'26.830"
187	119°31'32.108"	40°54'46.557"
188	119°30'14.417"	40°53'52.193"
189	119°26'38.536"	40°56'32.937"
190	119°27'56.575"	40°57'26.830"
191	119°26'56.844"	40°56'30.064"
192	119°27'11.239"	40°56'17.671"
193	119°27'32.169"	40°56'31.648"
194	119°27'17.775"	40°56'44.043"
195	119°26'56.844"	40°56'30.064"
196	119°29'27.013"	40°54'47.244"
197	119°29'52.859"	40°54'25.696"
198	119°30'48.351"	40°55'2.971"

199	119°30'21.935"	40°55'24.447"
200	119°29'27.013"	40°54'47.244"
201	119°30'13.581"	40°59'22.883"
202	119°30'50.428"	40°57'42.902"
203	119°28'28.254"	40°57'7.774"
204	119°27'49.204"	40°58'47.889"
205	119°30'13.581"	40°59'22.883"
206	119°28'16.429"	40°58'37.979"
207	119°28'37.866"	40°57'42.478"
208	119°29'58.442"	40°58'0.798"
209	119°29'37.188"	40°58'56.555"
210	119°28'16.429"	40°58'37.979"
211	119°35'44.029"	41°0'58.860"
212	119°36'32.110"	40°59'23.158"
213	119°33'16.605"	40°58'26.576"
214	119°32'26.681"	41°0'6.638"
215	119°35'44.029"	41°0'58.860"
216	119°33'17.756"	41°0'1.730"
217	119°33'40.981"	40°59'8.066"
218	119°35'36.852"	40°59'40.042"
219	119°35'11.178"	41°0'33.378"
220	119°33'17.756"	41°0'1.730"
221	119°49'20.836"	41°10'13.147"
222	119°47'25.915"	41°7'22.264"
223	119°45'1.412"	41°6'59.517"
224	119°41'17.433"	41°8'7.866"
225	119°45'42.759"	41°10'5.981"
226	119°49'20.836"	41°10'13.147"
227	119°41'45.691"	41°8'5.398"
228	119°44'27.398"	41°7'17.299"

229	119°46'30.112"	41°7'47.056"
230	119°45'23.942"	41°9'47.349"
231	119°41'45.691"	41°8'5.398"
232	119°56'42.613"	41°12'21.922"
233	119°58'46.232"	41°11'7.287"
234	119°55'58.918"	41°8'59.035"
235	119°54'8.220"	41°10'20.923"
236	119°56'42.613"	41°12'21.922"
237	119°54'41.848"	41°10'21.034"
238	119°55'59.602"	41°9'22.277"
239	119°58'9.548"	41°11'4.968"
240	119°56'44.240"	41°12'0.767"
241	119°54'41.848"	41°10'21.034"
242	119°42'9.998"	41°7'18.178"
243	119°43'41.524"	41°6'18.230"
244	119°44'25.945"	41°5'56.261"
245	119°43'52.008"	41°4'15.858"
246	119°40'30.632"	41°4'27.949"
247	119°41'57.957"	41°7'25.464"
248	119°42'9.998"	41°7'18.178"
249	119°40'41.721"	41°4'34.318"
250	119°43'15.690"	41°4'24.178"
251	119°43'27.932"	41°4'59.978"
252	119°43'0.174"	41°5'32.068"
253	119°42'54.961"	41°5'46.735"
254	119°42'55.078"	41°6'16.924"
255	119°42'46.322"	41°6'28.997"
256	119°42'12.665"	41°6'43.722"
257	119°41'51.564"	41°6'53.000"
258	119°40'41.721"	41°4'34.318"

259	119°53'18.247"	41°19'17.967"
260	119°54'58.426"	41°17'23.818"
261	119°52'55.427"	41°15'56.434"
262	119°51'3.556"	41°17'41.693"
263	119°53'18.247"	41°19'17.967"
264	119°51'34.537"	41°17'38.106"
265	119°52'57.310"	41°16'20.799"
266	119°54'28.768"	41°17'28.257"
267	119°53'14.050"	41°18'50.702"
268	119°51'34.537"	41°17'38.106"
269	119°48'44.011"	41°20'45.563"
270	119°50'54.329"	41°20'15.671"
271	119°49'53.631"	41°18'24.704"
272	119°47'41.734"	41°18'48.516"
273	119°48'44.011"	41°20'45.563"
274	119°48'13.398"	41°19'1.508"
275	119°49'40.749"	41°18'42.827"
276	119°50'28.392"	41°20'7.905"
277	119°48'58.427"	41°20'27.028"
278	119°48'13.398"	41°19'1.508"
279	119°56'14.699"	41°26'13.733"
280	119°57'37.341"	41°25'25.680"
281	119°53'14.642"	41°24'1.764"
282	119°53'32.294"	41°25'24.098"
283	119°56'14.699"	41°26'13.733"
284	119°53'43.839"	41°25'19.044"
285	119°53'27.984"	41°24'15.025"
286	119°56'59.609"	41°25'26.483"
287	119°56'2.129"	41°25'59.962"
288	119°53'43.839"	41°25'19.044"

289	119°56'17.346"	41°24'1.617"
290	119°56'50.404"	41°23'26.491"
291	119°55'20.036"	41°22'38.487"
292	119°54'32.785"	41°22'37.600"
293	119°54'16.183"	41°22'56.633"
294	119°56'17.346"	41°24'1.617"
295	119°54'21.740"	41°22'55.939"
296	119°54'35.941"	41°22'40.406"
297	119°55'15.902"	41°22'40.595"
298	119°56'43.177"	41°23'27.607"
299	119°56'15.702"	41°23'57.125"
300	119°54'21.740"	41°22'55.939"
301	120°7'5.516"	41°27'25.620"
302	120°7'35.867"	41°26'53.522"
303	120°4'46.687"	41°24'58.156"
304	120°3'47.502"	41°24'58.312"
305	120°3'57.191"	41°26'1.819"
306	120°7'5.516"	41°27'25.620"
307	120°3'52.754"	41°25'1.388"
308	120°4'42.569"	41°25'0.843"
309	120°7'28.006"	41°26'54.110"
310	120°7'3.589"	41°27'20.893"
311	120°4'3.134"	41°25'59.606"
312	120°3'52.754"	41°25'1.388"
313	120°11'16.730"	41°28'57.796"
314	120°12'29.483"	41°27'26.268"
315	120°8'55.918"	41°26'13.192"
316	120°8'24.866"	41°26'28.816"
317	120°7'44.186"	41°27'47.759"
318	120°11'16.730"	41°28'57.796"

319	120°8'4.071"	41°27'27.189"
320	120°8'34.623"	41°26'30.988"
321	120°11'41.368"	41°27'37.127"
322	120°11'3.976"	41°28'25.008"
323	120°8'4.071"	41°27'27.189"
324	120°8'23.941"	41°31'6.510"
325	120°9'0.394"	41°30'8.831"
326	120°11'39.090"	41°31'13.904"
327	120°11'45.518"	41°30'58.404"
328	120°8'16.208"	41°29'31.780"
329	120°7'28.290"	41°33'17.227"
330	120°7'46.286"	41°33'19.014"
331	120°9'2.137"	41°33'25.656"
332	120°7'46.331"	41°33'18.849"
333	120°8'23.941"	41°31'6.510"
334	120°15'54.308"	41°31'32.346"
335	120°16'28.154"	41°31'3.478"
336	120°13'53.961"	41°29'28.353"
337	120°13'29.100"	41°30'2.942"
338	120°15'54.308"	41°31'32.346"
339	120°13'40.428"	41°30'0.719"
340	120°13'51.034"	41°29'46.233"
341	120°15'58.064"	41°31'4.489"
342	120°15'42.078"	41°31'17.185"
343	120°13'40.428"	41°30'0.719"
344	120°17'20.299"	41°18'26.681"
345	120°17'29.523"	41°16'14.762"
346	120°14'18.864"	41°16'5.946"
347	120°14'9.435"	41°18'16.880"
348	120°17'20.299"	41°18'26.681"

349	120°15'25.213"	41°17'33.951"
350	120°15'30.426"	41°16'23.664"
351	120°17'7.811"	41°16'26.549"
352	120°17'4.695"	41°17'39.166"
353	120°15'25.213"	41°17'33.951"
354	120°53'24.851"	41°33'7.064"
355	120°44'11.262"	41°21'33.249"
356	120°41'28.355"	41°22'29.460"
357	120°45'21.766"	41°29'55.936"
358	120°49'49.277"	41°33'56.129"
359	120°46'50.526"	41°27'38.836"
360	120°48'17.801"	41°27'15.319"
361	120°51'3.787"	41°33'46.908"
362	120°49'53.413"	41°33'59.842"
363	120°50'29.979"	41°34'32.674"
364	120°53'24.851"	41°33'7.064"
365	120°43'17.915"	41°23'9.174"
366	120°44'35.941"	41°22'40.671"
367	120°45'43.121"	41°24'21.287"
368	120°44'25.682"	41°24'47.416"
369	120°43'17.915"	41°23'9.174"
370	121°9'2.961"	41°46'54.850"
371	121°4'0.127"	41°40'0.631"
372	120°59'2.134"	41°42'0.621"
373	121°3'4.596"	41°47'10.510"
374	121°5'52.169"	41°45'59.257"
375	121°7'13.852"	41°47'40.641"
376	121°9'2.961"	41°46'54.850"
377	121°6'27.588"	41°45'26.301"
378	121°4'46.419"	41°46'9.638"

379	121°1'43.914"	41°42'4.688"
380	121°3'34.902"	41°41'16.695"
381	121°6'27.588"	41°45'26.301"
382	120°51'40.910"	41°59'45.812"
383	120°51'35.231"	41°57'45.569"
384	120°49'27.145"	41°57'46.527"
385	120°49'33.519"	41°59'45.511"
386	120°51'40.910"	41°59'45.812"
387	120°49'58.270"	41°58'13.315"
388	120°51'6.924"	41°58'12.374"
389	120°51'11.115"	41°59'20.821"
390	120°50'1.284"	41°59'20.585"
391	120°49'58.270"	41°58'13.315"
392	120°58'17.836"	42°6'46.295"
393	121°3'39.843"	42°4'12.291"
394	121°2'29.841"	42°1'36.289"
395	120°56'43.833"	42°4'39.293"
396	120°58'17.836"	42°6'46.295"
397	120°57'27.834"	42°5'8.293"
398	121°1'56.840"	42°2'47.290"
399	121°2'28.841"	42°3'44.291"
400	120°58'6.835"	42°6'0.294"
401	120°57'27.834"	42°5'8.293"
402	120°58'17.185"	42°14'30.108"
403	121°1'35.014"	42°12'16.035"
404	121°0'3.224"	42°9'31.632"
405	120°56'58.171"	42°11'39.064"
406	120°58'17.185"	42°14'30.108"
407	120°57'21.225"	42°11'52.343"
408	120°59'31.179"	42°10'21.739"

409	121°0'38.147"	42°12'24.982"
410	120°58'22.879"	42°13'59.502"
411	120°57'21.225"	42°11'52.343"
412	119°27'27.939"	41°25'9.932"
413	119°27'3.683"	41°25'27.256"
414	119°26'16.682"	41°25'26.256"
415	119°26'16.682"	41°25'3.255"
416	119°26'46.683"	41°25'3.255"
417	119°26'46.683"	41°24'16.254"
418	119°27'53.685"	41°24'17.254"
419	119°27'52.685"	41°24'52.255"
420	119°27'51.431"	41°24'53.151"
421	119°27'53.181"	41°24'52.733"
422	119°28'12.582"	41°24'57.955"
423	119°28'17.301"	41°24'49.331"
424	119°28'18.212"	41°24'46.943"
425	119°28'23.250"	41°24'49.470"
426	119°28'24.667"	41°24'51.792"
427	119°28'26.005"	41°24'53.105"
428	119°28'31.257"	41°24'52.855"
429	119°28'50.097"	41°24'53.054"
430	119°28'55.417"	41°24'55.351"
431	119°28'55.686"	41°24'55.518"
432	119°28'55.686"	41°24'54.255"
433	119°29'39.688"	41°24'54.255"
434	119°29'39.688"	41°24'16.254"
435	119°29'22.687"	41°24'16.254"
436	119°29'22.687"	41°24'13.254"
437	119°26'35.682"	41°24'12.254"
438	119°26'35.683"	41°24'55.255"

439	119°26'15.682"	41°24'55.255"
440	119°26'15.682"	41°25'52.255"
441	119°26'29.321"	41°25'50.752"
442	119°26'33.166"	41°25'48.850"
443	119°26'35.865"	41°25'42.413"
444	119°26'43.738"	41°25'38.541"
445	119°27'2.423"	41°25'28.064"
446	119°27'10.442"	41°25'28.377"
447	119°27'25.260"	41°25'22.272"
448	119°27'30.232"	41°25'16.327"
449	119°27'28.058"	41°25'11.857"
450	119°27'27.939"	41°25'9.932"
451	120°43'18.154"	41°40'12.456"
452	120°45'48.389"	41°42'19.125"
453	120°44'4.181"	41°43'22.813"
454	120°44'46.697"	41°43'36.081"

455	120°46'37.217"	41°42'29.750"
456	120°43'42.397"	41°40'0.501"
457	120°43'18.154"	41°40'12.456"
458	120°32'16.203"	41°53'42.776"
459	120°35'0.142"	41°55'21.774"
460	120°35'19.692"	41°54'47.460"
461	120°35'34.782"	41°54'22.840"
462	120°36'36.109"	41°54'42.980"
463	120°37'44.243"	41°52'52.623"
464	120°34'34.991"	41°52'8.756"
465	120°32'16.203"	41°53'42.776"
466	120°35'51.136"	41°53'44.808"
467	120°34'59.973"	41°55'7.735"
468	120°32'38.057"	41°53'51.573"
469	120°33'35.867"	41°53'13.688"
470	120°35'51.136"	41°53'44.808"