

目 录

1—2	中国地势图	1:12 000 000	马克成
3	地质年代及中国地壳发展简表		王鸿祯
4	中国中、上元古界露头分布图(前震旦系)	1:18 000 000	乔秀夫
5	华北中元古代(长城期18.5—17亿年)古地理图	1: 9 000 000	乔秀夫
5	华北中元古代(南口期17—14亿年)古地理图	1: 9 000 000	乔秀夫
6	华北中元古代(蓟县期14—10亿年)古地理图	1: 9 000 000	乔秀夫
6	华北晚元古代(青白口期10—8.5亿年)古地理图	1: 9 000 000	乔秀夫
7	华北中、上元古界(18.5—8.5亿年)柱状剖面图		乔秀夫
8	华北中、晚元古代沉积示意剖面图		乔秀夫
9	华南中元古代(10亿年前)古地理图	1: 9 000 000	朱 鸿
9	华南晚元古代(震旦纪前)古地理图	1: 9 000 000	王自强
10	中国中、晚元古代古构造图(前震旦纪)	1:18 000 000	王鸿祯 乔秀夫
11	华南中元古界(10亿年前)柱状剖面图		朱 鸿
11	华南中元古代(10亿年前)沉积示意剖面图		朱 鸿
12	华南上元古界(震旦系前)柱状剖面图		王自强
12	华南晚元古代(震旦纪前)沉积示意剖面图		王自强
13	中国震旦系露头分布图	1:18 000 000	马丽芳
14	中国震旦纪冰川沉积示意图	1:18 000 000	马丽芳
15	中国下震旦统柱状剖面图		马丽芳
16	中国早震旦世沉积示意剖面图		马丽芳
17—18	中国早震旦世古地理图	1:12 000 000	马丽芳
19	中国上震旦统柱状剖面图		王自强
20	中国晚震旦世沉积示意剖面图		王自强
21—22	中国晚震旦世古地理图	1:12 000 000	王自强
23	中国加里东阶段古构造图	1:18 000 000	王鸿祯 戴维声
24	中国寒武系露头分布图	1:18 000 000	王良忱
25—26	中国早寒武世古地理图	1:12 000 000	杨家驛
27	中国寒武系柱状剖面图		杨家驛
28	中国东部早寒武世梅树村期古地理图	1:12 000 000	杨家驛
29	中国东部早寒武世筲竹寺期古地理图	1:12 000 000	杨家驛
30	中国东部早寒武世沧浪铺期古地理图	1:12 000 000	杨家驛
31	中国东部早寒武世龙王庙期古地理图	1:12 000 000	杨家驛

32	中国寒武纪沉积示意剖面图			王良忱
33—34	中国中、晚寒武世古地理图	1:12 000 000		王良忱
35	中国寒武纪生物地理略图	1:18 000 000		杨家骥
36	中国奥陶系露头分布图	1:18 000 000		赖才根
37—38	中国早奥陶世古地理图	1:12 000 000		傅 锟
39—40	中国奥陶系柱状剖面图			赖才根
41—42	中国中奥陶世古地理图	1:12 000 000		傅 锟
43	中国奥陶纪沉积示意剖面图			傅 锟
44	中国早奥陶世生物地理略图	1:18 000 000		赖才根
45—46	中国晚奥陶世古地理图	1:12 000 000		傅 锟
47	中国志留系露头分布图	1:18 000 000		戴维声
48	中国南部早志留世龙马溪期古地理图	1:12 000 000		李志明
49—50	中国早—中志留世古地理图	1:12 000 000	李志明	戴维声
51	中国志留纪生物地理略图	1:25 000 000		李志明
51—52	中国志留系柱状剖面图		戴维声	李志明
53—54	中国中—晚志留世古地理图	1:12 000 000	戴维声	李志明
55	中国志留纪沉积示意剖面图		李志明	戴维声
56	中国泥盆系露头分布图	1:18 000 000	王士涛	王金星
57—58	中国早泥盆世古地理图	1:12 000 000	王士涛	侯鸿飞
59	中国下、中泥盆统柱状剖面图		侯鸿飞	王金星
60	华南早泥盆世早期古地理图	1:9 000 000		王士涛
60	华南早泥盆世晚期古地理图	1:6 000 000		侯鸿飞
61—62	中国中泥盆世古地理图	1:12 000 000	王士涛	侯鸿飞
63	中国上泥盆统柱状剖面图			赵锡文
64	中国泥盆纪沉积示意剖面图		王士涛	赵锡文
65—66	中国晚泥盆世古地理图	1:12 000 000		赵锡文
67	中国早泥盆世生物地理略图	1:25 000 000		侯鸿飞
67	中国早石炭世岩关晚期生物地理略图	1:25 000 000	杨式溥	严克明
68	中国石炭系露头分布图	1:18 000 000		严克明
69—70	中国早石炭世古地理图	1:12 000 000	杨式溥	严克明
71	中国石炭系柱状剖面图			严克明
72	中国石炭纪沉积示意剖面图			严克明
73—74	中国晚石炭世古地理图	1:12 000 000		严克明
75	中国二叠系露头分布图	1:18 000 000		朱秀芳
76	中国早二叠世栖霞期古地理图	1:18 000 000		朱秀芳

77—78	中国早二叠世茅口期古地理图	1: 12 000 000		詹立培
79	中国二叠系柱状剖面图			朱秀芳
80	中国二叠纪沉积示意剖面图		李树誉	朱秀芳
81—82	中国晚二叠世古地理图	1: 12 000 000		李树誉
83	中国早二叠世生物地理略图	1: 25 000 000		詹立培
83	中国晚三叠世气候分带图	1: 25 000 000		刘本培
84	中国海西(华力西)阶段古构造图	1: 18 000 000	刘本培	罗新民
85—86	中国早三叠世古地理图	1: 12 000 000		卢重明
87	中国三叠系露头分布图	1: 18 000 000		卢重明
88	中国下、中三叠统柱状剖面图			卢重明
89—90	中国中三叠世古地理图	1: 12 000 000		卢重明
91	中国上三叠统柱状剖面图			刘本培
92	中国三叠纪沉积示意剖面图		卢重明	刘本培
93—94	中国晚三叠世古地理图	1: 12 000 000	刘本培	卢重明
95	中国印支阶段古构造图	1: 18 000 000		刘本培
96	中国侏罗系露头分布图	1: 18 000 000		黄怀曾
97—98	中国早侏罗世古地理图	1: 12 000 000		黄怀曾
99	中国下、中侏罗统柱状剖面图			黄怀曾
100	中国上侏罗统柱状剖面图			黄怀曾
101—102	中国中侏罗世古地理图	1: 12 000 000		黄怀曾
103	中国侏罗纪沉积示意剖面图			黄怀曾
104	中国东部侏罗纪火山岩分布图	1: 12 000 000		黄怀曾
105—106	中国晚侏罗世古地理图	1: 12 000 000		黄怀曾
107	中国早侏罗世气候分带图	1: 25 000 000		黄怀曾
107	中国中、晚侏罗世气候分带图	1: 25 000 000		黄怀曾
108	中国白垩系露头分布图	1: 18 000 000	刘 训	傅德荣
109—110	中国早白垩世早期古地理图	1: 12 000 000	刘 训	傅德荣
111	中国下白垩统柱状剖面图		刘 训	傅德荣
112	中国上白垩统柱状剖面图		刘 训	傅德荣
113—114	中国早白垩世晚期古地理图	1: 12 000 000	刘 训	傅德荣
115	中国东部早白垩世火山岩分布图	1: 18 000 000		刘 训
115	中国东部晚白垩世火山岩分布图	1: 18 000 000		刘 训
116	中国早白垩世气候分带图	1: 25 000 000		刘 训
116	中国晚白垩世气候分带图	1: 25 000 000		刘 训
117—118	中国晚白垩世古地理图	1: 12 000 000	刘 训	傅德荣

119	中国燕山阶段古构造图	1: 18 000 000	刘 训
120	中国下第三系露头分布图	1: 18 000 000	周正国
121—122	中国早第三纪古地理图	1: 12 000 000	周正国
123	中国下第三系柱状剖面图		周正国
124	中国上第三系露头分布图	1: 18 000 000	楚旭春
125—126	中国晚第三纪古地理图	1: 12 000 000	楚旭春
127	中国上第三系柱状剖面图		楚旭春
128	中国早第三纪沉积示意剖面图		周正国
128	中国晚第三纪沉积示意剖面图		楚旭春
129	中国喜马拉雅阶段古构造图	1: 18 000 000	楚旭春 周正国
130	中国早第三纪气候分带图	1: 25 000 000	刘 训
130	中国晚第三纪气候分带图	1: 25 000 000	楚旭春
131	中国第四纪古地理图图例		闵隆瑞 陈华慧 赵良政 关康年
132	中国更新统露头分布图	1: 18 000 000	闵隆瑞 范 蕙
133—134	中国早更新世古地理图	1: 12 000 000	陈华慧 闵隆瑞 赵良政 关康年
135—136	中国更新世地貌和沉积剖面图		关康年 陈华慧 闵隆瑞 范 蕙
137—138	中国中、晚更新世古地理图	1: 12 000 000	闵隆瑞 陈华慧 赵良政 关康年
139	中国第四纪冰川遗迹分布图	1: 18 000 000	闵隆瑞
140	西藏昌都至新疆北塔山地壳构造发展示意剖面图(盖层未表示)		王鸿祯
140	四川巴塘至台湾玉山地壳构造发展示意剖面图(盖层未表示)		王鸿祯
141—142	中国大地构造分区简图	1: 18 000 000	王鸿祯 马丽芳
143	广西百色至内蒙古林西地壳构造发展示意剖面图(盖层未表示)		王鸿祯
143	西藏德让宗至新疆克拉玛依地壳构造发展示意剖面图(盖层未表示)		王鸿祯
1—85	《中国古地理图集》说明书		
1—28	《中国古地理图集》英文说明		
1—25	附录: I. 各纪露头分布图资料点索引 II. 各纪地层单位名称索引		

CONTENTS

1-2	Topographic map of China	1:12 000 000	Ma Kecheng
3	Geological time scale and crustal development of China		Wang Hongzhen
4	Outcrop map of the Middle and Upper Proterozoic (pre-Sinian) of China	1:18 000 000	Qiao Xiufu
5	Palaeogeographic map of the Middle Proterozoic (Changchengian 1850-1700 m.y. BP) of North China	1:9 000 000	Qiao Xiufu
5	Palaeogeographic map of the Middle Proterozoic (Nankouan 1700-1400 m.y. BP) of North China	1:9 000 000	Qiao Xiufu
6	Palaeogeographic map of the Middle Proterozoic (Jixianian 1400-1000 m.y. BP) of North China	1:9 000 000	Qiao Xiufu
6	Palaeogeographic map of the Late Proterozoic (Qingbaikouan 1000-850 m.y. BP) of North China	1:9 000 000	Qiao Xiufu
7	Columnar sections of the Middle and Upper Proterozoic (1850-850 m.y. BP) of North China		Qiao Xiufu
8	Sketch profiles showing the Middle and Late Proterozoic sedimentation of North China		Qiao Xiufu
9	Palaeogeographic map of the Middle Proterozoic (prior to 1000 m.y. BP) of South China	1:9 000 000	Zhu Hong
9	Palaeogeographic map of the Late Proterozoic (1000-850 m.y. BP) of South China	1:9 000 000	Wang Ziqiang
10	Palaeotectonic map of the Middle and Late Proterozoic (pre-Sinian) of China	1:18 000 000	Wang Hongzhen Qiao Xiufu
11	Columnar sections of the Middle Proterozoic (prior to 1000 m.y. BP) of South China		Zhu Hong
11	Sketch profiles showing the Middle Proterozoic sedimentation (prior to 1000 m.y. BP) of South China		Zhu Hong
12	Columnar sections of the Upper Proterozoic (pre-Sinian) of South China		Wang Ziqiang
12	Sketch profiles showing the Late Proterozoic (pre-Sinian) sedimentation of South China		Wang Ziqiang
13	Outcrop map of the Sinian of China	1:18 000 000	Ma Lifang
14	Sketch map showing the Sinian glacial deposits of China	1:18 000 000	Ma Lifang
15	Columnar sections of the Lower Sinian of China		Ma Lifang
16	Sketch profiles showing the Early Sinian sedimentation of China		Ma Lifang
17-18	Palaeogeographic map of the Early Sinian of China	1:12 000 000	Ma Lifang
19	Columnar sections of the Upper Sinian of China		Wang Ziqiang
20	Sketch profiles showing the Late Sinian sedimentation of China		Wang Ziqiang
21-22	Palaeogeographic map of the Late Sinian of China	1:12 000 000	Wang Ziqiang
23	Palaeotectonic map of China in the Caledonian Stage	1:18 000 000	Wang Hongzhen Dai Weisheng
24	Outcrop map of the Cambrian of China	1:18 000 000	Wang Liangchen
25-26	Palaeogeographic map of the Early Cambrian of China	1:12 000 000	Yang Jialu

27	Columnar sections of the Cambrian of China		Yang Jialu
28	Palaeogeographic map of the Early Cambrian Meishucunian Age of the eastern part of China	1:12 000 000	Yang Jialu
29	Palaeogeographic map of the Early Cambrian Qiongzhusian Age of the eastern part of China	1:12 000 000	Yang Jialu
30	Palaeogeographic map of the Early Cambrian Canglangpuan Age of the eastern part of China	1:12 000 000	Yang Jialu
31	Palaeogeographic map of the Early Cambrian Longwangmiaoan Age of the eastern part of China	1:12 000 000	Yang Jialu
32	Sketch profiles showing the Cambrian sedimentation of China		Wang Liangchen
33 - 34	Palaeogeographic map of the Middle and Late Cambrian of China	1:12 000 000	Wang Liangchen
35	Sketch map showing the Cambrian biogeography of China	1:18 000 000	Yang Jialu
36	Outcrop map of the Ordovician of China	1:18 000 000	Lai Caigen
37 - 38	Palaeogeographic map of the Early Ordovician of China	1:12 000 000	Fu Kun
39 - 40	Columnar sections of the Ordovician of China		Lai Caigen
41 - 42	Palaeogeographic map of the Middle Ordovician of China	1:12 000 000	Fu Kun
43	Sketch profiles showing the Ordovician sedimentation of China		Fu Kun
44	Sketch map showing the Early Ordovician biogeography of China	1:18 000 000	Lai Caigen
45 - 46	Palaeogeographic map of the Late Ordovician of China	1:12 000 000	Fu Kun
47	Outcrop map of the Silurian of China	1:18 000 000	Dai Weisheng
48	Palaeogeographic map of the Early Silurian Longmaqian Age of South China	1:12 000 000	Li Zhiming
49 - 50	Palaeogeographic map of the Early to Middle Silurian of China	1:12 000 000	Li Zhiming
			Dai Weisheng
51	Sketch map showing the Silurian biogeography of China	1:25 000 000	Li Zhiming
51 - 52	Columnar sections of the Silurian of China		Dai Weisheng
			Li Zhiming
53 - 54	Palaeogeographic map of the Middle to Late Silurian of China	1:12 000 000	Dai Weisheng
			Li Zhiming
55	Sketch profiles showing the Silurian sedimentation of China		Li Zhiming
			Dai Weisheng
56	Outcrop map of the Devonian of China	1:18 000 000	Wang Shitao
			Wang Jinxing
57 - 58	Palaeogeographic map of the Early Devonian of China	1:12 000 000	Wang Shitao
			Hou Hongfei
59	Columnar sections of the Lower and Middle Devonian of China		Hou Hongfei
			Wang Jinxing
60	Palaeogeographic map of the early Early Devonian of South China	1:9 000 000	Wang Shitao
60	Palaeogeographic map of the late Early Devonian of South China	1:6 000 000	Hou Hongfei
61 - 62	Palaeogeographic map of the Middle Devonian of China	1:12 000 000	Wang Shitao
			Hou Hongfei
63	Columnar sections of the Upper Devonian of China		Zhao Xiwen
64	Sketch profiles showing the Devonian sedimentation of China		Wang Shitao
			Zhao Xiwen

65-66	Palaeogeographic map of the Late Devonian of China	1:12 000 000	Zhao Xiwen
67	Sketch map showing the Early Devonian biogeography of China	1:25 000 000	Hou Hongfei
67	Sketch map showing the Early Carboniferous (late Yanguanian Age) biogeography of China		Yang Shipu
68	Outcrop map of the Carboniferous of China	1:25 000 000	Yan Keming
69-70	Palaeogeographic map of the Early Carboniferous of China	1:18 000 000	Yan Keming
			Yang Shipu
71	Columnar sections of the Carboniferous of China		Yan Keming
72	Sketch profiles showing the Carboniferous sedimentation of China		Yan Keming
73-74	Palaeogeographic map of the Late Carboniferous of China	1:12 000 000	Yan Keming
75	Outcrop map of the Permian of China	1:18 000 000	Zhu Xiufang
76	Palaeogeographic map of the Early Permian (Chihshian Age) of China	1:18 000 000	Zhu Xiufang
77-78	Palaeogeographic map of the Early Permian (Maokouan Age) of China	1:12 000 000	Zhan Lipai
79	Columnar sections of the Permian of China		Zhu Xiufang
80	Sketch profiles showing the Permian sedimentation of China		Li Shuyu
			Zhu Xiufang
81-82	Palaeogeographic map of the Late Permian of China	1:12 000 000	Li Shuyu
83	Sketch map showing the Early Permian biogeography of China	1:25 000 000	Zhan Lipai
83	Sketch map showing the Late Triassic climatic belts of China	1:25 000 000	Liu Benpei
84	Palaeotectonic map of China in the Hercynian (Variscan) Stage	1:18 000 000	Liu Benpei
			Luo Xinming
85-86	Palaeogeographic map of the Early Triassic of China	1:12 000 000	Lu Zhongming
87	Outcrop map of the Triassic of China	1:18 000 000	Lu Zhongming
88	Columnar sections of the Lower and Middle Triassic of China		Lu Zhongming
89-90	Palaeogeographic map of the Middle Triassic of China	1:12 000 000	Lu Zhongming
91	Columnar sections of the Upper Triassic of China		Liu Benpei
92	Sketch profiles showing the Triassic sedimentation of China		Lu Zhongming
			Liu Benpei
93-94	Palaeogeographic map of the Late Triassic of China	1:12 000 000	Liu Benpei
			Lu Zhongming
95	Palaeotectonic map of China in the Indosinian Stage	1:18 000 000	Liu Benpei
96	Outcrop map of the Jurassic of China	1:18 000 000	Huang Huaizeng
97-98	Palaeogeographic map of the Early Jurassic of China	1:12 000 000	Huang Huaizeng
99	Columnar sections of the Lower and Middle Jurassic of China		Huang Huaizeng
100	Columnar sections of the Upper Jurassic of China		Huang Huaizeng
101-102	Palaeogeographic map of the Middle Jurassic of China	1:12 000 000	Huang Huaizeng
103	Sketch profiles showing the Jurassic sedimentation of China		Huang Huaizeng
104	Sketch map showing the distribution of the Jurassic volcanic rocks in the eastern part of China	1:12 000 000	Huang Huaizeng
105-106	Palaeogeographic map of the Late Jurassic of China	1:12 000 000	Huang Huaizeng
107	Sketch map showing the Early Jurassic climatic belts of China	1:25 000 000	Huang Huaizeng
107	Sketch map showing the Middle and Late Jurassic climatic belts of China	1:25 000 000	Huang Huaizeng

108	Outcrop map of the Cretaceous of China	1:18 000 000	Liu Xun
			Fu Derong
109-110	Palaeogeographic map of the early Early Cretaceous of China	1:12 000 000	Liu Xun
			Fu Derong
111	Columnar sections of the Lower Cretaceous of China		Liu Xun
			Fu Derong
112	Columnar sections of the Upper Cretaceous of China		Liu Xun
			Fu Derong
113-114	Palaeogeographic map of the late Early Cretaceous of China	1:12 000 000	Liu Xun
			Fu Derong
115	Sketch map showing the distribution of the Early Cretaceous volcanic rocks in the eastern part of China	1:18 000 000	Liu Xun
115	Sketch map showing the distribution of the Late Cretaceous volcanic rocks in the eastern part of China	1:18 000 000	Liu Xun
116	Sketch map showing the Early Cretaceous climatic belts of China	1:25 000 000	Liu Xun
116	Sketch map showing the Late Cretaceous climatic belts of China	1:25 000 000	Liu Xun
117-118	Palaeogeographic map of the Late Cretaceous of China	1:12 000 000	Liu Xun
			Fu Derong
119	Palaeotectonic map of China in the Yanshanian Stage	1:18 000 000	Liu Xun
120	Outcrop map of the Lower Tertiary (Palaeogene) of China	1:18 000 000	Zhou Zhengguo
121-122	Palaeogeographic map of the Early Tertiary of China	1:12 000 000	Zhou Zhengguo
123	Columnar sections of the Lower Tertiary of China		Zhou Zhengguo
124	Outcrop map of the Upper Tertiary (Neogene) of China	1:18 000 000	Chu Xuchun
125-126	Palaeogeographic map of the Late Tertiary of China	1:12 000 000	Chu Xuchun
127	Columnar sections of the Upper Tertiary of China		Chu Xuchun
128	Sketch profiles showing the Early Tertiary sedimentation of China		Zhou Zhengguo
128	Sketch profiles showing the Late Tertiary sedimentation of China		Chu Xuchun
129	Palaeotectonic map of China in the Himalayan Stage	1:18 000 000	Chu Xuchun
			Zhou Zhengguo
130	Sketch map showing the Early Tertiary climatic belts of China	1:25 000 000	Liu Xun
130	Sketch map showing the Late Tertiary climatic belts of China	1:25 000 000	Chu Xuchun
131	Legends of palaeogeographic maps of the Quaternary of China		Min Longrui
			Chen Huahui
			Zhao Liangzheng
			Guan Kangnian
132	Outcrop map of the Pleistocene of China	1:18 000 000	Min Longrui
			Fan Hui
133-134	Palaeogeographic map of the Early Pleistocene of China	1:12 000 000	Chen Huahui
			Min Longrui
			Zhao Liangzheng
			Guan Kangnian

135-136	Profiles showing the Pleistocene geomorphology and deposits of China		Guan Kangnian Chen Huahui Min Longrui Fan Hui
137-138	Palaeogeographic map of the Middle and Late Pleistocene of China	1:12 000 000	Min Longrui Chen Huahui Zhao Liangzheng Guan Kangnian
139	Map showing the distribution of the Quaternary glaciation of China	1:18 000 000	Min Longrui
140	Schematic profiles showing the crustal development from Qamdo, Xizang to Baytik Mt. Xinjiang (cover strata not shown)		Wang Hongzhen
140	Schematic profiles showing the crustal development from Batang, Sichuan to Yushan, Taiwan (cover strata not shown)		Wang Hongzhen
141-142	An outline map showing the geotectonic units of China	1:18 000 000	Wang Hongzhen Ma Lifang
143	Schematic profiles showing the crustal development from Bose, Guangxi to Linxi, Nei Mongol (cover strata not shown)		Wang Hongzhen
143	Schematic profiles showing the crustal development from Dirangzong, Xizang to Karamay, Xinjiang (cover strata not shown)		Wang Hongzhen
1-85	Explanation of the "Atlas of the Palaeogeography of China"		
1-28	English explanation of the "Atlas of the Palaeogeography of China"		
1-25	Appendix: I. Index of data localities used in outcrop maps of the various periods		
	II. Index of stratigraphic unit names of the various periods		

通用图例

GENERAL LEGENDS

古地理图

FOR PALAEOGEOGRAPHIC MAPS

I. 古地理环境

PALAEOGEOGRAPHIC ENVIRONMENTS

一、沉积区 SEDIMENTATION REGIONS

1. 陆相沉积区

terrestrial regions

- 一般陆相沉积或未分
terrestrial in general or undifferentiated
- 干旱陆相沉积区
arid terrestrial
- 潮湿陆相沉积区
humid terrestrial

2. 海相沉积区

marine regions

- 滨海及浅海
littoral and shallow seas
- 深浅海、半深海上部及未分海域
deeper shallow seas, upper bathyal seas and undifferentiated marine regions
- 半深海及大陆坡下部
lower bathyal seas, lower part of continental slopes
- 深海及洋盆
abyssal seas and oceanic basins

3. 海陆过渡沉积区

transitional regions

- 近海沉积盆地及海陆交互沉积区
onshore subsiding basins and paralic areas

二、剥蚀区

EROSIONAL REGIONS

- 古陆、隆起剥蚀区(古生代及以前)
oldlands, uplifted erosional regions (for Paleozoic and older)
- 低地、丘陵及低山(中生代及以后)
lowlands, hilly regions and low ranges (for Mesozoic and later)
- 低山及中高山系(中生代及以后)
low ranges, median & high mountains (for Mesozoic and later)

三、沉积类型

SEDIMENTARY TYPES

- 稳定类型: a) 陆表海, 陆南海沉积;
b) 内陆开盆地河湖沉积
stable type: epicontinental & continental shelf seas; inland open basin flu. and lac. deposits
- 过渡类型: a) 大陆坡上部、边缘海;
b) 大陆内部沉陷带沉积
intermediate type: upper part of continental slope, marginal sea; intracontinental large subsiding zone deposits
- 活动类型: a) 岛弧海、海槽、b) 大陆边缘海带、山前磨拉石沉积
mobile type: island arc sea, sea trough; continental margin volcanic zone, piedmont molasse deposits

II. 地壳消减带及断裂 CRUSTAL CONSUMPTION ZONES AND FAULTS (BROKEN LINES INFERRED)

- 后期地壳消减带
subsequent crustal consumption zones
- 海城扩张带
sea floor spreading zones
- 地壳俯冲带
crustal subduction zones
- 地壳叠接消减带
accretional crustal consumption zones
- 地壳对接消减带
convergent crustal consumption zones
- 后期平移断裂
subsequent transcurrent faults
- 同沉积断裂
syndepositional faults
- 裂谷带、裂陷带
rift zones and aulacogens

III. 火山活动 (叠加符号)

VOLCANIC ACTIVITIES (SUPERPOSED)

- 玄武岩、基性火山岩
basalt, basic volcanics
- 中性基性火山岩
median-basic volcanics
- 安山岩、中性火山岩
andesite, median volcanics
- 中酸性火山岩
median-acidic volcanics
- 流纹岩、酸性火山岩
rhyolite, acidic volcanics
- 粗面岩、偏碱性火山岩
trachyte, sub-alkaline volcanics

IV. 其它 OTHERS

- 海岸线及沉积盆地界线
sea shore lines and sedimentary basin boundaries
- 地层沉积组合界线: a) 海相, b) 陆相
sedimentary association boundaries: a) marine, b) terrestrial
- 海进方向
direction of transgressions
- 碎屑搬运方向
direction of sediment transportation
- 海底隆起界线
submarine uplifts boundaries
- 生物礁
bioreefs
- 石膏、岩盐
gypsum & rock salt

古构造图

FOR PALAEOTECTONIC MAPS

- 后期地壳消减带
subsequent crustal consumption zones
- 海城扩张带
sea floor spreading zones
- 地壳俯冲带
crustal subduction zones
- 地壳叠接消减带
accretional crustal consumption zones
- 地壳对接消减带
convergent crustal consumption zones
- 后期大型平移断裂
subsequent transcurrent faults
- 同沉积断裂或基底断裂
syndepositional and basement fault
- 裂谷带、裂陷带
rift zones and aulacogens
- 构造单元界线
boundaries of tectonic units
- 构造域界线
boundaries of tectonic domains
- 中酸性侵入岩
median-acidic intrusive rocks
- 超基性岩
ultrabasic rocks
- 混杂堆积或滑塌堆积
melanges or olistostomes
- 变质带
metamorphic zones
- 中性基性火山岩
median-basic volcanics
- 中酸性火山岩
median-acidic volcanics
- 偏碱性火山岩
sub-alkaline volcanics
- 构造单元编号
number of tectonic units

柱状剖面图及沉积示意剖面图 FOR COLUMNAR SECTIONS AND SKETCH PROFILES

岩性

LITHOLOGY

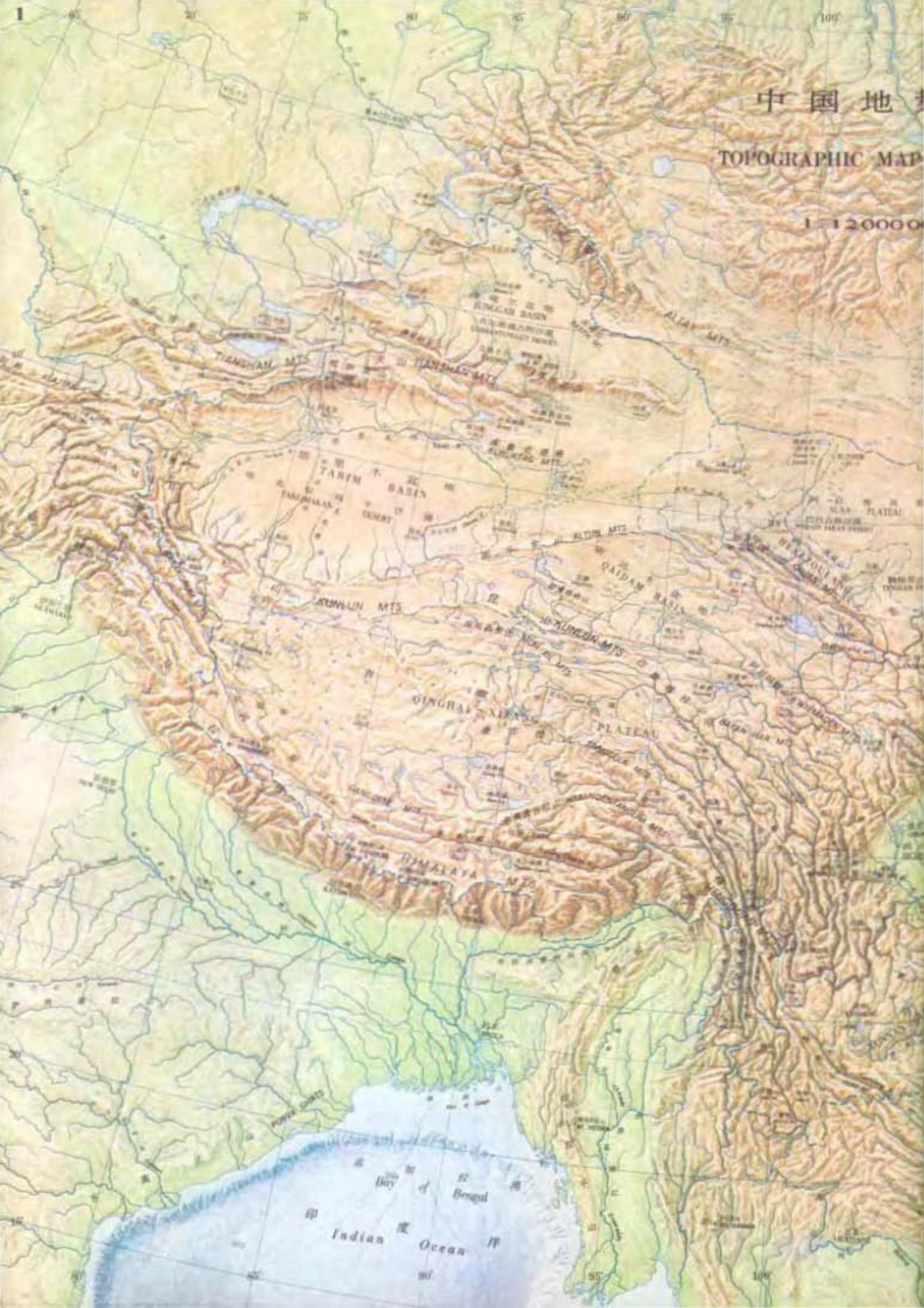
 角砾岩 breccia	 硅质灰岩 siliceous limestone	 石英片岩 quartz schist
 砾岩 conglomerate	 鲕状灰岩 oolitic limestone	 绿泥石英片岩 chlorite-quartz schist
 砂砾岩 sandy conglomerate	 竹叶状灰岩 wurmalk	 黑云母斜长片麻岩 biotite-plagioclase gneiss
 含砾砂岩 pebbly sandstone	 瘤状灰岩 nodular limestone	 玄武岩 basalt
 冰碛岩 tiltite	 藻类灰岩或叠层石灰岩 algae or stromatolitic limestone	 中基性火山岩 medium-basic volcanics
 砂岩 sandstone	 生物灰岩 biogenic limestone	 安山岩 andesite
 长石石英砂岩 arkosic quartz sandstone	 白云岩 dolomite	 中酸性火山岩 medium-acidic volcanics
 石英砂岩 quartz sandstone	 白云质灰岩 dolomitic limestone	 流纹岩 rhyolite
 海绿石砂岩 glaucinitic sandstone	 泥灰岩 marl	 粗面岩 trachyte
 硬砂岩 greywacke	 硅质岩 siliceous rocks	 凝灰岩 tuff
 粉砂岩 siltstone	 变质砾岩 metaconglomerate	 酸性火山角砾岩 acidic agglomerate
 泥岩 mudstone	 变质砂岩 metasandstone	 土状堆积 carbhy deposits
 粉砂质泥岩 silty mudstone	 石英岩 quartzite	 煤层 coal seams
 页岩 shale	 板岩 slate	 油页岩 oil shale
 砂质页岩 sandy shale	 硅质板岩 siliceous slate	 石膏层 gypsum beds
 炭质页岩 carbonaceous shale	 炭质板岩 carbonaceous slate	 盐层 salt beds
 灰岩 limestone	 大理岩 marble	 赤(褐)铁矿层 hematite (limonite) beds
 泥质灰岩 argillaceous limestone	 千枚岩 phyllite	 菱铁矿层 siderite beds
 砂质灰岩 sandy limestone	 片岩 schist	

化石, 特征矿物、岩石及其它

FOSSILS, CHARACTERISTIC MINERALS AND ROCKS, AND OTHERS

 孢子 spores	 黄铁矿, 海绿石 pyrite, glauconite	 接触关系不明及断层接触 contact unclear & fault contact
 植物 plants	 含锰沉积 Mn-bearing deposits	 68 地层厚度(单位: 米) thickness (in m.)
 脊椎动物 vertebrates	 含铁沉积 Fe-bearing deposits	 (75) 资料点号 data locality number
 鱼类 fishes	 含磷沉积 P-bearing deposits	 断层 faults
 无脊椎动物 invertebrates	 整合接触 conformable contact	 广海分隔 separation by open seas
 石膏, 岩盐 gypsum, rock salt	 平行不整合及角度不整合接触 disconformable & unconformable contact	 洋壳及残余洋壳 oceanic crust & residues

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势图
OF CHINA



地质年代及中国地壳发展简表

GEOLOGIC TIME SCALE AND CRUSTAL DEVELOPMENT OF CHINA

地质年代及年龄值(百万年) Geochronology & isotopic ages (m.y.)		构造阶段及造山运动 Tectonic stages and orogenic movements		主要地质事件 Main geologic events		劳亚大陆构造运动 Tectonic movements of Laurasia	
地质年代 Geological Period	年龄值 Isotopic ages (m.y.)	构造阶段及造山运动 Tectonic stages and orogenic movements		主要地质事件 Main geologic events		劳亚大陆构造运动 Tectonic movements of Laurasia	
		联合古陆 (冈瓦纳) Megastage of dissociation of Pangaea (Gondwana)	喜马拉雅阶段 Himalayan Stage	喜马拉雅运动 2 Himalayan Mvt. 2	青藏高原升起 Upheaval of Qinghai-Xizang (Tibet) plateau 南海再度张裂 reopening of South China Sea	欧洲 Europe	北美 N. America
新生代 Cenozoic	第四纪 Quaternary	联合古陆 (冈瓦纳) Megastage of dissociation of Pangaea (Gondwana)	喜马拉雅阶段 Himalayan Stage	喜马拉雅运动 2 Himalayan Mvt. 2	青藏高原升起 Upheaval of Qinghai-Xizang (Tibet) plateau 南海再度张裂 reopening of South China Sea	撒夫运动 Savian	拉拉米运动 Laramidian
	晚第三纪 Neogene			喜马拉雅运动 1 Himalayan Mvt. 1	喜马拉雅与冈底斯接合碰撞 Coalescence & collision of Himalaya & Gangdisé		
中生代 Mesozoic	早第三纪 Palaeogene	联合古陆 (冈瓦纳) Megastage of dissociation of Pangaea (Gondwana)	喜马拉雅阶段 Himalayan Stage	喜马拉雅运动 1 Himalayan Mvt. 1	喜马拉雅与冈底斯接合碰撞 Coalescence & collision of Himalaya & Gangdisé	比利牛斯运动 Pyrenean	拉拉米运动 Laramidian
	白垩纪 Cretaceous			燕山运动 3 Yanshanian Mvt. 3	南海开始张裂 first opening of South China Sea		
中生代 Mesozoic	侏罗纪 Jurassic	联合古陆 (冈瓦纳) Megastage of dissociation of Pangaea (Gondwana)	燕山阶段 Yanshanian Stage	燕山运动 2 Yanshanian Mvt. 2	中国东部环太平洋陆缘活化 Activation of E. China Circum-Pacific continental margin	晚西里运动 L. Cimmerian	内华达运动 Nevadian
	三叠纪 Triassic			燕山运动 1 Yanshanian Mvt. 1	羌塘、冈底斯接合碰撞 Coalescence & collision of Qiangtang-Gangdisé		
晚古生代 L. Palaeozoic	二叠纪 Permian	联合古陆 (劳亚大陆) 形成阶段 Megastage of formation of Pangaea (Laurasia)	海西 (华力西) 印支阶段 Hercynian (Variscan)-Indosinian Stage	晚印支运动 L. Indosinian Mvt.	扬子地台与北方大陆区对接形成古亚洲大陆 Convergence of Yangtze platform & northern continents to form Palasia (Laurasia)	早西里运动 E. Cimmerian	普法尔兹运动 Pfalzian
	石炭纪 Carboniferous			早印支运动 F. Indosinian Mvt.	扬子地台与北方大陆区对接形成古亚洲大陆 Convergence of Yangtze platform & northern continents to form Palasia (Laurasia)		
晚古生代 L. Palaeozoic	泥盆纪 Devonian	联合古陆 (劳亚大陆) 形成阶段 Megastage of formation of Pangaea (Laurasia)	海西 (华力西) 印支阶段 Hercynian (Variscan)-Indosinian Stage	晚海西运动 L. Hercynian Mvt.	华北与西伯利亚、蒙古大陆对接 Convergence of N. China & Siberian-Mongolian continents	苏台德运动 Sudetic	阿帕拉契运动 Appalachian
	志留纪 Silurian			早海西 (天山) 运动 E. Hercynian (Tianshanian) Mvt.	冈瓦纳占大陆北缘破碎, 喜马拉雅、冈底斯之间开裂 Fragmentation of N. border of Gondwana, opening between Himalaya & Gangdisé		
早古生代 E. Palaeozoic	奥陶纪 Ordovician	联合古陆 (劳亚大陆) 形成阶段 Megastage of formation of Pangaea (Laurasia)	加里东阶段 Caledonian Stage	晚加里东 (祁连) 运动 L. Caledonian (Qilianian) Mvt.	扬子地台西缘开裂 Disruption of W. border of Yangtze platform	布列东运动 Bretonian	阿卡德运动 Acadian
	寒武纪 Cambrian			中加里东运动 M. Caledonian Mvt.	祁连海域封闭, 华南加里东区增生固结 Closing of Qilian troughs, accretion & consolidation of S. China Caledonides		
晚元古代 L. Proterozoic	震旦纪 Sinian	地台形成阶段 Megastage of formation of platforms	晋宁阶段 Jinning Stage	早加里东 (兴凯) 运动 E. Caledonian (Xingkaian) Mvt.	松辽、羌塘等中间地块形成 Formation of Songliao & Qiangtang median massifs etc.	伊利运动 Erian	太康运动 Taconian
	青白口时期 Qingbaikouan			晋宁运动 Jinningian Mvt.	松辽、羌塘等中间地块形成 Formation of Songliao & Qiangtang median massifs etc.		
中元古代 M. Proterozoic	熊耳时期 Xiongerian	地台形成阶段 Megastage of formation of platforms	晋宁阶段 Jinning Stage	四堡运动 Sibaon Mvt.	华北 (中朝)、扬子等地台及柴达木中间地块等形成 Formation of N. China (Sino-Korean), Yangtze platforms & Qaidam median massif, etc.	哥德运动 Gothian	格林威尔运动 Grenvillean
	南口时期 Nankouan			中岳运动 Zhongyuean Mvt.	华北 (中朝)、扬子等地台及柴达木中间地块等形成 Formation of N. China (Sino-Korean), Yangtze platforms & Qaidam median massif, etc.		
早元古代 E. Proterozoic	长城时期 Changchengian	地台形成阶段 Megastage of formation of platforms	吕梁阶段 Luliangian Stage	吕梁 (中条) 运动 Luliangian (Zhongtiaolan) Mvt.	华北 (中朝) 及塔里木原地台形成 Formation of N. China (Sino-Korean) & Tarim protoplatforms	卡瑞里运动 Karchian	赫德逊运动 Hudsonian
	浑沱时期 Hutuoan			五台运动 Wutai Mvt.	华北 (中朝) 及塔里木原地台形成 Formation of N. China (Sino-Korean) & Tarim protoplatforms		
太古代 Archaean	阜平时期 Fupingian	陆核形成阶段 Megastage of formation of continental nuclei	阜平阶段 Fupingian Stage	阜平运动 Fupingian Mvt.	鄂尔多斯及冀鲁陆核形成 Formation of Ordos & Ji-Lu continental nuclei	白海运动 Belomorian	肯诺尔运动 Kenoran
	冥古代 Hadean				鄂尔多斯及冀鲁陆核形成 Formation of Ordos & Ji-Lu continental nuclei		

中国中、上元古界露头分布图

(前震旦系)

OUTCROP MAP OF THE MIDDLE AND UPPER
PROTEROZOIC (PRE-SINIAN) OF CHINA

1:18 000 000

中、上元古界 (中、上元古界露头)
Middle to Upper Proterozoic (pre-Sinian)

点状符号
point symbols

资料点及编号
locality & number of data used

资料点及编号
locality & number of data used

钻孔
bore holes

钻孔
bore holes

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bore holes

5 华北中元古代(长城期 18.5-17 亿年)古地理图
PALAEOGEOGRAPHIC MAP OF THE MIDDLE PROTEROZOIC
(CHANGCHENGIAN 1850-1700 m.y.BP) OF NORTH CHINA



华北中元古代(南口期 17—14 亿年)古地理图
PALAEOGEOGRAPHIC MAP OF THE MIDDLE PROTEROZOIC
(NANKOUAN 1700—1400 m.y. BP) OF NORTH CHINA



5 华北中元古代(长城期 18.5—17 亿年)古地理图
PALAEOGEOGRAPHIC MAP OF THE MIDDLE PROTEROZOIC
(CHANGCHENGIAN 1850—1700 my.BP) OF NORTH CHINA



华北中元古代(南口期 17—14 亿年)古地理图
PALAEOGEOGRAPHIC MAP OF THE MIDDLE PROTEROZOIC
(NANKOUAN 1700—1400 m.y. BP) OF NORTH CHINA

