

SIMPLIFIED GEOLOGICAL MAP OF THE REPUBLIC OF SOUTH AFRICA AND THE KINGDOMS OF LESOTHO AND SWAZILAND

2008

1:2 000 000

0 50 100 150 200 250 300 Kilometers

Projection: Albers Equal Area
Central meridian: 24° E
Standard parallels: 20° S, 30° S

BOTSWANA

ZIMBABWE

MOZAMBIQUE

NAMIBIA

LESOTHO

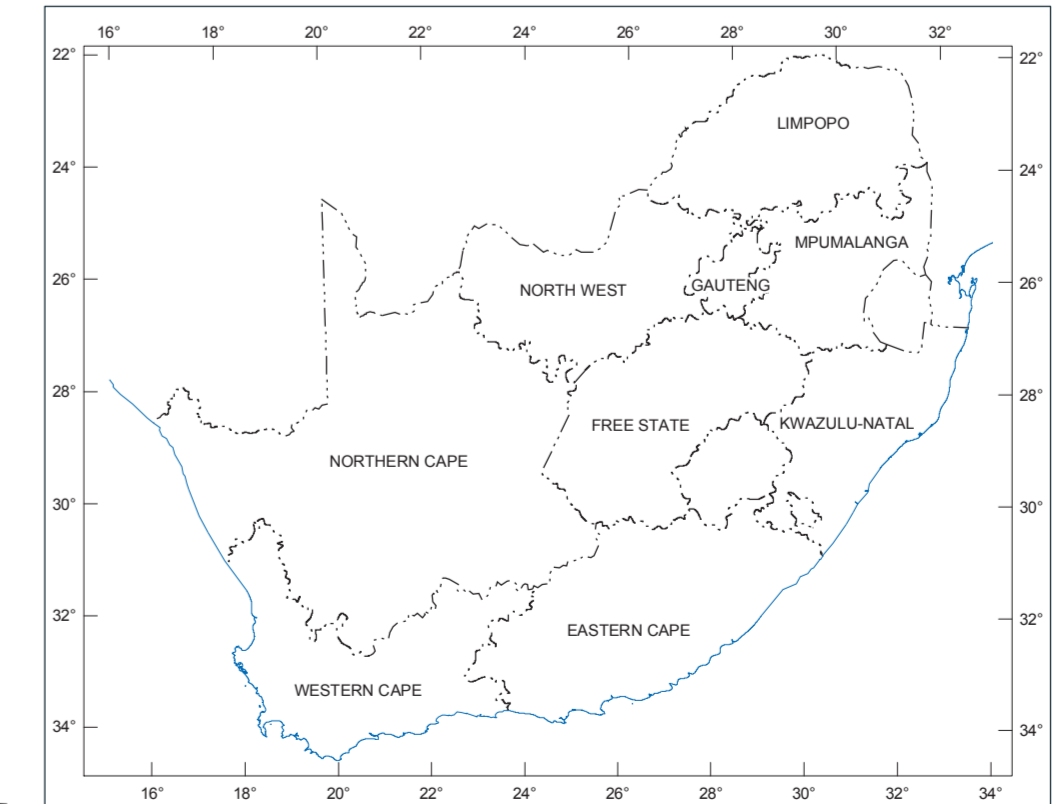
EXPLANATORY NOTES

This simplified geological map is based on the digital data of the published 1:1 000 000-scale geological map of the Republic of South Africa and the Kingdoms of Lesotho and Swaziland (Council for Geoscience, 1997). Lithostratigraphic attributes have been updated in places, where applicable, and have been assembled into larger groupings appropriate to the scale of this compilation. All the original lithostratigraphic boundaries of the 1:1 000 000-scale map have, however, been retained for the benefit of those who might require more detail in certain areas; a copy of the 1:1 000 000-scale map will obviously be needed to provide the names of those stratigraphic units which are no longer shown separately on this map.

Since the 1:1 000 000-scale map was last revised in 1997, the most recent mapping is not reflected here. This problem is only really significant as far as the Namaqualand Metamorphic Province west of 20° E is concerned, where extensive remapping has taken place in the past decade. The results are still in the process of being compiled and printed on 1:250 000-scale maps. As far as the stratigraphy of the rest of the country is concerned, not much has changed since 1997, although the geology west of Mafika (in the Central Zone of the Limpopo Belt) as shown on this map does take into account certain recent developments.

The only structural data retained from the 1:1 000 000-scale map are the faults, since these often form the boundaries between different stratigraphic units. The main towns, provincial boundaries and dams are also shown, but all other geographic features have been omitted in order to keep the map clear of unnecessary detail. As has now become traditional on compilations of this kind, the geological features of Lesotho and Swaziland are included, since omitting these would significantly reduce the usefulness of the map; appropriate acknowledgement is given on the 1:1 000 000-scale map from which this one is derived.

KEY TO PROVINCES



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Copies of the Map (also in digital format) are obtainable from the Council for Geoscience, Private Bag X112, Pretoria, 0001, <http://www.geoscience.org.za>
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SEDIMENTARY AND VOLCANIC ROCKS

ERA	PERIOD	FORMATION	COMPLEX	SUITE	OTHER UNITS
CENOZOIC	QUATERNARY	Q1	Q1	Q1	Q1
		Q2	Q2	Q2	Q2
CENOZOIC	TERTIARY	Q3	Q3	Q3	Q3
		Q4	Q4	Q4	Q4
MESOZOIC	CRETACEOUS	Q5	Q5	Q5	Q5
		Q6	Q6	Q6	Q6
MESOZOIC	TRIASSIC	Q7	Q7	Q7	Q7
		Q8	Q8	Q8	Q8
MESOZOIC	PERMIAN	Q9	Q9	Q9	Q9
		Q10	Q10	Q10	Q10
MESOZOIC	CARBONIFEROUS	Q11	Q11	Q11	Q11
		Q12	Q12	Q12	Q12
MESOZOIC	DEVONIAN	Q13	Q13	Q13	Q13
		Q14	Q14	Q14	Q14
MESOZOIC	ORDOVICIAN	Q15	Q15	Q15	Q15
		Q16	Q16	Q16	Q16
MESOZOIC	SILURIAN	Q17	Q17	Q17	Q17
		Q18	Q18	Q18	Q18
MESOZOIC	PRÆCAMBRIAN	Q19	Q19	Q19	Q19
		Q20	Q20	Q20	Q20
MESOZOIC	PROTEROZOIC	Q21	Q21	Q21	Q21
		Q22	Q22	Q22	Q22
MESOZOIC	ARCHAIC	Q23	Q23	Q23	Q23
		Q24	Q24	Q24	Q24

INTRUSIVE ROCKS

Q25	Q25	Q25	Q25	Q25	Q25
Q26	Q26	Q26	Q26	Q26	Q26
Q27	Q27	Q27	Q27	Q27	Q27
Q28	Q28	Q28	Q28	Q28	Q28
Q29	Q29	Q29	Q29	Q29	Q29
Q30	Q30	Q30	Q30	Q30	Q30
Q31	Q31	Q31	Q31	Q31	Q31
Q32	Q32	Q32	Q32	Q32	Q32
Q33	Q33	Q33	Q33	Q33	Q33
Q34	Q34	Q34	Q34	Q34	Q34
Q35	Q35	Q35	Q35	Q35	Q35
Q36	Q36	Q36	Q36	Q36	Q36
Q37	Q37	Q37	Q37	Q37	Q37
Q38	Q38	Q38	Q38	Q38	Q38
Q39	Q39	Q39	Q39	Q39	Q39
Q40	Q40	Q40	Q40	Q40	Q40
Q41	Q41	Q41	Q41	Q41	Q41
Q42	Q42	Q42	Q42	Q42	Q42
Q43	Q43	Q43	Q43	Q43	Q43
Q44	Q44	Q44	Q44	Q44	Q44
Q45	Q45	Q45	Q45	Q45	Q45
Q46	Q46	Q46	Q46	Q46	Q46
Q47	Q47	Q47	Q47	Q47	Q47
Q48	Q48	Q48	Q48	Q48	Q48
Q49	Q49	Q49	Q49	Q49	Q49
Q50	Q50	Q50	Q50	Q50	Q50

DOMINANT LITHOLOGY(IES)

Q51	Q51	Q51	Q51	Q51	Q51
Q52	Q52	Q52	Q52	Q52	Q52
Q53	Q53	Q53	Q53	Q53	Q53
Q54	Q54	Q54	Q54	Q54	Q54
Q55	Q55	Q55	Q55	Q55	Q55
Q56	Q56	Q56	Q56	Q56	Q56
Q57	Q57	Q57	Q57	Q57	Q57
Q58	Q58	Q58	Q58	Q58	Q58
Q59	Q59	Q59	Q59	Q59	Q59
Q60	Q60	Q60	Q60	Q60	Q60
Q61	Q61	Q61	Q61	Q61	Q61
Q62	Q62	Q62	Q62	Q62	Q62
Q63	Q63	Q63	Q63	Q63	Q63
Q64	Q64	Q64	Q64	Q64	Q64
Q65	Q65	Q65	Q65	Q65	Q65
Q66	Q66	Q66	Q66	Q66	Q66
Q67	Q67	Q67	Q67	Q67	Q67
Q68	Q68	Q68	Q68	Q68	Q68
Q69	Q69	Q69	Q69	Q69	Q69
Q70	Q70	Q70	Q70	Q70	Q70
Q71	Q71	Q71	Q71	Q71	Q71
Q72	Q72	Q72	Q72	Q72	Q72
Q73	Q73	Q73	Q73	Q73	Q73
Q74	Q74	Q74	Q74	Q74	Q74
Q75	Q75	Q75	Q75	Q75	Q75
Q76	Q76	Q76	Q76	Q76	Q76
Q77	Q77	Q77	Q77	Q77	Q77
Q78	Q78	Q78	Q78	Q78	Q78
Q79	Q79	Q79	Q79	Q79	Q79
Q80	Q80	Q80	Q80	Q80	Q80
Q81	Q81	Q81	Q81	Q81	Q81
Q82	Q82	Q82	Q82	Q82	Q82
Q83	Q83	Q83	Q83	Q83	Q83
Q84	Q84	Q84	Q84	Q84	Q84
Q85	Q85	Q85	Q85	Q85	Q85
Q86	Q86	Q86	Q86	Q86	Q86
Q87	Q87	Q87	Q87	Q87	Q87
Q88	Q88	Q88	Q88	Q88	Q88
Q89	Q89	Q89	Q89	Q89	Q89
Q90	Q90	Q90	Q90	Q90	Q90
Q91	Q91	Q91	Q91	Q91	Q91
Q92	Q92	Q92	Q92	Q92	Q92
Q93	Q93	Q93	Q93	Q93	Q93
Q94	Q94	Q94	Q94	Q94	Q94
Q95	Q95	Q95	Q95	Q95	Q95
Q96	Q96	Q96	Q96	Q96	Q96
Q97	Q97	Q97	Q97	Q97	Q97
Q98	Q98	Q98	Q98	Q98	Q98
Q99	Q99	Q99	Q99	Q99	Q99
Q100	Q100	Q100	Q100	Q100	Q100