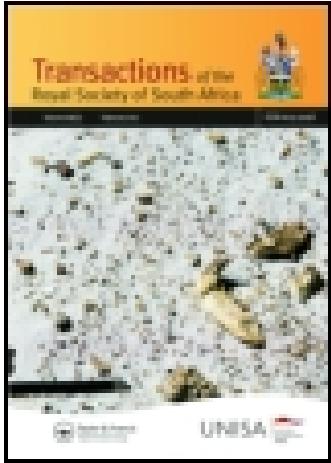


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TRUE ISOGONICS, ISOCLINALS, AND LINES OF HORIZONTAL INTENSITY FOR THE NORTH-WESTERN PARTS OF THE UNION OF SOUTH AFRICA AND FOR PART OF GREAT NAMAQUALAND FOR THE EPOCH JULY 1, 1908

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(57)

TRUE ISOGENICS, ISOCLINALS, AND LINES OF HORIZONTAL INTENSITY FOR THE NORTH-WESTERN PARTS OF THE UNION OF SOUTH AFRICA AND FOR PART OF GREAT NAMAQUALAND FOR THE EPOCH JULY 1, 1908.

By J. C. BEATTIE, D.Sc., Professor of Physics, South African College,
Cape Town.

(Read July 16, 1913.)

(With Three Maps, Plates III., IV., V.)

The results used in the preparation of the magnetic charts * given in the following paper were obtained at various times from 1900 to 1913; the earlier observations in the south-west part of the Cape Province had already been used in preparing magnetic charts for the epoch July 1, 1903; † these have been reduced to the later epoch by using the values obtained at repeat stations at Cape Town, Ceres Road, and Matjesfontein. Some of the observations in the Kenhardt, Carnarvon, Fraserburg, Sutherland, Prince Albert, and Beaufort West districts had also been used, and these were reduced to the new epoch by repeat observations at Fraserburg Road, Beaufort West, Hutchinson, Van Wyk's Vlei, and Kenhardt; the previously used results in the Transvaal and the Free State were reduced by the help of repeat observations at Karree, Warrenton, Mafeking, Klerksdorp, and Orange River. The new results embodied in the present charts lie chiefly in the north-west of the Cape Province, in German South-West Africa, ‡ and in Bushmanland; in addition a number of additional stations were occupied in the Western Transvaal and in British

* The work has been carried out with the help of grants in aid from the Union Government, the London Royal Society, the British and the South African Associations for the Advancement of Science.

† "Report of a Magnetic Survey of South Africa," by J. C. Beattie. London, 1909.

‡ "On Magnetic work in Southern and Central Africa," by J. C. Beattie and J. T. Morrison. Washington, 1913.

Bechuanaland.* To reduce the new observations to the epoch repeat stations were made at Eendekuil, Hollerivier, Aggennys, and Pella.

In the following table the various stations are arranged in alphabetical order. The number of each station is given in the first column, the name is given in the second, and in the third, fourth, fifth, sixth, and seventh columns are given the latitude, the longitude, the declination, the dip, and the intensity respectively.

The values of the declination, the dip, and the horizontal intensity have been obtained from the actual field results by applying a secular variation correction; in no case has a correction for daily variation been applied. The observations without secular correction are given in the publications already referred to.

The results are shown in three maps, one showing the isogonics, one the isoclinals, and the third the lines of equal horizontal intensity; the method of drawing the isomagnetic lines is that described on page 82 of a "Report of a Magnetic Survey of South Africa."

* "Further Magnetic Observations in South Africa," by J. C. Beattie, *Transactions of the Royal Society of South Africa*, vol. iii., 1913.

SUMMARY OF RESULTS FOR THE EPOCH, JULY 1, 1908.

No.	Station Name.	Latitude.	Longitude.	Declination (D).	Dip (θ).	Horizontal Intensity (H).
1 ³	Abelsdam	27°37'·1 S.	26°30' E.	22°43'·0 W.	59°35'·2 S.	·18345
2 ¹	Abbasis	28 54·0	18 30	—	57 44·2	·18592
3 ²	Abiekwa Put	30 22·0	20 46	26 04·5	59 01·1	·18202
4 ¹	Aggennys	29 12·9	18 49	26 22·7	58 07·5	·18328
5 ¹	Alewynsfontein	30 26·6	18 36	26 24·3	58 41·8	·18219
6 ³	Ashton	33 50·0	20 04	—	60 18·3	·17678
7 ¹	Augsburg	32 10·4	18 53	27 26·0	59 12·8	·18061
8 ¹	Aus. C.P.	29 12·9	17 48	26 16·9	57 32·1	·18627
9 ¹	Aus. G.S.W.	26 40·3	16 12	25 14·7	55 11·7	·19408
10 ³	Baviaanskantz	27 23·0	26 47	26 55·2	59 14·2	·18468
11 ³	Beaufort West	32 20·9	22 34	26 26·6	60 20·2	·17745
12 ²	Beaulieu	26 14·5	24 14	22 31·9	57 40·0	·19050
13 ³	Belleville	33 49·0	18 39	—	59 49·4	·17812
14 ²	Beukesfontein	32 55·1	19 43	27 54·8	59 56·2	·17854
15 ³	Berg River Mouth	32 46·5	18 10	27 30·9	59 07·4	·18000
16 ³	Biesjespoort	31 43·8	23 12	24 06·4	59 53·9	·17989
17 ³	Blaauwbosch	30 38·9	22 14	25 52·7	59 30·2	·18061
18 ²	Blaauwpoort	30 39·2	21 42	25 55·7	59 11·9	·18137
19 ²	Boons	25 57·9	27 18	21 17·6	58 22·5	·19025
20 ³	Boschrand	27 45·8	27 12	22 44·8	59 39·0	·18396
21 ¹	Brak Rivier	31 15·6	19 30	26 51·6	58 55·1	·18217
22 ³	Bredasdorp	34 32·2	20 08	27 52·9	60 33·7	·17577
23 ³	Breekkerrie	30 06·7	21 35	26 31·7	58 59·1	·18095
24 ²	Bretby	27 50·1	23 31	36 52·4	49 59·5	·20564
25 ³	Britstown	30 35·0	23 33	25 47·5	59 43·6	·17661
26 ²	Bruwer's Farm	26 18·7	24 36	22 50·9	58 04·6	·18985
27 ²	Bry Paal	29 10·0	20 28	25 48·4	58 17·3	·18001
28 ¹	Buchholzbrunn	26 41·6	17 04	24 23·3	55 19·5	·19488
29 ²	Buckwheat	26 02·7	25 11	22 45·6	57 35·5	·19080
30 ¹	Bulshoek	31 58·7	18 47	27 15·3	59 02·4	·18014
31 ³	Bushmanskopp	32 20·8	22 15	26 39·6	60 20·7	·17797
32 ³	Cape Town (Royal Obs.)	33 56·1	18 29	28 03·6	59 45·4	·17805
33 ¹	Ceres	33 22·5	19 15	27 31·0	59 50·2	·17846
34 ¹	Ceres Road	33 25·6	19 19	27 39·1	59 53·6	·17896
35 ³	Connan's Farm	28 58·4	21 19	24 12·8	56 54·2	·19166
36 ¹	Dabai Gabis	23 19·9	18 40	25 20·4	57 06·7	·18867
37 ¹	Dabenoris	28 55·4	18 39	26 15·9	57 34·9	·18638
38 ³	Dambiesfontein	31 24·2	21 18	26 30·2	59 53·9	·17921
39 ³	Darling	33 22·1	18 22	27 40·2	59 33·2	·17915
40 ¹	De Kruis	32 35·7	18 44	27 22·7	59 24·8	·18001
41 ³	De Aar	30 40·0	24 02	25 05·1	59 55·0	·17965
42 ³	De Doorns	33 29·0	19 36	—	60 00·1	·17736
43 ²	De Neus	29 11·3	19 39	25 46·8	58 08·9	·18100
44 ¹	Dickdoorn	25 30·0	17 58	24 27·6	55 12·5	·19509
45 ²	Dingle	27 48·9	22 59	23 34·6	58 09·2	·18698
46 ¹	Doorn River	31 52·1	18 41	27 08·7	59 00·4	·18110
47 ¹	Downes	31 30·4	19 55	27 00·1	—	·18114
48 ¹	Draaiakraal	31 45·3	19 43	27 11·7	59 19·6	·17959
49 ³	Draghoender	29 22·3	22 07	26 32·8	58 50·1	·18287
50 ³	Drew	33 59·5	20 13	27 41·8	60 28·5	·17678
51 ²	Drooge Grond	29 07·3	20 15	25 46·3	58 33·3	·18338

¹ "On Magnetic Work in Southern and Central Africa," 1908-1909, by J. C. Beattie and J. T. Morrison.² "Further Magnetic Observations in South Africa," by J. C. Beattie.³ "Report of a Magnetic Survey of South Africa," by J. C. Beattie.

SUMMARY OF RESULTS—(continued).

No.	Station Name.	Latitude.	Longitude.	Declination (D.).	Dip (°).	Horizontal Intensity (H.).
52 ¹	Eendekuil	32° 41'·2 S.	18° 52' E.	27° 28'·6 W.	59° 12'·7 S.	·17963
53 ¹	Eenriet	29 11·1	17 50	26 20·9	57 22·8	·18696
54 ²	Elands Put.....	25 58·4	26 21	22 14·7	58 08·3	·19061
55 ³	Elim	34 35·8	19 46	27 57·1	60 32·7	·17630
56 ²	Erasmus.....	27 08·0	24 08	23 36·0	58 20·3	·18822
57 ²	Flatlands	27 33·0	22 58	—	58 18·0	·18579
58 ³	Fraserburg	31 55·2	21 31	26 54·5	59 54·5	·17855
59 ³	Fraserburg Road	32 46·0	22 00	26 34·5	60 35·9	·17769
60 ¹	Gabis	28 08·5	18 34	25 36·9	56 56·8	·18909
61 ¹	Gansfontein	32 43·6	19 42	27 55·0	59 44·2	·17923
62 ¹	Garakanas	26 29·4	18 09	24 48·1	55 50·0	·19382
63 ¹	Garub	26 36·4	16 56	25 08·5	54 54·0	·19485
64 ¹	Gawachab	27 01·8	17 48	26 00·6	56 31·6	·19080
65 ³	Gemsbokfontein.....	31 22·8	22 58	27 06·6	60 05·2	·17891
66 ²	Genesa.....	26 35·4	24 10	22 52·2	57 58·3	·18829
67 ¹	Gibeon	25 07·2	17 42	24 16·5	54 57·4	·19640
68 ³	Glenallen	29 39·0	22 36	47 16·2	42 19·0	·28140
69 ³	Glencairn (Simonstown)	34 10·8	18 26	27 46·0	59 48·9	·17819
70 ¹	Gobas	26 38·0	18 02	—	56 04·3	·19265
71 ³	Gordon's Bay.....	34 08·0	18 55	—	60 03·1	·17683
72 ¹	Grauwater	30 56·4	19 16	26 46·7	58 45·3	·18245
73 ²	Grootfontein B.....	27 39·0	24 00	24 49·7	58 34·2	·18514
74 ³	Grootfontein C.....	33 07·6	21 15	27 31·2	60 39·4	·17554
75 ²	Groot Riet	29 17·5	20 46	25 36·2	58 26·9	·18402
76 ¹	Groot Rozynbosch.....	29 04·8	18 54	25 58·5	57 43·2	·18689
77 ¹	Gründorn	27 25·7	18 15	25 16·5	56 27·6	·18890
78 ²	Hamburg	27 01·4	24 16	23 19·5	58 24·9	·18772
79 ¹	Haribes	24 41·5	17 34	24 09·3	54 33·3	·19735
80 ²	Harrisburg	27 09·0	26 24	22 17·7	58 53·5	·18666
81 ²	Hartebeestfontein	26 45·5	26 24	22 22·2	58 44·8	·18699
82 ²	Henkriesfontein	28 57·2	18 08	26 24·2	57 24·2	·18734
83 ³	Hermanus	34 25·3	19 16	27 57·9	60 15·6	·17708
84 ³	Hermon	33 26·7	18 58	27 44·4	59 45·3	·17851
85 ³	Hex River	32 27·0	18 57	27 26·2	59 12·3	·18046
86 ³	Hoetjes Bay	33 01·0	17 57	27 39·4	59 12·7	·17968
87 ²	Hoezar West	30 07·1	20 27	26 08·1	58 39·9	·18814
88 ²	Hollerivier	31 22·0	19 32	27 02·6	59 20·4	·17995
89 ¹	Holoog	27 24·0	17 44	25 32·6	56 19·0	·19087
90 ³	Honey Nest Kloof	29 12·2	24 33	24 53·4	59 34·0	·18172
91 ³	Hopefield	33 14·4	18 21	27 33·5	59 24·4	·17913
92 ²	Howmoed	29 19·3	19 33	26 08·2	58 13·7	·18071
93 ³	Howhoek	34 12·7	19 10	27 48·8	60 09·3	·17697
94 ³	Huguenot	33 45·3	19 00	27 44·7	59 53·6	·17840
95 ²	Hutchinson	31 29·6	23 15	26 05·4	60 09·4	·17902
96 ²	Kadebis	26 16·6	24 25	—	57 43·7	·19124
97 ¹	Kamabies	30 02·3	18 29	25 59·6	58 41·2	·18187
98 ²	Karmoe	31 44·0	19 18	27 12·9	58 35·8	·18083
99 ¹	Karree	28 52·5	26 21	22 29·8	59 51·3	·18094
100 ¹	Karreebosch	31 34·5	19 54	27 15·3	59 24·4	·18017
101 ³	Kathoek	34 23·3	20 20	27 49·8	60 40·3	·17573
102 ²	Keeley	26 08·6	24 44	23 18·1	57 30·1	·19357

¹ "On Magnetic Work in Southern and Central Africa," 1908-1909, by J. C. Beattie and J. T. Morrison.

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SUMMARY OF RESULTS—(continued).

No.	Station Name.	Latitude.	Longitude.	Declination (D).	Dip (H).	Horizontal Intensity (H).
103 ¹	Keetmanshoop	26°34'·7 S.	18°04' E.	24°53'·1 W.	—	·19308
104 ²	Kenhardt	29 18·0	21 09	25 45·3	58°43'·9 S.	·18467
105 ³	Khamis	27 51·6	18 35	25 32·2	56 52·3	·18947
106 ²	Khosis	27 52·9	23 16	24 22·3	57 55·1	·18828
107 ³	Kimberley	28 43·0	24 46	—	59 15·1	·18179
108 ³	Klerksdorp	26 52·3	26 38	22 45·4	58 45·7	·18509
109 ²	Kliparani	25 59·4	25 22	22 34·5	57 49·2	·19122
110 ³	Klipfontein	30 42·1	22 24	22 24·9	59 54·2	·17905
111 ¹	Klipfontein	29 12·7	17 40	26 09·7	57 35·9	·18656
112 ¹	Koppeskraal	31 04·4	19 28	26 49·0	58 45·3	·18258
113 ¹	Korrobib	25 51·5	18 10	24 50·5	55 27·4	·19456
114 ²	Koster	25 58·0	26 58	21 29·2	58 13·9	·19004
115 ³	Krantz Kop	30 48·8	20 45	26 15·9	59 04·7	·18243
116 ³	Kruispad	32 56·8	20 33	27 35·0	60 25·0	·17712
117 ¹	Kuibis	26 40·7	16 48	24 40·2	55 25·9	·19441
118 ¹	Kumnabis River	25 59·5	18 19	24 55·1	55 37·4	·19450
119 ²	Kuruman	27 27·9	23 25	24 11·9	58 22·7	·18625
120 ¹	Kweekfontein	29 30·0	18 02	26 21·9	57 39·1	·18573
121 ¹	Kye Charp River	25 42·4	18 04	24 39·9	55 20·8	·19493
122 ³	Laat Rivier	29 38·2	21 19	25 44·5	58 51·3	·18357
123 ³	Ladismith C.P.	33 29·0	21 17	27 35·9	60 46·0	·17527
124 ³	L'Agulhas	34 50·0	20 00	27 54·9	60 42·2	·17531
125 ³	Laingsburg	33 12·0	20 52	27 38·2	60 34·4	·17565
126 ¹	Leeuwenfontein	33 17·4	19 30	27 56·0	59 50·5	·17846
127 ²	Leeuw Kolk	30 25·3	21 17	25 54·3	59 02·3	·18219
128 ¹	Leeuwriet	31 28·3	19 20	27 06·0	59 10·7	·18075
129 ²	Levves Kolk	29 35·5	19 50	25 36·5	58 32·7	·18283
130 ³	Letjesbosch	32 34·0	22 18	—	60 15·5	·17884
131 ²	Lichtenburg	26 10·2	26 06	22 23·0	58 22·4	·18887
132 ¹	Loeriesfontein	30 56·9	19 26	26 47·0	58 47·7	·18295
133 ²	Louw Zyn Kolk	30 17·4	21 00	25 47·2	59 09·2	·18150
134 ²	Mafeking	25 52·0	25 39	22 19·2	57 48·9	·19088
135 ²	Magaliesburg	26 00·0	27 37	21 22·3	58 27·6	·18989
136 ³	Malmesbury	33 28·0	18 43	27 41·3	59 44·0	·17799
137 ²	Maquassi	27 20·0	25 59	23 08·6	58 57·6	·18750
138 ³	Maribogo	26 25·1	25 15	22 45·9	57 53·1	·18971
139 ²	Markson's Hotel	25 35·3	26 32	21 41·5	57 52·8	·19198
140 ²	Marokwen	26 07·8	23 44	22 48·2	57 14·7	·19208
141 ²	Matjiesfontein	33 14·2	20 36	27 44·0	60 27·7	·17607
142 ²	Meintjes's Farm	26 04·4	25 02	22 33·6	57 59·3	·18968
143 ³	Merriman	31 13·0	23 38	26 29·7	60 38·5	·17785
144 ³	Middlepost	31 54·2	20 14	26 51·5	59 28·9	·18020
145 ³	Miller's Point	34 14·2	18 26	27 50·4	59 54·5	·17827
146 ¹	Modderfontein	32 36·8	18 59	27 29·8	59 19·7	·17971
147 ¹	Modder River	29 03·0	24 45	21 42·0	59 30·9	·18387
148 ²	Murraysburg	31 56·0	23 43	25 41·1	60 46·1	·17598
149 ²	Namies	29 09·0	19 12	26 17·4	57 46·7	·18586
150 ²	Nanibies	29 51·3	20 05	25 46·2	58 57·1	·18124
151 ³	Nelspoort	32 07·7	23 01	26 52·6	60 54·2	·17338
152 ²	Nieuwefontein	30 36·0	18 41	26 30·8	58 00·0	·18609
153 ¹	O'okiep	29 35·5	17 53	26 28·1	57 29·1	·18696

¹ "On Magnetic Work in Southern and Central Africa," 1908–1909, by J. C. Beattie and J. T. Morrison.² "Further Magnetic Observations in South Africa," by J. C. Beattie.³ "Report of a Magnetic Survey of South Africa," by J. C. Beattie.

SUMMARY OF RESULTS—(continued).

No.	Station Name.	Latitude.	Longitude.	Declination (D.).	Dip. (θ).	Horizontal Intensity (H.).
154 ¹	Oorlogskloof	31° 30' 9 S.	19° 27' E.	27° 19' 2 W.	59° 09' 0 S.	.18050
155 ¹	Orange River	29 38 0	24 16	24 36 2	59 41 2	.18138
156 ²	Ottohoop	25 44 6	26 09	22 05 6	57 51 5	.19076
157 ³	Oudemuur	31 05 8	20 19	26 42 8	59 20 2	.18114
158 ¹	Ougrabies	29 15 5	18 32	26 16 9	57 43 2	.18539
159 ³	Paardevllei	30 36 1	21 54	26 19 2	59 21 0	.18152
160 ³	Pampoenpoort	31 03 5	22 39	26 06 8	59 57 1	.17889
161 ¹	Papekuil	32 27 9	19 40	27 31 2	—	.18026
162 ²	Pella	29 02 0	19 08	26 29 4	57 49 4	.18600
163 ³	Piquetberg	32 55 0	18 43	27 23 7	59 34 3	.17902
164 ¹	Plaatklip	30 47 8	19 06	26 50 1	58 36 1	.18300
165 ²	Pofadder	29 07 0	19 24	26 24 0	58 13 4	.18471
166 ³	Pottfontein	30 12 2	24 07	24 54 0	59 53 7	.17981
167 ¹	Port Nolloth	29 15 6	16 51	26 48 3	57 07 0	.18749
168 ³	Prince Albert	33 13 2	22 03	27 40 4	60 59 3	—
169 ³	Prince Albert Road	32 58 7	21 42	27 14 2	60 54 3	.17537
170 ²	Quaggafontein	29 59 1	20 42	26 04 9	58 52 0	.17833
171 ¹	Rahman's Drift	28 51 9	18 20	26 21 5	57 39 4	.18572
172 ³	Rateldraai	28 45 7	21 18	24 12 2	58 23 3	.18759
173 ³	Rateldrift	31 31 6	20 18	26 54 6	59 28 5	.18004
174 ²	Richmond C.P.	31 25 7	23 56	25 26 9	60 54 2	.17609
175 ¹	Rietfontein	29 52 1	18 12	26 46 6	58 23 2	.18180
176 ³	Rietpoort	31 04 4	20 55	26 16 1	59 32 5	.18089
177 ³	Rifle Range, Simonstown	34 12 0	18 26	27 55 8	59 52 7	.17819
178 ³	Rivierplaats	32 08 5	20 24	26 41 6	59 29 1	.18021
179 ¹	Rivierplaats	31 30 1	19 41	27 00 0	58 56 5	.18311
180 ³	Roadside	30 44 3	20 26	26 15 8	58 55 5	.18299
181 ³	Robertson	33 48 8	19 53	27 39 2	60 18 1	.17691
182 ²	Roodekloof	25 49 7	27 14	21 25 8	58 14 2	.19035
183 ³	Roodepoort	30 13 0	23 22	24 32 7	58 36 3	.18098
184 ³	Roodiam	29 50 7	23 12	24 18 1	59 18 5	.18221
185 ³	Rooiputs	29 17 4	21 39	26 18 7	58 54 3	.18019
186 ³	Rooival	32 12 0	21 58	26 40 9	60 04 8	.17840
187 ¹	Rotkuppe	26 42 4	17 19	25 04 6	55 09 5	.19676
188 ²	Rumsey's Farm	26 24 3	24 03	22 46 2	58 02 3	.19240
189 ²	Rustenburg	25 40 0	27 15	21 01 7	58 12 3	.19038
190 ²	Rystkuil	32 38 7	22 54	26 06 4	60 28 3	.17772
191 ¹	Sabies	29 17 2	17 46	—	57 35 4	—
192 ²	Sanderhaar	26 50 4	17 22	25 22 1	55 52 6	.19222
193 ³	Schietfontein	32 41 7	20 47	27 16 7	60 11 3	.17881
194 ²	Schulenburg	26 25 5	25 58	22 22 0	58 28 3	.18834
195 ¹	Schuurkraal	31 57 0	19 46	26 58 6	59 15 7	.18027
196 ¹	Seeheim	26 48 5	17 44	25 19 0	56 08 5	.19179
197 ¹	Sesskameelboom	24 52 7	17 38	24 14 4	54 39 5	.19723
198 ²	Shakals Kuppe	26 38 2	16 32	24 37 0	55 41 2	.19407
199 ³	Signal Hill	33 55 0	18 24	28 04 5	59 46 0	.17830
200 ³	Sir Lowry Pass	34 07 3	18 55	28 09 1	60 02 9	.17698
201 ¹	Spitzkop	26 25 5	18 23	25 01 0	55 49 1	.19361
202 ³	Stanford	34 26 7	19 28	27 54 7	60 18 7	.17692
203 ³	Steenkamps poort	32 06 3	21 44	26 54 1	60 01 5	.17900
204 ³	Stellenbosch	33 56 0	18 50	27 54 2	59 59 9	.17774

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SUMMARY OF RESULTS—(continued).

No.	Station Name.	Latitude.	Longitude.	Declination (D).	Dip. (θ).	Horizontal Intensity (H).
205 ¹	Stompiesfontein.....	32° 13' 5 S.	19° 41' E.	27° 13' 4 W.	59° 21' 7 S.	·18103
206 ³	Strandfontein.....	34° 05' 3	18° 34	28° 04' 0	59° 51' 8	—
207 ³	Sutherland.....	32° 25' 0	20° 39	26° 54' 1	59° 55' 2	·18078
208 ³	Swellendam.....	34° 02' 0	20° 27	27° 39' 7	60° 30' 5	·17651
209 ³	Swanswani.....	27° 46' 6	23° 50	23° 44' 2	58° 34' 4	·18512
210 ³	Taungs.....	27° 34' 8	24° 45	23° 13' 0	58° 53' 7	·18432
211 ³	Touws River.....	33° 21' 0	20° 03	28° 08' 2	60° 10' 3	·17684
212 ¹	Tsawisis.....	27° 28' 4	18° 00	25° 18' 8	56° 27' 1	·19028
213 ¹	Tschaukaib.....	26° 34' 5	15° 37	25° 20' 2	55° 02' 7	·19431
214 ³	Tulbagh Road.....	33° 19' 3	19° 10	27° 44' 6	59° 43' 2	·17863
215 ³	Uitspan Farm.....	31° 41' 2	21° 27	27° 01' 2	60° 12' 2	·17722
216 ³	Upington.....	28° 27' 7	21° 15	26° 22' 2	58° 08' 3	·18748
217 ¹	Vaalgras.....	26° 05' 6	18° 30	24° 49' 1	55° 51' 0	·19400
218 ³	Van Rhynsdorp.....	31° 29' 7	18° 44	27° 25' 8	58° 57' 0	·18172
219 ³	Van Wyk's Farm.....	33° 49' 4	21° 12	27° 32' 3	60° 42' 9	·17578
220 ²	Van Wyk's Vlei.....	30° 22' 3	21° 50	26° 19' 4	59° 23' 7	·18005
221 ³	Villiersdorp.....	33° 59' 5	19° 19	27° 48' 7	60° 08' 3	·17701
222 ³	Vryburg.....	26° 57' 1	24° 43	22° 06' 3	58° 37' 7	·18783
223 ³	Warrenton.....	28° 06' 9	24° 52	24° 02' 5	59° 21' 9	·18360
224 ²	Wessels.....	27° 23' 7	23° 40	23° 32' 7	58° 28' 5	·18779
225 ¹	Willem's Rivier.....	31° 20' 6	19° 06	27° 09' 9	59° 01' 5	·18000
226 ³	Williston.....	31° 20' 4	20° 55	26° 02' 1	59° 40' 7	·18016
227 ¹	Windhoek.....	31° 44' 4	18° 38	27° 19' 7	58° 49' 6	·18151
228 ³	Worcester.....	33° 39' 0	19° 26	27° 49' 0	60° 03' 7	·18585
229 ¹	Wortel.....	29° 02' 0	18° 49	26° 20' 4	57° 41' 7	·18676
230 ³	Zak Rivier.....	30° 30' 9	20° 31	26° 23' 1	58° 55' 0	·18272
231 ²	Zand Gat.....	29° 11' 0	19° 43	25° 43' 2	58° 04' 0	·18575
232 ²	Zand Put.....	30° 05' 7	20° 49	26° 2' 1	59° 00' 6	·18153
233 ³	Zeekoeagat.....	33° 03' 0	22° 31	27° 14' 3	61° 17' 2	·17189
234 ²	Zeerust.....	25° 32' 6	25° 59	22° 57' 1	57° 52' 1	·18999
235 ²	Zonder Huis.....	29° 40' 0	20° 54	26° 00' 6	58° 42' 6	·18283
236 ²	Zoutpan.....	26° 48' 7	24° 13	23° 20' 6	—	·18889
237 ²	Zoutpansdrift.....	33° 09' 9	19° 43	27° 46' 3	60° 04' 0	—
238 ³	Zuurbraak.....	34° 00' 3	20° 39	27° 37' 6	60° 36' 4	·17635
239 ³	Zuurfontein.....	32° 51' 0	18° 35	27° 30' 1	59° 22' 4	·17988
240 ³	Zuurpoort.....	32° 02' 9	24° 08	26° 15' 5	60° 54' 5	·17606
241 ²	Zwartkopje.....	29° 29' 0	19° 39	25° 58' 8	58° 13' 8	·18519
242 ¹	J.T.M. 26.....	29° 15' 8	17° 11	26° 29' 4	57° 19' 7	·18718
243 ¹	J.C.B. 26.....	30° 44' 3	19° 12	26° 29' 8	58° 43' 5	·18347
244 ¹	J.C.B. 27.....	30° 36' 2	18° 51	26° 32' 6	—	·18286
245 ¹	J.C.B. 30.....	30° 15' 7	18° 28	26° 47' 8	58° 11' 9	·18393
246 ¹	J.C.B. 32.....	29° 59' 0	18° 19	26° 13' 2	—	—
247 ¹	J.C.B. 48.....	28° 44' 0	18° 25	25° 59' 2	58° 33' 0	·18423
248 ¹	J.C.B. 49.....	28° 34' 7	18° 33	26° 02' 5	57° 15' 8	·18795
249 ¹	J.C.B. 53.....	27° 44' 6	18° 24	25° 17' 3	56° 42' 0	·18957
250 ¹	J.C.B. 54.....	27° 35' 4	18° 15	25° 22' 1	56° 36' 3	·18963
251 ¹	J.C.B. 62.....	26° 47' 8	17° 14	24° 35' 5	55° 19' 6	·19497
252 ¹	J.C.B. 73.....	26° 11' 6	18° 29	24° 53' 7	56° 00' 4	·19312
253 ¹	J.C.B. 79.....	25° 13' 5	17° 48	24° 26' 9	55° 02' 7	·19601
254 ²	A.....	26° 14' 7	23° 56' 8	23° 05' 4	57° 24' 5	·19195
255 ²	B.....	26° 12' 0	24° 01	23° 00' 6	57° 36' 4	·19162

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