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DESCRIPTORS : LESOTHO (f. BASUTOLAND) - GAZETTEERS, TOPOGRAPHIC, GEOLOGICAL
MINERAL, SOIL MAPS

THE PRINCIPAL GAZETTEERS, TOPOGRAPHIC, GEOLOGICAL, MINERAL AND SOIL
MAPS OF LESOTHO (formerly BASUTOLAND)

0. GENERAL

Lesotho is a mountainous enclave surrounded by the Republic of South Africa, lying between parallels of latitude 28°30'S and 30°40'S and meridians of longitude 27°00'E and 29°30'E. The country's total area is 11,716 sq. miles (30,340 sq. km.) of which one third, lying along the western and southern boundaries, can be classed as lowland between 5,000 and 6,000 ft (1,500 - 1,750 metres) above sea level and the remaining two thirds is a foothill and highland zone rising eastwards and north-east to the Drakensberg with peaks such as Thabana-Ntlenyana (3,482 m. or 11,425 ft) and Mt. Aux Sources or Phofung (3,282 m. or 10,763 ft).

- The country is divided administratively into 10 DISTRICTS named after their district headquarter towns. Each district is divided into WARDS, most of which are presided over by hereditary chiefs.

BEREA	MOHALE'S HOEK
BUTHA-BUTHE	MOKHOTLONG
LERIBE	QACHAS NEK
MAFETENG	QUTHING
MASERU	THABA-TSEKA (created 1981)

The capital is at Maseru, lying near the western border and the railhead from the Orange Free State and Bloemfontein.

Historically and politically the Basotho nation was formed in the early 19th Century from remnants of refugee tribes from the inter-african and the British - Boer conflicts. The founder, Moshoeshoe (Moshesh) asked for British protection in 1868, who in 1871 annexed it to Cape Colony. In 1884 after a lengthy war Britain assumed direct control and although provision was made for its incorporation into South Africa in 1910 this was resisted by the Basuto. The country became an independent and sovereign member of the Commonwealth under the name Kingdom of Lesotho on 4th October 1966. The Basutoland National Party (BNP) under Chief Leabua Jonathan came to power in the 1965 elections and remained in power until Jonathan's coup d'etat, in 1970, curbed the power of the king, suspended the constitution and declared the elections illegal. Subsequent government under a Council of Ministers operated up to 1974 when a National Assembly was nominated. Internal opposition has been suppressed but relations with South Africa have deteriorated, although the country remains dependent upon South African aid. Agricultural development has been aimed at self-sufficiency. Utilisation of water resources has not been developed because of its sufficiency but future

development could include hydroelectric schemes and irrigation. The scenic resources could provide the basis of a small tourist industry. The labour resources are mainly 'exported' to South Africa.

Physiographically the country is divided into three zones dominated by the foothill and highland zone. This area of the deeply dissected mountain range, the Malutis, whose 10,000 ft peaks and plateaus are remnants of an ancient peneplain, form part of the Drakensberg. The lowland third lies along the western border of the country varying from 6 - 40 miles in width, and forms part of the high veldt averaging about 5,000 ft above sea level. The drainage of the lowlands is westwards to the Caledonian R., which forms much of the north-western border with the Orange Free State. The south-western part drains to the Orange River.

The geology mainly comprises the Stormberg Series (Karoo system rocks of Upper Triassic - Lower Jurassic age) of Basaltic Lavas and Ash Beds (Drakensberg Beds) with underlying clastics (Cave Sandstone), mainly sandstone with thin shales; (Red Beds) shales; and (Molteno Beds) of grits and sandstones.

The strata are cut by dykes and sheets of dolerite formed by the feeder channels of the Drakensberg lavas. Kimberlite intrusions, of the late Cretaceous, occur in dykes, 'blows' and pipes in clusters and belts, trending with the regional structural pattern of joints, faults and dolerite dykes. The general structure of the country is of a shallow synclinal basin with higher parts in the west, north and south. Erosion of soils is severe and conservation is necessary. More than thirty kimberlite pipes are known and seventeen have been shown to bear diamonds. The known mineral resources are of minor economic value and include diamonds discovered in 1955 which have provided a modest revenue to the government and roadstone and building stone of good quality. A Reconnaissance Mineral Survey was carried out by two British geologists from April to August 1963, and from January 1965 to March 1966 a mining engineer and several prospectors tested selected Kimberlites and prospected for alluvial deposits. (BLEACKLEY & WORKMAN 1964); INSTITUTE OF GEOLOGICAL SCIENCES 1966).

Fossil reptilia and a mammal from the Triassic of Basutoland were described by OWEN (1876, 1884) and in 1905 and 1908 the Reverend S.S. Dornan published notes on the geology of Basutoland. The standard reference to the geology of Basutoland is by G.M. Stockley (1947), the results of 54 weeks in the field and 27 weeks laboratory work completed between 1938 and 1940, as a Government Geologist seconded from the Geological Survey of Tanganyika. P. and F. Ellenberger made several studies of the Quaternary and the Stormberg included dinosaur remains in the latter between 1955 and 1960 and by K.A. Kermack (1963) on mammal-like reptiles.

After the discovery of diamonds in June 1956 by Mr J. Scott in the Butha-Buthe area several surveys referred to above were undertaken and also two PhD theses by J.B. Dawson (1960) and P.H. Nixon (1960) on the Kimberlites were completed (KENNEDY, W.Q. 1962).

An annotated bibliography on the geology, mineral and water resources was compiled by Paterson (1963) and D.P. AMBROSE (1982) covered some of the literature on Lesotho geology and mineral resources in a general

bibliography on Lesotho.

In this present cartobibliography the most recent maps are listed at the end of each section and the more important are marked by an asterisk. The maps available for reference in BGS Library are marked 'A'.

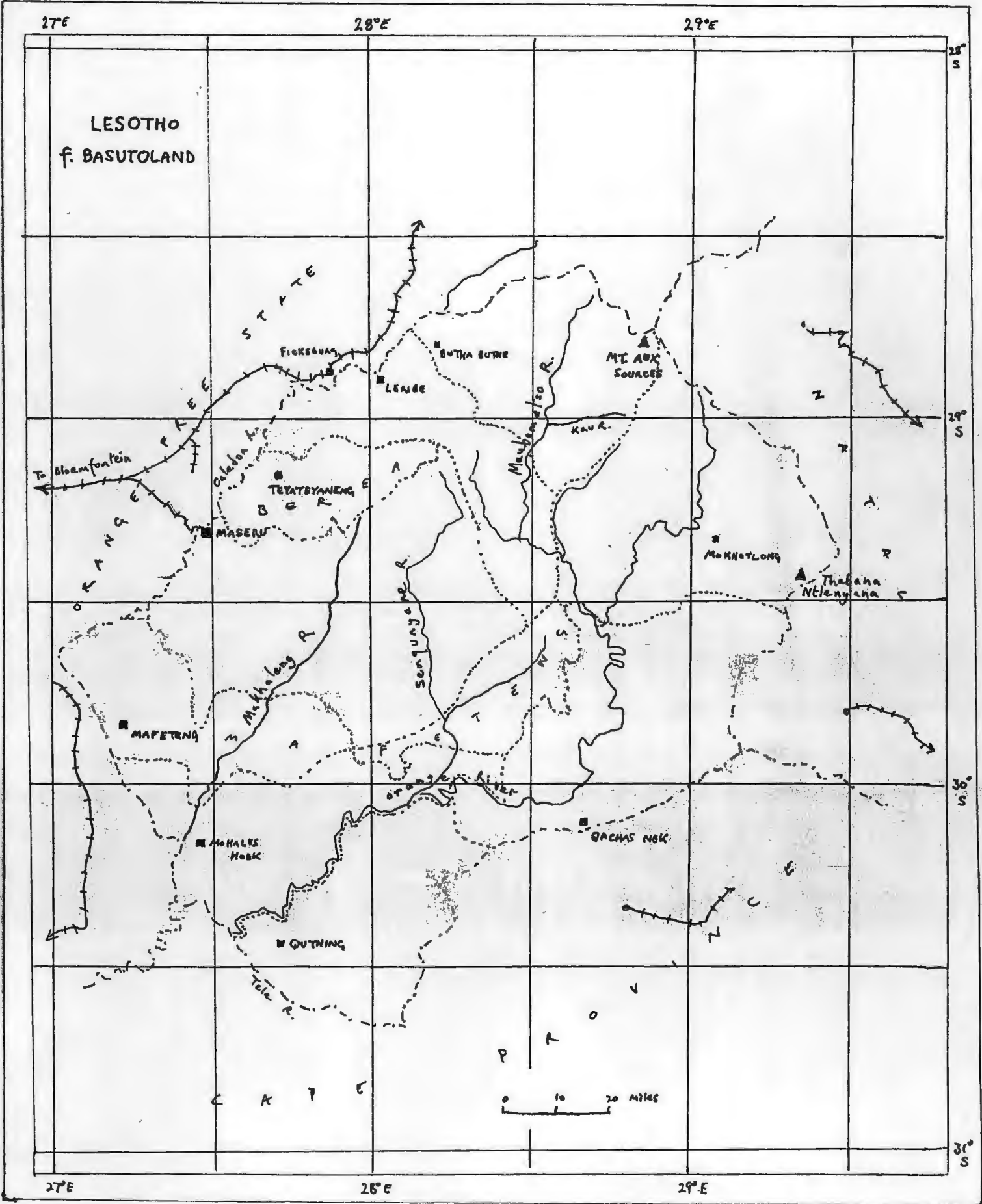


Compiled 17th February 1984

Revised 1st June 1984

by D.S. Paterson

BGS Map Librarian



■ DISTRICT HQ

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- 1954 DIVISION OF GEOGRAPHY, SOUTH AFRICA. Volume II Union of South Africa 0-2; Basutoland, Bechuanaland, South West Africa and Swaziland. Official Standard Names Approved by the United States Board on Geographic Names. Washington, D.C. Department of the Interior. Vol.II pp.556-1081 (Vols I and II - 44,000 entries).

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- 1905 [DORNAN, S.S., Rev. On the geology of Basutoland] Nature Lond. Nov. 23rd 1905, No.1882, Vol.73, p.92.
- 1908 DORNAN, S.S., Rev. Notes on the ancient volcanoes of Basutoland. Report Seventy-seventh Meeting British Association for the Advancement of Science, Leicester, 31st July - 7th August 1907, Transactions, Section C Geology, Tuesday August 6, Paper 8, pp.517-519.
- 1908 DORNAN, S.S. Notes on the geology of Basutoland. Geological Magazine, London, Decade V, Vol.V, No.II February 1908 pp.57-63; No.III March 1908 pp.112-118.
- 1940 STOCKLEY, G.M. The geology of Basutoland. Geological Magazine, London, Vol.LXXVII, No.6, Nov.-Dec. 1940, pp.444-460.
- 1947 STOCKLEY, G.M. Report on the Geology of Basutoland. Maseru; Basutoland Government, 114pp., col. geol. map 1:380,160.
- 1955 ELLENBERGER, P. Le Quarternaire du Basutoland (Afrique du Sud) (Note Preliminaire). Compte Rendu Academie des Sciences, Paris. Seance 14th Fevrier 1955, Tome 240, No.7, pp.793-795.
- 1958 ELLENBERGER, F., and P. Principaux types de pistes de vertebrees dans les couches de Stormberg au Basutoland (Afrique du Sud) (Note preliminaire). Compte Rendu Sommaire Societe geologique Francais, 1958, pp.65-67.
- 1960 ELLENBERGER, F., and P. Sur une nouvelle dalle a pistes de vertebrees decouverte au Basutoland (Afrique du Sud). Compte Rendu Sommaire Societe geologique Francais, 19th decembre 1960, pp.236-238.
- 1960 MORSE, C. et al. Basutoland, Bechuanaland and Swaziland: Report of an Economic Survey Mission. London: H.M. Stationery Office, 555pp., maps.
- 1963 KERMACK, K.A. Demonstrated vertebrate fossils from Basutoland. Proceedings Geological Society of London No.1603 [Session 1962-3], 30th January 1963, pp.1-2.

- 1963 PATERSON, D.S. Annotated Bibliography on the Geology, Mineral and Water Resources of Basutoland (Revised). Overseas Geological Surveys, Mineral Resources Division, Sources of Information (Series B. References), Preliminary Note No.43, Open File Report M6562/96, 31st October 1963, 13pp.
- 1964 BLEACKLEY, D. and WORKMAN, D.R. Reconnaissance Mineral Survey of Basutoland. Overseas Geological Surveys [Report No.3]. London. Unpublished Mimeographed Report, 118pp., map.
- 1964 BLEACKLEY, D. and WORKMAN, D.R. Basutoland: Reconnaissance Geological and Mineral Survey. Overseas Geological Surveys Annual Report for 1963. London: H.M. Stationery Office. pp.25-30.
- 1966 INSTITUTE OF GEOLOGICAL SCIENCES. Special Surveys: A Preliminary Evaluation of Diamond Deposits in Basutoland. Institute of Geological Sciences Annual Report 1965, Part II: Overseas Geological Surveys. London: H.M. Stationery Office. pp.28-32.
- 1980 WILLET, S.M. and AMBROSE, D.P. Lesotho: A Comprehensive Bibliography. Clio. ?pp.
- 1982 AMBROSE, D.P. Lesothana: An Annotated Bibliography of New and Newly located Lesotho Materials. [No.] 1. August 1982. Roma: Documentation Centre, Institute of Southern African Studies, National University of Lesotho. 24pp.

1. LESOTHO : NATIONAL AREAWhole State (Geographic : General)

- A 1.1 Basutoland (General Geographic Map). D.O.S. (Misc.) 280. -
Scale ca. 1:765,000. - 1960 Ed. -
Published by Directorate of Overseas Surveys. -
[Tolworth, Surrey, England]. -
One sheet 39 x 35 cm. Full col. pr.
[Also shows Hydrological Survey Stations]. [Also In MORSE, C. 1960]
- A 1.2 Basutoland (General Geographic Map) D.O.S. (Misc.) 420. -
Scale ca. 1:765,000. - 1965 Ed. -
Published by Directorate of Overseas Surveys. -
[Tolworth, Surrey, England]. -
One sheet 39 x 35 cm. Full col. pr.
- A 1.3 Lesotho: Relief [Map]. - D.O.S. (Misc.) 417A. -
Scale 1:1,000,000. - 1967 Ed. -
Directorate of Overseas Surveys [for] Lesotho Government.
Map [No.1] f.p.4, 30 x 23 cm. Full col. pr.
In CARROLL, D.M. and BASCOMB, C.C. 1967. Notes on the soils of Lesotho.
Technical Bulletin No.1, Land Resources Division, Directorate of
Overseas Surveys. - Tolworth, Surrey, England. 75pp.
Also Map No.1. f.p.8
In BAWDEN, M.G. and CARROLL, D.M. 1968. The Land Resources of Lesotho.
Land Resources Study No.3, Land Resources Division, Directorate of
Overseas Surveys. - Tolworth, Surrey, England. 89pp.
- A *1.4 Map of Lesotho. [Topographic Relief] Series D.O.S. 621/1. Sheets:
North and South. -
Scale 1:250,000. - Edition 1. - D.O.S. 1978.
Published for Lesotho Government (Department of Lands, Surveys and
Physical Planning, Ministry of Interior, Maseru) by the British
Government's Ministry of Overseas Development (Directorate of Overseas
Surveys). - Tolworth, Surrey, England. -
2 sheets ea. 99 x 54 cm. Full col. pr.

Whole State (Geographic : Transport)

- A 1.5 Transport and Communications System of Basutoland, DRG No.1051/11.
[Based on War Office GSGS 2567 (1911)]. -
Scale 1:250,000. - 1955 Ed. -
Basutoland Government, Public Works Department.
One sheet 100 x 100 cm. Dy. pr.

Whole State (Geological)

- A *1.6 Geological Map of Basutoland. -
Scale ca. 1:380,160. - 1939 Ed. -
Geologically surveyed by G.M. Stockley 1939. -
[Basutoland Government, Maseru]. - Salisbury: Government Lithographic
Press
One sheet 63 x 63 cm. Full col. pr. [3, Horizontal Sections]
In STOCKLEY, G.M. 1947. Report on the Geology of Basutoland. -
Basutoland Government, Maseru. 1947. 114pp.

- A 1.7 Lesotho: Geology [Map]. - D.O.S. (Misc.) 417B. -
 Scale 1:1,000,000. - 1967 Ed. -
 Based on G.M. Stockley 1947. -
 Directorate of Overseas Surveys [for] Lesotho Government.
 Map 2. f.p.10. 30 x 23 cm. Full col. pr.
In BAWDEN, M.G. and CARROLL, D.M. 1968. The Land Resources of Lesotho.
 Land Resources Study No.3, Land Resources Division, Directorate of
 Overseas Surveys. - Tolworth, Surrey, England. 89pp.

Whole State (Geological : Economic/Mineral)

- A *1.8 Map of Basutoland [showing kimberlite pipes, 'blows' and dykes,
 kimberlite minerals found in stream sediments, and extent of Drakensberg
 lavas]. -
 Scale ca. 1:375,000. - [ca. 1963 Ed.].
 [Overseas Geological Surveys].
 One sheet 63 x 63 cm. Dyline pr.
- A 1.9 Map of Basutoland, showing kimberlite occurrences and O.G.S.
 [Geochemical] sampling points. - O.G.S. 11
 Scale 1:400,000. - 1963 Ed. -
 Overseas Geological Surveys, London.
 One sheet 52 x 61 cm. Dyeline print, Hand col. (ink).
In BLEACKLEY, D. and WORKMAN, D.R. 1964. Reconnaissance Mineral Survey
 of Basutoland. Overseas Geological Surveys [Report No.3.] London:
 Mimeographed Report. 118pp.

Whole State (Geophysical - Gravity)

- A *1.10 Lesotho Bouguer Gravity Anomaly Map. -
 Scale 1:500,000. - 1980 Ed.1. -
 A.J. Burley et al. -
 Published by the Institute of Geological Sciences for the Government of
 Lesotho.
 One sheet 48 x 50 cm. Col. pr.
In BURLEY, A.J. et al. 1982. A gravity survey of Lesotho. -
 Overseas Geology and Mineral Resources No.60, Institute of Geological
 Sciences. - London: H.M. Stationery Office. 27pp.
- A *1.11 Lesotho Isostatic Gravity Anomaly Map. -
 Scale 1:500,000. - 1980 Ed.1. -
 A.J. Burley et al.
 Published by the Institute of Geological Sciences for the Government of
 Lesotho.
 One sheet 48 x 50 cm. Col. pr.
In BURLEY, A.J. et al. 1982. A gravity survey of Lesotho. -
 Overseas Geology and Mineral Resources No.60, Institute of Geological
 Sciences. - London: H.M. Stationery Office. 27pp.

Whole State (Land Provinces, Regions and Systems)

- A *1.12 Lesotho: Land Provinces and Regions. - D.O.S. (Misc.) 417E. -
 Scale 1:1,000,000. - 1967 Ed. -
 Directorate of Overseas Surveys [for] Lesotho Government
 Map 5, f.p.28, 30 x 23 cm. Full col. pr.
In BAWDEN, M.G. and CARROLL, D.M. 1968. The Land Resources of Lesotho.
 Land Resources Study No.3., Land Resources Division, Directorate of
 Overseas Surveys. - Tolworth, Surrey, England. 89pp.

- A 1.13 Lesotho: Land Systems (East and West Sheets). - Series D.O.S. (LR) 3031B. - Scale 1:250,000. - 1967 Ed. -
 Field investigation, aerial photographic interpretation and compilation by M.G. Bawden and D.M. Carroll. -
 Prepared [and published] by the British Government's Ministry of Overseas Development (Directorate of Overseas Surveys) under the Special Commonwealth African Assistance Plan 1966 [for the Government of Lesotho].
 2 sheets ea. 87 x 48 cm. Full col. pr.
Also In BAWDEN, M.G. and CARROLL, D.M. 1968. Land Resources of Lesotho. Land Resources Study No.3, Land Resources Division, Directorate of Overseas Surveys. - Tolworth, Surrey, England. 89pp.

Whole State (Soil)

- A *1.14 Lesotho: Soils (East and West Sheets). - Series D.O.S. (LR) 3031A. - Scale 1:250,000. - 1967 Ed. -
 Field Investigation, aerial photographic interpretation and compilation by D.M. Carroll. -
 Prepared [and published] by the British Government's Ministry of Overseas Development (Directorate of Overseas Surveys) under the Special Commonwealth Assistance Plan 1966 [for the Government of Lesotho].
 2 sheets ea. 87 x 48 cm. Full col. pr.
Also In BAWDEN, M.G. and CARROLL, D.M. 1968. The Land Resources of Lesotho. Land Resources Study No.3, Land Resources Division, Directorate of Overseas Surveys. - Tolworth, Surrey, England. 89pp.

2. LESOTHO : SYSTEMATIC MAPPINGWhole unit 1:50,000 (Geographic : Topographic)

- A * 2.1 Basutoland 1:50,000 [Geographic : Topographic] Series D.O.S. 21/D.O.S. 421 (Series Z 782)/L50. -
Scale 1:50,000. - Eds 1 (1954-), 2, 3 (1955-), 4 (1979-), 5 (19--), 6 (19--)

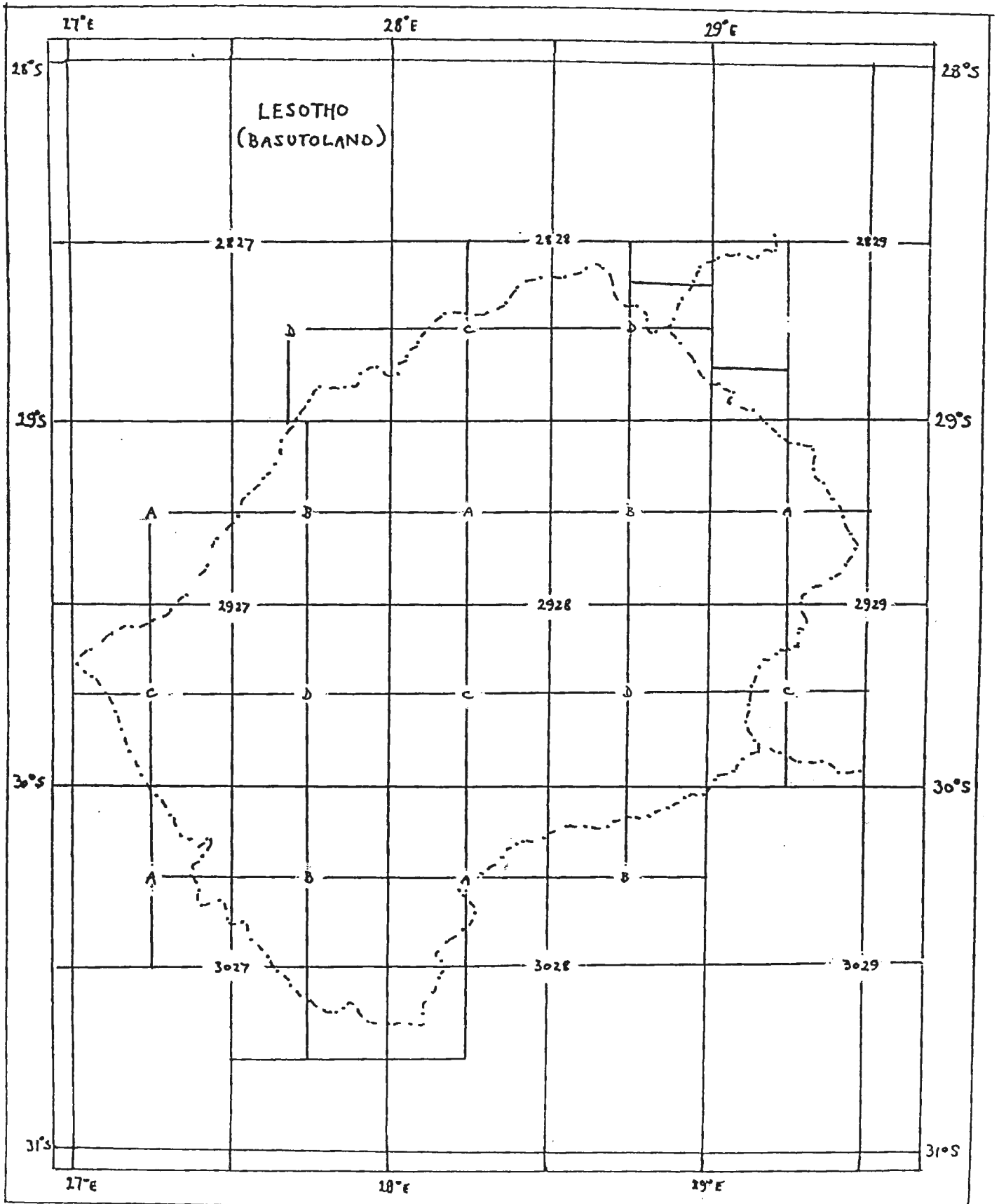
Published by Directorate of Colonial/Overseas Surveys [for the Government of Lesotho]. - Tolworth, Surrey, England.

60 quarter of a degree (15' x 15') sheets ea. 48 x 55 cm. Col. pr.

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5.	2827 DD & Pt			
	2827 DC	(13)	Ed.1.	1956
6.	2828 CC	(14)	Ed.2.	1960
7.	2828 CD	(15)	Ed.2.	1960
8.	2828 DC	(16)	Ed.2.	1960
9.	2828 DD	(17)	Ed.1.	1954
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		of (18)	Ed.2.	1961
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29.	2927 CB	(41)	Ed.2.	1956
30.	2927 DA	(42)	Ed.2.	1953
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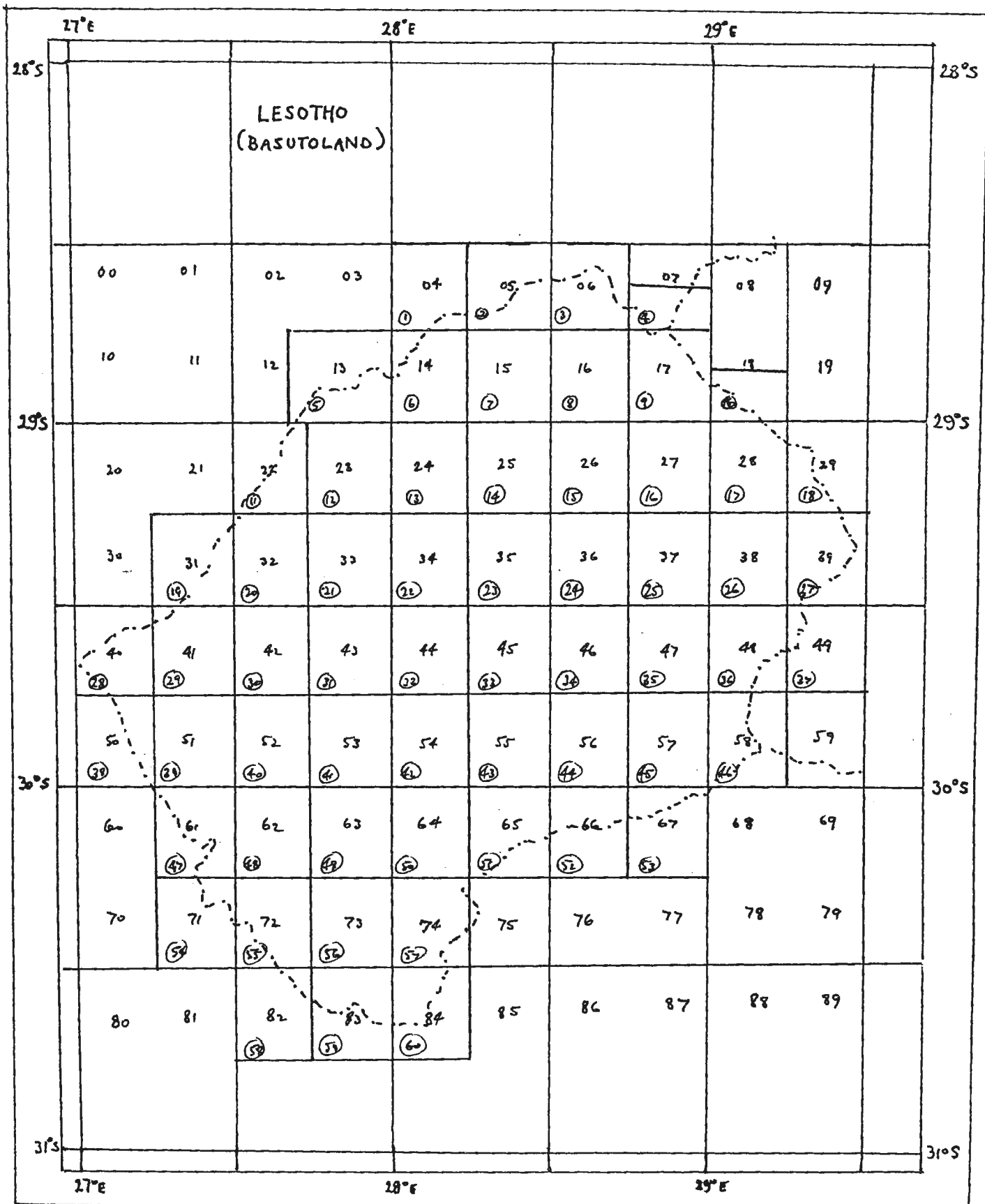
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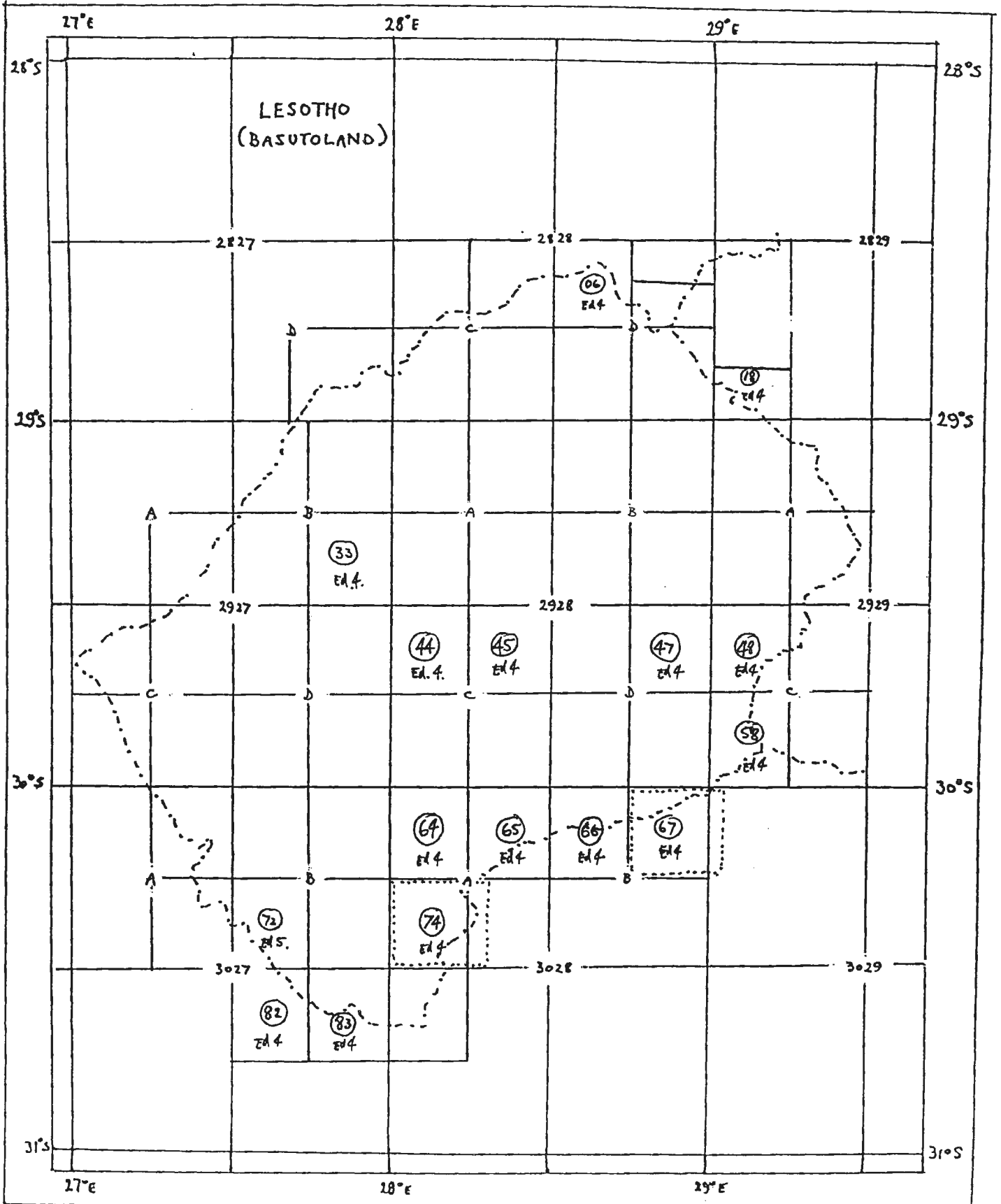
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GEOGRAPHIC
TOPOGRAPHIC

1:50,000

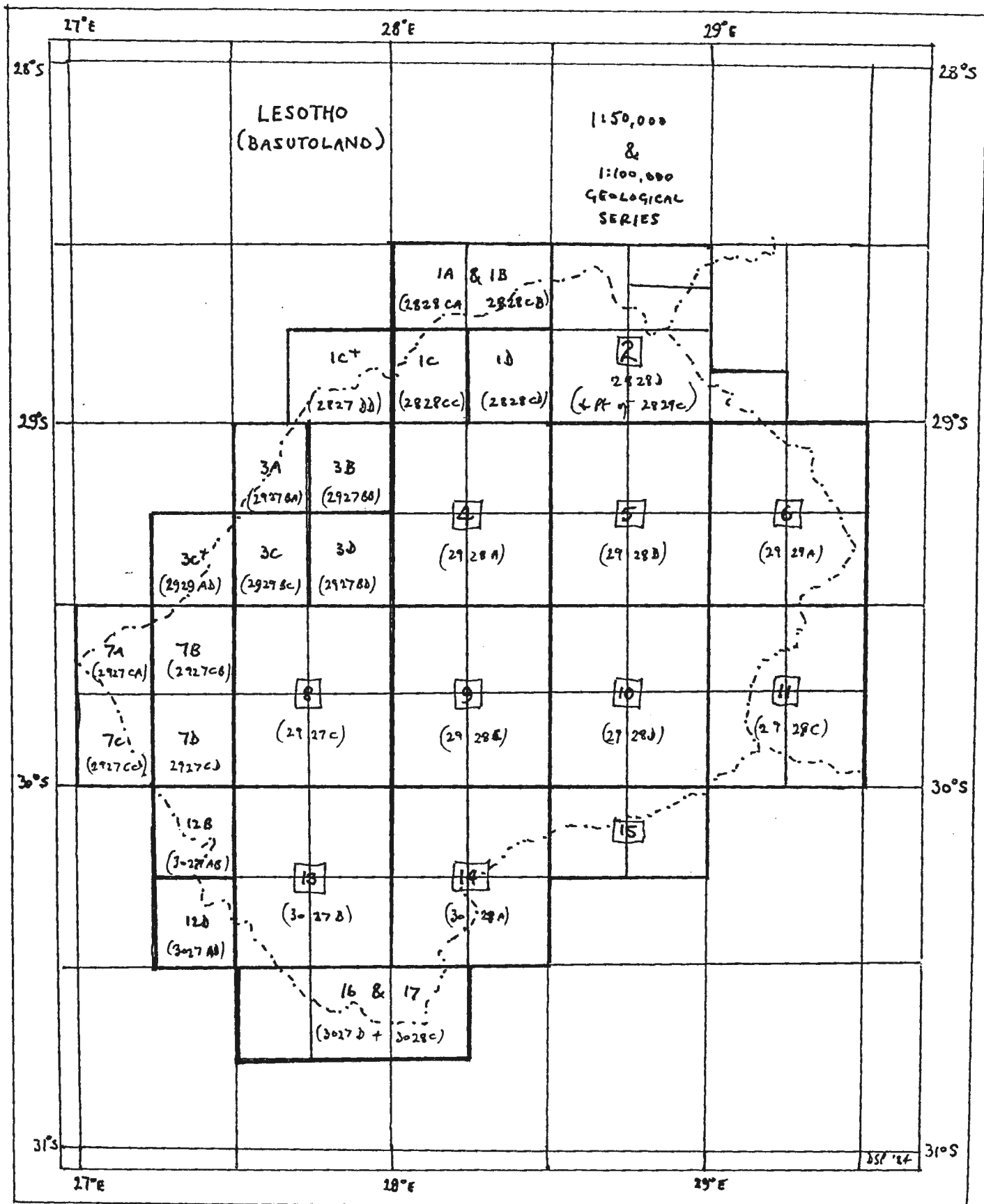
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4, 5

2. LESOTHO : SYSTEMATIC MAPPINGWhole unit 1:100,000 (Geological)

- A * 2.2 1:100,000 Lesotho Geological Sheet [No. and Name] ... Series Les. Geol. 100. -
 Scale 1:100,000. - Ed.1. 1981-
 Geology compiled by UNDP Exploration for Minerals Project, Lesotho Department of Mines and Geology; Ministry of Water, Energy and Mining (Maseru). -
 Published by Government of U.K. (Directorate of Overseas Surveys) for the Government of Lesotho (Department of Mines and Geology). -
 Surbiton, Surrey, England/Maseru.
 20 sheets 48 x 55 cm or larger. Full col. pr.
 [Published as 12 (30' x 30') sheets at 1:100,000 and 16 (15' x 15') sheets at a scale of 1:50,000.]
2. (2828D and Pt of 2829C)
 4. (2928A)
 5. (2928B) MATSOKU - SENQU (29°00'S-29°30'S; 28°30'E-29°00'E) (1981)
 6. (2929A) MOKHOTLONG (29°00'S-29°30'S; 29°00'E-29°30'E) (1981)
 8. (2927D) MATSIENG (29°30'S-28°00'S); 27°30'E-28°00'E) (1981)
 9. (2928C) SENQUNYANE - LESOBENG (29°45'S-30°00'S; 28°00'E-28°30'E) (1982)
 10. (2928D) SENQU (27°30'S-30°00'S; 28°30'E-29°00'E) (1982)
 11. (2929C) SEHLABTHEBE (29°30'S-30°00'S; 29°00'E-29°30'E) (1981)
 13. (3027B) QUTHING (30°30'S-30°00'S; 27°30'E-28°00'E) (1982)
 14. (3028A) SEKAKE (30°00'S-30°30'S; 28°00'E-28°30'E) (1982)
 15. (3028B and Pt 3029A) QUACHA'S NECK (30°00'S-30°10'S; 28°30'E-29°02'E)
 - 16.& 17. (3027D and 3028C) TELE/SEBAPALA (30°30'S-30°42'S; 27°36'E-28°12'E) (1982)



2. LESOTHO : SYSTEMATIC MAPPINGWhole unit 1:50,000 (Geological)

- A * 2.3 1:50,000 Lesotho Geological Sheet [No. and Name] ... -
 Series Les. Geol. 50. -
 Scale 1:50,000. - Ed.1. 1981-
 Geology compiled by UNDP Exploration for Minerals Project, Lesotho
 Department of Mines and Geology; Ministry of Water, Energy and Mining
 (Maseru). -
 Published by Government of Lesotho (Department of Mines and Geology). -
 Surbiton, Surrey, England/Maseru.
 16 quarter sheets (15' x 15') ea. 48 x 55 cm. Full col. pr.
- [See also 1:100,000 Series.]
- 1A and 1B (2828CA and 2828CB) HA PHOOKO/HOLOLO (28°45'S-28°30'S;
 (28°07'E-28°30'E) (1982)
- 1C⁺ (2827DD) MAPUTSOE (29°00'S-28°45'S; 27°45'E-28°00'E) (1982)
- 1C (2828CC) HLOTSE (29°00'S-28°45'S; 28°00'E-28°15'E) (1982)
- 1D (2828CD)
- 3A (2927BA) TEYATEYANENG (29°00'S-29°15'S; 27°30'E-27°45'E) (1982)
- 3B (2927BB) MAPOTENG (29°00'S-29°15'S; 27°45'E-28°00'E) (1982)
- 3C⁺ (2929AD) MASERU (29°15'S-29°30'S; 27°15'E-27°30'E) (1981)
- 3C (2927BC) ROMA & THABA BOSIU (29°15'S-29°30'S; 27°30'E-27°45'E)
 (1981)
- 3D (2927BD)
- 7A (2927CA)
- 7B (2927CB) KOLO (29°30'S-29°45'S; 27°15'E-27°30'E) (1981)
- 7C (2927CC) MAFETENG (29°45'S-30°00'S; 27°00'E-27°15'E) (1982)
- 7D (2927CD) THABANA-MORENA (30°00'S-29°45'S; 27°15'E-27°30'E) (1982)
- 12B (3027AB and Pt of 3027AA) MOHALE'S HOEK (30°00'S-30°15'S;
 27°12'E-27°30'E) (1981)
- 12D (3027AD)