

Land Resource Study

41205

20 The Soils of Sabah Maps

SOI

Land Resources Division, Ministry of Overseas Development

THE SOILS OF SABAH

MALAYSIA (SABAH) 1:250,000

S O U T H

C H I N A

S E A

B R U N E I B A Y

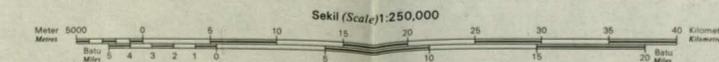
PULAU LABUAN

VICTORIA

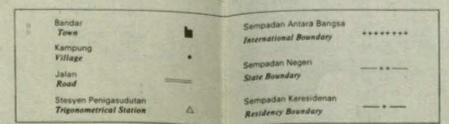
BRUNEI

Key	Association	Landform	Parent materials	Main soil units
1	Blauan	Tidal swamps	Sulphidic alluvium, sulphides and alluvium	Thionic Fluvisol; Dystric Histosol; Thionic Gleysol
2	Lukan	Beaches	Calcareous alluvium	Calcic Regosol; Humic Gleysol
3	Tandang Anu	Blachies	Alluvium	Dystric and Eutric Regosols; Humic, Dystric and Eutric Gleysols; Calcic Regosol
4	Tuaran	Meander belts	Alluvium	Eutric Fluvisol; Gleyic, Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinahatangan	Foodplains	Alluvium	Gleyic Acrisol; Gleyic Luvisol; Humic, Dystric and Eutric Gleysols
6	Sapi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Klas	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Binatik	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Orthic Ferralsol; Gleysol; Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Karamuk	Valley floors and terraces	Alluvium and alluvium-derived	Gleyic, Fluvisol and Dystric Luvisols; Dystric Histosol
10	Labau	Valley floors and terraces	Alluvium	Gleyic and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleyic and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleyic Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleyic Acrisols; Gleyic Podzol
13	Kappyan	Terraces	Alluvium	Gleyic Podzol; Gleyic Acrisol
14	Sook	Terraces	Alluvium	Gleyic and Orthic Acrisols; Gleyic Podzol; Dystric Gleysol
15	Sigitang	Swamps	Peat and alluvium	Dystric Histosol; Gleyic Podzol
16	Sinaran	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleyic Luvisols
18	Pinosak	Plateau with gently undulating surface and dissected terraces with slopes up to 25°	Colluvium, sandstone and mudstone	Gleyic Podzol; Gleyic and Orthic Acrisols; Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferralsol; Orthic Acrisol; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateau with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferralsols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol; Orthic and Chromic Luvisols
25	Silabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
26	Rumidi	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
27	Sipi	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Awe	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Rhodic Ferralsol; Orthic Acrisol; Eutric Cambisol
29	Katabakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Mawing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleyic Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleyic Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Serwang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol; Orthic Luvisol
35	Daget	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and igneous rocks	Chromic and Orthic Luvisols; Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lukan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol
40	Bang	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Dystric Cambisol
41	Bida Bida	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferralsols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Montapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagat	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Malubok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Associations 41, 42 and 43 with Chromic Cambisols and Lithosols on chert
45	Wullurudof	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisol; Chromic and Dystric Cambisols; Lithosol
48	Malau	Mountain cuestas	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol; Gleyic Podzol; Humic Gleysol; Lithosol
49	Serudong	Diplokes of mountain cuestas	Sandstone	Gleyic Podzol; Orthic Acrisol
50	Trusmi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleyic and Orthic Acrisols; Gleyic Podzol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinahalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

1180D
 an oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British
 on Sumber Tanah United Kingdom, 1974, untuk Kerajaan Negeri
 by the British Government's Overseas Development Administration
 resources Division) United Kingdom, 1974, for the Sabah Government.
 Kerajaan Terpelihar
 Pengarah Pemetaan Negara, Malaysia, wajib di-dapati
 peta ini atau sebahagian daripadanya di-salin.
 Copyright Reserved
 of the Director of National Mapping, Malaysia, is
 before this map or any portion thereof be copied.



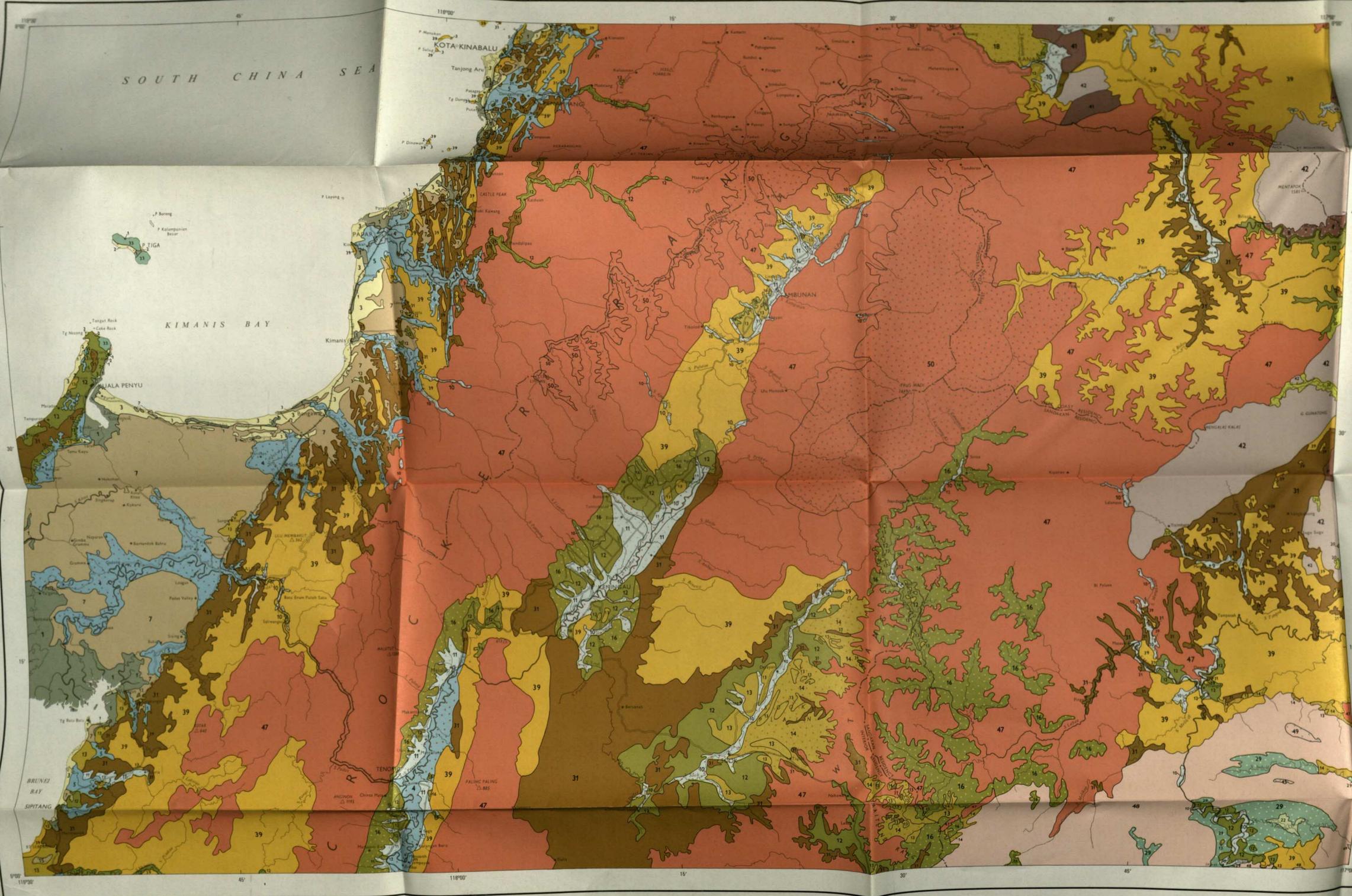
UKURAN TINGGI DENGAN UKURAN METER
 ELEVATIONS IN METRES



Disetak untuk Directorate of Overseas Surveys oleh Ordnance Survey
 Printed for the Directorate of Overseas Surveys by the Ordnance Survey

Peta asas diperolehi dari punca-punca terbaik yang ada, dengan perincian
 daripada Peta Puncak Rancangan I.B.D.
 Maklumat pakar disusun dari penyelidikan luan dan tafsiran foto
 yang berkaitan seperti yang ditunjukkan di gambarajah "Kawasan
 Tanahtani".
 Peta ini berlampiran dengan Kajian Sumber Tanah "The Soils of Sabah"
 diterbitkan oleh Land Resources Division, Overseas Development
 Administration, Tolworth Tower, Surbiton, Surrey, England, K16 1T.
 Base map derived from best available sources, with limited revision
 by E.A.D. Project Team.
 Specialist information compiled from field investigation, and re-
 photo interpretation, as indicated in the "Soil Survey Areas" of
 This map accompanies a Land Resources Study "The Soils of Sabah"
 published by the Land Resources Division, Overseas Development
 Administration, Tolworth Tower, Surbiton, Surrey, England, K16 1T.

THE SOILS OF SABAH



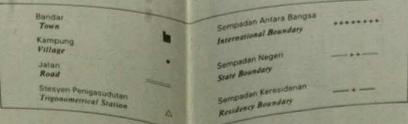
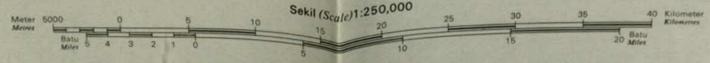
Key	Association	Landform	Parent materials	Main soil units
1	Muaran	Tidal swamps	Sulphate alluvium, sulphate peat and alluvium	Thionic Fluvisol; Dystric Histosol; Thionic Gleysol
2	Skuban	Beaches	Calcareous alluvium	Calcic Regosol; Humic Gleysol
3	Tampang Ara	Beaches	Alluvium	Dystric and Eutric Regosols; Humic, Dystric and Eutric Gleysols; Gleysol Podzol
4	Tuaran	Moundle belts	Alluvium	Eutric Fluvisol; Gleysol; Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinabatangan	Floodplains	Alluvium	Gleyic Acrisol; Gleyic Luvisol; Humic, Dystric and Eutric Gleysols
6	Keen	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Kias	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Mantap	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Dystric Fluvisol; Gleysol; Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Mantap	Valley floors and terraces	from basic/ultrabasic rocks	Dystric Fluvisol; Gleysol; Ferric and Orthic Luvisols; Ferric and Orthic Acrisols; Eutric Fluvisol
10	Labau	Valley floors and terraces	Alluvium	Gleyic and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleyic and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleyic Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleyic Acrisols; Gleyic Podzol
13	Kapayan	Terraces	Alluvium	Gleyic Podzol; Gleyic Acrisol
14	Soak	Terraces	Alluvium	Gleyic and Orthic Acrisols; Gleyic Podzol; Dystric Gleysol
15	Sipitang	Swamps	Peat and alluvium	Dystric Histosol; Gleyic Podzol
16	Sinarun	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleyic Luvisols
18	Pinook	Plateau with gently undulating surface and dissected terraces with slopes up to 20°	Colluvium, sandstone and mudstone	Gleyic Podzol; Gleyic and Orthic Acrisols; Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°); terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferrasol; Orthic Acrisol; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateau with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferrasols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol; Orthic and Chromic Luvisols
25	Sitakhan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
26	Rumod	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
27	Sipit	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Apas	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Ferrous Ferrasol; Orthic Acrisol; Ferric Cambisol
29	Kalahakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Masing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleyic Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleyic Acrisols
33	Krasan	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Beruang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol; Orthic Luvisol
35	Dagit	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols; Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantang	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lokan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol
40	Bing	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Dystric Cambisol
41	Bidu Bidu	Mountains and hills	Ultrabasic igneous rocks	Hyalic and Orthic Ferrasols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Mantapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagot	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Malubok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Associations 41, 42 and 43 with Chromic Cambisols and Lithosols on chert
45	Walterdorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisol; Chromic and Dystric Cambisols; Lithosol
48	Melau	Mountain cuestas	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol; Gleyic Podzol; Humic Gleysol; Lithosol
49	Serudung	Diplopes of mountain cuestas	Sandstone	Gleyic Podzol; Orthic Acrisol
50	Trusmi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleyic and Orthic Acrisols; Gleyic Podzol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

D.O.S. 3180E
Distributed by Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah.
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Hakcipta: Kerajaan Terpelika
Keterangan: Pengedaran Pentadbiran Kerajaan Malaysia, wajib di-dipali sa-belum peta ini atau sebahagian daripadanya di-salin.
Government Copyright Reserved
The approval of the Director of National Mapping, Malaysia, is necessary before this map or any portion thereof may be copied.

KAWASAN UKUR TANAHTANI
SOIL SURVEY AREAS

1. R.P. BOWER
2. M.S. KALSI
3. P. THOMAS
4. P.A. BURROUGHS
5. R.P. BOWER
6. P.A. BURROUGHS

1. B.D. ACRES
2. J. FOLLAND
3. A.D. HODGREN
4. D.W. IVES
5. D.W. MCCREDE
6. F. WILSON



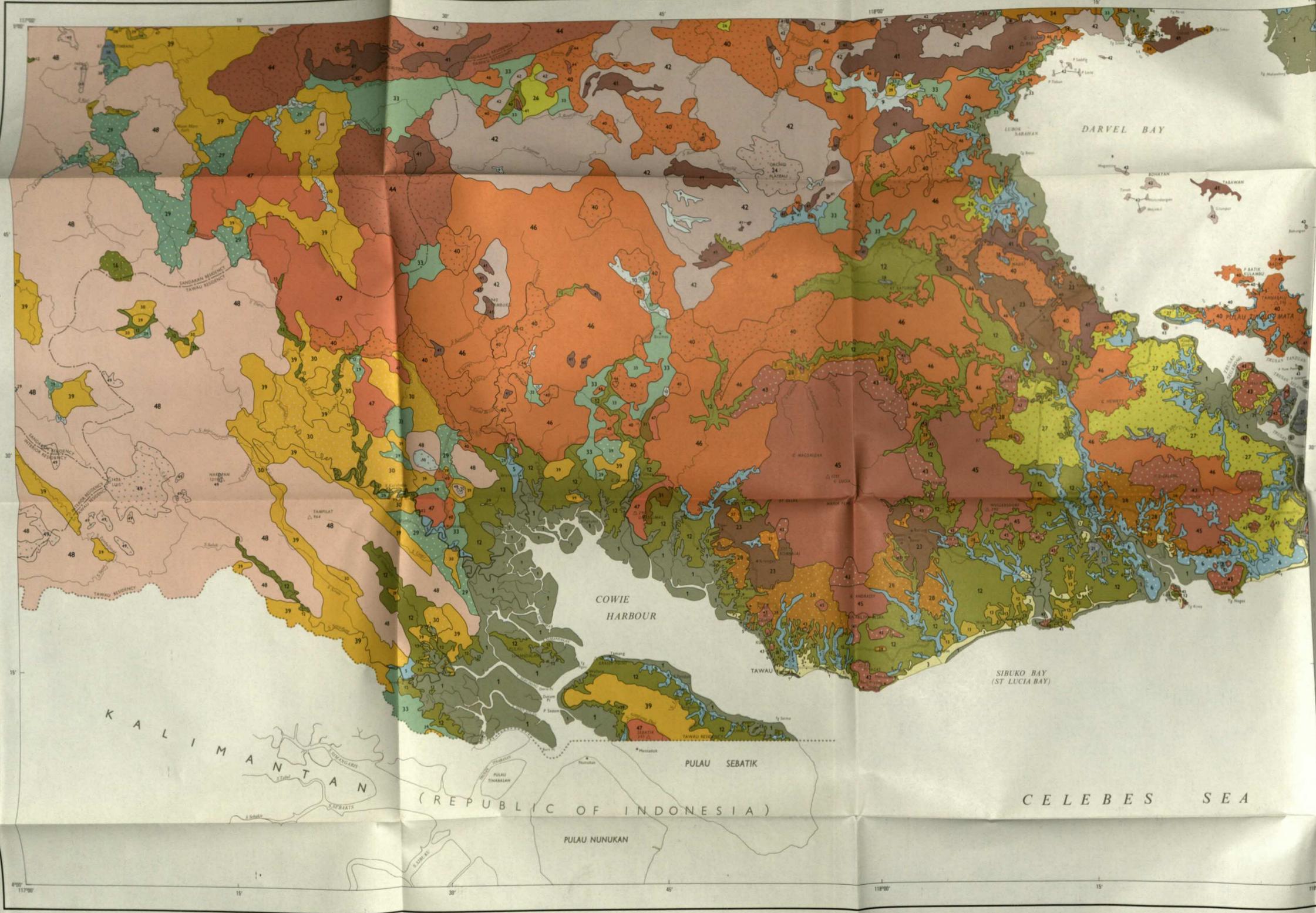
Dicetak untuk Directorate of Overseas Surveys oleh Ordnance Survey, Printed for the Directorate of Overseas Surveys by the Ordnance Survey, Norwich.

Peta asan dipaparkan dari punca-punca terbaik yang ada, dengan pindaan terhad oleh Pasukan Rancangan L.R.D. Maklumat lanjut mengenai data pemetaan ini, dan tafsiran foto udara yang berkaitan seperti yang ditunjukkan di gambarajah 'Kawasan Ukur Tanahtani'.

Peta ini berdasarkan dengan Kajian Sumber Tanah 'The Soils of Sabah' diterbitkan oleh Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, KT6 7DY.

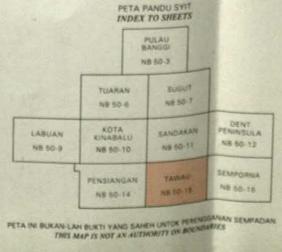
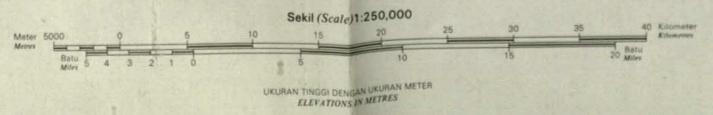
Base map derived from best available sources, with limited revision by L.R.D. Project Team. Specialist information compiled from field investigation, and related air photo interpretation, as indicated in the 'Soil Survey Areas' diagram. This map accompanies a Land Resources Study 'The Soils of Sabah,' published by the Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, KT6 7DY.

THE SOILS OF SABAH



Key	Association	Landform	Parent materials	Main soil units
1	Wetland	Tidal swamps	Sulphate alluvium, orthic and alluvium	Thionic Fluvent, Dystric Histosol, Thionic Gleysol
2	Uluken	Beaches	Calcareous alluvium	Gelisar Regosol, Humic Gleysol
3	Tanjung Ayu	Beaches	Alluvium	Dystric and Eutric Regosols, Humic, Dystric and Eutric Gleysols, Gleysol Podsol
4	Tuaran	Meadow belts	Alluvium	Eutric Fluvent, Gleysol, Dystric and Eutric Cambisols, Humic, Dystric and Eutric Gleysols
5	Kinabatangan	Floodplains	Alluvium	Gleysol, Aeric, Gleysol Luvisol, Humic, Dystric and Eutric Gleysols
6	Sipi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols, Dystric Histosol
7	Klias	Swamps	Peat and alluvium	Dystric Histosol, Humic Gleysol
8	Enakik	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Dystric Fluvent, Gleysol, Ferric and Orthic Luvisols, Ferric and Orthic Acrisols
9	Karamak	Valley floors and terraces	Alluvium and alluvium derived from ultrabasic rocks	Gleysol, Dystric and Eutric Fluvent, Ferric and Orthic Luvisols
10	Labau	Valley floors and terraces	Alluvium	Gleysol and Dystric Cambisols, Dystric and Eutric Fluvent, Gleysol and Orthic Acrisols
11	Bankor	Terraces	Alluvium	Dystric and Eutric Gleysols, Gleysol Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleysol Acrisols, Gleysol Podsol
13	Kapayan	Terraces	Alluvium	Gleysol Podsol, Gleysol Acrisol
14	Soak	Terraces	Alluvium	Gleysol and Orthic Acrisols, Gleysol Podsol, Dystric Gleysol
15	Sipitang	Swamps	Peat and alluvium	Dystric Histosol, Gleysol Podsol
16	Sinarun	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol, Dystric Gleysol, Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleysol Luvisols
18	Pinosak	Plateau with gently undulating surface and dissected terraces with slopes up to 25°	Colluvium, sandstone and mudstone	Gleysol Podsol, Gleysol and Orthic Acrisols, Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol, Dystric Gleysol, Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferrisol, Orthic Acrisol, Orthic Luvisol, Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols, Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleysol, Ferric and Orthic Acrisols, Gleysol, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateau with flat to gently undulating surface	Basic igneous rocks	Xanthic and Orthic Ferrisols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol, Orthic and Chromic Luvisols
25	Silabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleysol, Ferric and Orthic Acrisols, Gleysol, Ferric, Chromic and Orthic Luvisols
26	Rumiid	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleysol, Ferric and Orthic Acrisols, Gleysol, Ferric, Chromic and Orthic Luvisols
27	Sigit	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols, Orthic Luvisol
28	Apa	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Rhodic Ferrisol, Orthic Acrisol, Eutric Cambisol
29	Kalabukan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols, Ferric, Chromic and Orthic Luvisols
30	Mauing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol, Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleysol Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleysol Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols, Ferric, Chromic and Orthic Luvisols
34	Bewang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol, Orthic Luvisol
35	Dugat	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols, Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol, Chromic and Orthic Luvisols, Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gemantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol, Rendzina
39	Lekan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol, Dystric Cambisol
40	Bang	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol, Dystric Cambisol
41	Bulu Bulu	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferrisols, Eutric Cambisol, Chromic and Orthic Luvisols, Lithosol
42	Mentapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols, Eutric Cambisol, Lithosol
43	Tingat	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol, Lithosol, Ferric Luvisol
44	Mulubok	Mountains	Igneous rocks, sandstone, mudstone and silt	As for Associations 41, 42 and 43 with Chromic Cambisols and Lithosols on silt
45	Wullerdorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol, Lithosol
46	Gumpat	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol, Orthic Luvisol, Dystric and Eutric Cambisols, Lithosol
47	Cruaker	Mountains	Sandstone and mudstone	Orthic Acrisol, Chromic and Dystric Cambisols, Lithosol
48	Milau	Mountain cuestas	Sandstone and mudstone	Orthic Acrisol, Dystric Cambisol, Gleysol Podsol, Humic Gleysol, Lithosol
49	Serufeng	Dip slopes of mountain cuestas	Sandstone	Gleysol Podsol, Orthic Acrisol
50	Trumadi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleysol and Orthic Acrisols, Gleysol Podsol, Humic Gleysol, Dystric Histosol, Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol, Dystric Histosol, Lithosol

D.O.S. 3185J
Disebabkan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah.
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Hatchplot: Kerajaan Terperihara
Kerajaan Persekutuan Persekutuan Negara Malaysia, wakil D-dipeti (di bawah peta ini atau sebarang bahagian daripadanya) di-salin.
Government Copyright Reserved
The approval of the Director of National Mapping, Malaysia, is necessary before this map or any portion thereof may be copied.



Dicetak untuk Directorate of Overseas Surveys oleh Crown
Printed for the Directorate of Overseas Surveys by the Ordnance Survey

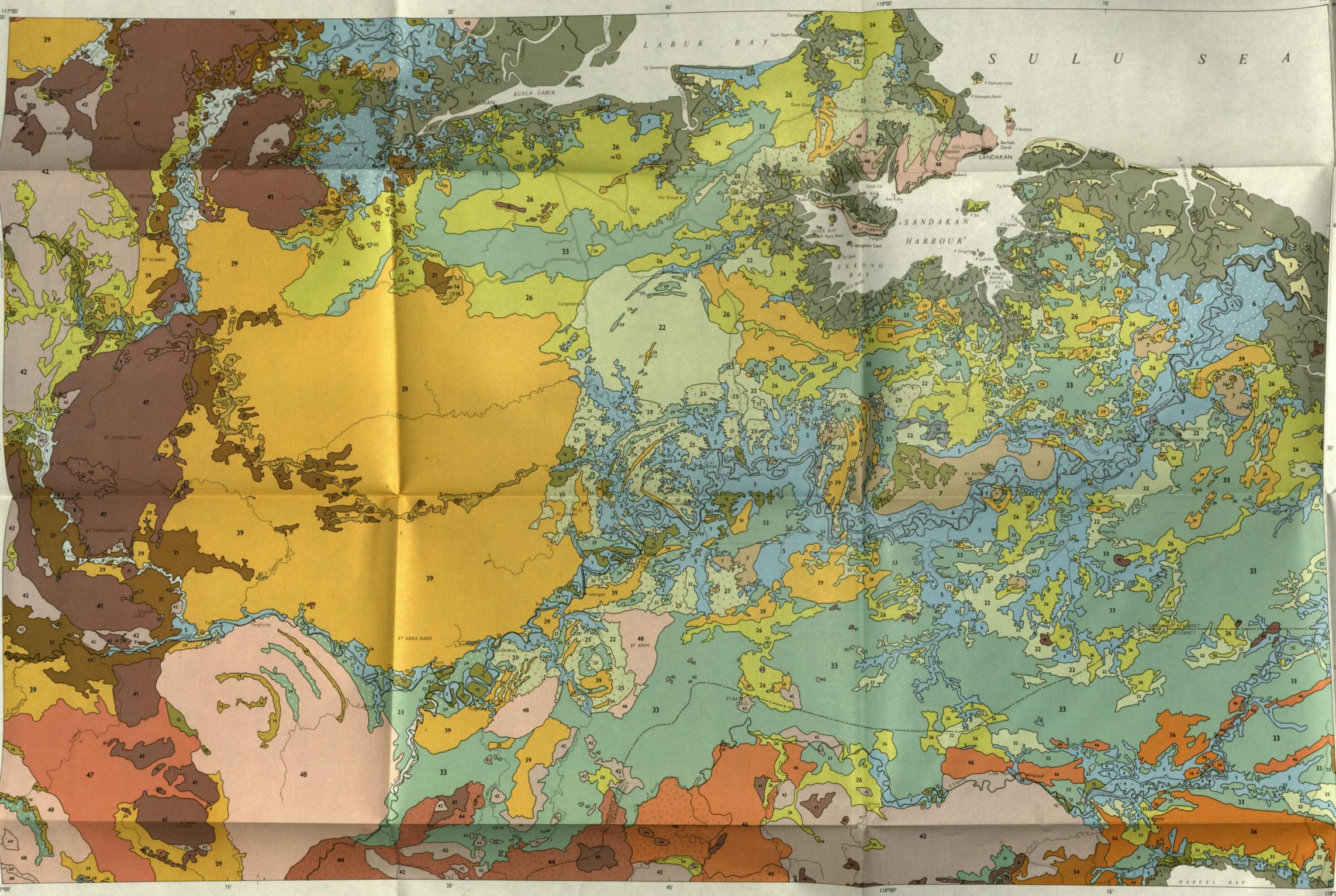
Peta asas disediakan dari punca-punca terbaik yang ada. Ia adalah terhad oleh Pasukan Rancangan L.R.D. Maklumat pakar disuikan dan dipersekitar luar dan dalam yang berkaitan seperti yang ditunjukkan di gambaran 'Soil Survey of Sabah'.

Peta ini berlandaskan dengan Kajian Sumber Tanah 'The Soil Survey of Sabah' diterbitkan oleh Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England.

Base map derived from best available sources, with L.R.D. Project Team. Specialist information compiled from field investigation, photo interpretation, as indicated in the 'Soil Survey of Sabah' published by the Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England.

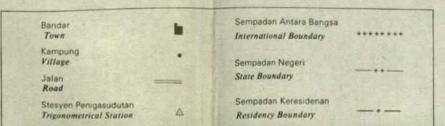
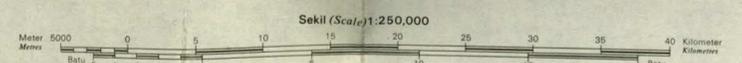
THE SOILS OF SABAH

MALAYSIA (SABAH) 1:250,000



Key	Association	Landform	Parent materials	Main soil units
1	Wetland	Tidal swamps	Sulphidic alluvium, sulphidic peat and alluvium	Thionic Fluvisol; Dystric Histosol; Thionic Gleysol
2	Uluakan	Beaches	Calcareous alluvium	Calcic Regosol; Humic Gleysol
3	Tanjung Aru	Beaches	Alluvium	Dystric and Eutric Regosols; Humic, Dystric and Eutric Gleysols; Gleyic Podzol
4	Tuaran	Meadow belts	Alluvium	Eutric Fluvisol; Gleyic, Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinabatangan	Floodplains	Alluvium	Gleyic Acrisol; Gleyic Luvisol; Humic, Dystric and Eutric Gleysols
6	Sapi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Klias	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Binatik	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Orthic Ferrasol; Gleyic, Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Karamak	Valley floors and terraces	Alluvium and alluvium derived from basic/ultrabasic rocks	Gleyic, Chromic and Orthic Luvisols; Gleyic and Eutric Cambisols; Eutric Fluvisol
10	Labau	Valley floors and terraces	Alluvium	Gleyic and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleyic and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleyic Luvisol
12	Brantan	Terraces	Alluvium	Orthic, Ferric and Gleyic Acrisols; Gleyic Podzol
13	Kapayan	Terraces	Alluvium	Gleyic Podzol; Gleyic Acrisol
14	Sook	Terraces	Alluvium	Gleyic and Orthic Acrisols; Gleyic Podzol; Dystric Gleysol
15	Sipitang	Swamps	Peat and alluvium	Dystric Histosol; Gleyic Podzol
16	Sinaran	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleyic Luvisols
18	Pinosok	Plateau with gently undulating surface and dissected terraces with slopes up to 20°	Colluvium, sandstone and mudstone	Gleyic Podzol; Gleyic and Orthic Acrisols; Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferrasol; Orthic Acrisol; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateau with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferrasols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol; Orthic and Chromic Luvisols
25	Sitabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
26	Rumidi	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
27	Sipi	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Apen	Moderate hills: slopes 15-20°	Intermediate and acid igneous rocks	Rhodic Ferrasol; Orthic Acrisol; Eutric Cambisol
29	Kalabakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Mawing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleyic Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleyic Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Beruang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol; Orthic Luvisol
35	Dagat	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols; Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lakan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol
40	Bang	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Dystric Cambisol
41	Bulu Bidu	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferrasols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Mentapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagat	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Malubok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Associations 41, 42 and 47 with Chromic Cambisols and Lithosols on chert
45	Wullardorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisol; Chromic and Dystric Cambisols; Lithosol
48	Malau	Mountain cuestas	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol; Gleyic Podzol; Humic Gleysol; Lithosol
49	Serudong	Diplopes of mountain cuestas	Sandstone	Gleyic Podzol; Orthic Acrisol
50	Trunadi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleyic and Orthic Acrisols; Gleyic Podzol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

1180F
... oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British
... Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri
... by the British Government's Overseas Development Administration
... Resources Division) United Kingdom, 1974, for the Sabah Government.
... Kerajaan Terpelihara
... ran Pengarah Pemetaan Negara, Malaysia, wajib di-dipatu
... m peta ini atau sebahagian daripadanya di-salin.
... Copyright Reserved
... of the Director of National Mapping, Malaysia, is
... before this map or any portion thereof may be copied.



Dicetak untuk Directorate of Overseas Surveys oleh Ordnance
Printed for the Directorate of Overseas Surveys by the Ordnance

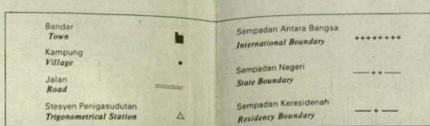
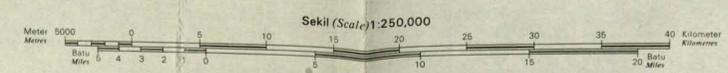
Peta asas diperolehi dari punca-punca terbaik yang ada, dengan terhad oleh Pasukan Rancangan L.R.D.
Maklumat pakar disusun dari penyelidikan luar dan tafsiran foto yang berkaitan seperti yang ditunjukkan di gambarajah 'Kawasan Tanah'.
Peta ini berlandaskan dengan Kajian Sumber Tanah 'The Soils of Sabah' diterbitkan oleh Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, KT6 7J.
Base map derived from best available sources, with limited revision by L.R.D. Project Team.
Specialist information compiled from field investigation, and re-photograph interpretation, as indicated in the 'Soil Survey Areas' of this map.
This map accompanies a Land Resources Study 'The Soils of Sabah' published by the Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, KT6 7J.

PETA INI BUKAN LAH BUKTI YANG SAHAI UNTUK PERENCANAAN SEMPADAN
THIS MAP IS NOT AN AUTHORITY ON BOUNDARIES



Key	Association	Landform	Parent materials	Main soil units
1	Waton	Tidal swamps	Sulphidic alluvium, sulphidic peat and alluvium	Thionic Fluvisol; Dystric Histosol; Thionic Gleysol
2	Uluhan	Beaches	Calcareous alluvium	Calcic Regosol; Humic Gleysol
3	Tanjung Aru	Beaches	Alluvium	Dystric and Eutric Regosols; Humic, Dystric and Eutric Gleysols; Gleysol Podzol
4	Tuaran	Meander belts	Alluvium	Eutric Fluvisol; Gleysol, Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinabatangan	Floodplains	Alluvium	Gleysol Acrisol; Gleysol Luvisol; Humic, Dystric and Eutric Gleysols
6	Sapi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Klias	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Binalik	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Orthic Ferralsol; Gleysol, Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Karamuk	Valley floors and terraces	Alluvium and alluvium derived from basic/ultrabasic rocks	Gleysol, Chromic and Orthic Luvisols; Gleysol and Eutric Cambisols; Eutric Fluvisol
10	Labau	Valley floors and terraces	Alluvium	Gleysol and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleysol and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleysol Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleysol Acrisols; Gleysol Podzol
13	Kapayan	Terraces	Alluvium	Gleysol Podzol; Gleysol Acrisol
14	Sook	Terraces	Alluvium	Gleysol and Orthic Acrisols; Gleysol Podzol; Dystric Gleysol
15	Sipitang	Swamps	Peat and alluvium	Dystric Histosol; Gleysol Podzol
16	Sinarun	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleysol Luvisols
18	Pinouak	Plateau with gently undulating surface and dissected terraces with slopes up to 25°	Calcareous, sandstone and mudstone	Gleysol Podzol; Gleysol and Orthic Acrisols; Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferralsol; Orthic Acrisol; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleysol, Ferric and Orthic Acrisols; Gleysol, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateaus with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferralsols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol; Orthic and Chromic Luvisols
25	Silabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleysol, Ferric and Orthic Acrisols; Gleysol, Ferric, Chromic and Orthic Luvisols
26	Rumidi	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleysol, Ferric and Orthic Acrisols; Gleysol, Ferric, Chromic and Orthic Luvisols
27	Sipi	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Apee	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Rhodic Ferralsol; Orthic Acrisol; Eutric Cambisol
29	Kalabakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Mawing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleysol Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleysol Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Beruang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol; Orthic Luvisol
35	Dagat	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols; Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lukan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol
40	Bang	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Dystric Cambisol
41	Bidu Bidu	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferralsols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Mentapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagat	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Mahubok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Associations 41, 42 and 47 with Chromic Cambisols and Lithosols on chert
45	Wullersdorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisol; Chromic and Dystric Cambisols; Lithosol
48	Malau	Mountain crevices	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol; Gleysol Podzol; Humic Gleysol; Lithosol
49	Serudong	Dip slopes of mountain crevices	Sandstone	Gleysol Podzol; Orthic Acrisol
50	Trusmi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleysol and Orthic Acrisols; Gleysol Podzol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

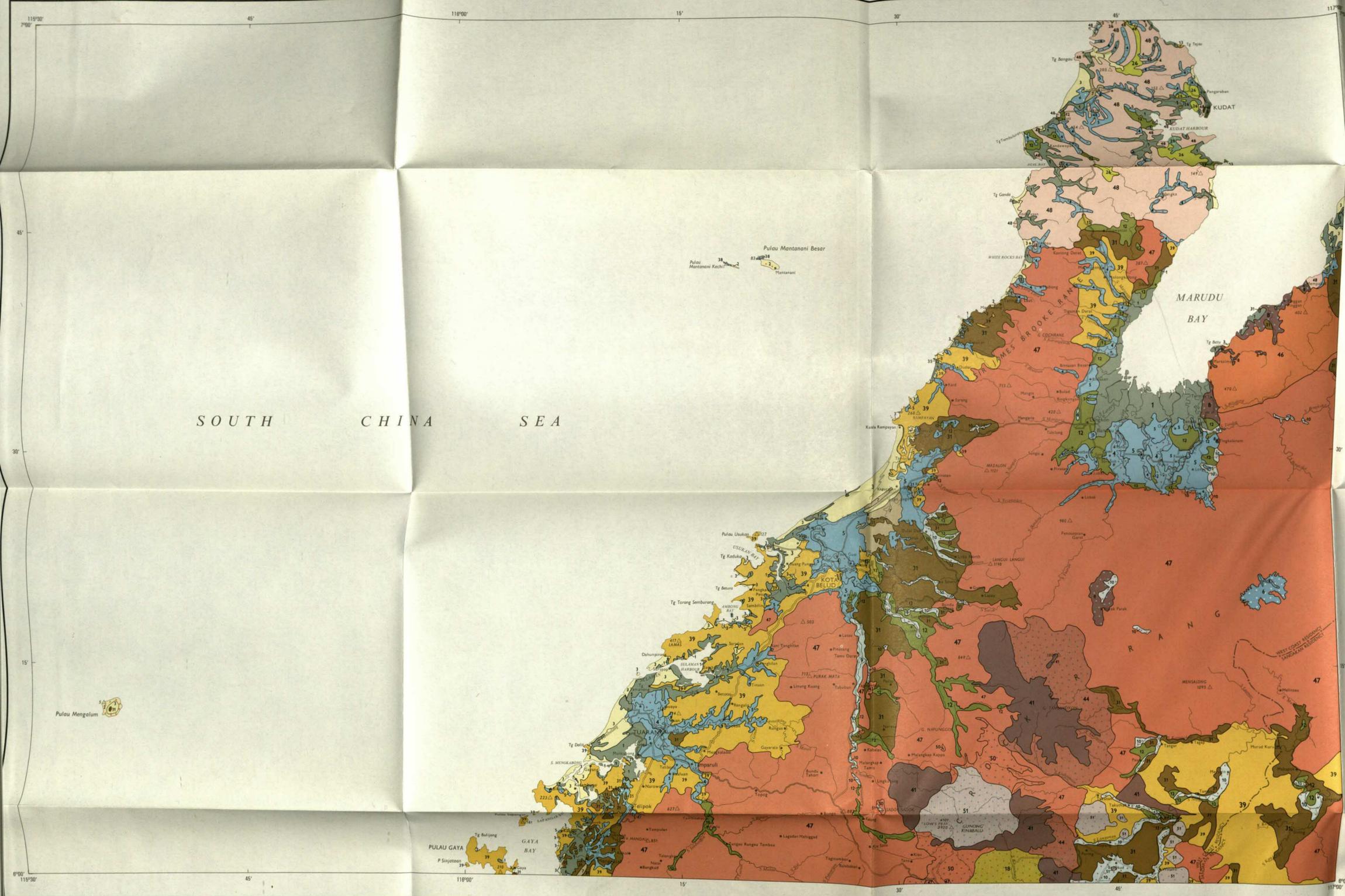
O.S. 3180C
Ishbitkan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Kerajaan Negeri Sabah
Ishbitkan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Kerajaan Negeri Sabah
Ishbitkan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Kerajaan Negeri Sabah



Dicetak untuk Directorate of Overseas Surveys oleh Ordnance Survey
Printed for the Directorate of Overseas Surveys by the Ordnance Survey
Peta ini berdasarkan dengan Kajian Sumber Tanah 'The Soils of Sabah' diterbitkan oleh Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, K.T.
Base map derived from best available sources, with limited field investigation, and photo interpretation, as indicated in the 'Soil Survey Areas' map published by the Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, K.T.

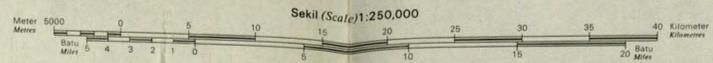
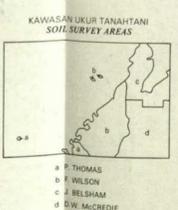
PETA INI BUKAN LAH BUKTI YANG SAMAHE UNTOK PERSENYAAN SEMPADAN
THIS MAP IS NOT AN AUTHORITY ON BOUNDARIES

THE SOILS OF SABAH



Key	Association	Landform	Parent materials	Main soil units
1	Wetlan	Tidal swamps	Sulphidic alluvium, sulphidic sand and alluvium	Thionic Fluvisol; Dystric Histosol; Thionic Gleysol
2	Uluakan	Beaches	Calcareous alluvium	Calsic Regosol; Humic Gleysol
3	Tanjung Ara	Beaches	Alluvium	Dystric and Eutric Regosols; Humic, Dystric and Eutric Gleysols; Gleys Podzol
4	Tuaran	Meander belts	Alluvium	Eutric Fluvisol; Gleys, Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinabatangan	Floodplains	Alluvium	Gleys; Acrisols; Gleys Luvisol; Humic, Dystric and Eutric Gleysols
6	Sapi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Klias	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Binalak	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Orthic Ferrasol; Gleys; Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Karamauk	Valley floors and terraces	Alluvium and alluvium derived from basic/ultrabasic rocks	Gleys; Chromic and Ferric Luvisols; Gleys and Eutric Cambisols; Eutric Fluvisol
10	Labau	Valley floors and terraces	Alluvium	Gleys and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleys and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleys Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleys Acrisols; Gleys Podzol
13	Kepayan	Terraces	Alluvium	Gleys Podzol; Gleys Acrisols
14	Sook	Terraces	Alluvium	Gleys and Orthic Acrisols; Gleys Podzol; Dystric Gleysol
15	Sipitang	Swamps	Peat and alluvium	Dystric Histosol; Gleys Podzol
16	Sinarun	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisols; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleys Luvisols
18	Pinosuk	Plateau with gently undulating surface and dissected terraces with slopes up to 25°	Calcareous sandstone and mudstone	Gleys Podzol; Gleys and Orthic Acrisols; Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferrasol; Orthic Acrisols; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleys; Ferric and Orthic Acrisols; Gleys; Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateaus with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferrasols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisols; Orthic and Chromic Luvisols
25	Sitabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleys; Ferric and Orthic Acrisols; Gleys; Ferric, Chromic and Orthic Luvisols
26	Rumidi	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleys; Ferric and Orthic Acrisols; Gleys; Ferric, Chromic and Orthic Luvisols
27	Sipit	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Apes	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Rhodic Ferrasol; Orthic Acrisols; Eutric Cambisol
29	Kalabakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Mawing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisols; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleys Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Mudstone, sandstone and alluvium	Ferric, Orthic and Gleys Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Bersang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisols; Orthic Luvisol
35	Dajat	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols; Orthic Acrisols
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisols; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lokan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisols; Dystric Cambisol
40	Bing	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisols; Dystric Cambisol
41	Bidu Bidu	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferrasols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Mentapok	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagat	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Malubok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Associations 41, 42 and 47 with Chromic Cambisols and Lithosols on chert
45	Wullandorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisols; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisols; Chromic and Dystric Cambisols; Lithosol
48	Malau	Mountain crevices	Sandstone and mudstone	Orthic Acrisols; Dystric Cambisol; Gleys Podzol; Humic Gleysol; Lithosol
49	Serudang	Dipslopes of mountain crevices	Sandstone	Gleys Podzol; Orthic Acrisols
50	Trusmi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleys and Orthic Acrisols; Gleys Podzol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

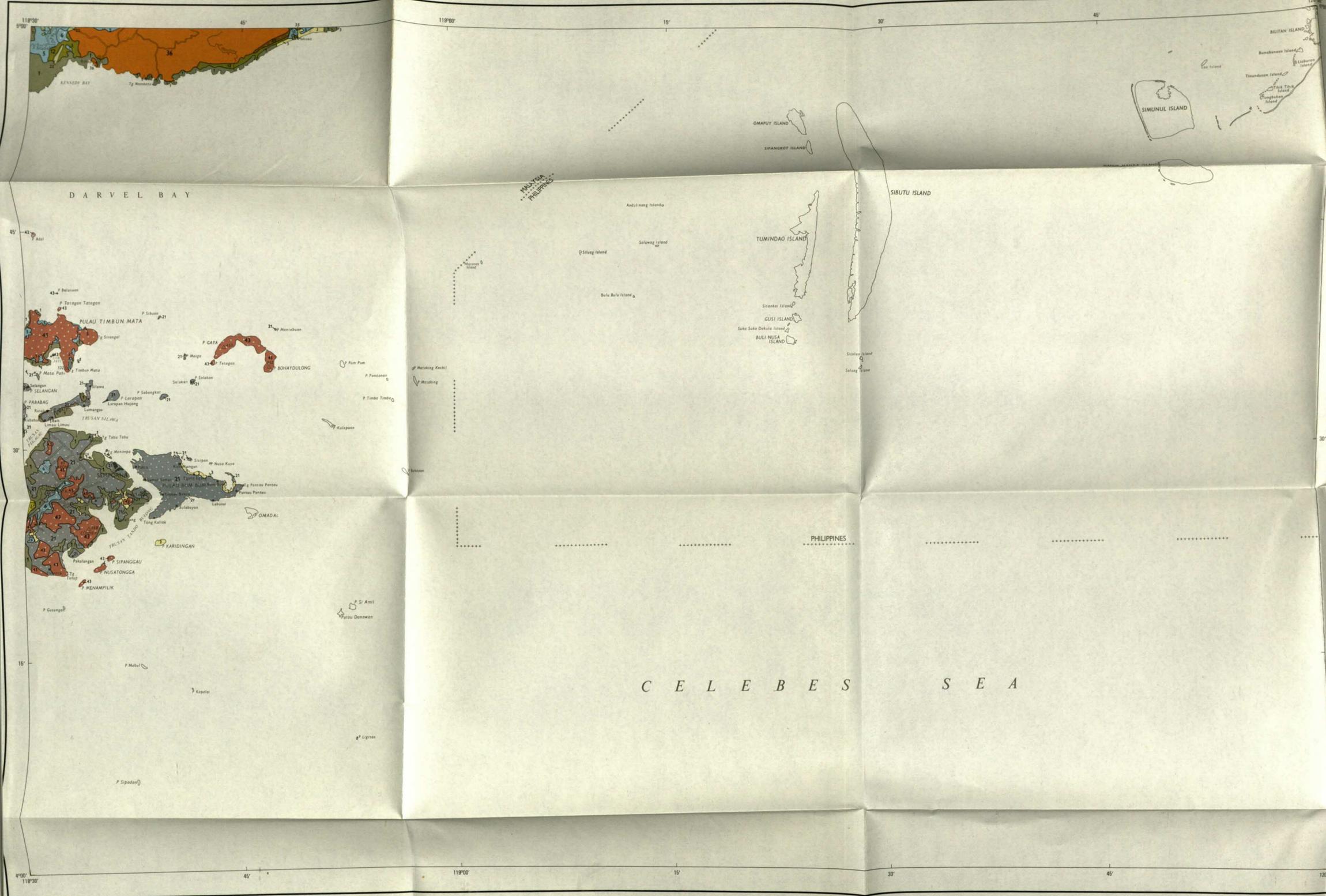
O.S. 31808
Dioritikan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah.
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Hakcipta: Kerajaan Terpelihara
Kebertanian Pengarah Pemetaan Negara, Malaysia, walaik di-digesti ini-below peta ini atau sebahagian daripadanya di-salin.
Government: Copyright Reserved
The approval of the Director of National Mapping, Malaysia, is necessary before this map or any portion thereof may be copied.



Dicetak untuk Directorate of Overseas Surveys oleh Ordnance Survey, London.
Printed for the Directorate of Overseas Surveys by the Ordnance Survey, London.
Peta asas diperolehi dari sumber-sumber terbaik yang ada, dengan terhad oleh Pasukan Rancangan L.R.D.
Maklumat pakar disusun dari penyelidikan luar, dan tafsiran yang berkaitan seperti yang ditunjukkan di gambarajah "Kawalan Tanah".
Peta ini berlampiran dengan Kajian Sumber Tanah "The Soils of Sabah" diterbitkan oleh Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, K.T.G.
Base map derived from best available sources, with limited re-interpretation.
Specialist information compiled from field investigation, and re-interpretation, as indicated in the "Soil Survey Areas".
This map accompanies a Land Resources Study "The Soils of Sabah" published by the Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England.

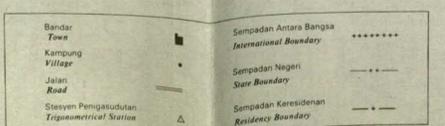
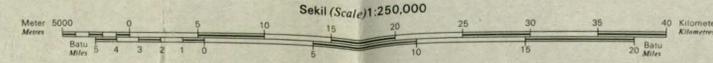
MALAYSIA (SABAH) 1:250,000

THE SOILS OF SABAH



Key	Association	Landform	Parent materials	Main soil units
1	Weston	Tidal swamps	Sulphidic alluvium, sulphidic peat and alluvium	Thionic Fluvisol; Dystric Histosol; Thionic Gleysol
2	Uluakan	Beaches	Calcareous alluvium	Calcic Regosol; Humic Gleysol
3	Tanjung Ara	Beaches	Alluvium	Dystric and Eutric Regosol; Humic, Dystric and Eutric Gleysols; Gleyic Podzol
4	Tuaran	Meadow belts	Alluvium	Eutric Fluvisol; Gleyic, Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinahatangan	Floodplains	Alluvium	Gleyic Acrisol; Gleyic Luvisol; Humic, Dystric and Eutric Gleysols
6	Sapi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Kilas	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Binalik	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Orthic Ferralsol; Gleyic, Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Karamauk	Valley floors and terraces	Alluvium and alluvium derived from basaltic volcanic rocks	Gleyic, Chromic and Orthic Luvisols; Gleyic, Ferric and Orthic Acrisols; Ferric Podzol
10	Labau	Valley floors and terraces	Alluvium	Gleyic and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleyic and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleyic Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleyic Acrisols; Gleyic Podzol
13	Kepayan	Terraces	Alluvium	Gleyic Podzol; Gleyic Acrisol
14	Sook	Terraces	Alluvium	Gleyic and Orthic Acrisols; Gleyic Podzol; Dystric Gleysol
15	Siptang	Swamps	Peat and alluvium	Dystric Histosol; Gleyic Podzol
16	Sinarun	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleyic Luvisols
18	Ponauk	Plateau with gently undulating surface and dissected terraces with slopes up to 20°	Colluvium, sandstone and mudstone	Gleyic Podzol; Gleyic and Orthic Acrisols; Ferric and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferralsol; Orthic Acrisol; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateau with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferralsols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol; Orthic and Chromic Luvisols
25	Sitabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
26	Rumidi	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
27	Sipit	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Arau	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Rhodic Ferralsol; Orthic Acrisol; Eutric Cambisol
29	Kalabakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Mawing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleyic Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleyic Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Beruang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol; Orthic Luvisol
35	Dagat	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols; Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lokan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol
40	Bang	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Dystric Cambisol
41	Bidu Bidu	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferralsols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Mentapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagt	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Makubok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Associations 41, 42 and 43 with Chromic Cambisols and Lithosols on chert
45	Wallerdorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisol; Chromic and Dystric Cambisols; Lithosol
48	Malau	Mountain cuestas	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol; Gleyic Fluvisol; Humic Gleysol; Lithosol
49	Serdong	Dip slopes of mountain cuestas	Sandstone	Gleyic Podzol; Orthic Acrisol
50	Trusmi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleyic and Orthic Acrisols; Gleyic Podzol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

D.O.S. 3180K
Diberitaskan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah.
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Hakcipta Kerajaan Terpelihara
Kebersihan Pengarah Pemetaan Negara, Malaysia, wajib di-dipati sa-belum peta ini atau sebahagian daripadanya di-salin.
Government Copyright Reserved
The approval of the Director of National Mapping, Malaysia, is necessary before this map or any portion thereof may be copied.



Ditakar untuk Directorate of Overseas Surveys oleh Ordnance Survey.
Printed for the Directorate of Overseas Surveys by the Ordnance Survey.
Peta asas diperolehi dari punca-punca terbaik yang ada, dan ditafsir oleh Pejabat Pengukuran L.R.D. Maklumat pakar disusun dan penyelidikan luar dan tafsiran yang berkaitan seperti yang ditunjukkan di gambarajah. Kajian ini berlandaskan dengan kajian Sumber Tanah The Soil Survey of Sabah yang diterbitkan oleh Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, U.K.
Base map derived from best available sources, with limited L.R.D. Project Team Specialist information compiled from field investigation, and photo interpretation, as indicated in the Soil Survey Area. This map accompanies a Land Resources Study 'The Soils of Sabah' published by the Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, U.K.

MALAYSIA (SABAH) 1:250,000

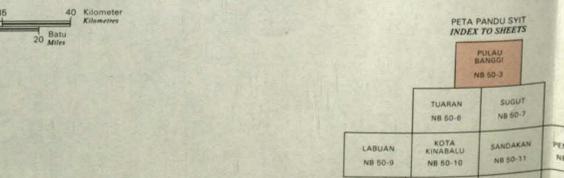
THE SOILS OF SABAH



Key	Association	Landform	Parent materials	Main soil units
1	Wetan	Tidal swamps	Sulphatic alluvium, sulphatic peat and alluvium	Thomson Fluvisol; Dystric Histosol; Thomon Gleysol
2	Uluakan	Beaches	Calcareous alluvium	Calcic Reggalsol; Humic Gleysol
3	Tanjung Aru	Beaches	Alluvium	Dystric and Eutric Reggalsol; Humic, Dystric and Eutric Gleysols; Gleyic Podzol
4	Tuaran	Meander belts	Alluvium	Eutric Fluvisol; Gleyic, Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinabatangan	Floodplains	Alluvium	Gleyic Acrisol; Gleyic Luvisol; Humic, Dystric and Eutric Gleysols
6	Sapi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Klias	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Binaiak	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Orthic Ferralsol; Gleyic, Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Karamauk	Valley floors and terraces	Alluvium and alluvium derived from basalt ultrabasic rocks	Gleyic, Chromic and Orthic Luvisols; Gleyic and Eutric Cambisols; Dystric Fluvisols; Gleyic and Orthic Acrisols
10	Labau	Valley floors and terraces	Alluvium	Gleyic and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleyic and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleyic Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleyic Acrisols; Gleyic Podzol
13	Kepeyan	Terraces	Alluvium	Gleyic Podzol; Gleyic Acrisol
14	Sook	Terraces	Alluvium	Gleyic and Orthic Acrisols; Gleyic Podzol; Dystric Gleysol
15	Sipitang	Swamps	Peat and alluvium	Dystric Histosol; Gleyic Podzol
16	Sinarun	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleyic Luvisols
18	Pinosuk	Plateau with gently undulating surface and dissected terraces with slopes up to 25°	Colluvium, sandstone and mudstone	Gleyic Podzol; Gleyic and Orthic Acrisols; Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferralsol; Orthic Acrisol; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateaus with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferralsols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol; Orthic and Chromic Luvisols
25	Silabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
26	Rumidi	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
27	Sipit	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Apa	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Rhodic Ferralsol; Orthic Acrisol; Eutric Cambisol
29	Kalabakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Mawing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleyic Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleyic Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Beruang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol; Orthic Luvisol
35	Dogat	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols; Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lukan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol
40	Bang	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Dystric Cambisol
41	Bidu Bidu	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferralsols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Mentapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagat	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Mahubok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Associations 41, 42 and 47 with Chromic Cambisols and Lithosols on chert
45	Wullerdorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisol; Chromic and Dystric Cambisols; Lithosol
48	Malau	Mountain cuestas	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol; Gleyic Podzol; Humic Gleysol; Lithosol
49	Serudong	Dipslopes of mountain cuestas	Sandstone	Gleyic Podzol; Orthic Acrisol
50	Trusmi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleyic and Orthic Acrisols; Gleyic Podzol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

D.O.S. 3180A
Ditertbitkan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British (Bahagian Sumber Tanah) United Kingdom, 1974, untuk Kerajaan Negeri Sabah.
Published by the British Government's Overseas Development Administration (Land Resources Division) United Kingdom, 1974, for the Sabah Government.
Kerajaan Terengganu
Cetakan Pengarah Pemetaan Negara, Malaysia, wajib dipaparkan sebelum peta ini atau sebahagian daripadanya di-salin.
Government Copyright Reserved
The approval of the Director of National Mapping, Malaysia, is necessary before this map or any portion thereof may be copied.

SYIT TANAHTANI SOILS SHEET PULAU BANGGI NB 50-3



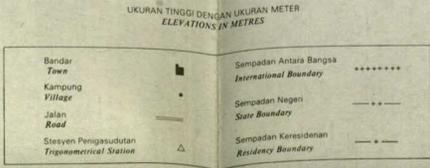
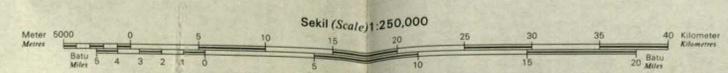
Dicetak untuk Directorate of Overseas Surveys oleh Ordnance Survey
Printed for the Directorate of Overseas Surveys by the Ordnance Survey
Peta asas didapatkan dari punca-punca terbaik yang ada, dengan pen-
terhadap oleh Pasukan Rancangan L.R.D.
Maklumat pakar disusun dari penyelidikan luar dan tafsiran foto
yang berkaitan seperti yang ditunjukkan di gambarajah "Kawasan
Tanahtani".
Peta ini beritimpunan dengan Kajian Sumber Tanah "The Soils of
Sabah" diterbitkan oleh Land Resources Division, Overseas Develop-
ment Administration, Tolworth Tower, Surbiton, Surrey, England, KT6 7J.
Base map derived from best available sources, with limited re-
vision by L.R.D. Project Team.
Specialist information compiled from field investigation, and re-
lated to photo interpretation, as indicated in the "Soils of Sabah"
This map accompanies a Land Resources Study "The Soils of
Sabah" published by the Land Resources Division, Overseas Devel-
opment Administration, Tolworth Tower, Surbiton, Surrey, England, KT6 7J.

THE SOILS OF SABAH

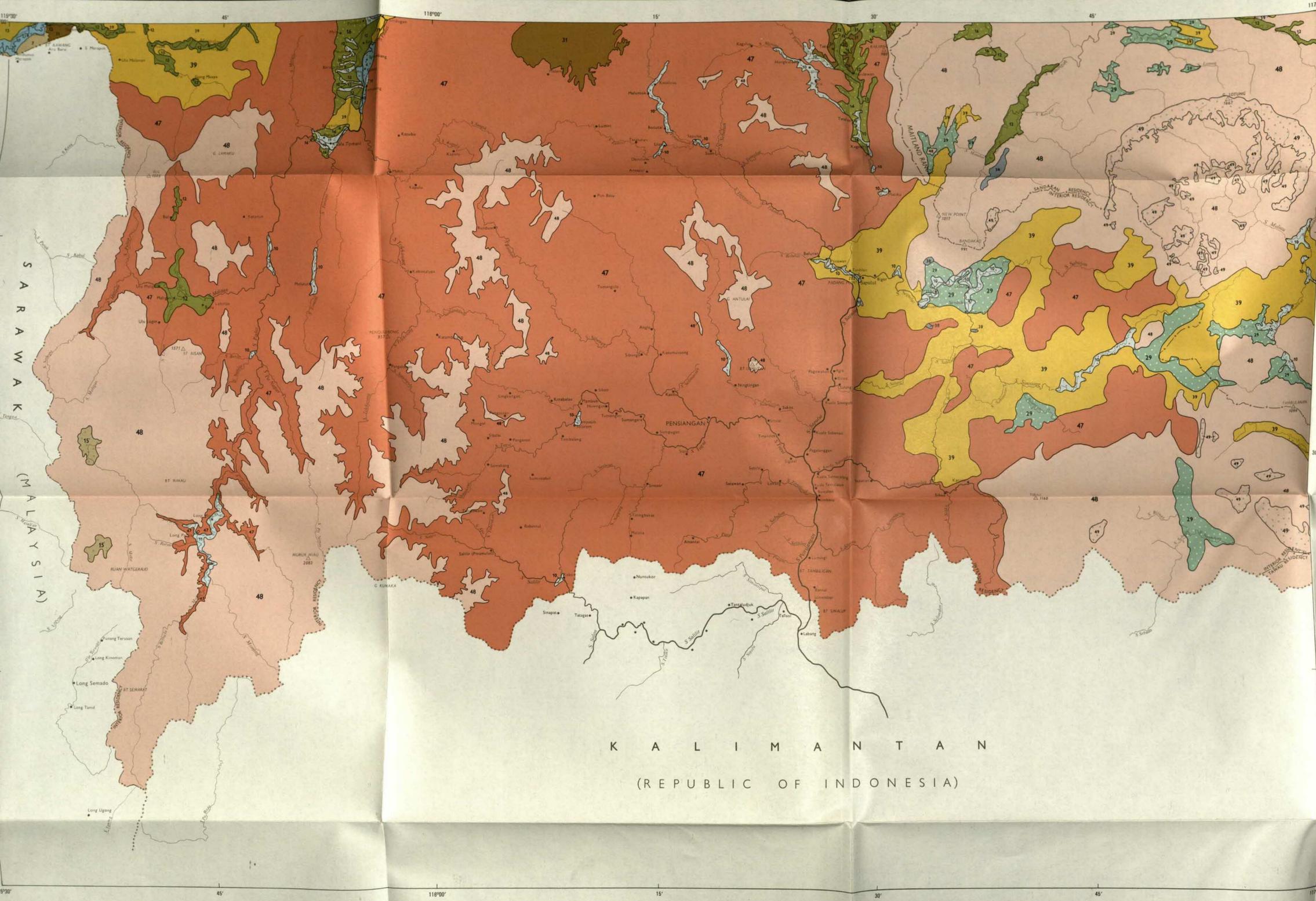
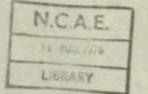


Key	Association	Landform	Parent materials	Main soil units
1	Wetson	Tidal swamps	Sulphidic alluvium, sulphidic sand and alluvium	Thionic Fluvisol; Dystric Histosol; Thionic Gleysol
2	Usukan	Beaches	Calcareous alluvium	Calcic Regosol; Humic Gleysol
3	Tanjung Aru	Beaches	Alluvium	Dystric and Eutric Regosol; Humic, Dystric and Eutric Gleysols; Gleyic Podsol
4	Tuaran	Meander belts	Alluvium	Eutric Fluvisol; Gleyic, Dystric and Eutric Cambisols; Humic, Dystric and Eutric Gleysols
5	Kinabatangan	Floodplains	Alluvium	Gleyic Acrisol; Gleyic Luvisol; Humic, Dystric and Eutric Gleysols
6	Sapi	Swamps	Alluvium and peat	Humic, Dystric and Eutric Gleysols; Dystric Histosol
7	Klias	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
8	Binatik	Valley floors and terraces	Alluvium derived from ultrabasic rocks	Orthic Ferrasol; Gleyic, Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
9	Karamak	Valley floors and terraces	Alluvium and alluvium derived from ultrabasic rocks	Orthic Ferrasol; Gleyic, Ferric and Orthic Luvisols; Ferric and Orthic Acrisols
10	Labau	Valley floors and terraces	Alluvium	Gleyic and Dystric Cambisols; Dystric and Eutric Fluvisols; Gleyic and Orthic Acrisols
11	Binkor	Terraces	Alluvium	Dystric and Eutric Gleysols; Gleyic Luvisol
12	Brantian	Terraces	Alluvium	Orthic, Ferric and Gleyic Acrisols; Gleyic Podsol
13	Kepayan	Terraces	Alluvium	Gleyic Podsol; Gleyic Acrisol
14	Sook	Terraces	Alluvium	Gleyic and Orthic Acrisols; Gleyic Podsol; Dystric Gleysol
15	Sipitang	Swamps	Peat and alluvium	Dystric Histosol; Humic Gleysol
16	Sinarum	Dissected terraces: slopes 15-25°	Alluvium, sandstone and mudstone	Orthic Acrisol; Dystric Gleysol; Dystric Cambisol
17	Tungku	Terraces	Calcareous alluvium	Chromic and Gleyic Luvisols
18	Pinouk	Plateau with gently undulating surface and dissected terraces with slopes up to 20°	Colluvium, sandstone and mudstone	Gleyic Podsol; Gleyic and Orthic Acrisols; Humic and Dystric Gleysols
19	Tawai	Plateau with gently undulating surface	Ironstone and alluvium derived from ultrabasic rocks	Dystric Histosol; Dystric Gleysol; Dystric Cambisol
20	Tapang	Low hills (slopes 0-15°), terraces and valley floors	Basic igneous rocks and alluvium	Xanthic Ferrasol; Orthic Acrisol; Orthic Luvisol; Eutric Gleysol
21	Semporna	Very low hills: slopes 0-5°	Limestone	Calcic and Chromic Luvisols; Rendzina
22	Lungmanis	Very low hills (slopes 0-15°) and valley floors	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
23	Table	Dissected plateaus with flat to gently undulating surfaces	Basic igneous rocks	Xanthic and Orthic Ferrasols
24	Orchid Plateau	Plateau of low hills: slopes 15-25°	Basic and intermediate igneous rocks	Orthic Acrisol; Orthic and Chromic Luvisols
25	Silabukan	Low hills and minor valley floors: slopes 0-15°	Mudstone and alluvium	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
26	Rumidi	Low hills and minor valley floors: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Gleyic, Ferric and Orthic Acrisols; Gleyic, Ferric, Chromic and Orthic Luvisols
27	Sipit	Low hills: slopes 0-15°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Orthic Luvisol
28	Anas	Moderate hills: slopes 15-25°	Intermediate and acid igneous rocks	Rhodic Ferrasol; Orthic Acrisol; Eutric Cambisol
29	Kalabakan	Moderate hills: slopes 0-20°	Mudstone and sandstone	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
30	Mawing	Moderate hills: slopes >25°	Mudstone and sandstone	Orthic Acrisol; Dystric Cambisol
31	Dalit	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Orthic, Ferric and Gleyic Acrisols
32	Tengah Nipah	Moderate hills and minor valley floors: slopes 0-20°	Sandstone, mudstone and alluvium	Ferric, Orthic and Gleyic Acrisols
33	Kretam	Moderate hills: slopes 0-20°	Mudstone, sandstone and miscellaneous rocks	Ferric and Orthic Acrisols; Ferric, Chromic and Orthic Luvisols
34	Beruang	High hills: slopes 15-25°	Basic igneous rocks	Ferric Acrisol; Orthic Luvisol
35	Dagat	Moderate hills: slopes 10-20°	Tuffaceous rocks, mudstone and sandstone	Chromic and Orthic Luvisols; Orthic Acrisol
36	Kennedy Bay	High hills: slopes >25°	Sandstone, mudstone and igneous rocks	Ferric Acrisol; Chromic and Orthic Luvisols; Dystric and Eutric Cambisols
37	Tiger	Very high hills: slopes >25°	Basic igneous rocks	Chromic and Eutric Cambisols
38	Gomantong	Very high hills: slopes >25°	Limestone	Calcic Luvisol; Rendzina
39	Lokan	Very high hills: slopes >25°	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol
40	Bang	Very high hills: slopes 15-25°	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Dystric Cambisol
41	Bidu Bidu	Mountains and hills	Ultrabasic igneous rocks	Rhodic and Orthic Ferrasols; Eutric Cambisol; Chromic and Orthic Luvisols; Lithosol
42	Mentapak	Mountains	Basic and intermediate igneous rocks	Chromic and Orthic Luvisols; Eutric Cambisol; Lithosol
43	Tinagat	Mountains	Basic and intermediate igneous rocks	Eutric Cambisol; Lithosol; Ferric Luvisol
44	Malobok	Mountains	Igneous rocks, sandstone, mudstone and chert	As for Association 41, 42 and 47 with Chromic Cambisols and Lithosols on chert
45	Wallerdorf	Mountains	Intermediate and acid igneous rocks	Eutric Cambisol; Lithosol
46	Gumpal	Mountains and hills	Mudstone, sandstone and miscellaneous rocks	Orthic Acrisol; Orthic Luvisol; Dystric and Eutric Cambisols; Lithosol
47	Crocker	Mountains	Sandstone and mudstone	Orthic Acrisol; Chromic and Dystric Cambisols; Lithosol
48	Maliu	Mountain cuestas	Sandstone and mudstone	Orthic Acrisol; Dystric Cambisol; Gleyic Podsol; Humic Gleysol; Lithosol
49	Serudong	Dykes of mountain cuestas	Sandstone	Gleyic Podsol; Orthic Acrisol
50	Trusmi	Mountains above 1 200 m (4 000 ft) a.s.l.	Sandstone and mudstone	Gleyic and Orthic Acrisols; Gleyic Podsol; Humic Gleysol; Dystric Histosol; Lithosol
51	Kinabalu	Mountains above 2 400 m (8 000 ft) a.s.l.	Acid igneous rocks	Humic Cambisol; Dystric Histosol; Lithosol

O.S. 3180 G
Terbitan oleh Pentadbiran Kemajuan Seberang Laut Kerajaan British
bagian Sumber Tanah United Kingdom, 1974 untuk Kerajaan Negeri
Sabah
Published by the British Government's Overseas Development Administration
and Resources Division United Kingdom, 1974, for the Sabah Government.
Keciptaan: Kerajaan Terpelihara
Bersandaran Pengarah Permatuan Negara, Malaysia, wajib di-dipati
sebelum peta ini atau sebahagian daripadanya di-talin.
Copyright Reserved
No approval of the Director of National Mapping, Malaysia, is
warranty before this map or any portion thereof may be copied.

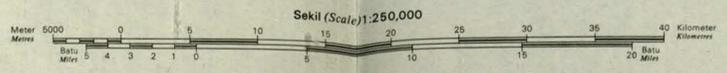


Dicetak untuk Directorate of Overseas Surveys oleh Ordnance
Printed for the Directorate of Overseas Surveys by the Ordnance
Peta asas disediakan dari punca-punca terbaik yang ada, dengan
seghad oleh Pasukan Rancangan L.R.D.
Maaklumat pakar disusun dan penyelidikan luar, dan tafsiran lo-
yang berkaitan seperti yang ditunjukkan di gambarajah "Kawa-
Tanahtani".
Peta ini berlampiran dengan Kajian Sumber Tanah "The Soils of
diterbitkan oleh Land Resources Division, Overseas Develop-
Administration, Tolworth Tower, Surbiton, Surrey, England, KT6.
Base map derived from best available sources, with limited re-
L.R.D. Project Team.
Specialist information compiled from field investigation, and re-
photo interpretation, as indicated in the "Soil Survey Areas".
This map accompanies a Land Resources Study "The Soils of
published by the Land Resources Division, Overseas Dev-
Administration, Tolworth Tower, Surbiton, Surrey, England, KT6.



Key table with columns: No., Association, Landform, Parent materials, Main soil units. Lists 51 soil types with their characteristics.

KALIMANTAN (REPUBLIC OF INDONESIA)



Legend for symbols: Bandar Town, Kampung Village, Jalan Road, Stesyen Penegasudutan Trigonometrical Station, Sempadan Antara Bangsa, Sempadan Negeri, Sempadan Keresidanan.



KAWASAN SURVEY TANAH SOIL SURVEY AREAS. List of survey areas: a. P.F. BOWER, b. P.A. BURROUGH, c. P.A. BURROUGH, d. B.S. ACHES and G.E. FOLLAND, e. P.S. WRIGHT.

PETA PANDU SYIT INDEX TO SHEETS. Grid of sheet numbers: TUARAN NB 50-6, SUGUT NB 50-7, LABUAN NB 50-9, KOTA KINABALU NB 50-10, SANDAKAN NB 50-11, DENT PENSINSULA NB 50-12, PENSANGAN NB 50-14, TAWAU NB 50-15, SEMPORNA NB 50-16.

Printed by the British Government's Overseas Development Administration (Resources Division) United Kingdom, 1974, for the Sabah Government.

Printed for the Directorate of Overseas Surveys by the Ordnance Survey, Southampton, England.

Peta ini berlandaskan dengan Kajian Sumber Tanah 'The Soils of Sabah' diterbitkan oleh Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, K16 7J.

Base map derived from best available sources, with limited revision by L.R.D. Project Team. Specialist information compiled from field investigation, and photo interpretation, as indicated in the 'Soil Survey Areas' of this map accompanies a Land Resources Study 'The Soils of Sabah' published by the Land Resources Division, Overseas Development Administration, Tolworth Tower, Surbiton, Surrey, England, K16 7J.