

AWM52
2nd Australian Imperial Force and
Commonwealth Military Forces unit war
diaries, 1939-45 War

Item number: 8/2/20

20 Infantry Brigade
Maps 1945, part 2 of 4

ENEMY MAP TO 19 JUL 45

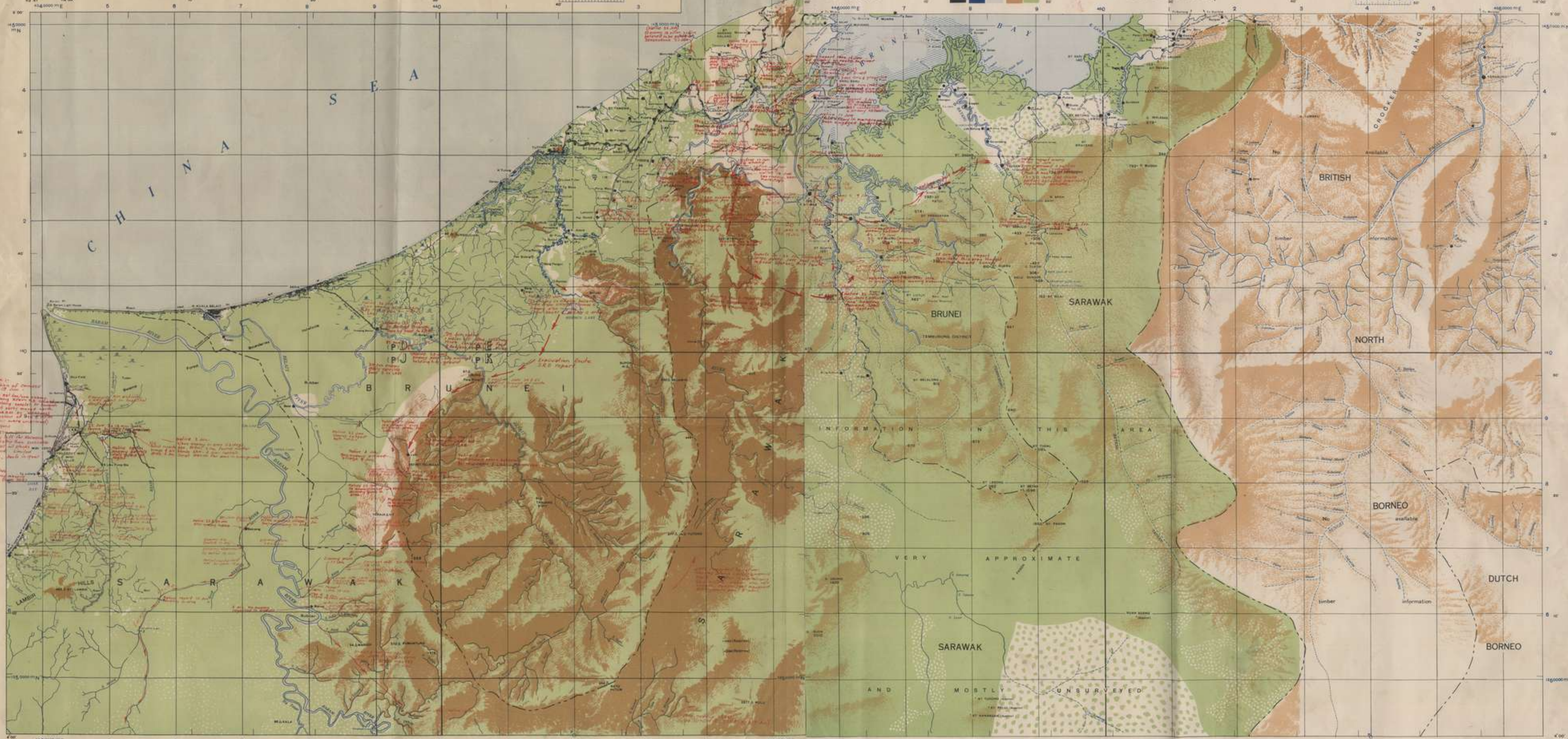
BORNEO 1:250,000

MIRI

BORNEO 1:250,000

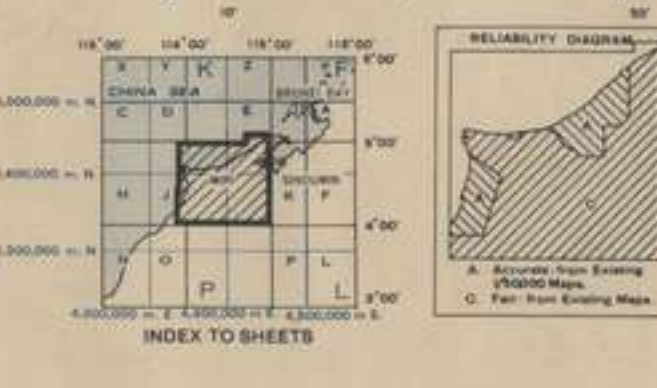
SINDUMIN

BORNEO 1:250,000

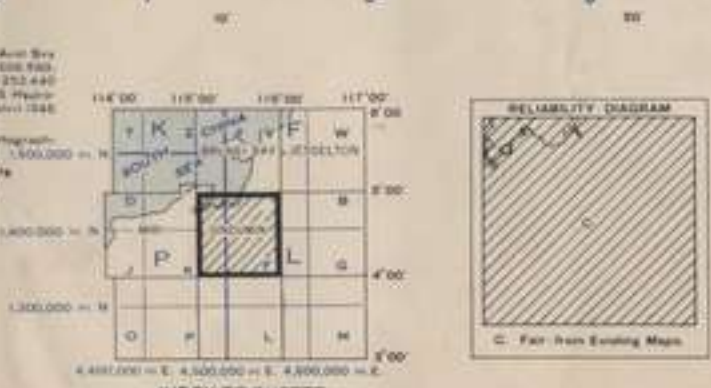


Enemy info: Investigation of enemy... (Handwritten notes in red ink)

LEGEND
Scale 1:250,000
INDEX TO SHEETS



LEGEND
Scale 1:250,000
INDEX TO SHEETS



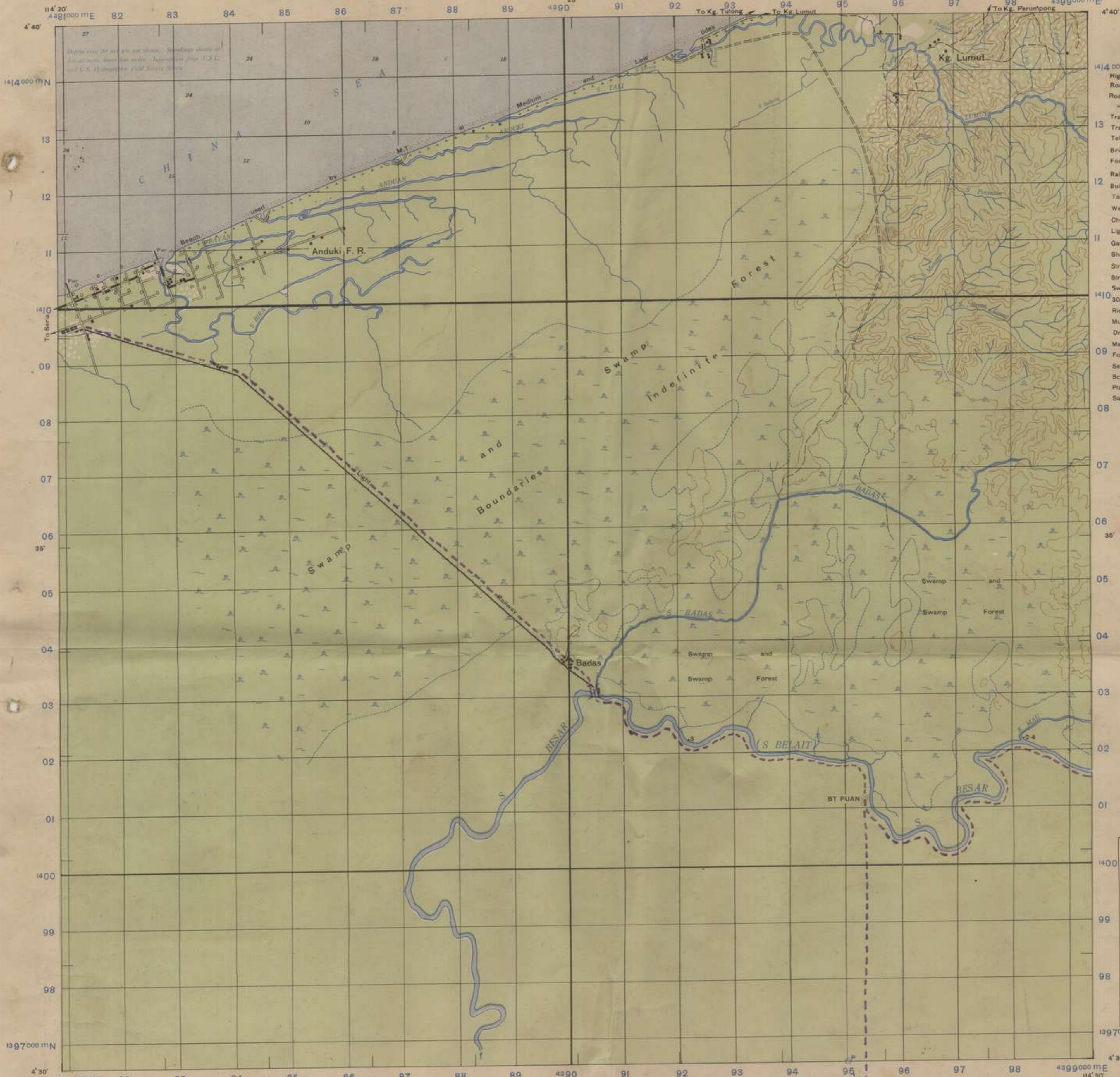
LEGEND
Scale 1:250,000
INDEX TO SHEETS

BORNEO 1:50,000

BT PUAN

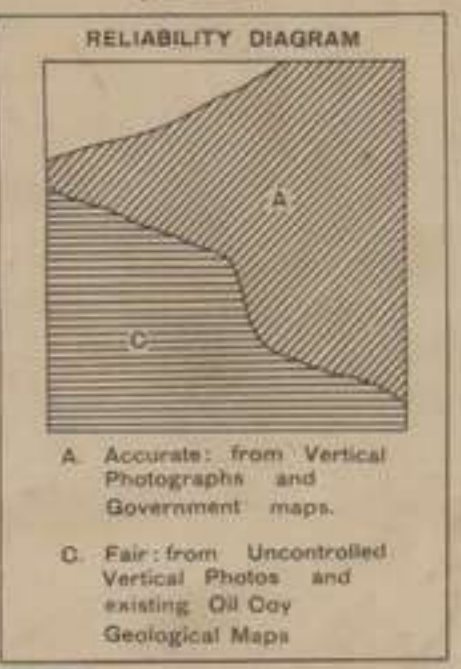
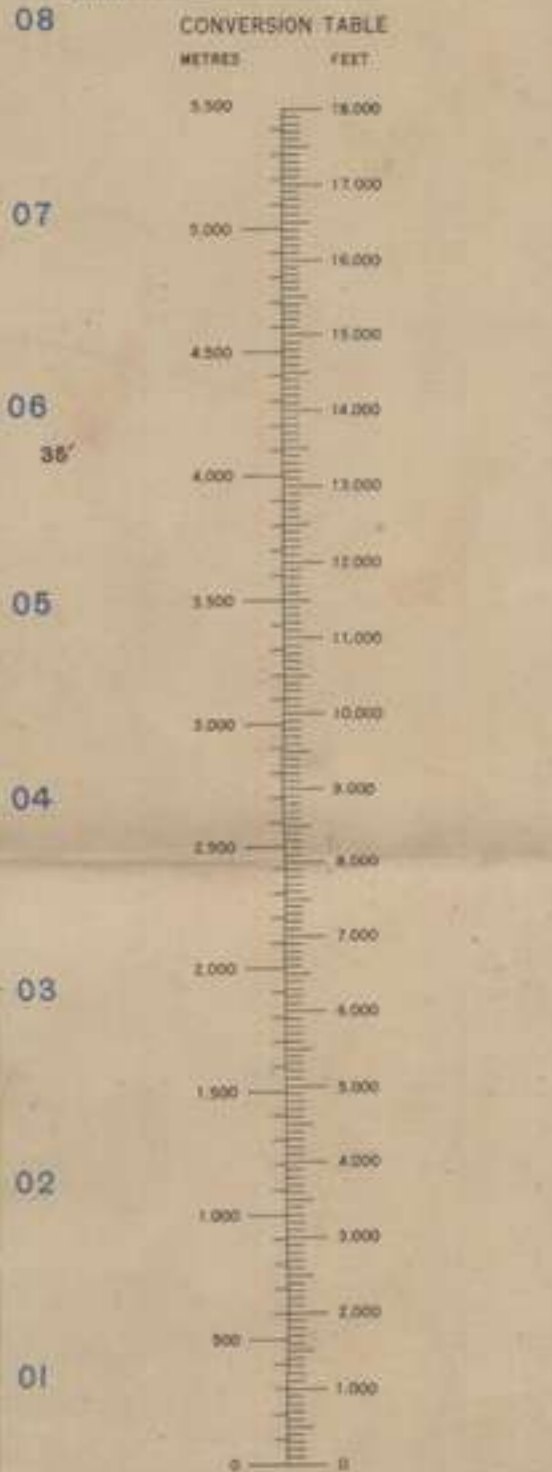
FIRST EDITION SWPA I

SHEET 2944-IV



LEGEND

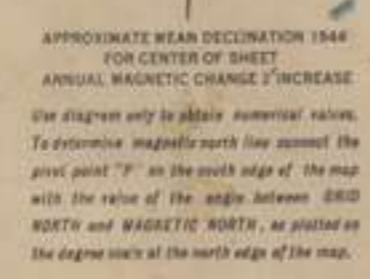
- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- Track jeep
- Trail
- Telephone or telegraph lines
- Bridge
- Footbridge
- Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Wells, oil
- Church
- Lighthouse
- Gardens
- Shallow or drying reef
- Streams
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Drain
- Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- Sand



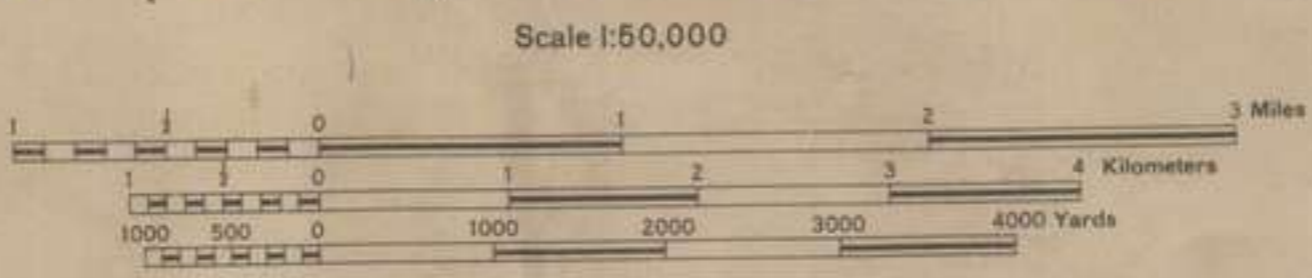
CONTROL: 1st and 2nd Order Triangulation and 1:63,360 maps by Surveyor General FMS & SS and U.S. Hydrographic Charts.
 AIR PHOTOGRAPHY: Missions 5M021-J, 31127.
 COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from Air Photographs, 1:63,360 maps by FMS & SS US Hydrographic Charts, Strat Eng Study No. 115 and Terrain Study No. 89.
 DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.

Glossary

- Tandjoeng: Tg. cape
- Baai: Bor Bi. bay
- Straat: Str. strait
- Boekit: Bt. hill
- Brangka: Br. marsh
- Danau: D. lake
- Gezaghebber: Gh. admstr office
- Goenoeng: G. mountain
- Ladang: L. cultivated land
- Moeara, Koesala: river mouth
- Moengkoer: Mr. hill top
- Padang: plain, field
- Pematang: ridge, dam
- Soengai: S. river
- Kampong: Kg. village



CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.



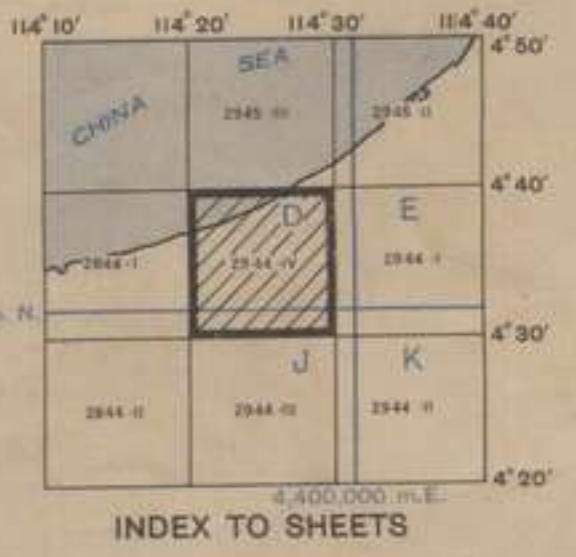
CONTOUR INTERVAL 20 METRES DATUM SEA LEVEL

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

HEIGHTS IN METRES DEPTHS IN FEET.

BRITISH METRIC GRID (Black)
 N.E.I. EQUATORIAL ZONE
 Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110° E
 False Co-ordinates 3,900,000 metres East of Origin
 900,000 metres North

To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
 The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
 EXAMPLE: BADAS (Aust) 900037; (US) 900-037
 ALWAYS state SHEET NAME in giving a reference on this grid.



BT. PUAN
 BORNEO
 N 430-E11420/10 (Gröenwich)

BORNEO 1:50,000

K. BELAIT

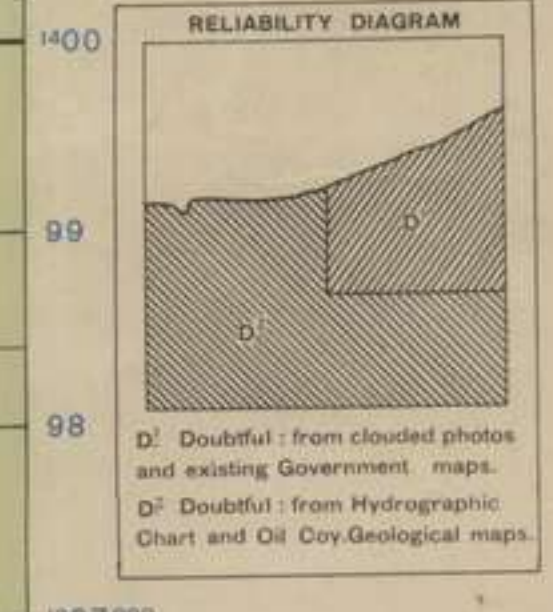
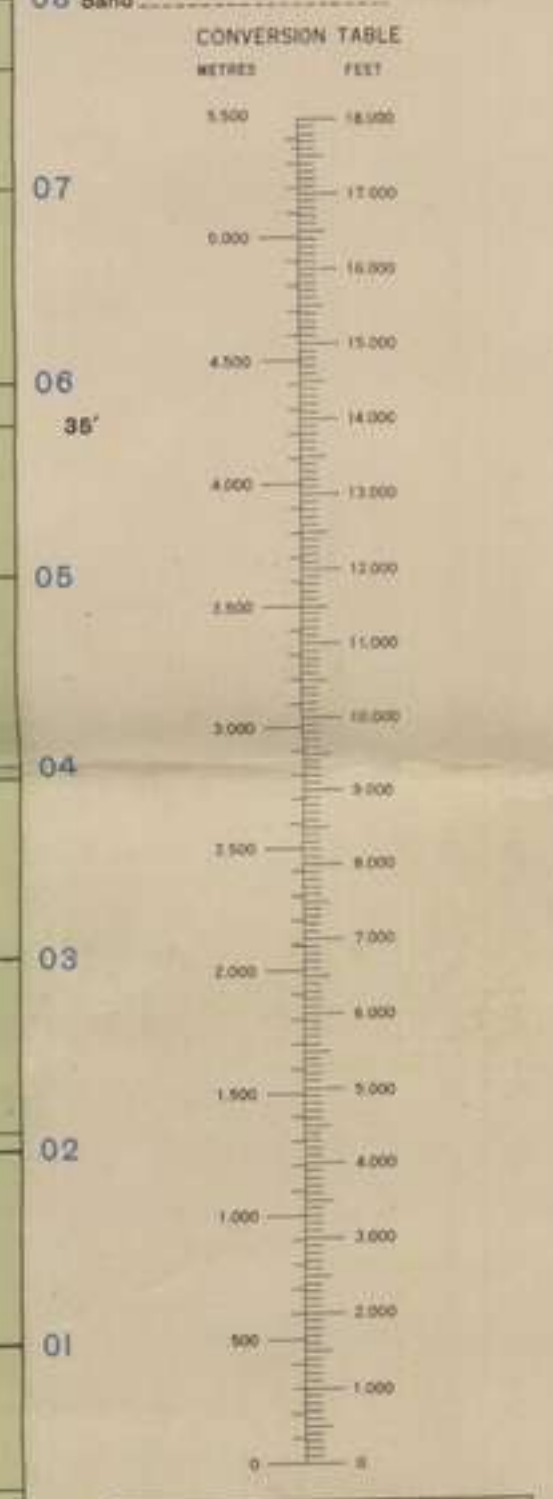
FIRST EDITION SWPA 1

SHEET 2844-I



LEGEND

- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- earth minor M.T.
- Track jeep
- Telephone or telegraph lines
- Bridge
- Footbridge
- Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Wells, oil
- Church
- Lighthouse
- Gardens
- Shallow or drying reef
- Streams
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Drain
- Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- Cliffs
- Sand



114° 10' 4963000 mE 64 65 66 67 68 69 4370 71 72 73 74 75 76 77 78 79 4380000 mE 114° 20' 4' 40'

CONTROL: 1st and 2nd Order Triangulation and 1:63,360 map by Surveyor General FMS & SS and US Hydrographic Chart AIR PHOTOGRAPHY: Missions SMC20-1
 COMPILED: LHQ Cartographic Coy, Aust Svy Corps from 1:63,360 maps by FMS & SS, US Hydrographic Charts, clouded Air Photographs, Strat Eng Study No. 115 and Terrain Study No. 89.
 DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.

Glossary

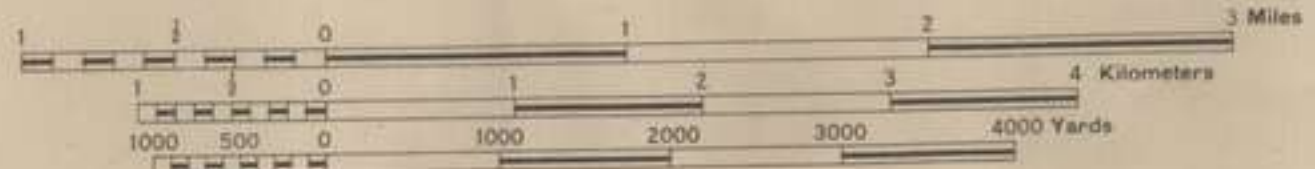
Tandjoeng: Tg	cape
Baai: Bor Bt	bay
Straat: Str	strait
Boekit: Bt	hill
Brangkai: Br	marsh
Danau: D	lake
Gezaghebber: Gh	admstr office
Goenoeng: G	mountain
Lalang: L	cultivated land
Muaras, Kerasal	river mouth
Muengker: Mr	hill top
Palang	plain, field
Pematang	ridge, dam
Soengai: S	river
Kampung: Kg	village

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET ANNUAL MAGNETIC CHANGE 1" INCREASE
 This diagram only to obtain magnetic declination. To determine magnetic declination connect the point 'P' on the south edge of the map with the edge of the angle between GRID NORTH and MAGNETIC NORTH, as printed on the degree scale at the north edge of the map.

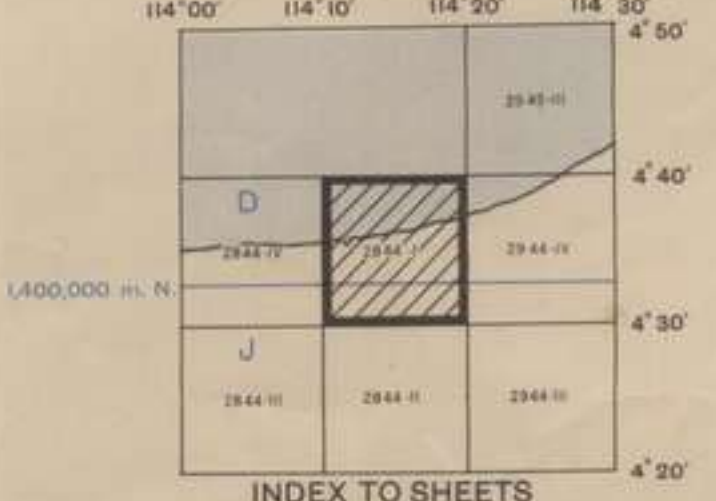
CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H Q OF FORCE CONCERNED.

DEPTHS IN FEET



BRITISH METRIC GRID (Blue)
 N.E.I. EQUATORIAL ZONE
 Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110° E
 False Co-ordinates 3,800,000 metres East of Origin
 900,000 metres North
 To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
 The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
 EXAMPLE: POINT X (Aust) 755025; (US) 755-025
 ALWAYS state SHEET NAME in giving a reference on this grid.



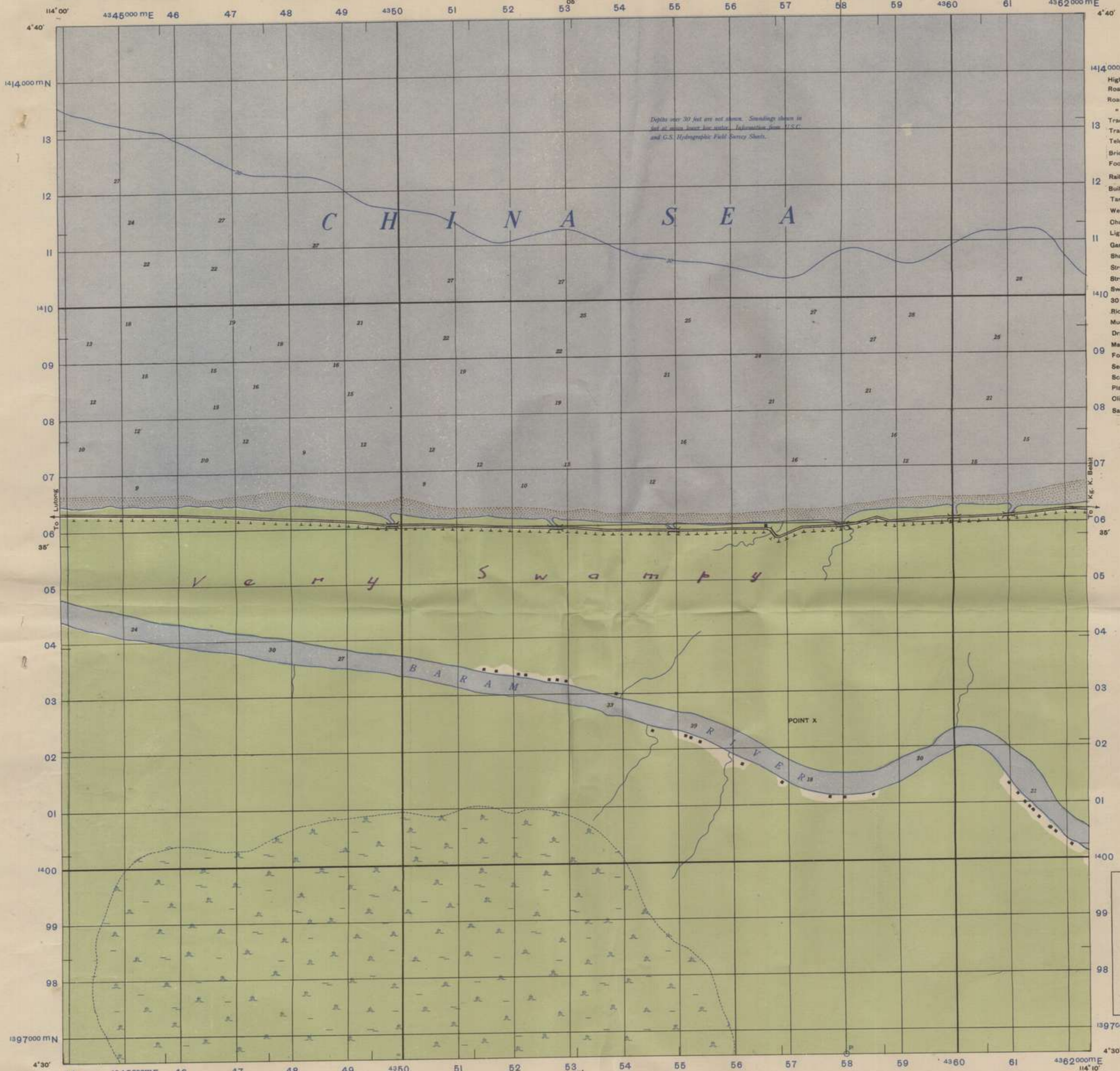
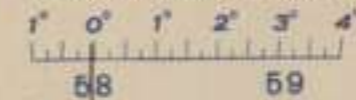
K. BELAIT BORNEO
 N 430 - E 11410 / 10 (Greenwich)

BORNEO 1:50,000

BARAM RIVER

FIRST EDITION SWPA 1

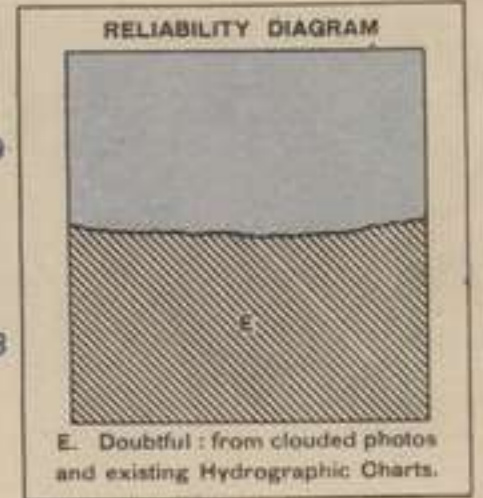
SHEET 2844-IV



LEGEND

- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- Track jeep
- Trail
- Telephone or telegraph lines
- Bridge
- Footbridge
- Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Church
- Lighthouse
- Gardens
- Shallow or drying reef
- Streams
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Drain
- Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- Cliffs
- Sand

CONVERSION TABLE



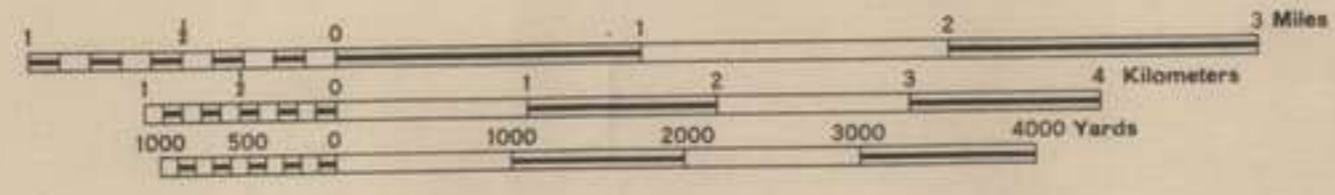
CONTROL: US Hydrographic Chart.
 COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from US Hydrographic Chart, Shell Oil Coy Map, clouded Air Photographs, Strat Eng Study No. 116 and Terrain Study No. 89.
 DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.

Glossary

- Tandjoeng: Tg.....cape
- Baal: Bor Bt.....bay
- Strait: Str.....strait
- Boekit: Bt.....hill
- Brangka: Br.....marsh
- Dansai: D.....lake
- Qazaghebber: Gh.....admsr office
- Qaeneng: G.....mountain
- Ladang: L.....cultivated land
- Moeara, Koela.....river mouth
- Moengkoer: Mr.....hill top
- Padang.....plain, field
- Pematang.....ridge, dam
- Soengai: S.....river

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE 2" INCREASE
 Use diagram only to obtain numerical values.
 To determine magnetic north line connect the pivot point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.

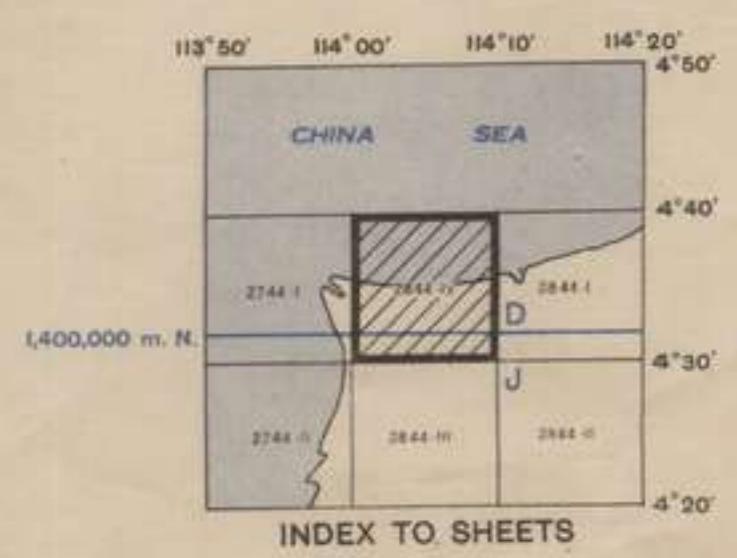


NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

HEIGHTS IN METRES DEPTHS IN FEET

BRITISH METRIC GRID (Blue)
 N.E. EQUATORIAL ZONE
 Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110° E
 False Co-ordinates 3,900,000 metres East
 of Origin: 900,000 metres North

To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
 The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
 EXAMPLE: POINT X (Aust) 575025; (US) 575-025
 ALWAYS state SHEET NAME in giving a reference on this grid.



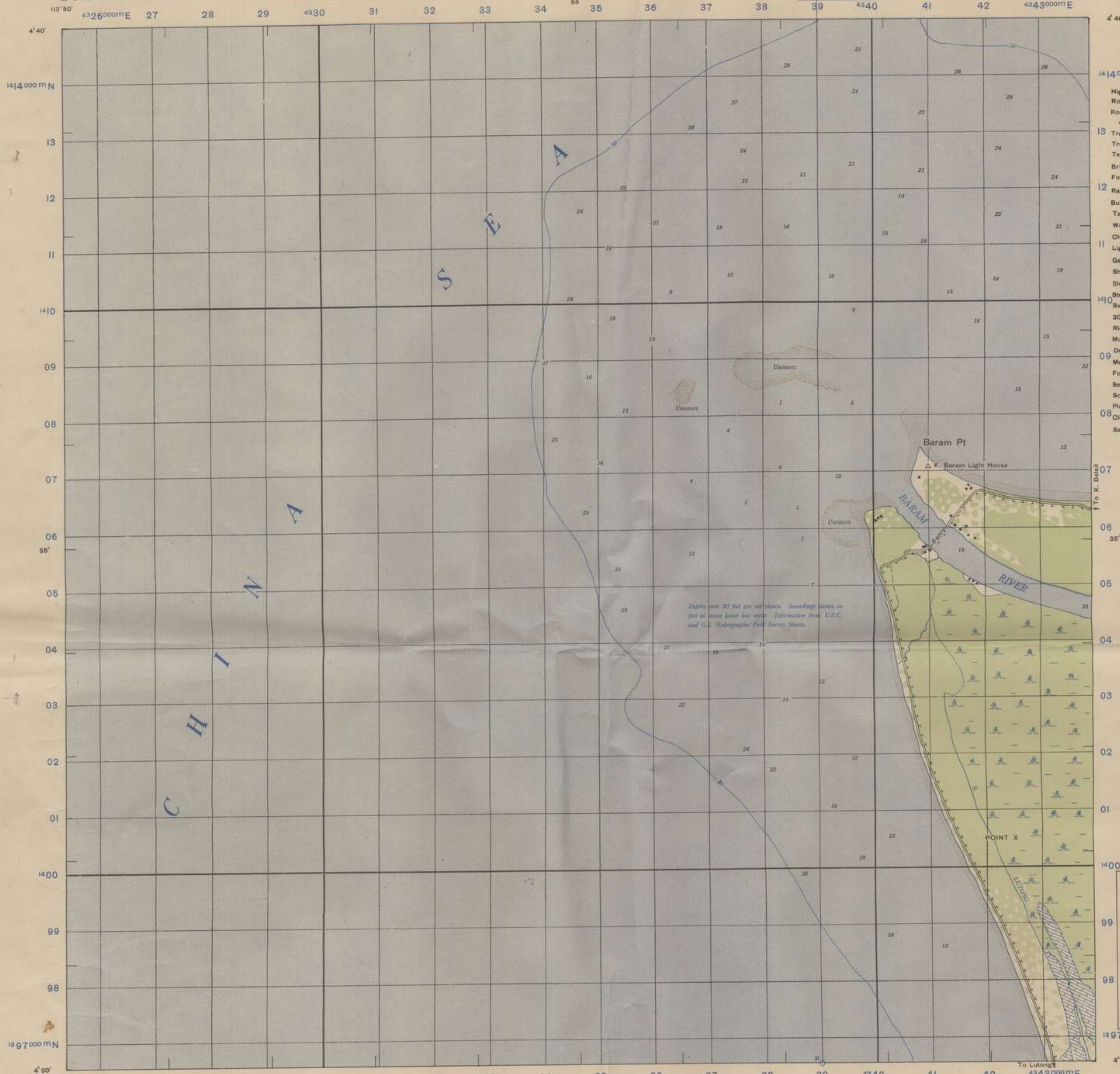
BARAM RIVER
BORNEO
 S 430 - E 11400/10 (Greenwich)

BORNEO 1:50,000

S. LUTONG

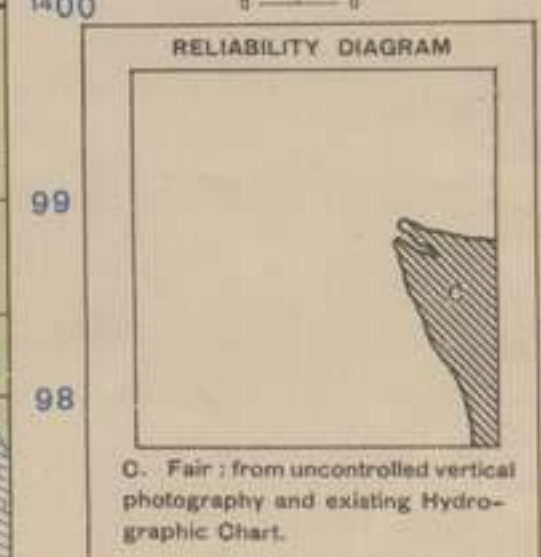
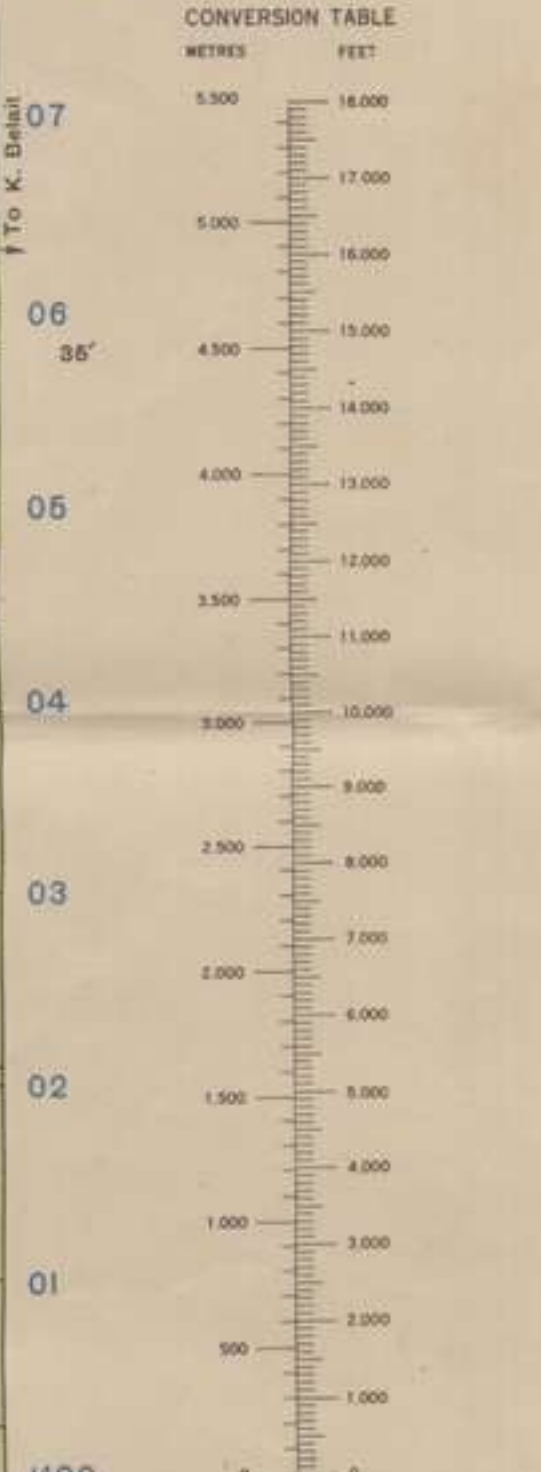
FIRST EDITION SWPA 1

SHEET 2744-I



LEGEND

- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- earth minor M.T.
- Track jeep
- Trail
- Telephone or telegraph lines
- Bridge
- Footbridge
- Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Wells, oil
- Church
- Lighthouse
- Gardens
- Shallow or drying reef
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Drain
- Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- Cliffs
- Sand



113°50' 4326000mE 27 28 29 4330 31 32 33 34 35 36 37 38 39 4340 41 42 4343000mE 114°00'

4°40' 1414000mN

13 12 11 10 09 08 07 06 05 04 03 02 01 1400 99 98 1397000mN 4°30'

113°50' 4326000mE 27 28 29 4330 31 32 33 34 35 36 37 38 39 4340 41 42 4343000mE 114°00'

CONTROL: US Hydrographic Chart HO 11809-518 and Shell Oil Coy Survey.

AIR PHOTOGRAPHY: Mission SMC20-L1.

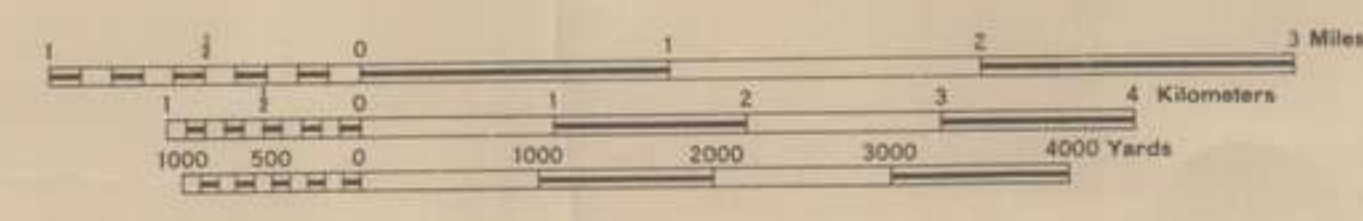
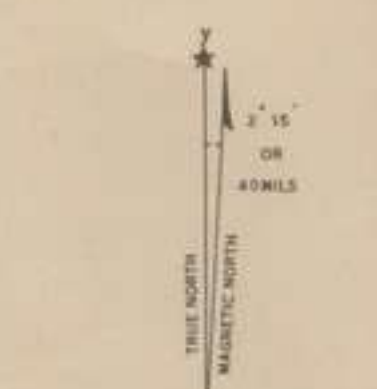
COMPLATION: LHQ Cartographic Coy, Aust Svy Corps from US Hydrographic Chart HO 11809-518 Shell Oil Coy Map, clouded Air Photographs, Strat Eng Study No. 115 and Terrain Study No. 89.

DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 46.

FIRST EDITION

Glossary

Tandjoeng: Tg	cape
Baal: Bor Bi	bay
Straat: Str	strait
Boekit: Bt	hill
Brangka: Br	marsh
Danau: D	lake
Gezaghebber: Gh	admstr office
Goenoeng: G	mountain
Ladang: L	cultivated land
Moeara, Koela	river mouth
Moengkoer: Mr	hill top
Padang	plain, field
Pematang	ridge, dam
Soengal: S	river
Kampong: Kg	village



NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

HEIGHTS IN METRES & DEPTHS IN FEET

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

BRITISH METRIC GRID (Blue)

N.E.I. EQUATORIAL ZONE

Projection: Lambert Conical Orthomorphic

Origin: Equator and 110° E

False Co-ordinates 3,900,000 metres East of Origin

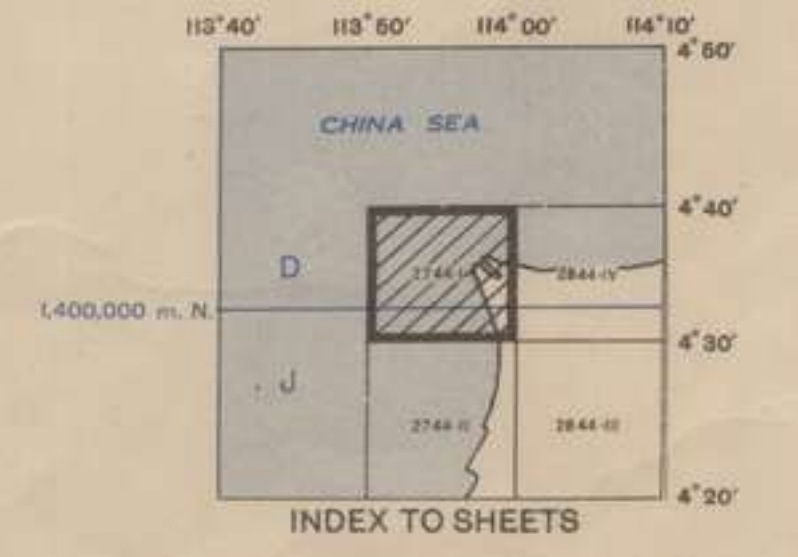
900,000 metres North

To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.

The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.

EXAMPLE: POINT X (Aux) 425005; (US) 425-005

ALWAYS state SHEET NAME in giving a reference on this grid.



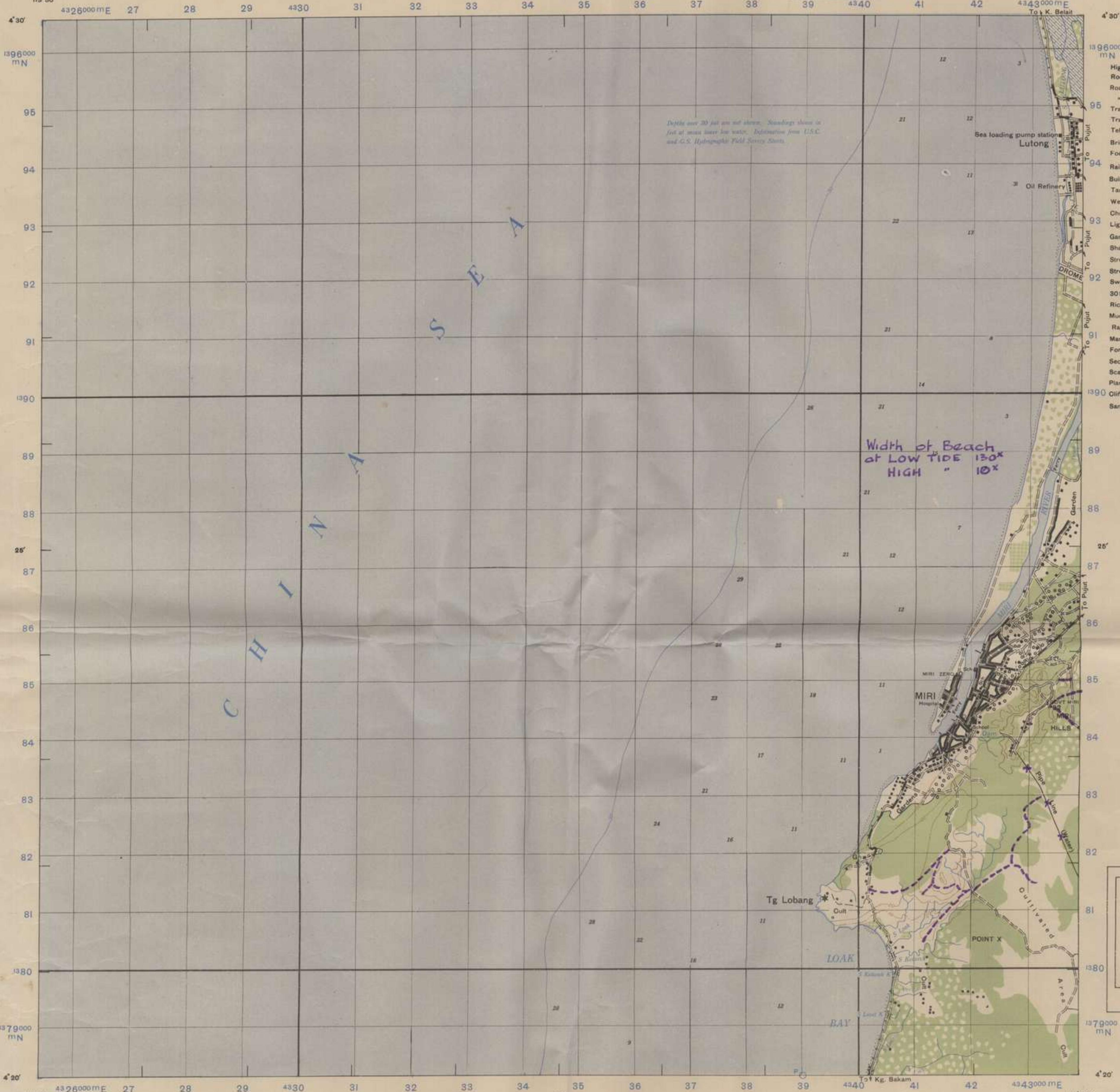
S. LUTONG BORNEO
N 430-E11350/10 (Greenwich)

BORNEO 1:50,000

LOAK BAY

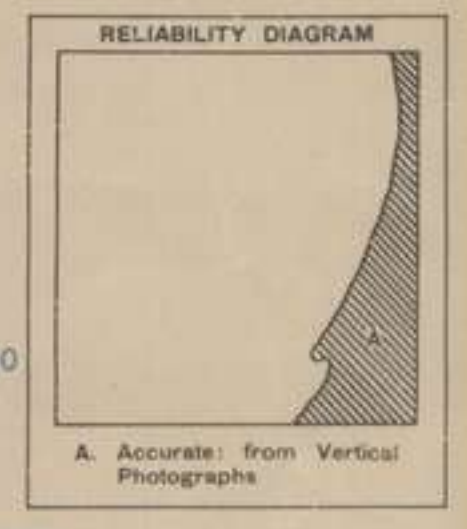
FIRST EDITION SWPA I

SHEET 2744-II



LEGEND

- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- earth minor M.T.
- Track jeep
- Trail
- Telephone or telegraph lines
- Bridge
- Footbridge
- Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Wells, oil
- Church
- Lighthouse
- Gardens
- Shallow or drying reef
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Radio station
- Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- Cliffs
- Sand



LHQ/032/3154
SWPA 1731

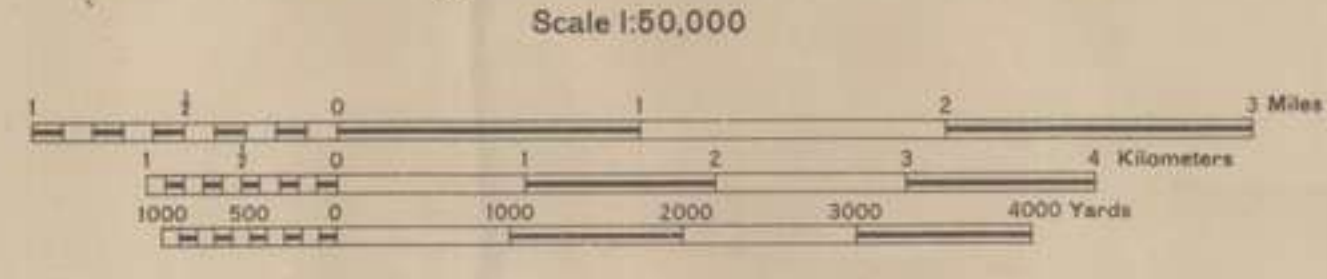
CONTROL: 1st Order Triangulation by Surveyor General FMS & SS and Shell Oil Coy Surveys.
 AIR PHOTOGRAPHY: Missions 5MC20-L1, 311Z and Shell Oil Coy photographs.
 COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from Air Photographs, British Admiralty Chart No 2108, Shell Oil Coy Map, Strat Eng Study No. 115 and Terrain Study No. 89.
 DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.

Glossary

- Tandjoeng: Tg.....cape
- Baai: Bor Bi.....bay
- Straat: Str.....strait
- Boekit: Bt.....hill
- Brangka: Br.....marsh
- Danau: D.....lake
- Gezaghebber: Gh.....admsr office
- Goenoeng: G.....mountain
- Ladang: L.....cultivated land
- Moeras, Koela.....river mouth
- Moengkoer: Mr.....hill top
- Padang.....plain, field
- Pematang.....ridge, dam
- Soengal: S.....river
- Kampong: Kg.....village

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE 1 INCREASE
 The diagram only to obtain numerical values. To determine magnetic north line across the grid point "P" on the north edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the diagram scale at the north edge of the map.

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

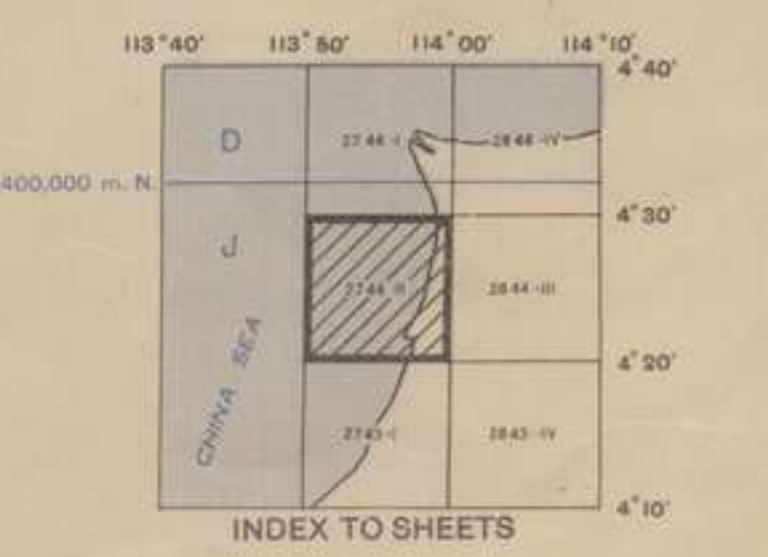


CONTOUR INTERVAL 20 METRES DATUM SEA LEVEL

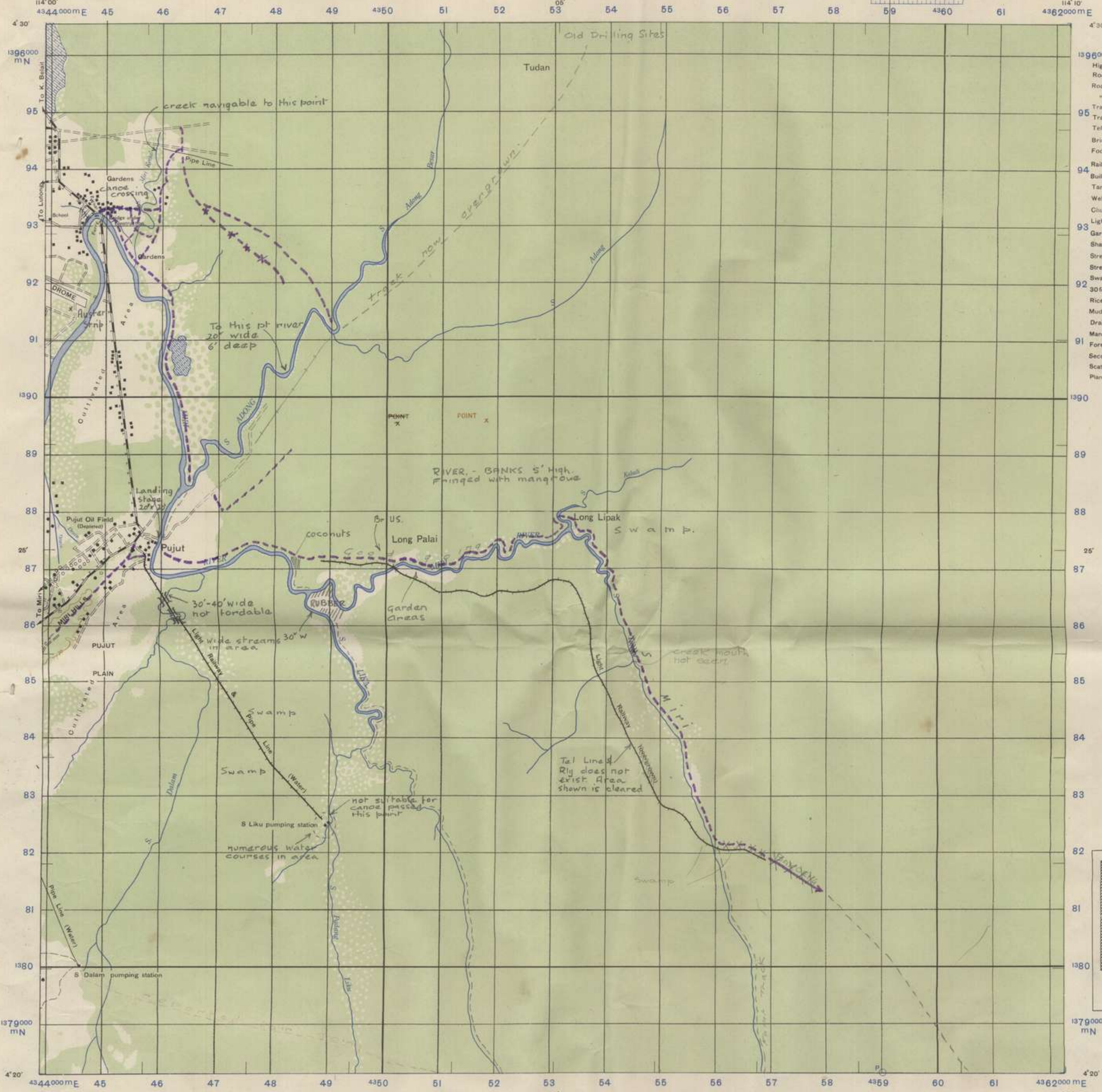
NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H Q OF FORCE CONCERNED.

HEIGHTS IN METRES, DEPTHS IN FEET.

BRITISH METRIC GRID (Blue)
 N.E.I. EQUATORIAL ZONE
 Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110° E
 False Co-ordinates 3,900,000 metres East of Origin
 900,000 metres North

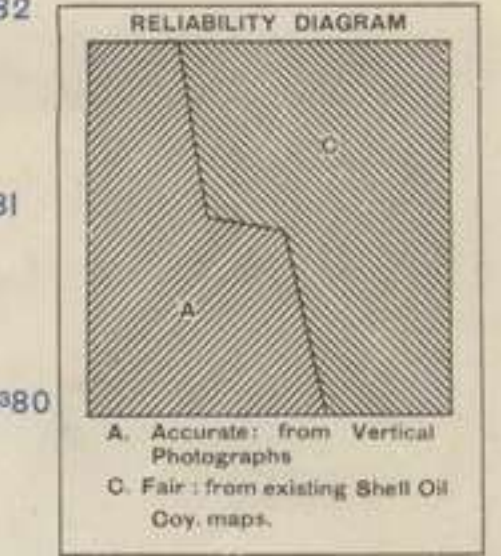
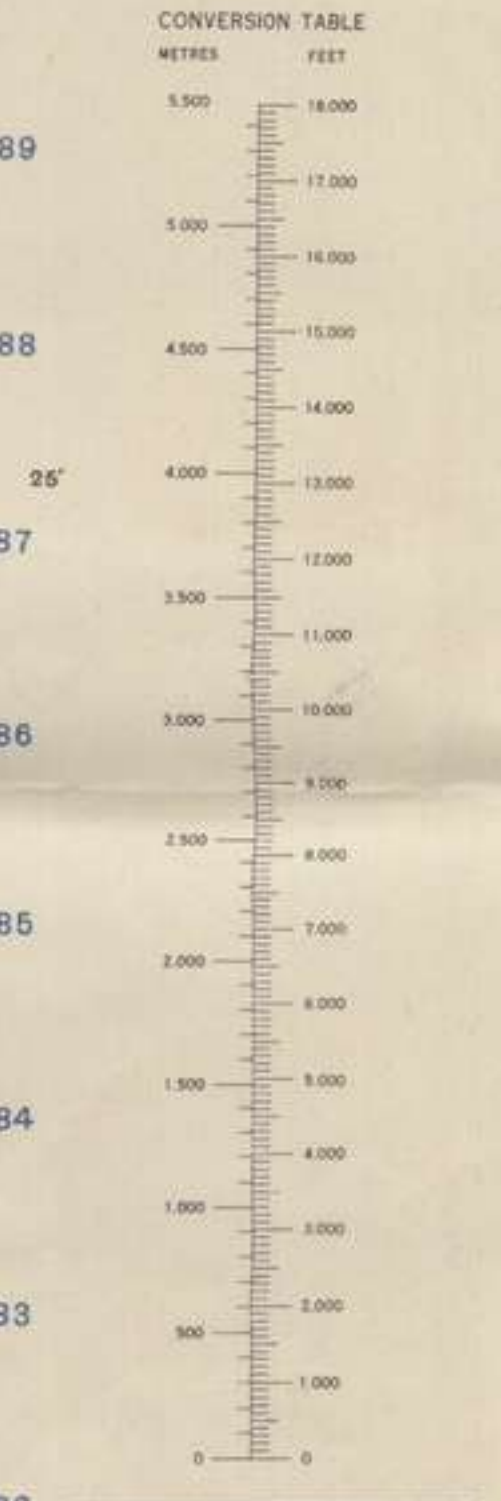


LOAK BAY BORNEO
 N 420 - E 11350/10 (Greenwich)



1396000 mN LEGEND

Highway hard surfaced	—
Roads hard surfaced	—
Roads lightly surfaced	—
earth minor M.T.	—
Track jeep	—
Trail	—
Telephone or telegraph lines	—
Bridge	—
Footbridge	—
Railway narrow gauge	—
Buildings or huts	—
Tanks, oil	—
Wells	—
Church	—
Lighthouse	—
Gardens	—
Shallow or drying reef	—
Streams	—
Streams intermittent	—
Swamp	—
30 foot depth line	—
Rice fields	—
Mud flats	—
Drain	—
Mangroves	—
Forest	—
Secondary growth	—
Scattered trees	—
Plantations	—



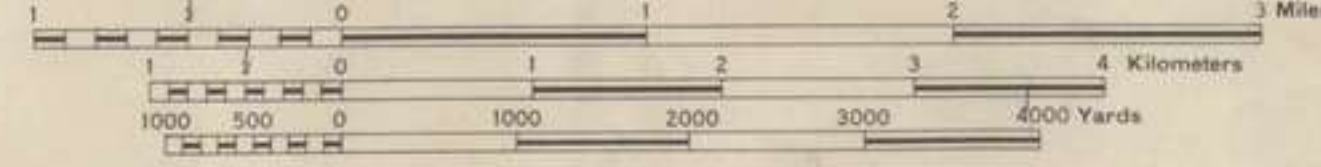
CONTROL: 1st Order Triangulation by Surveyor General FMS & SS and Shell Oil Coy Surveys.
 AIR PHOTOGRAPHY: Missions SMC20-LI, 311Z7 and Shell Oil Coy photographs.
 COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from Air Photographs, Shell Oil Coy Map, Strat Eng Study No. 115 and Terrain Study No. 89.
 DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 48.
 FIRST EDITION

Glossary

Tandjong: Tg	cape
Baai: Bor Bi	bay
Strait: Str	strait
Boekit: Bt	hill
Brangka: Br	marsh
Danau: D	lake
Gezaghebber: Gh	admstr office
Goenoeng: G	mountain
Ladang: L	cultivated land
Moeara, Koeala	river mouth
Moengkoer: Mr	hill top
Padang	plain, field
Pematang	ridge, dam
Soengai: S	river
Kampong: Kg	village

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE INCREASE
 Use diagram only to obtain numerical values.
 To determine magnetic north line connect the point 'P' on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

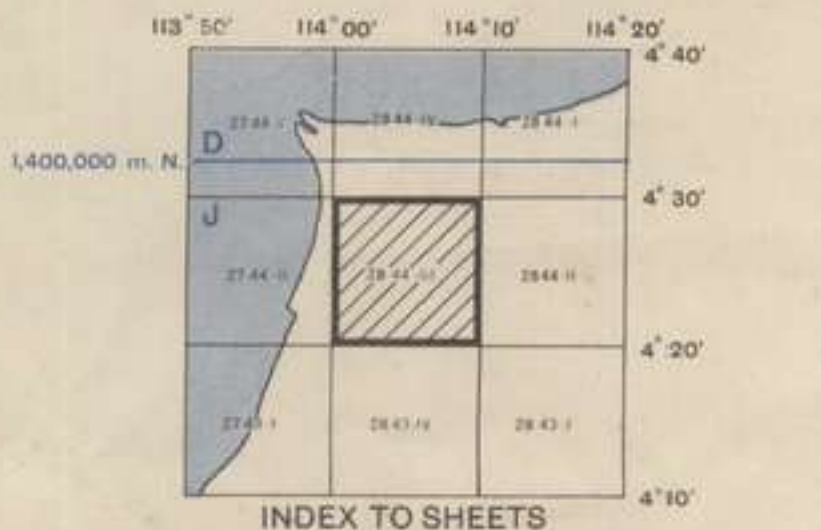


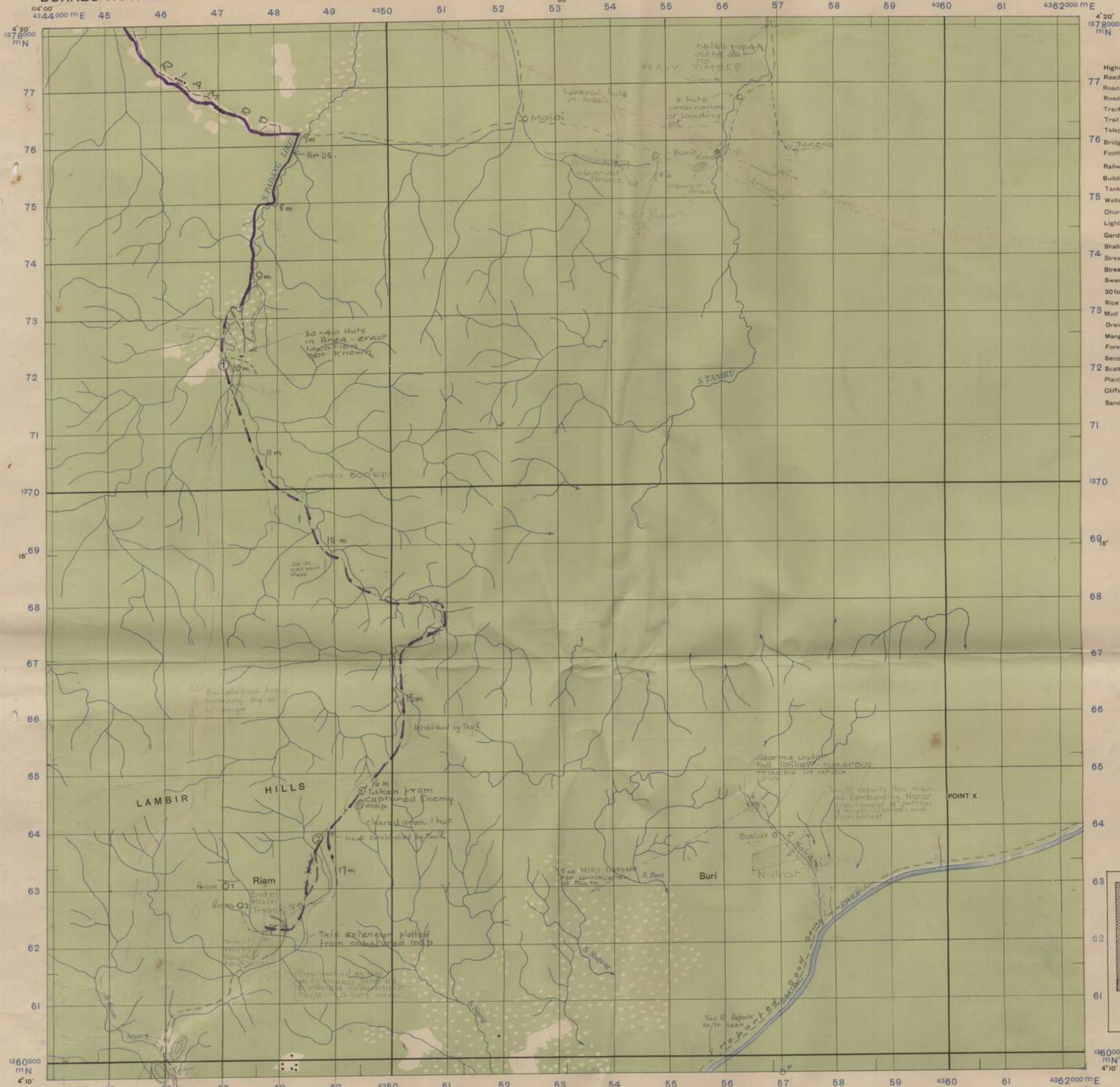
CONTOUR INTERVAL 20 METRES DATUM SEA LEVEL

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

HEIGHTS IN METRES, DEPTHS IN FEET.

BRITISH METRIC GRID (Blue)
 N.E.I. EQUATORIAL ZONE
 Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110°E
 False Co-ordinates 3,900,000 metres East of Origin
 900,000 metres North
 To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
 The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
 EXAMPLE: POINT X (Aust) 518896; (US) 518-896
 ALWAYS state SHEET NAME in giving a reference on this grid.



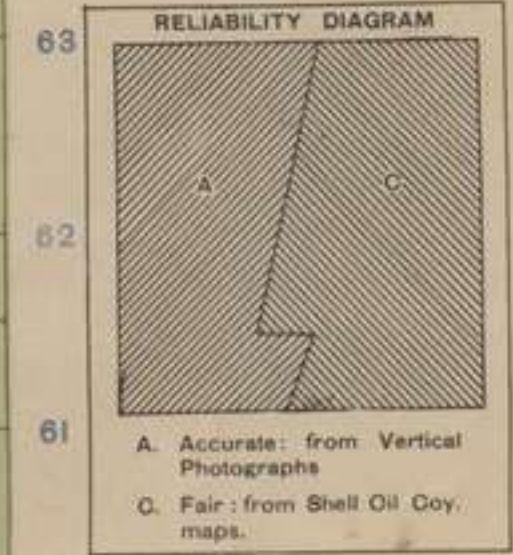


LEGEND

- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- Roads earth minor M.T.
- Track jeep
- Trail
- Telephone or telegraph lines
- Bridge
- Footbridge
- Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Wells oil
- Church
- Lighthouse
- Gardens
- Shallow or drying reef
- Streams
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Drain
- Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- Cliffs
- Sand

CONVERSION TABLE

METRES	FEET
5,500	18,000
5,000	16,500
4,500	14,800
4,000	13,100
3,500	11,500
3,000	9,800
2,500	8,200
2,000	6,600
1,500	5,000
1,000	3,300
500	1,600
0	0



4344000 mE 45 46 47 48 49 4360 51 52 53 54 55 56 57 58 59 4360 61 4362000 mE
114°00' 114°10' 114°20'

L.H.Q. 032/3178
SWPA 1731

CONTROL: 1st and 2nd Order Triangulation by Surveyor General FMS & SS and Shell Oil Coy. Surveys.

AIR PHOTOGRAPHY: Shell Oil Coy. photographs.

COMPLIATION: L.H.Q. Cartographic Coy., Aust-Svy Corps from Air Photographs and Shell Oil Coy. Maps.

DRAWING & REPRODUCTION: L.H.Q. Cartographic Coy., Aust-Svy Corps, Apr 46.

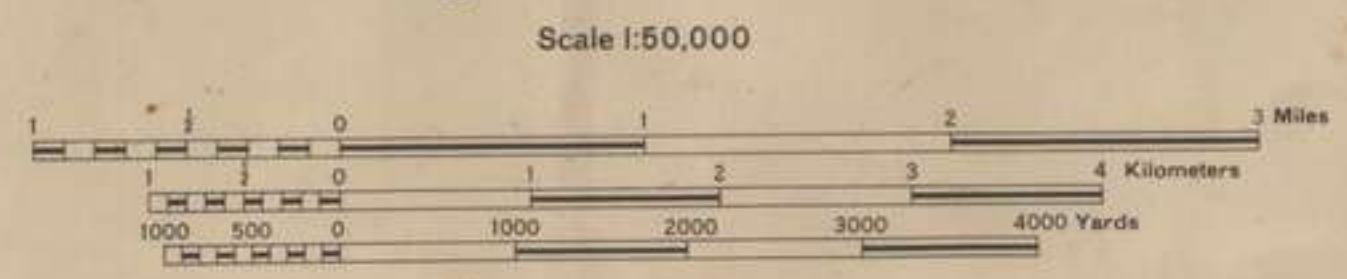
FIRST EDITION

Glossary

- Tandjoeng: Tg.cape
- Bai: Bor Bi.bay
- Strait: Str.strait
- Bukit: Bt.hill
- Brangkai: Br.marsh
- Danu: D.lake
- Gezaghebber: Gh.admrstr office
- Goenoeng: G.mountain
- Ladang: L.cultivated land
- Moeras, Koela:river mouth
- Moengkoer: Mr.hill top
- Padang:plain, field
- Pematang:ridge, dam
- Soengai: S.river
- Kampong: Kg.village

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
ANNUAL MAGNETIC CHANGE INCREASE
The diagram only is obtain numerical values.
To determine magnetic north line connect the point 'P' on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

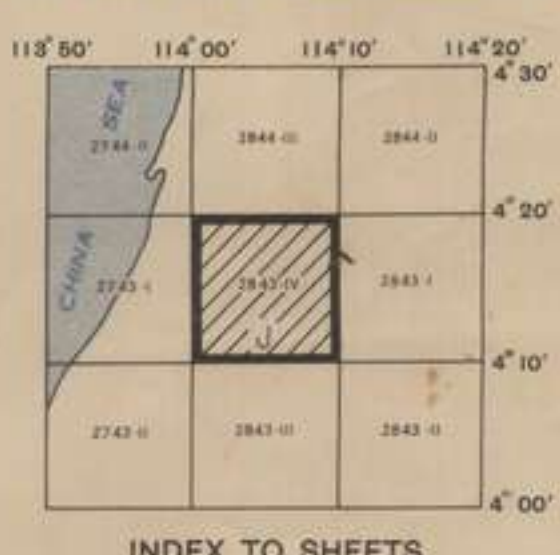


NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE COMBINED.

BRITISH METRIC GRID (Blue)
N.E.I. EQUATORIAL ZONE

Projection: Lambert Conical Orthomorphic
Origin: Equator and 110° E
False Co-ordinates 3,900,000 metres East of Origin
900,000 metres North

To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
EXAMPLE: POINT X (Aust) 605645; (US) 605-645
ALWAYS state SHEET NAME in giving a reference on this grid.



BORNEO 1:50,000



KG. BAKAM

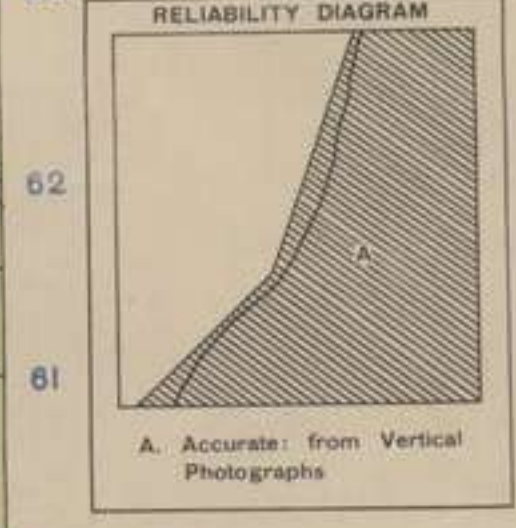
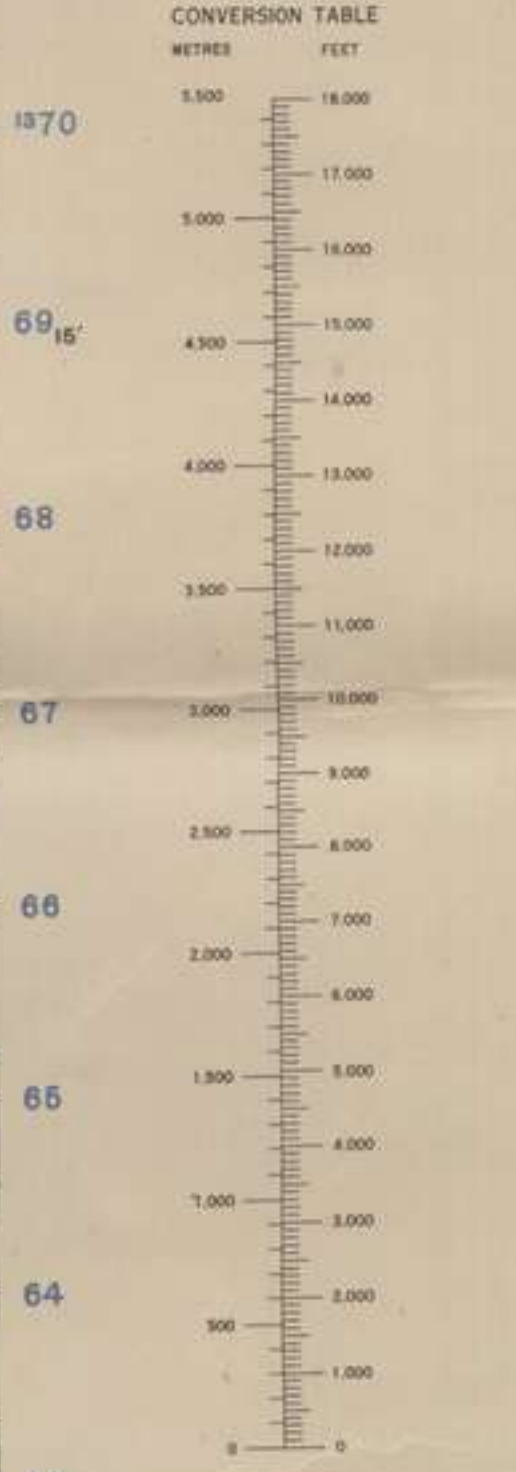
FIRST EDITION SWPA I

SHEET 2743-I



LEGEND

- 77 Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- Roads earth minor M.T.
- 76 Track jeep
- Trail
- Telephone or telegraph lines
- Bridge
- Footbridge
- 75 Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Wells, oil
- Church
- 74 Lighthouse
- Gardens
- Shallow or drying reef
- Streams intermittent
- 73 Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Drain
- 72 Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- 71 Cliffs

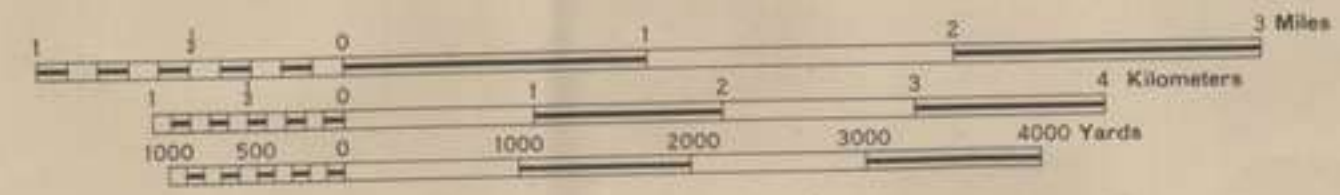


CONTROL: 1st Order Triangulation by Surveyor General FMS & SS and Shell Oil Coy Surveys.
 AIR PHOTOGRAPHY: Missions 5MC20-L1 and Shell Oil Coy photographs.
 COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from Air Photographs, British Admiralty Chart No 2108, Shell Oil Coy Map, Strat Eng Study No. 115 and Terrain Study No. 89.
 DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 46.

Glossary

- Tandjoeng: Tg. cape
- Baal: Bor Bi. bay
- Strait: Str. strait
- Boekit: Bt. hill
- Brangka: Br. marsh
- Dansu: D. lake
- Gezagheber: Gh. admstr office
- Goenoeng: G. mountain
- Lalang: L. cultivated land
- Moera, Koala: river mouth
- Moengker: Mr. hill top
- Padang: plain, field
- Pematang: ridge, dam
- Soengai: S. river
- Kampung: Kg. village

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE INCREASE
 Use diagram only to obtain numerical values.
 To determine magnetic north line around the great point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the diagram scale at the north edge of the map.



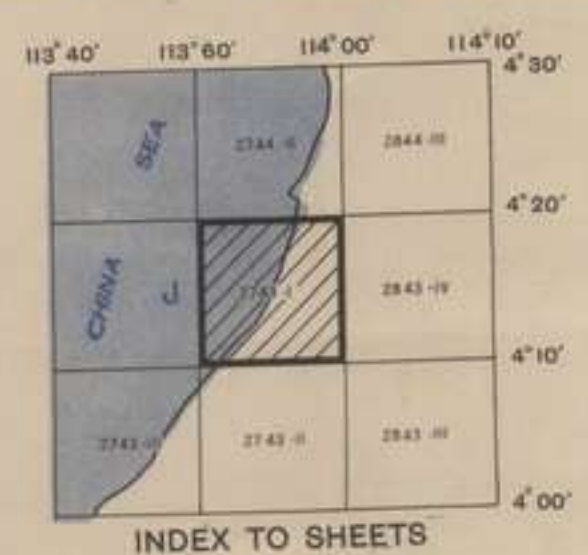
CONTOUR INTERVAL 20 METRES DATUM SEA LEVEL

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

HEIGHTS IN METRES, DEPTHS IN FEET.

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

BRITISH METRIC GRID (Blue)
 N.E.I. EQUATORIAL ZONE
 Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110° E
 False Co-ordinates 3,900,000 metres East of Origin
 900,000 metres North

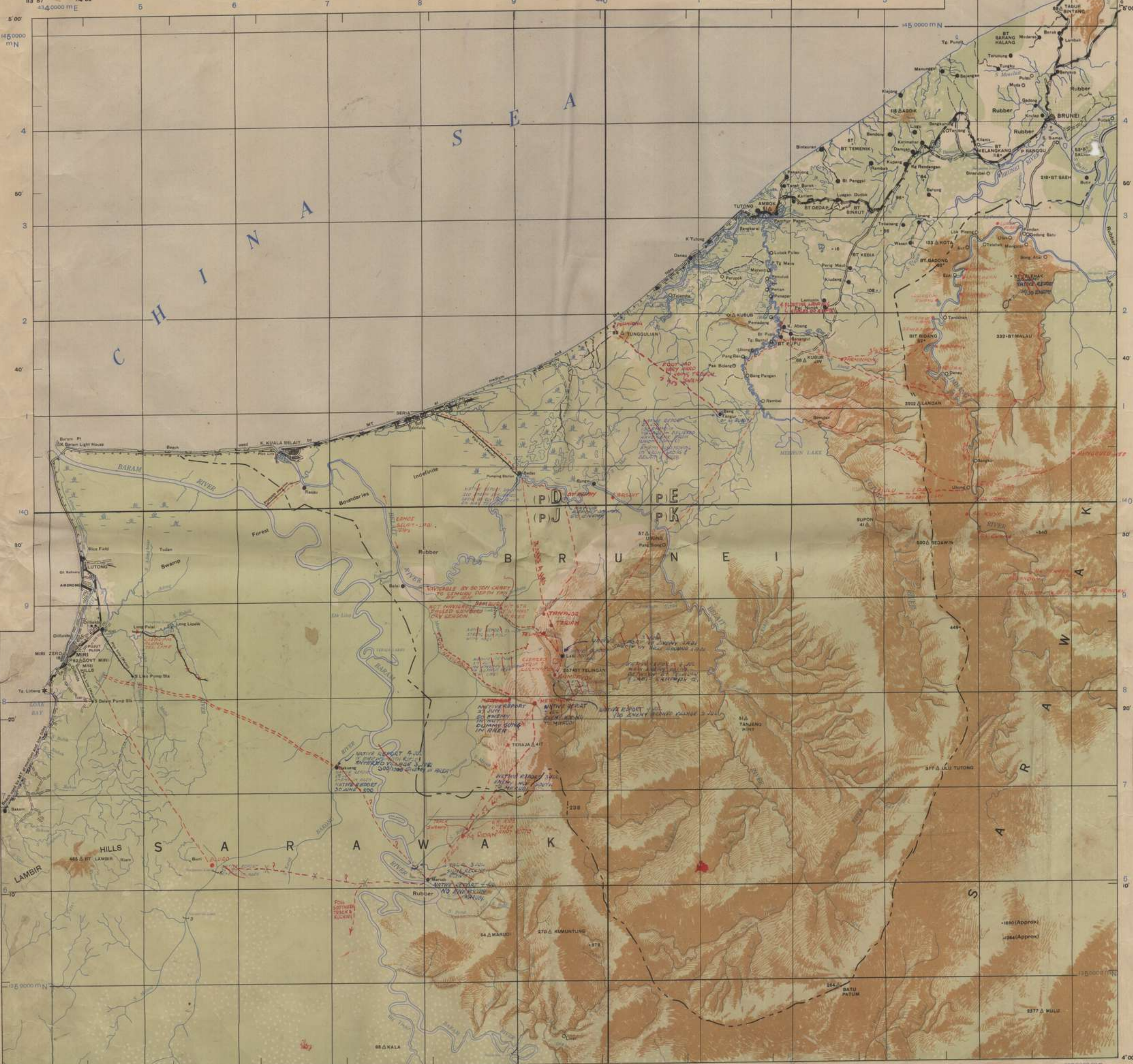


KG BAKAM BORNEO
 N 410 - E 11350/10 (Greenwich)

BORNEO 1: 250,000

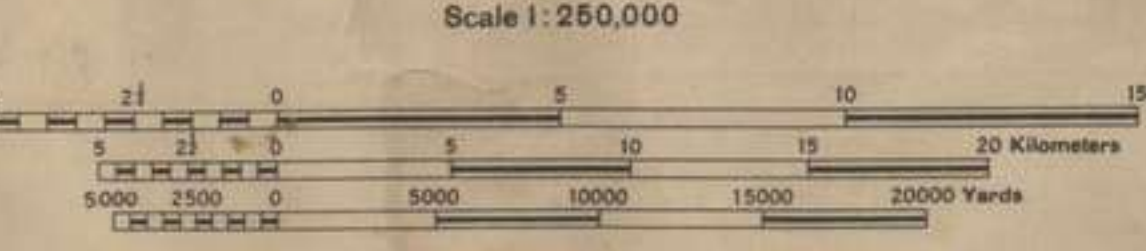
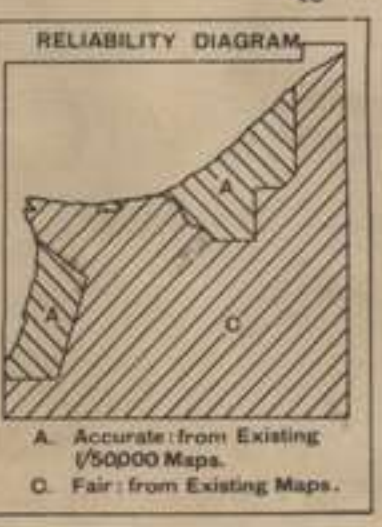
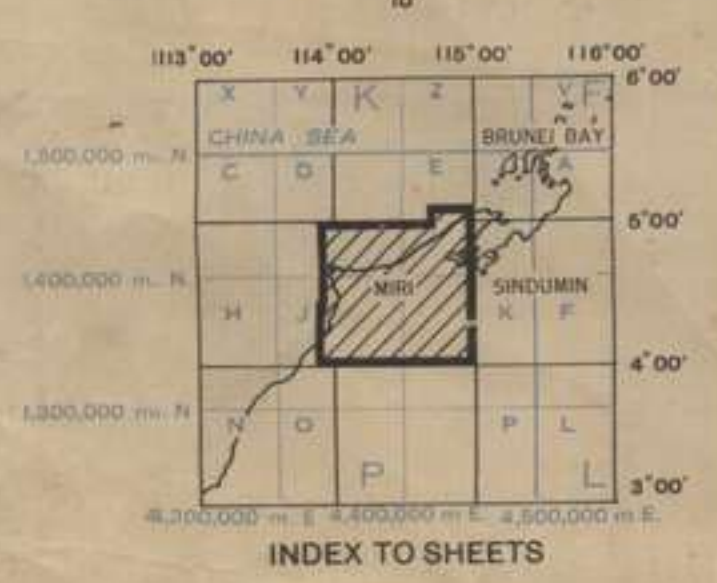
MIRI

FIRST EDITION SWPA 1



LHQ 025/3188 SWPA T531
 CONTROL: 1st and 2nd Order Triangulation, 1-63,380 maps by Surveyor General FMS & SS, Shell Oil Coy Maps and Surveys, US Hydrographic Charts and British Admiralty Charts.
 AIR PHOTOGRAPHY: Missions 5MC21-J1, 5MC20-L1, 5MC20-L2, 5MOT-H9, 31127 and Shell Oil Coy Photos from Air Photographs, Shell Oil Coy Maps, 1:63,360 maps by FMS & SS, US Hydrographic Charts, British Admiralty Charts, Strat Eng Study No 116 and Terrain Study No 89.
 DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.
 FIRST EDITION

Glossary
 Tanjung: Tg
 Cape: C
 Bank: Bk
 Spangai: S
 River: R
 Gompeng: G
 Mountain: M



DATUM SEA LEVEL

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H O OF FORCE CONCERNED.

HEIGHTS IN METRES

APPROXIMATE MEAN DECLINATION 1944 FOR CENTRE OF SHEET
 ANNUAL MAGNETIC CHANGE INCREASE
 Use diagram only to obtain approximate values
 To determine magnetic north line connect the point 'M' on the south edge of the map with the centre of the angle between 180° NORTH and MAGNETIC NORTH, as marked on the degree scale at the north edge of the map.

LEGEND

- Roads hard surfaced: ————
- Roads lightly surfaced: - - - - -
- Trails:
- Railway narrow gauge: —+—+—+—+—+—
- Political Boundary: ————
- Large town: ●
- Small town: ○
- Village: ○
- Village (reported location): ○
- Bridge: —+—
- Streams: ————
- Swamp: ————
- Mangroves: ————
- Forest: ————
- Secondary growth: ————
- Scattered trees: ————
- Plantations: ————
- Sand: ————

BRITISH METRIC GRID (B.M.G.)
 N.E. EQUATORIAL ZONE
 Projection: Lambert Conformal Conic
 Origin: Equator and 102° E
 False Co-ordinates: 3,000,000 metres East of Origin, 500,000 metres North of Origin.

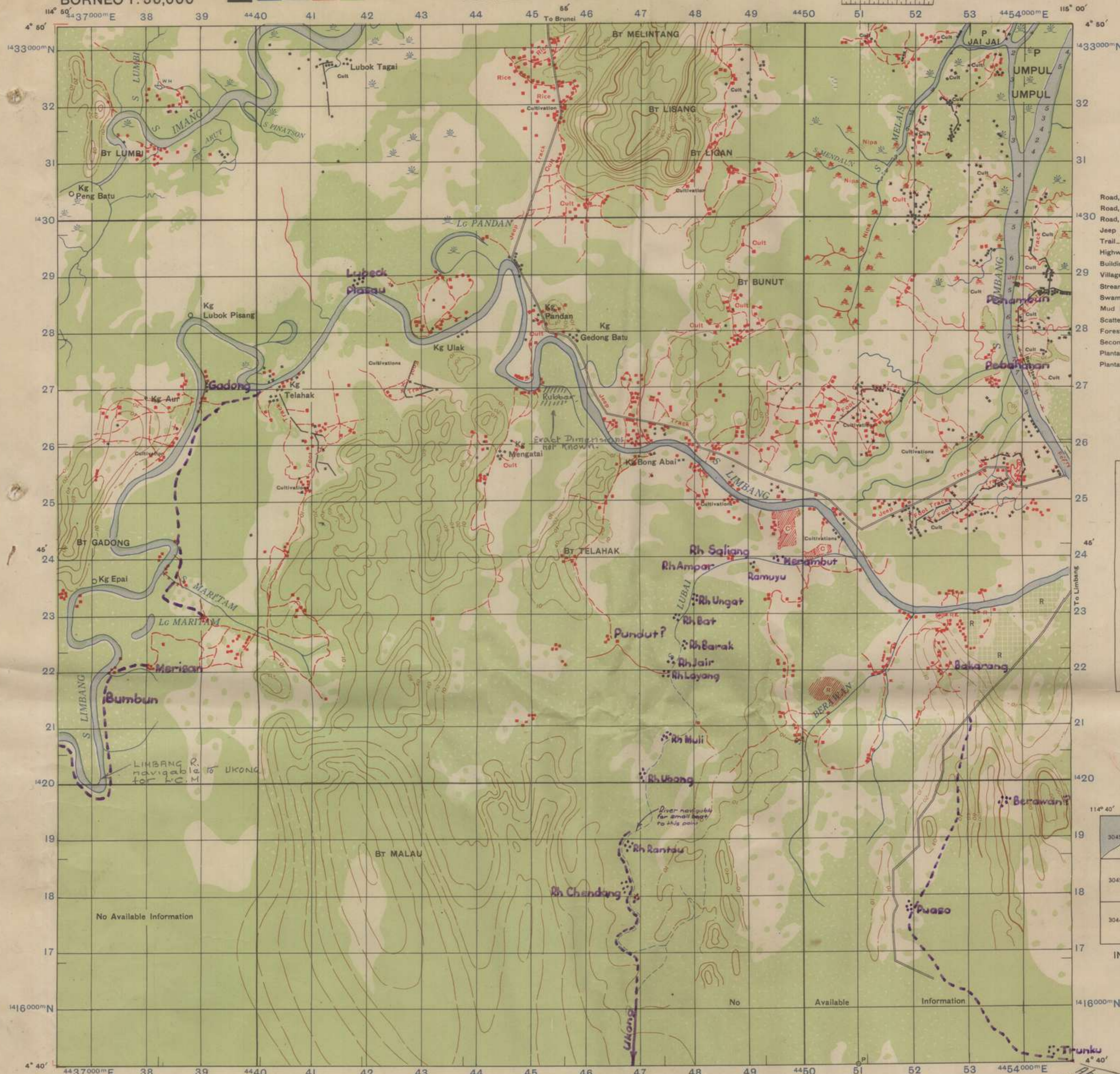
To give the co-ordinates of a point use only the larger figures on the grid lines and add zeros.
 The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
 EXAMPLE: DANAU (A44) (PE 028) (UN) (PE 08-28)
 ALWAYS indicate grid letters in giving a reference on this grid.

MIRI BORNEO
 N400-E11400/1 (Greenwich)

BORNEO 1:50,000

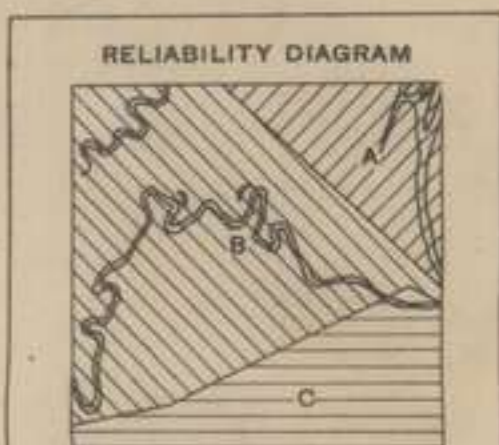
LIMBANG RIVER

SHEET 3045-II



LEGEND

- Road, hard surfaced
- - - Road, lightly surfaced
- - - Road, earth
- - - Jeep Track
- - - Trail
- Highway Bridge
- Buildings or Huts
- Villages (Reported)
- Streams
- ▭ Swamp
- ▭ Mud Flats
- ▭ Scattered Trees
- ▭ Forest
- ▭ Secondary Growth
- ▭ Plantation (Coconuts)
- ▭ Plantation (Rubber)



A. Reliable: from large scale vertical photography
 B. Fairly Reliable: from small scale vertical photography.
 C. Sketchy: from clouded vertical & oblique photography.

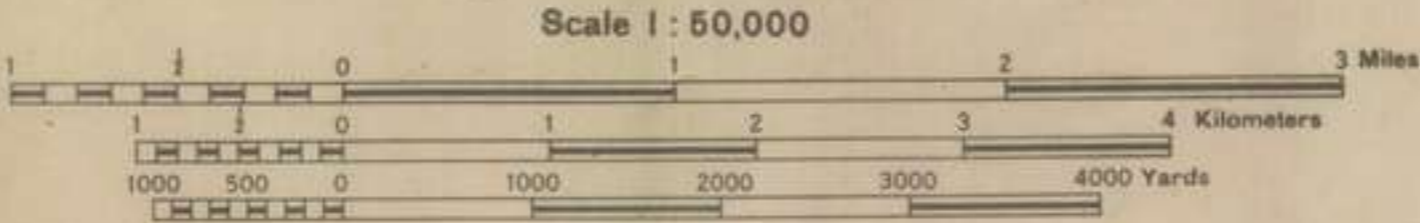


ADV/032/0045 1CO/032/3763
 CONTROL: British Trigonometrical Survey 1937.
 AIR PHOTOGRAPHY: 2 Photo Charting Sqn, 311 Photo Wing, U.S.A.A.F. Missions 5MC7 Feb 45, 5MC20 Feb 45 and 5MC21 Feb 45.
 COMPILATION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, from Air Photos: Terrain Study 89 by A.G.S. S.W.P.A.; 1:36,000 Entrance to Sungai Brunel by U.S. Hydrographic Office 1945 and 1:253,440 Map of MIRI prepared by Aust Svy Corps 1944.
 DRAWING & REPRODUCTION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, Apr 45.

ABBREVIATIONS

Kg	KAMPONG (VILLAGE)
Bt	BUKIT (HILL)
P	PULAU (ISLAND)
Tg	TANJONG (CAPE)
S	SUNGAI (RIVER)
Lg	LOGAN (OLD RIVER BED)

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE'S INCREASE
 Use diagram only to obtain meridian values. To determine magnetic north line connect the point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as printed on the degree scale at the north edge of the map.



CONTOUR INTERVAL 20 METRES EXCEPT FIRST 10 METRES SHOWN IN BROKEN LINE
 LAMBERT CONICAL ORTHOMORPHIC PROJECTION
 HEIGHTS AND DEPTHS IN METRES
 WARNING: FORMLINES ONLY ON SOUTHERN PORTION.

TO GIVE A GRID REFERENCE ON THIS SHEET ALWAYS QUOTE THE SHEET NAME PAY ATTENTION TO LARGER MARGINAL FIGURES ONLY

POINT Kg GEDONG BATU

East	45	North	27
Estimate tenths Eastwards	B	Estimate tenths Northwards	B
REFERENCE: LIMBANG RIVER 458279			

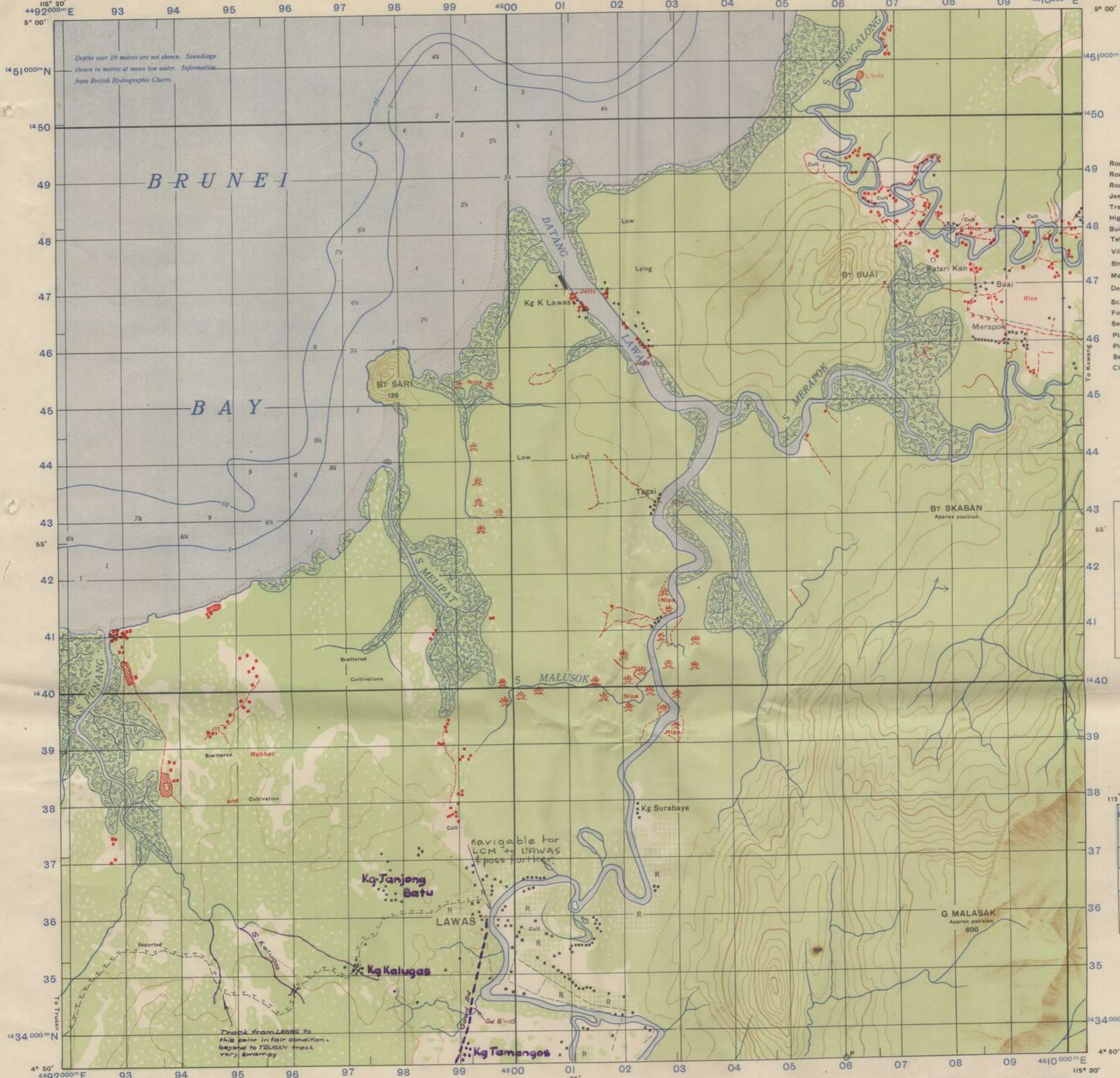
Unit: Square
 Nearest similar CO-ORDINATE REFERENCE DISTANT: 100 KILOMETRES

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H Q OF FORCE CONCERNED.

NOTE: Overprinted in Red by 1 Aust Mob Litho Sec (AIF) Aust Svy Corps, 15 June '45, information from large scale air photos, Missions 5MI0B (IV) April '45, 5MPI40 (2V & 3V), 5MPI42 (3V & 6V), 5MPI41 (5V & 9V) May '45, 5MC7H (IV), 5MCI0H (6V) Feb '45

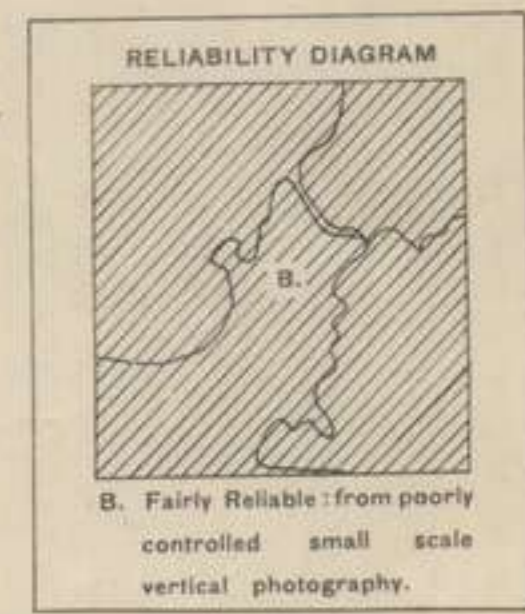
Book travelling line LIMBANG - ABOT 5 hrs - rough going & swampy in places

LIMBANG RIVER
BORNEO



LEGEND

- Road, hard surfaced.....
- Road, lightly surfaced.....
- Road, earth.....
- Jeep Track.....
- Trail.....
- Highway Bridge.....
- Buildings or Huts.....
- Telephone or Telegraph Line.....
- Village (Reported).....
- Streams.....
- Mangroves.....
- Depth Line.....
- Scattered Trees.....
- Forest.....
- Secondary Growth.....
- Plantation (Coconut).....
- Plantation (Rubber).....
- Sand.....
- Cliffs.....



INDEX TO SHEETS

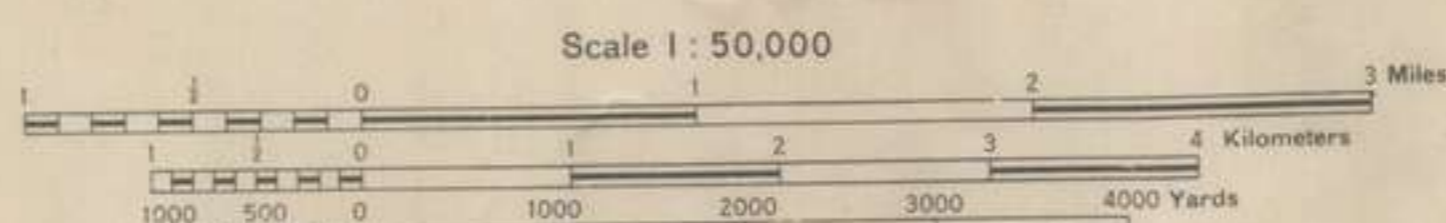
BRUNEI 3146-11	BAY 3246-III	3246-11
3145-1	LAWAS 3245-IV	3245-1
3145-11	3245-III	3245-11

ADV/032/0904-
ICO/032/3766
CONTROL: Triangulation of Brunei 1937.
AIR PHOTOGRAPHY: 2 Photo Charting Sq, 311 Photo Wing, U.S.A.A.F. Missions 5MC6-F-3 Feb 45 and 5MC19-H-1 Feb 45.
COMPILATION: 1 Aust Mob Litho Sec A.I.F., Aust Svy Corps from Air Photos; British Hydrographic Chart No 2123; Terrain Study 89 by A.G.S. S.W.P.A.; 1:36,000 Entrance to Sungai Brunei by U.S. Hydrographic Office 1945 and 1:253,440 map of MIRI prepared by Aust Svy Corps 1944.
DRAWING: 1 Aust Mob Litho Sec A.I.F., Aust Svy Corps, Apr 45.
REPRODUCTION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps May 45.

ABBREVIATIONS

G	GUNONG (MOUNTAIN)
BT	BUKIT (HILL)
Kg	KAMPONG (VILLAGE)
S	SUNGAI (RIVER)

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
ANNUAL MAGNETIC CHANGE 7 INCREASE
Use diagram only to obtain numerical values.
To determine magnetic north line against the grid point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the diagram scale at the north edge of the map.



CONTOUR INTERVAL 20 METRES EXCEPT FIRST 10 METRES SHOWN IN BROKEN LINE
LAMBERT CONICAL ORTHOMORPHIC PROJECTION
HEIGHTS & DEPTHS IN METRES

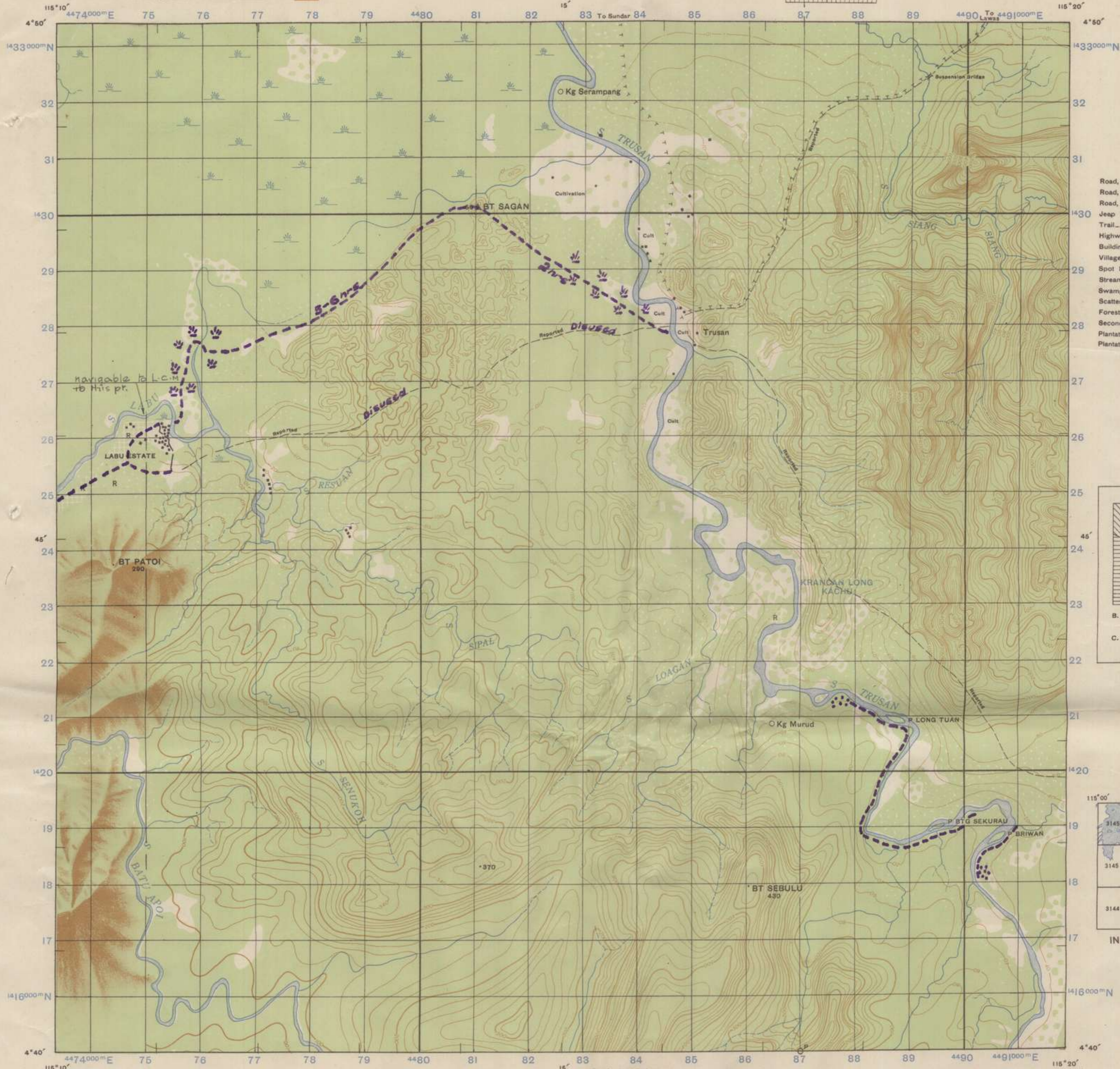
NETHERLANDS EAST INDIES EQUATORIAL ZONE GRID

TO GIVE A GRID REFERENCE ON THIS SHEET ALWAYS QUOTE THE SHEET NAME
PAY ATTENTION TO LARGER MARGINAL FIGURES ONLY

POINT TAGAI	
EAST TAKE WEST EDGE OF SQUARE IN WHICH POINT LIES AND READ THE FIGURE PRINTED OPPOSITE THIS LINE ON NORTH OR SOUTH MARGIN Estimate tenths Eastwards	NORTH TAKE SOUTH EDGE OF SQUARE IN WHICH POINT LIES AND READ THE FIGURE PRINTED OPPOSITE THIS LINE ON EAST OR WEST MARGIN Estimate tenths Northwards
REFERENCE LAWAS 026433	
Unit Square	Metres 1000 METRES
	Nearest similar co-ordinate REFERENCE DOT 100 KILOMETRES

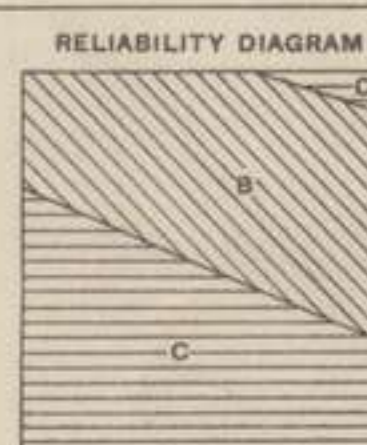
NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H Q OF FORCE CONCERNED.

LAWAS
BORNEO

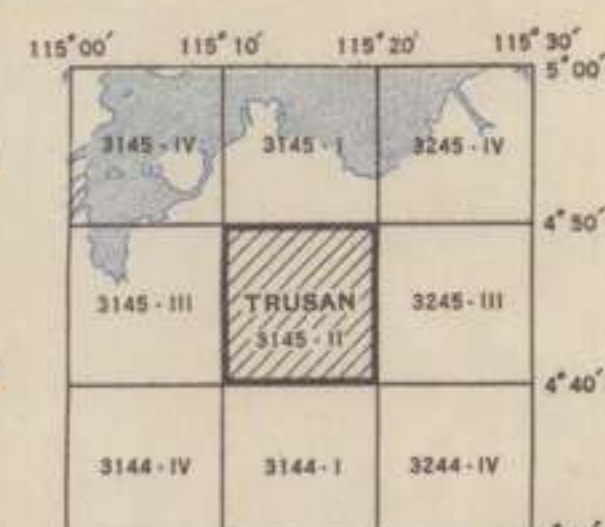


LEGEND

Road, hard surfaced	—
Road, lightly surfaced	—
Road, earth	—
Jeep Track	—
Trail	—
Highway Bridge	—
Buildings or Huts	■
Villages (Resorted)	○
Spot Elevation	+141
Streams	—
Swamp	—
Scattered Trees	—
Forest	—
Secondary Growth	—
Plantation (Coconut)	C
Plantation (Rubber)	R



B. Fairly Reliable: from small scale vertical photography.
C. Sketchy: from oblique photography.



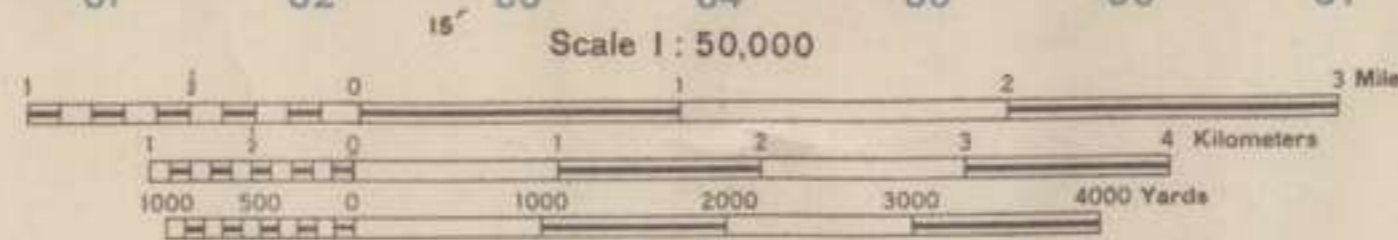
INDEX TO SHEETS

CONTROL: British Trigonometrical Survey 1937.
AIR PHOTOGRAPHY: 2 Photo Charting Sqn, 311 Photo Wing, U.S.A.A.F. Mission 5MC28 Feb 45.
COMPILATION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, from Air Photos, Terrain Study 89 by A.G.S. S.W.P.A., and 1:253,440 map of LABUAN prepared by Aust Svy Corps 1944.
DRAWING & REPRODUCTION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, Apr 45.

ABBREVIATIONS

BT	BUKIT	(HILL)
S	SUNGAI	(RIVER)
P	PULAU	(ISLAND)
Kg	KAMPONG	(VILLAGE)
Btg	BATANG	(MAIN STREAM)

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
ANNUAL MAGNETIC CHANGE 2' INCREASE
Use diagram only to obtain numerical values.
To determine magnetic north line connect the point 'M' on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale of the north edge of the map.



CONTOUR INTERVAL 20 METRES EXCEPT FIRST 10 METRES
SHOWN IN BROKEN LINE
LAMBERT CONICAL ORTHOMORPHIC PROJECTION
HEIGHTS & DEPTHS IN METRES

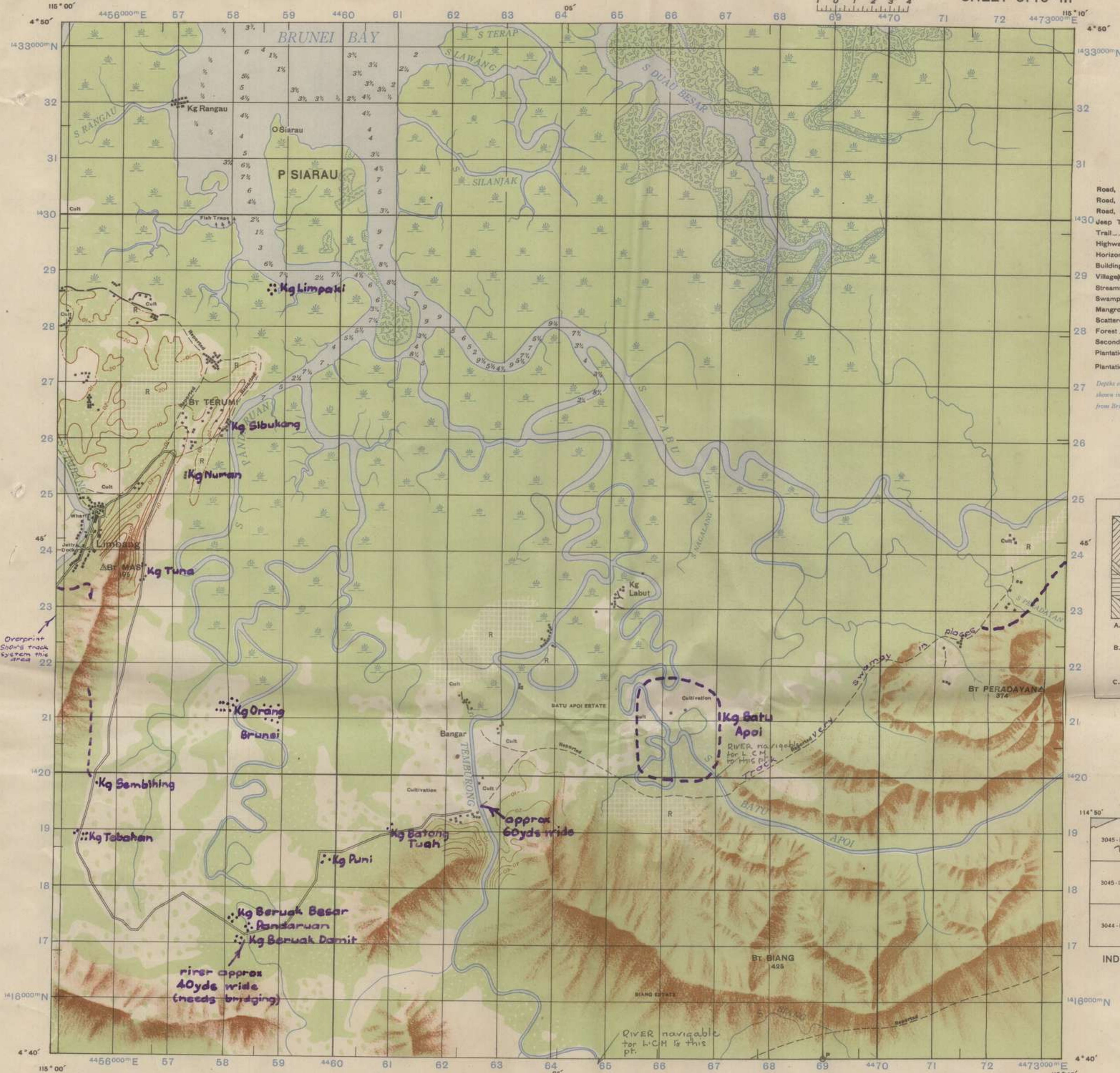
NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H O OF FORCE CONCERNED.

NETHERLANDS EAST INDIES EQUATORIAL ZONE GRID

TO GIVE A GRID REFERENCE ON THIS SHEET
ALWAYS QUOTE THE SHEET NAME.
PAY ATTENTION TO LARGER MARGINAL FIGURES ONLY

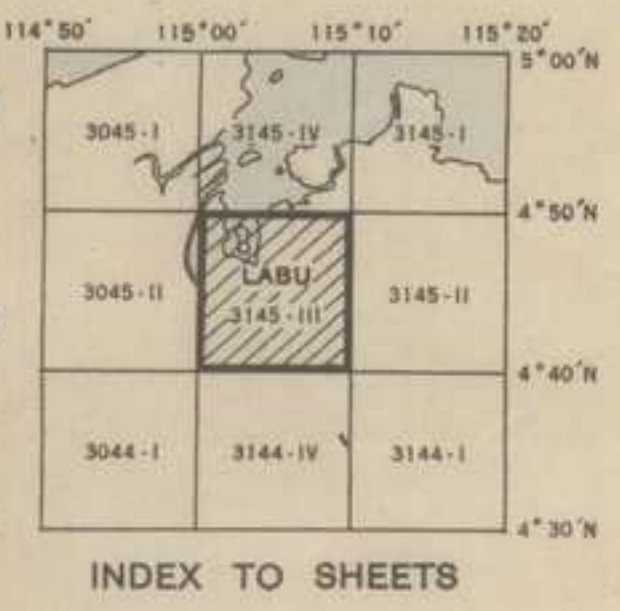
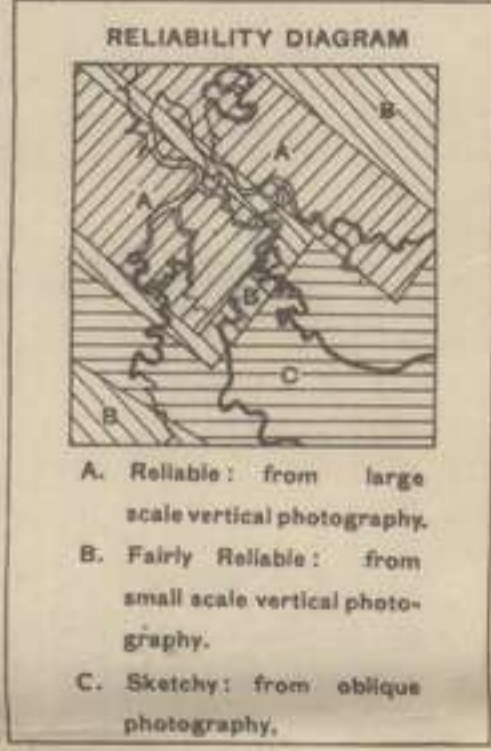
POINT Kg MURUD	
East	North
86	209
Estimate to the Eastwards	Estimate to the Northwards
865	209
REFERENCE TRUSAN	865209
Unit	Metre
Square	1000 METRES
Nearest SIMILAR CO-ORDINATE REFERENCE DISTANT	100 KILOMETRES

TRUSAN
BORNEO



LEGEND

- Road, hard surfaced
- Road, lightly surfaced
- Road, earth
- Jeep Track
- Trail
- Highway Bridge
- Horizontal Control Point
- Buildings or Huts
- Village (reported)
- Streams
- Swamp
- Mangroves
- Scattered Trees
- Forest
- Secondary Growth
- Plantation (Cassava)
- Plantation (Rubber)



ADV/032/0647
 CONTROL: British Trigonometrical Survey 1937.
 AIR PHOTOGRAPHY: 2 Photo Charting Sqn, 311 Photo Wing, U.S.A.A.F. Missions SMC7 Feb 45, SMC21 Feb 45 SMC28 Feb 45 and SMC10 Feb 45.
 COMPILATION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, from Air Photos: Terrain Study 89 by A.G.S. S.W.P.A.; 1:36,000 Entrance to Sungai Brunei by U.S. Hydrographic Office 1945; British Hydrographic Charts Nos 2123 & 1844 and 1:253,440 Map of MIRI prepared by Aust Svy Corps 1944.
 DRAWING & REPRODUCTION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, Apr 45.

ABBREVIATIONS
 KG KAMPONG (VILLAGE)
 BT BUKIT (HILL)
 P PULAU (ISLAND)
 S SUNGAI (RIVER)

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

Scale 1:50,000

1 0 1 2 3 4 Kilometers
 1000 500 0 1000 2000 3000 4000 Yards

CONTOUR INTERVAL 20 METRES EXCEPT FIRST 10 METRES SHOWN IN BROKEN LINE
 LAMBERT CONICAL ORTHOMORPHIC PROJECTION
 HEIGHTS AND DEPTHS IN METRES

NEAREST SIMILAR CO-ORDINATE REFERENCE DISTANT 100 KILOMETRES

NETHERLANDS EAST INDIES EQUATORIAL ZONE GRID

TO GIVE A GRID REFERENCE ON THIS SHEET ALWAYS QUOTE THE SHEET NAME. PAY ATTENTION TO LARGER MARGINAL FIGURES ONLY.

POINT SIARAU	
EAST	NORTH
58	31
Estimate tenths Eastwards	Estimate tenths Northwards
EAST 588	NORTH 315
REFERENCE LABU 588315	
Unit	Metre
Square	1000 METRES
Nearest Similar Co-ordinate Reference Distant	100 KILOMETRES

LABU BORNEO

BORNEO 1:50,000

BANG TANGUR

FIRST EDITION SWPA I

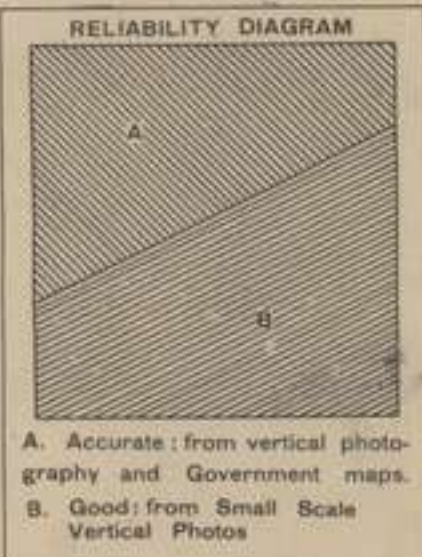
SHEET 2944-I



1414000m N — LEGEND

Highway hard surfaced	—
Roads hard surfaced	—
Roads lightly surfaced	—
Roads earth minor M.T.	—
Track jeep	—
Trail	—
Telephone or telegraph lines	—
Bridge	—
Footbridge	—
Railway narrow gauge	—
Buildings or huts	—
Tanks, oil	—
Wells, oil	—
Church	—
Lighthouse	—
Gardens	—
Shallow or drying reef	—
Streams	—
Streams intermittent	—
Swamp	—
30 foot depth line	—
Rice fields	—
Mud flats	—
Drain	—
Mangroves	—
Forest	—
Secondary growth	—
Scattered trees	—
Plantations	—
Cliffs	—
Sand	—

CONVERSION TABLE



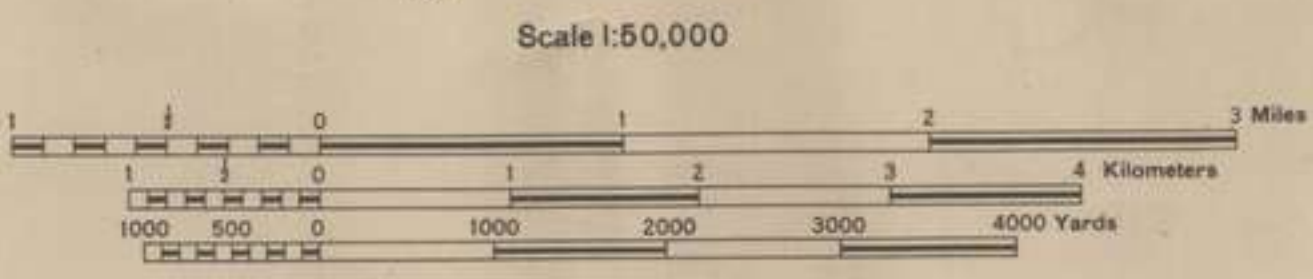
LHQ/032/3149
SWPA T731
CONTROL: 1st and 2nd Order Triangulation and 1:63,360 maps by Surveyor General FMS & SS and Shell Oil Coy Surveys.
AIR PHOTOGRAPHY: Missions 5MO21-JI and Shell Oil Coy Photographs.
COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from Air Photographs, 1:63,360 map by FMS & SS and Shell Oil Coy Maps.
DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.

Glossary

- Tandjoeng: Tg. — cape
- Baai: Bor Bi. — bay
- Straat: Str. — strait
- Boekit: Bi. — hill
- Brangka: Br. — marsh
- Danau: D. — lake
- Gezaghebber: Gh. — admstr office
- Goenoeng: G. — mountain
- Ladang: L. — cultivated land
- Moesara, Koelaa: — river mouth
- Moenngkoer: Mr. — hill top
- Pindang: — plain, field
- Peinatang: — ridge, dam
- Soengai: S. — river

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
ANNUAL MAGNETIC CHANGE 2" INCREASE
Use diagram only to obtain numerical values.
To determine magnetic north line connect the point point 'P' on the north edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.



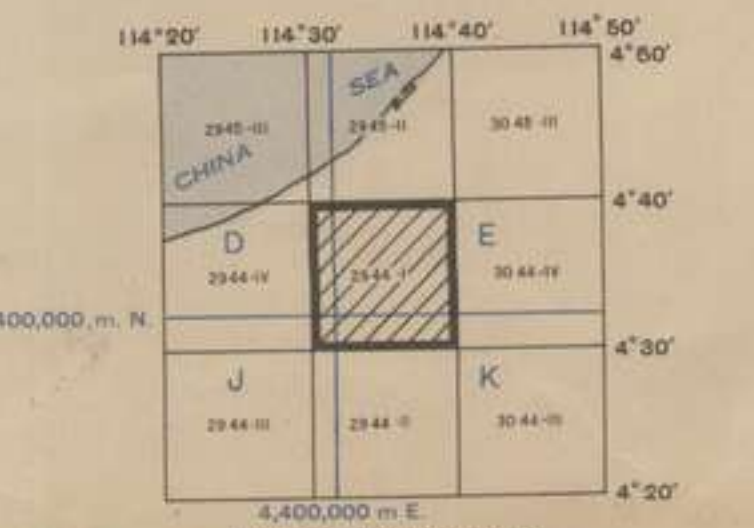
CONTOUR INTERVAL 20 METRES DATUM SEA LEVEL

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE. H Q OF FORCE CONCERNED.

HEIGHTS IN METRES

BRITISH METRIC GRID (Blue)
N.E.I. EQUATORIAL ZONE
Projection: Lambert Conical Orthomorphic
Origin: Equator and 110° E
False Co-ordinates 3,900,000 metres East of Origin
900,000 metres North

To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
EXAMPLE: BT, BANG TANGUR (Aust) 20096; (US) 120-096
ALWAYS state SHEET NAME in giving a reference on this grid.



BANG TANGUR
BORNEO
N 430-E11430/10 (Greenwich)

BORNEO 1:50,000

BT. DEDAP

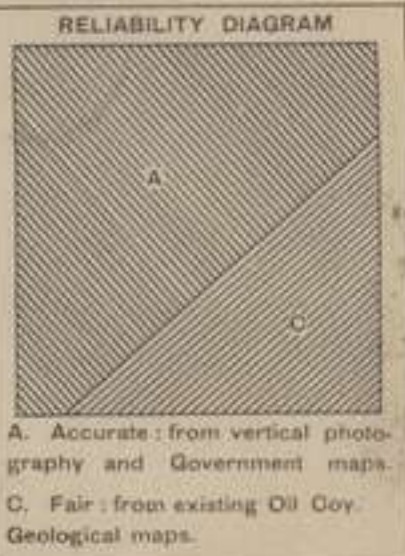
FIRST EDITION SWPA 1

SHEET 3045-III



LEGEND

- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- Trail
- Track jeep
- Telephone or telegraph lines
- Bridge
- Footbridge
- Railway narrow gauge
- Buildings or huts
- Tanks, oil
- Wells, oil
- Church
- Lighthouse
- Gardens
- Shallow or drying reef
- Streams
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mud flats
- Drain
- Mangroves
- Forest
- Secondary growth
- Scattered trees
- Plantations
- Cliffs
- Sand



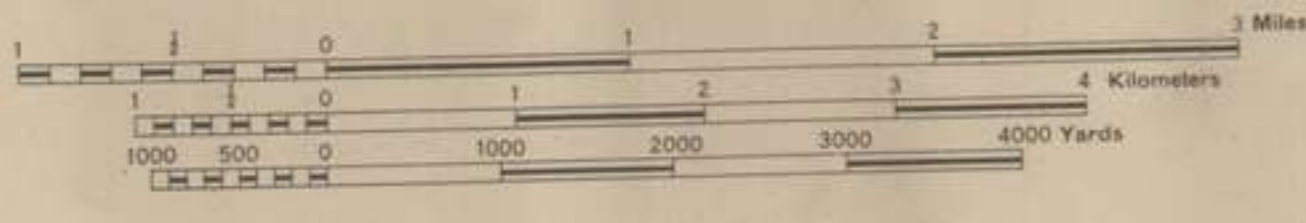
CONTROL: 1st and 2nd Order Triangulation and 1:63,360 map by Surveyor General FMS & SS Shell Oil Coy Surveys.
AIR PHOTOGRAPHY: Missions SMC21-J1.
COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from Air Photographs, 1:63,360 maps by FMS & SS, Shell Oil Coy Maps and Surveys, Strat Eng Study No. 115 and Terrain Study No. 89.
DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.

Glossary

Tandjong: Tg	cape
Baai: Bor B	bay
Sirat: Str	strait
Boekit: Bt	hill
Brangka: Br	marsh
Danau: D	lake
Gezaghebber: Gh	admstr. office
Goenoeng: G	mountain
Ladang: L	cultivated land
Moera, Koela	river mouth
Moengkoer: Mr	hill top
Padang	plain, field
Pematang	ridge, dam
Soemgai: S	river
Kampung: Kg	village

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE 3" INCREASE
 Use diagram only to obtain numerical values.
 To determine magnetic north line across the grid point "B" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.



CONTOUR INTERVAL 20 METRES DATUM SEA LEVEL

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

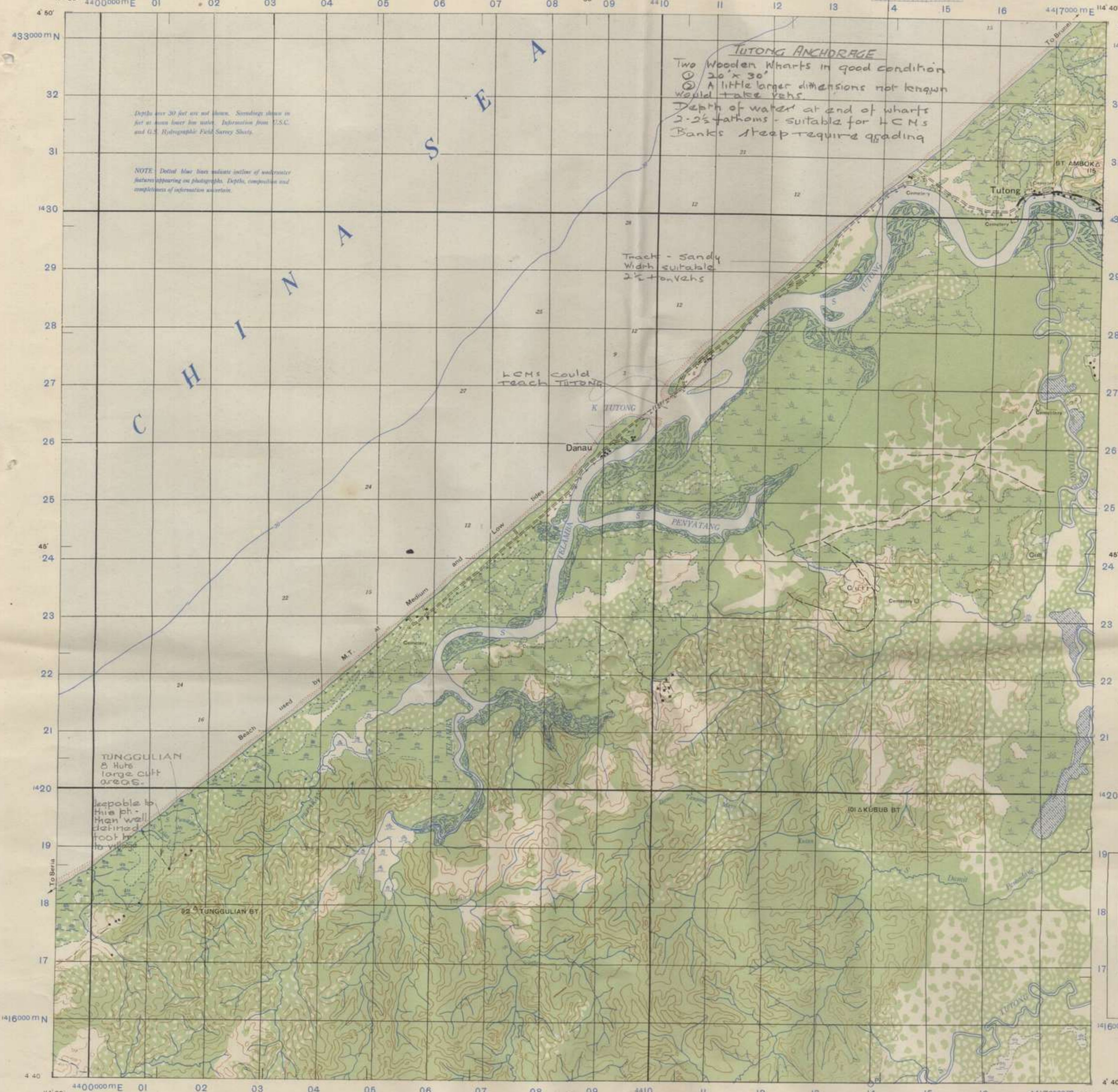
HEIGHTS IN METRES

BRITISH METRIC GRID (Blue)
 N.E.I. EQUATORIAL ZONE
 Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110° E
 False Co-ordinates 3,900,000 metres East of Origin
 900,000 metres North

To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
 The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
 EXAMPLE: Kg. WASAN (Aust) 325274; (US) 3215-274
 ALWAYS state SHEET NAME in giving a reference on this grid.

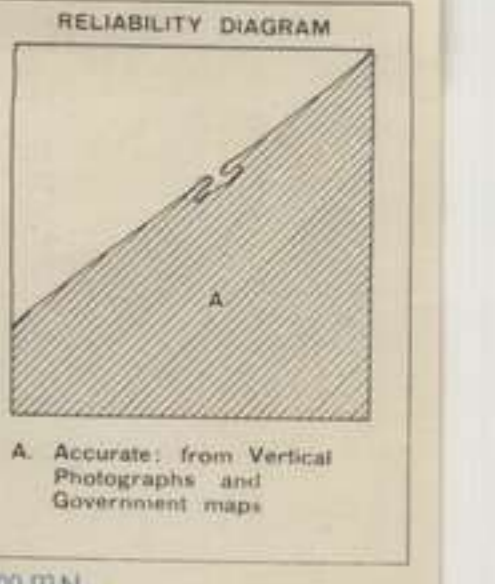


BT. DEDAP BORNEO
 N 440 - E 11440/10 (Greenwich)



LEGEND

- Highway hard surfaced
- Roads hard surfaced
- Roads lightly surfaced
- Track jeep
- Trail
- Railway narrow gauge
- Buildings or huts
- Bridge
- Footbridge
- Shallow or drying reef
- Church
- Lighthouse
- Telephone or telegraph lines
- Streams
- Streams intermittent
- Swamp
- 30 foot depth line
- Rice fields
- Mangroves
- Mud flats
- Drain
- Gardens
- Forest
- Secondary Growth
- Scattered trees
- Plantations
- Cliffs
- Sand



LHQ/732/314, SWPA 7331

CONTROL: 1st and 2nd Order Triangulation and 1:63,360 maps by Surveyor General FMS & SS.

AIR PHOTOGRAPHY: Missions 5MC21-JL.

COMPILATION: LHQ Cartographic Coy, Aust Svy Corps from Air Photographs, 1:63,360 maps by FMS & SS, US Hydrographic Charts, Srat Eng Study No. 115 and Terrain Study No. 89.

DRAWING & REPRODUCTION: LHQ Cartographic Coy, Aust Svy Corps, Apr 45.

FIRST EDITION

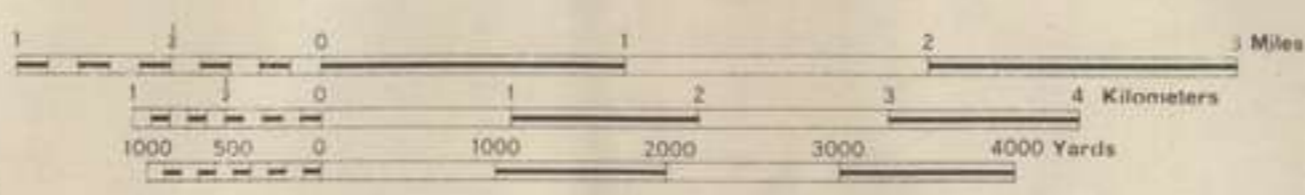
Glossary

- Tandjong: Tg. cape
- Bai: B. bay
- Straat: Str. strait
- Boekit: Bt. hill
- Brangka: Br. marsh
- Danau: D. lake
- Gezaghebber: Gh. admstr office
- Groenong: G. mountain
- Laaiang: L. cultivated land
- Moears, Koala: river mouth
- Mieengkoer: Mr. hill top
- Palaang: plain, field
- Pematang: ridge, dam
- Soengai: S. river

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE 2" INCREASE
 Use diagram only to obtain numerical values. To determine magnetic north line connect the pivot point 'P' on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.

CAUTION: This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

Scale 1:50,000



CONTOUR INTERVAL 20 METRES DATUM SEA LEVEL

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

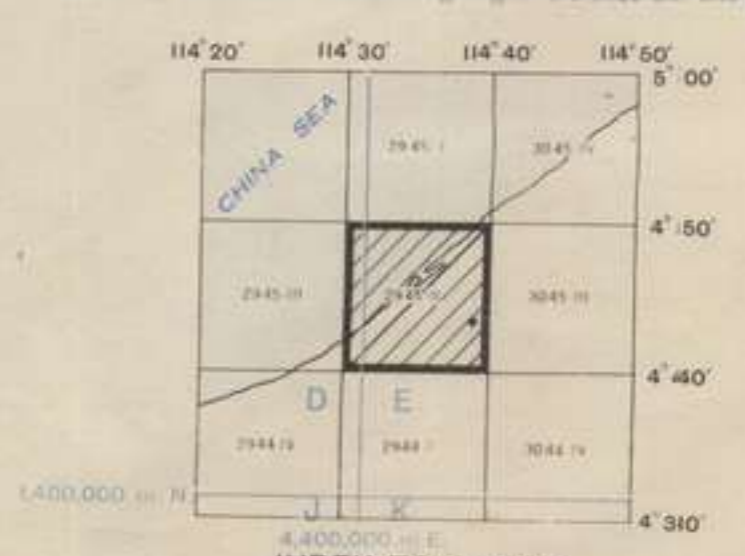
HEIGHTS IN METRES DEPTHS IN FEET

BRITISH METRIC GRID (Blue)

N.E.1. EQUATORIAL ZONE

Projection: Lambert Conical Orthomorphic
 Origin: Equator and 110° E
 False Co-ordinates: 3,900,000 metres East of Origin; 900,000 metres North

To give the co-ordinates of a point use only the larger figures on the grid lines and add tenths.
 The grid numbers at the corners are the full co-ordinates referred to the origin of the grid zone.
 EXAMPLE: DANAU (Aust 590258; US 090-258)
 ALWAYS state SHEET NAME in giving a reference on this grid.

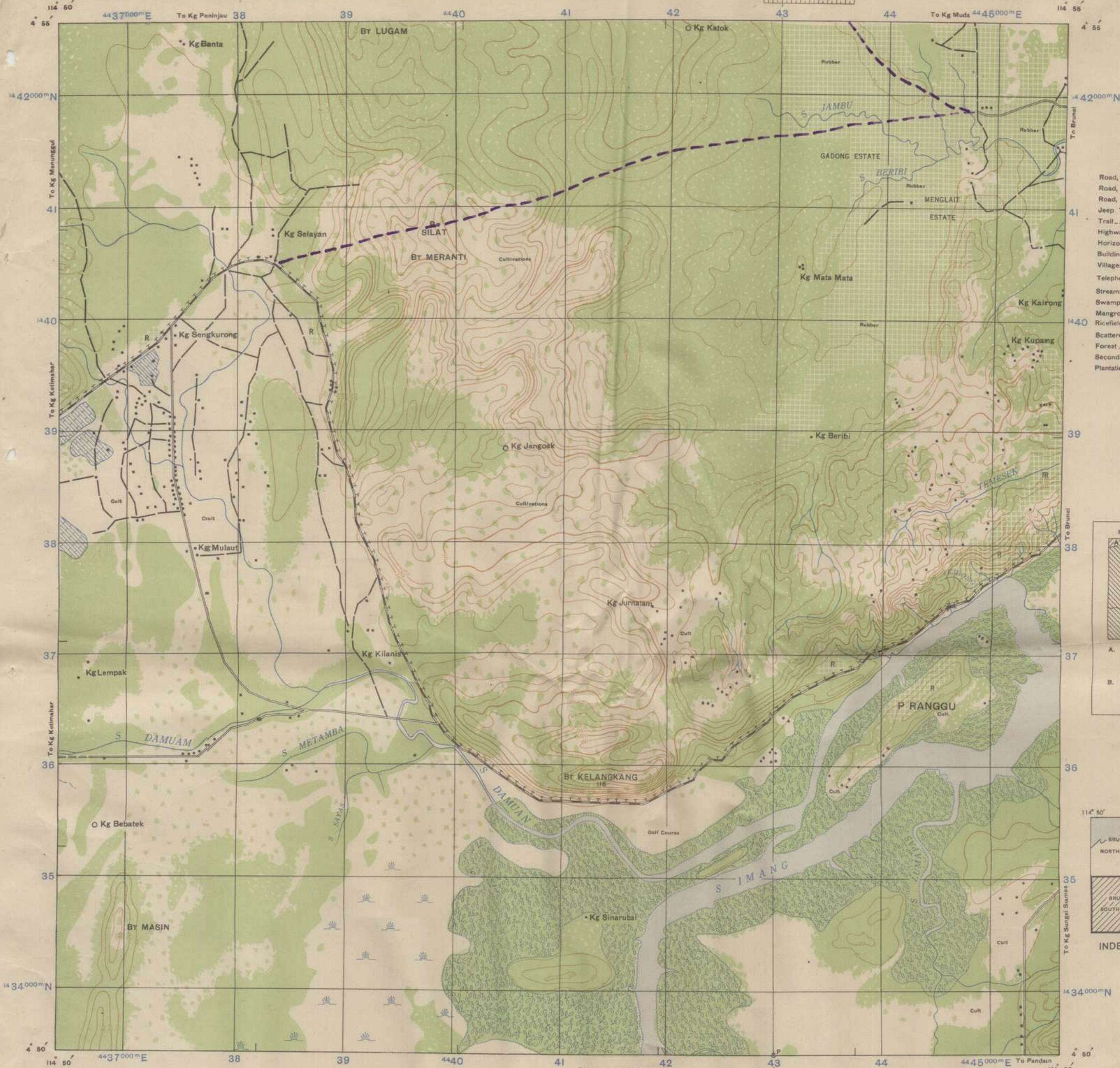


K TUTONG BORNEO
 N440-E11430/10 (Greenwich)

BORNEO 1:25,000

BRUNEI SOUTH WEST

SHEET 3045-1 SW



ADV/1080/0807

CONTROL: British Trigonometrical Survey 11937.

AIR PHOTOGRAPHY: 2 Photo Charting Sqn, 311 Photo Wing, 17 PR Sqn, 8 Photo Group U.S.A.A.F. Missions SMB108 Apr 45, 5MC7 Feb 46, 5MI08 Apr 46, 5MC21 Feb 46, and 5MC20 Feb 46.

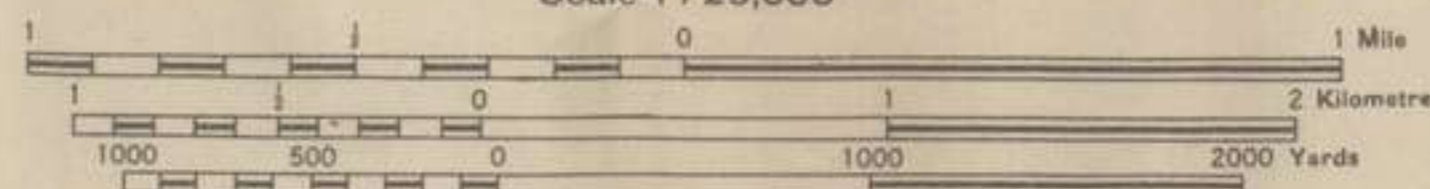
COMPILATION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps from Air Photos: Terrain Study 89 by A.G.S. 55.W.P.A.; 1:36,000 Entrance to Sungai Brunei by U.S. Hydrographic Office 1946; and 1:253,440 Map of MIRI prepared by Aust Svy Corps 1944.

DRAWING & REPRODUCTION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, May 45.

ABBREVIATIONS

Kg KAMPONG (VILLAGE)
 Bt BUKIT (HILL)
 P PULAU (ISLAND)
 S SUNGAI (RIVER)

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE 2" INCREASE
 Use diagram only to obtain meridian values.
 To determine magnetic north line connect the point "P" on the north edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.



CONTOUR INTERVAL 10 METRES

LAMBERT CONICAL ORTHOMORPHIC PROJECTION

HEIGHTS AND DEPTHS IN METRES

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H.Q. OF FORCE CONCERNED.

LEGEND

- Road, hard surfaced
- Road, lightly surfaced
- Road, earth
- Jeep Track
- Trail
- Highway Bridge
- Horizontal Control Point
- Buildings or Huts
- Villages
- Telephone or Telegraph Line
- Streams
- Swamp
- Mangroves
- Ricefields
- Scattered Trees
- Forest
- Secondary Growth
- Plantation

RELIABILITY DIAGRAM



- A. Reliable: from accurately controlled large scale vertical photography.
 B. Fairly Reliable: from small scale vertical photography, oblique photography.



INDEX TO SHEETS

NETHERLANDS EAST INDIES EQUATORIAL ZONE GRID

TO GIVE A GRID REFERENCE ON THIS SHEET

ALWAYS QUOTE THE SHEET NAME

PAY ATTENTION TO LARGER MARGINAL FIGURES ONLY

POINT Kg BERIBI

EAST	3	NORTH	9
TAKE WEST EDGE OF SQUARE IN WHICH POINT LIES AND READ THE FIGURE PRINTED OPPOSITE THIS LINE ON NORTH OR SOUTH MARGIN	43	TAKE SOUTH EDGE OF SQUARE IN WHICH POINT LIES AND READ THE FIGURE PRINTED OPPOSITE THIS LINE ON EAST OR WEST MARGIN	38
Estimate (to the Eastwards)	3	Estimate (to the Northwards)	9
EAST	433	NORTH	389

REFERENCE: BRUNEI SOUTH WEST 433389

UNIT: SQUARE

METER: 1000 METERS

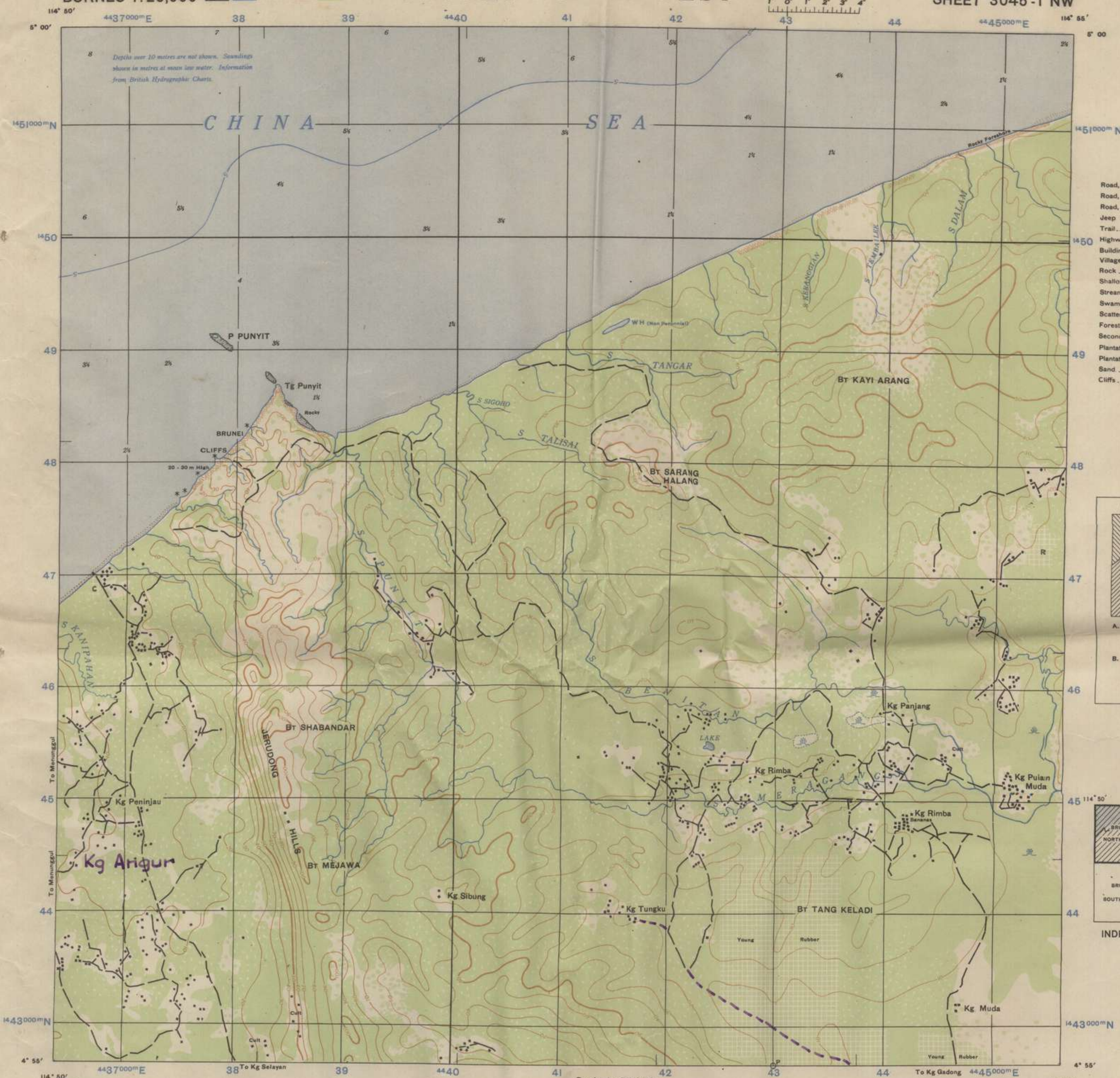
NEAREST SIMILAR CO-ORDINATE REFERENCE DISTANT: 100 KILOMETERS

BRUNEI SOUTH WEST
BORNEO

BORNEO 1:25,000

BRUNEI NORTH WEST

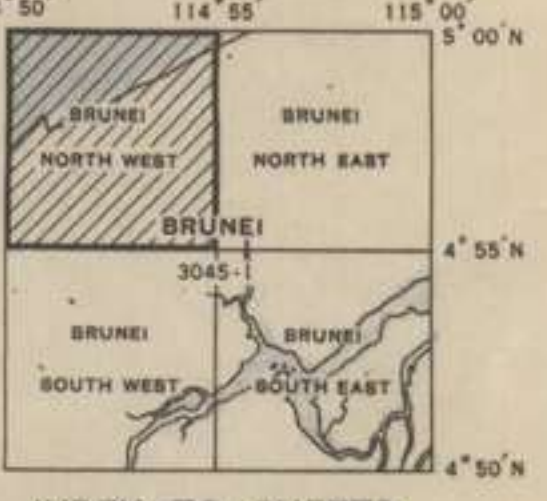
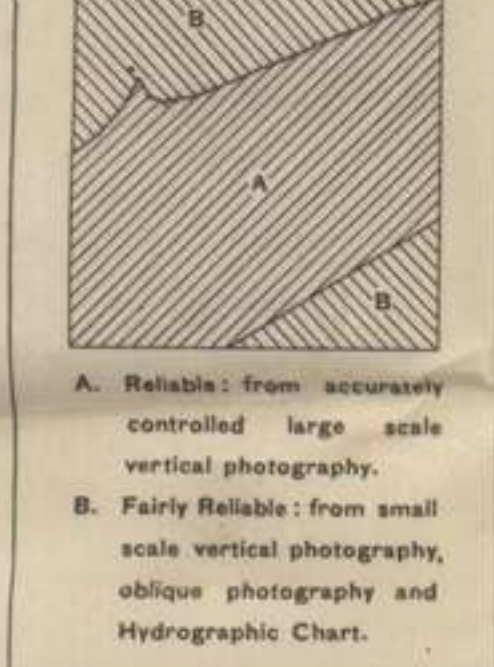
SHEET 3045-I NW



LEGEND

- Road, hard surfaced.....
- Road, lightly surfaced.....
- Road, earth.....
- Jeep Track.....
- Trail.....
- Highway Bridge.....
- Buildings or Huts.....
- Village (Reported).....
- Rock.....
- Shallow or Drying Reef.....
- Streams.....
- Swamp.....
- Scattered Trees.....
- Forest.....
- Secondary Growth.....
- Plantation (Coconuts)..... C
- Plantation (Rubber)..... R
- Sand.....
- Cliffs.....

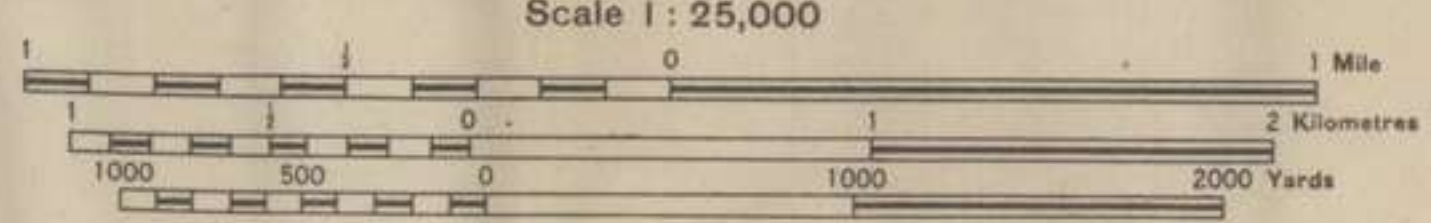
RELIABILITY DIAGRAM



ADV/1080/0806
 CONTROL: British Trigonometrical Survey 1937.
 AIR PHOTOGRAPHY: 2 Photo Charting Sqn, 311 Photo Wing, 17 P.R. Sqn, 8 Photo Group U.S.A.A.F. Missions 5MB108 Apr 45, 5M108 Apr 45, 5MCT Feb 45, 5M108 Apr 45 and 5MC21 Feb 45.
 COMPILATION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps from Air Photos; Terrain Study 89 by A.G.S. S.W.P.A.; 1:30,000 Entrance to Sungai Brunei by U.S. Hydrographic Office 1945; British Hydrographic Charts Nos 1844 and 3123 and 1:253,440 Map of MIRI prepared by Aust Svy Corps 1944.
 DRAWING & REPRODUCTION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, May 45.

- ABBREVIATIONS
- Kg KAMPONG (VILLAGE)
 - Bt BUKIT (HILL)
 - P PULAU (ISLAND)
 - Tg TANJONG (CAPE)
 - S SUNGAI (RIVER)

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET
 ANNUAL MAGNETIC CHANGE 7 INCREASE
 The diagram only to obtain numerical values.
 To determine magnetic north line connect the point 'M' on the south edge of the map with the value of the angle between 0910 NORTH and MAGNETIC NORTH, as plotted on the degree scale of the north edge of the map.



CONTOUR INTERVAL 10 METRES
 LAMBERT CONICAL ORTHOMORPHIC PROJECTION
 HEIGHTS AND DEPTHS IN METRES

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H Q OF FORCE CONCERNED.

NETHERLANDS EAST INDIES EQUATORIAL ZONE GRID

TO GIVE A GRID REFERENCE ON THIS SHEET ALWAYS QUOTE THE SHEET NAME PAY ATTENTION TO LARGER MARGINAL FIGURES ONLY

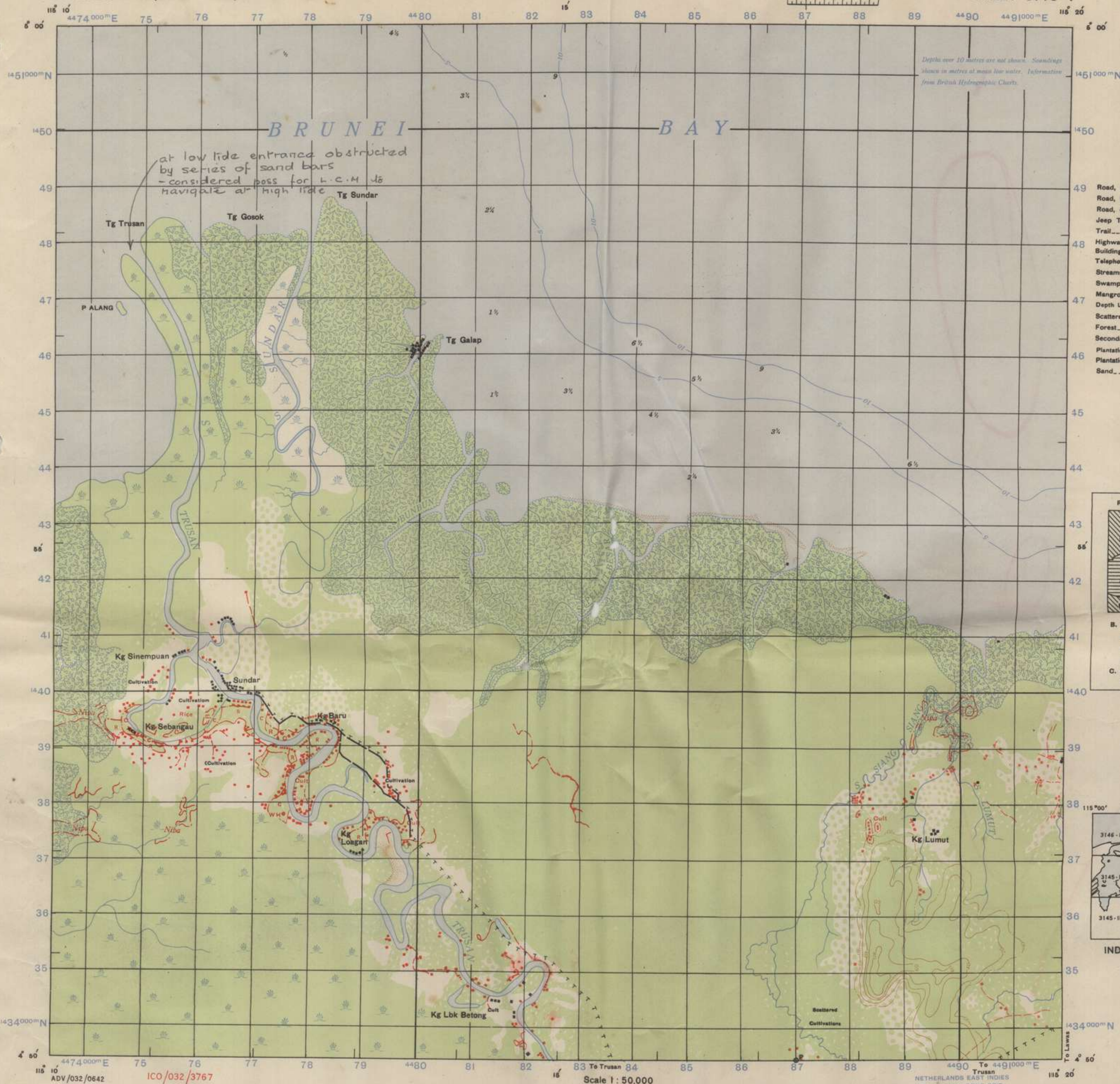
POINT	Kg MUDA	
EAST	44	43
WEST	44	43
NORTH	43	42
SOUTH	43	42
REFERENCE BRUNEI NORTH WEST 447432		
UNIT	METRE	
SQUARE	1000 METRES	
NEAREST SIMILAR CO ORDINATE REFERENCE POINT	100 KILOMETRES	

BRUNEI NORTH WEST BORNEO

BORNEO 1:50,000

SUNDAR

SHEET 3145-I



LEGEND

- Road, hard surfaced
- Road, lightly surfaced
- Road, earth
- Jeep Track
- Trail
- Highway Bridge
- Buildings or Huts
- Telephone or Telegraph Line
- Streams
- Swamp
- Mangroves
- Depth Line
- Scattered Trees
- Forest
- Secondary Growth
- Plantation (Coconut)
- Plantation (Rubber)
- Sand

RELIABILITY DIAGRAM



- B. Fairly Reliable: from small scale vertical photography and Hydrographic Charts.
- C. Sketchy: from oblique photography.



INDEX TO SHEETS

CONTROL: British Trigonometrical Survey 1937.

AIR PHOTOGRAPHY: 2 Photo Charting Sqn, 311 Photo Wing, U.S.A.A.F. Mission 5MC28 Feb 45.

COMPILED: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, from Air Photos: British Hydrographic Charts Nos 1844 & 2122; Terrain Study 89 by A.G.S. S.W.P.A.; 1:36,000 Entrance to Sungai Brunei by U.S. Hydrographic Office 1945 and 1:253,440 Map of LABUAN prepared by Aust Svy Corps 1944.

DRAWING & REPRODUCTION: 2/1 Aust Army Topo Svy Coy, Aust Svy Corps, Apr 45.

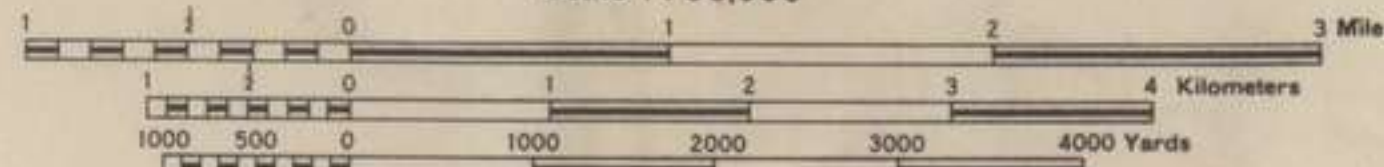
ABBREVIATIONS

- Kg KAMPONG (VILLAGE)
- P PULAU (ISLAND)
- Tg TANJONG (CAPE)
- S SUNGAI (RIVER)
- Lbk LUBOK (DEEP POOL IN A RIVER)

NOTE: OFFICERS USING THIS MAP ARE REQUESTED TO MAKE ANY NECESSARY ADDITIONS AND AMENDMENTS ON THE MAP ITSELF AND FORWARD SAME TO SURVEY DIRECTORATE, H Q OF FORCE CONCERNED.

APPROXIMATE MEAN DECLINATION 1944 FOR CENTER OF SHEET ANNUAL MAGNETIC CHANGE 3" INCREASE

Use diagram only to obtain numerical values. To determine magnetic north line connect the point 'M' on the north edge of the map with the value of the angle between 'S' and 'M' on the north edge of the map.



CONTOUR INTERVAL 20 METRES EXCEPT FIRST 10 METRES SHOWN IN BROKEN LINE
 LAMBERT CONICAL ORTHOMORPHIC PROJECTION
 HEIGHTS AND DEPTHS IN METRES

NOTE: Red Overprint by 2/1 Aust Army Topo Svy Coy, Aust Svy Corps from Air Photos, 17 Photo Recce Sqn, 6 Photo Group, U.S.A.A.F. Missions 6MP147 (9-V), 6MP4 (1-V), 6MP131 (5-V), May '45

TO GIVE A GRID REFERENCE ON THIS SHEET ALWAYS QUOTE THE SHEET NAME PAY ATTENTION TO LARGER MARGINAL FIGURES ONLY

POINT Kg LUMUT	
EAST	NORTH
1000	1000
500	500
0	0
500	500
1000	1000
1500	1500
2000	2000
2500	2500
3000	3000
3500	3500
4000	4000
4500	4500
5000	5000
5500	5500
6000	6000
6500	6500
7000	7000
7500	7500
8000	8000
8500	8500
9000	9000
9500	9500
10000	10000

REFERENCE SUNDAR 855375
 UNIT Square
 NEAREST SIMILAR CO-ORDINATE REFERENCE SYSTEM 100 KILOMETRES

SUNDAR
BORNEO