PL. 5

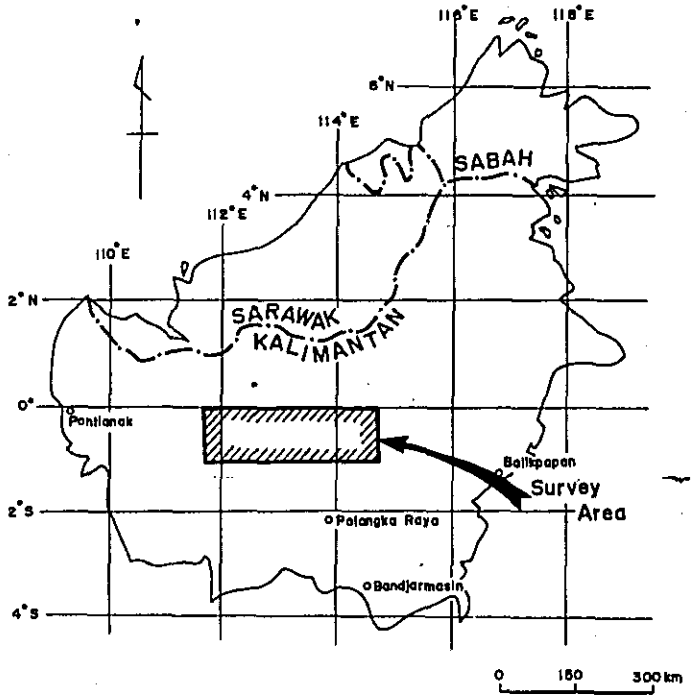
METAL MINING AGENCY OF JAPAN — GEOLOGICAL SURVEY OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY

PHOTO - GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN, INDONESIA

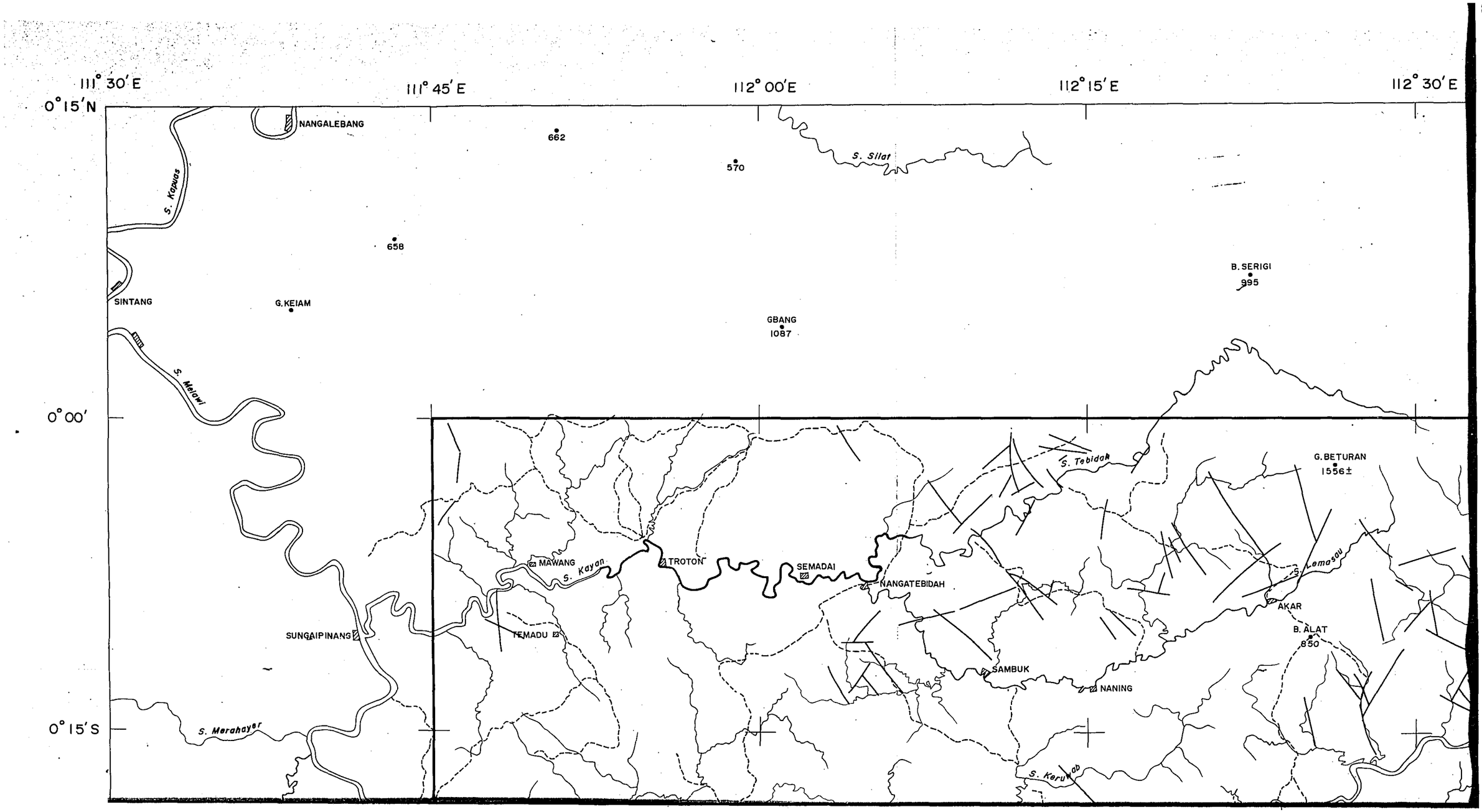
LINEAMENT MAP
PHOTO-GEOLOGY

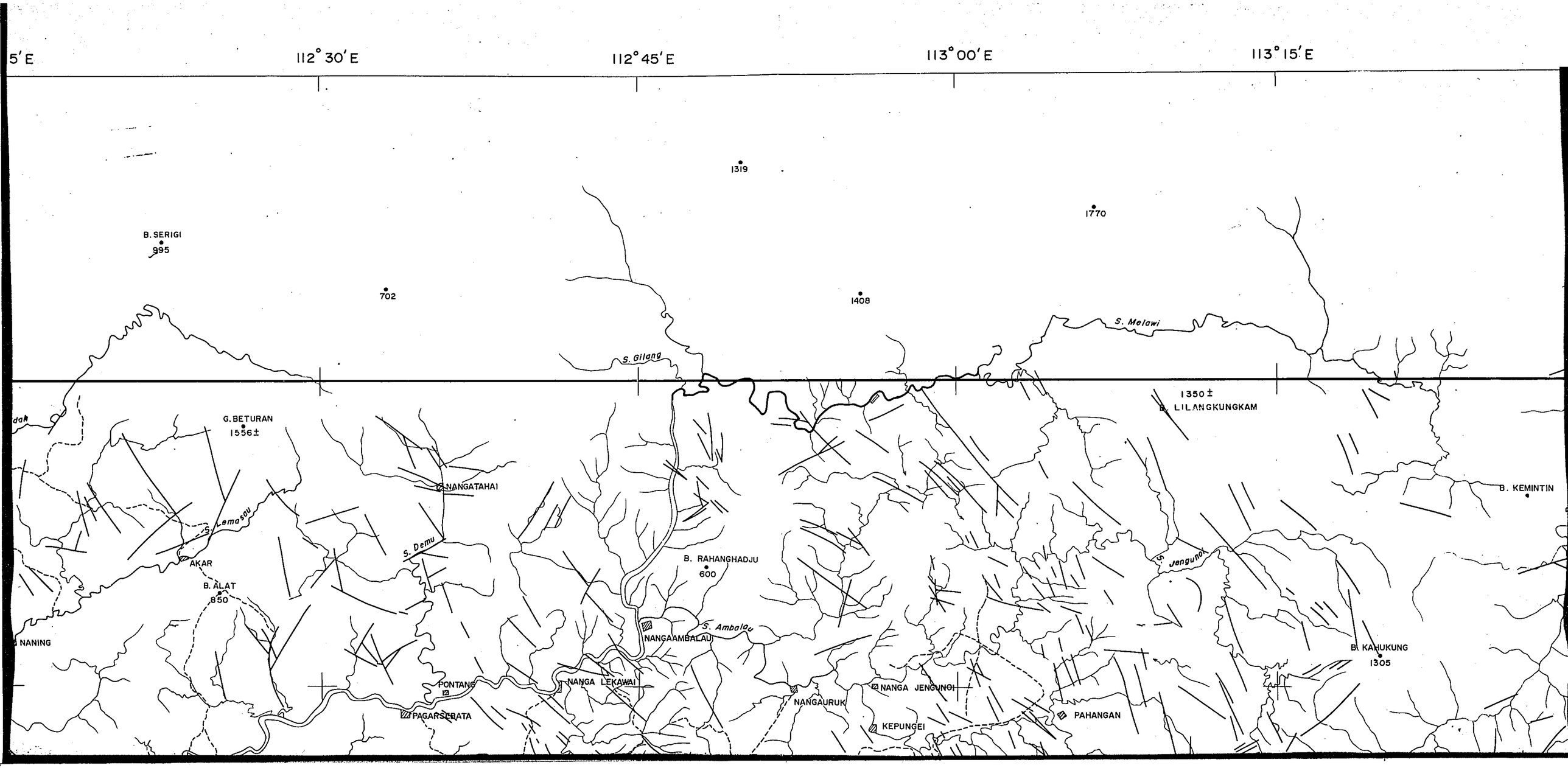
Scale 1: 250,000

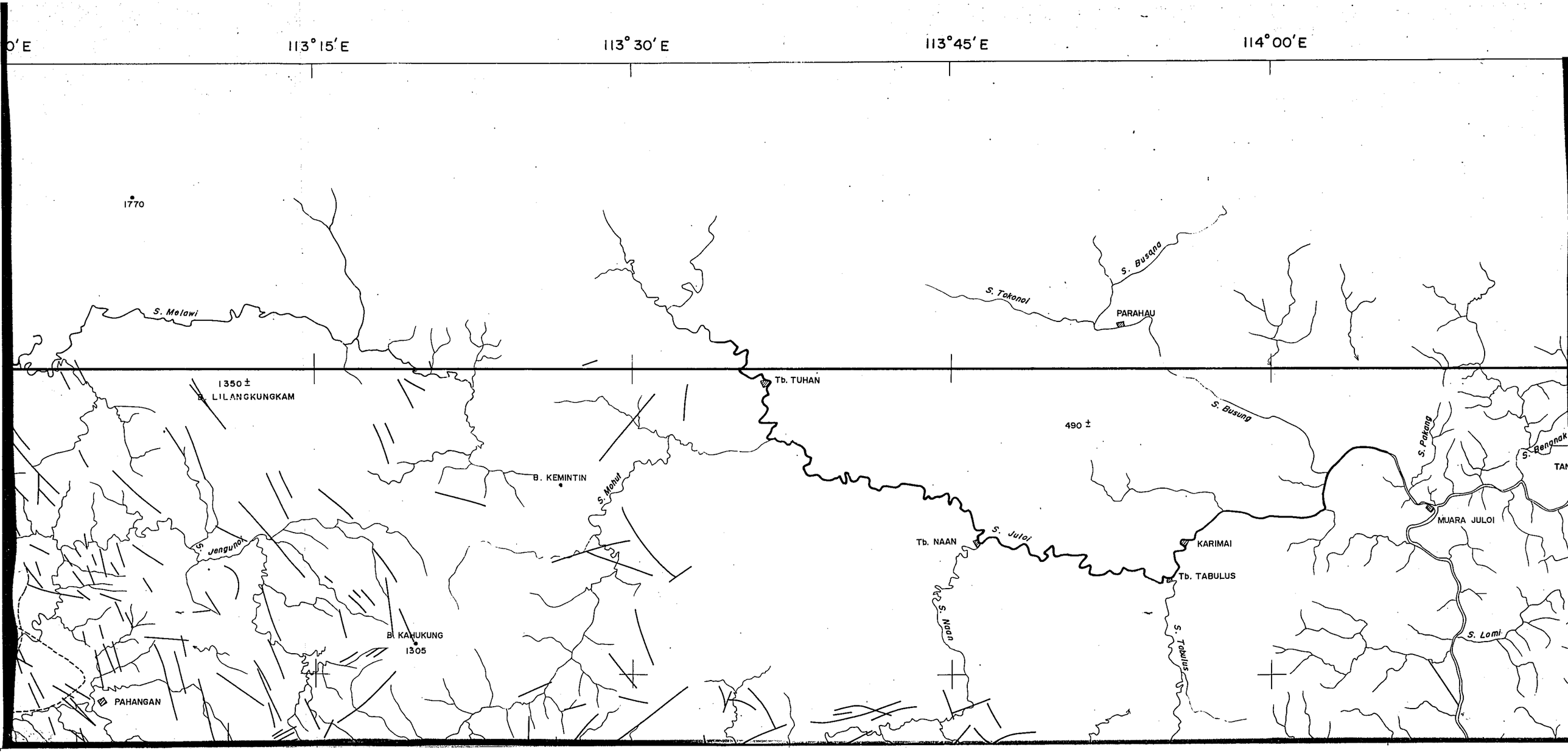
0 5 10 15 20 km

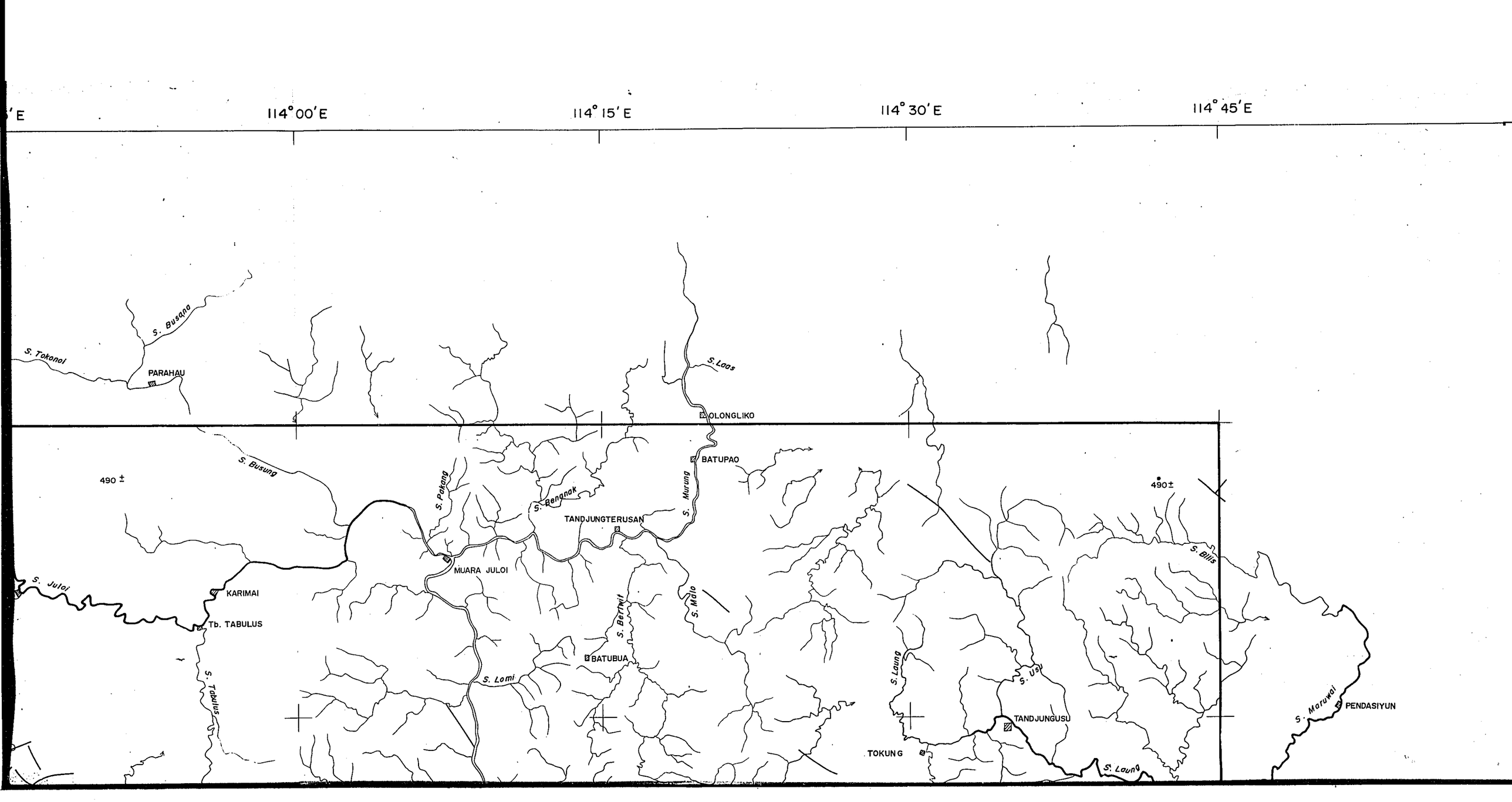


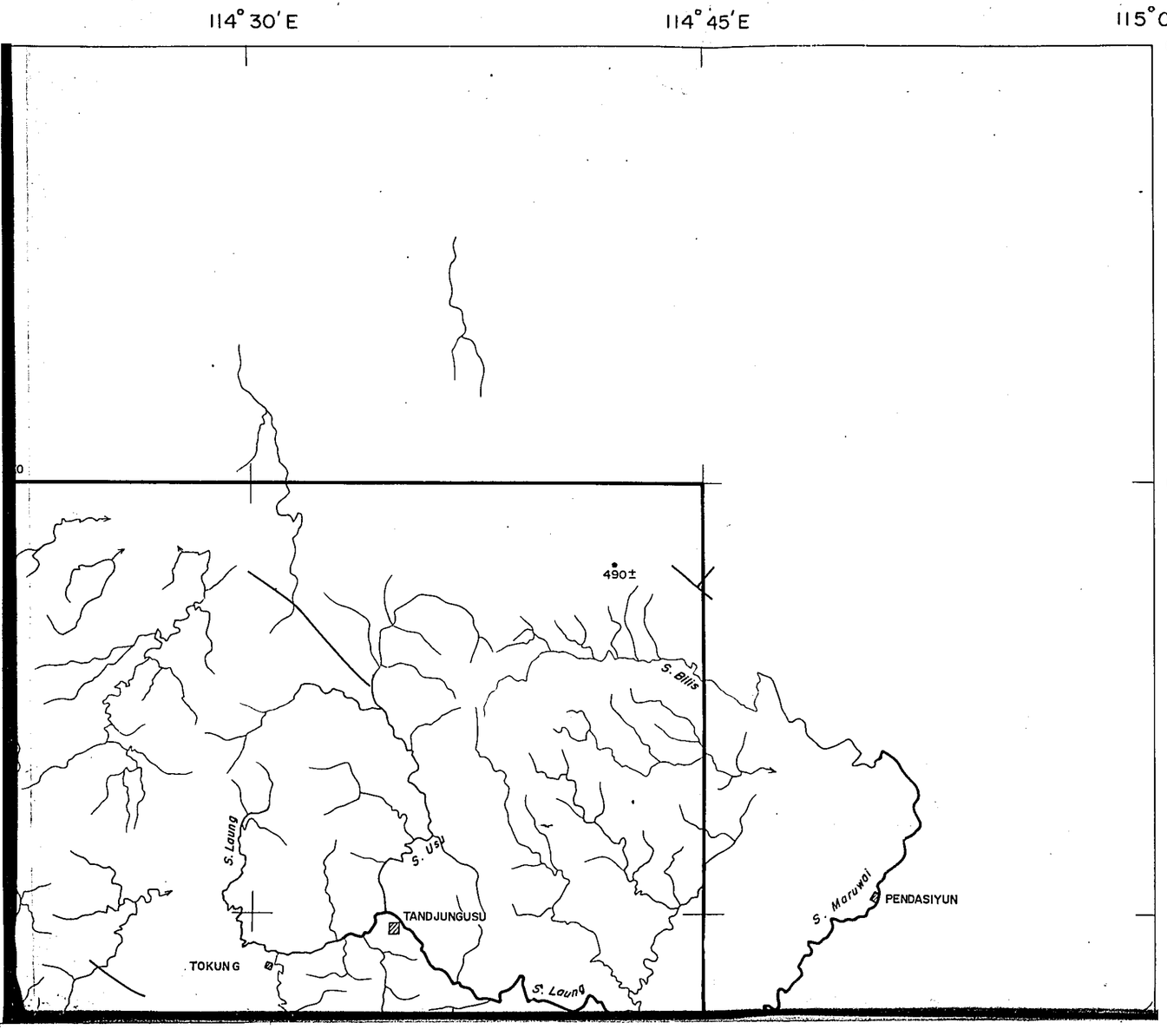
January · 1978


111° 30' E
111° 45' E
112° 00' E
112° 15' E
112° 30' E
0° 15' N
0° 00'
0° 15' S
NANGALEBANG
662
570
S. Silat
S. Kapuas
658
B. SERIGI
995
SINTANG
G. KEIAM
GBANG
1087
S. Melawi
G. BETURAN
1556±
S. Tebidah
MAWANG
S. Kayan
TROTON
SEMADAI
NANGATEBIDAH
S. Lemasau
AKAR
B. ALAT
850
SUNGAIPINANG
TEMADU
SAMBUK
NANING
S. Merahayer
S. Keruwab


5' E
112° 30' E
112° 45' E
113° 00' E
113° 15' E
1319
1770
B. SERIGI
995
702
1408
S. Melawi
S. Gilang
1350±
B. LILANGKUNGKAM
G. BETURAN
1556±
B. KEMINTIN
NANGATAHAI
S. Lemasau
S. Demu
AKAR
B. ALAT
850
B. RAHANGHADJU
600
S. Jengunoi
NANING
S. Ambalau
NANGAAMBALAU
B. KAHUKUNG
1305
PONTANG
NANGA LEKAWAI
NANGA JENGUNOI
NANGAURUK
PAGARSERATA
KEPUNGEI
PAHANGAN


0' E
113° 15' E
113° 30' E
113° 45' E
114° 00' E
1770
S. Melawi
1350 ±
B. LILANGKUNGKAM
B. KEMINTIN
S. Mohul
S. Jengunoi
B. KAHUKUNG
1305
PAHANGAN
Tb. TUHAN
S. Takonoi
S. Busang
PARAHAU
490 ±
S. Busung
S. Pakang
S. Bengak
TAN
MUARA JULOI
Tb. NAAN
S. Juloi
KARIMAI
Tb. TABULUS
S. Naan
S. Tabulus
S. Lomi


'E
114° 00' E
114° 15' E
114° 30' E
114° 45' E
S. Busang
S. Tokonoi
PARAHAU
S. Laas
OLONGLIKO
BATUPAO
S. Busung
490 ±
S. Pakang
S. Benganak
S. Murung
TANDJUNGTERUSAN
490±
S. Bliis
MUARA JULOI
S. Juloi
KARIMAI
Tb. TABULUS
S. Tabulus
S. Berhwit
S. Malo
BATUBUA
S. Lomi
S. Laung
S. Usi
TANDJUNGUSU
S. Maruwai
PENDASIYUN
TOKUNG
S. Laung



PL. 5

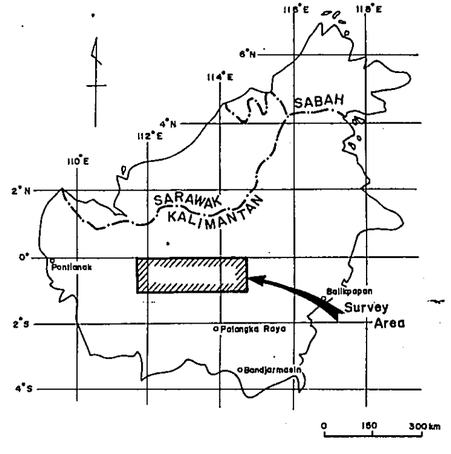
METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
—
GEOLOGICAL SURVEY OF INDONESIA

PHOTO - GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN, INDONESIA

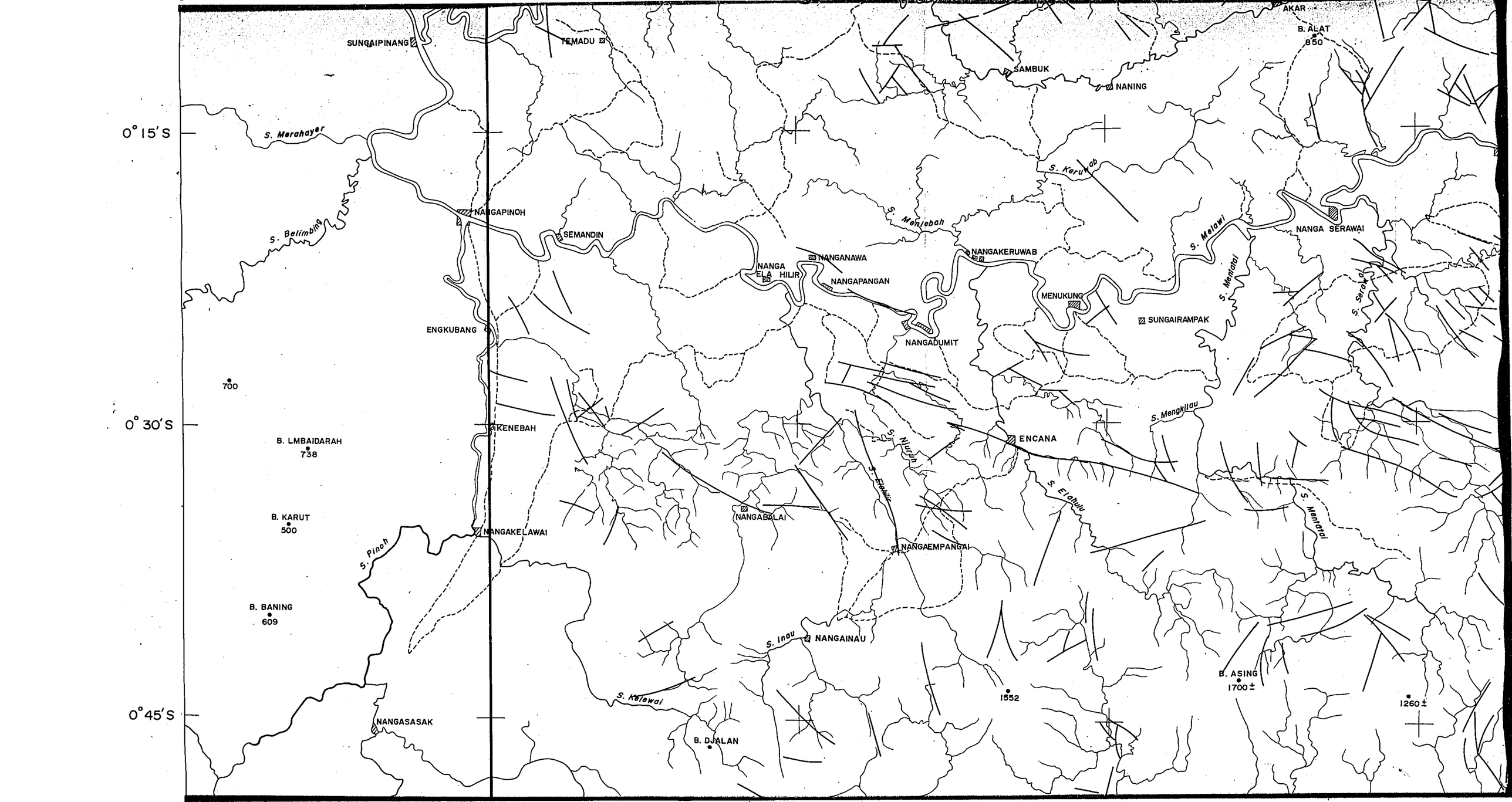
LINEAMENT MAP
PHOTO-GEOLOGY

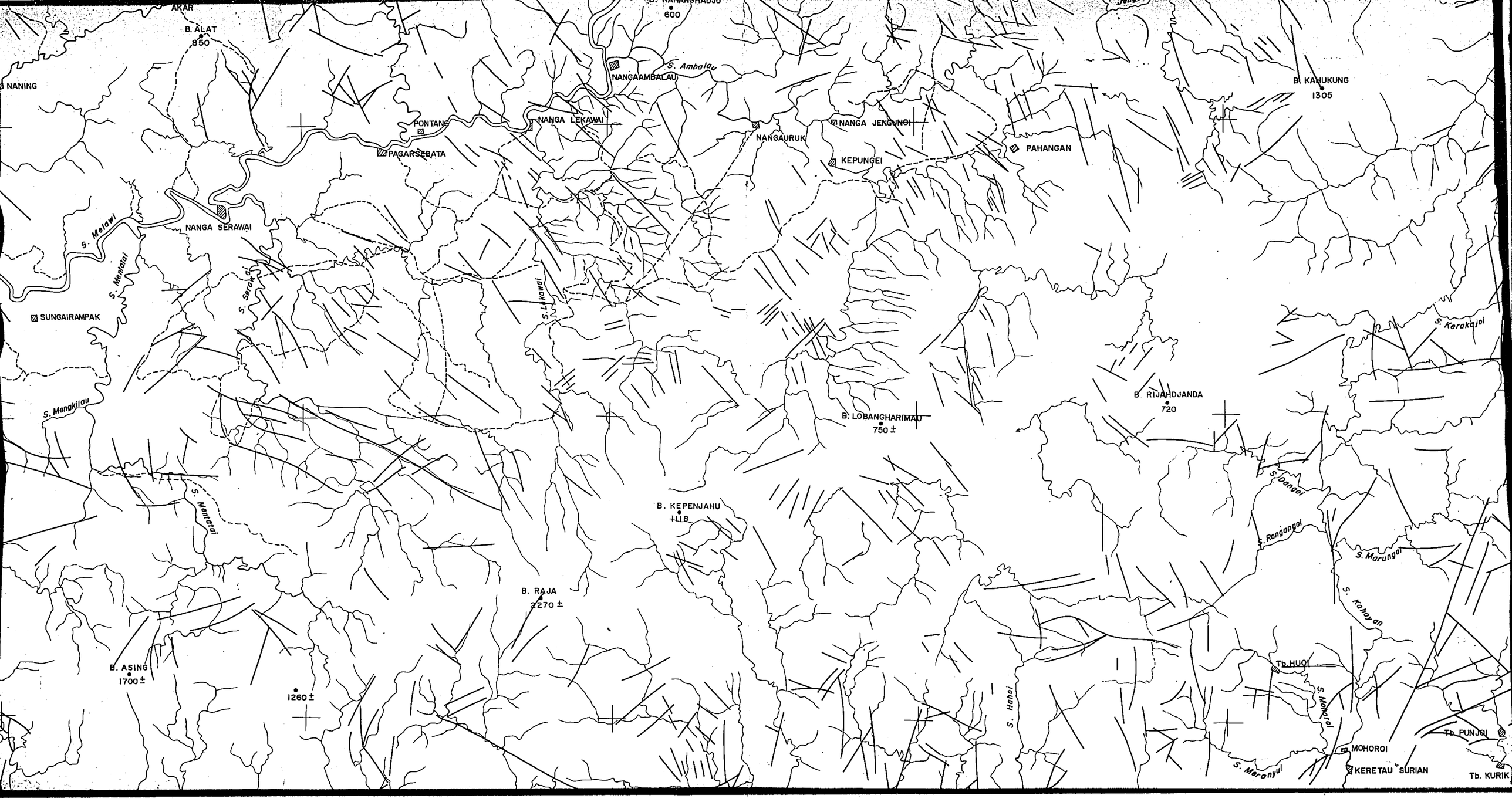
Scale 1: 250,000

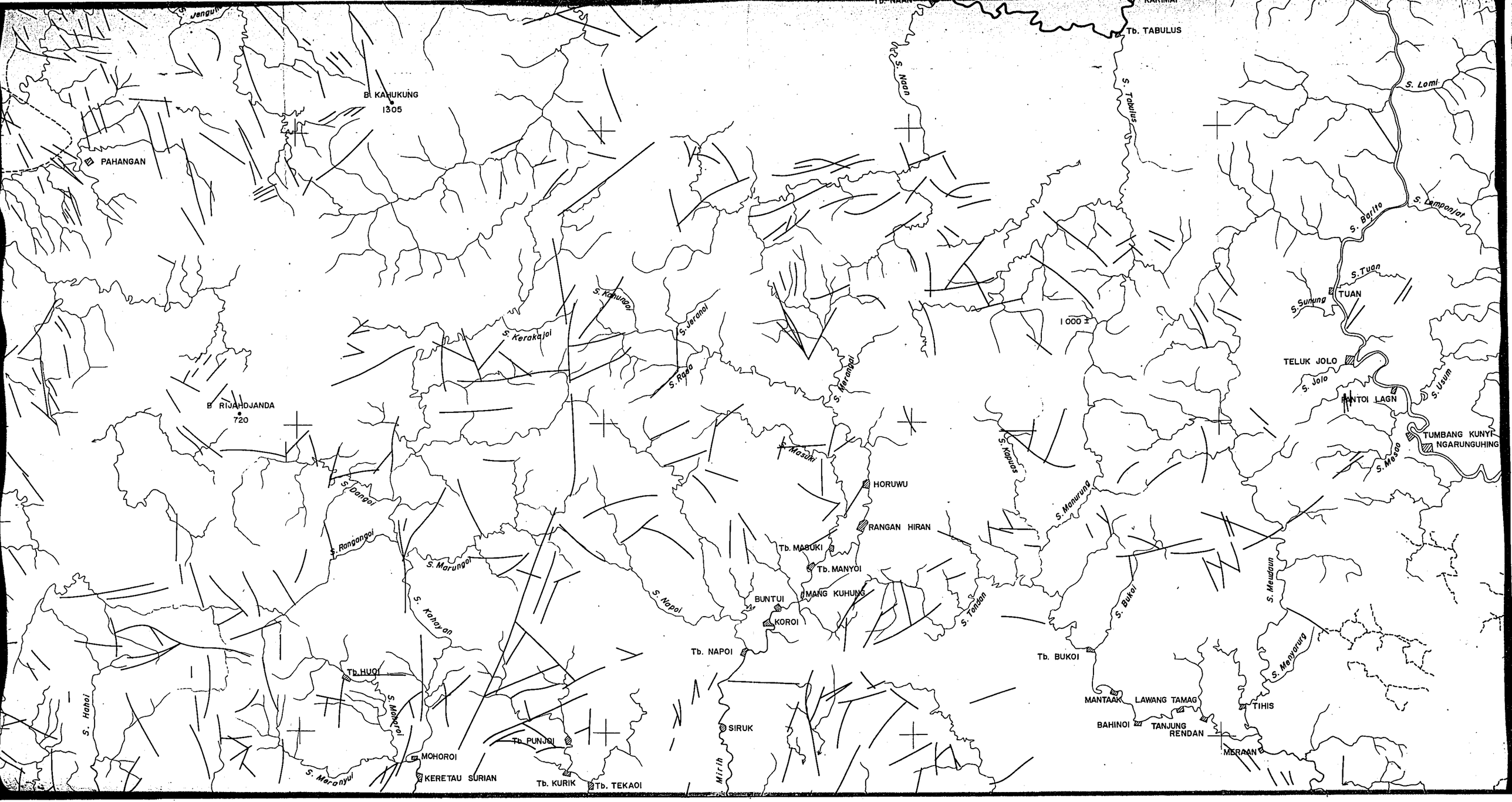
0 5 10 15 20 km

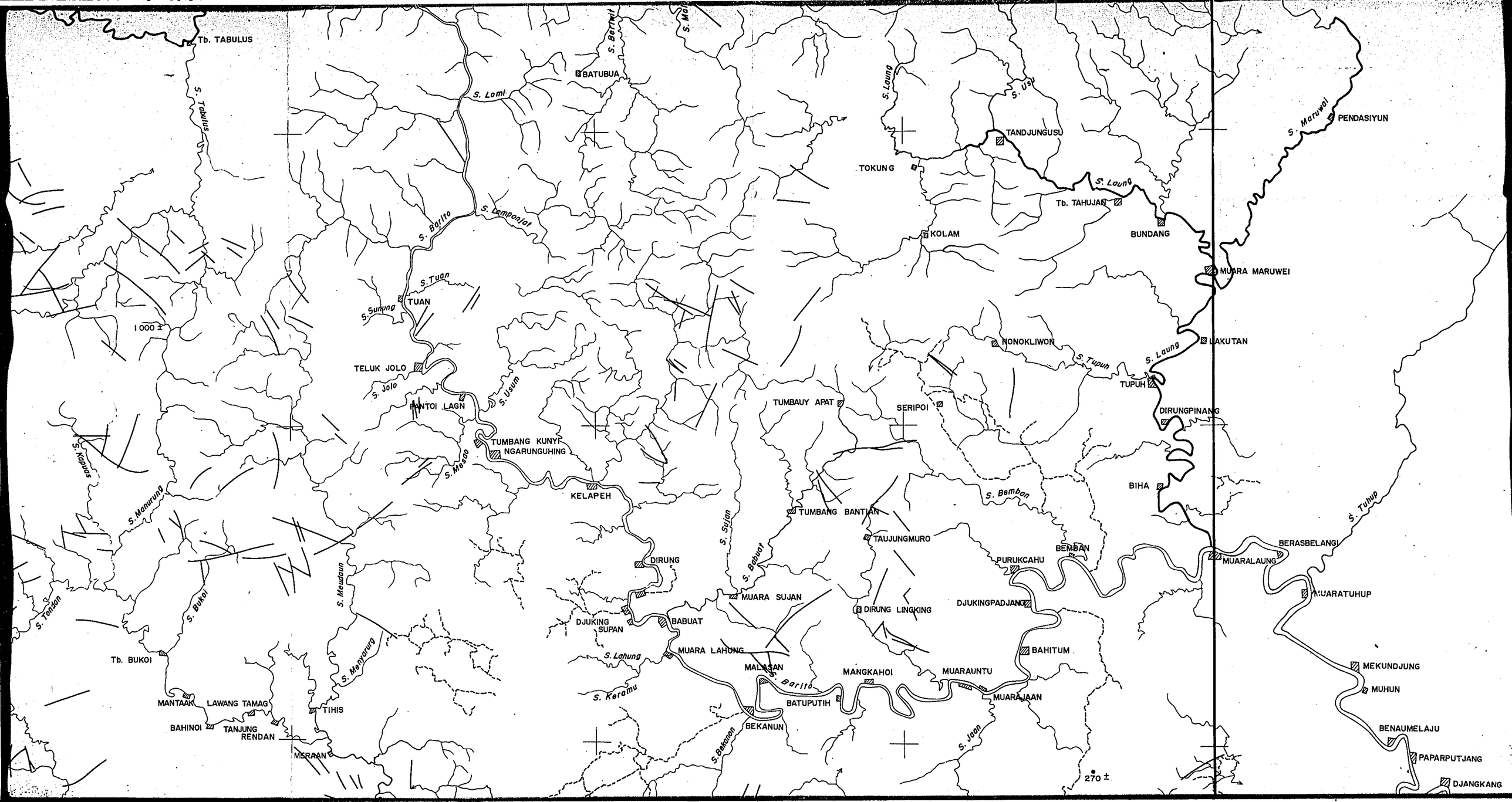


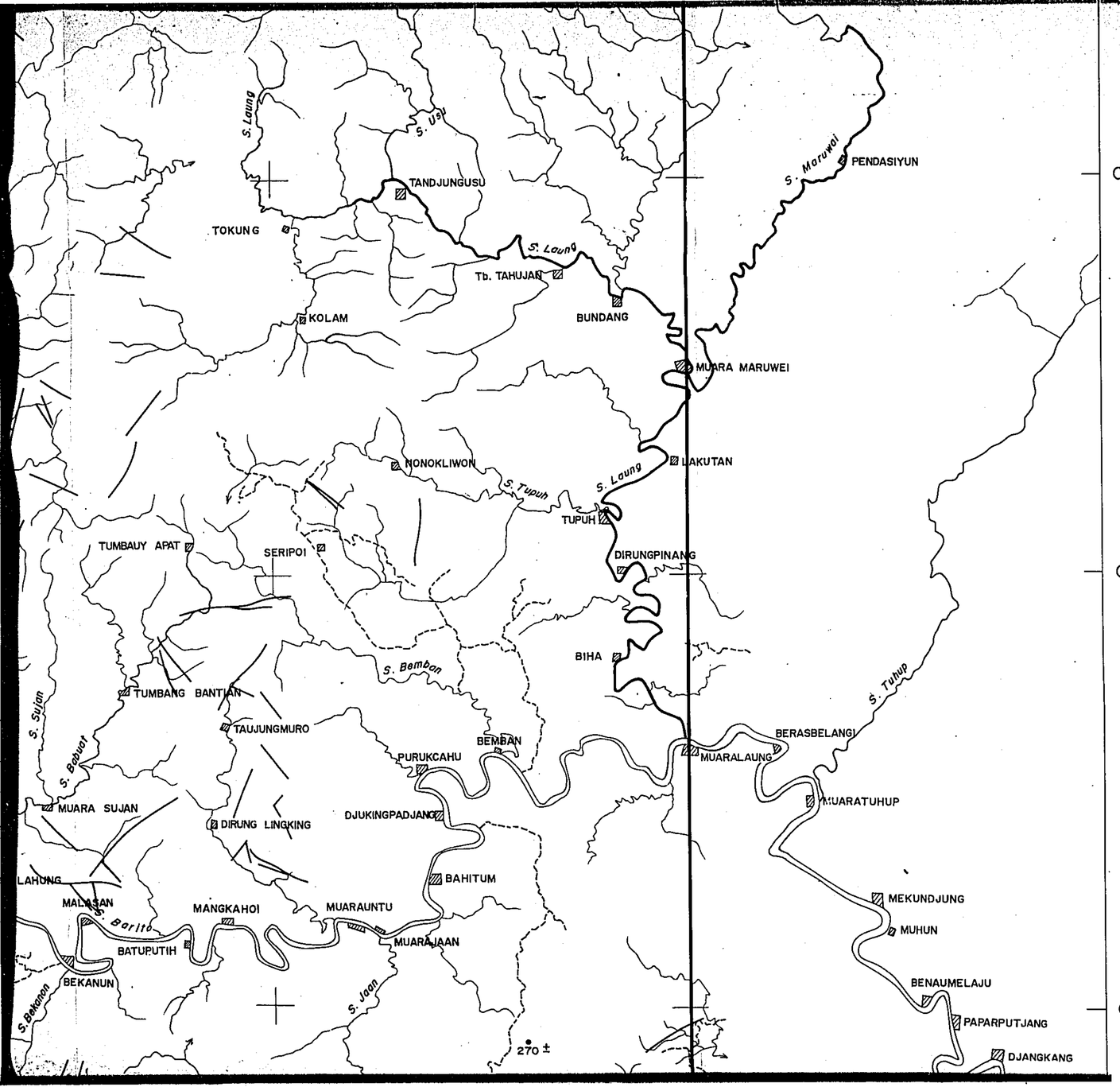
January · 1978

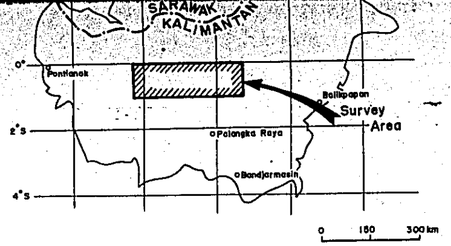

SUNGAIPINANG
TEMADU
AKAR
B. ALAT
850
SAMBUK
NANING
0°15'S
S. Merahayer
S. Belimbing
NANGAPINOH
SEMANDIN
S. Kerukab
S. Menjebah
S. Melawi
NANGA SERAWAI
NANGANAWA
NANGAKERUWAB
NANGA ELA HILIR
NANGAPANGAN
S. Mentatai
S. Sarok
MENUKUNG
SUNGAIRAMPAK
ENGKUBANG
NANGADUMIT
700
0°30'S
KENEBAH
S. Mengkilau
B. LMBAIDARAH
738
ENCANA
S. Niuruh
S. Elohulu
S. Mentatai
B. KARUT
500
NANGABALAI
NANGAKELAWAI
S. Pinoh
NANGAEMPANGAI
B. BANING
609
S. Inau
NANGAINAU
S. Kelawai
1552
B. ASING
1700±
1260±
0°45'S
NANGASASAK
B. DJALAN


AKAR
B. ALAT
850
NANING
B. NAHANGHADJU
600
S. Ambalau
NANGAAMBALAU
B. KAHUKUNG
1305
PONTANG
PAGARSEBATA
NANGA LEKAWAI
NANGAURUK
NANGA JENGINOI
KEPUNGEI
PAHANGAN
S. Melawi
NANGA SERAWAI
S. Mentatai
S. Serokai
S. Lekawai
SUNGAIRAMPAK
S. Kerakajol
S. Mengkilau
B. RIJAHDJANDA
720
B. LOBANGHARIMAU
750 ±
S. Mentaraj
B. KEPENJAHU
1118
S. Dangai
S. Rangangai
S. Marungai
B. RAJA
2270 ±
S. Kanayan
B. ASING
1700 ±
1260 ±
Tb. HUOI
S. Hahoi
S. Mohoroi
Tb. PUNJOI
MOHOROI
KERETAU SURIAN
S. Meranyul
Tb. KURIK


S. Jengui
B. KAHUKUNG
1305
PAHANGAN
Tb. TABULUS
S. Nuan
S. Tabulus
S. Lomi
S. Barito
S. Lamponjat
S. Tuan
TUAN
S. Sunung
1 000 ±
S. Kerakajoi
S. Kapuraoi
S. Jeranoi
S. Rada
S. Merangai
TELUK JOLO
S. Jolo
S. Usum
PANTOI LAGN
TUMBANG KUNYI
NGARUNGUHING
S. Mesjo
B. RIJAHDJANDA
720
S. Masuki
S. Kapuas
HORUWU
S. Manurung
S. Dangoi
S. Rangangoi
RANGAN HIRAN
Tb. MASUKI
Tb. MANYOI
S. Marungoi
S. Napoi
BUNTUI
MANG KUHUNG
S. Kanayan
KOROI
S. Tondan
S. Bukoi
S. Meudaun
Tb. NAPOI
Tb. BUKOI
Tb. HUOI
S. Hahoi
S. Mohoroi
S. Meranyui
MOHOROI
KERETAU SURIAN
Tb. PUNJOI
Tb. KURIK
Tb. TEKAOI
SIRUK
Mirih
MANTAAK
LAWANG TAMAG
TIHIS
BAHINOI
TANJUNG RENDAN
MERAAN
S. Meyarung


Tb. TABULUS
S. Tabulus
S. Lomi
BATUBUA
S. Barito
S. Lampanjat
S. Tuan
S. Sunung
TUAN
1 000 ±
TELUK JOLO
S. Jolo
S. Usum
PANTOI LAGN
TUMBANG KUNYI
NGARUNGUHING
S. Masao
KELAPEH
S. Kapuas
S. Manurung
S. Tondan
S. Bukoi
Tb. BUKOI
MANTAAK
LAWANG TAMAG
BAHINOI
TANJUNG
RENDAN
TIHIS
MERAAN
S. Meudaun
S. Menyarung
S. Lahung
S. Keramu
S. Bakonan
BEKANUN
DIRUNG
DJUKING
SUPAN
BABUAT
MUARA LAHUNG
MALASAN
BATUPUTIH
S. Sujan
S. Babuat
MUARA SUJAN
S. Barito
MANGKAHOI
MUARAUNTU
MUARAJAAN
S. Jaan
270 ±
S. Laung
S. Usi
TANDJUNGUSU
TOKUNG
KOLAM
Tb. TAHUJAN
BUNDANG
S. Laung
S. Maruwai
PENDASIYUN
MUARA MARUWEI
NONOKLIWON
S. Tupuh
LAKUTAN
TUPUH
S. Laung
DIRUNGPINANG
TUMBAUY APAT
SERIPOI
BIHA
S. Bemban
TUMBANG BANTIAN
TAUJUNGMURO
BEMBAN
PURUKCAHU
DJUKINGPADJANG
DIRUNG LINGKING
BAHITUM
BERASBELANGI
MUARALAUNG
S. Tuhup
MUARATUHUP
MEKUNDJUNG
MUHUN
BENAUMELAJU
PAPARPUTJANG
DJANGKANG

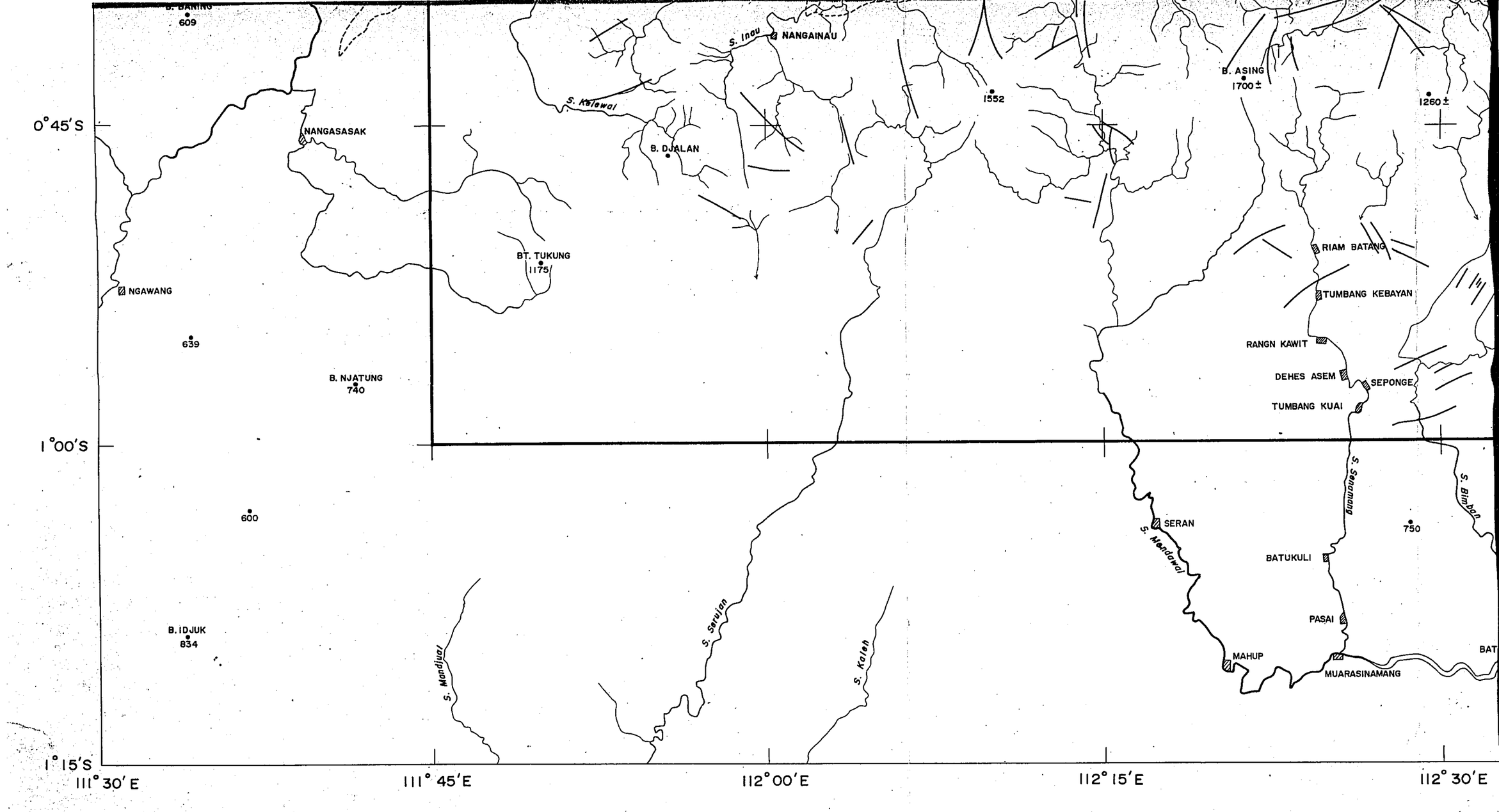


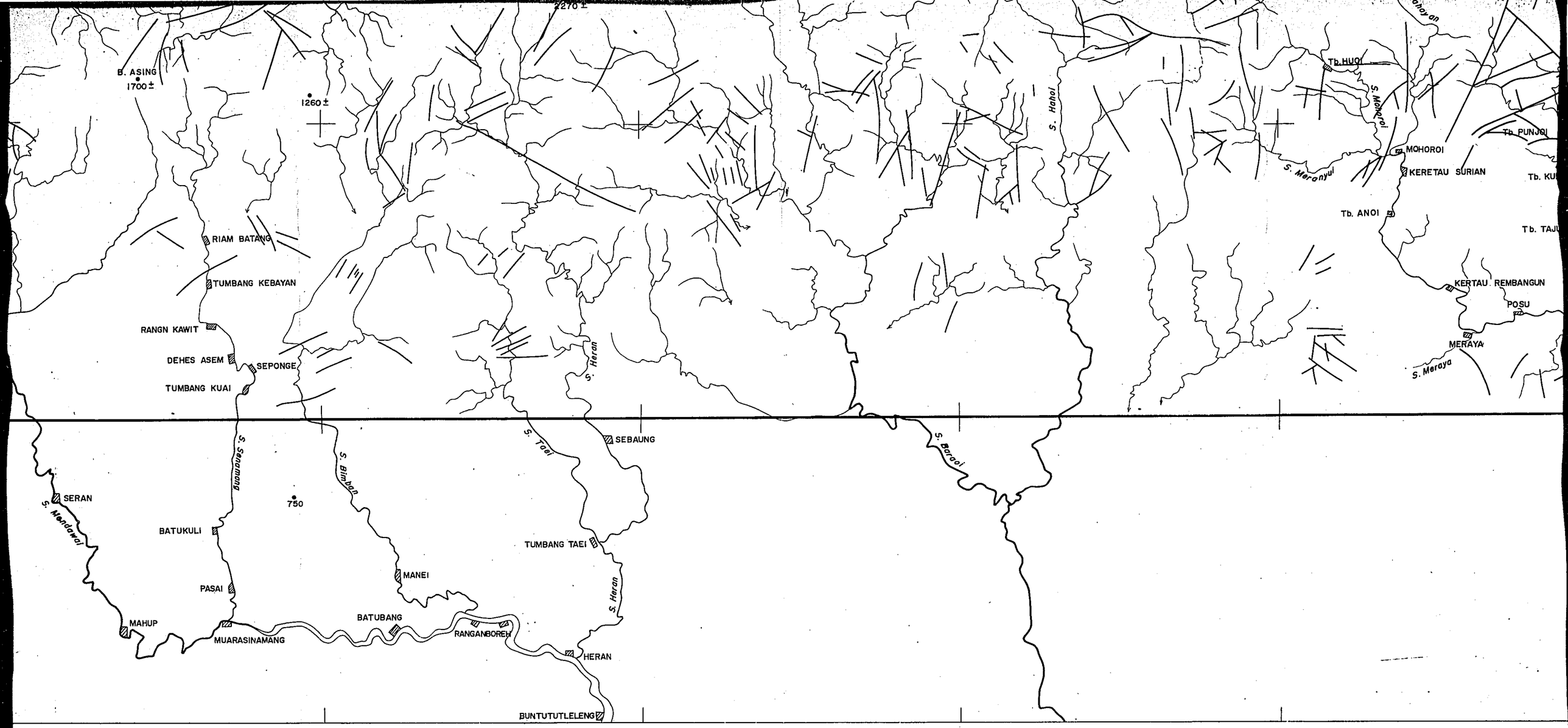


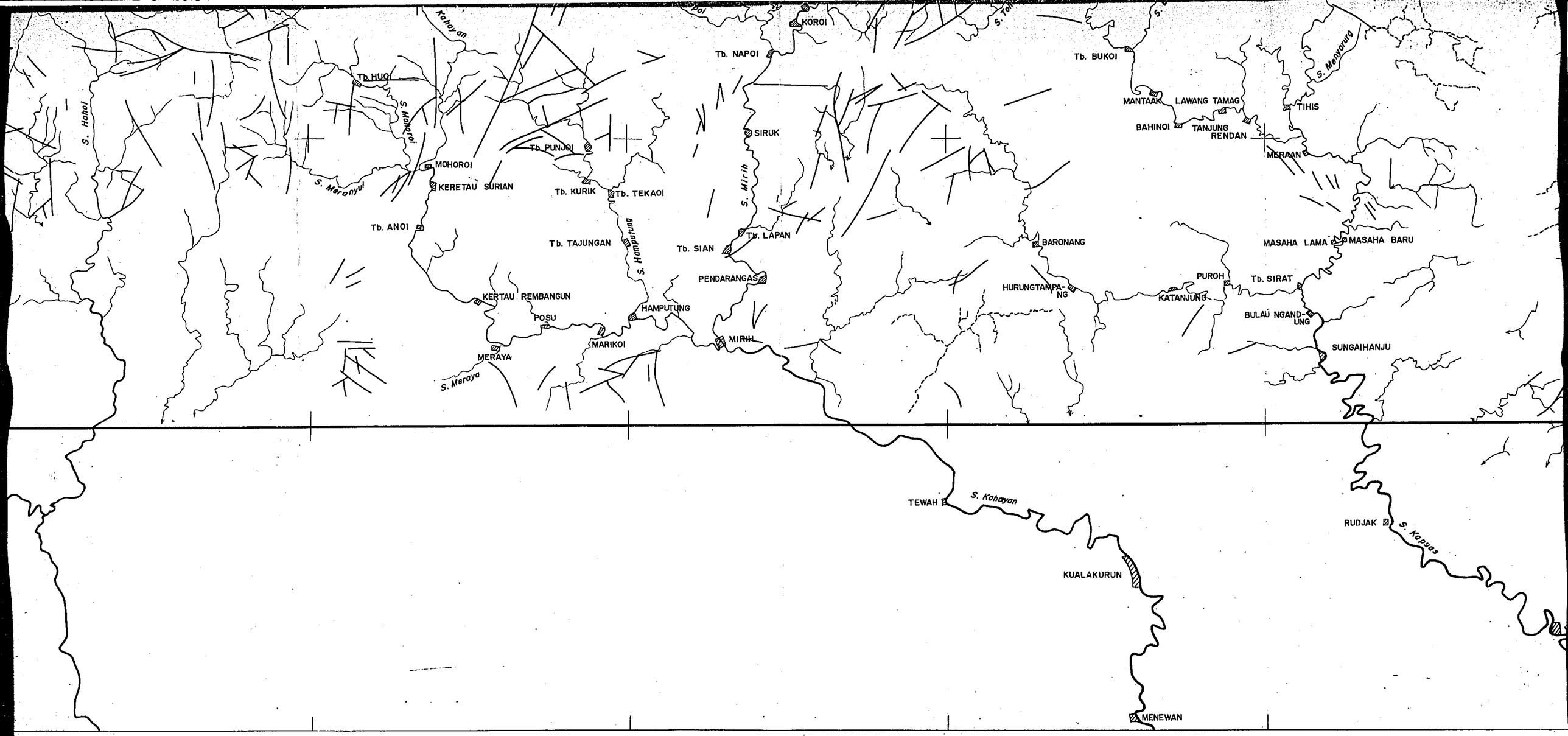
January · 1978

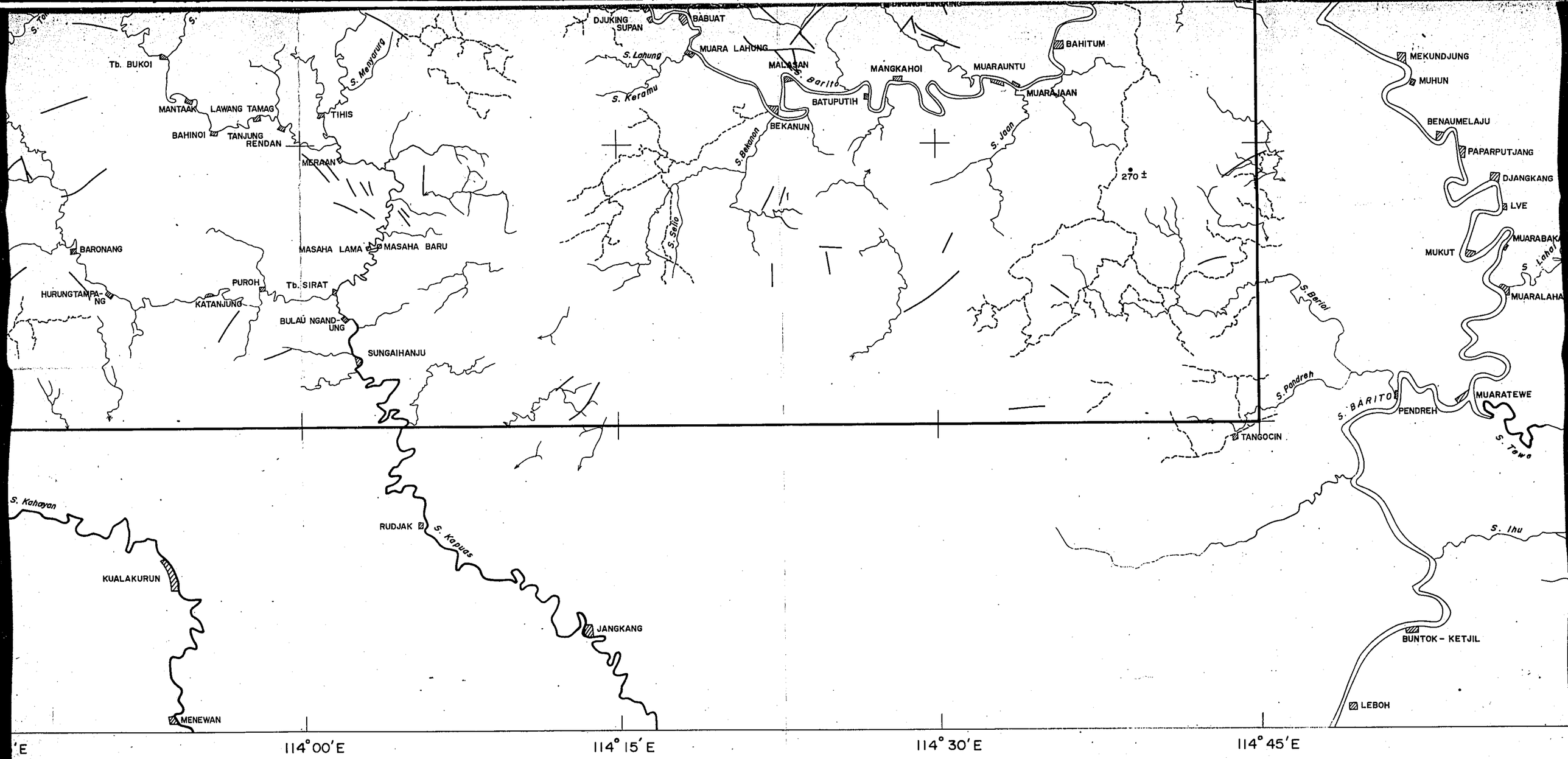
Legend

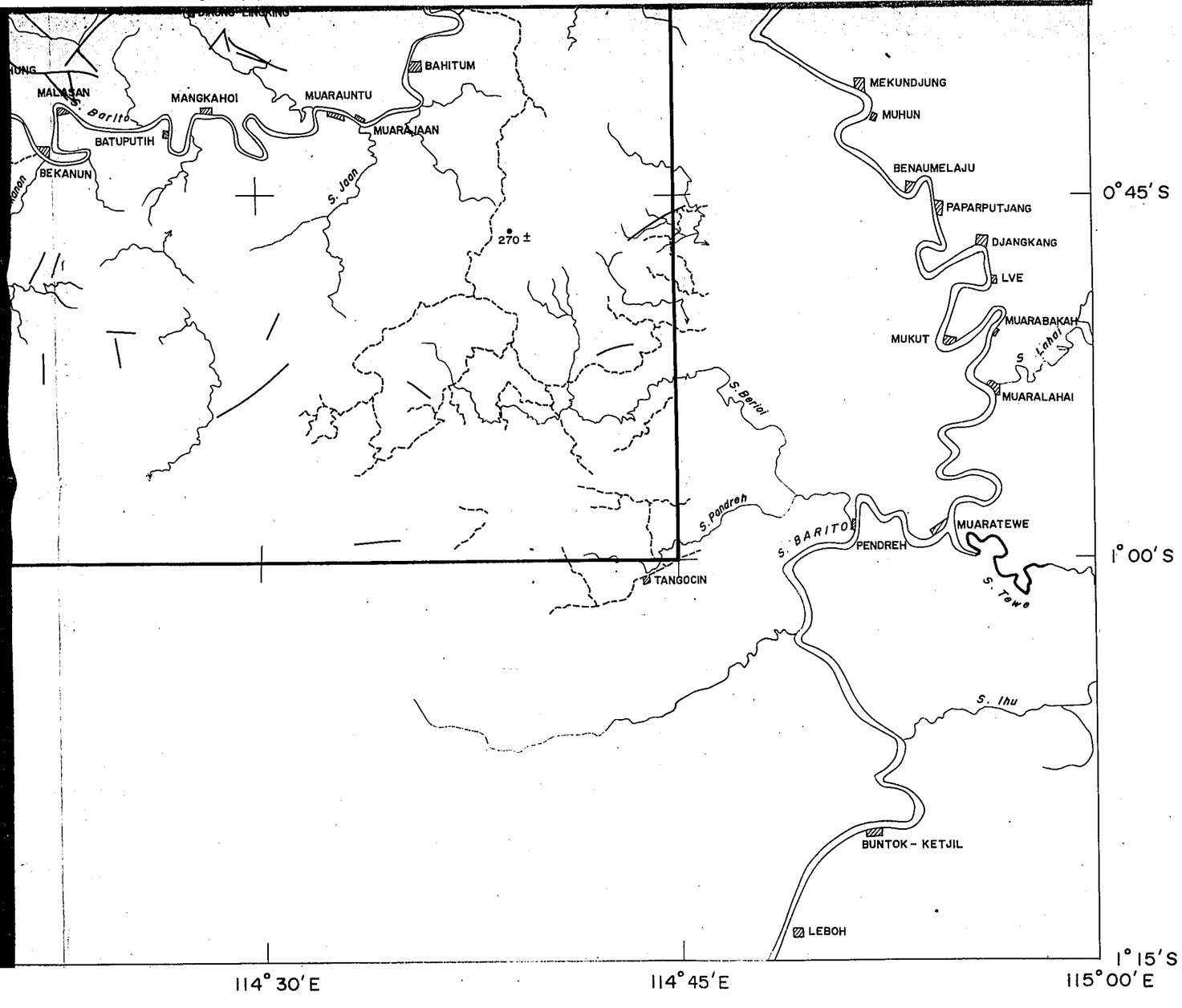
Lineament


B. BANING
609
S. Inau
NANGAINAU
S. Kelawai
1552
B. ASING
1700 ±
1260 ±
0°45'S
NANGASASAK
B. DJALAN
BT. TUKUNG
1175
RIAM BATANG
TUMBANG KEBAYAN
NGAWANG
639
RANGN KAWIT
B. NJATUNG
740
DEHES ASEM
SEPONGE
TUMBANG KUAI
1°00'S
600
S. Sebangau
S. Bimban
SERAN
S. Mandawai
750
BATUKULI
B. IDJUK
834
PASAI
S. Mandjual
S. Sarujan
S. Kaleh
MAHUP
MUARASINAMANG
1°15'S
111°30' E
111° 45'E
112°00'E
112°15'E
112°30'E


2270±
B. ASING
1700±
1260±
S. Hahoi
Tb. HUOI
S. Mohoroi
Tb. PUNJOI
MOHOROI
S. Meranyui
KERETAU SURIAN
Tb. KU
Tb. ANOI
Tb. TAJU
RIAM BATANG
TUMBANG KEBAYAN
KERTAU REMBANGUN
POSU
RANGN KAWIT
DEHES ASEM
SEPONGE
TUMBANG KUAI
S. Heran
MERAYA
S. Meraya
SEBAUNG
S. Taei
S. Barayi
S. Sandong
S. Bimban
SERAN
S. Nandawai
750
BATUKULI
TUMBANG TAEI
MANEI
PASAI
S. Heran
BATUBANG
MAHUP
RANGANBOREH
MUARASINAMANG
HERAN
BUNTUTUTLELENG
15'E
112° 30'E
112° 45'E
113° 00'E
113° 15'E


KOROI
Tb. NAPOI
Tb. BUKOI
S. Menyarung
MANTAAK
LAWANG TAMAG
TIHIS
BAHINOI
TANJUNG RENDAN
MERAAN
Tb. HUOI
S. Kahayan
S. Hahoi
S. Mohoroi
MOHOROI
KERETAU SURIAN
S. Meranyui
Tb. PUNJOI
Tb. KURIK
Tb. TEKAOI
SIRUK
S. Mirih
Tb. ANOI
Tb. TAJUNGAN
S. Hamputung
Tb. LAPAN
Tb. SIAN
BARONANG
MASAHA LAMA
MASAHA BARU
PENDARANGAS
HURUNGTAMPA-NG
PUROH
Tb. SIRAT
KERTAU REMBANGUN
POSU
HAMPUTUNG
KATANJUNG
BULAU NGAND-UNG
MARIKOI
MIRIH
SUNGAIHANJU
MERAYA
S. Meraya
TEWAH
S. Kahayan
RUDJAK
S. Kapuas
KUALAKURUN
MENEWAN
113°15'E
113°30'E
113°45'E
114°00'E


Tb. BUKOI
MANTAAK
LAWANG TAMAG
BAHINOI
TANJUNG RENDAN
TIHIS
S. Menyarung
MERAAN
BARONANG
HURUNGTAMPANG
PUROH
KATANJUNG
Tb. SIRAT
MASAHA LAMA
MASAHA BARU
BULAU NGANDUNG
SUNGAIHANJU
DJUKING SUPAN
BABUAT
S. Lahung
MUARA LAHUNG
S. Keramu
MALASAN
S. Barito
MANGKAHOI
MUARAUNTU
BAHITUM
BATUPUTIH
MUARAJAAN
BEKANUN
S. Bekamon
S. Jaan
S. Saito
270 ±
MEKUNDJUNG
MUHUN
BENAUMELAJU
PAPARPUTJANG
DJANGKANG
LVE
MUARABAK
MUKUT
S. Lahai
MUARALAHA
S. Barjol
S. Pandreh
S. BARITO
PENDREH
MUARATEWE
S. Tewe
TANGOCIN
S. Kahayan
RUDJAK
S. Kapuas
S. Ihu
KUALAKURUN
JANGKANG
BUNTOK - KETJIL
MENEWAN
LEBOH
'E
114°00'E
114°15'E
114°30'E
114°45'E


BAHITUM
MANGKAHOI
MUARAUNTU
MUARAJAAN
BATUPUTIH
BEKANUN
S. Barito
S. Joan
270 ±
MEKUNDJUNG
MUHUN
BENAUMELAJU
PAPARPUTJANG
DJANGKANG
LVE
MUKUT
MUARABAKAH
S. Lahei
MUARALAHAI
S. Beriei
S. Pandreh
S. BARITO
PENDREH
MUARATEWE
S. Tewe
TANGOCIN
S. Ihu
BUNTOK - KETJIL
LEBOH
0°45'S
1°00'S
1°15'S
114°30'E
114°45'E
115°00'E

PL.6

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

GEOLOGICAL SURVEY OF INDONESIA

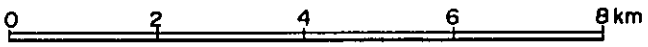
DIRECTORATE GENERAL OF MINES

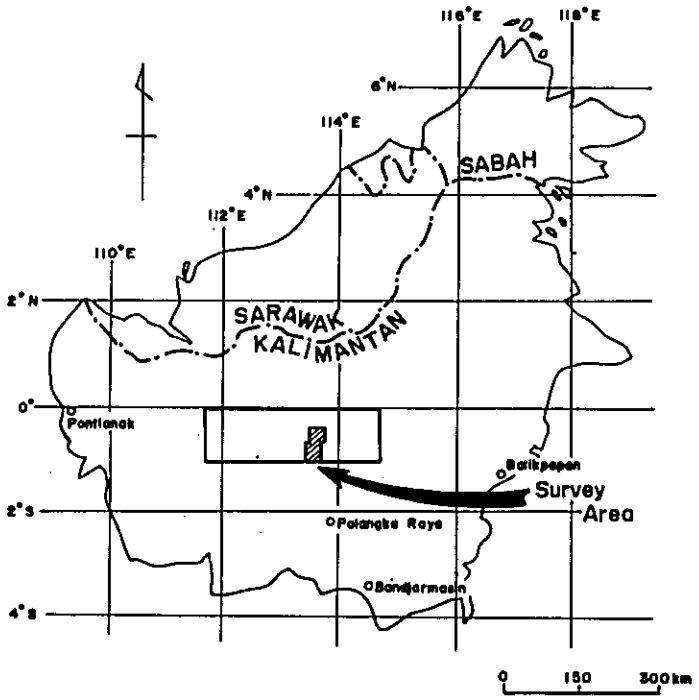
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

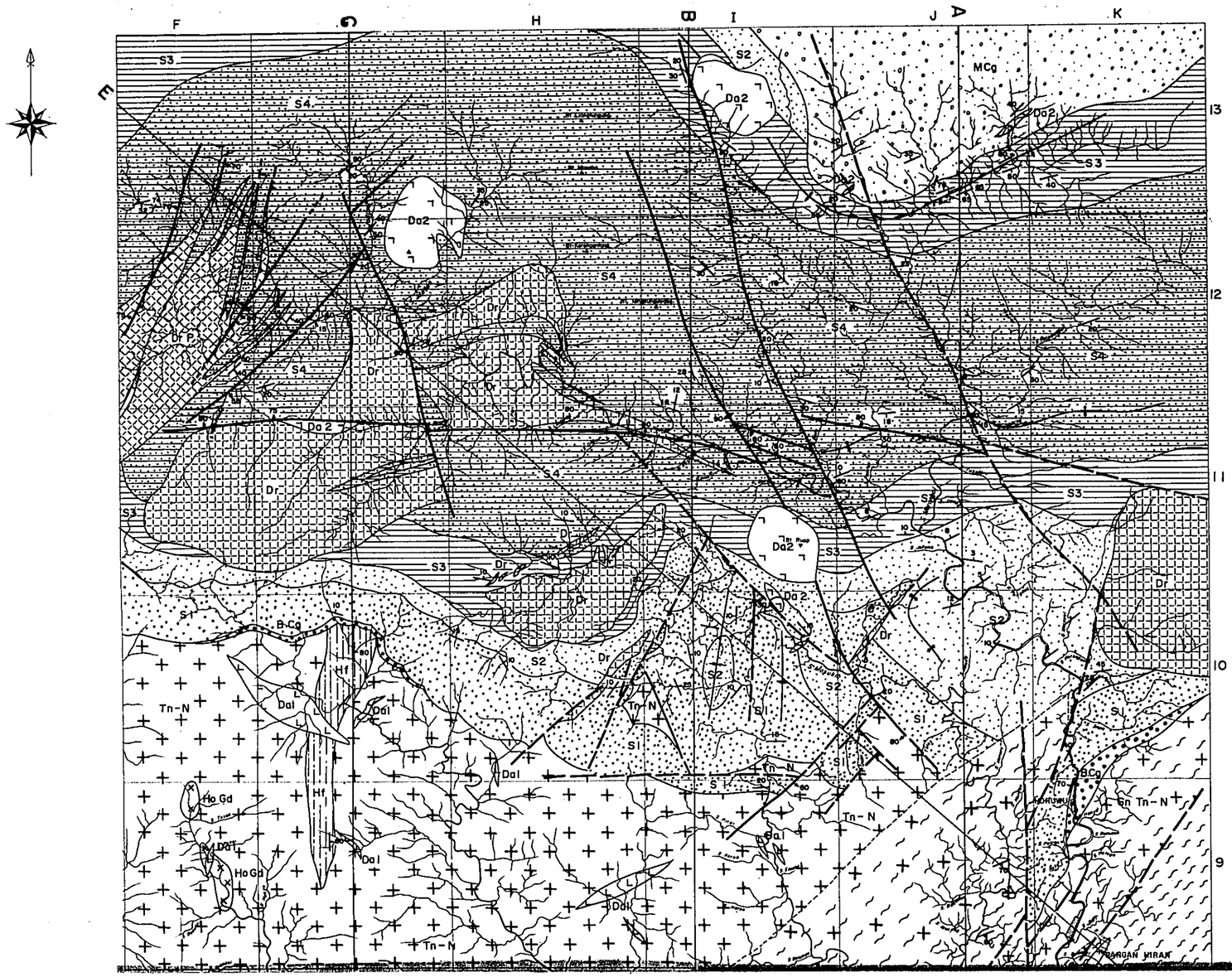
GEOLOGICAL MAP

Scale 1: 100,000





February · 1979



METAL MINING AGENCY OF JAPAN

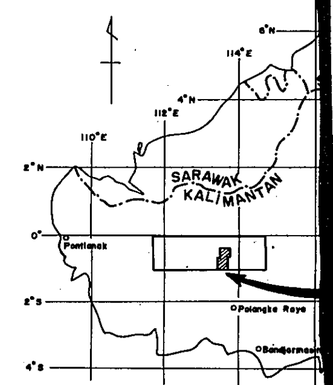
JAPAN INTERNATIONAL COOPERATION AGENCY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN

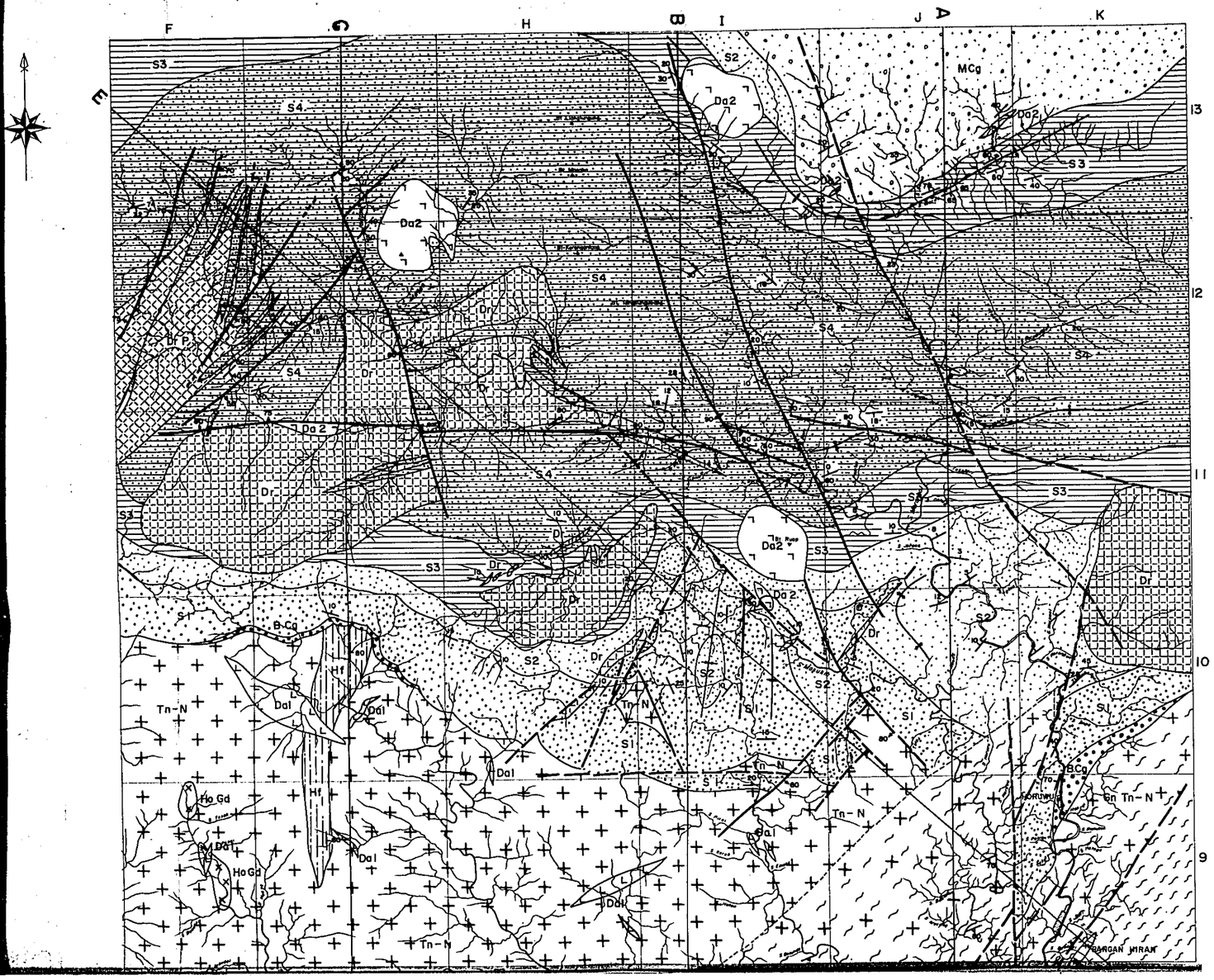
GEOLOGICAL

Scale 1: 100,000

0 2 4



February · 1979



PL.6

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

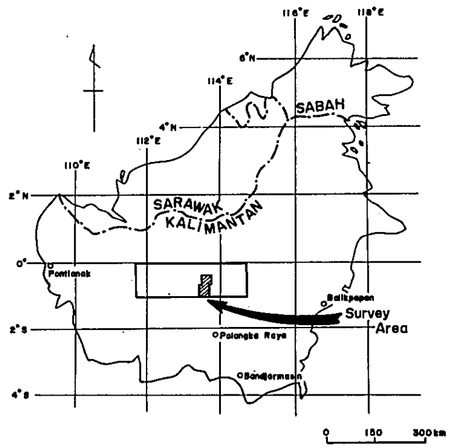
GEOLOGICAL SURVEY OF INDONESIA
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

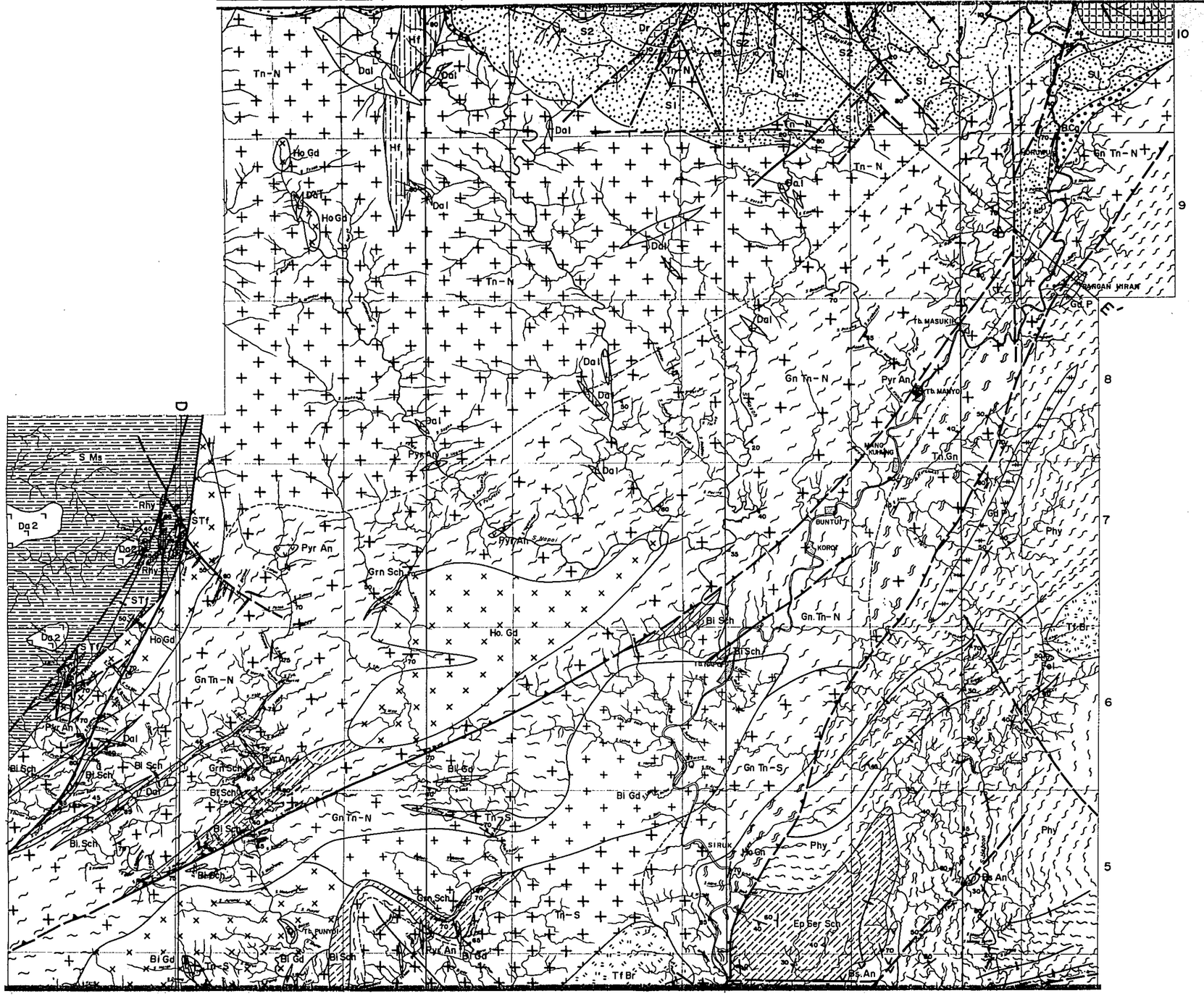
GEOLOGICAL MAP

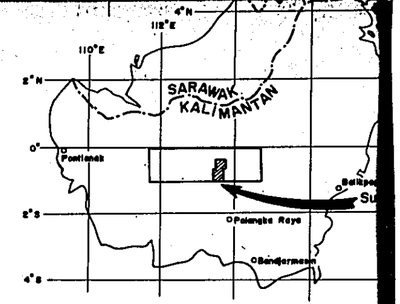
Scale 1: 100,000

0 2 4 6 8km



February · 1979





February · 1979

L E G E N D

QUATERNARY — Q — Gravel , Sand , Silt

Hamputung Sandstone-Siltstone A

H Ss — Sandstone , Siltstone

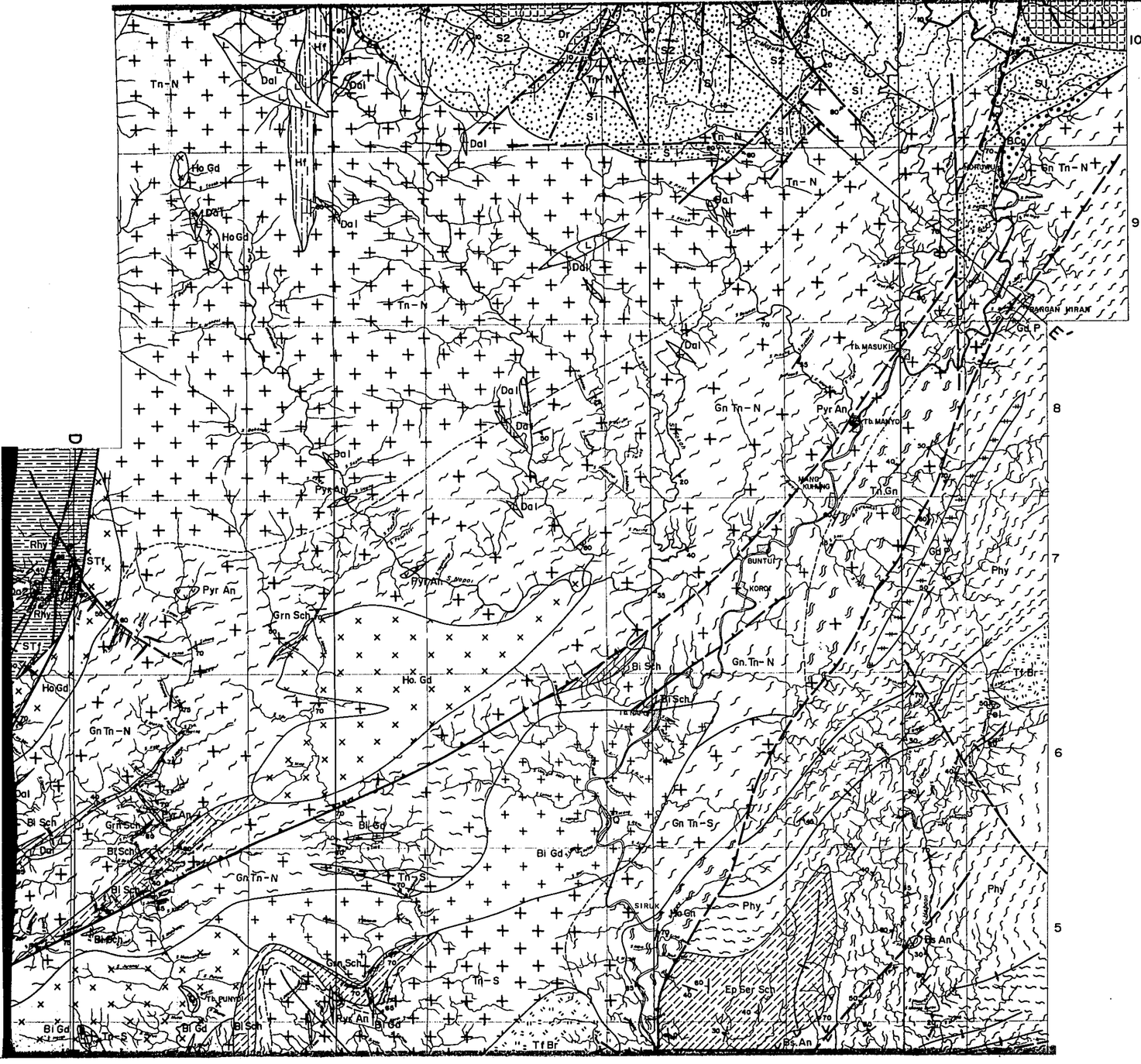
TERTIARY — Neogene — Palaegene

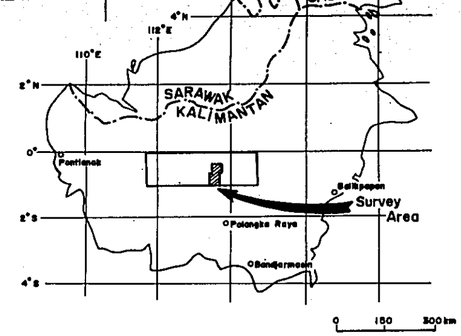
Sian Andesite Formation

- Bs / Bs An — Basalt, Basaltic andesite
- Pr An — Propylitic andesite
- Slt — Siltstone , Mudstone
- Tf / Tf Br — Tuff , Tuff breccia
- Vl Cg — Volcanic conglomerate

Sonang Mudstone-Shale Member

- S Ms — Mudstone , Shale
- S Tf — Fine tuff





February · 1979

L E G E N D

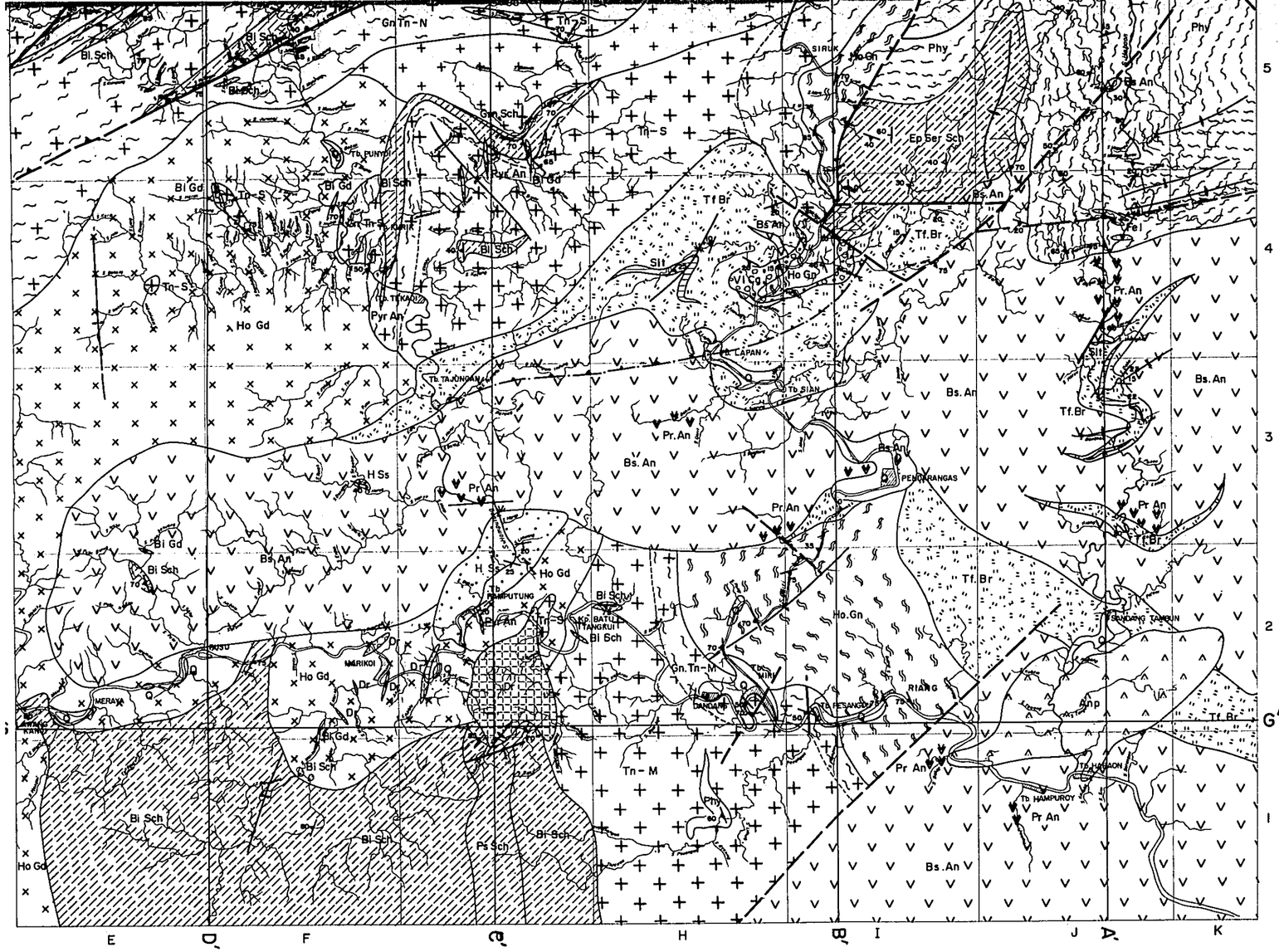
QUATERNARY — Q — Gravel , Sand , Silt

Hamputung Sandstone-Siltstone Alternation Member

H Ss — Sandstone , Siltstone

TERTIARY — Neogene — Palaegene

Sian Andesite Formation	Sonang Mudstone-Shale Member	Merangai Conglomerate Member
Bs, Bs An — Basalt, Basaltic andesite	S Ms — Mudstone , Shale	M Cg — Conglomerate
Pr An — Propylitic andesite	S Tf — Fine tuff	
Slt — Siltstone , Mudstone		
Tf, Tf Br — Tuff , Tuff breccia		
Vl Cg — Volcanic conglomerate		



Palaeogene

Siltstone , Mudstone

Tf
Tf Br
Tuff , Tuff breccia

Vl Cg
Volcanic conglomerate

CRETACEOUS

S4 Alternation of fine sandstone

S3 Shale

S2 Alternation of sandstone and

C.Ss Coarse sandstone

Sl

B.Cg Basal conglomerate

CARBONIFEROUS ~ JULASSIC

Metamorphic rocks

Hf Biotite hornfels (Peja

Phy Phyllite (Hab

Sch Bi Biotite (Schist) , Grn Green (") , Ep- Epidote- ("

HoGn Biotite - hornbrende Gneiss

Igneous rocks

Pyr An Pyroxem andesite

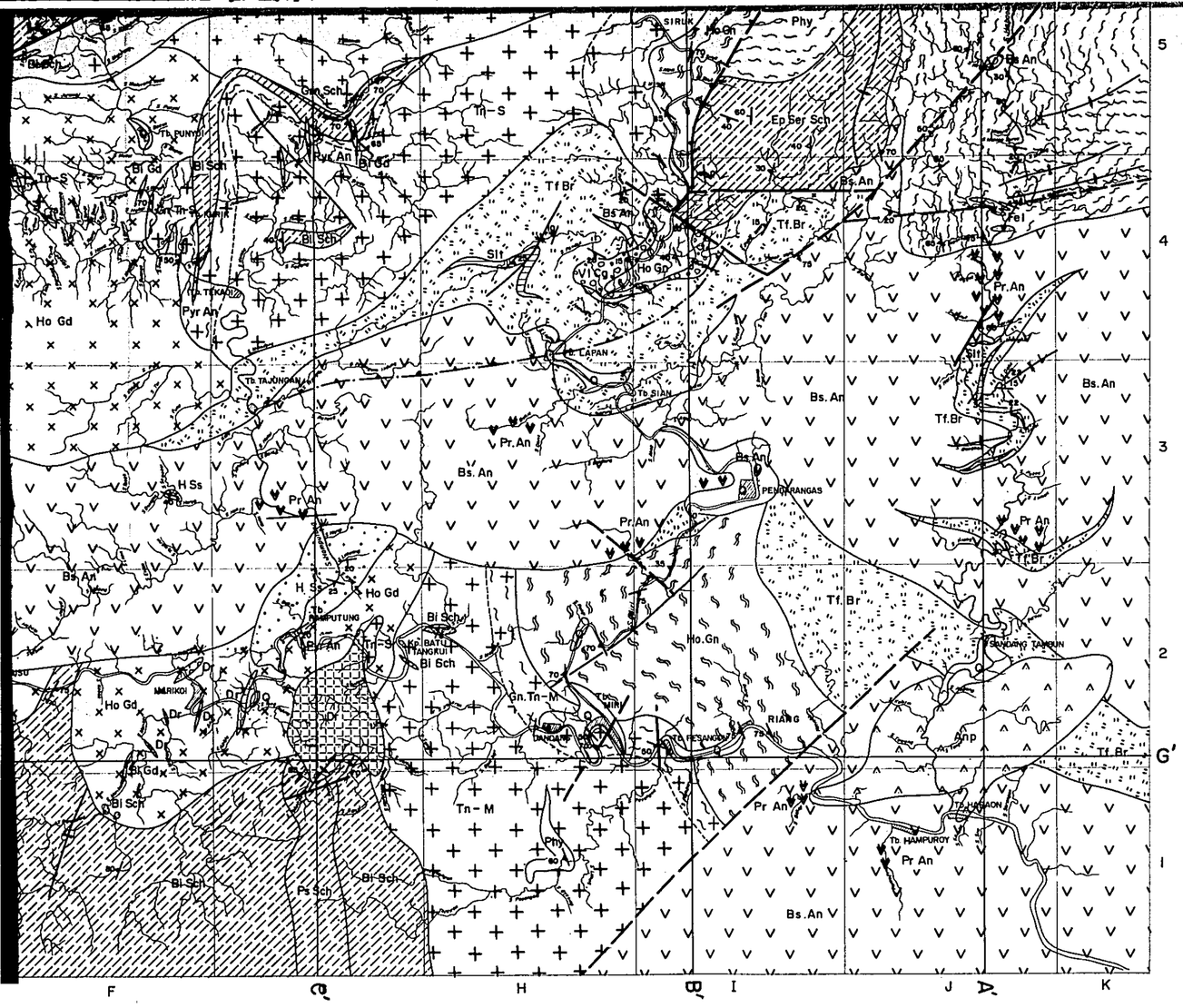
Rhy Rhyolite

Da 2 Hornblende - biotite dacite ,

An P Augite - hornblende andesite

Gd P Granodiorite - porphyrite

Dr P Diorite - porphyrite , Quartz d



Palaeo

Tf
Tf Br
Tuff , Tuff breccia

Vl Cg
Volcanic conglomerate

CRETACEOUS

S4 Alternation of fine sandstone and shale

S3 Shale

S2 Alternation of sandstone and shale

Sl

C.Ss Coarse sandstone (Fossil)

B.Cg Basal conglomerate

CARBONIFEROUS ~ JULASSIC

Metamorphic rocks

Hf Biotite hornfels (Pejangoi Hornfels)

Phy Phyllite (Habaon Phyllite)

Sch Bi Biotite (Schist) , Grn Green (") , Ep-Ser Epidote-Sericite (") , Ps Psammitic (")

HoGn Biotite - hornbrende Gneiss

Igneous rocks

Pyr An Pyroxem andesite

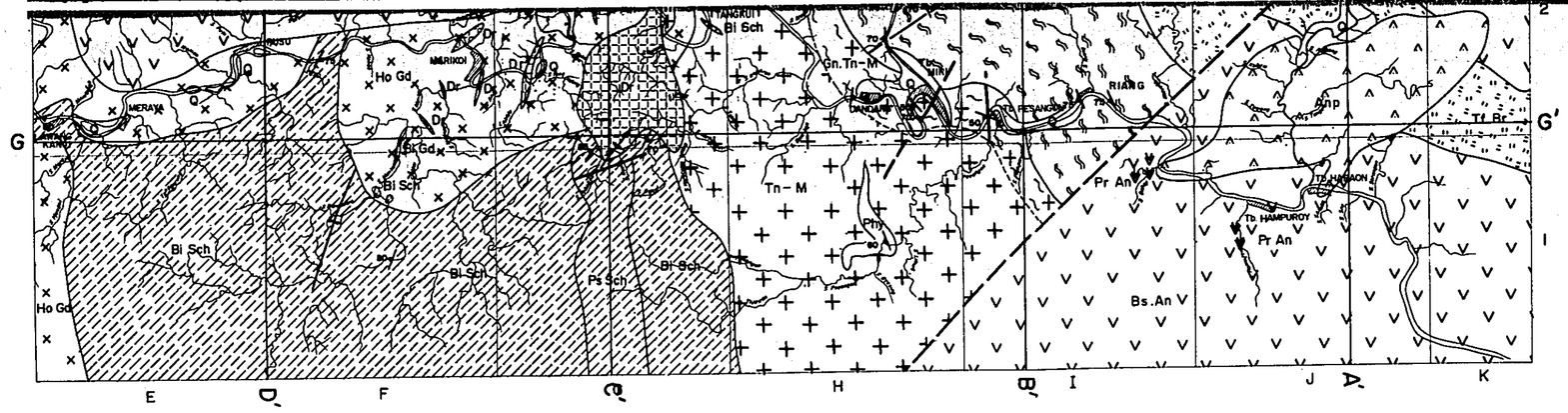
Rhy Rhyolite

Da 2 Hornblende - biotite dacite , Dacite - porphyry

An P Augite - hornblende andesite , Porphyrite

Gd P Granodiorite - porphyrite

Dr P Diorite - porphyrite , Quartz diorite - porphyrite



CARBONIFEROU

Sch	Bi Biotite (Schist)	Grn Green (")	Ep - S Epidote - S ("
HoGn	Biotite - hornbrende Gneiss		

Igneous rocks

Pyr An	Pyroxem andesite	
Rhy	Rhyolite	
Da 2	Hornblende - biotite dacite ,	
An P	Augite - hornblende andesite ,	
Gd P	Granodiorite - porphyrite	
Dr P	Diorite - porphyrite , Quartz di	
Dr	Diorite , Quartz diorite	
BiGd	Leucocratic biotite granodior	(P
HoGd	Hornblende granodiorite	(Marikoi ,
Fel	Felsite	
Da 1	Hornblende - biotite dacite	
Tn	Hornblende tonalite (massive)	Tn-N (N Tn-S (S Tn-M (
Gn Tn	Hornblende tonalite (gneissose)	Gn Tn-N Gn Tn-S Gn Tn-M
Tn Gn	Tonalite - gneiss	

Boundary of different rock

Transitional boundary of similar rock

Strike and dip of bedding

Schistosity and gneissosity

Anticlinal axis

Synclinal axis

Normal fault confirmed

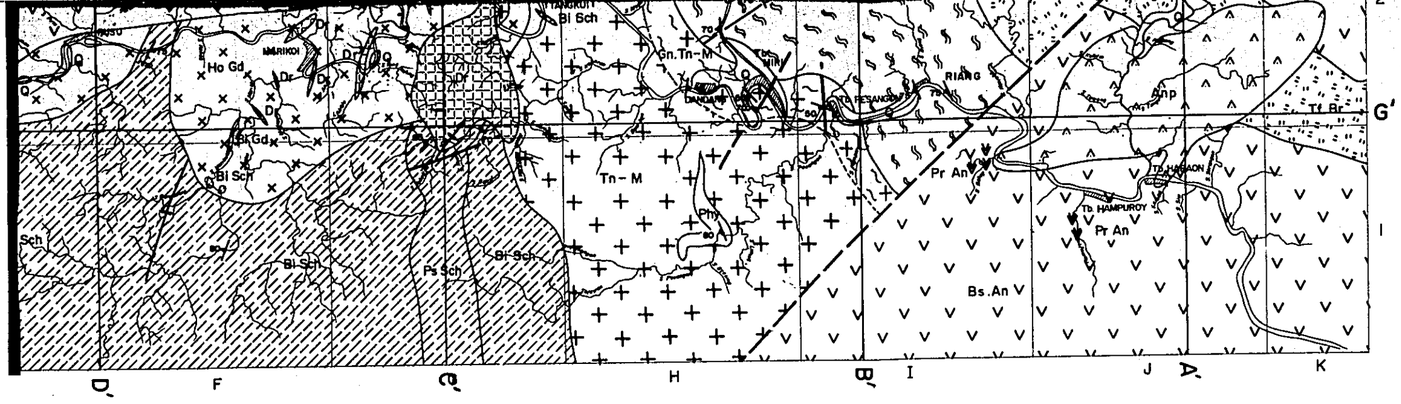
Normal fault inferred

Reverse fault confirmed

Reverse fault inferred

Reverse fault inferred in basement rocks

(A) (A)' Line of profile map



CARBONIFEROUS

Sch	Bi Biotite (Schist) ,	Grn Green (") ,	Ep-Ser Epidote-Sericite (") ,	Ps Psammitic (")	
HoGn	Biotite - hornbrende Gneiss				

Igneous rocks

Pyr An	Pyroxem andesite	
Rhy	Rhyolite	
Da 2	Hornblende - biotite dacite , Dacite - porphyry	
An P	Augite - hornblende andesite , Porphyrite	
Gd P	Granodiorite - porphyrite	
Dr P	Diorite - porphyrite , Quartz diorite - porphyrite	
Dr	Diorite , Quartz diorite	
BiGd	Leucocratic biotite granodiorite (Punyoi Granodiorite)	
HoGd	Hornblende granodiorite (Marikoi , Tekaoi Granodiorite)	
Fel	Felsite	
Da 1	Hornblende - biotite dacite	
Tn	Hornblende tonalite (massive)	Tn-N (Napoi Tonalite) / Tn-S (Siruk ") / Tn-M (Miri ")
Gn Tn	Hornblende tonalite (gneissose)	Gn Tn-N (Napoi gneissose tonalite) / Gn Tn-S (Siruk " ") / Gn Tn-M (Miri " ")
Tn Gn	Tonalite - gneiss	

- Boundary of different rock
- Transitional boundary of similar rock
- Strike and dip of bedding
- Schistosity and gneissosity
- Anticlinal axis
- Synclinal axis
- Normal fault confirmed
- Normal fault inferred
- Reverse fault confirmed
- Reverse fault inferred
- Reverse fault inferred in basement rocks
- (A)——(A)' Line of profile map

PL.7

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

GEOLOGICAL SURVEY OF INDONESIA

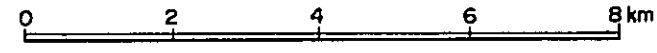
DIRECTORATE GENERAL OF MINES

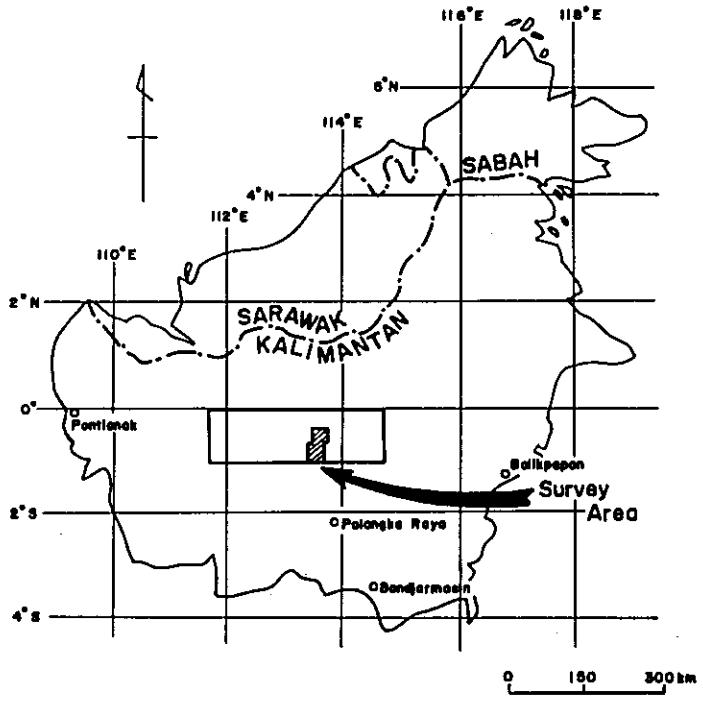
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

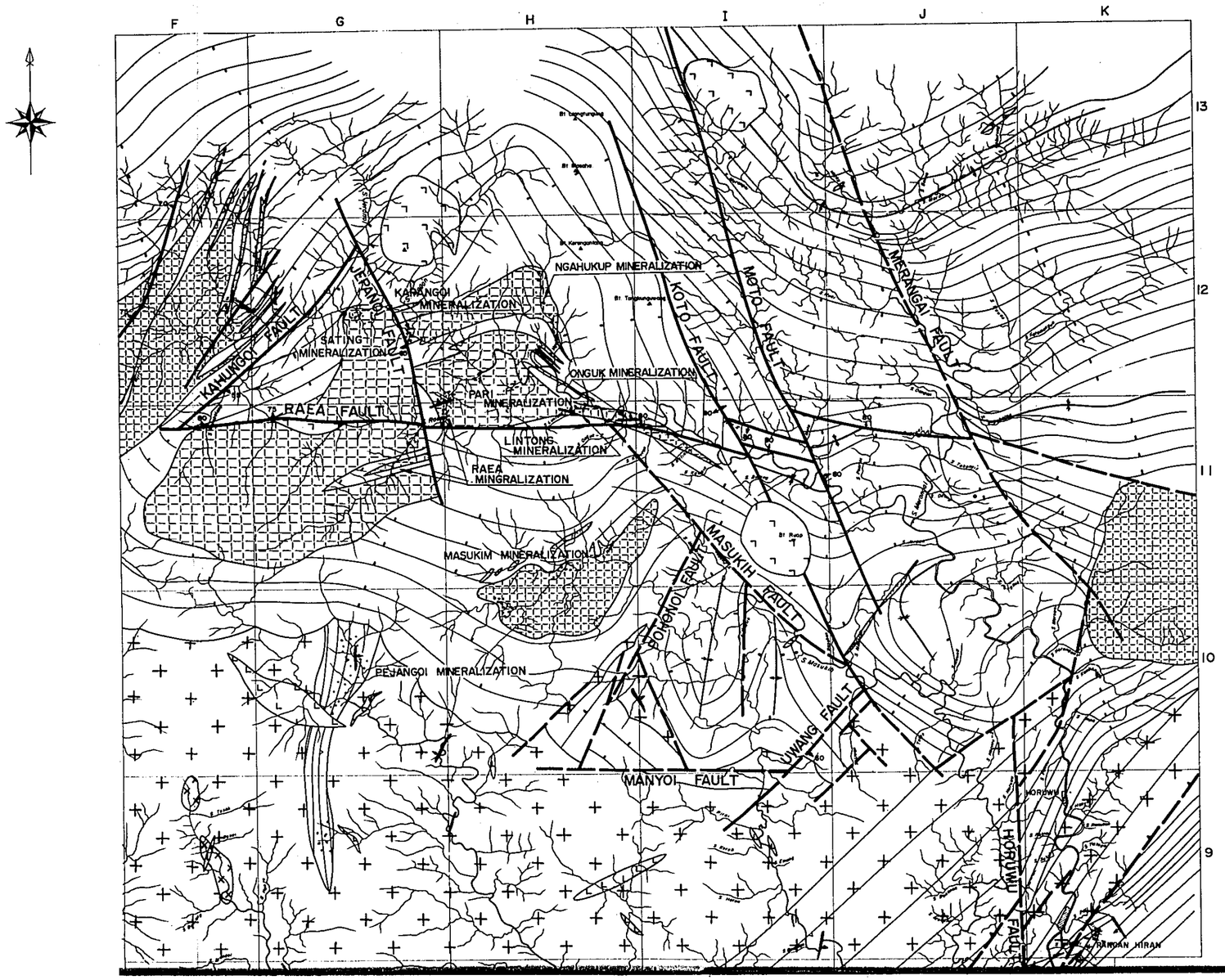
MAP OF RELATIONS BETWEEN GEOLOGICAL STRUCTURE AND MINERALIZATION

Scale 1:100,000





February · 1979



METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

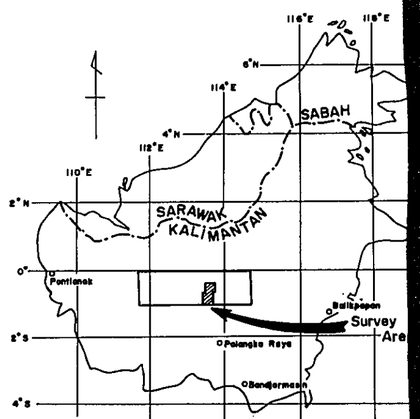
GEOLOGICAL OF INDONE
DIRECTORATE OF MINES
MINISTRY O AND ENER

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESI

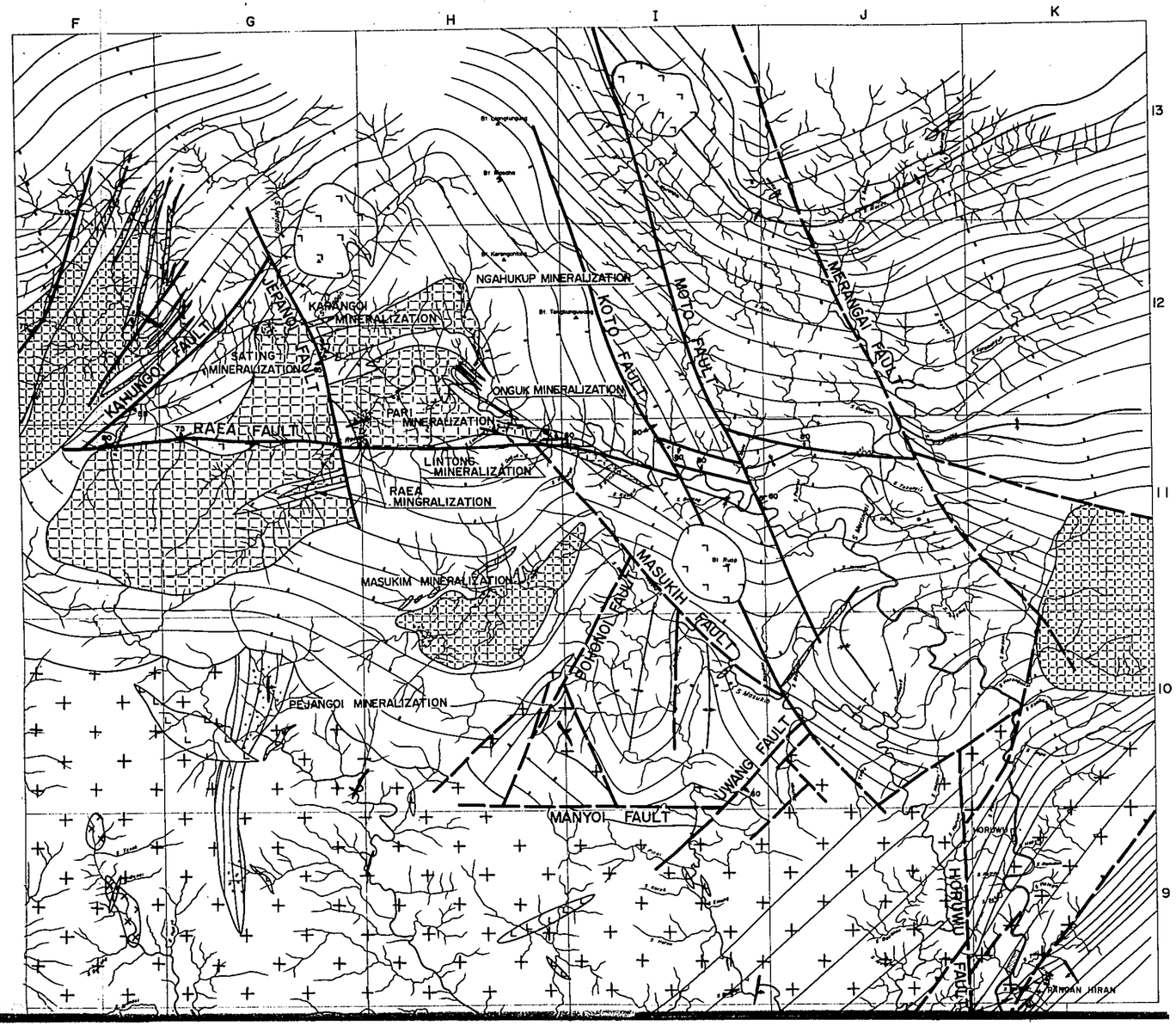
MAP OF RELATIONS BETWEEN GE STRUCTURE AND MINERALIZAT

Scale 1:100,000

0 2 4 6



February · 1979



PL. 7

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

GEOLOGICAL SURVEY OF INDONESIA

DIRECTORATE GENERAL OF MINES

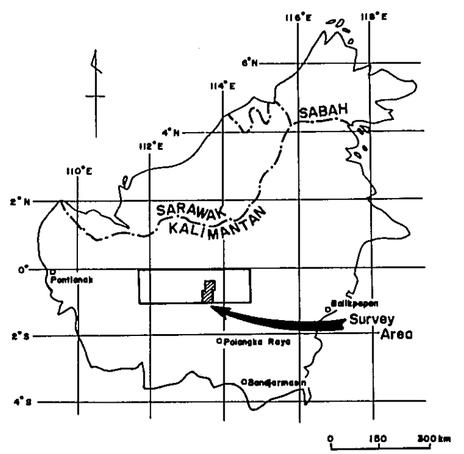
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

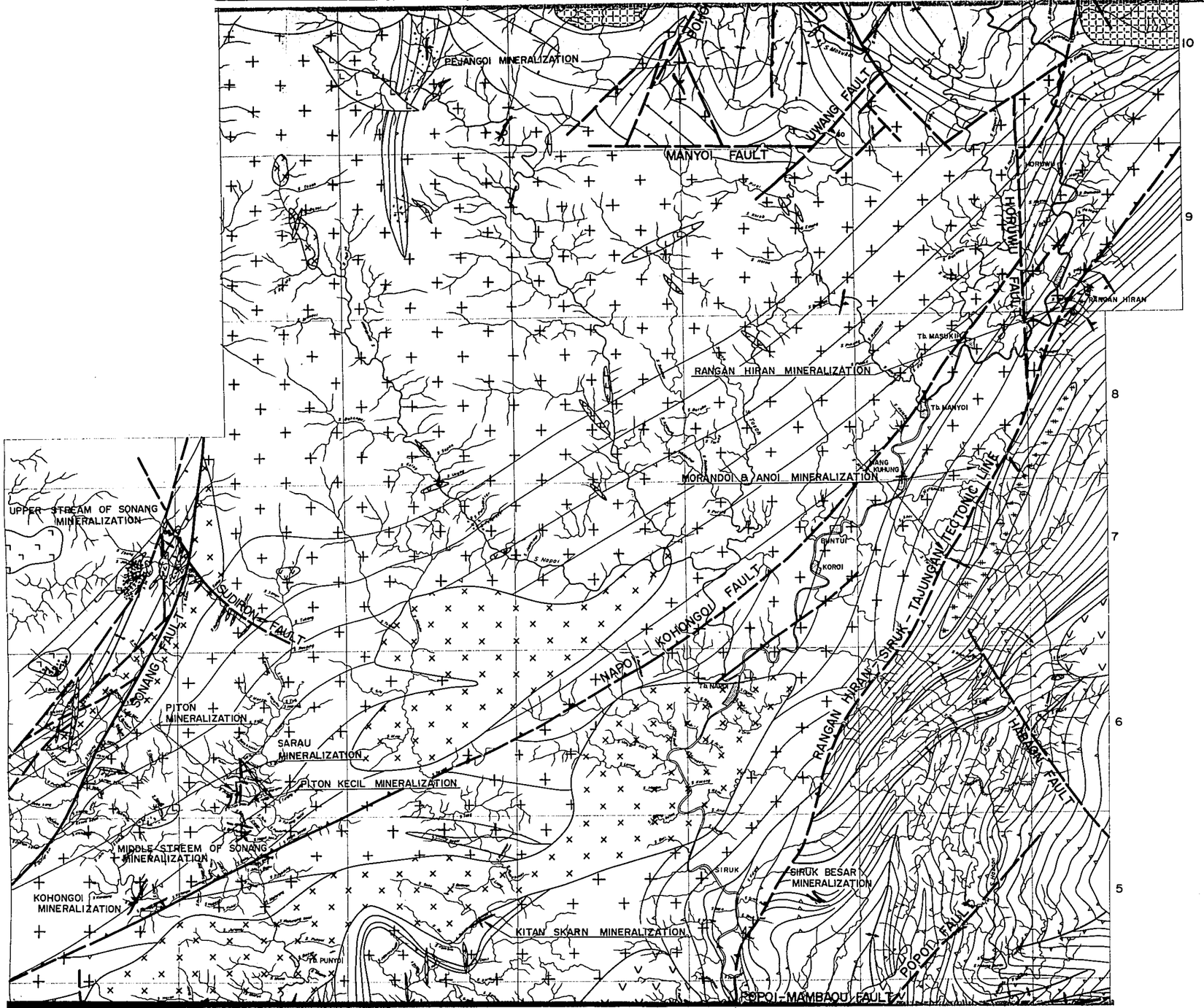
MAP OF RELATIONS BETWEEN GEOLOGICAL STRUCTURE AND MINERALIZATION

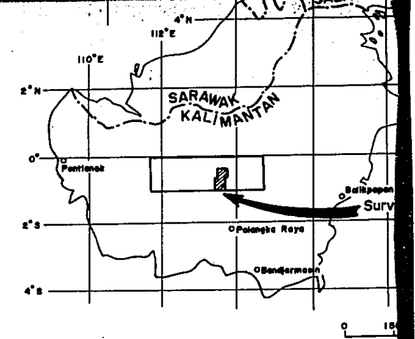
Scale 1:100,000

0 2 4 6 8 km



February · 1979





February · 1979

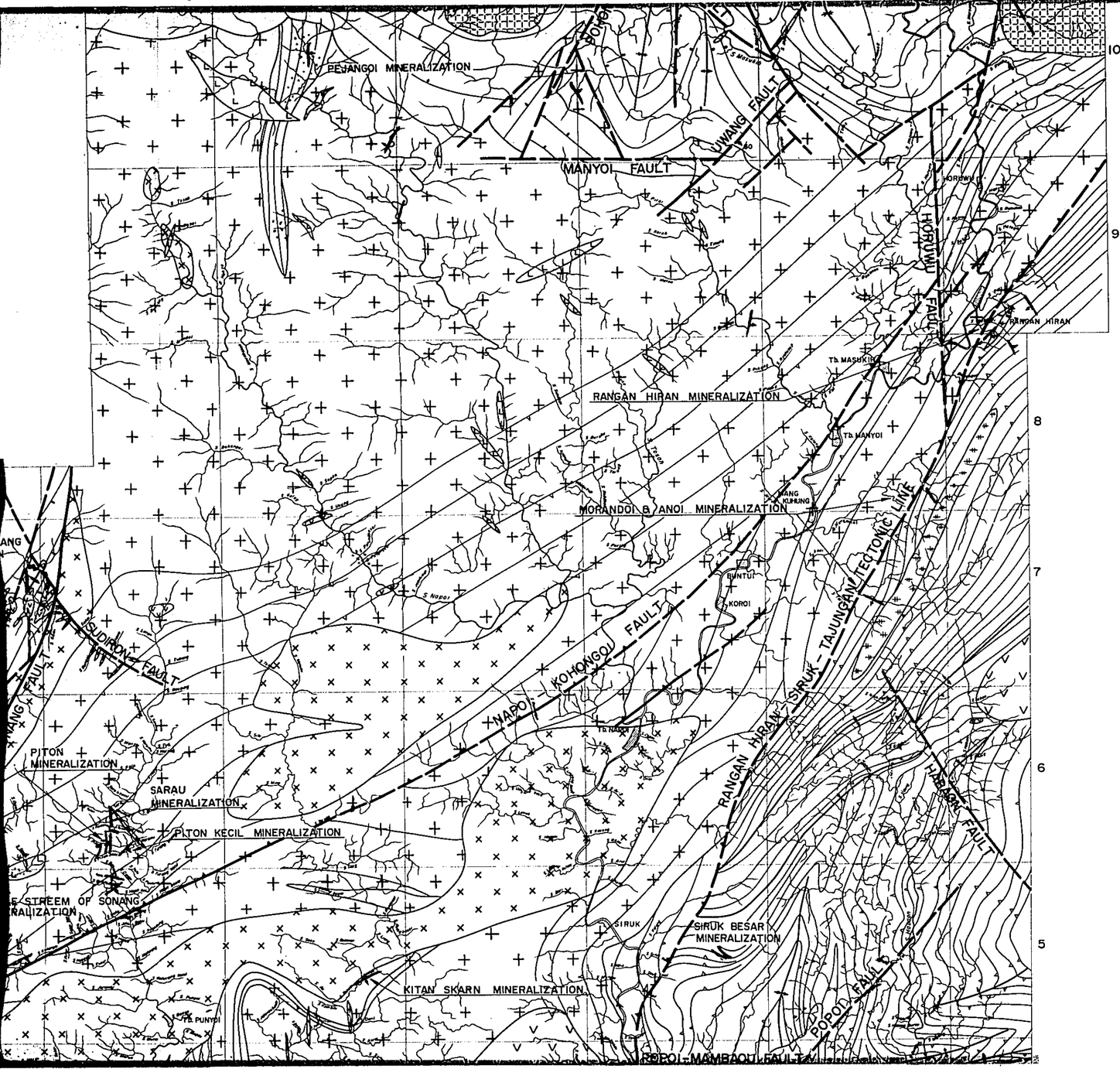
L E G E N D

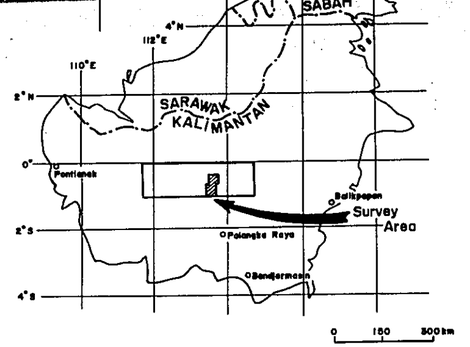
Younger Intrusive Rocks — Tertiary

- Dikes (Pyroxen andesite, Rhyolite Felsite)
- Si
- Hornblende-biotite dacite ~ dacite porphyry
- Granodiorite - porphyrite
- Diorite , Diorite - porphyrite , Quartz diorite , Quartz diorite pophyrite

Tonalite - Granodiorite Complex

- Hornblende-biotite dacite
- Hornhonde granodiorite Leucocratic biotite granodiorite
- Hornblende tonalite (massive)
  Hornblende tonalite (gneissose)
  Tonalite gneiss





February · 1979

L E G E N D

Younger Intrusive Rocks

Dikes (Pyroxen andesite, Rhyolite Felsite)

Hornblende-biotite dacite ~ dacite porphyry

Granodiorite - porphyrite

Diorite , Diorite - porphyrite , Quartz diorite , Quartz diorite pophyrite

Tertiary Volcanic Member

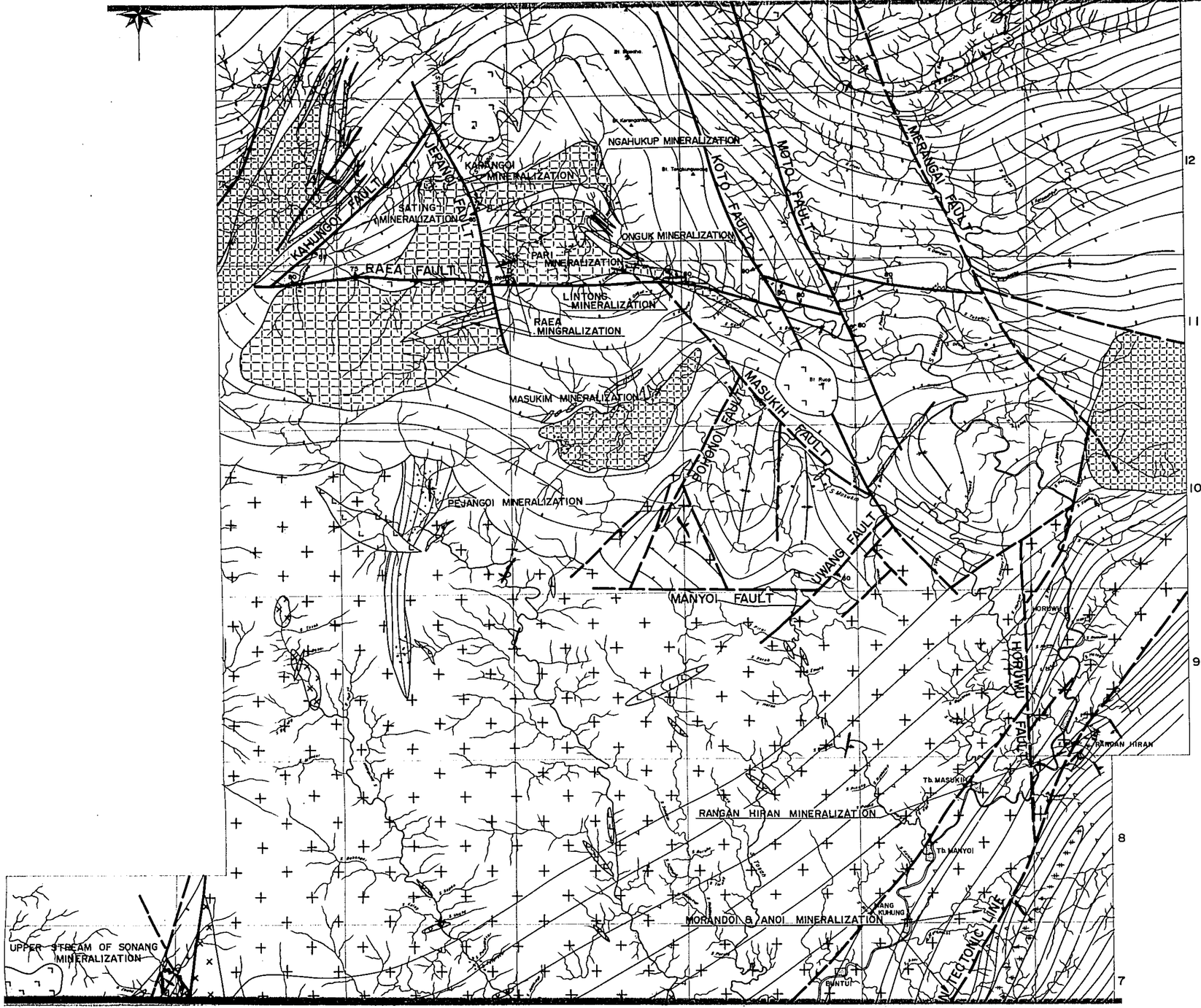
Sian Andesite Formation

Tonalite - Granodiorite Complex

Hornblende-biotite dacite

Hornhonde granodiorite
Leucocratic biotite granodiorite

Hornblende tonalite (massive)
Hornblende tonalite (gneissose)
Tonalite gneiss



COOPERATION AGENCY

MINISTRY O
AND ENER

GEOLOGICAL SURVEY

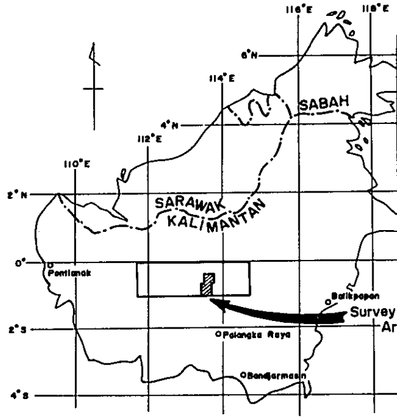
OF

CENTRAL KALIMANTAN INDONES

MAP OF RELATIONS BETWEEN G
STRUCTURE AND MINERALIZA

Scale 1:100,000

0 2 4 6



February · 1979

L E G E N D

Younger Intrusive Rocks — Tertiary

JAPAN INTERNATIONAL COOPERATION AGENCY

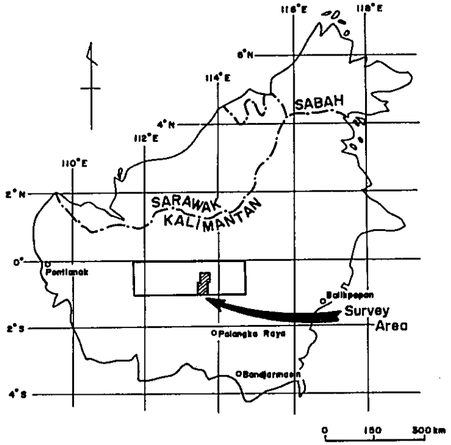
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

MAP OF RELATIONS BETWEEN GEOLOGICAL STRUCTURE AND MINERALIZATION

Scale 1: 100,000

0 2 4 6 8 km



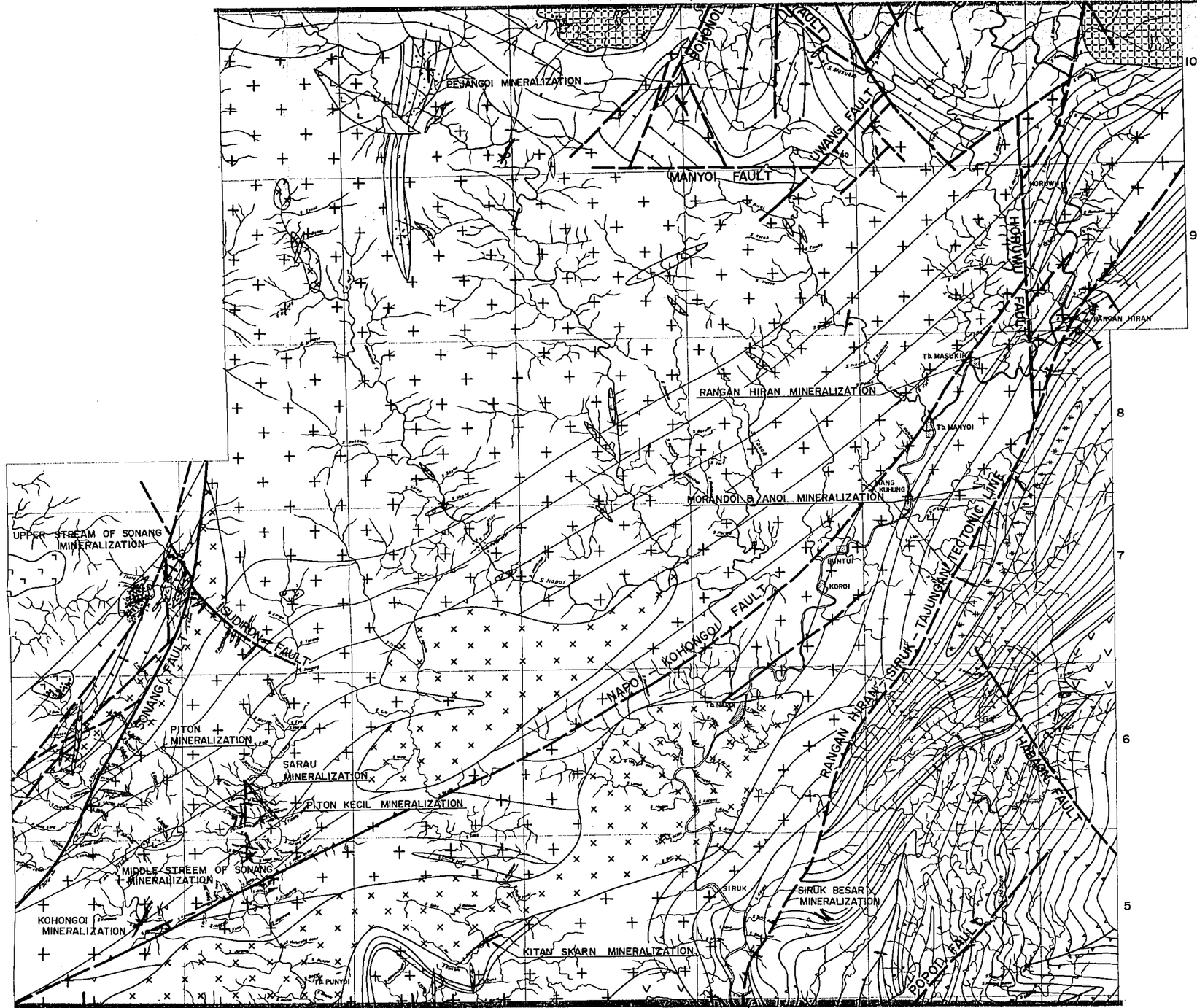
February · 1979

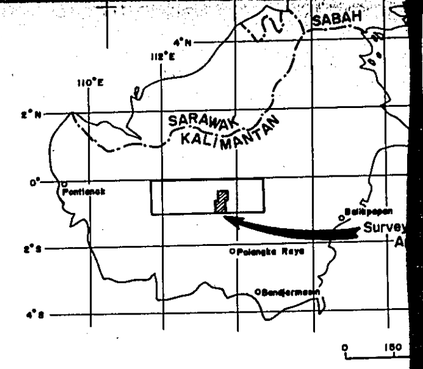
L E G E N D

Younger Intrusive Rocks

Tertiary Volcanic Member

Pyroxen andesite





February · 1979

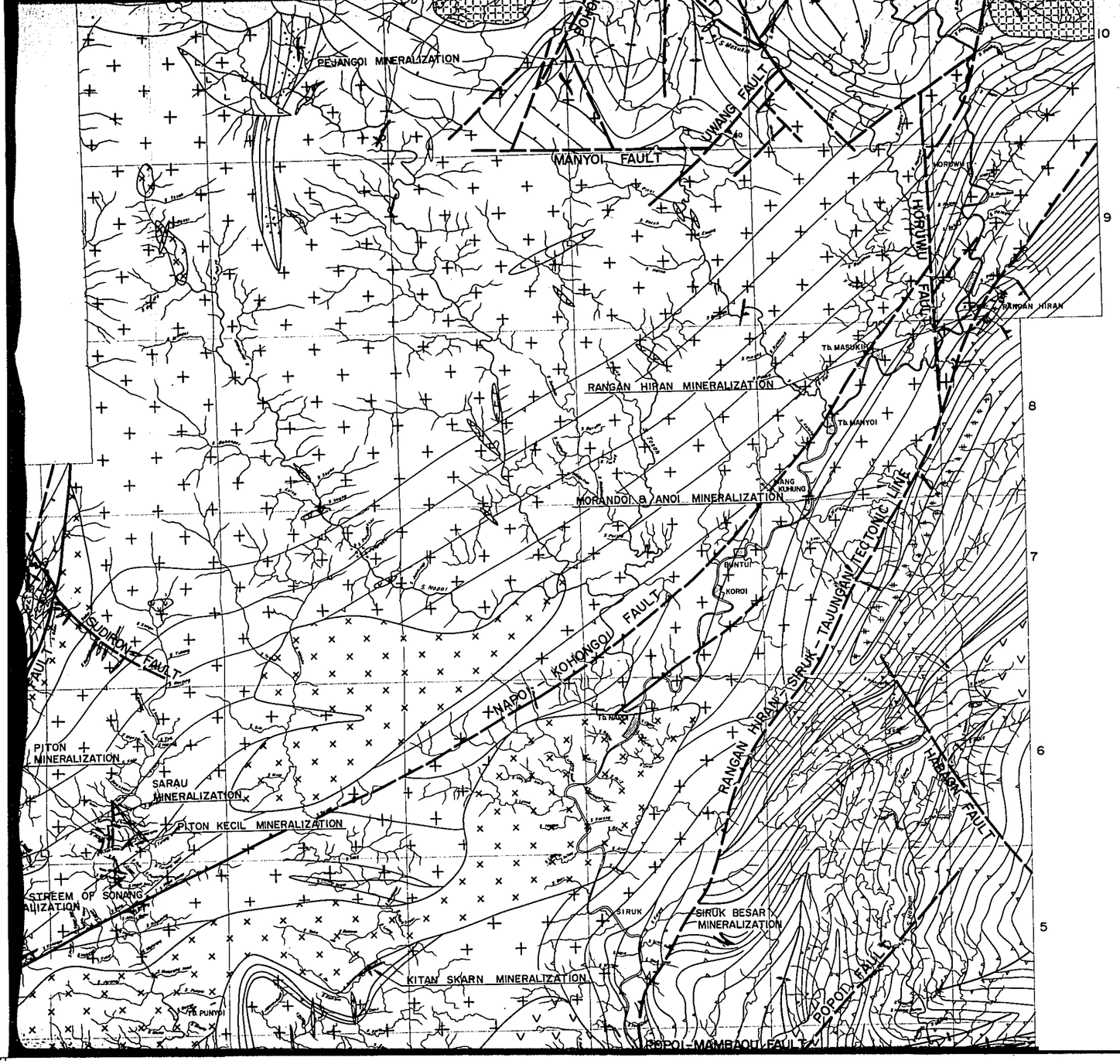
LEGEND

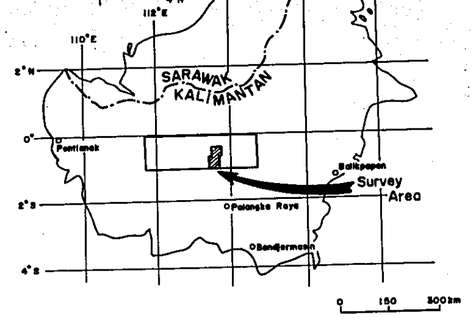
Younger Intrusive Rocks — Tertiary

- Dikes (Pyroxen andesite, Rhyolite Felsite)
- Sia
- Hornblende-biotite dacite ~ dacite porphyry
- Granodiorite-porphyrite
- Diorite, Diorite-porphyrite, Quartz diorite, Quartz diorite pophyrite

Tonalite – Granodiorite Complex

- Hornblende-biotite dacite
- Hornhonde granodiorite
  Leucocratic biotite granodiorite
- Hornblende tonalite (massive)
  Hornblende tonalite (gneissose)
  Tonalite gneiss





February · 1979

L E G E N D

Younger Intrusive Rocks

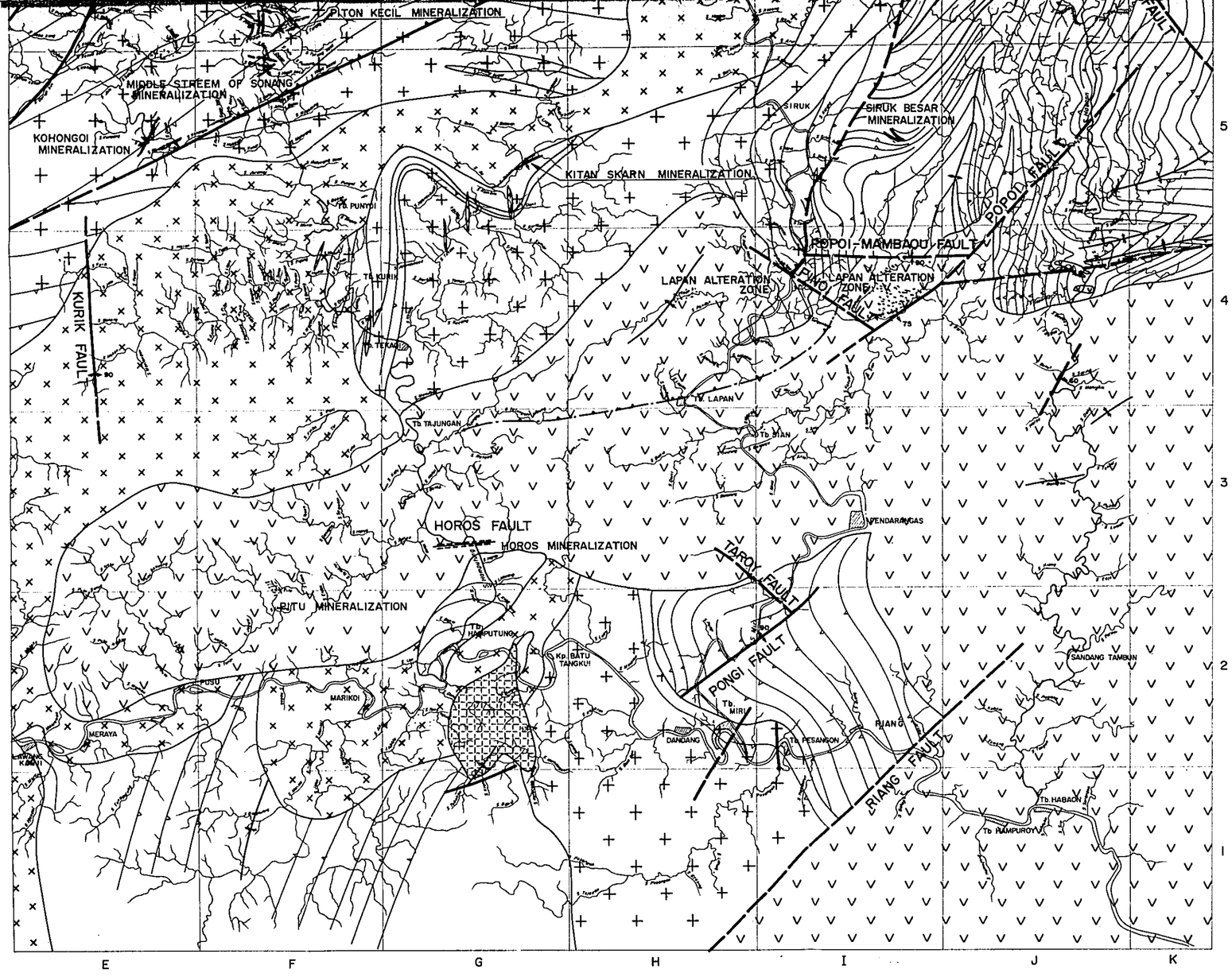
- Dikes (Pyroxen andesite, Rhyolite Felsite)
- Hornblende-biotite dacite ~ dacite porphyry
- Granodiorite – porphyrite
- Diorite , Diorite – porphyrite , Quartz diorite , Quartz diorite pophyrite

Tertiary Volcanic Member

- Sian Andesite Formation

Tonalite – Granodiorite Complex

- Hornblende-biotite dacite
- Hornhonde granodiorite
  Leucocratic biotite granodiorite
- Hornblende tonalite (massive)
  Hornblende tonalite (gneissose)
  Tonalite gneiss



Tonalite – Granodiorite Complex

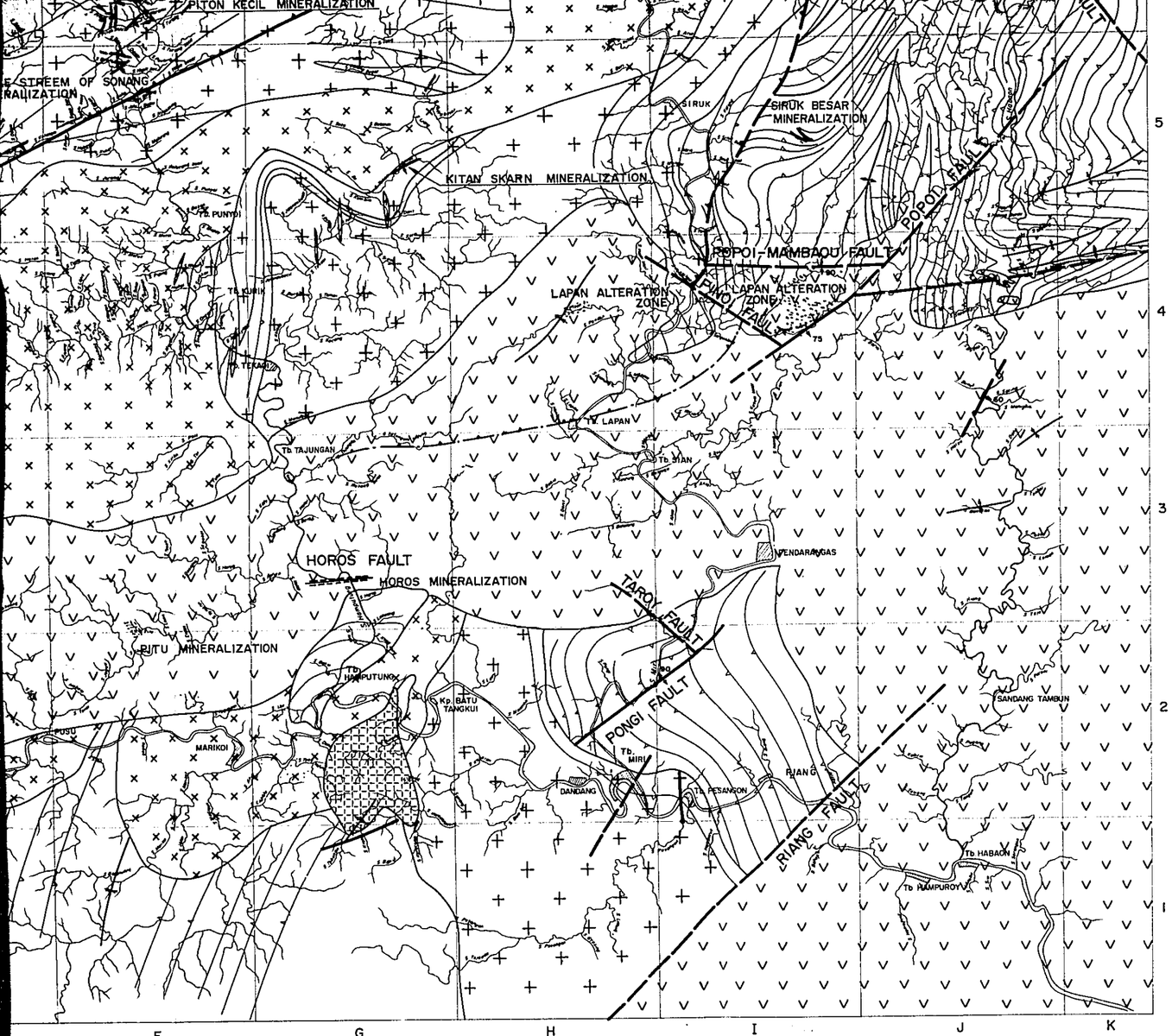
- Hornblende-biotite dacite
- Hornhonde granodiorite
  Leucocratic biotite granodiorite
- Hornblende tonalite (massive)
  Hornblende tonalite (gneissose)
  Tonalite gneiss

Geological stracture

- Strike line and dip of bedding in sediment
- Strike line and dip of gneissosity in gneiss
- Strike line and dip of gneissosity and schist in metamorphic rocks
- Anticlinal axis
- Synclinal axis
- Normal fault confirmed
- Normal fault inferred
- Reverse fault confirmed
- Reverse fault inferred
- Reverse fault inferred in basement rocks

Mineralization

- Metalliferous vein , Ore bed , Quartz
- Disseminated zone of minerals



Hornblende-biotite dacite

Hornhonde granodiorite
Leucocratic biotite granodiorite

Hornblende tonalite (massive)
Hornblende tonalite (gneissose)
Tonalite gneiss

Geological stracture

Strike line and dip of bedding in sedimentary rocks

Strike line and dip of gneissosity in gneissose tonalites

Strike line and dip of gneissosity and schistosity in metamorphic rocks

Anticlinal axis

Synclinal axis

Normal fault confirmed

Normal fault inferred

Reverse fault confirmed

Reverse fault inferred

Reverse fault inferred in basement rocks

Mineralization

Metalliferous vein , Ore bed , Quartz vein

Disseminated zone of minerals

PL. 8

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

GEOLOGICAL SURVEY OF INDONESIA

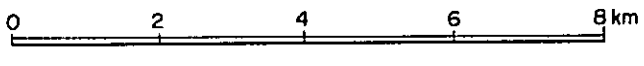
DIRECTORATE GENERAL OF MINES

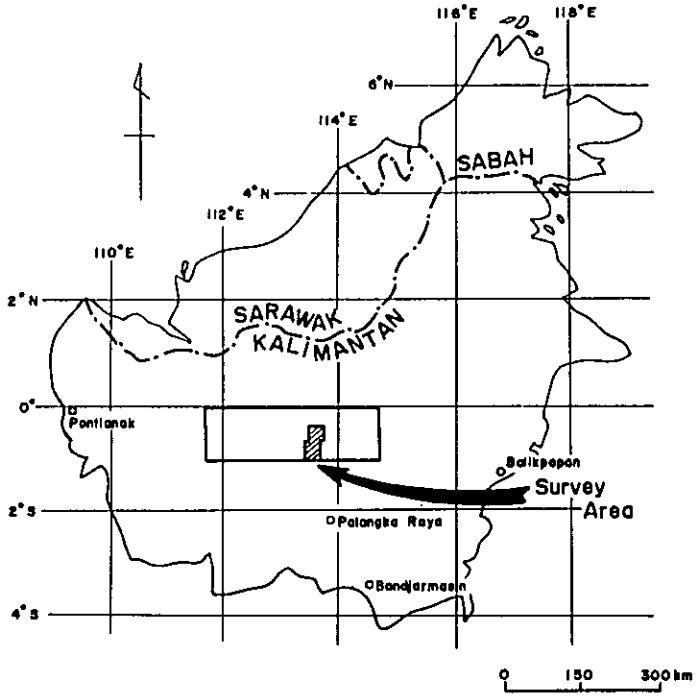
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

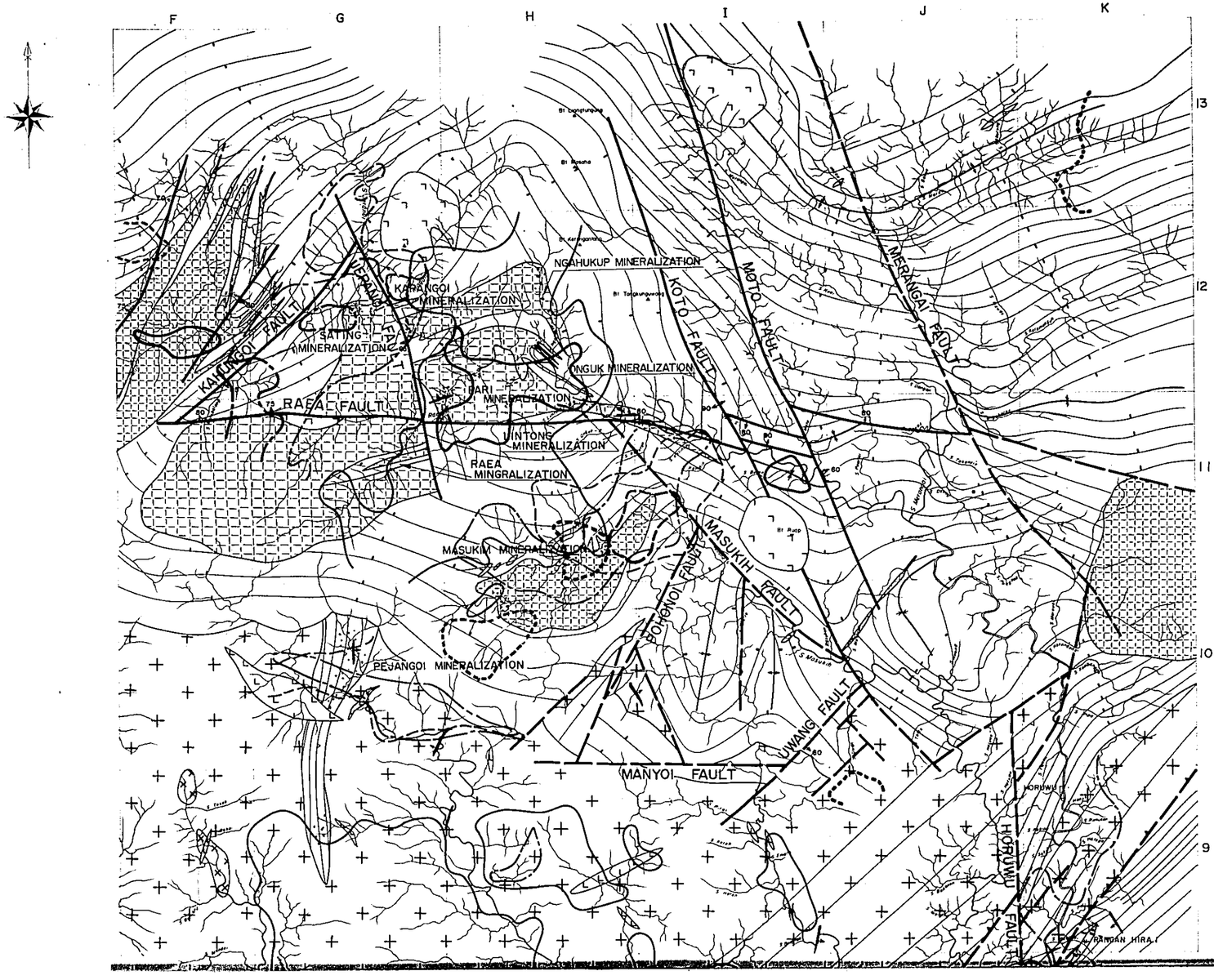
MAP OF COMPOSITE GEOCHEMICAL ANOMALIES

Scale 1: 100,000





February · 1979



METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

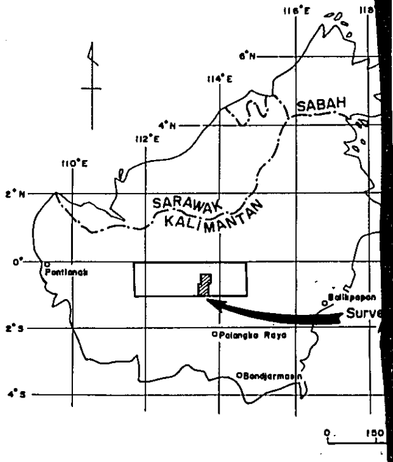
— GEOLOGICA OF IND DIRECTORA OF MINE MINISTRY AND EN

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONE

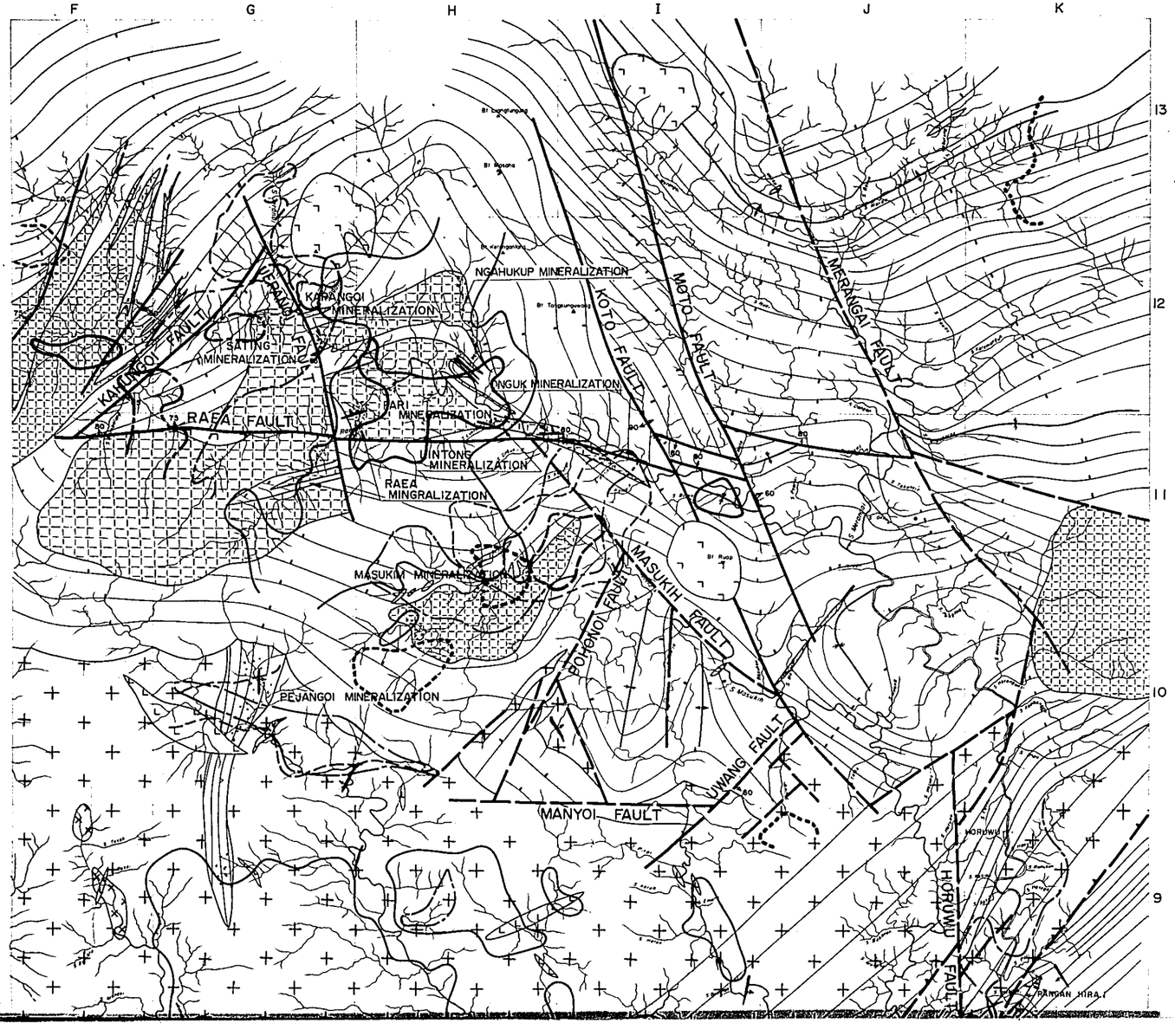
MAP OF COMPOSITE GEOCHEMICAL

Scale 1:100,000

0 2 4 6



February : 1979



PL. 8

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

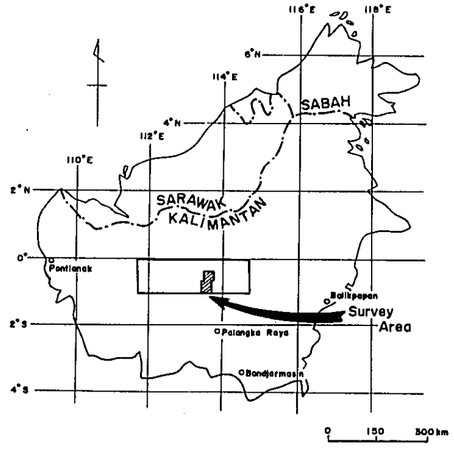
GEOLOGICAL SURVEY OF INDONESIA
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

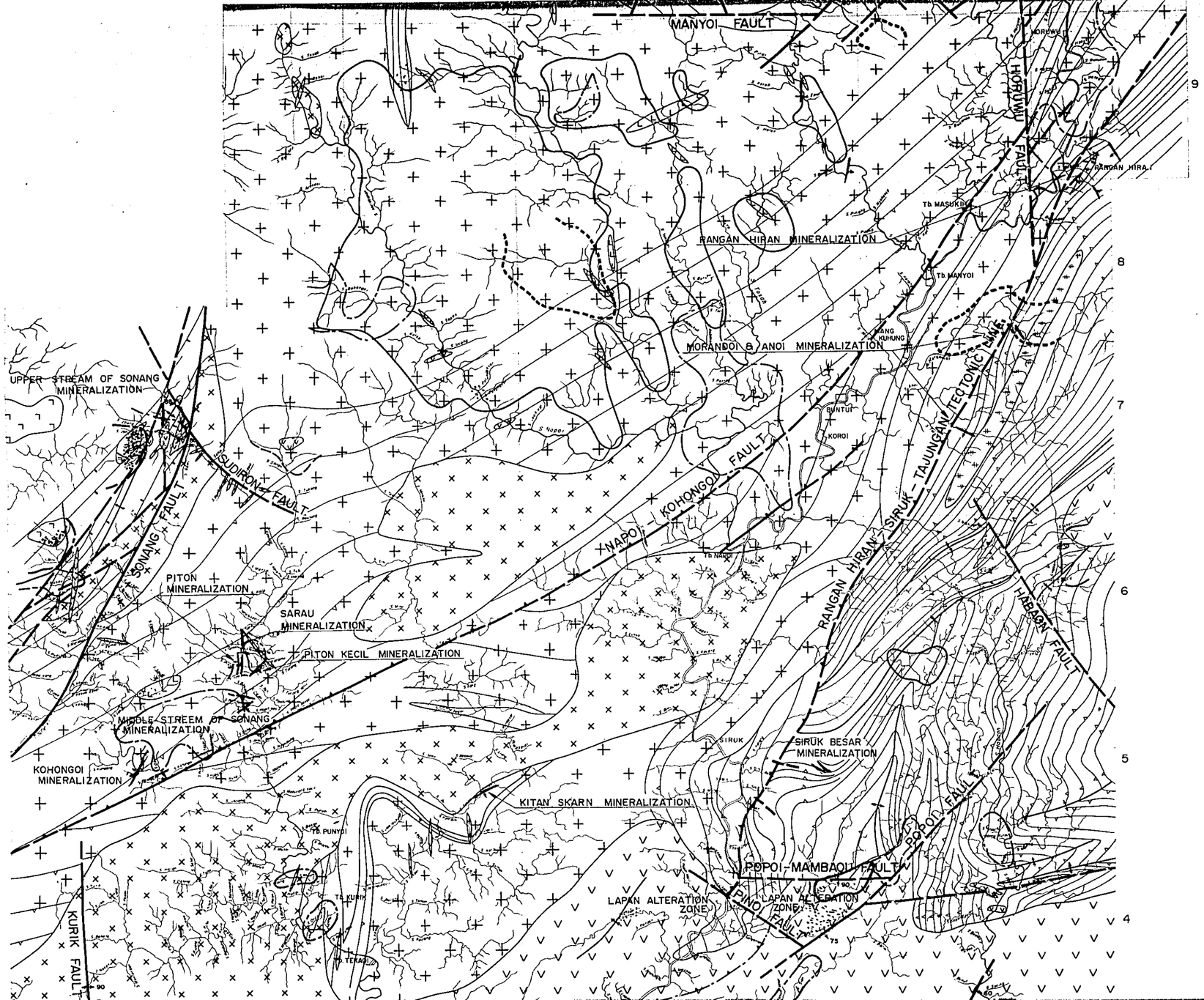
MAP OF COMPOSITE GEOCHEMICAL ANOMALIES

Scale 1:100,000

0 2 4 6 8 km



February · 1979



February · 1979

LEGEND

Younger Intrusive Rocks — Tertiary

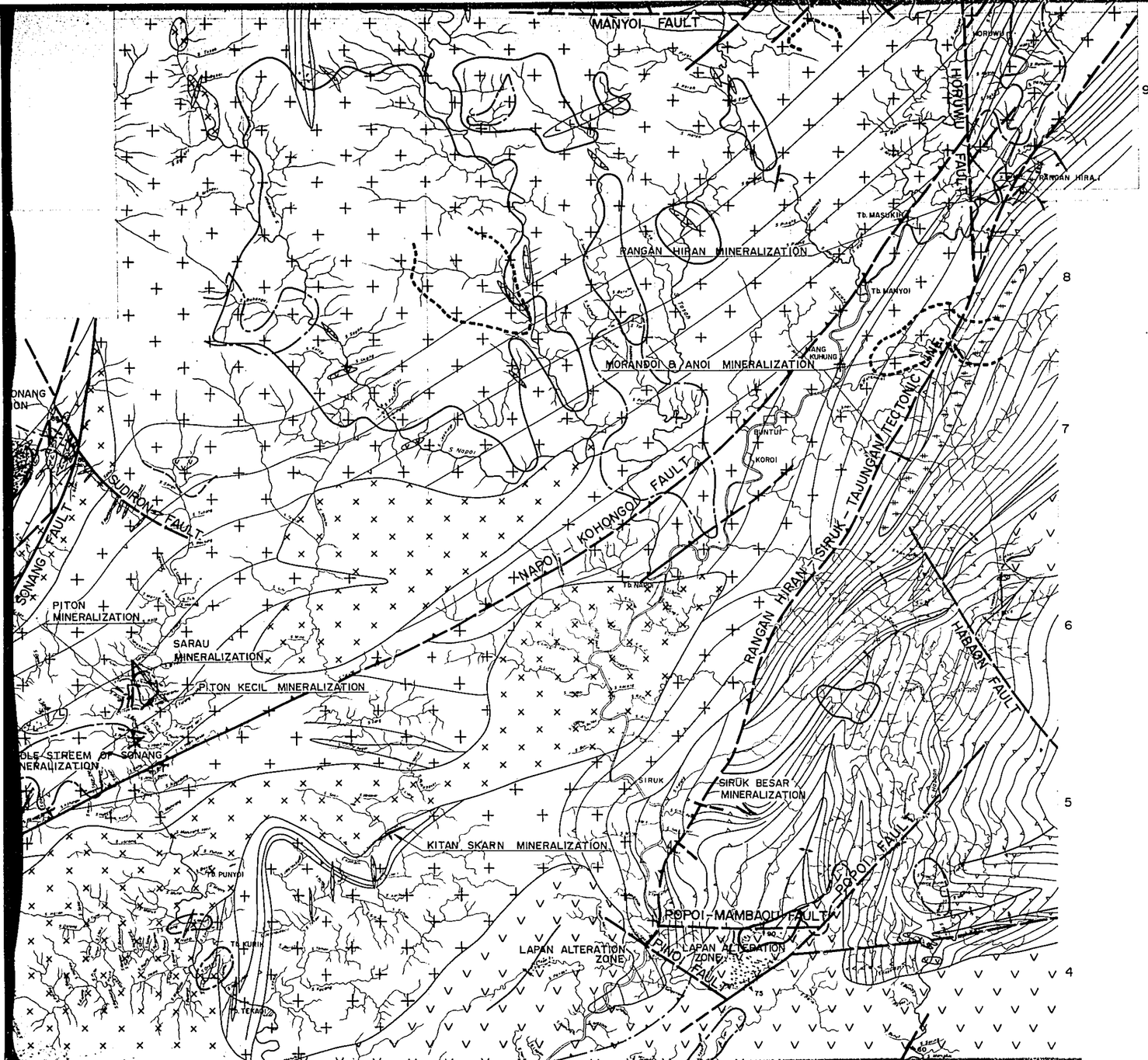
- Dikes (Pyroxen andesite, Rhyolite Felsite)
- Hornblende-biotite dacite ~ dacite porphyry
- Granodiorite - porphyrite
- Diorite, Diorite - porphyrite, Quartz diorite, Quartz diorite pophyrite

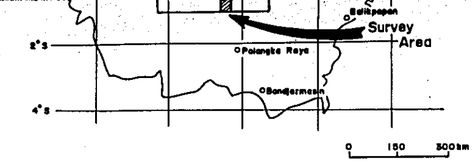
Tonalite - Granodiorite Complex

- Hornblende-biotite dacite
- Hornhonde granodiorite
  Leucocratic biotite granodiorite
- Hornblende tonalite (massive)
  Hornblende tonalite (gneissose)
  Tonalite gneiss

Geological stracture

- Strike line and dip of bedding in sedimen
- Strike line and dip of gneissosity in gneis





February · 1979

L E G E N D

Younger Intrusive Rocks

Dikes (Pyroxen andesite, Rhyolite Felsite)

Hornblende-biotite dacite ~ dacite porphyry

Granodiorite - porphyrite

Diorite , Diorite - porphyrite , Quartz diorite , Quartz diorite pophyrite

Tertiary Volcanic Member

Sian Andesite Formation

Tonalite - Granodiorite Complex

Hornblende-biotite dacite

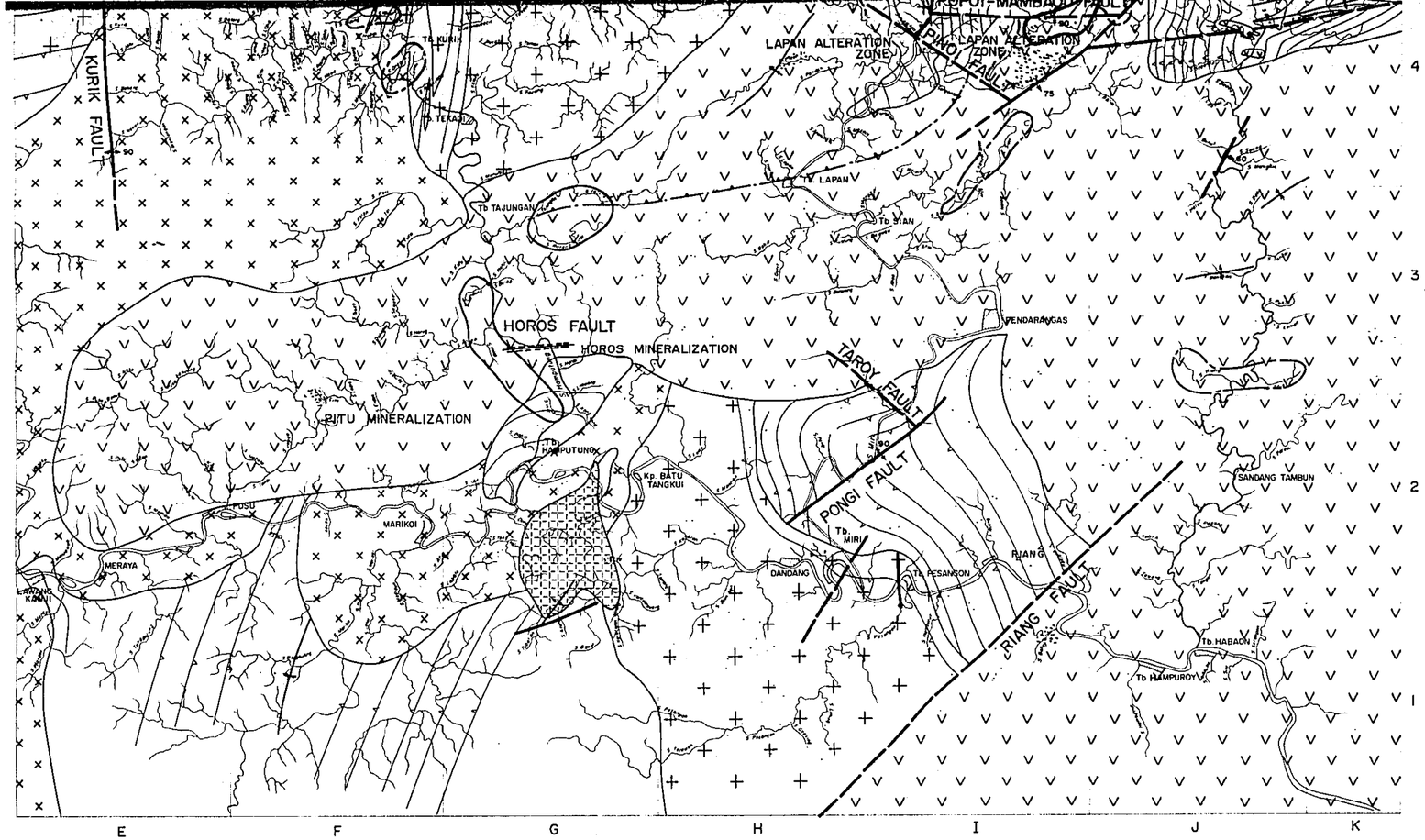
Hornhonde granodiorite
Leucocratic biotite granodiorite

Hornblende tonalite (massive)
Hornblende tonalite (gneissose)
Tonalite gneiss

Geological stracture

Strike line and dip of bedding in sedimentary rocks

Strike line and dip of gneissosity in gneissose tonalites



LEGEND

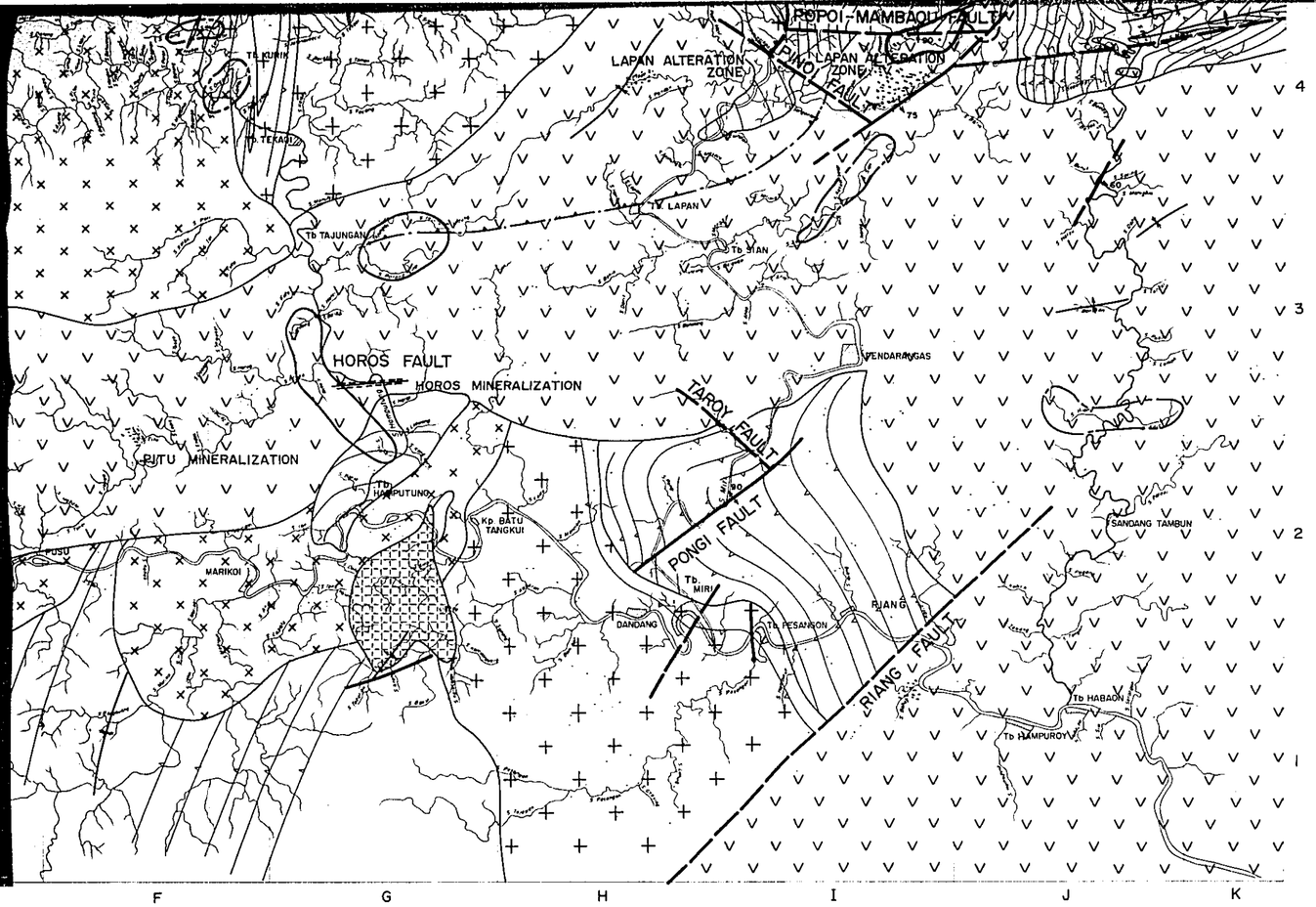
	First class Anomalies	Second class Anomalies
	> M + 2SD	M+2SD ~M+1SD
Cu		
Zn		
Pb		
Mo		

Geological stracture

- Strike line and dip of bedding in sedimemary
- Strike line and dip of gneissosity in gneissose
- Strike line and dip of gneissosity and schistosity in metamorphic rocks
- Anticlinal axis
- Synclinal axis
- Normal fault confirmed
- Normal fault inferred
- Reverse fault confirmed
- Reverse fault inferred
- Reverse fault inferred in basement rocks

Mineralization

- Metalliferous vein , Ore bed , Quartz vein
- Disseminated zone of minerals



LEGEND

	First class Anomalies	Second class Anomalies
	> M + 2SD	M+2SD ~M+1SD
Cu		
Zn		
Pb		
Mo		

Geological stracture

- Strike line and dip of bedding in sedimentary rocks
- Strike line and dip of gneissosity in gneissose tonalites
- Strike line and dip of gneissosity and schistosity in metamorphic rocks
- Anticlinal axis
- Synclinal axis
- Normal fault confirmed
- Normal fault inferred
- Reverse fault confirmed
- Reverse fault inferred
- Reverse fault inferred in basement rocks

Mineralization

- Metalliferous vein , Ore bed , Quartz vein
- Disseminated zone of minerals

PL. 9

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

GEOLOGICAL SURVEY OF INDONESIA

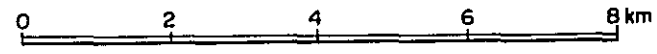
DIRECTORATE GENERAL OF MINES

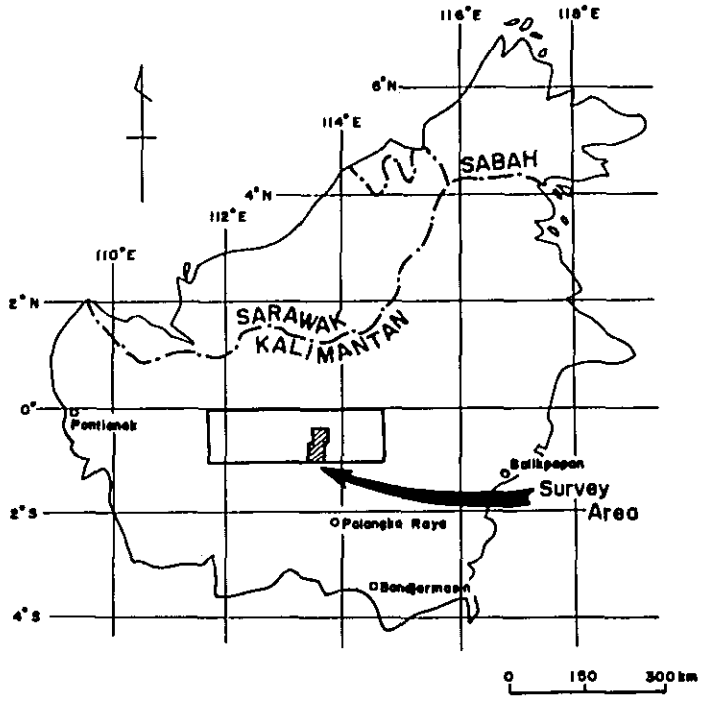
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

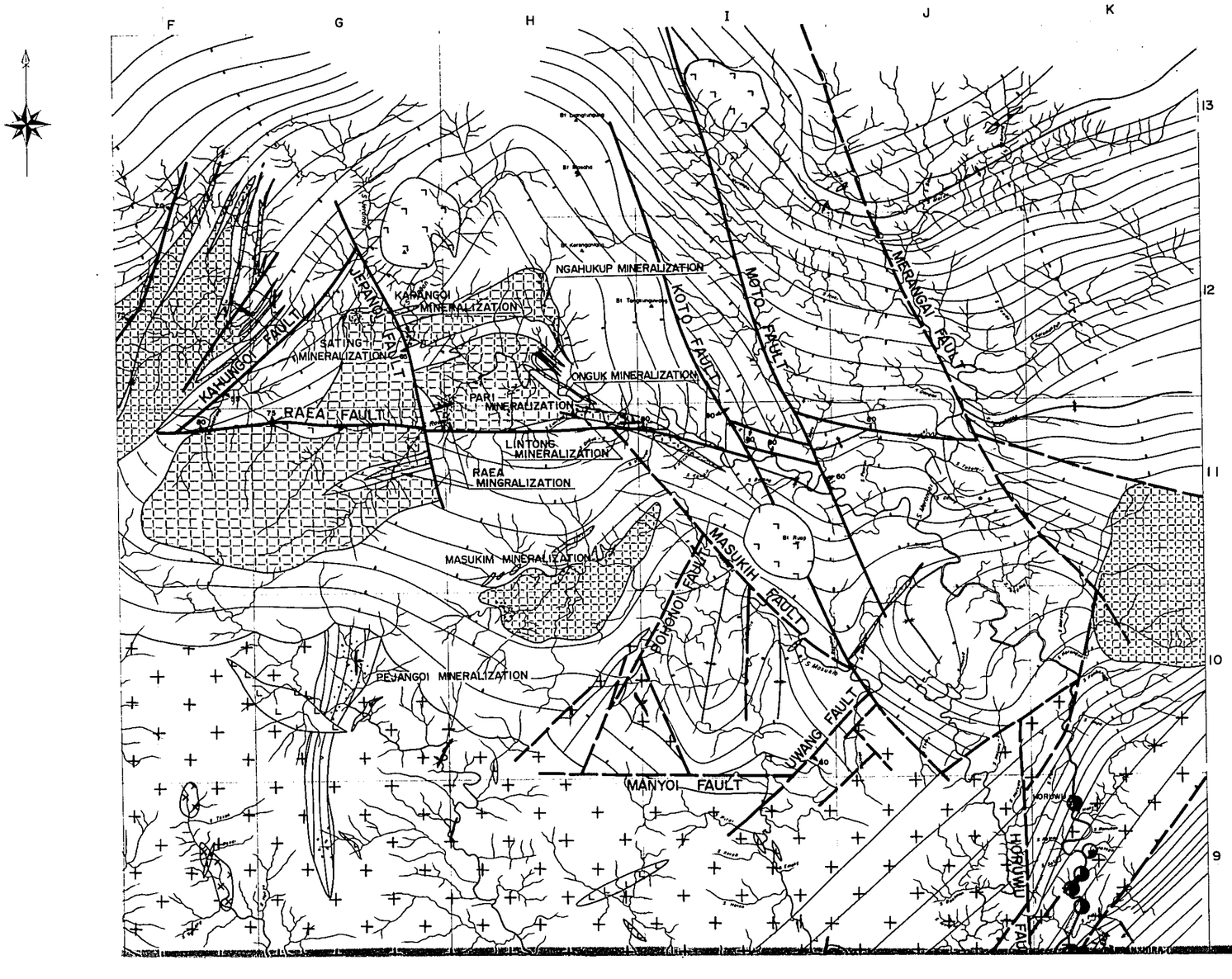
MAP OF RADIOMETRIC ANOMALIES

Scale 1: 100,000





February · 1979



METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

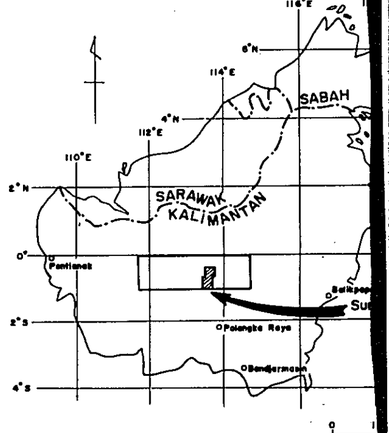
GEOLOGIC
OF IND
DIRECTOR
OF MINE
MINISTRY
AND EN

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDON

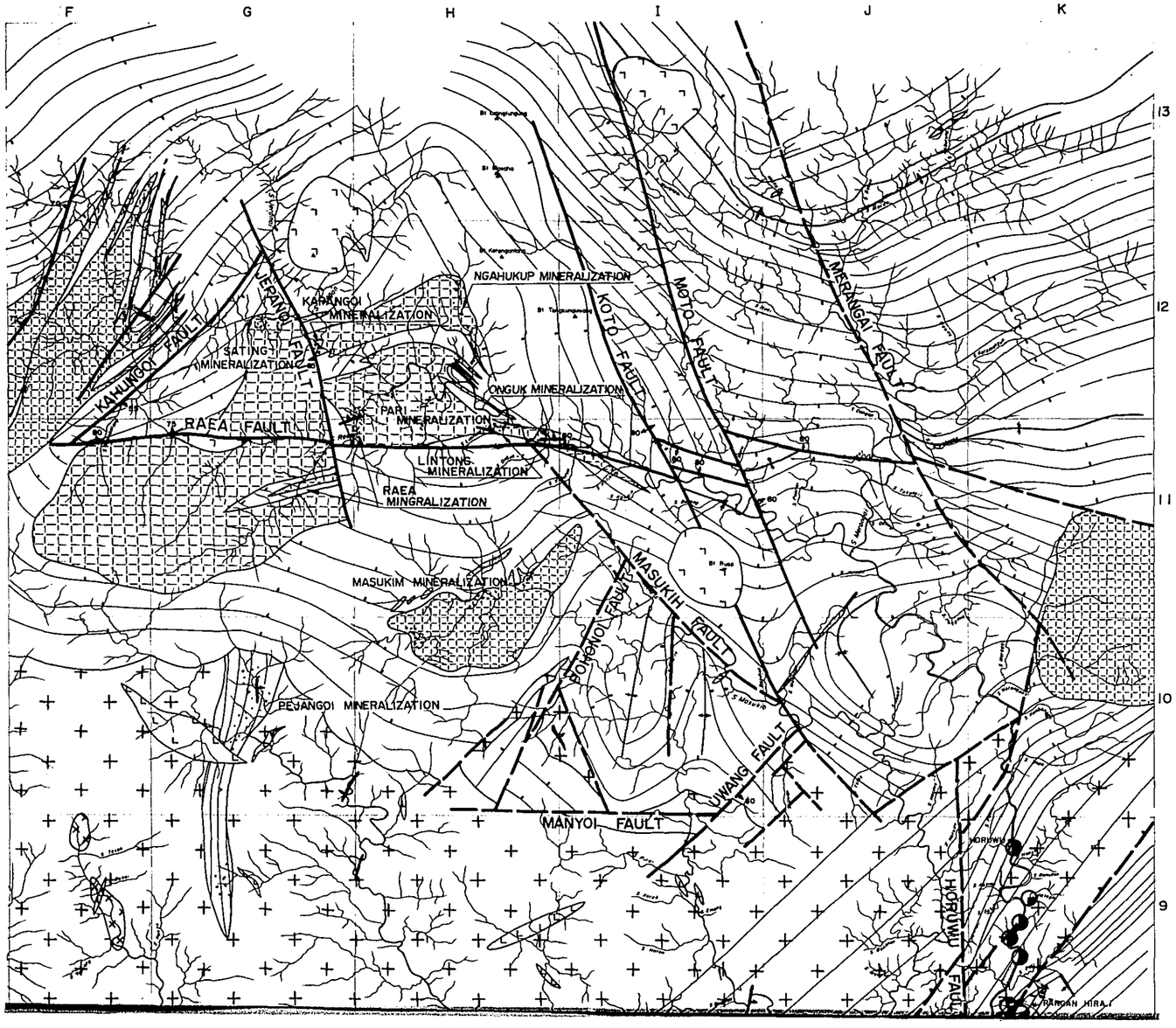
MAP OF RADIOMETRIC ANO

Scale 1: 100,000

0 2 4 6



February 1979



PL. 9

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

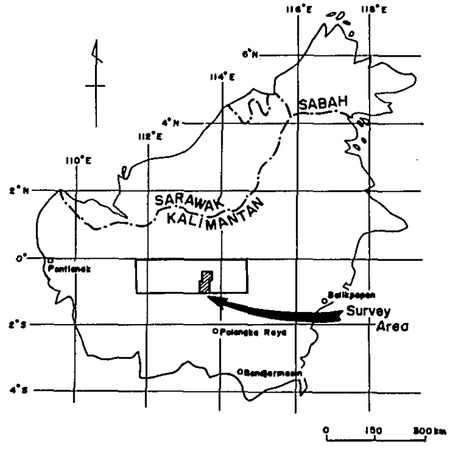
GEOLOGICAL SURVEY OF INDONESIA
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

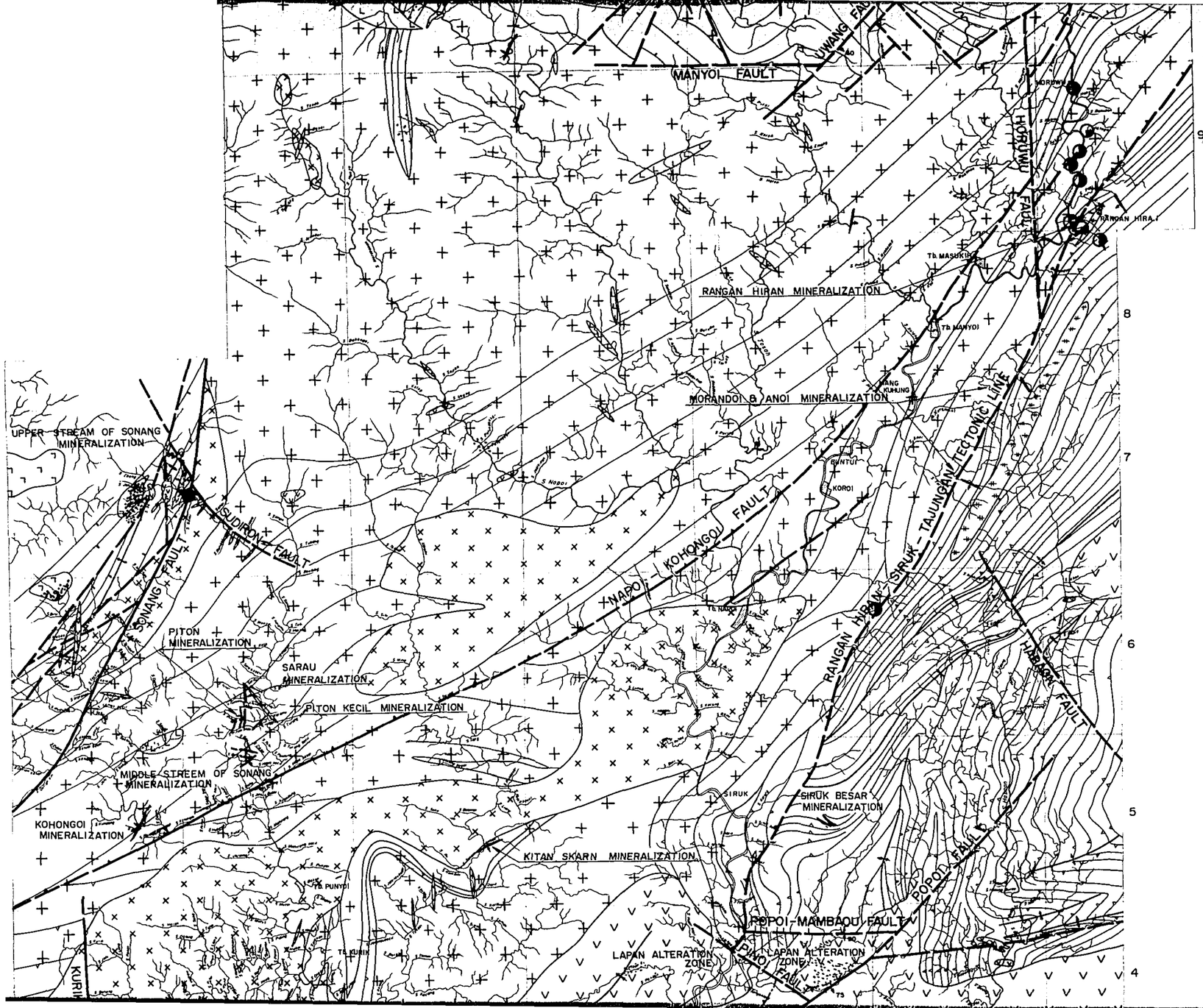
MAP OF RADIOMETRIC ANOMALIES

Scale 1:100,000

0 2 4 6 8km



February · 1979



February · 1979

LEGEND

Younger Intrusive Rocks — Tertiar

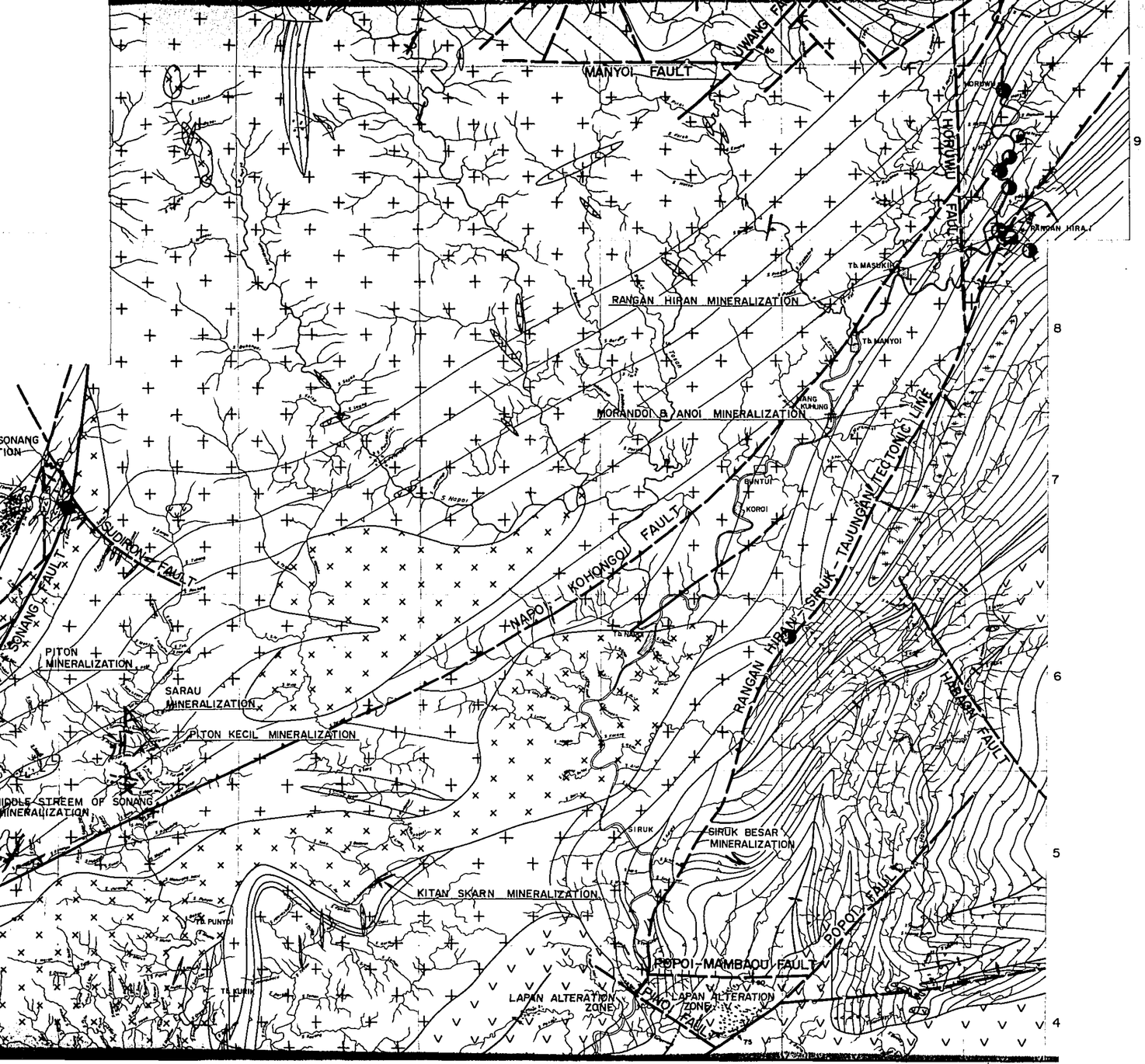
- Dikes (Pyroxen andesite, Rhyolite Felsite)
- S
- Hornblende-biotite dacite ~ dacite porphyry
- Granodiorite-porphyrite
- Diorite, Diorite-porphyrite, Quartz diorite, Quartz diorite pophyrite

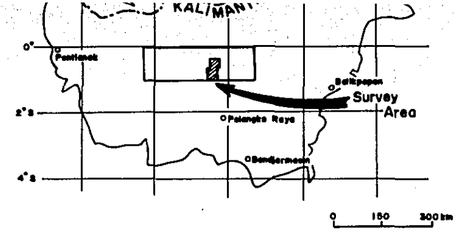
Tonalite Granodiorite Complex

- Hornblende-biotite dacite
- Hornhonde granodiorite
  Leucocratic biotite granodiorite
- Hornblende tonalite (massive)
  Hornblende tonalite (gneissose)
  Tonalite gneiss

Geological stracture

- Strike line and dip of bedding in sedime





February · 1979

L E G E N D

Younger Intrusive Rocks

Dikes (Pyroxen andesite, Rhyolite Felsite)

Hornblende-biotite dacite ~ dacite porphyry

Granodiorite - porphyrite

Diorite , Diorite - porphyrite , Quartz diorite , Quartz diorite pophyrite

Tertiary Volcanic Member

Sian Andesite Formation

Tonalite Granodiorite Complex

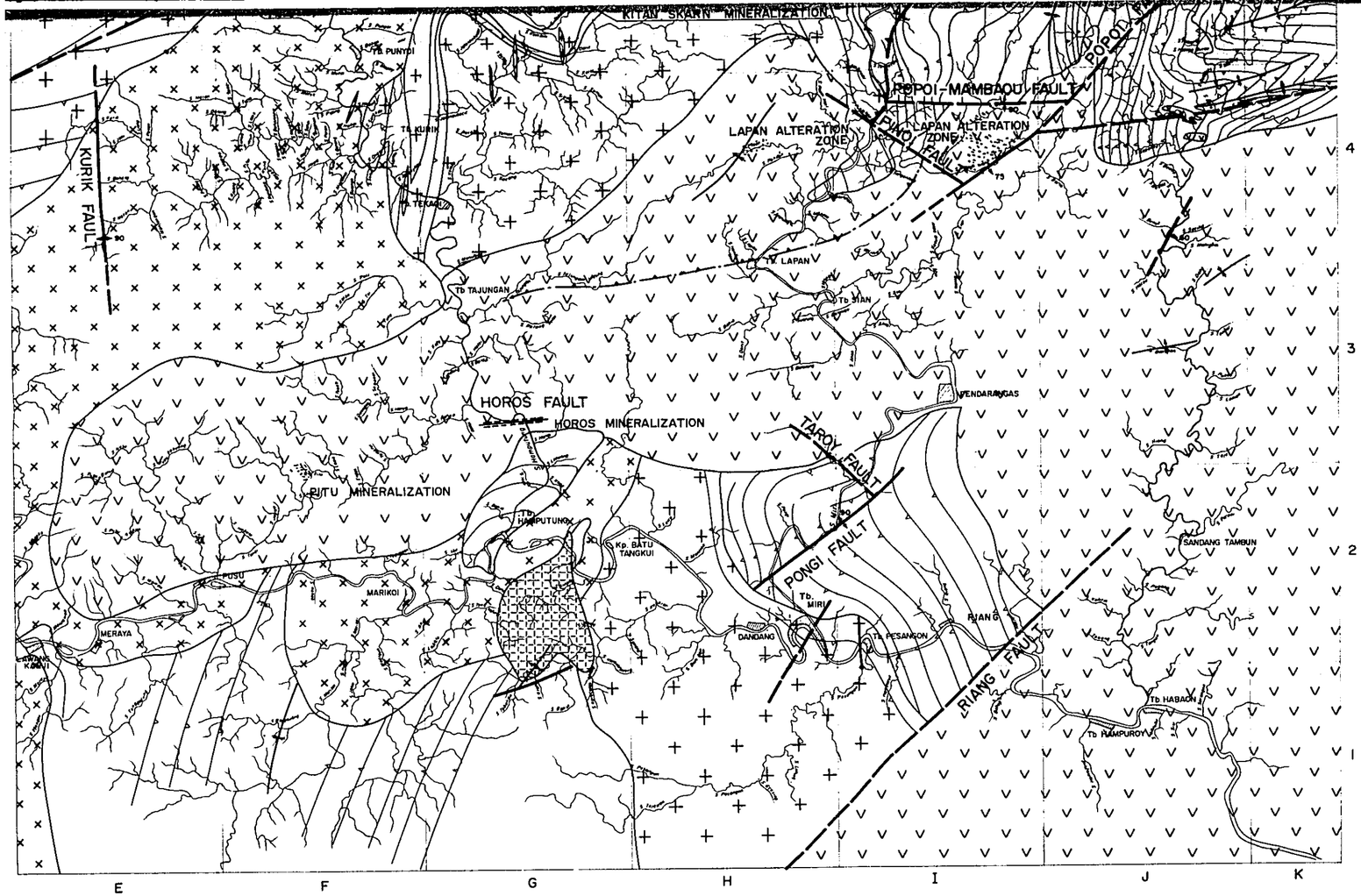
Hornblende-biotite dacite

Hornhonde granodiorite
Leucocratic biotite granodiorite

Hornblende tonalite (massive)
Hornblende tonalite (gneissose)
Tonalite gneiss

Geological stracture

Strike line and dip of bedding in sedimentary rocks



LEGEND

15 $^{\mu R/h}$ ≦ ◔ < 29 $^{\mu R/h}$	
29 " ≦ ◑ < 58 "	
58 " ≦ ●	

Hornblende tonalite (gneissose)
Tonalite gneiss

Geological stracture

Strike line and dip of bedding in sedi

Strike line and dip of gneissosity in g

Strike line and dip of gneissosity and s in metamorphic rocks

Anticlinal axis

Synclinal axis

Normal fault confirmed

Normal fault inferred

Reverse fault confirmed

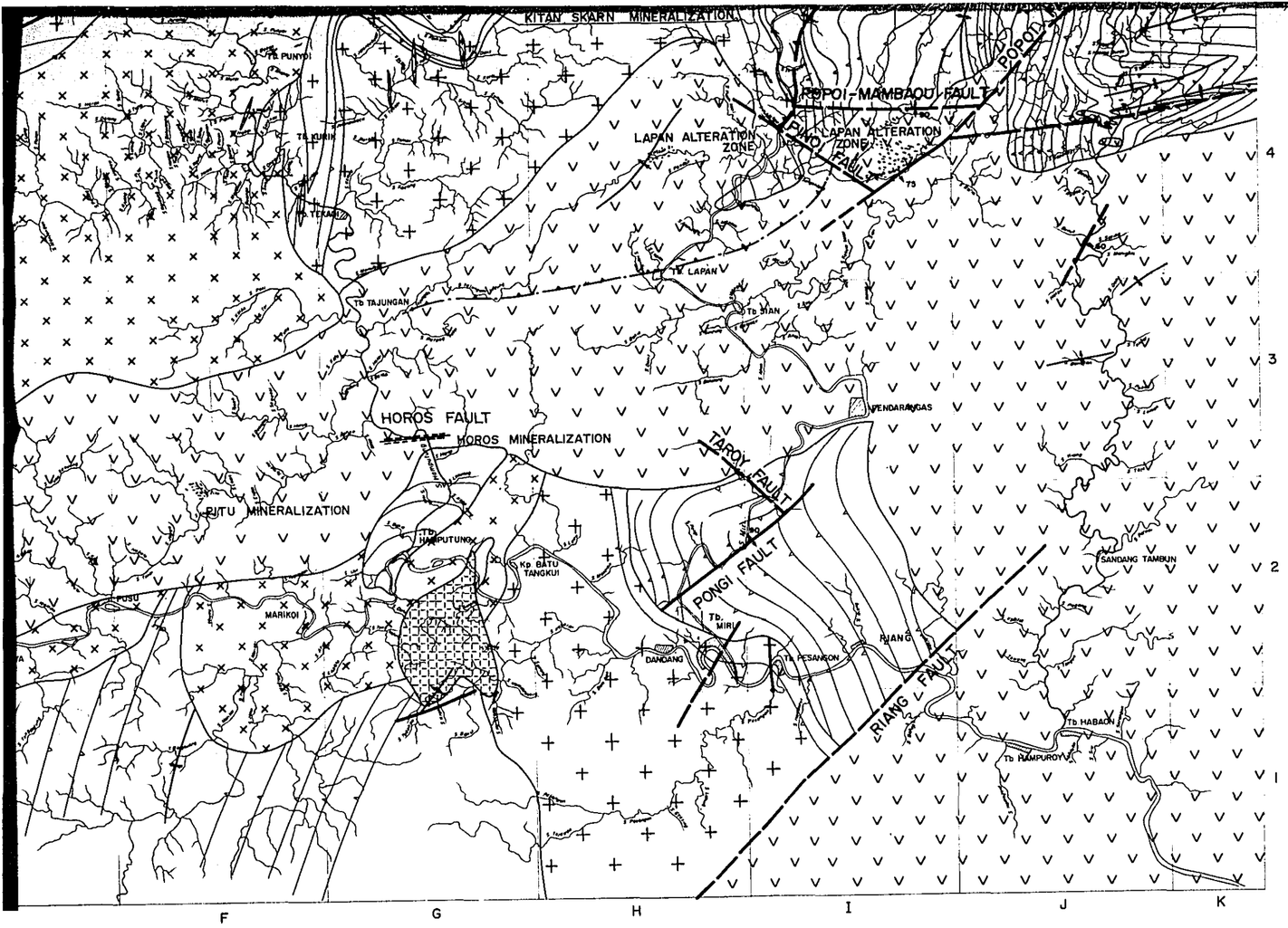
Reverse fault inferred

Reverse fault inferred in basement ro

Mineralization

Metalliferous vein , Ore bed , Qua

Disseminated zone of minerals



LEGEND

15 $^{\mu R}/_{h}$ ≦ ◔ < 29 $^{\mu R}/_{h}$	
29 " ≦ ◑ < 58 "	
58 " ≦ ●	

Hornblende tonalite (gneissose)

Tonalite gneiss

Geological stracture

- Strike line and dip of bedding in sedimentary rocks
- Strike line and dip of gneissosity in gneissose tonalites
- Strike line and dip of gneissosity and schistosity in metamorphic rocks
- Anticlinal axis
- Synclinal axis
- Normal fault confirmed
- Normal fault inferred
- Reverse fault confirmed
- Reverse fault inferred
- Reverse fault inferred in basement rocks

Mineralization

- Metalliferous vein , Ore bed , Quartz vein
- Disseminated zone of minerals

PL.10

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

GEOLOGICAL SURVEY OF INDONESIA

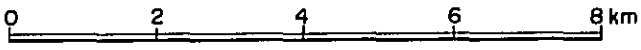
DIRECTORATE GENERAL OF MINES

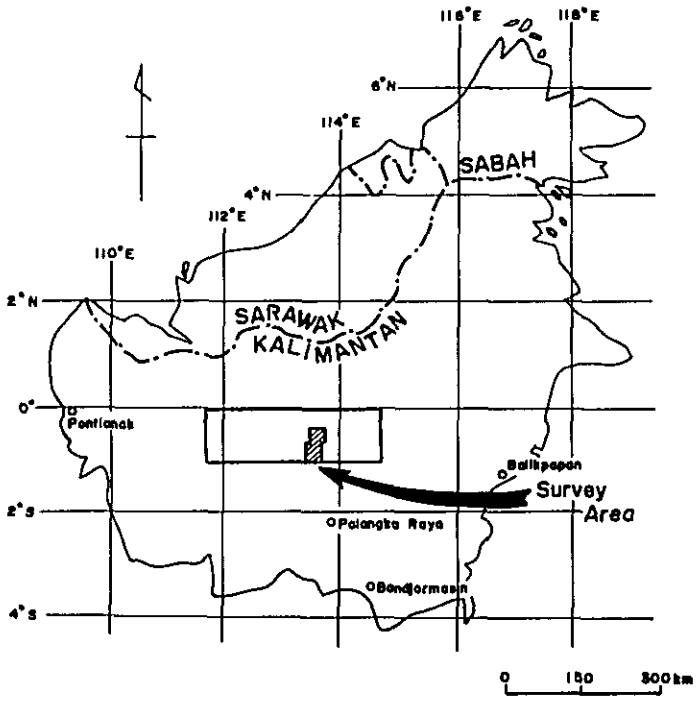
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

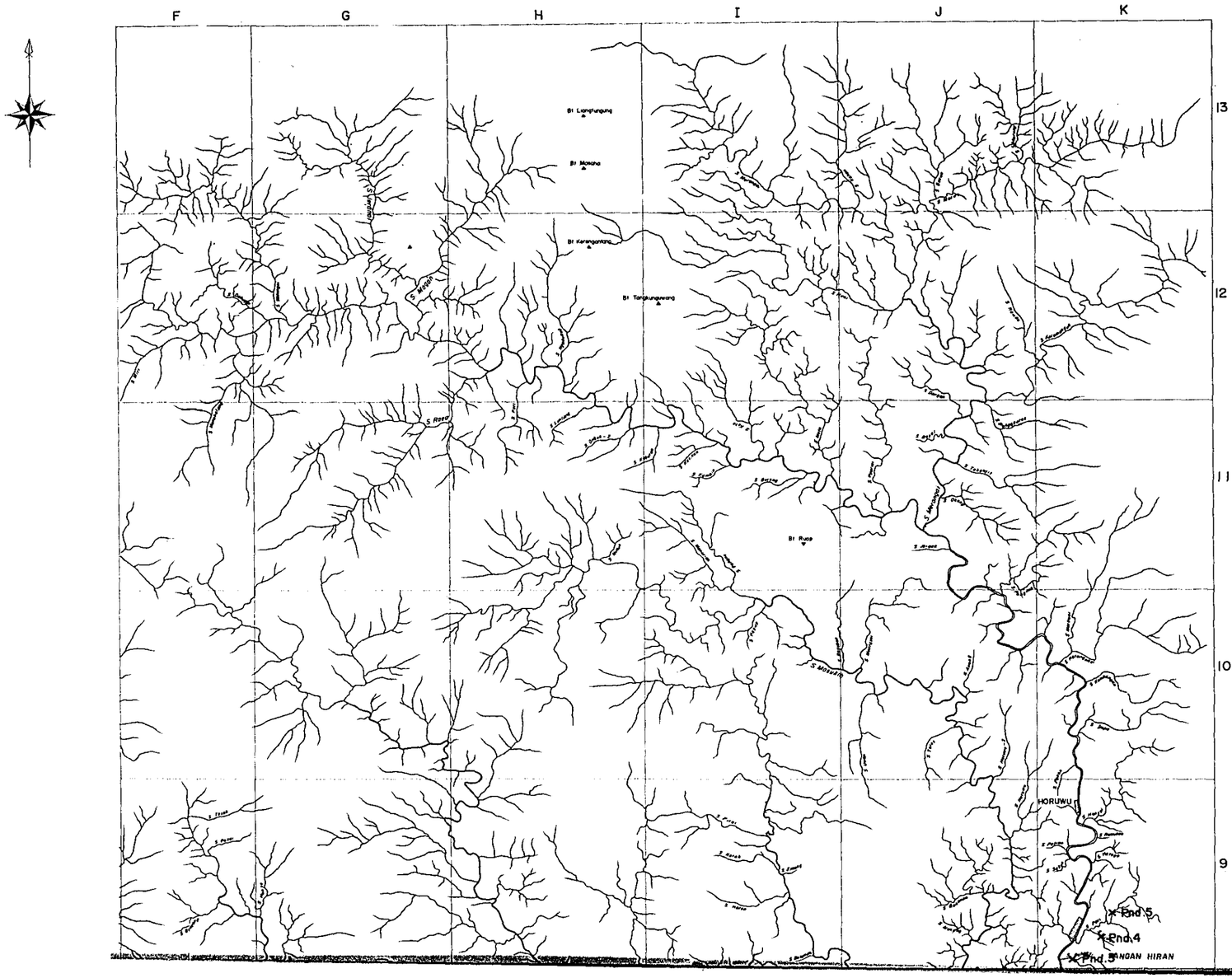
MAP OF PLACER GOLD PROSPECTING

Scale 1: 100,000





February · 1979



METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

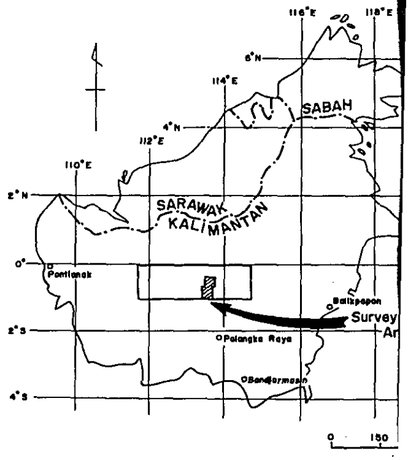
— GEOLOGICAL OF INDON DIRECTORATE OF MINES MINISTRY O AND ENER

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONES

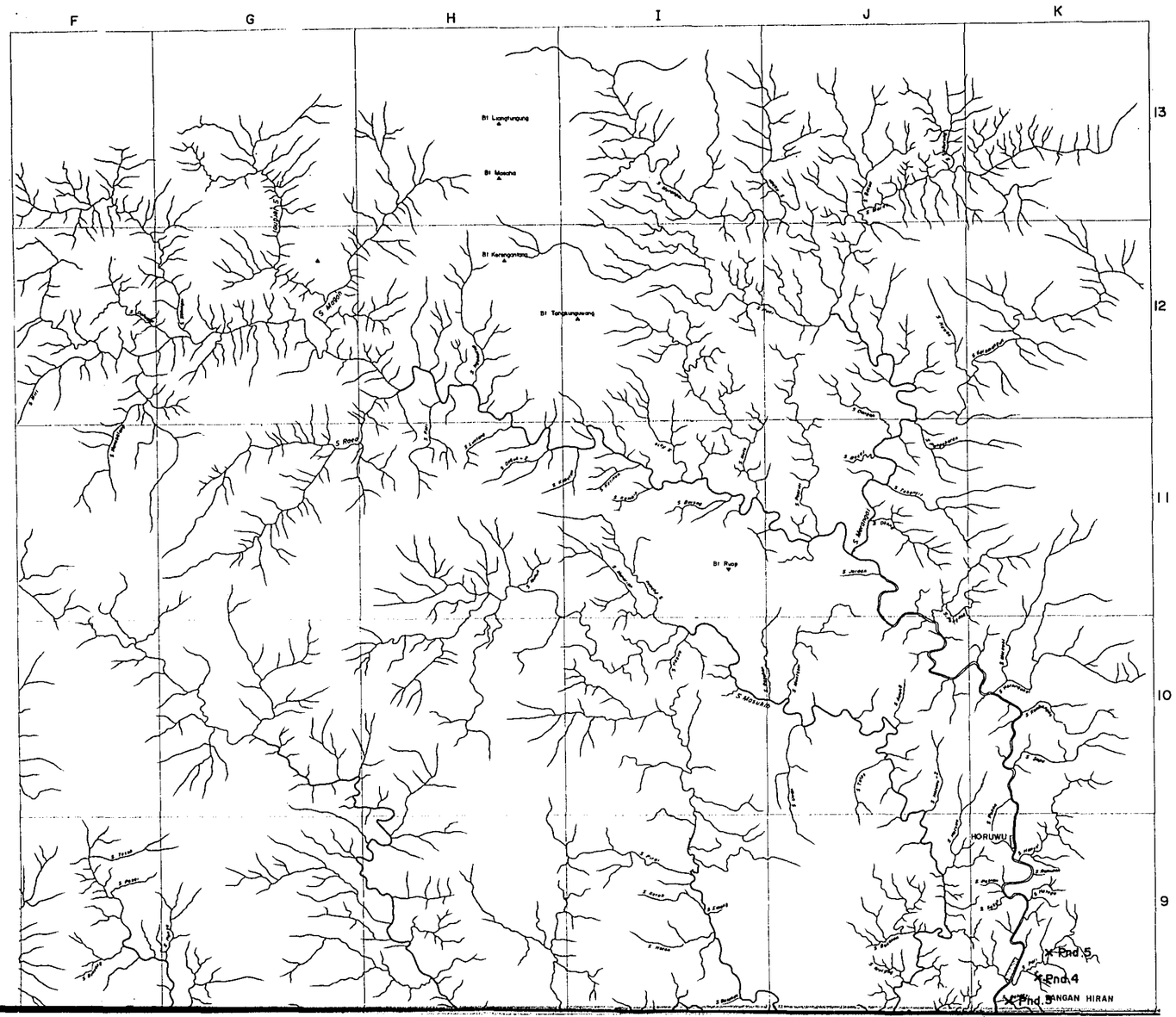
MAP OF PLACER GOLD PROSPECTIN

Scale 1: 100,000

0 2 4 6



February , 1979



PL.10

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

—

GEOLOGICAL SURVEY OF INDONESIA

DIRECTORATE GENERAL OF MINES

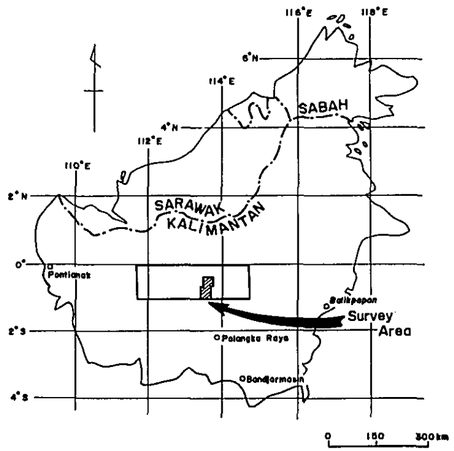
MINISTRY OF MINES AND ENERGY

GEOLOGICAL SURVEY OF CENTRAL KALIMANTAN INDONESIA

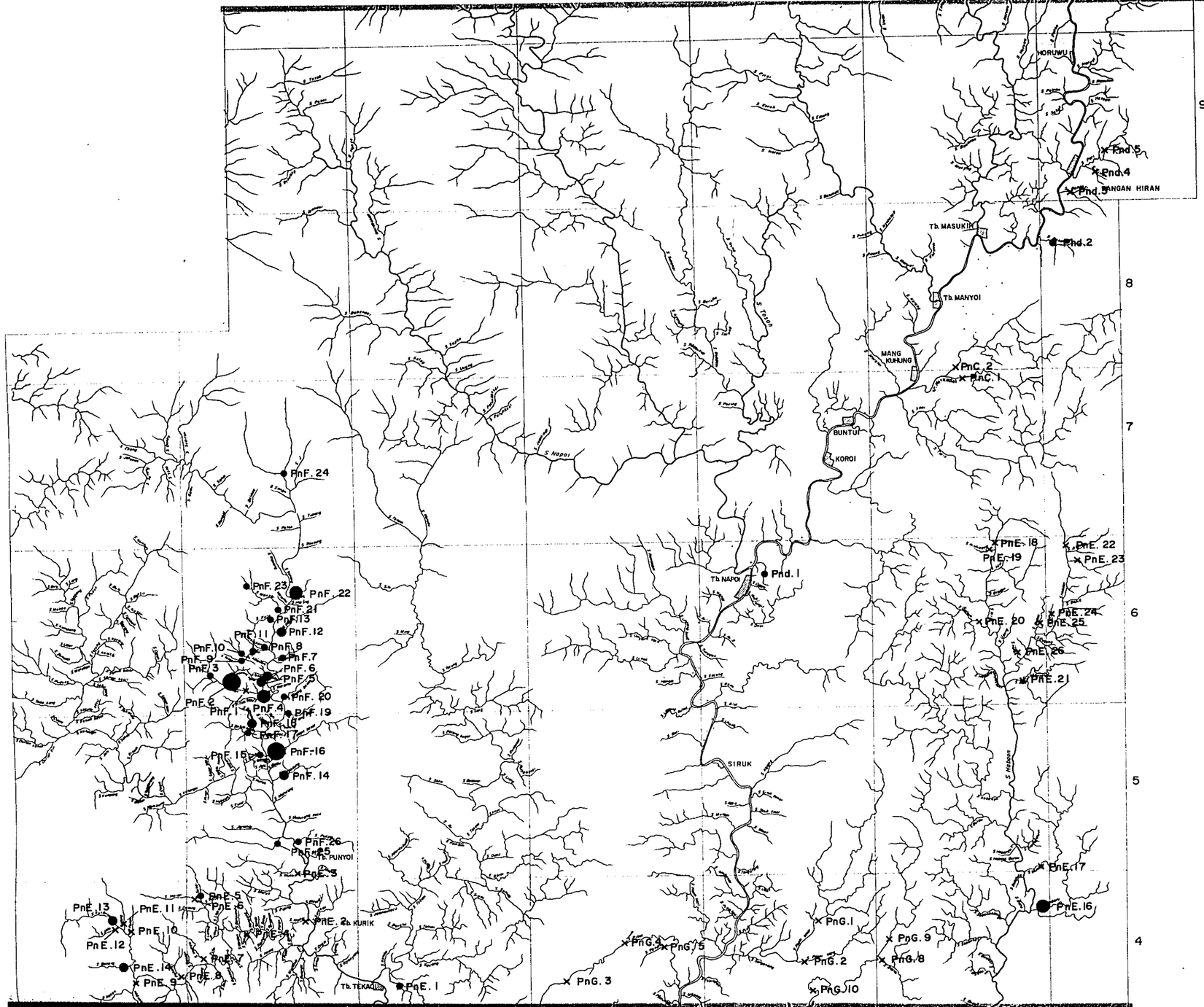
MAP OF PLACER GOLD PROSPECTING

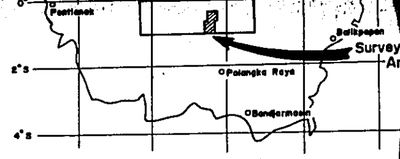
Scale 1: 100,000

0 2 4 6 8 km



February · 1979





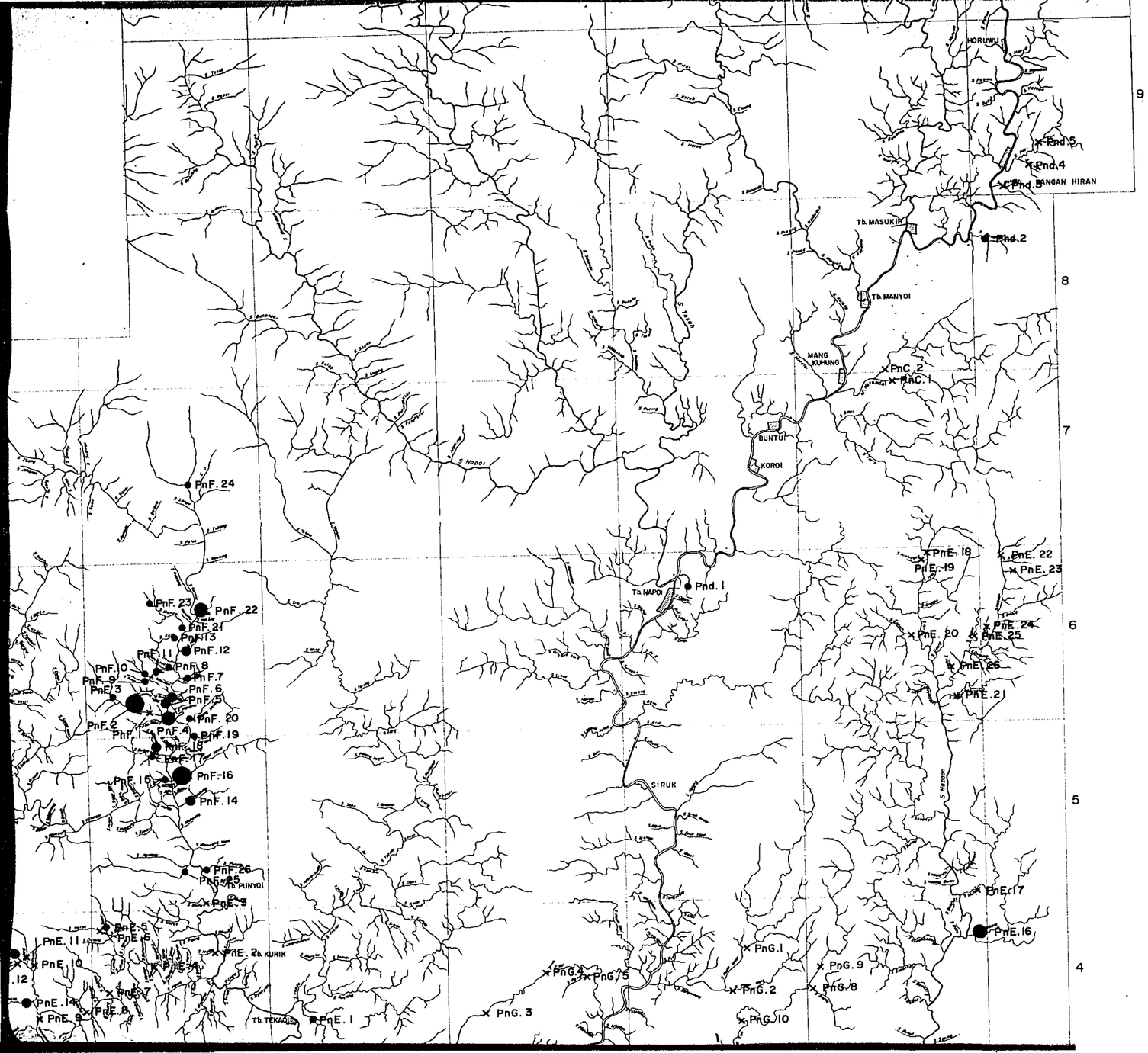
February · 1979

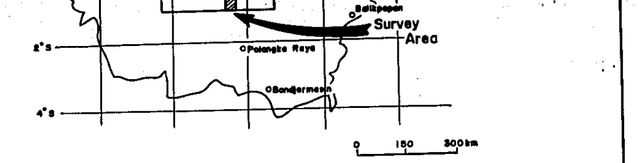
LEGEND

GOLD CONTENT IN TOTAL COLORS

ALLUVIAL "MEGASCOPIC DETERMI

×	0
•	1 ~ 20
●	21 ~ 40
●	41 ~ 60
●	> 60



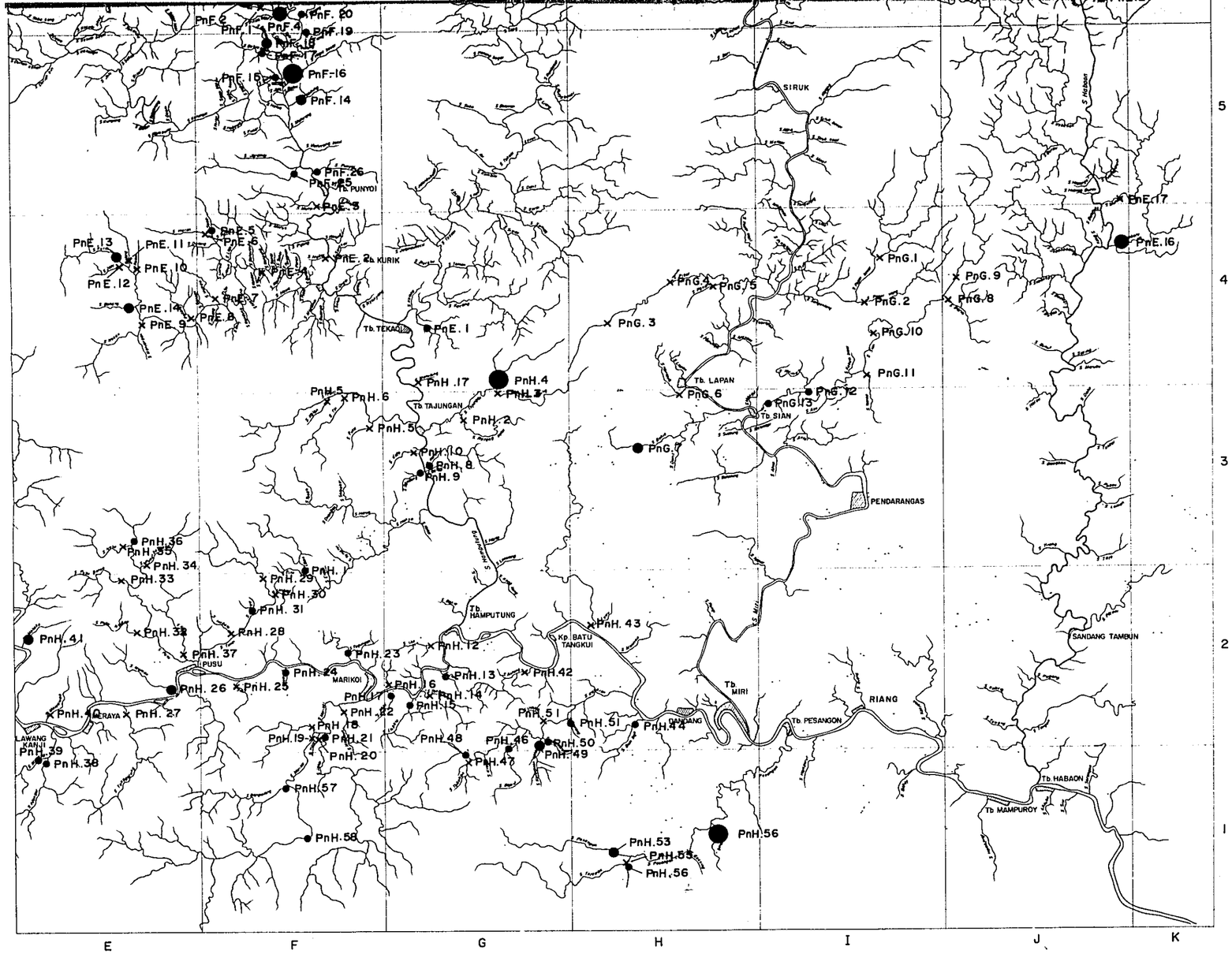


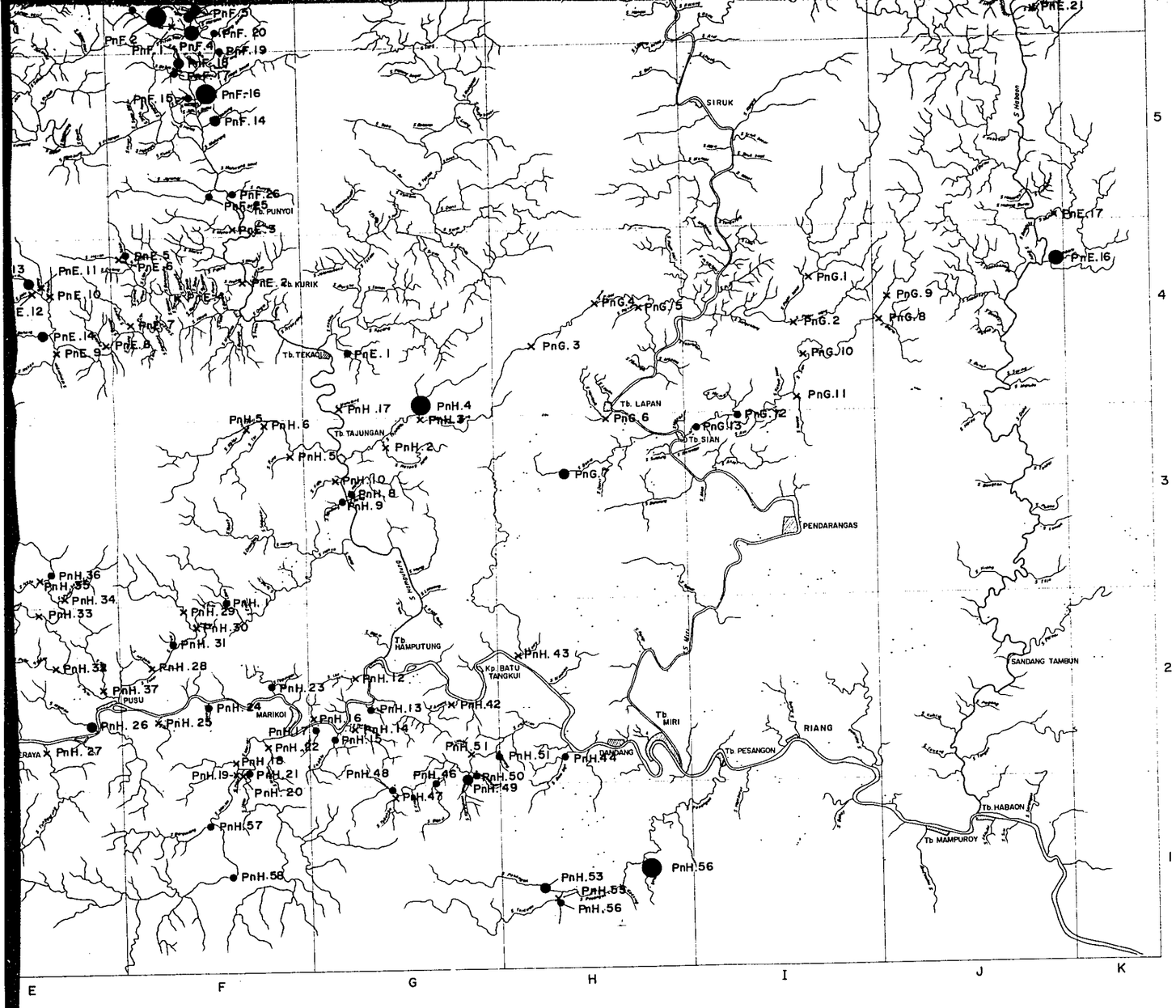
February · 1979

LEGEND

GOLD CONTENT IN TOTAL COLORS IN ALLUVIAL "MEGASCOPIC DETERMINATION"

×	0
•	1 ~ 20
●	21 ~ 40
●	41 ~ 60
●	> 60


PnF.6
PnF.20
PnF.1
PnF.4
PnF.19
PnF.18
PnF.17
PnF.15
PnF.16
PnF.14
PnF.26
PnF.25
Tb. PUNYOI
PnE.5
PnE.13
PnE.11
PnE.6
PnE.2
Tb. KURIK
PnE.10
PnE.4
PnE.12
PnE.7
PnE.14
PnE.8
PnE.9
Tb. TEKADU
PnE.1
PnH.17
PnH.4
PnH.3
PnH.5
PnH.6
Tb TAJUNGAN
PnH.2
PnH.5
PnH.10
PnH.8
PnH.9
PnH.36
PnH.35
PnH.34
PnH.33
PnH.1
PnH.29
PnH.30
PnH.31
PnH.41
PnH.32
PnH.28
PnH.37
PUSU
PnH.23
PnH.12
PnH.24
MARIKOI
PnH.26
PnH.25
PnH.16
PnH.13
PnH.42
PnH.17
PnH.18
PnH.40
PERAYA
PnH.27
PnH.22
PnH.15
PnH.51
PnH.51
PnH.44
PnH.19
PnH.21
PnH.48
PnH.46
PnH.50
PnH.49
PnH.20
PnH.47
LAWANG KANJI
PnH.39
PnH.38
PnH.57
PnH.58
PnH.53
PnH.55
PnH.56
PnH.56
PnG.4
PnG.5
PnG.1
PnG.9
PnG.2
PnG.8
PnG.3
PnG.10
PnG.11
Tb. LAPAN
PnG.6
PnG.12
PnG.13
Tb. SIAN
PnG.7
SIRUK
PnE.17
PnE.16
PENDARANGAS
Tb HAMPUTUNG
Kp. BATU TANGKUI
PnH.43
SANDANG TAMBUN
Tb MIRI
RIANG
SANDANG
Tb. PESANGON
Tb HABAON
Tb MAMPUROY
21 ~ 40
41 ~ 60
> 60
E
F
G
H
I
J
K
5
4
3
2
1


PnF.5
PnF.6
PnF.20
PnF.1
PnF.4
PnF.19
PnF.18
PnF.17
PnF.16
PnF.15
PnF.14
PnF.26
PnF.25
Tb. PUNYOI
PnE.3
PnE.5
PnE.6
PnE.11
PnE.10
PnE.12
PnE.4
PnE.2
Tb. KURIK
PnE.7
PnE.14
PnE.8
PnE.9
Tb. TEKAL
PnE.1
PnH.17
PnH.4
PnH.3
PnH.5
PnH.6
Tb. TAJUNGAN
PnH.2
PnH.5
PnH.10
PnH.8
PnH.9
PnH.36
PnH.35
PnH.34
PnH.33
PnH.1
PnH.29
PnH.30
PnH.31
Tb HAMPUTUNG
PnH.32
PnH.28
PnH.37
PUSU
PnH.24
MARIKOI
PnH.23
PnH.12
PnH.43
Kp. BATU TANGKUI
PnH.42
PnH.13
PnH.16
PnH.14
PnH.17
PnH.15
PnH.22
PnH.26
PnH.25
PnH.27
PnH.18
PnH.19
PnH.21
PnH.20
PnH.48
PnH.46
PnH.50
PnH.49
PnH.47
PnH.51
PnH.51
PnH.44
DANDANG
Tb MIRI
Tb. PESANGON
RIANG
PnH.57
PnH.58
PnH.53
PnH.55
PnH.56
PnH.56
PnG.4
PnG.5
PnG.3
PnG.6
Tb. LAPAN
PnG.12
PnG.13
Tb. SIAN
PnG.7
PENDARANGAS
SIRUK
PnG.1
PnG.2
PnG.9
PnG.8
PnG.10
PnG.11
PnE.21
PnE.17
PnE.16
S. Habaon
SANDANG TAMBUN
Tb. HABAON
Tb MAMPUROY
E
F
G
H
I
J
K
1
2
3
4
5

21 ~ 40

41 ~ 60

> 60