

No. 33

REPORT
ON
THE COOPERATIVE MINERAL EXPLORATION
IN
THE TORAJA AREA, SULAWESI
THE REPUBLIC OF INDONESIA

PHASE II
SEPARATE VOLUME

FEBRUARY 1993

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

MPN
CR (3)
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FEBRUARY 1993

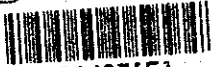
JAPAN
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METAL
AGENCY

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REPORT
ON
THE COOPERATIVE MINERAL EXPLORATION
IN
THE TORAJA AREA, SULAWESI
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PHASE II
SEPARATE VOLUME

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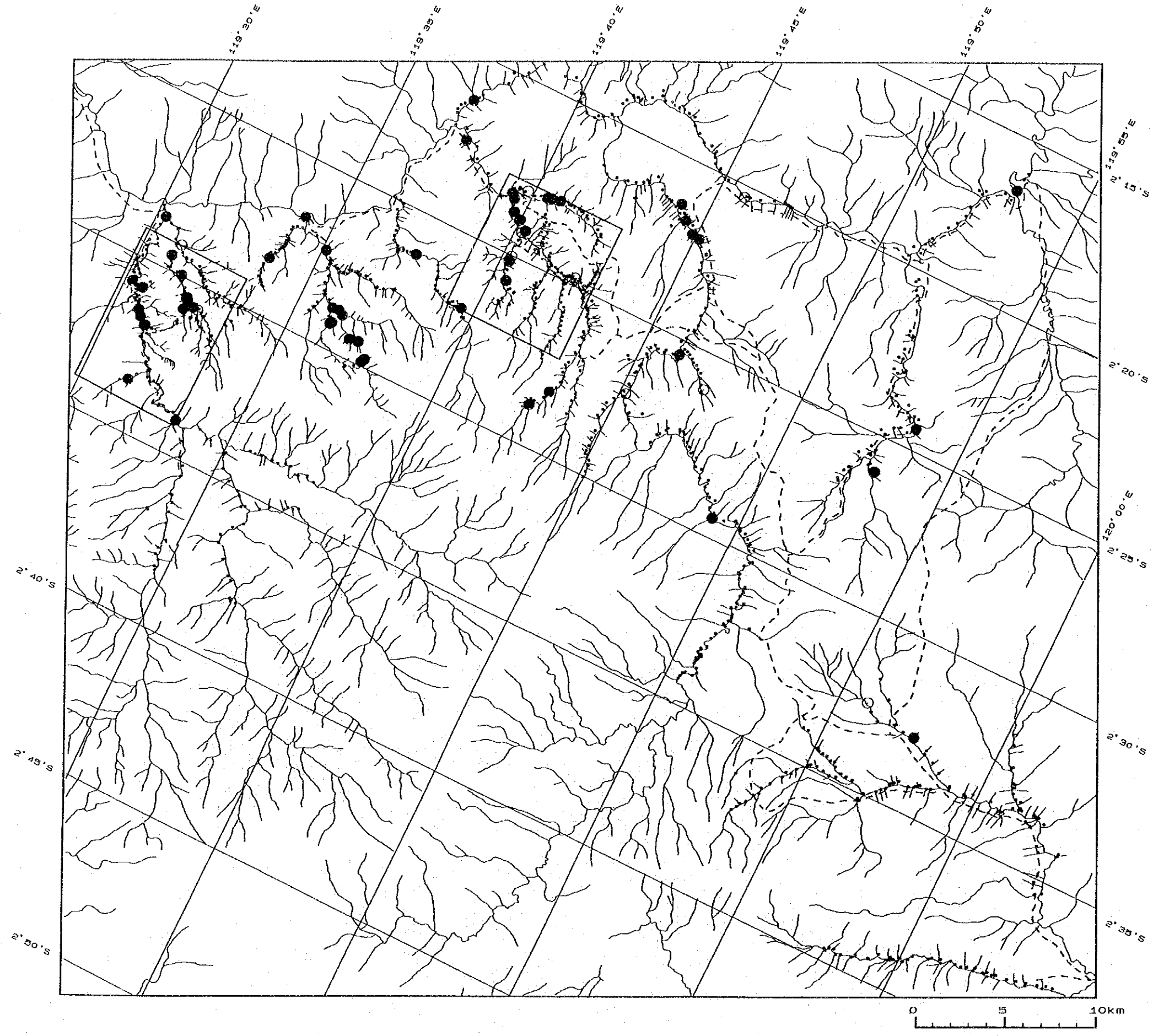
SEPARATE VOLUME

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APP. 1

Anomalies of Stream Sediment Geochemistry (Regional)

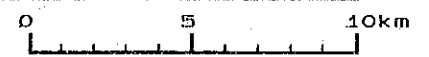


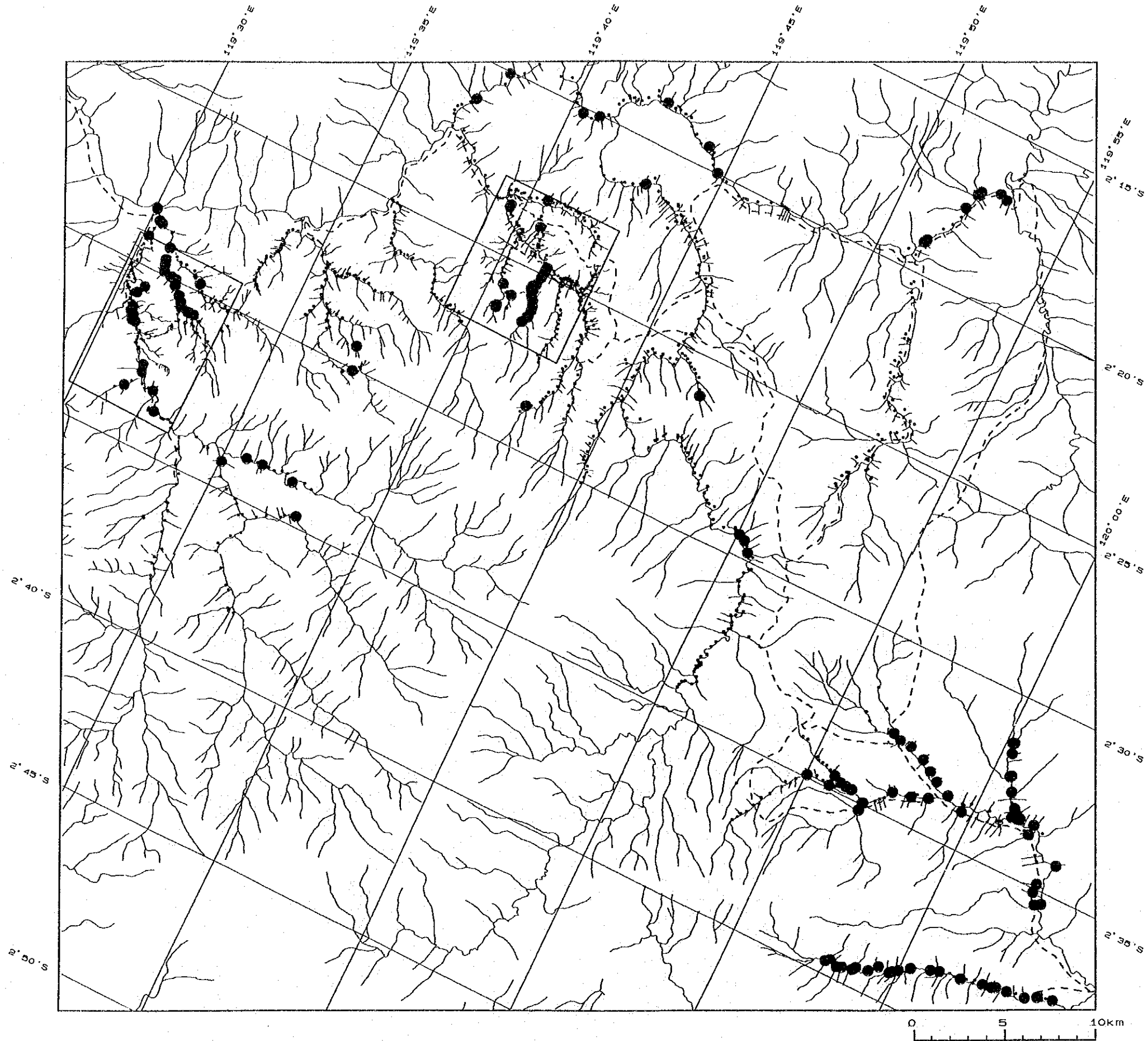
Stream Sediment Geochemistry

Au

- >21.54 ppb
- >8.24 ppb
- <8.24 ppb

----- road/track





Stream Sediment Geochemistry

Ag

- > 0.05 ppm
- > 0.04 ppm
- < 0.04 ppm

--- road/track

0 5 10km

Stream Sediment Geochemistry

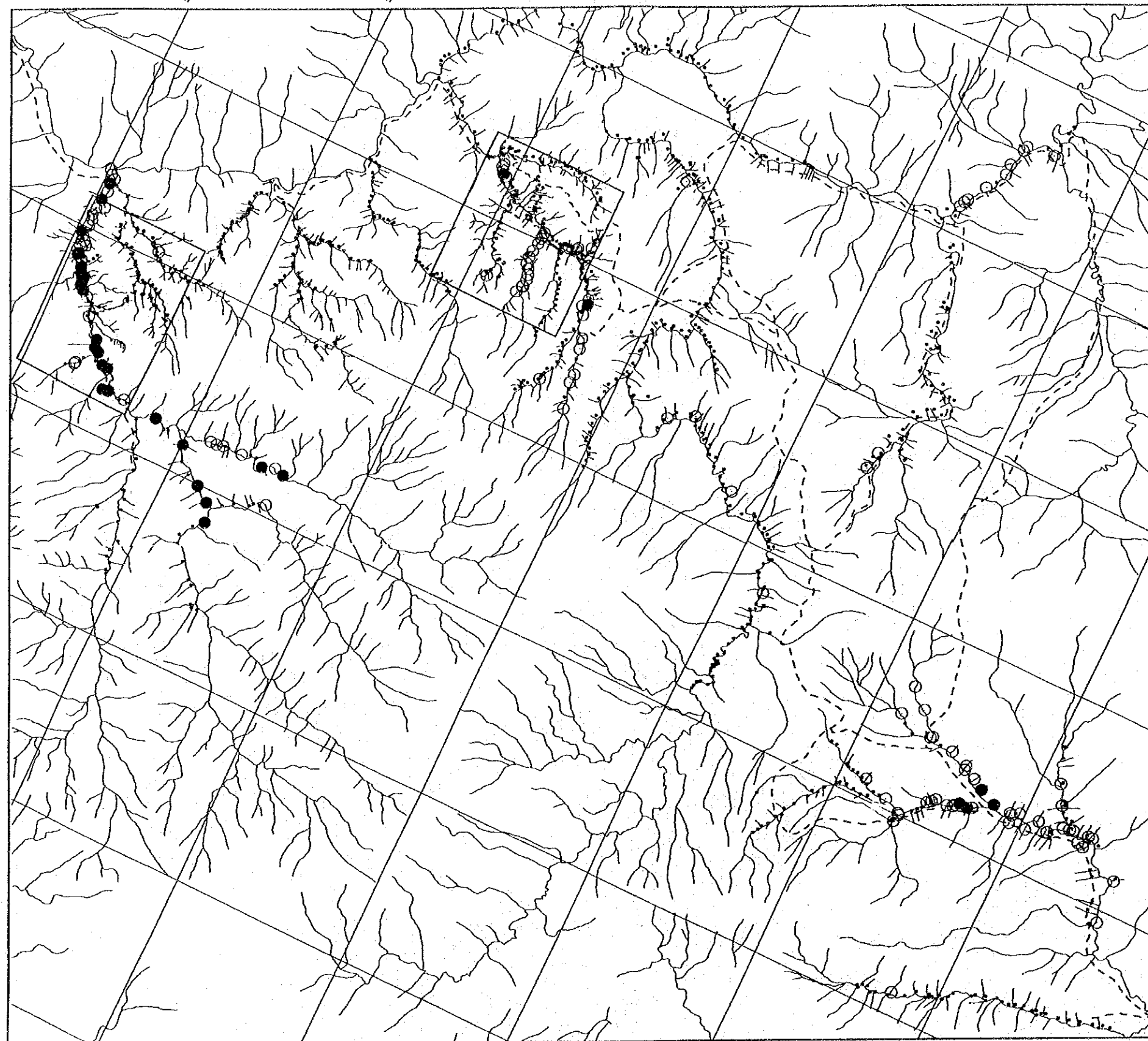
As

● >66.55 ppm

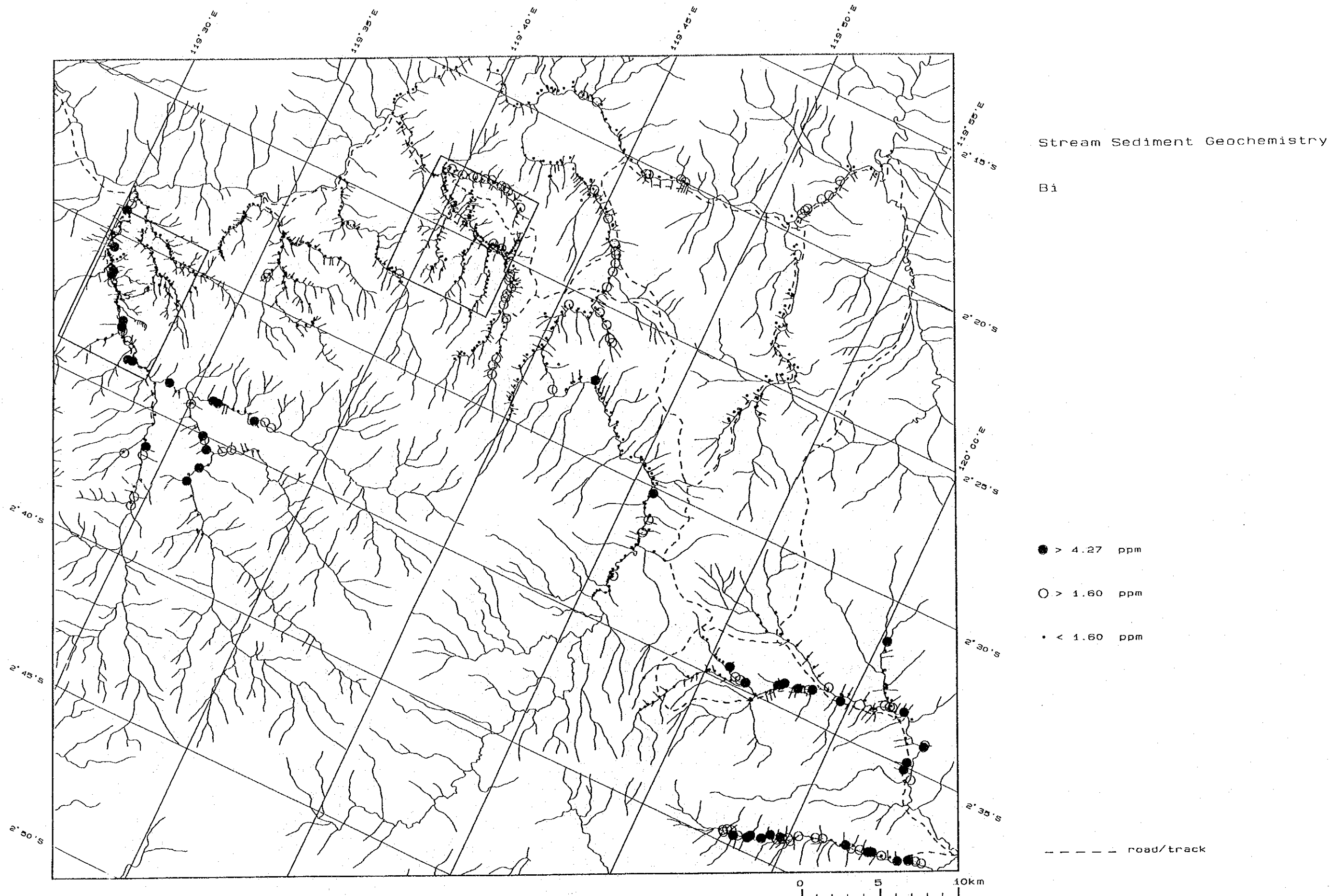
○ >20.21 ppm

• <20.21 ppm

--- road/track



0 5 10km

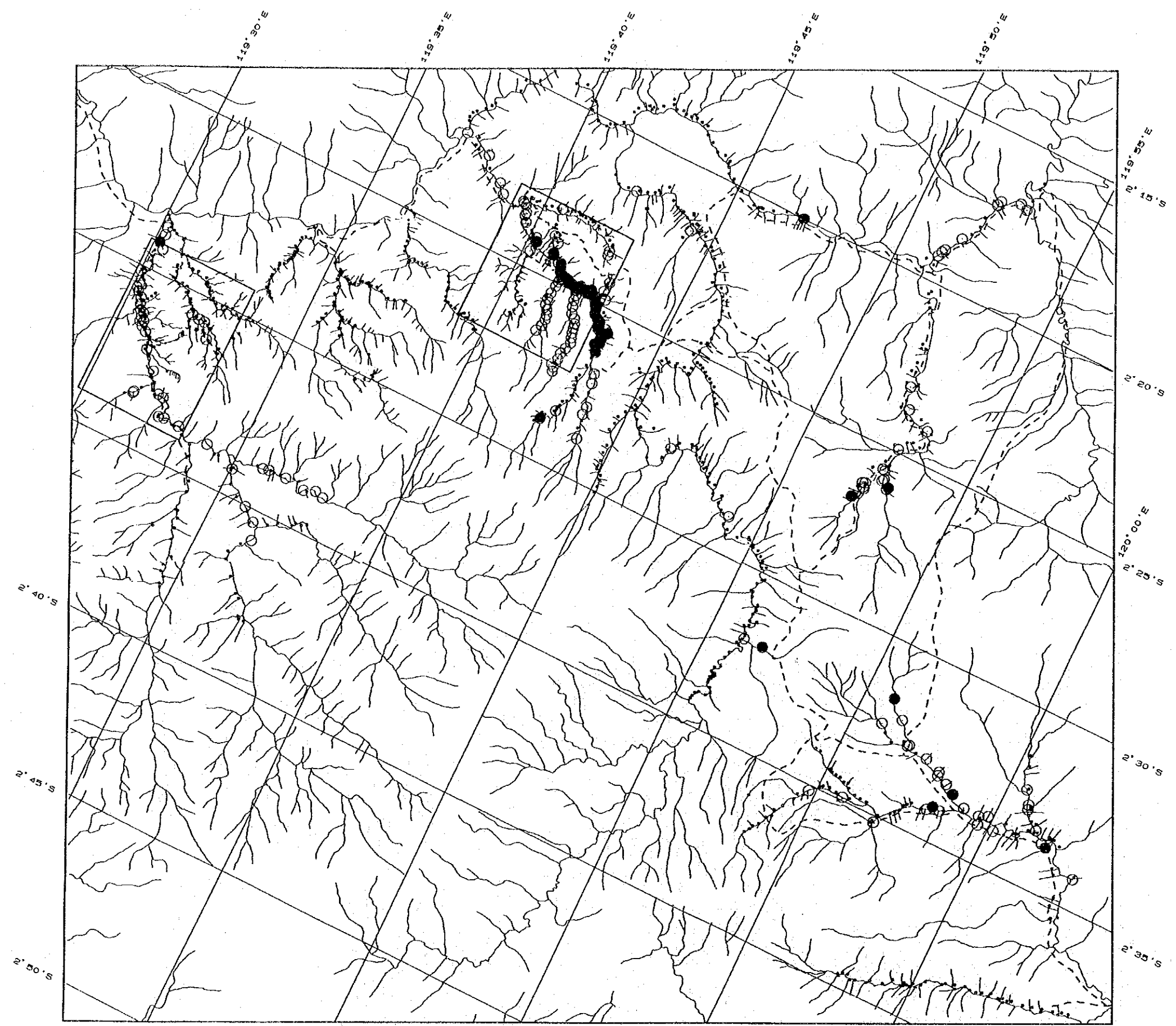
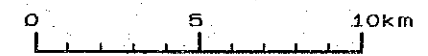


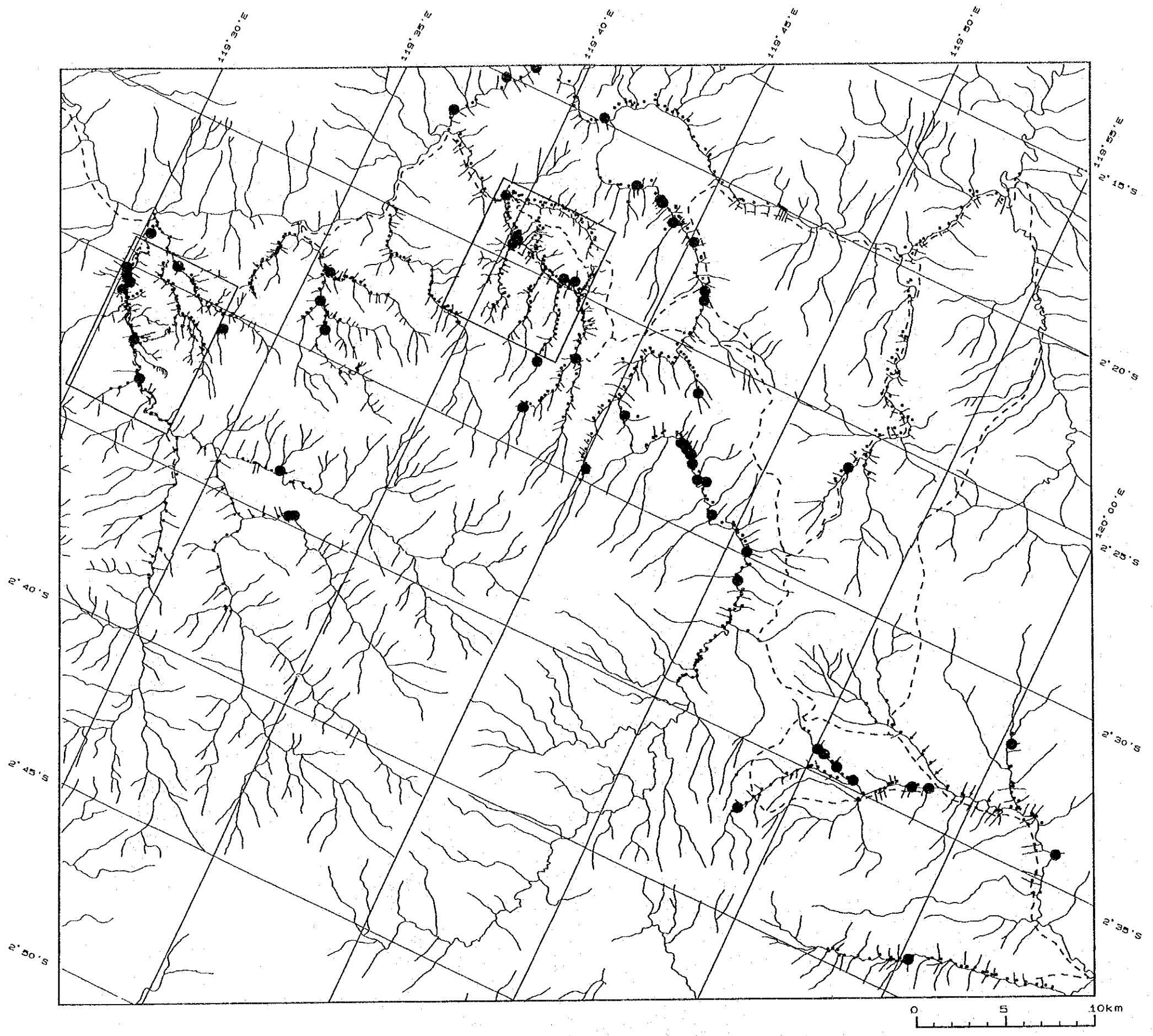
Stream Sediment Geochemistry

Sb

- > 2.33 ppm
- > 0.76 ppm
- < 0.76 ppm

--- road/track



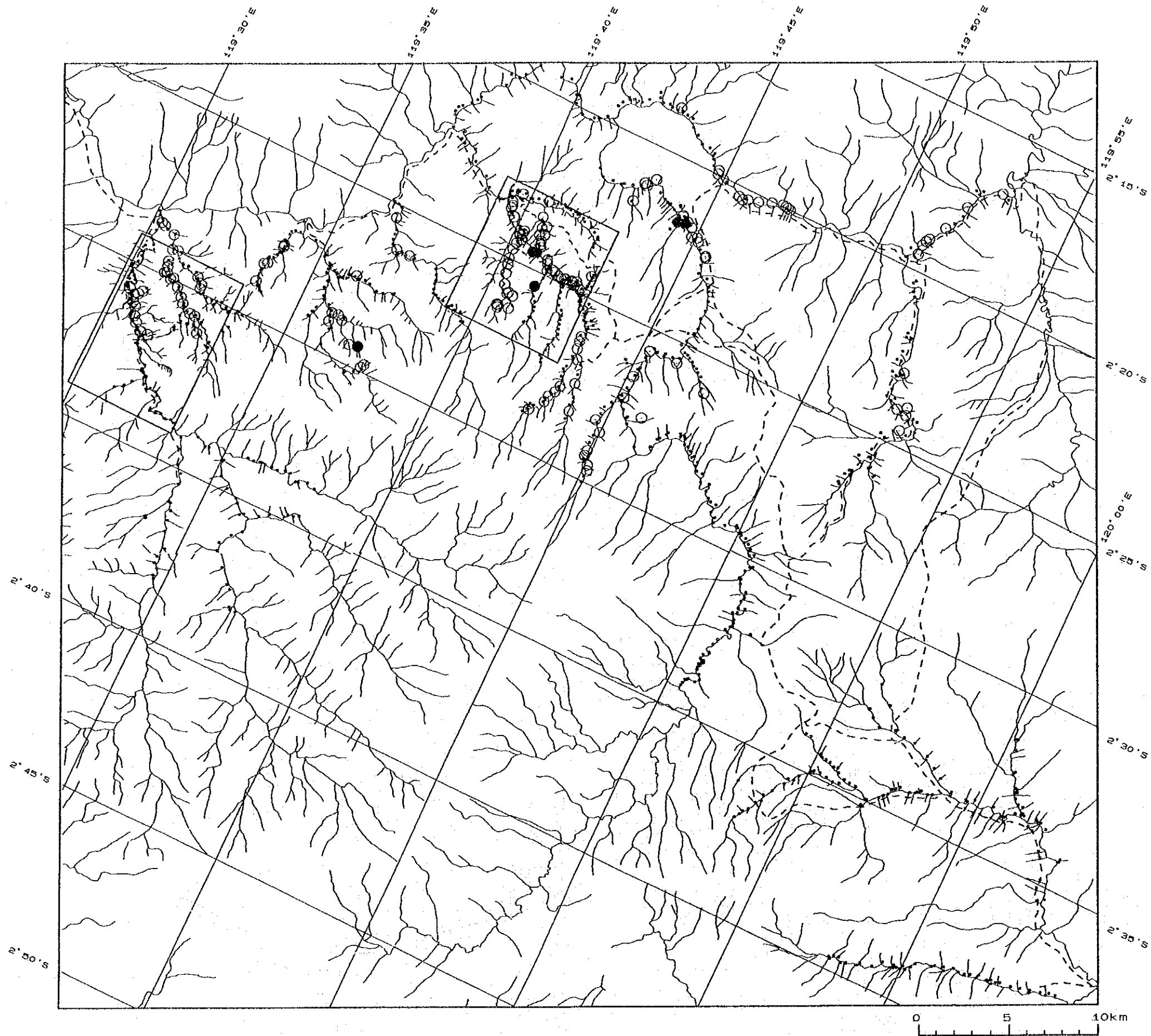


Stream Sediment Geochemistry

Hg

- > 0.19 ppm
- > 0.11 ppm
- < 0.11 ppm

----- road/track



Stream Sediment Geochemistry

Cu

- >92.39 ppm
- >38.09 ppm
- <38.09 ppm

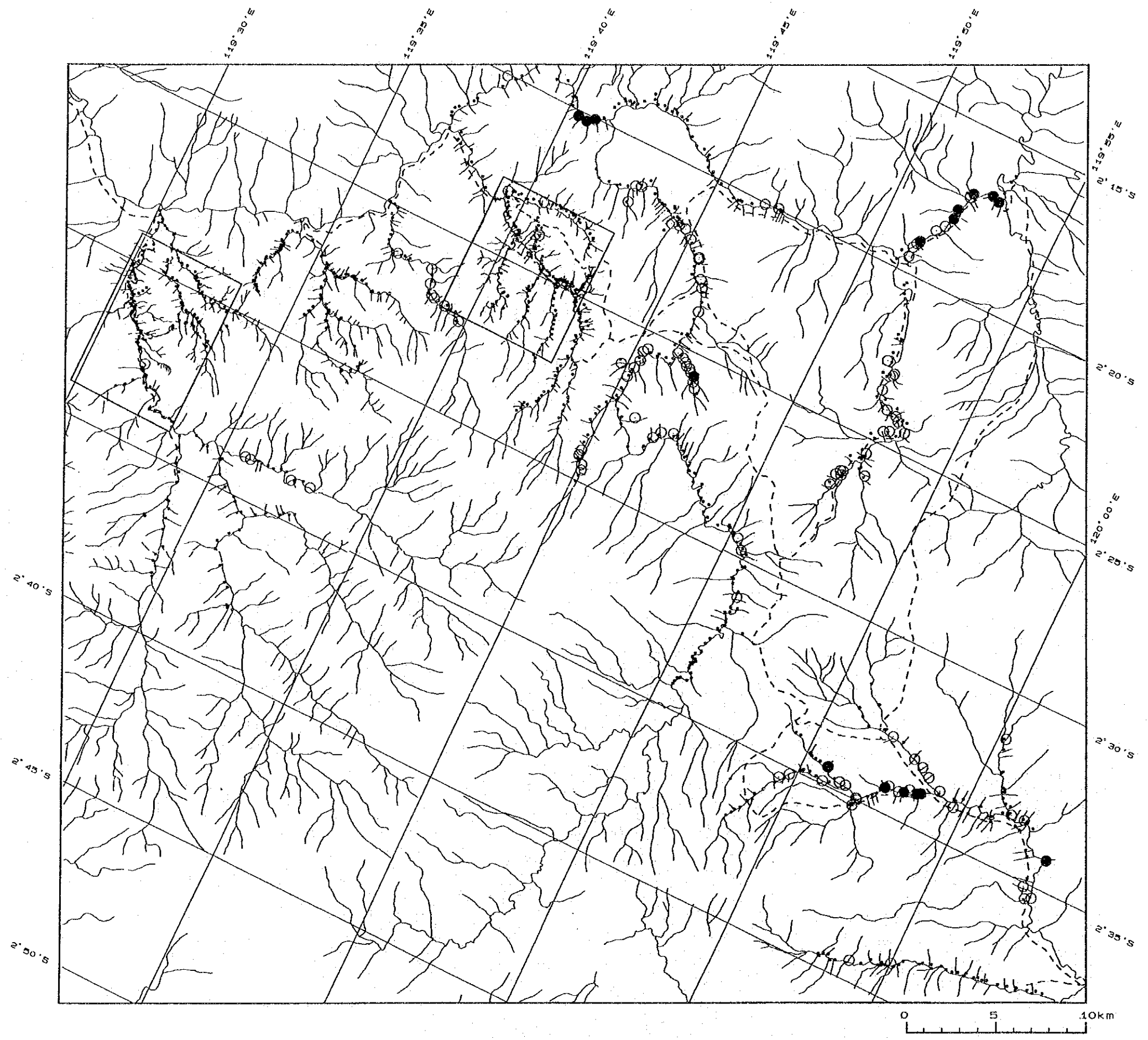
----- road/track

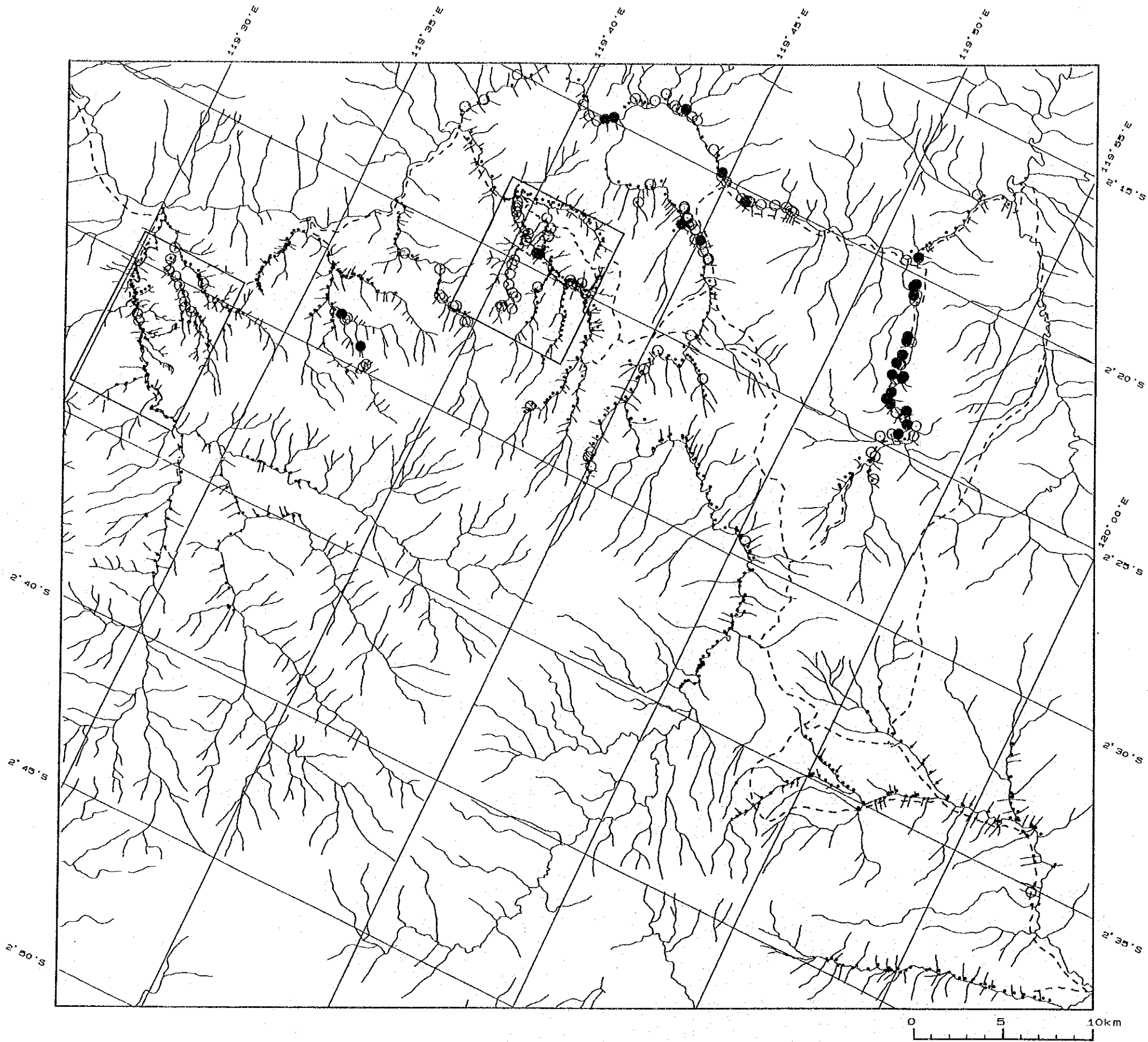
Stream Sediment Geochemistry

Pb

- >65.73 ppm
- >35.24 ppm
- <35.24 ppm

--- road/track





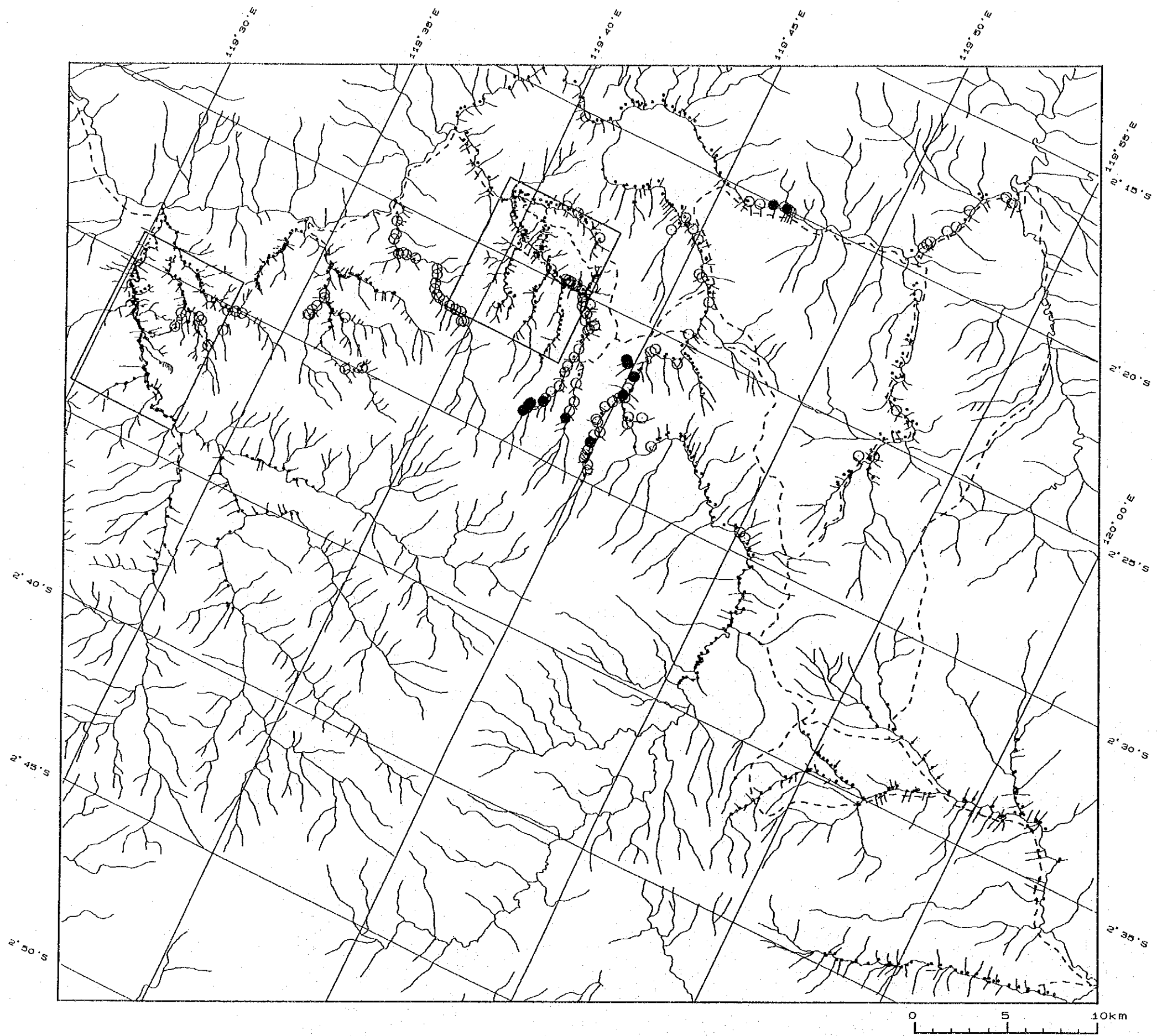
Stream Sediment Geochemistry

Zn

- >160.27 ppm
- >98.70 ppm
- <98.70 ppm

----- road/track





Stream Sediment Geochemistry

Ba

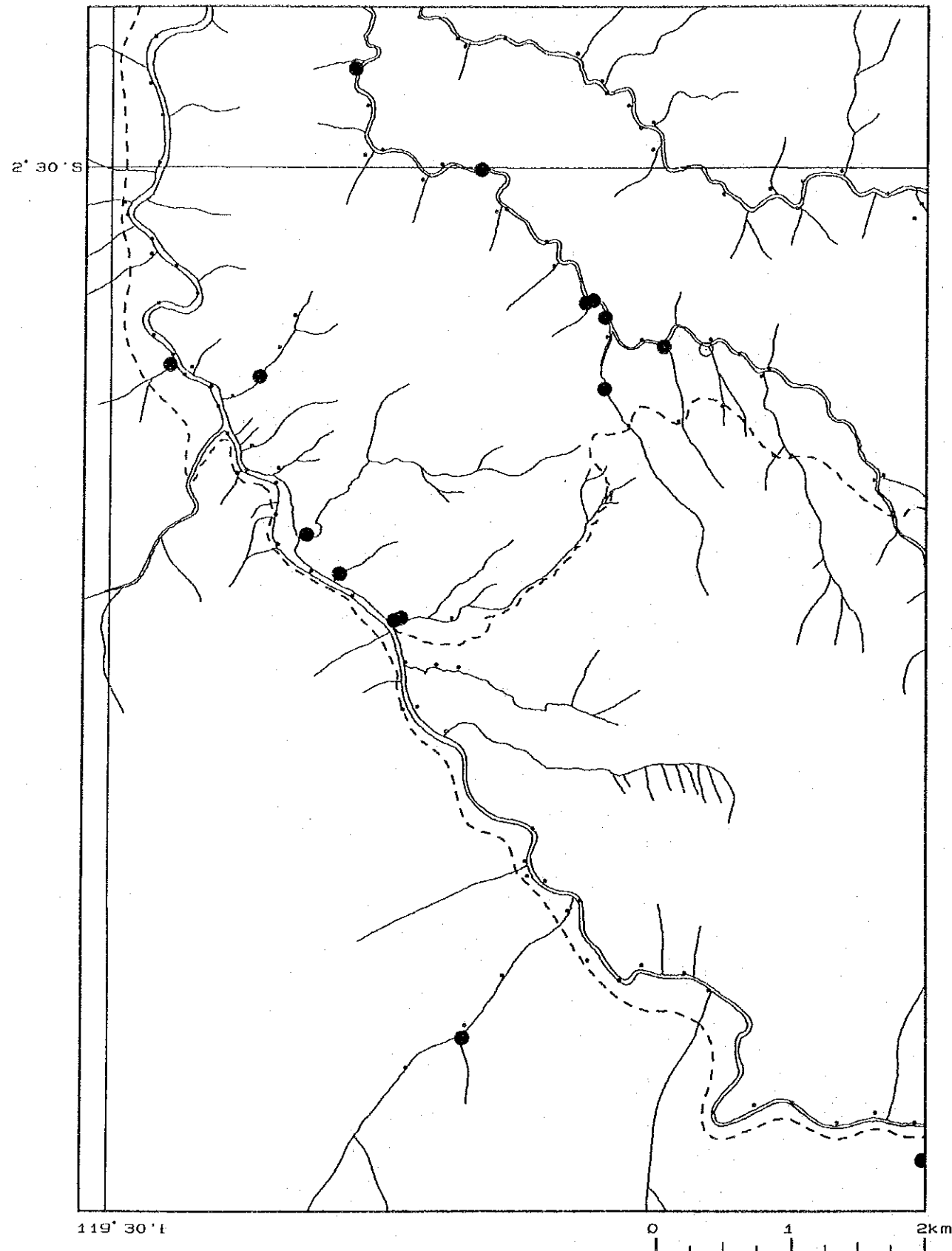
- > 3780.36ppm
- > 1883.15ppm
- < 1883.15ppm

----- road/track

APP. 2

Anomalies of Stream Sediment
Geochemistry (Batuisi Prospect)

Batuisi Area



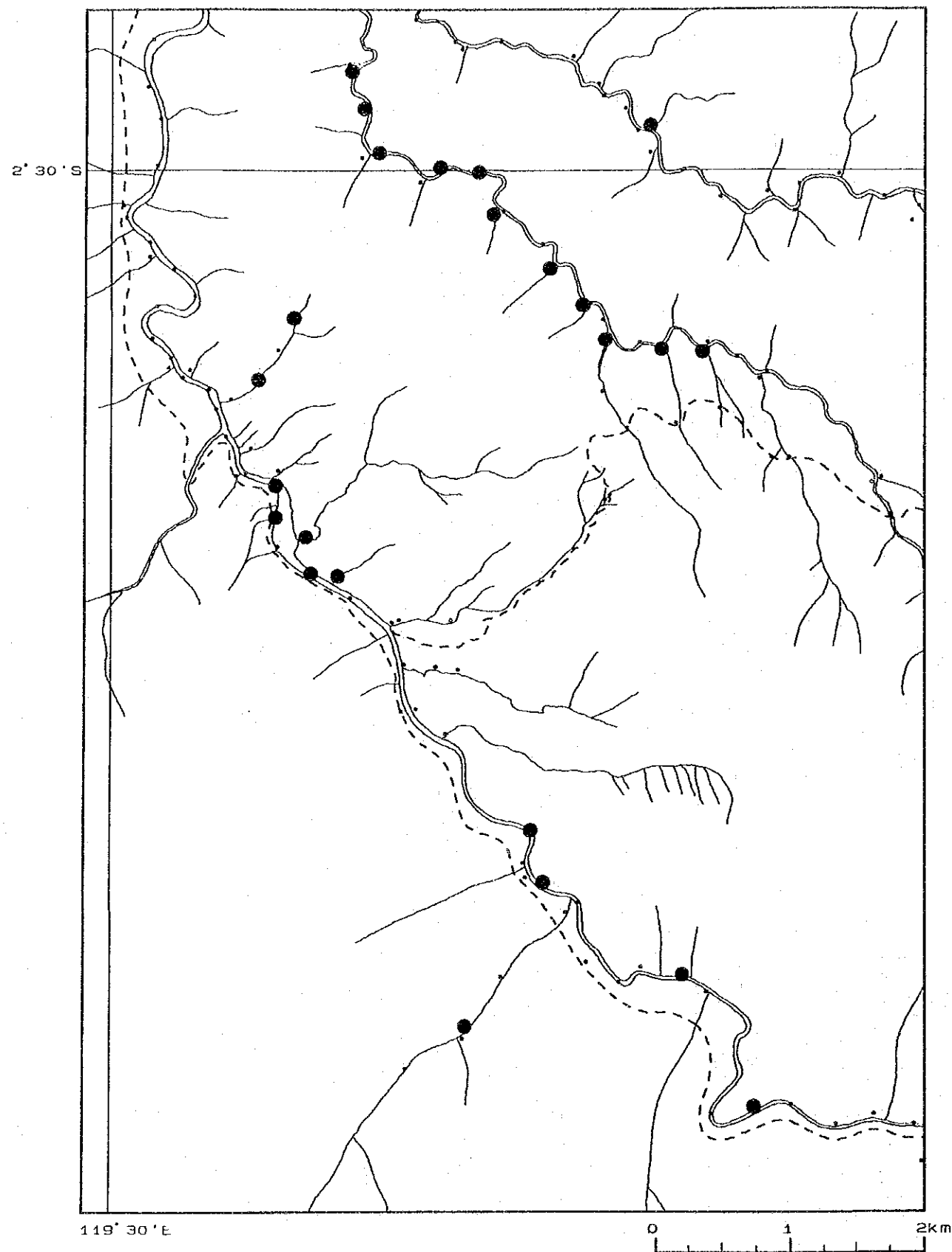
Stream Sediment Geochemistry

Au

- >21.54 ppb
- > 8.24 ppb
- < 8.24 ppb

----- road/track

Batuisi Area



Stream Sediment Geochemistry

Ag

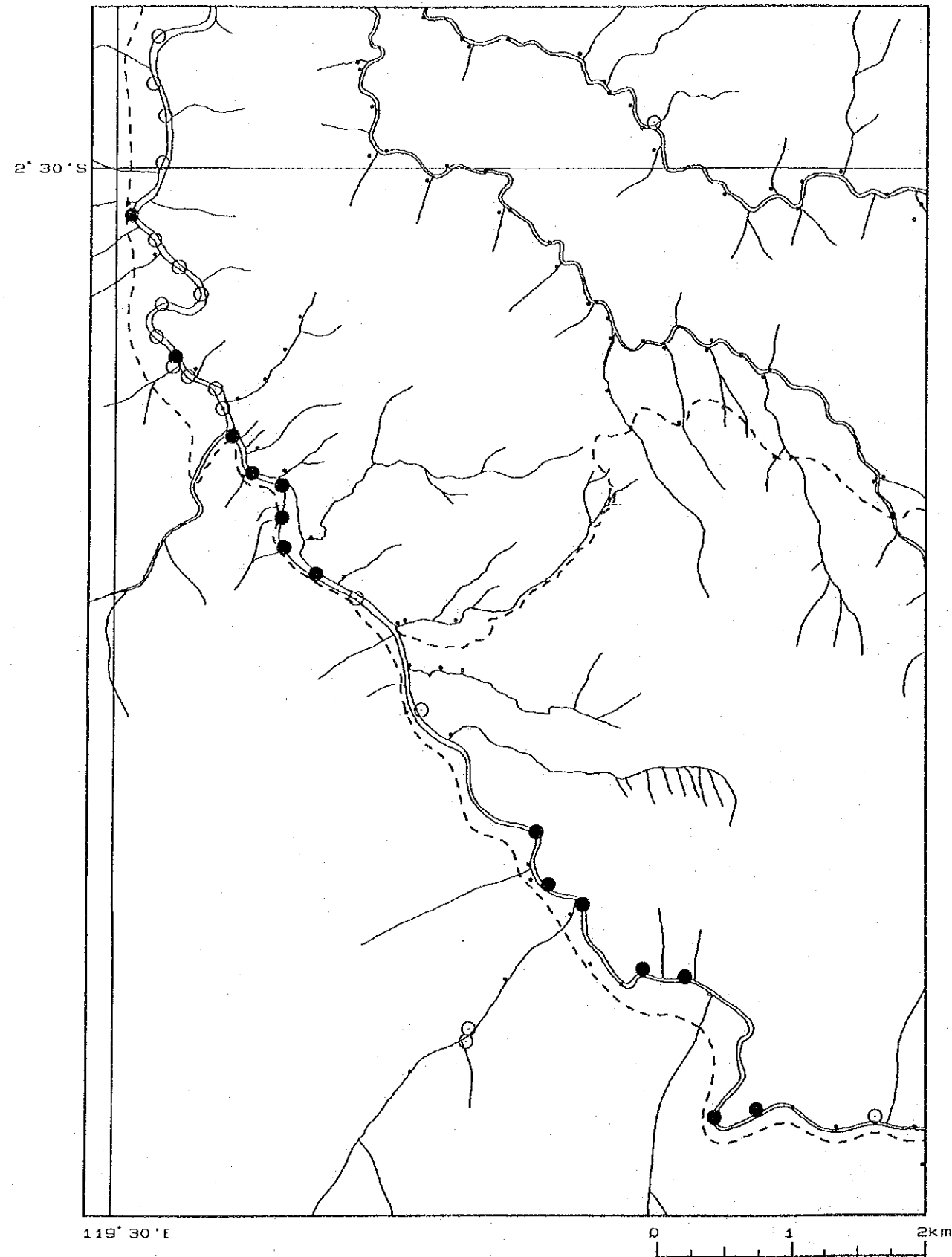
● > 0.05 ppm

○ > 0.04 ppm

• < 0.04 ppm

--- road/track

Batuisi Area



Stream Sediment Geochemistry

As

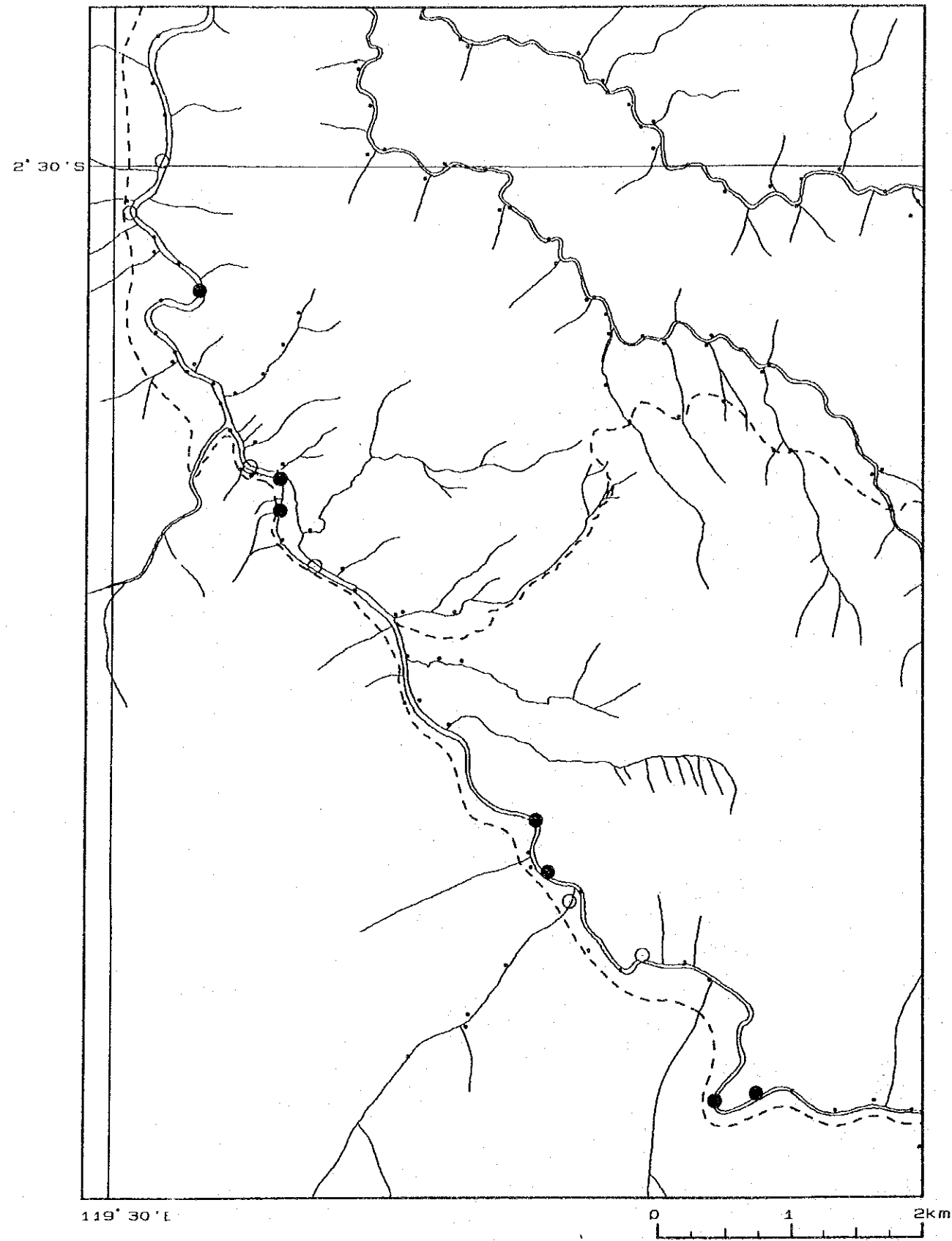
● >66.55 ppm

○ >20.21 ppm

• <20.21 ppm

--- road/track

Batuisi Area



Stream Sediment Geochemistry

Bi

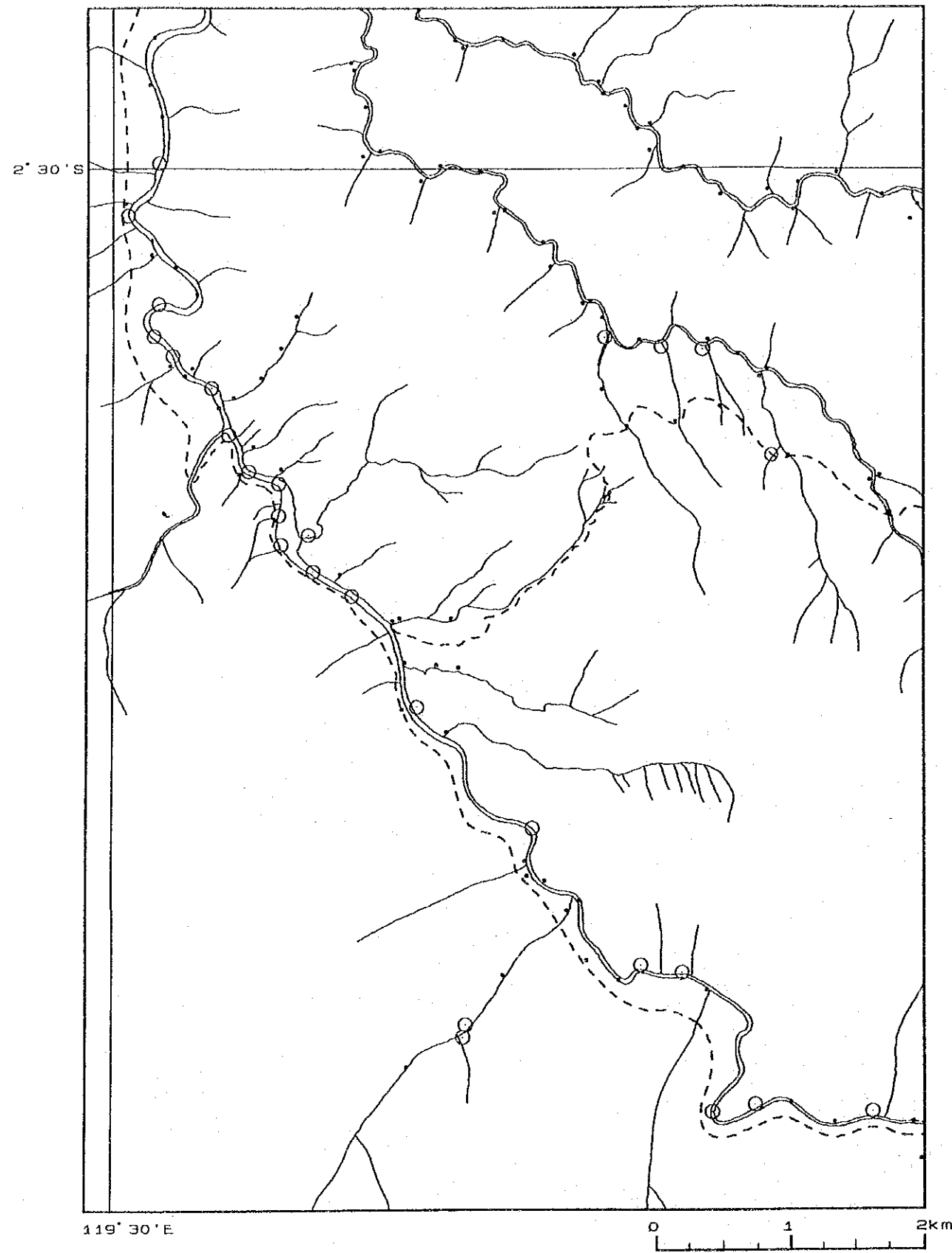
● > 4.27 ppm

○ > 1.60 ppm

• < 1.60 ppm

--- road/track

Batuisi Area



Stream Sediment Geochemistry

Sb

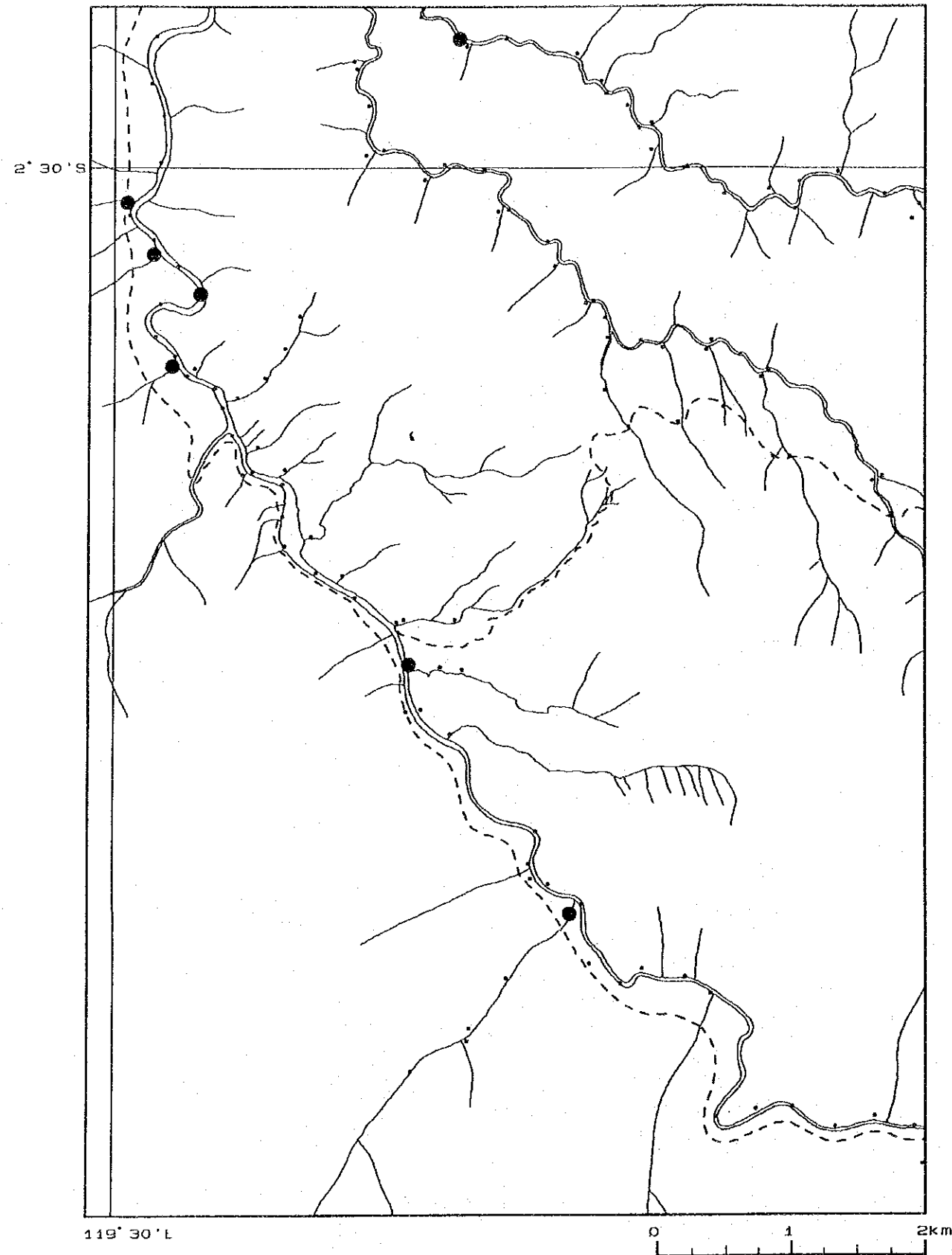
● > 2.33 ppm

○ > 0.76 ppm

• < 0.76 ppm

--- road/track

Batuisi Area



Stream Sediment Geochemistry

Hg

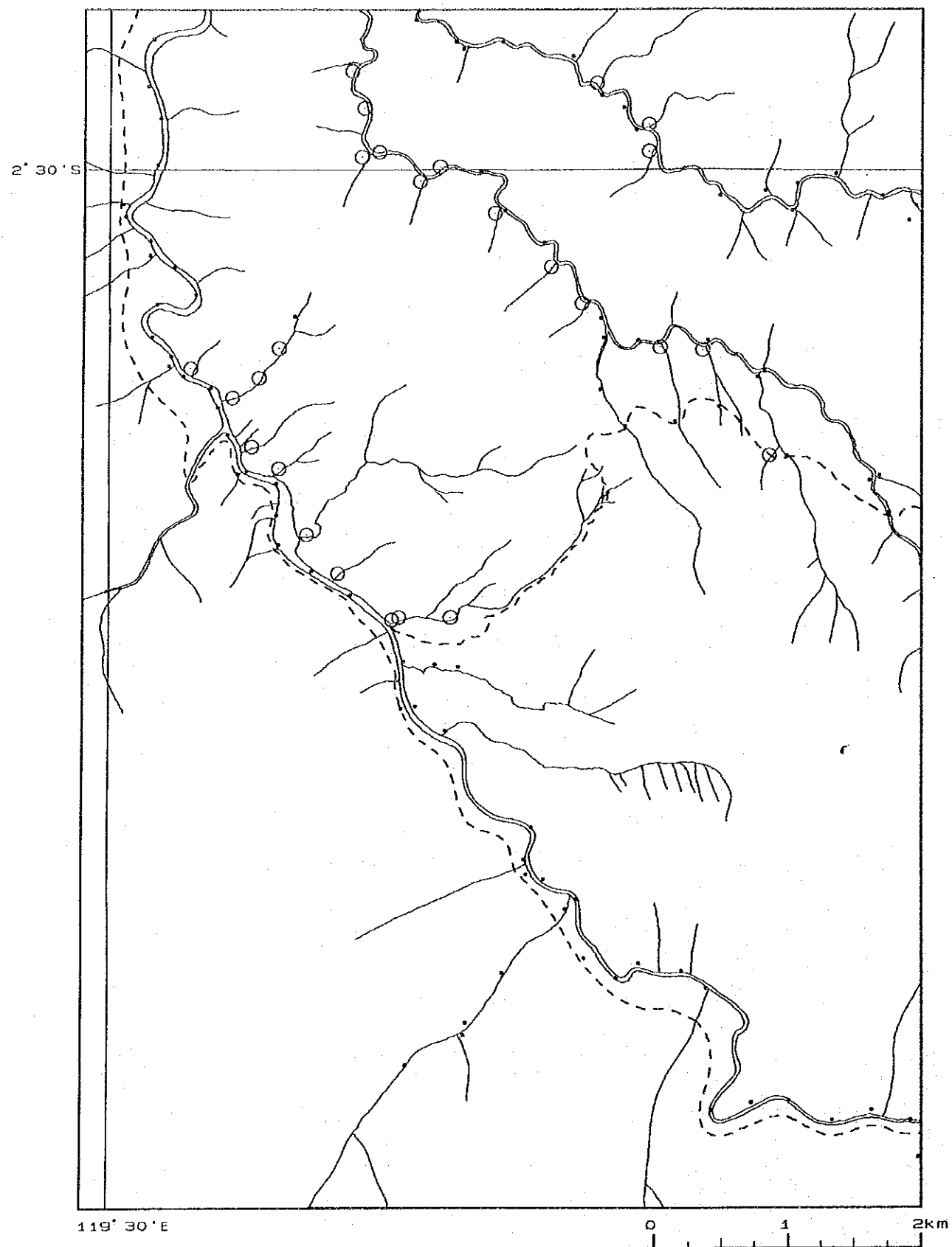
● > 0.19 ppm

○ > 0.11 ppm

• < 0.11 ppm

--- road/track

Batuisi Area



Stream Sediment Geochemistry

Cu

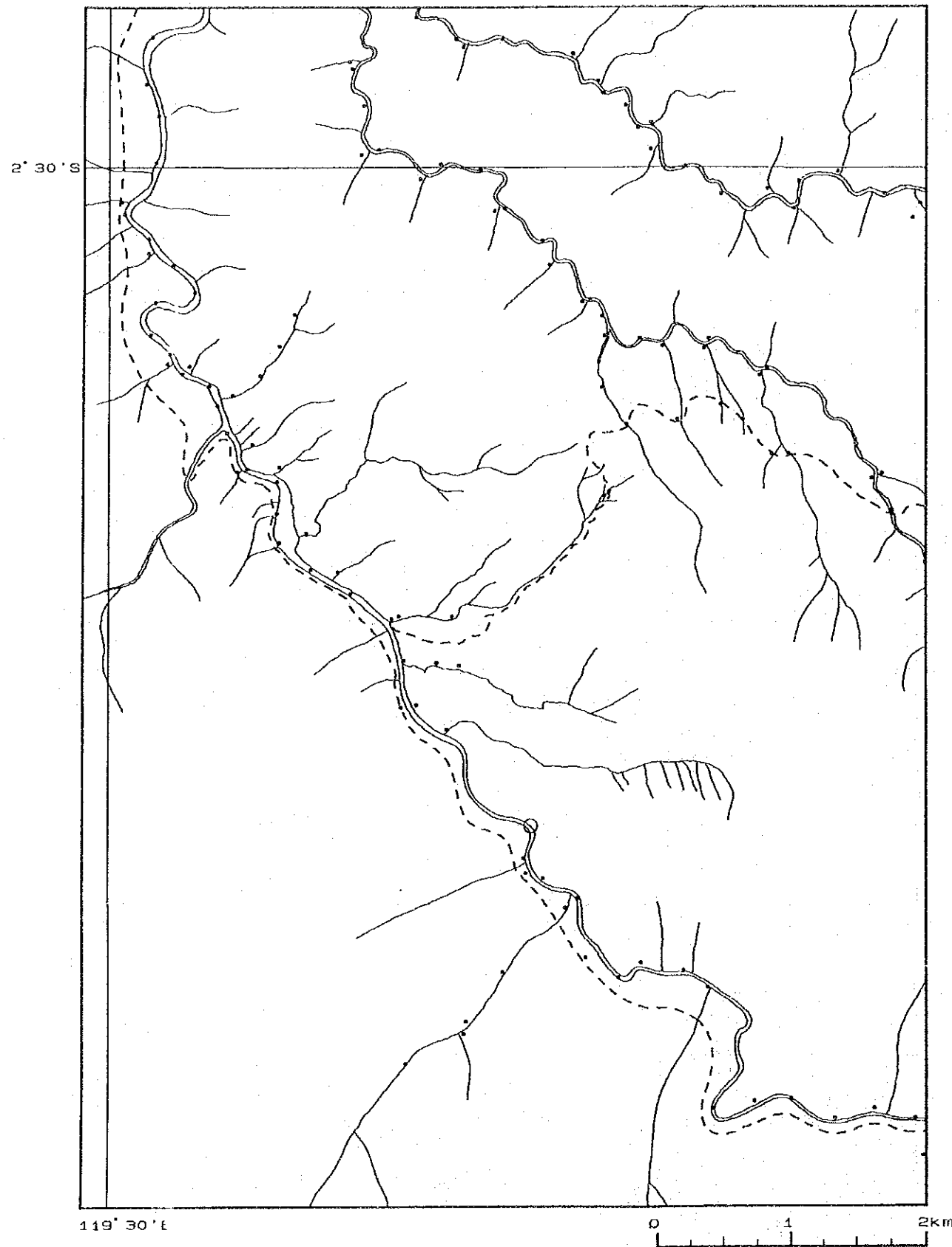
● >92.39 ppm

○ >38.09 ppm

• <38.09 ppm

--- road/track

Batuisi Area



Stream Sediment Geochemistry

Pb

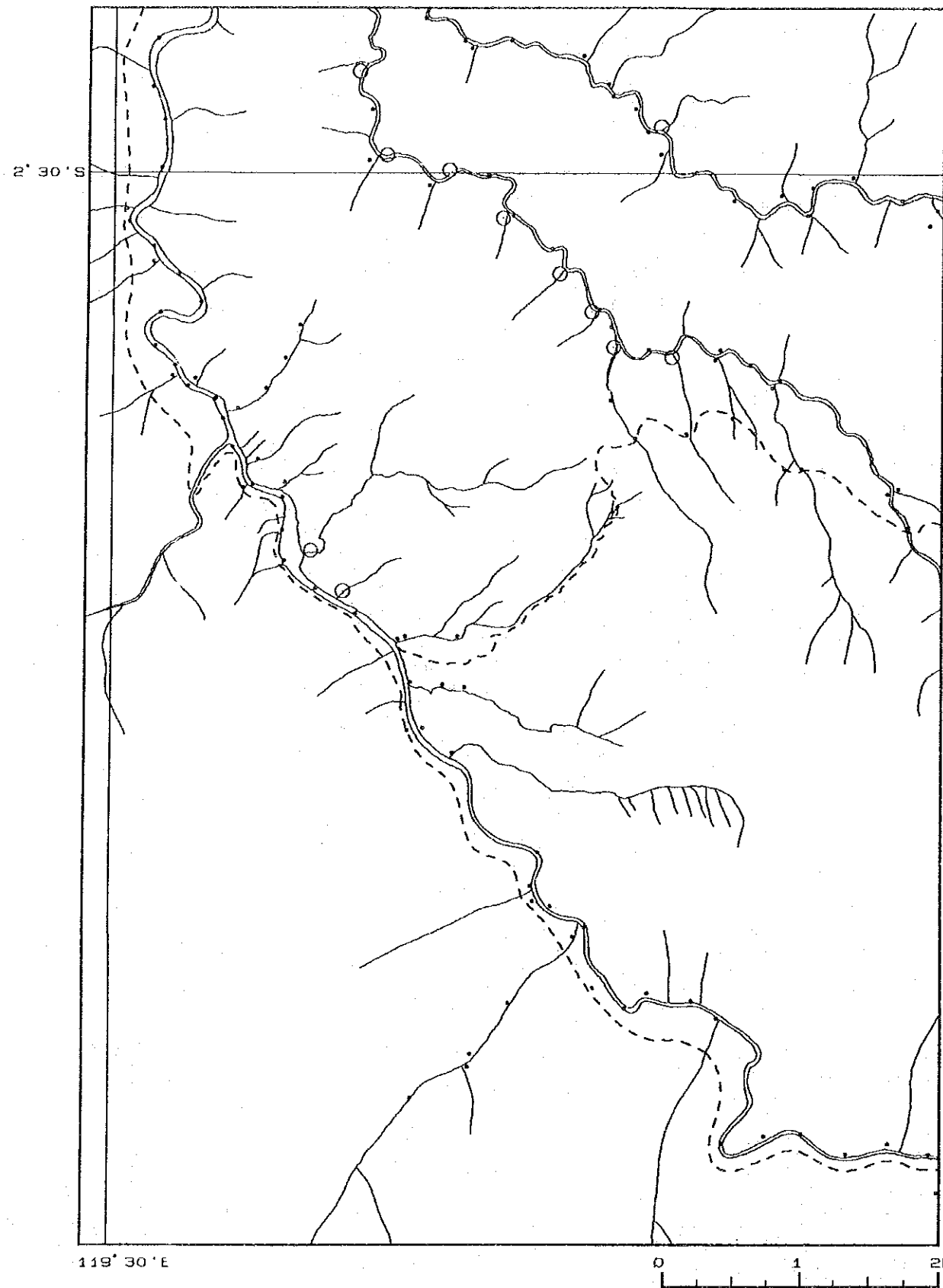
● >65.73 ppm

○ >35.24 ppm

• <35.24 ppm

----- road/track

Batuisi Area



Stream Sediment Geochemistry

Zn

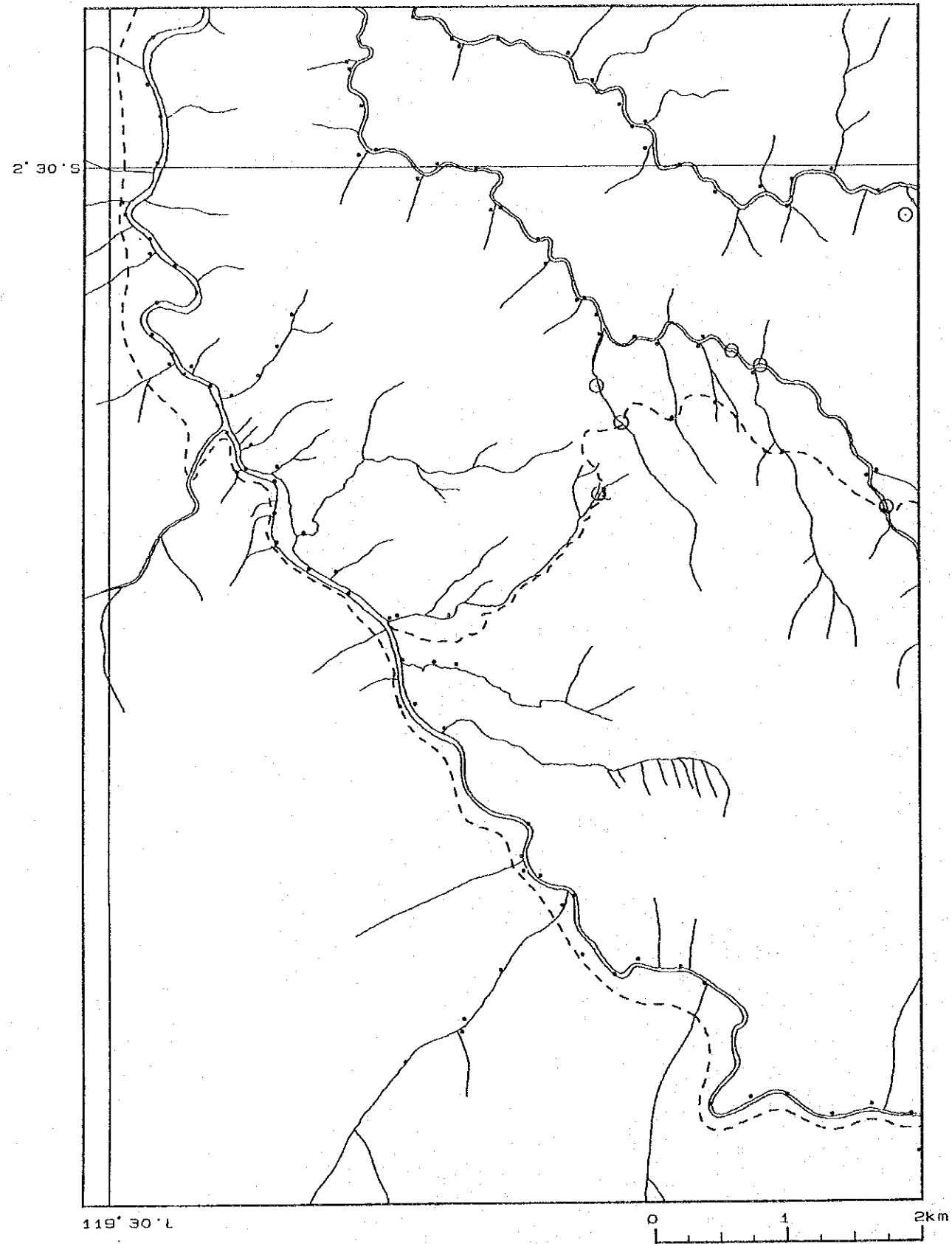
● >160.27 ppm

○ >98.70 ppm

• <98.70 ppm

--- road/track

Batuisi Area



Stream Sediment Geochemistry

Ba

- >3780.36ppm
- >1883.15ppm
- <1883.15ppm

----- road/track

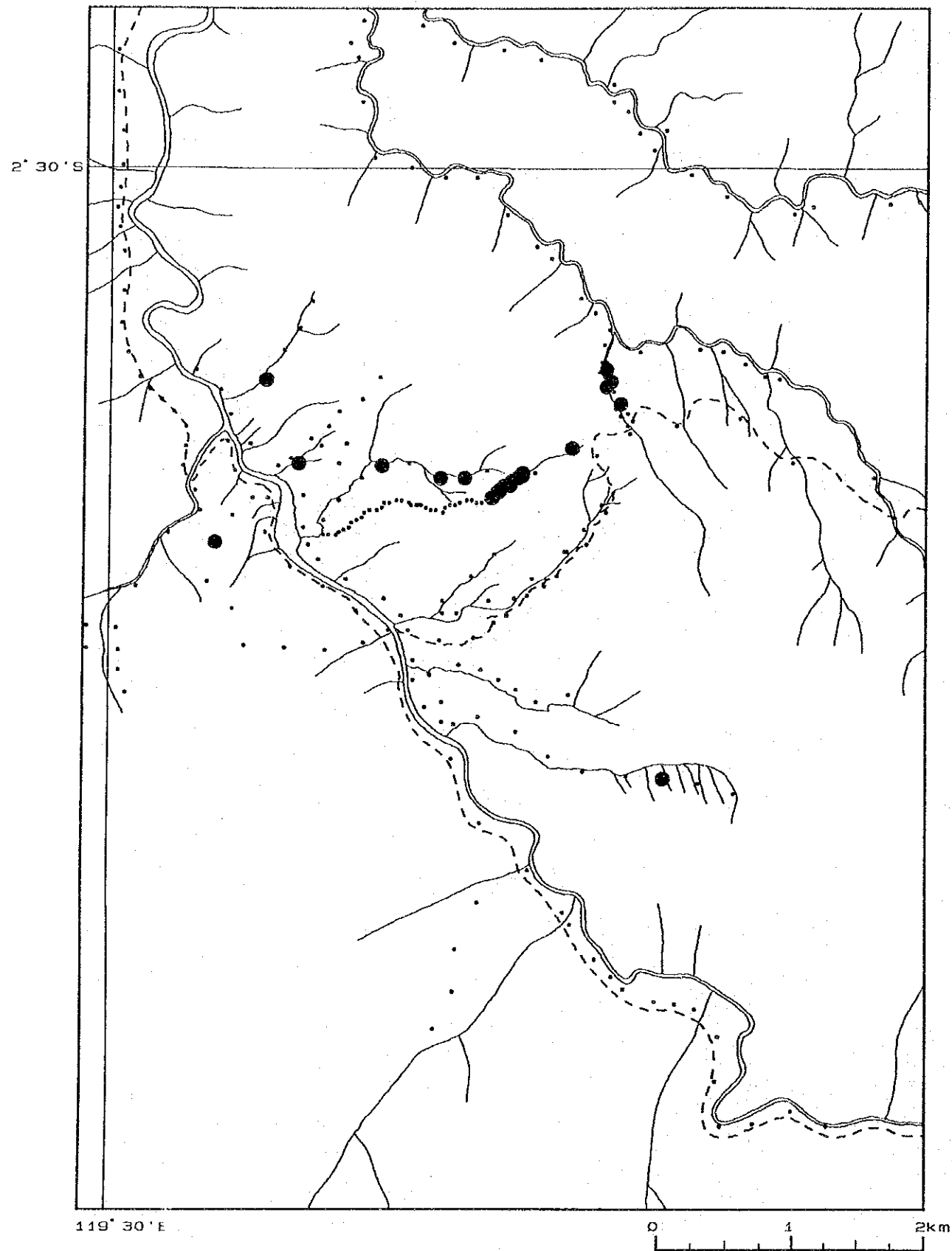
119° 30' E

0 1 2km

APP. 3

Anomalies of Soil Geochemistry
(Batuisi Prospect, 1991)

Batuisi Area



Soil Geochemistry

Au

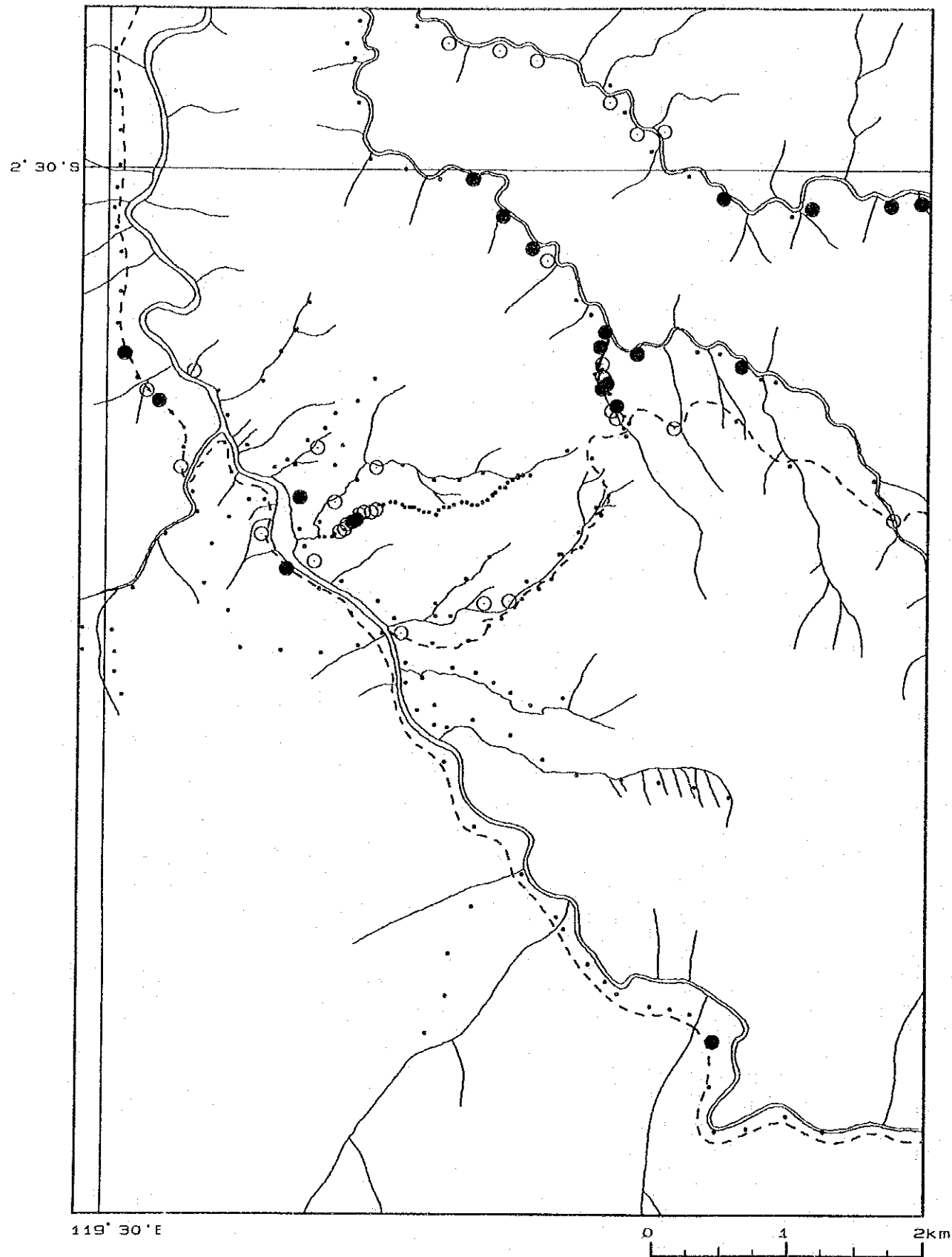
● > 8.08 ppb

○ > 4.75 ppb

• < 4.75 ppb

--- road/track

Batuisi Area



Soil Geochemistry

Ag

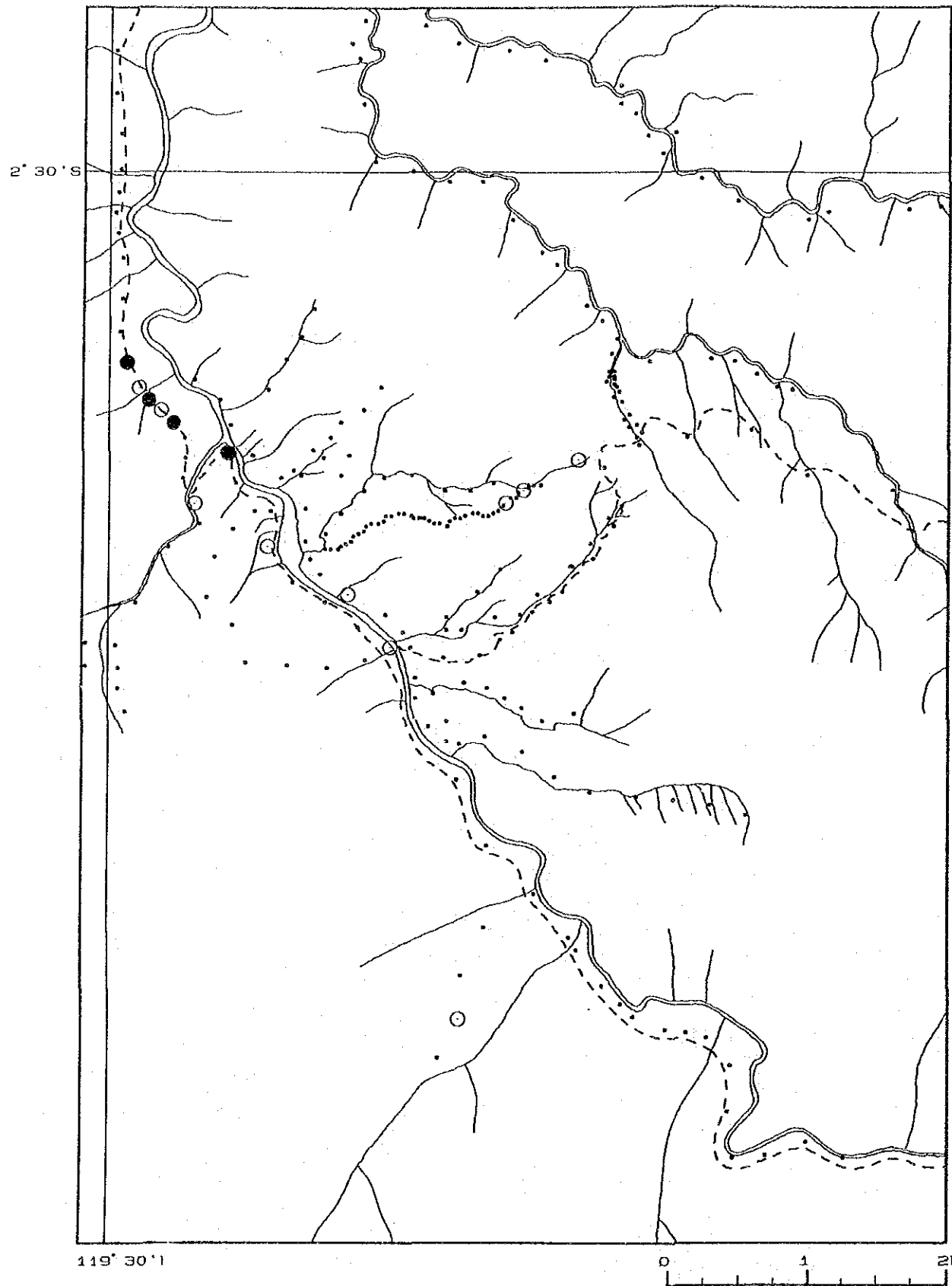
● > 0.14 ppm

○ > 0.08 ppm

• < 0.08 ppm

----- road/track

Batuisi Area



Soil Geochemistry

As

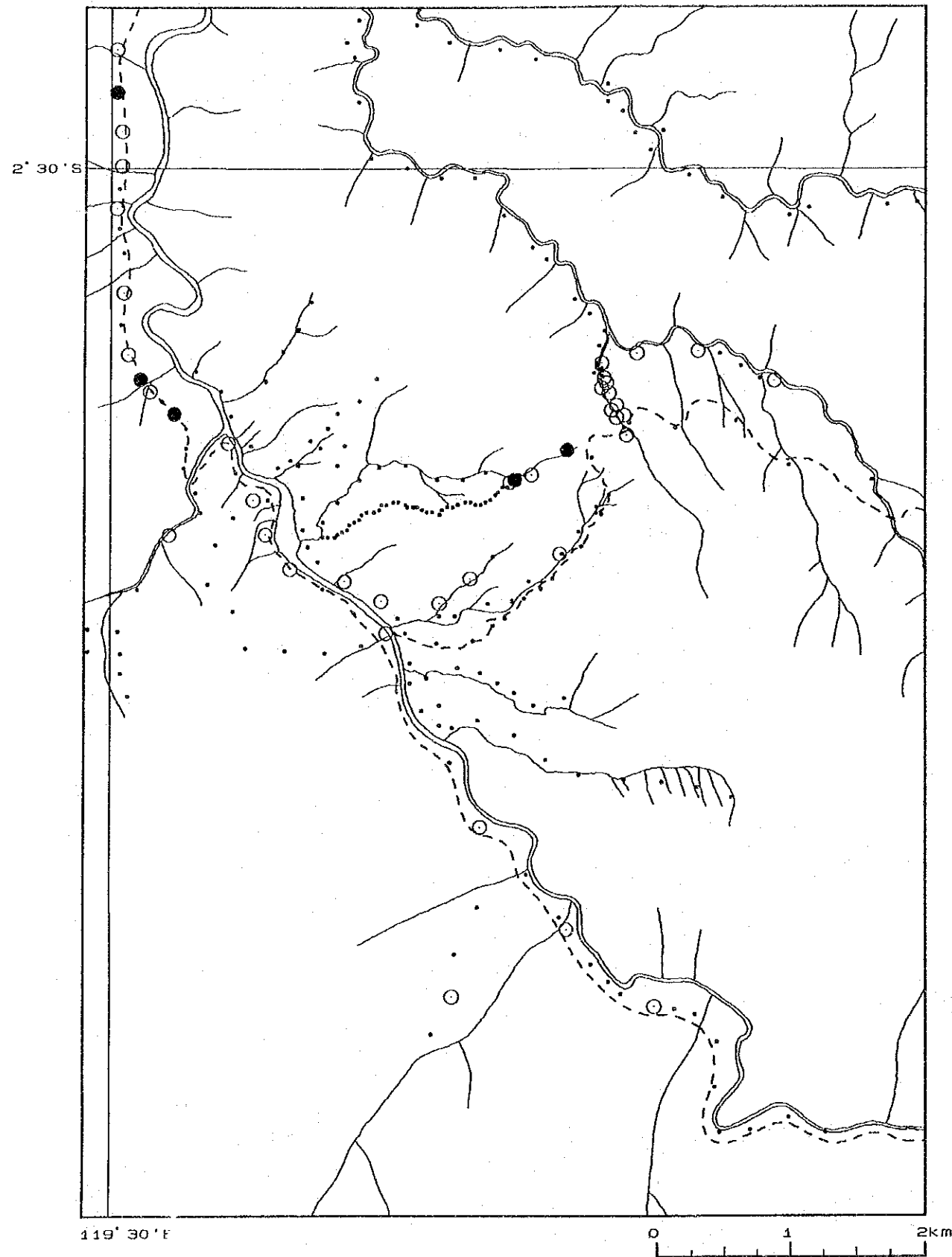
● >53.66 ppm

○ >17.16 ppm

• <17.16 ppm

----- road/track

Batuisi Area



Soil Geochemistry

Sb

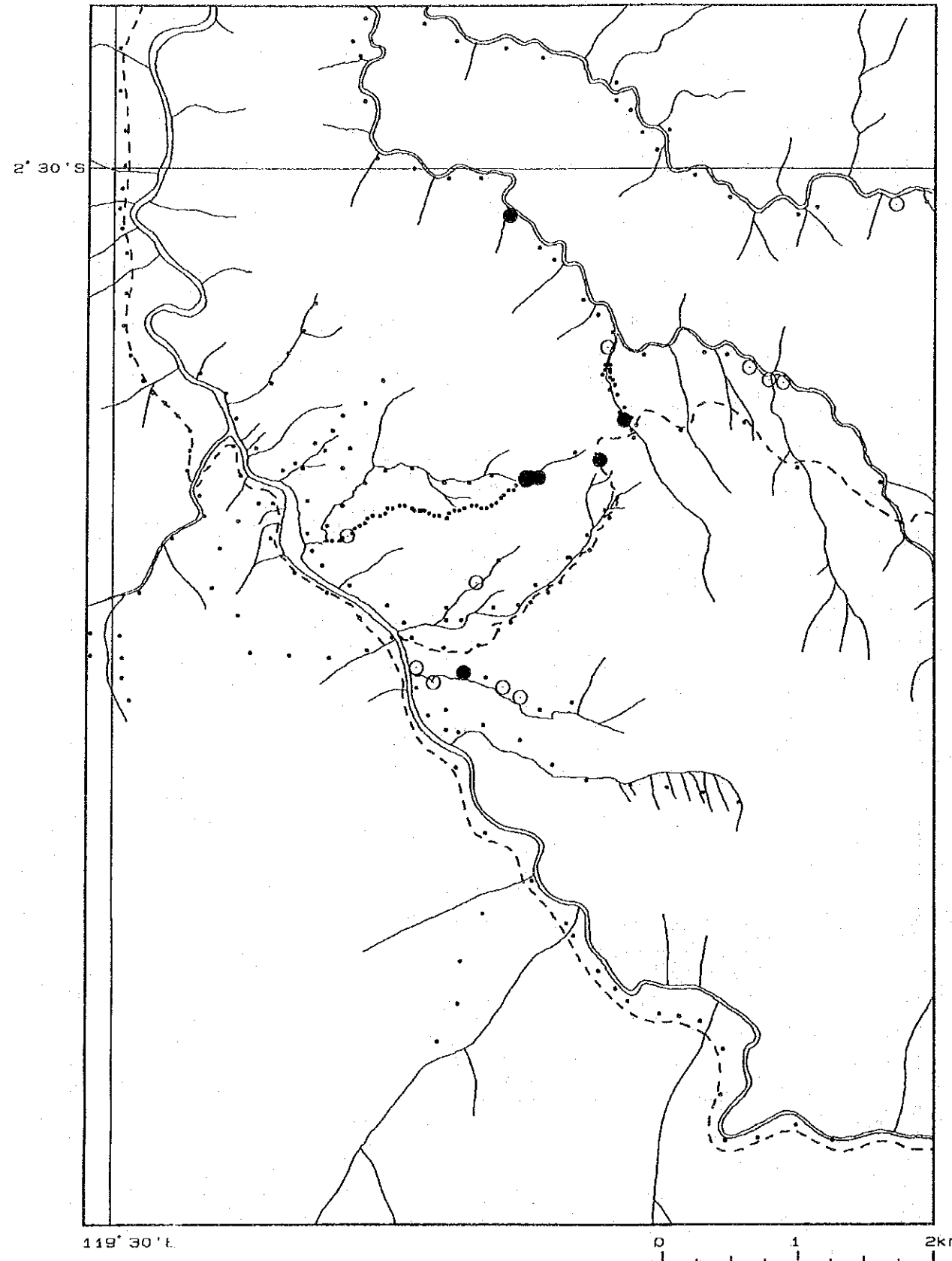
● > 2.00 ppm

○ > 0.72 ppm

• < 0.72 ppm

--- road/track

Batuisi Area



Soil Geochemistry

Bi

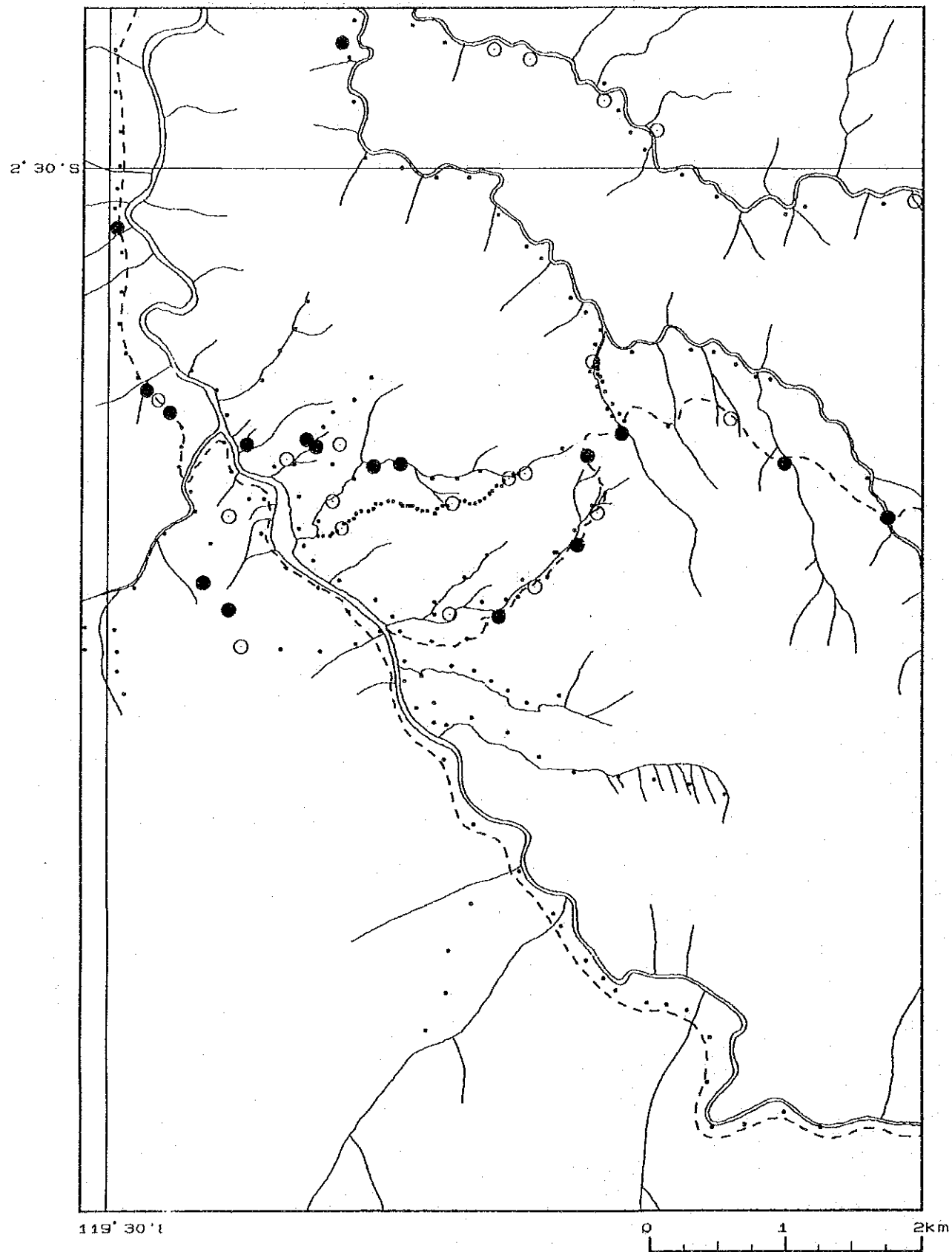
● > 1.76 ppm

○ > 0.80 ppm

• < 0.80 ppm

----- road/track

Batuisi Area



Soil Geochemistry

Hg

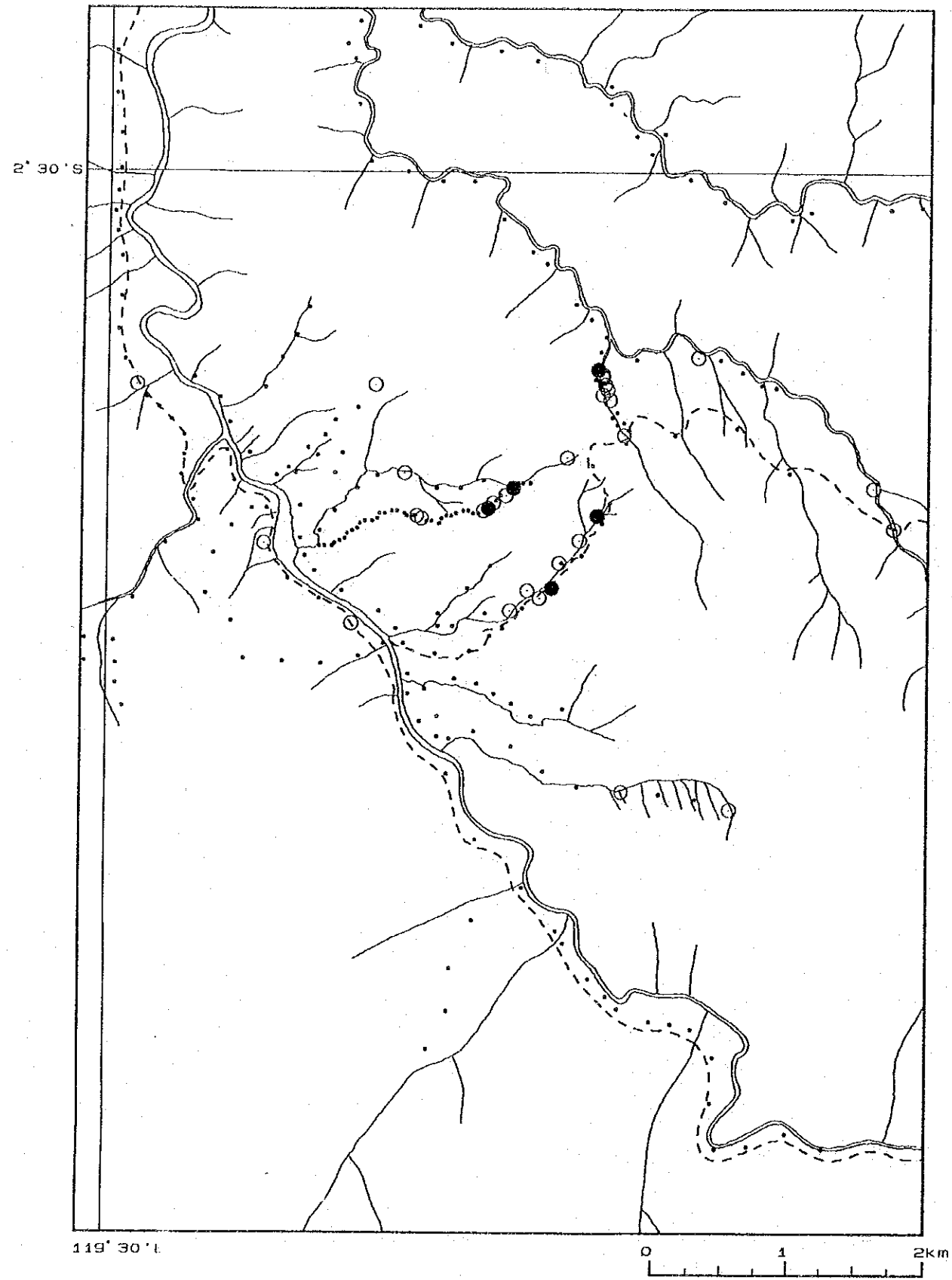
● > 0.22 ppm

○ > 0.12 ppm

• < 0.12 ppm

--- road/track

Batuisi Area



Soil Geochemistry

Cu

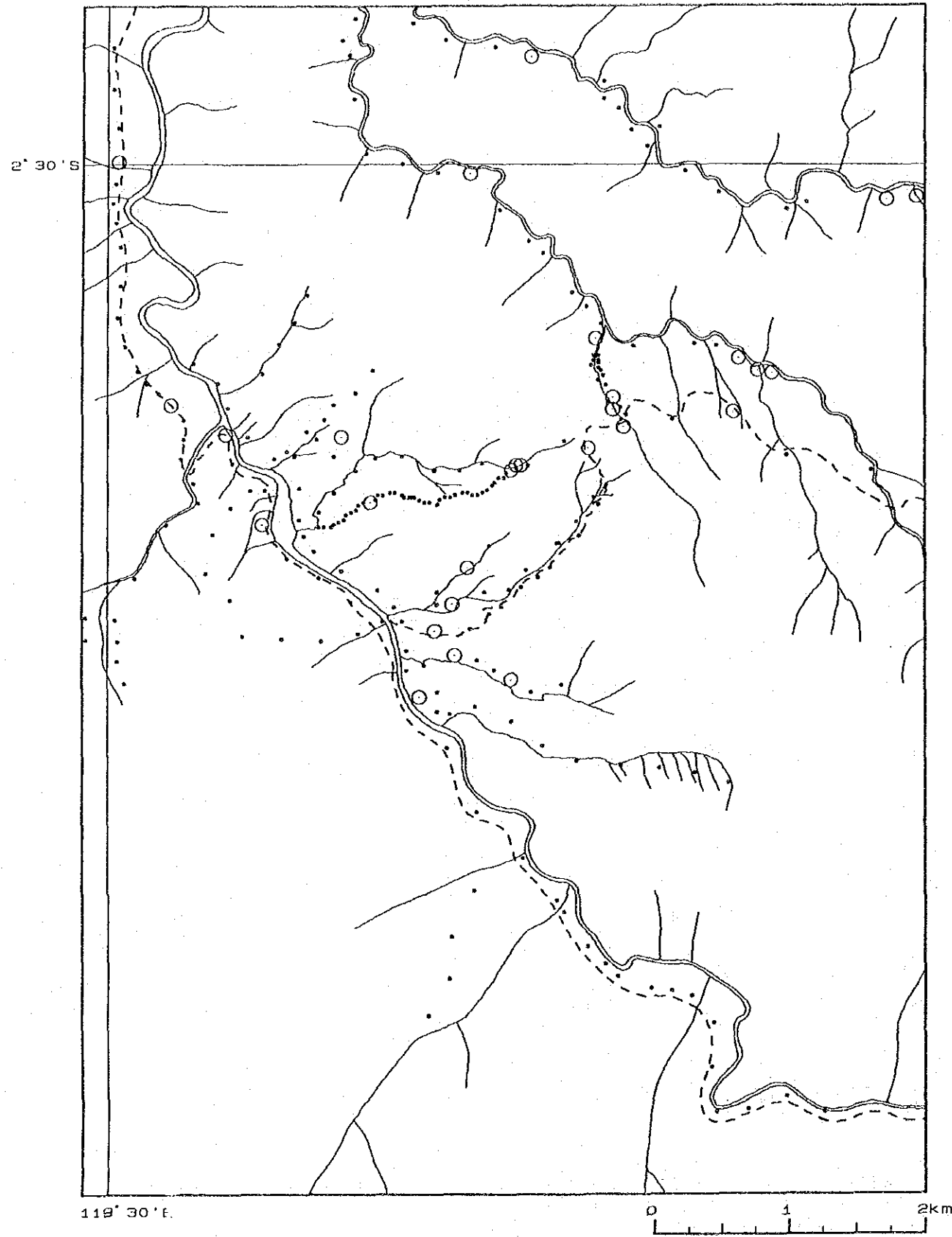
● >161.10 ppm

○ >75.12 ppm

• <75.12 ppm

--- road/track

Batuisi Area



Soil Geochemistry

Pb

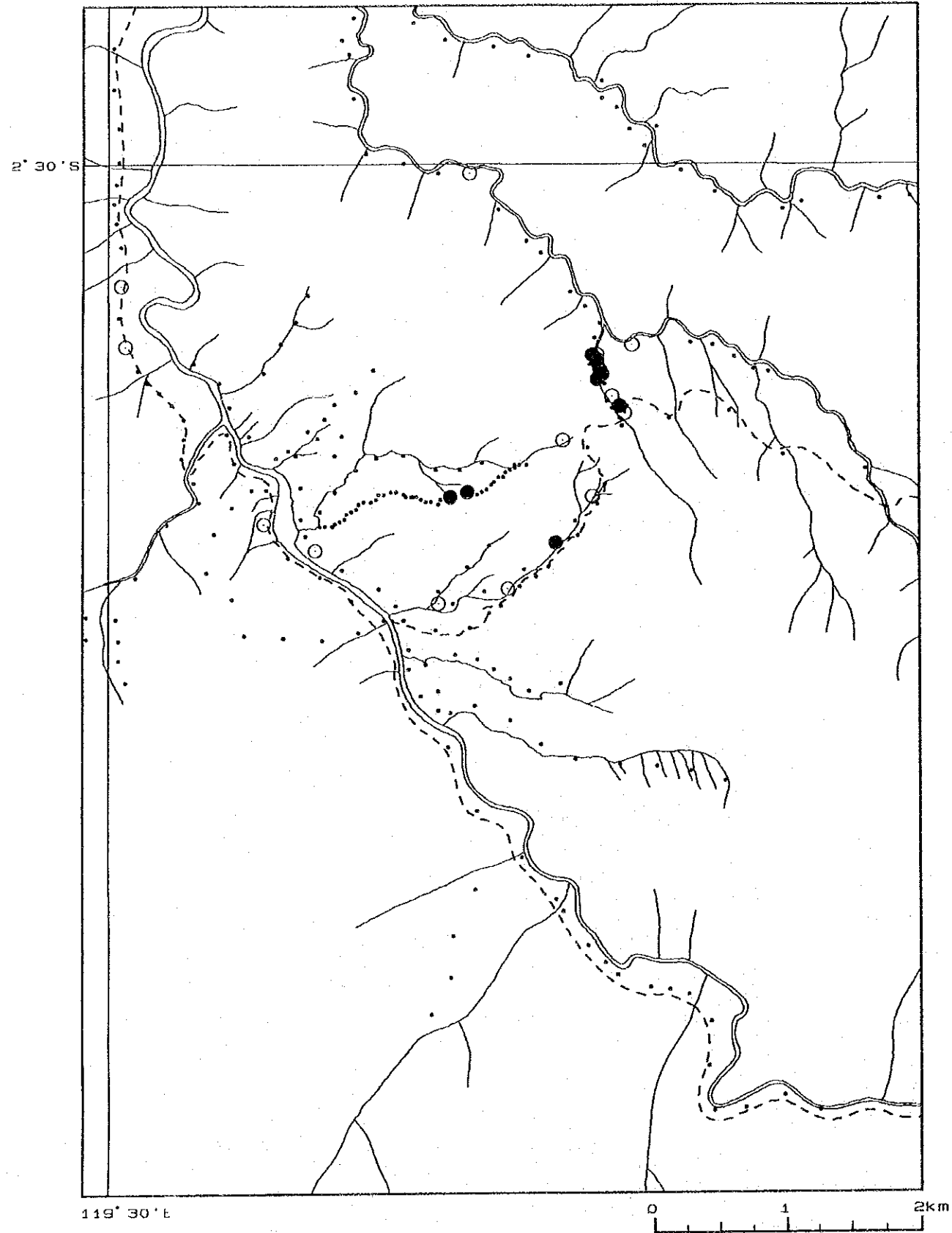
● >86.77 ppm

○ >29.35 ppm

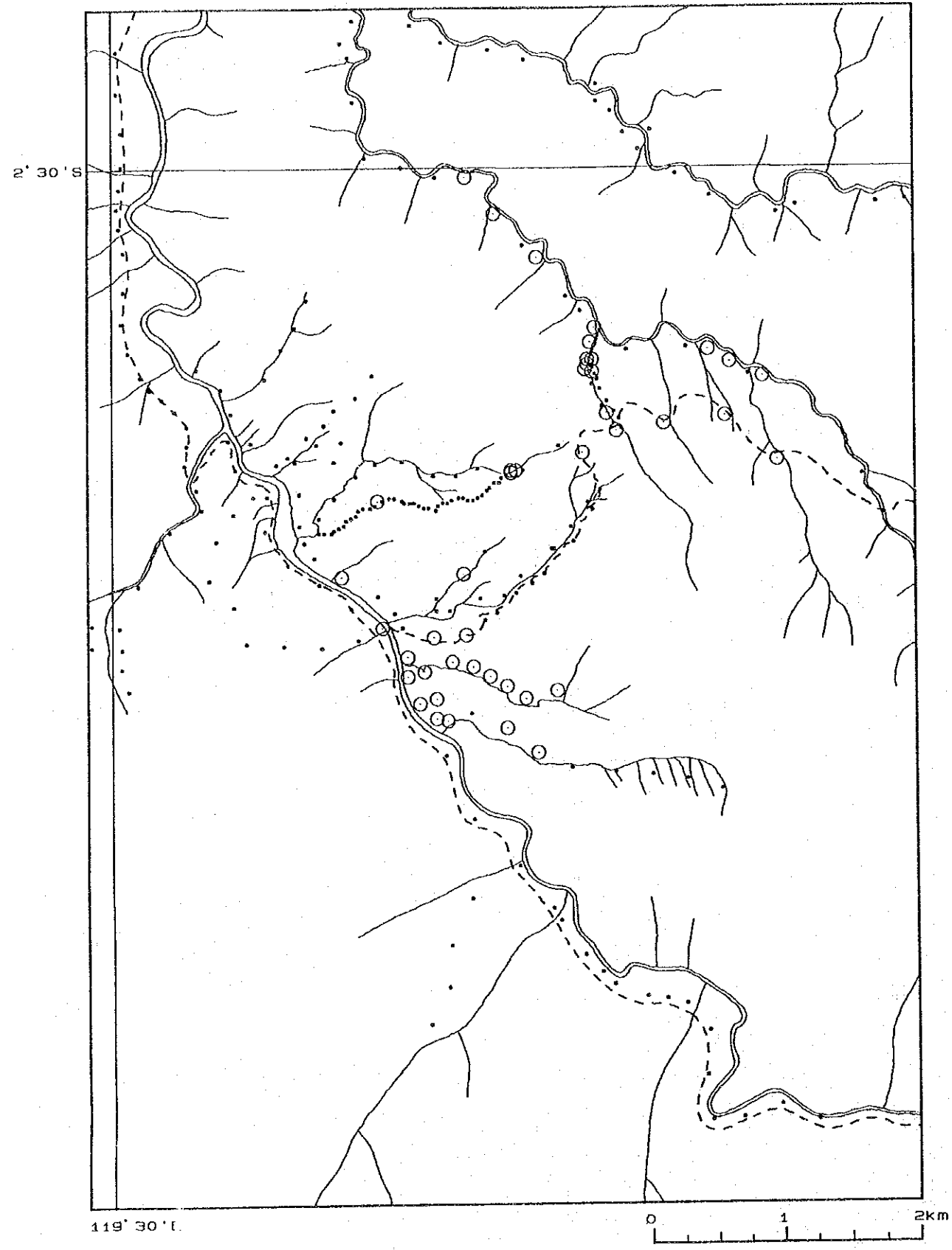
• <29.35 ppm

--- road/track

Batuisi Area



Batuisi Area



Soil Geochemistry

Ba

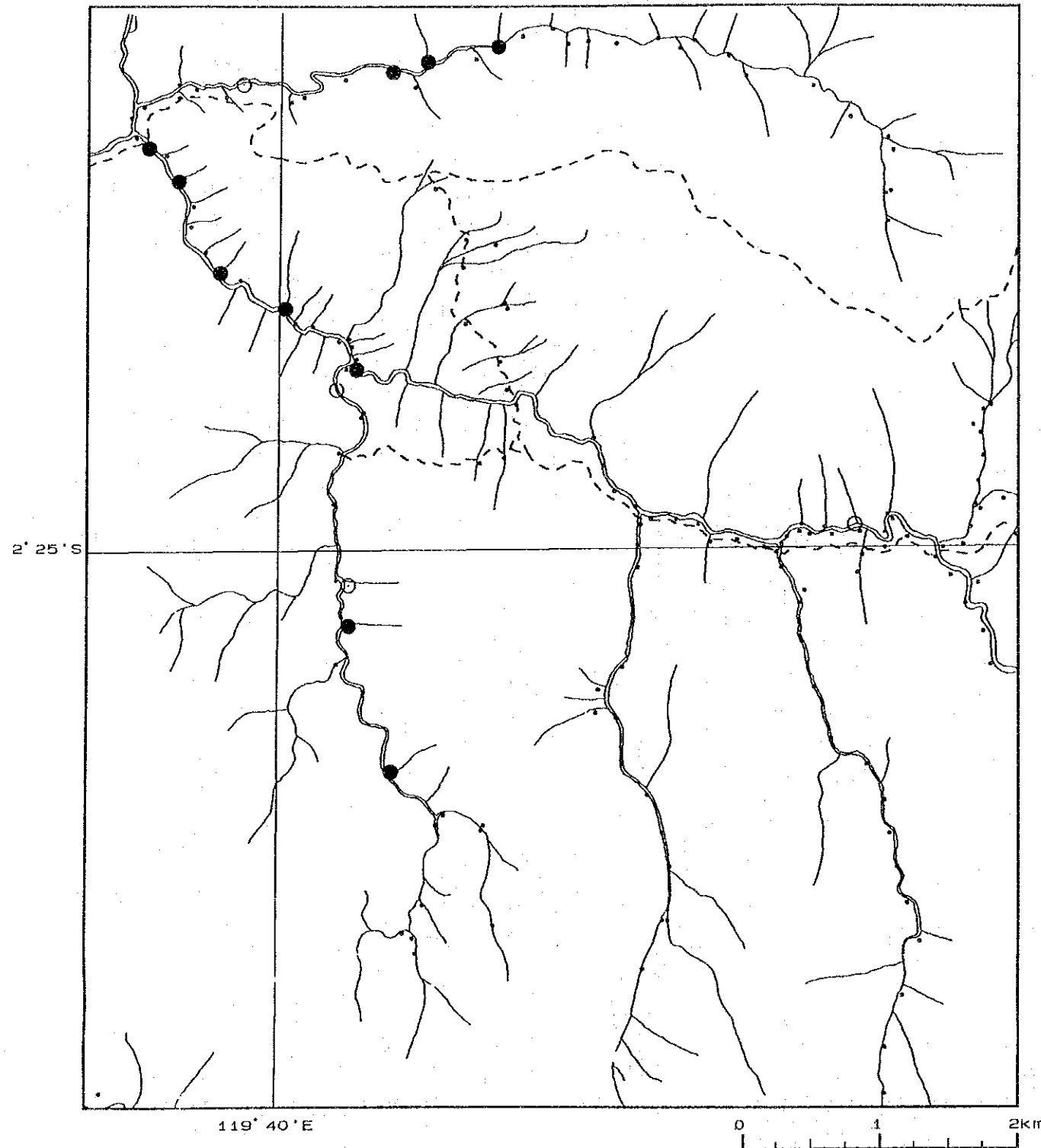
- > 1831.07ppm
- > 630.76ppm
- < 630.76ppm

----- road/track

APP. 4

Anomalies of Stream Sediment
Geochemistry (Bau Prospect)

Bau Area



Stream Sediment Geochemistry

Au

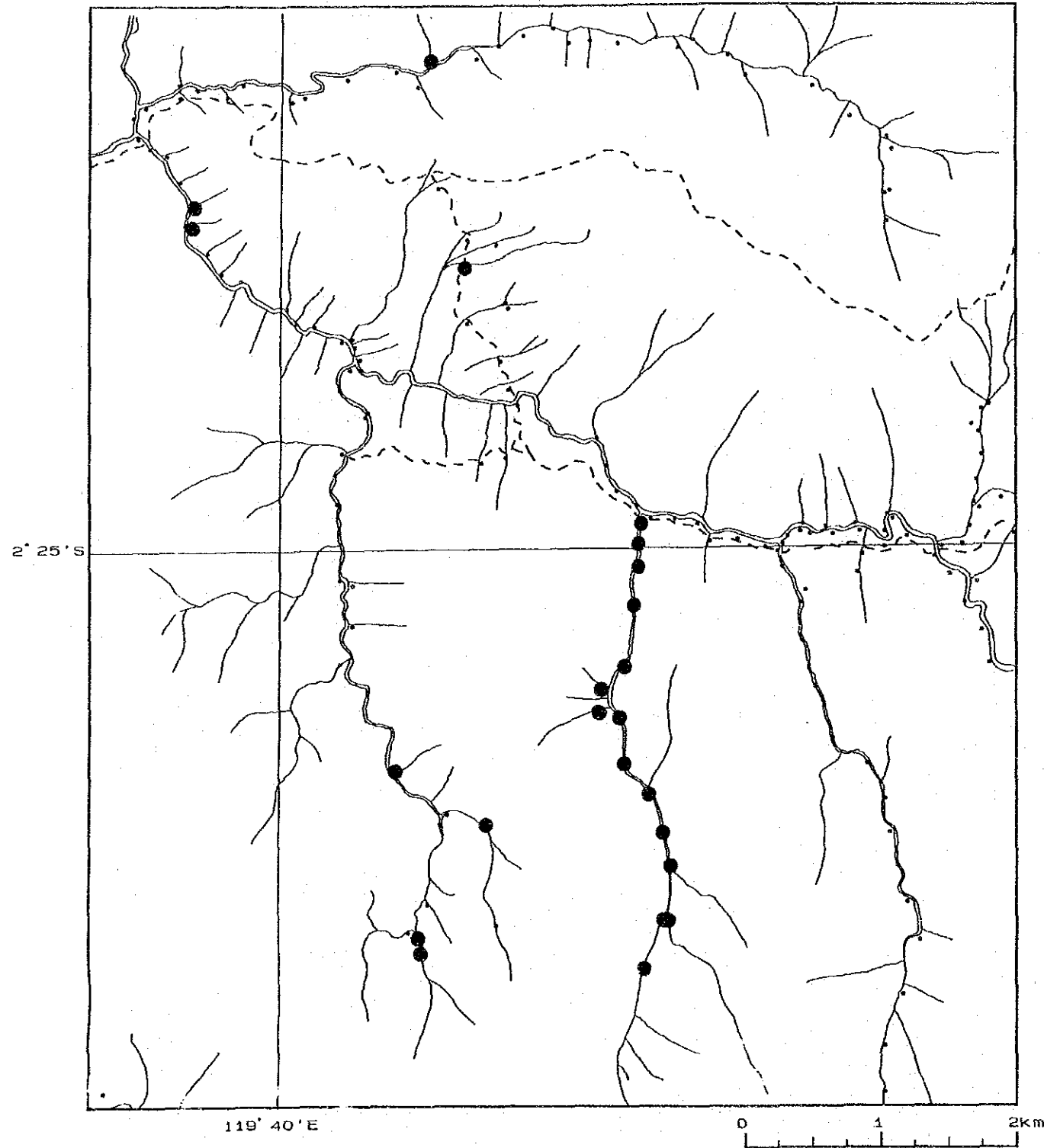
● >21.54 ppb

○ > 8.24 ppb

• < 8.24 ppb

----- road/track

Bau Area



Stream Sediment Geochemistry

Ag

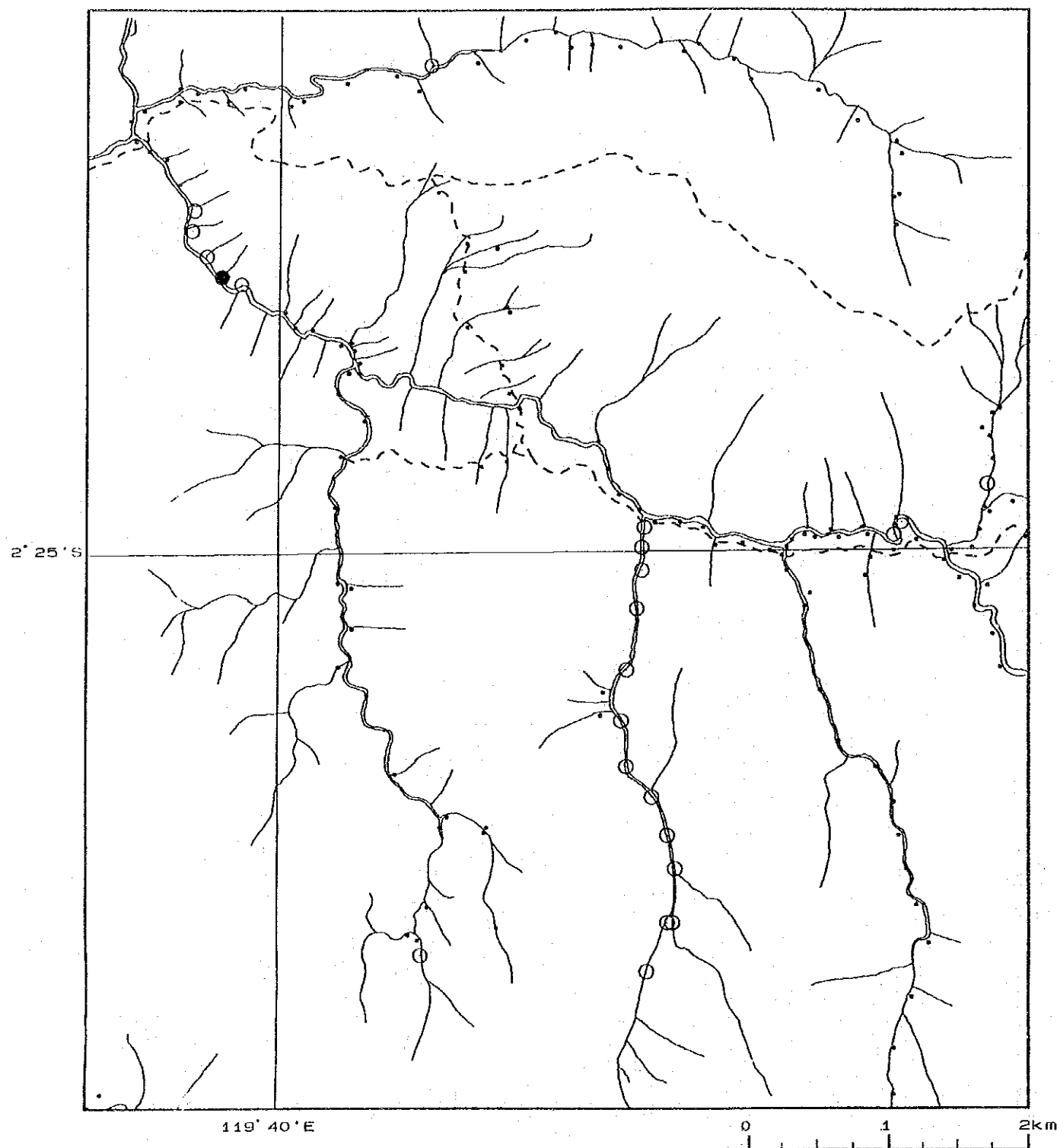
● > 0.05 ppm

○ > 0.04 ppm

• < 0.04 ppm

--- road/track

Bau Area



Stream Sediment Geochemistry

As

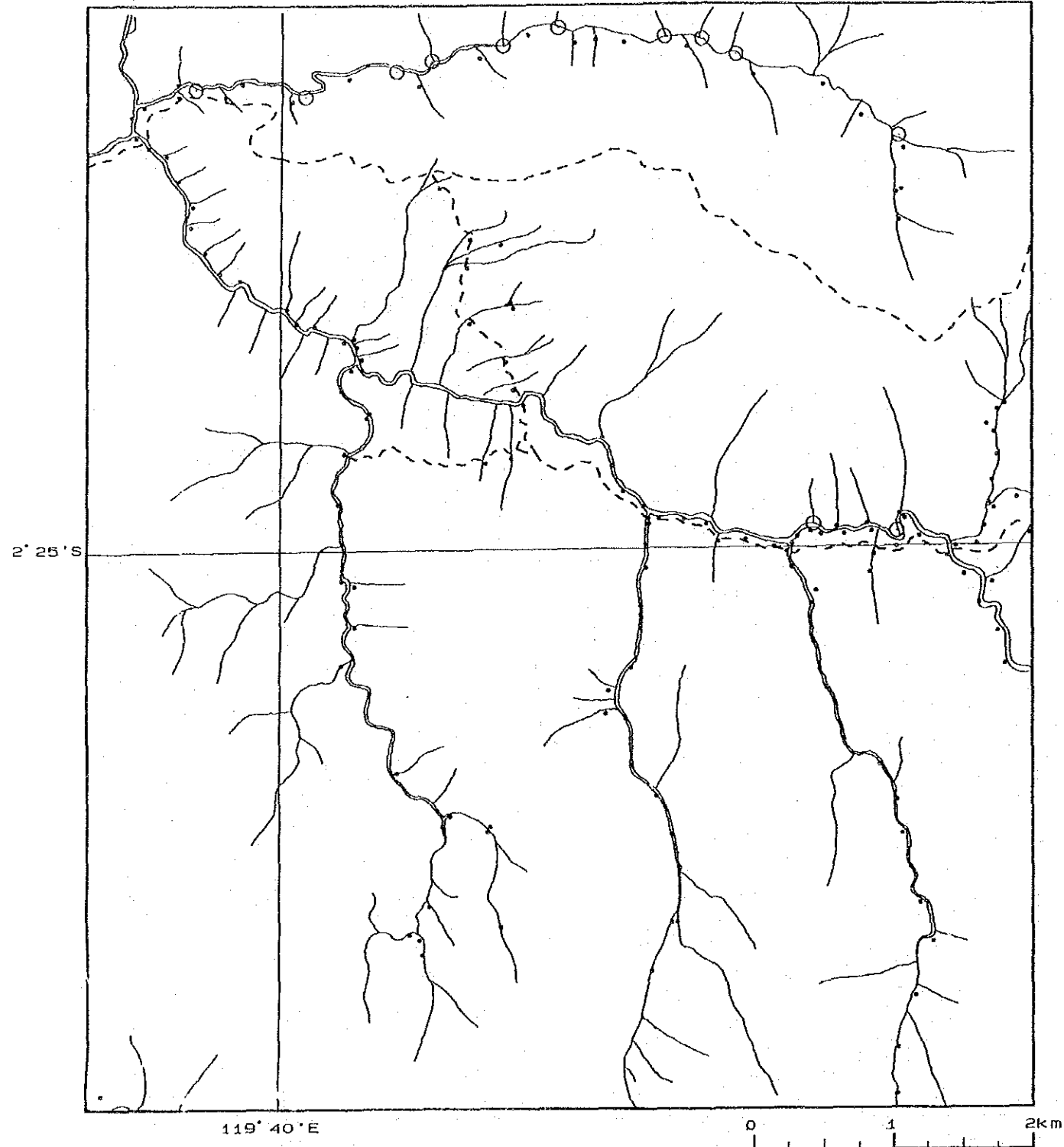
● >66.55 ppm

○ >20.21 ppm

• <20.21 ppm

----- road/track

Bau Area



Stream Sediment Geochemistry

Bi

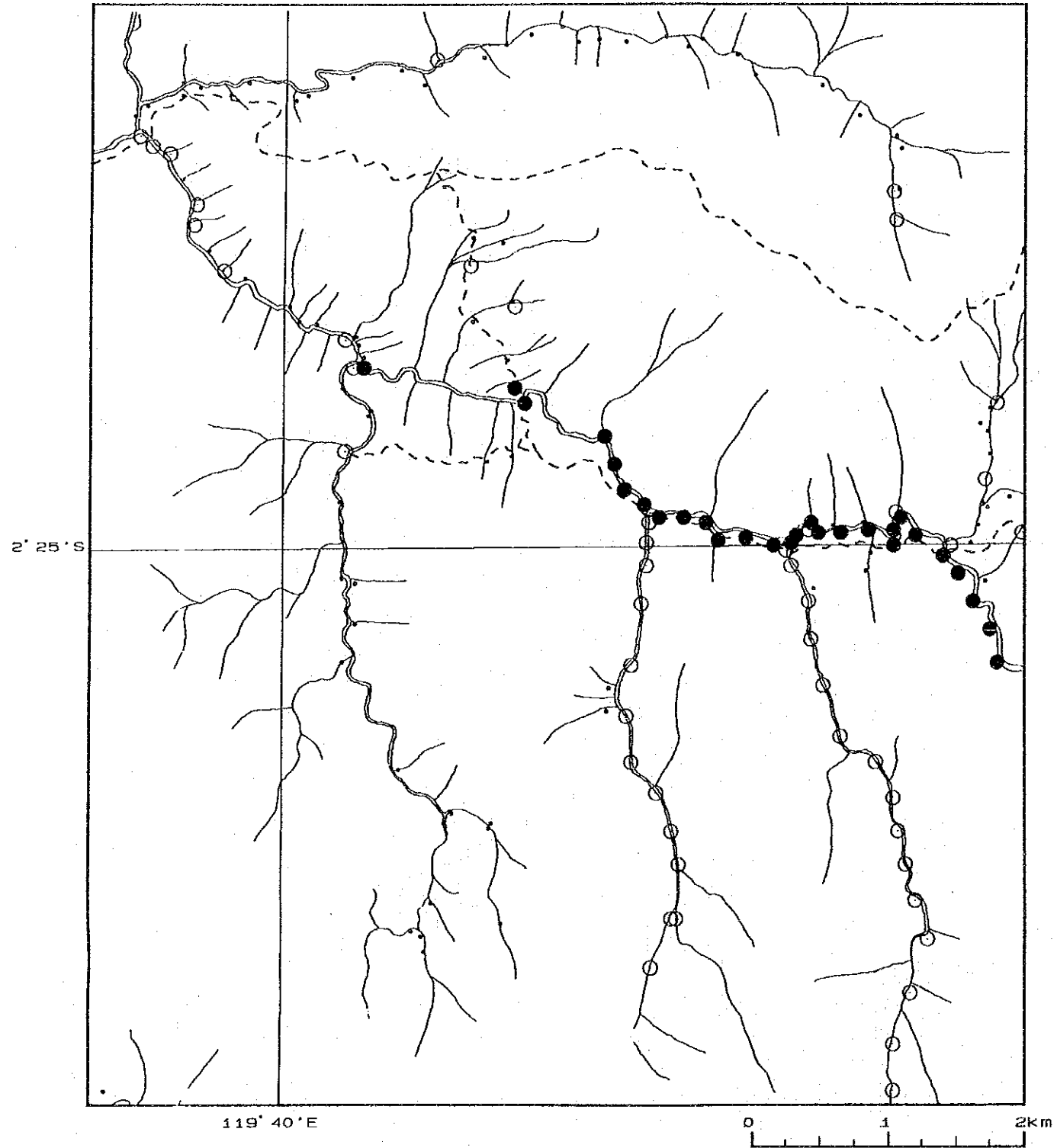
● > 4.27 ppm

○ > 1.60 ppm

• < 1.60 ppm

----- road/track

Bau Area

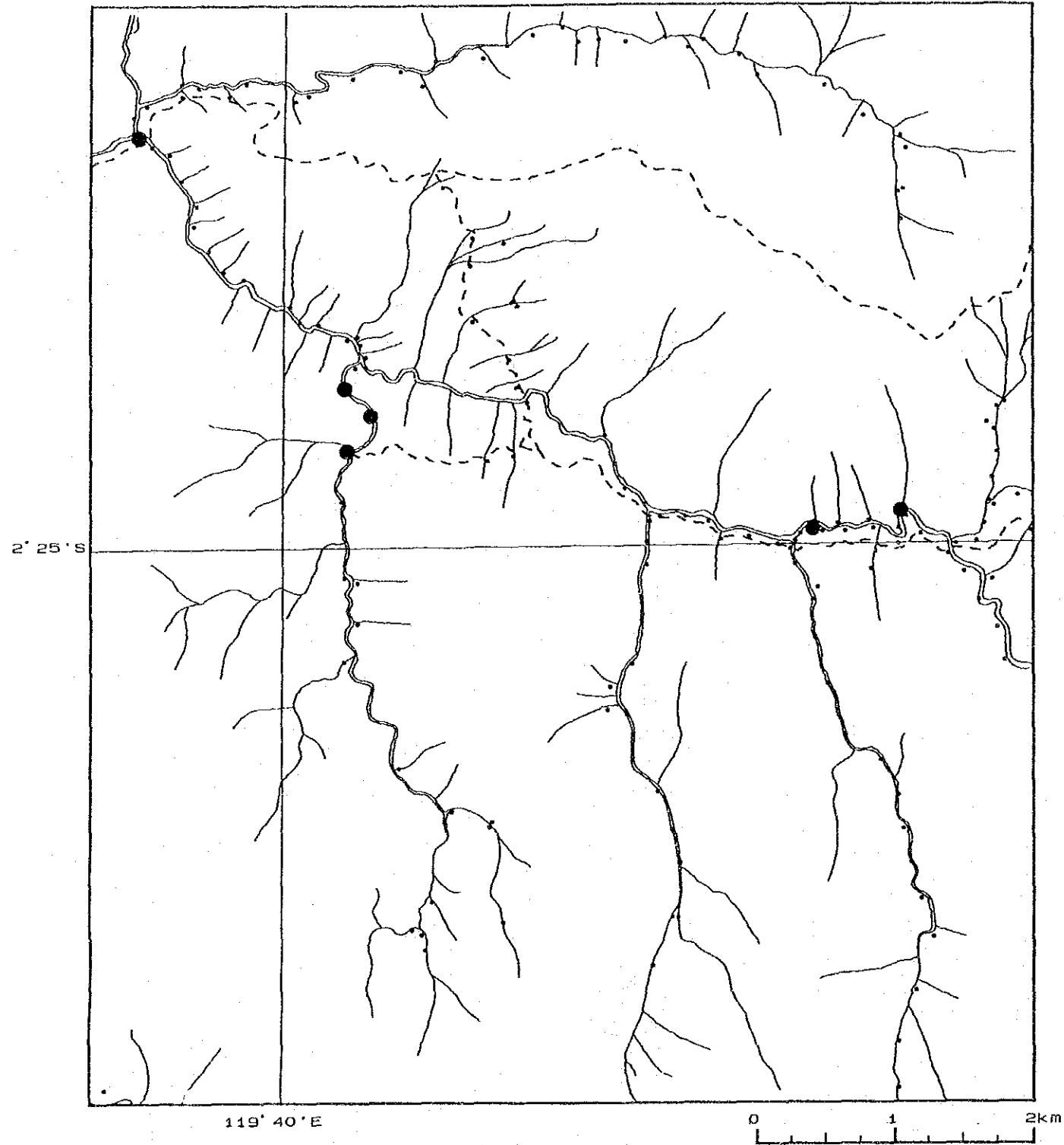


Stream Sediment Geochemistry
Sb

- > 2.33 ppm
- > 0.76 ppm
- < 0.76 ppm

--- road/track

Bau Area



Stream Sediment Geochemistry

Hg

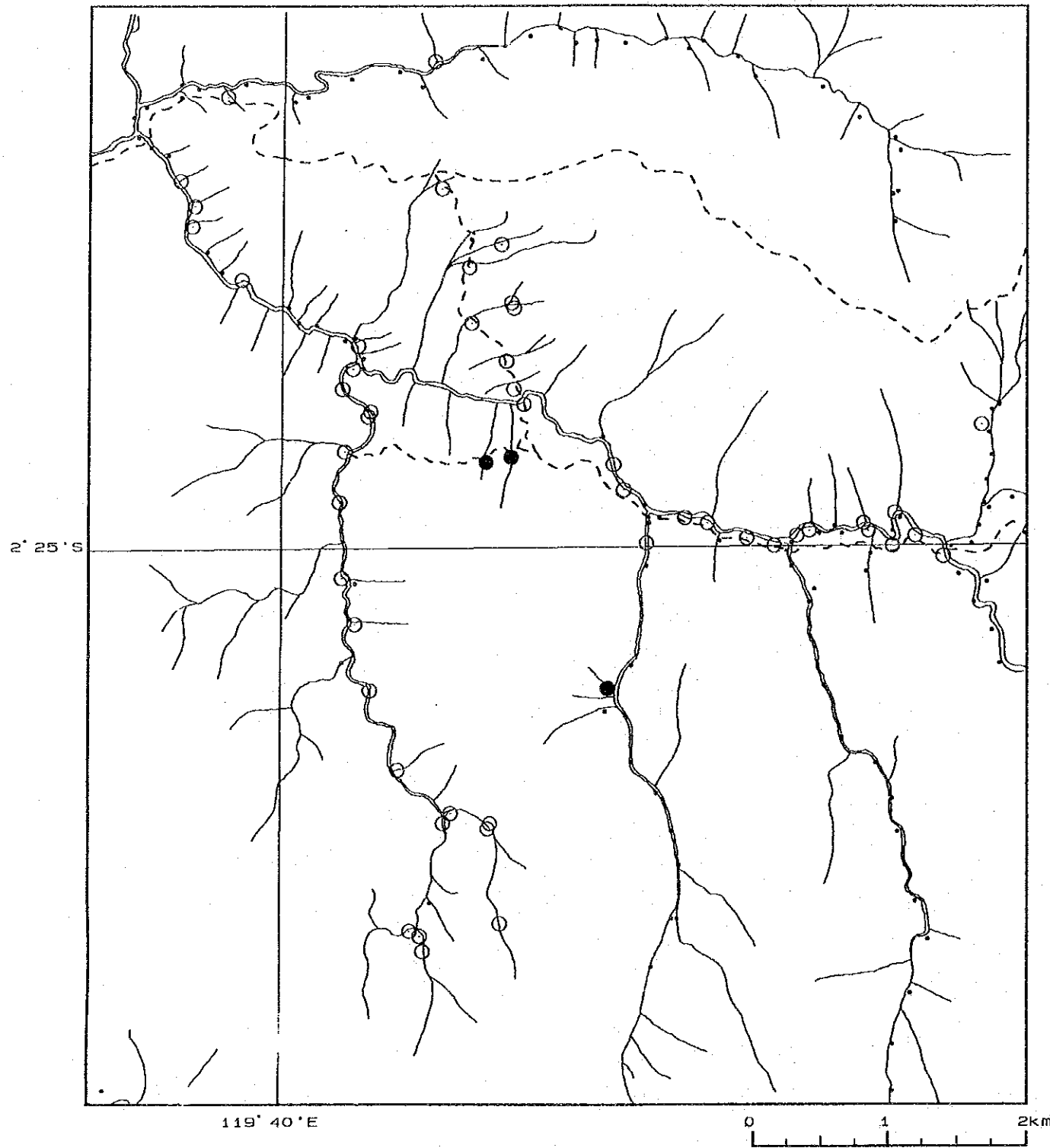
● > 0.19 ppm

○ > 0.11 ppm

• < 0.11 ppm

--- road/track

Bau Area



Stream Sediment Geochemistry

Cu

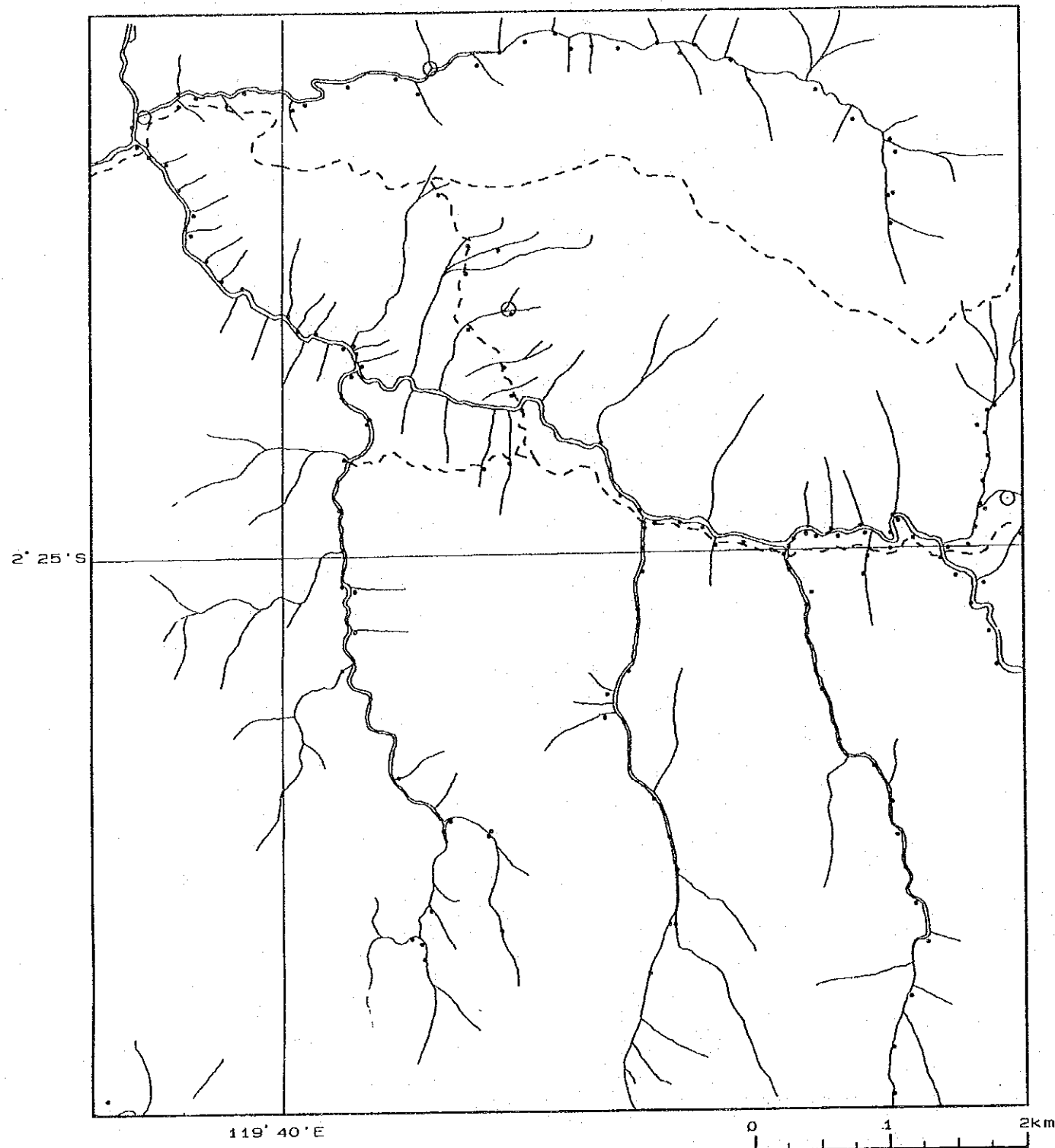
● >92.39 ppm

○ >38.09 ppm

• <38.09 ppm

----- road/track

Bau Area



Stream Sediment Geochemistry

Pb

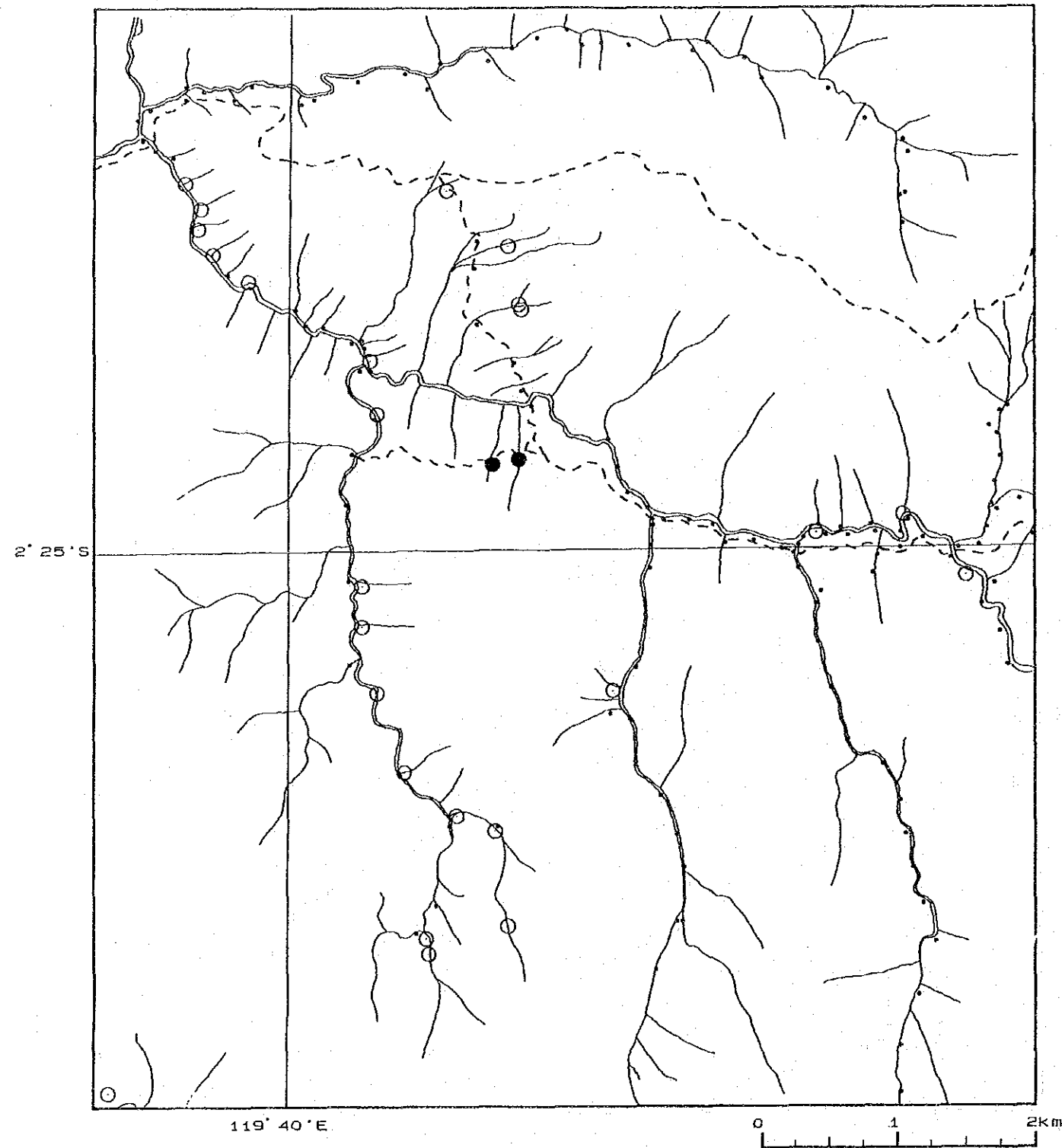
● >65.73 ppm

○ >35.24 ppm

• <35.24 ppm

--- road/track

Bau Area



Stream Sediment Geochemistry

Zn

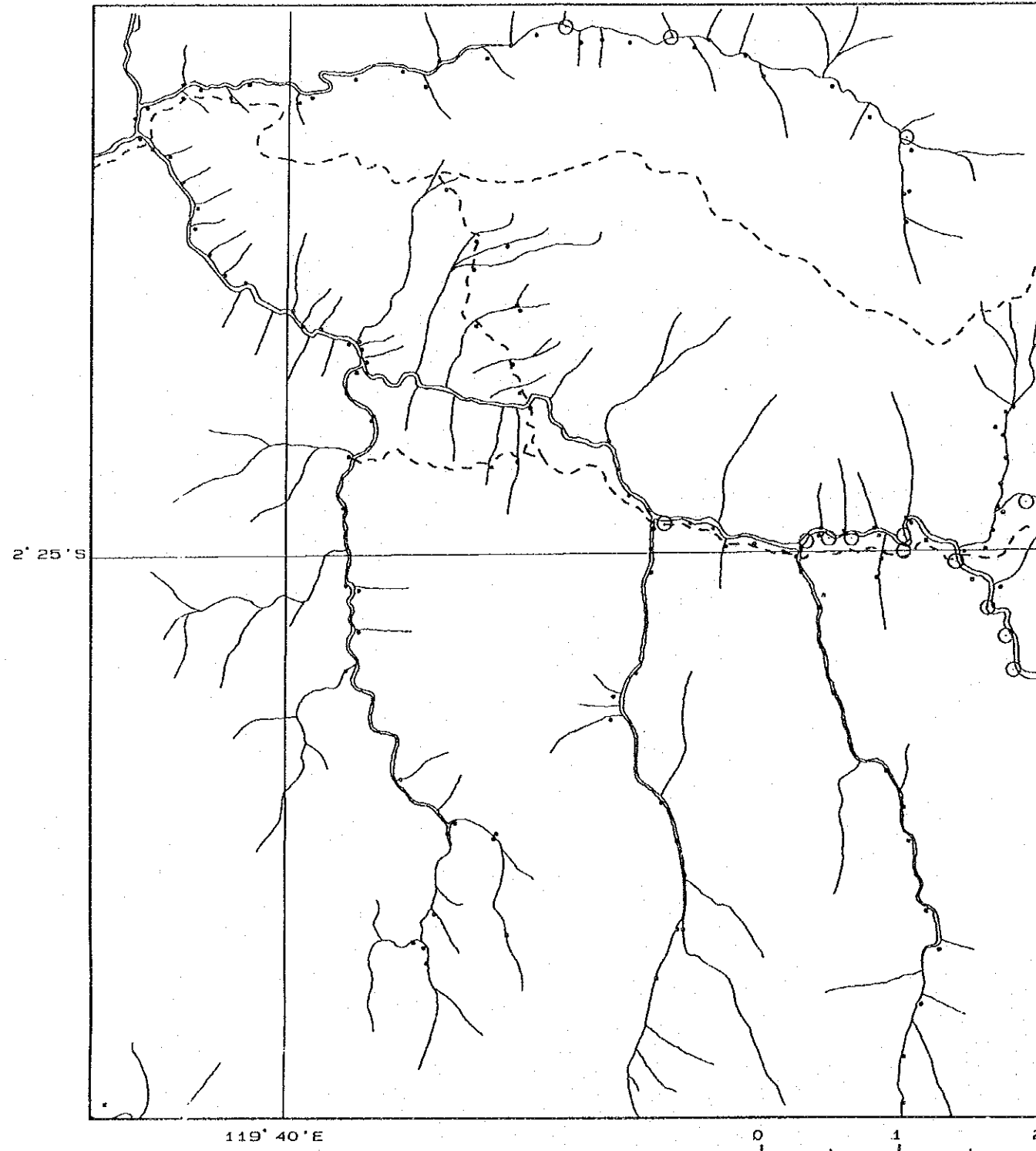
● > 150.27 ppm

○ > 98.70 ppm

• < 98.70 ppm

--- road/track

Bau Area



Stream Sediment Geochemistry

Ba

● >3780.36ppm

○ >1883.15ppm

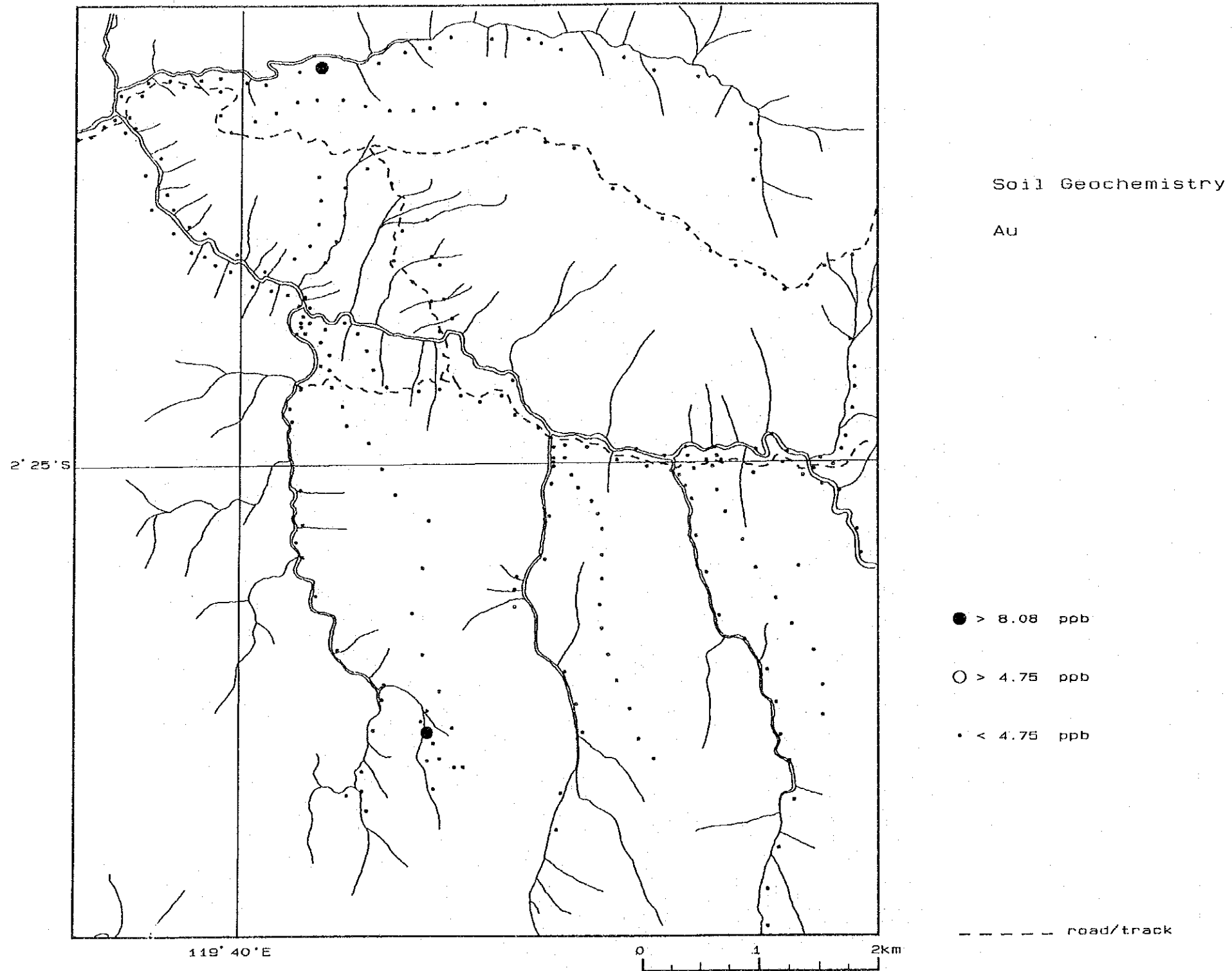
• <1883.15ppm

----- road/track

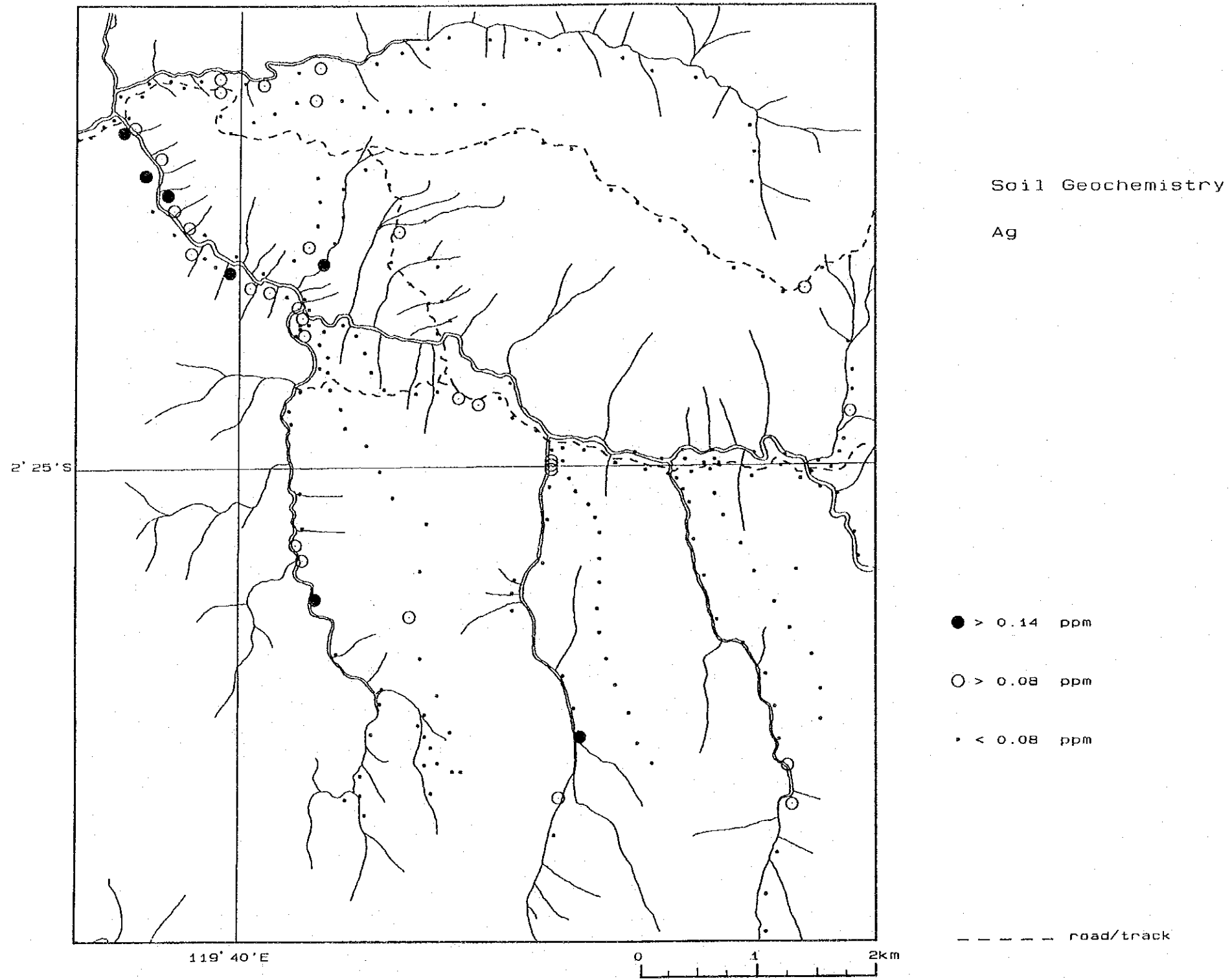
APP. 5

Anomalies of Soil Geochemistry
(Bau Prospect, 1991)

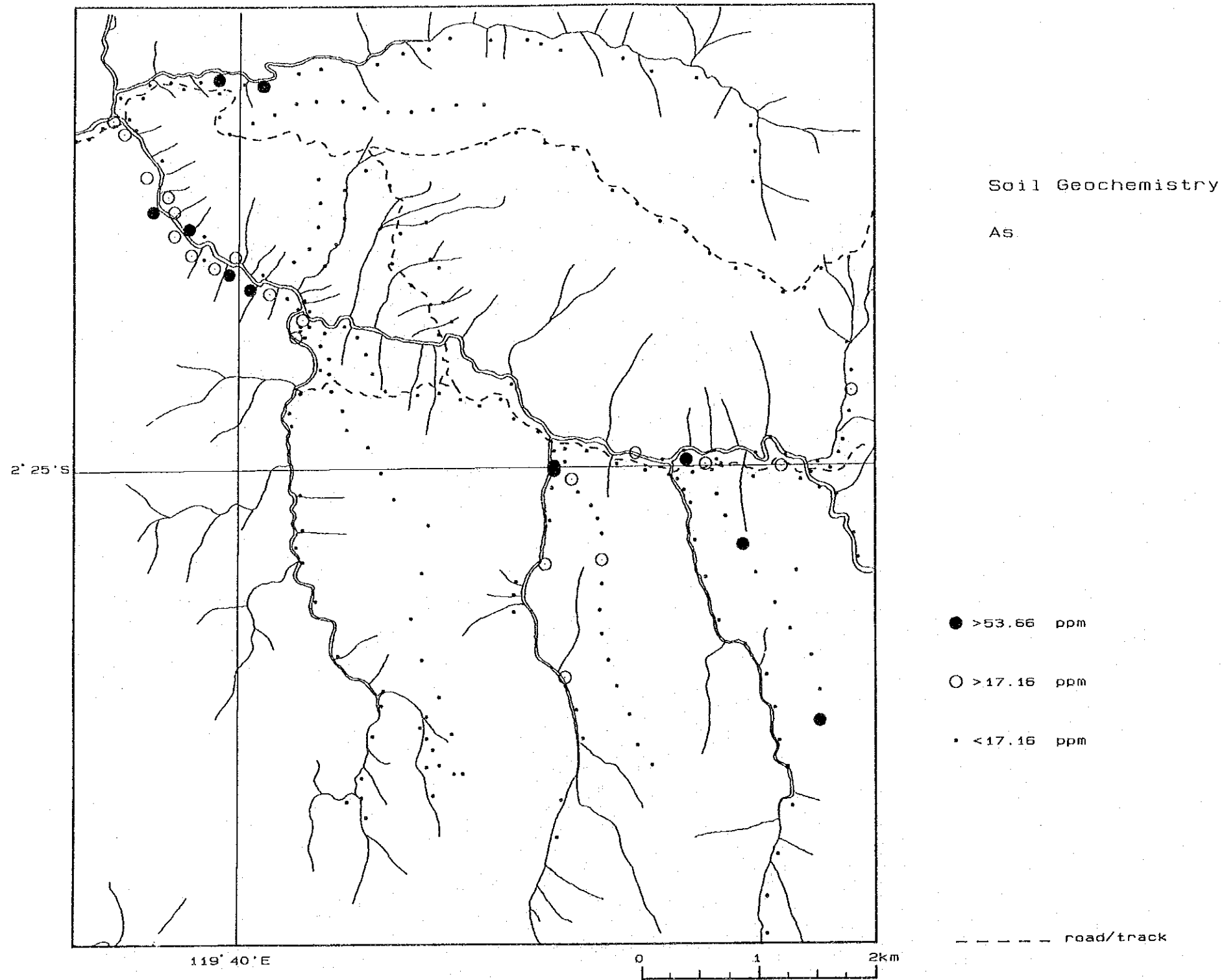
Bau Area



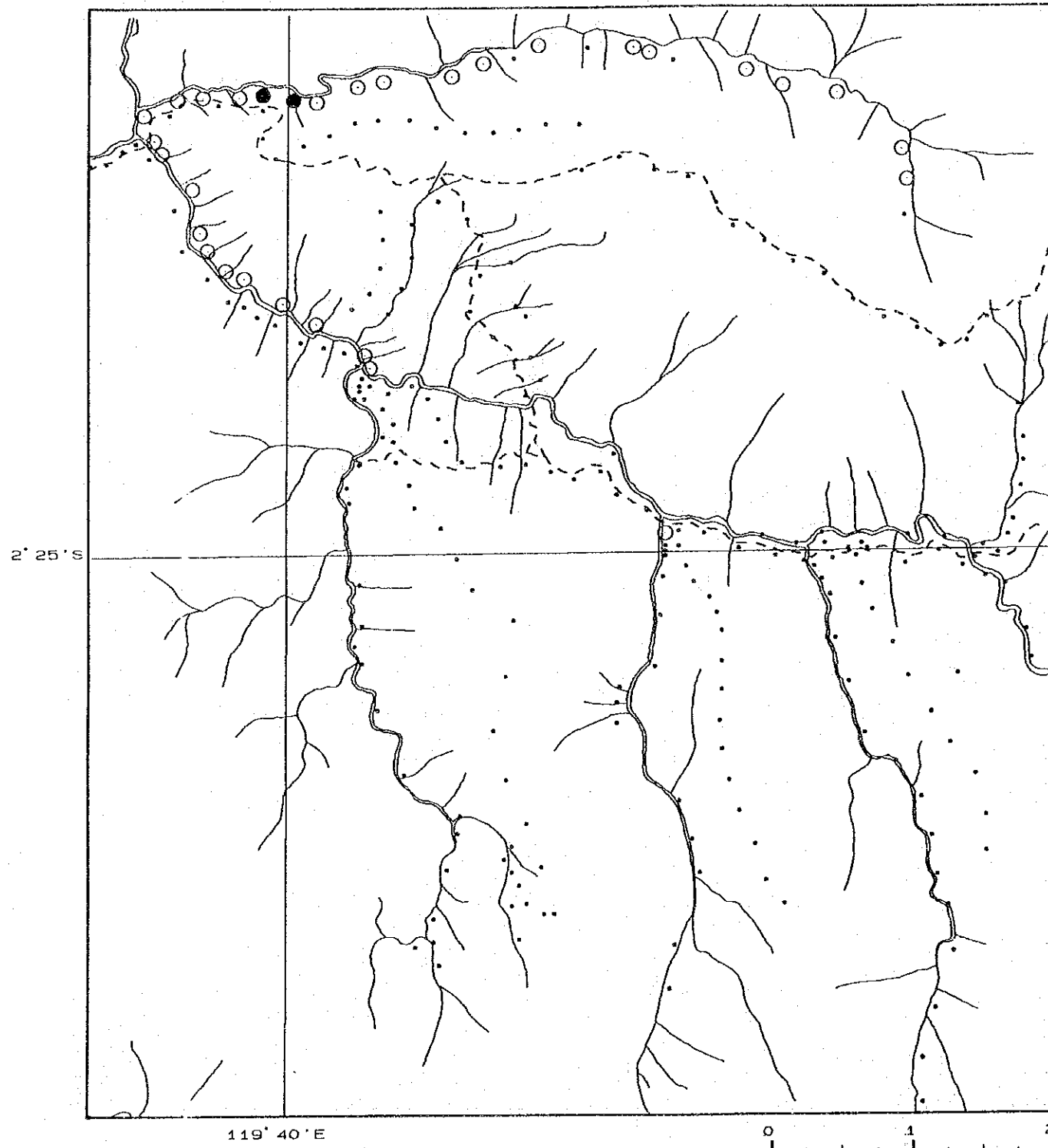
Bau Area



Bau Area



Bau Area



Soil Geochemistry

Bi

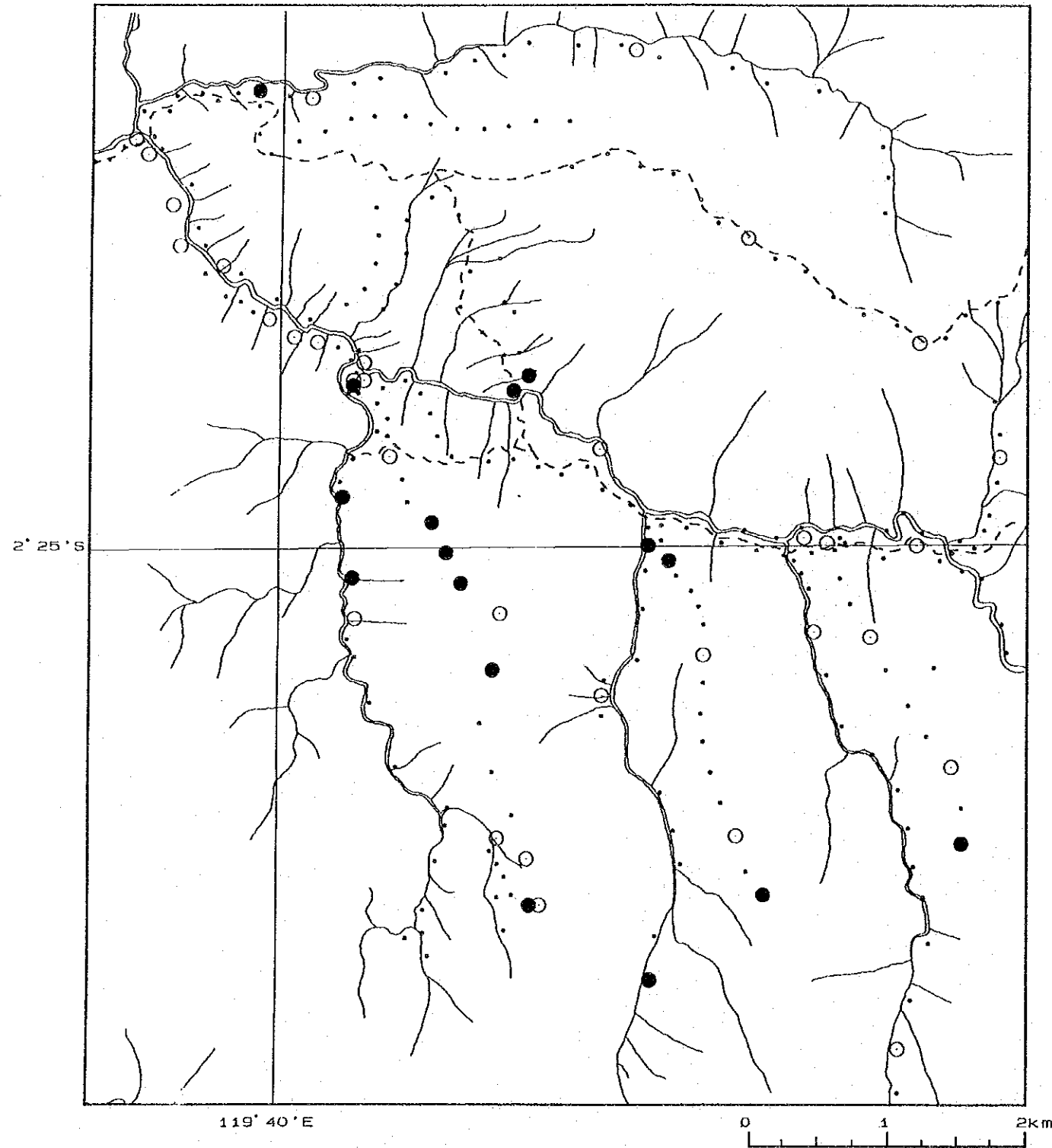
● > 1.76 ppm

○ > 0.80 ppm

• < 0.80 ppm

--- road/track

Bau Area



Soil Geochemistry

Sb

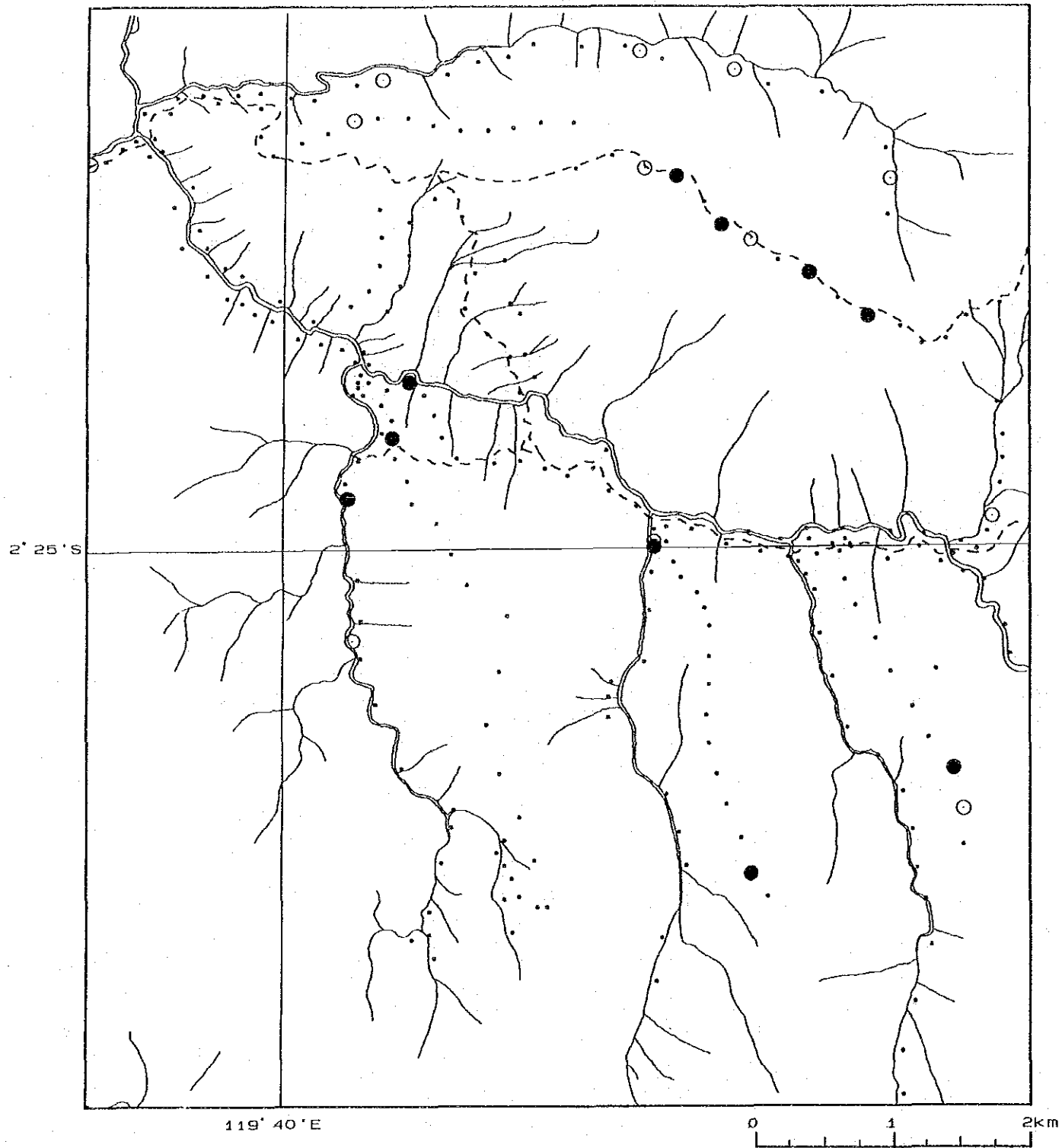
● > 2.00 ppm

○ > 0.72 ppm

• < 0.72 ppm

--- road/track

Bau Area



Soil Geochemistry

Hg

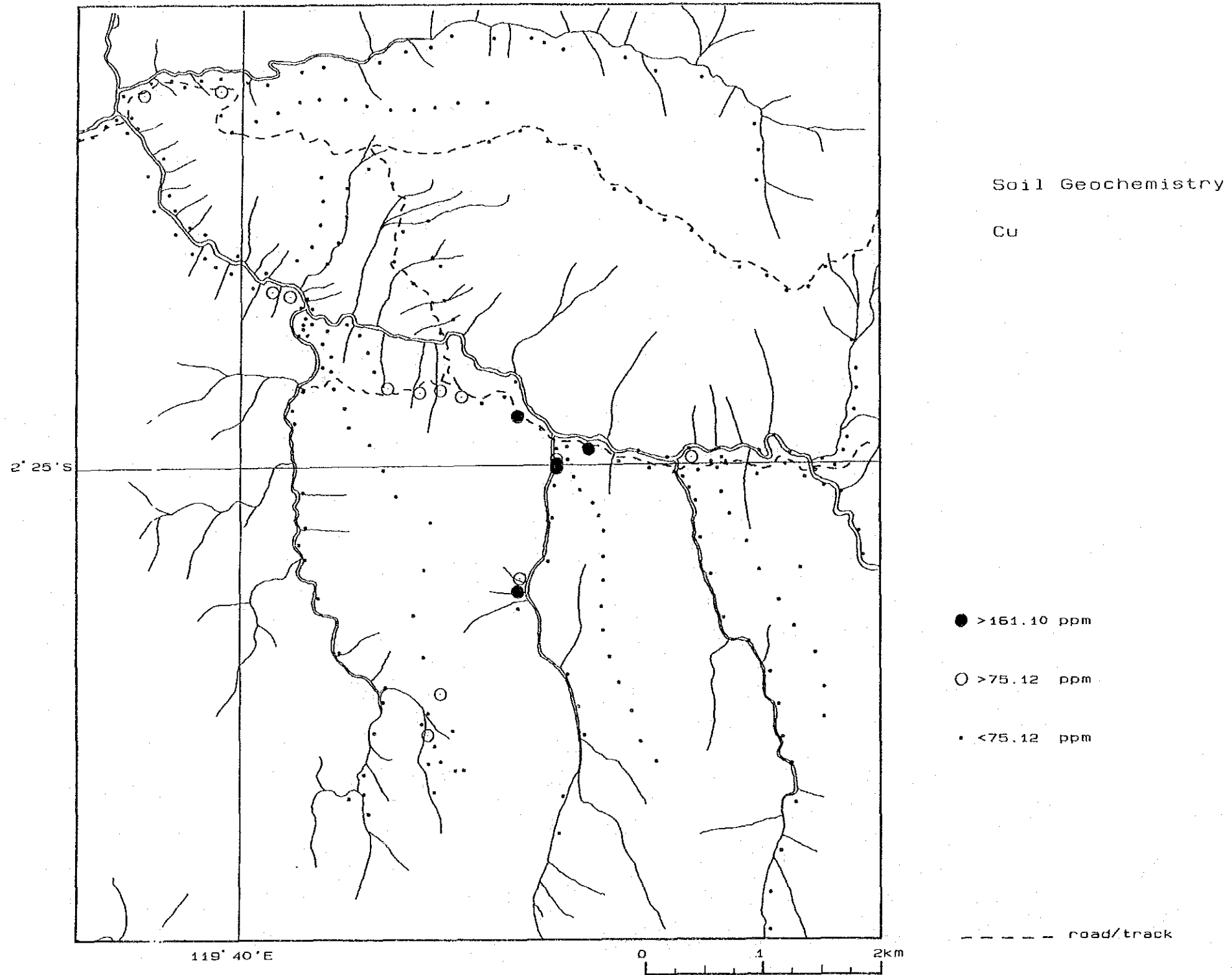
● > 0.22 ppm

○ > 0.12 ppm

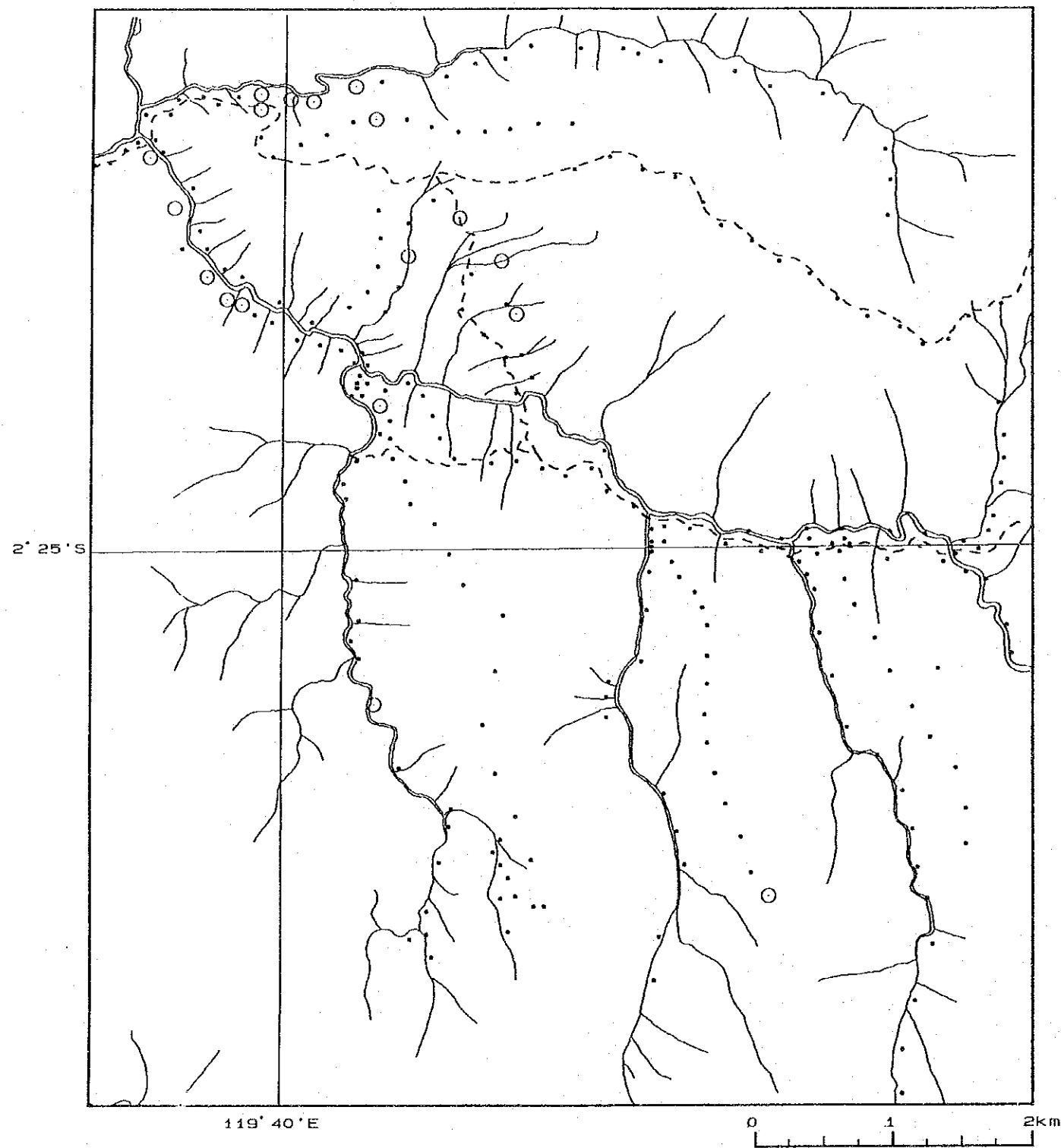
• < 0.12 ppm

----- road/track

Bau Area



Bau Area



Soil Geochemistry

Pb

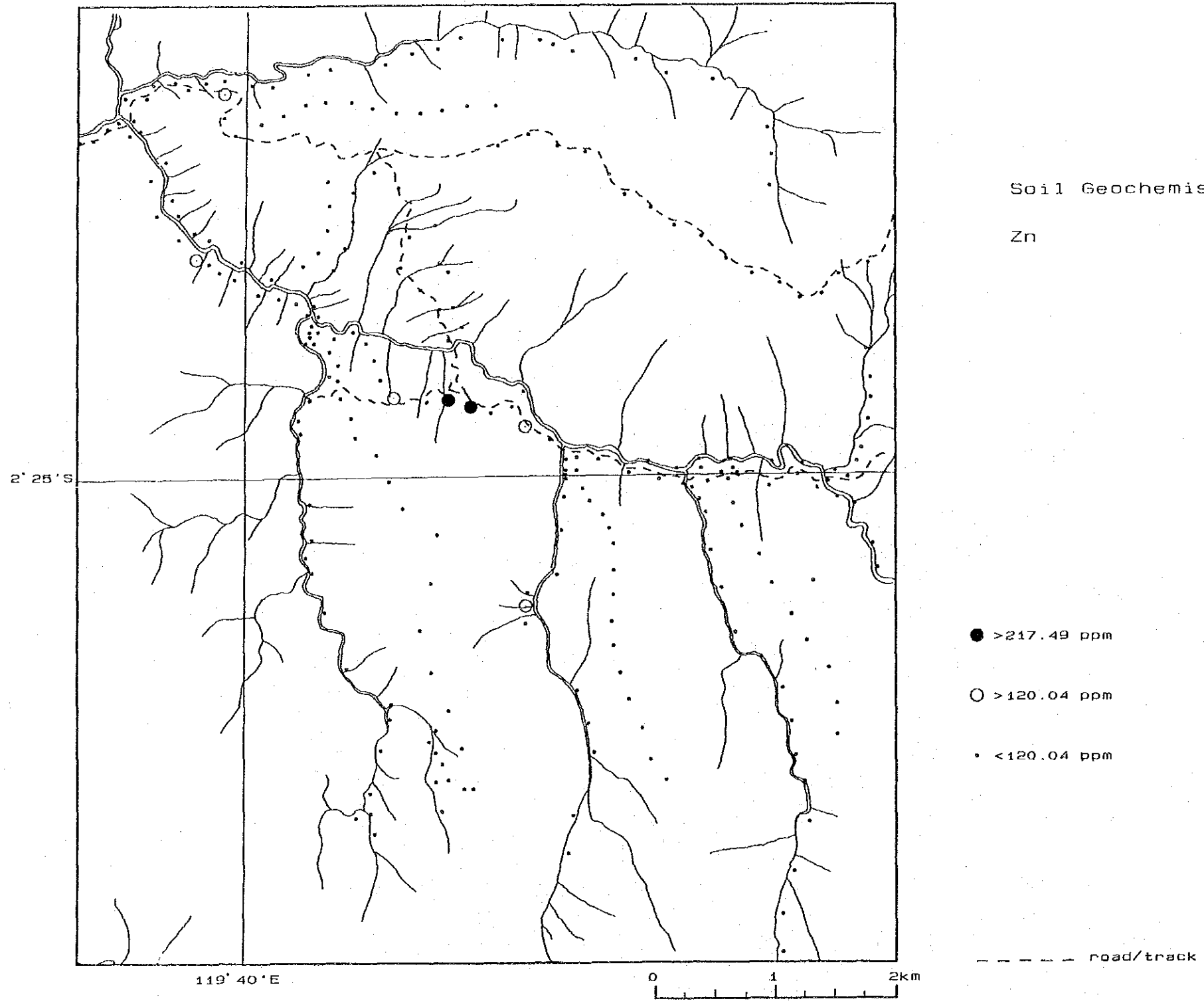
● >86.77 ppm

○ >29.35 ppm

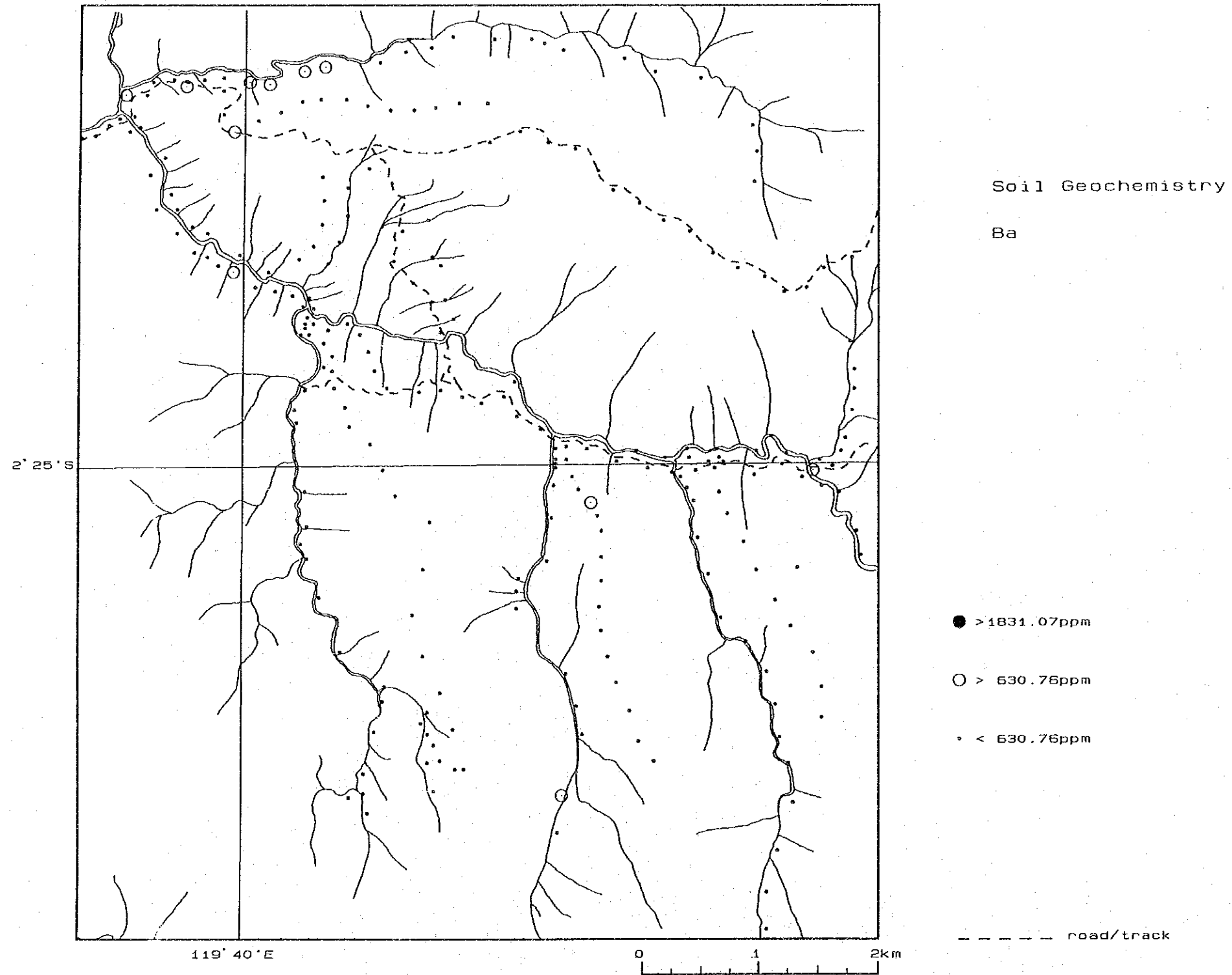
• <29.35 ppm

----- road/track

Bau Area



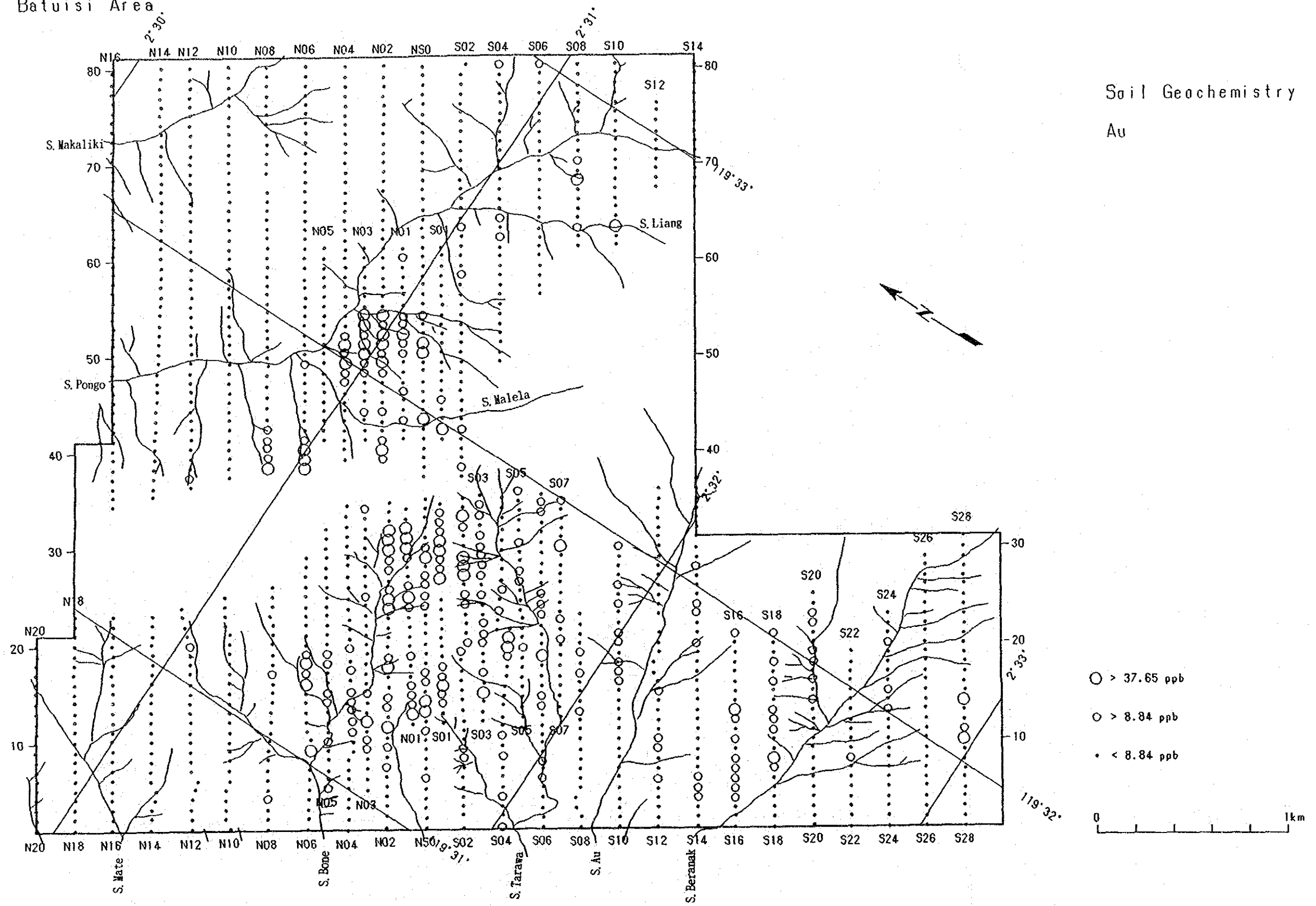
Bau Area



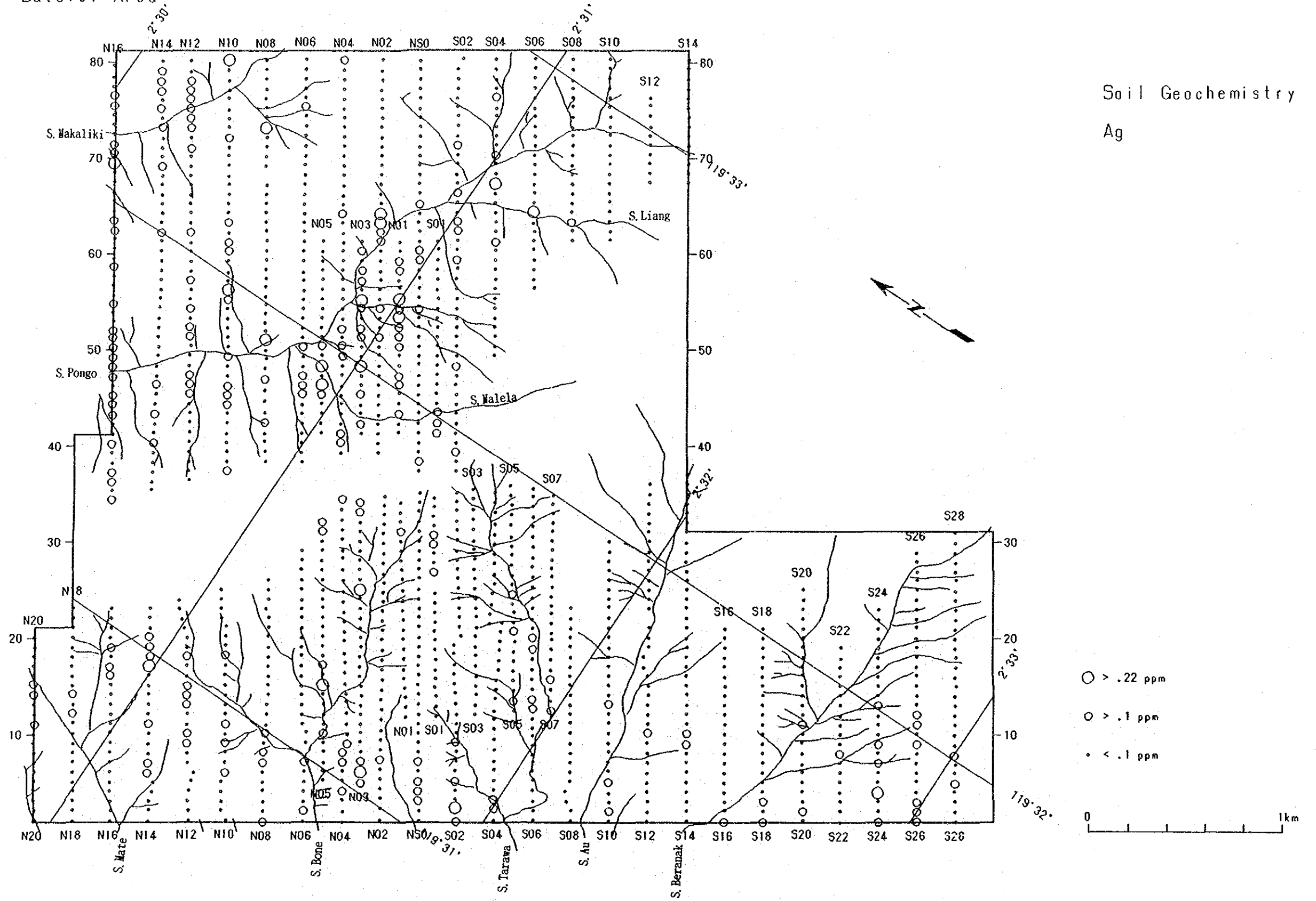
APP. 6

Anomalies of Soil Geochemistry
(Batuisi Prospect, 1992)

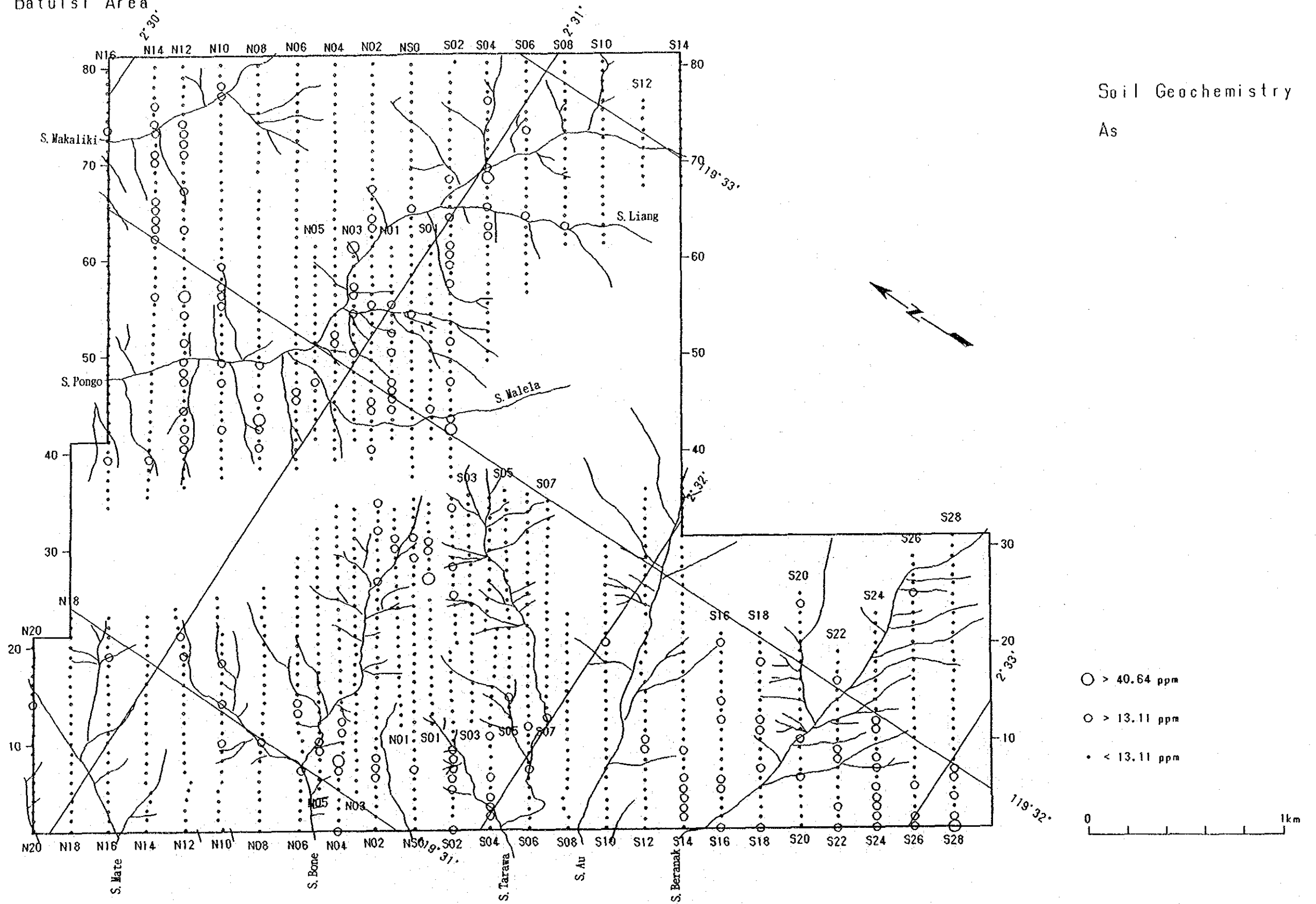
Batuisi Area



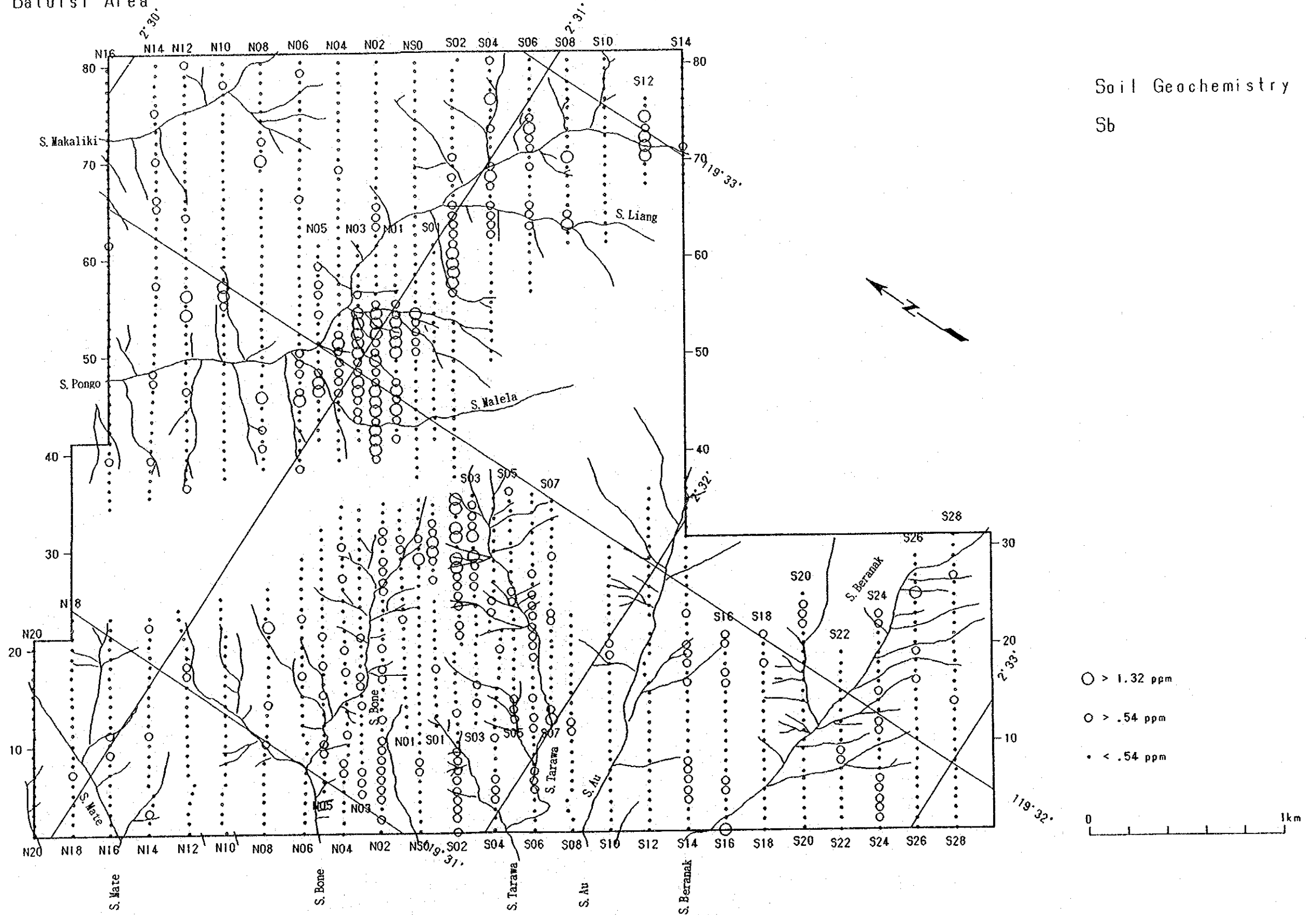
Batusi Area



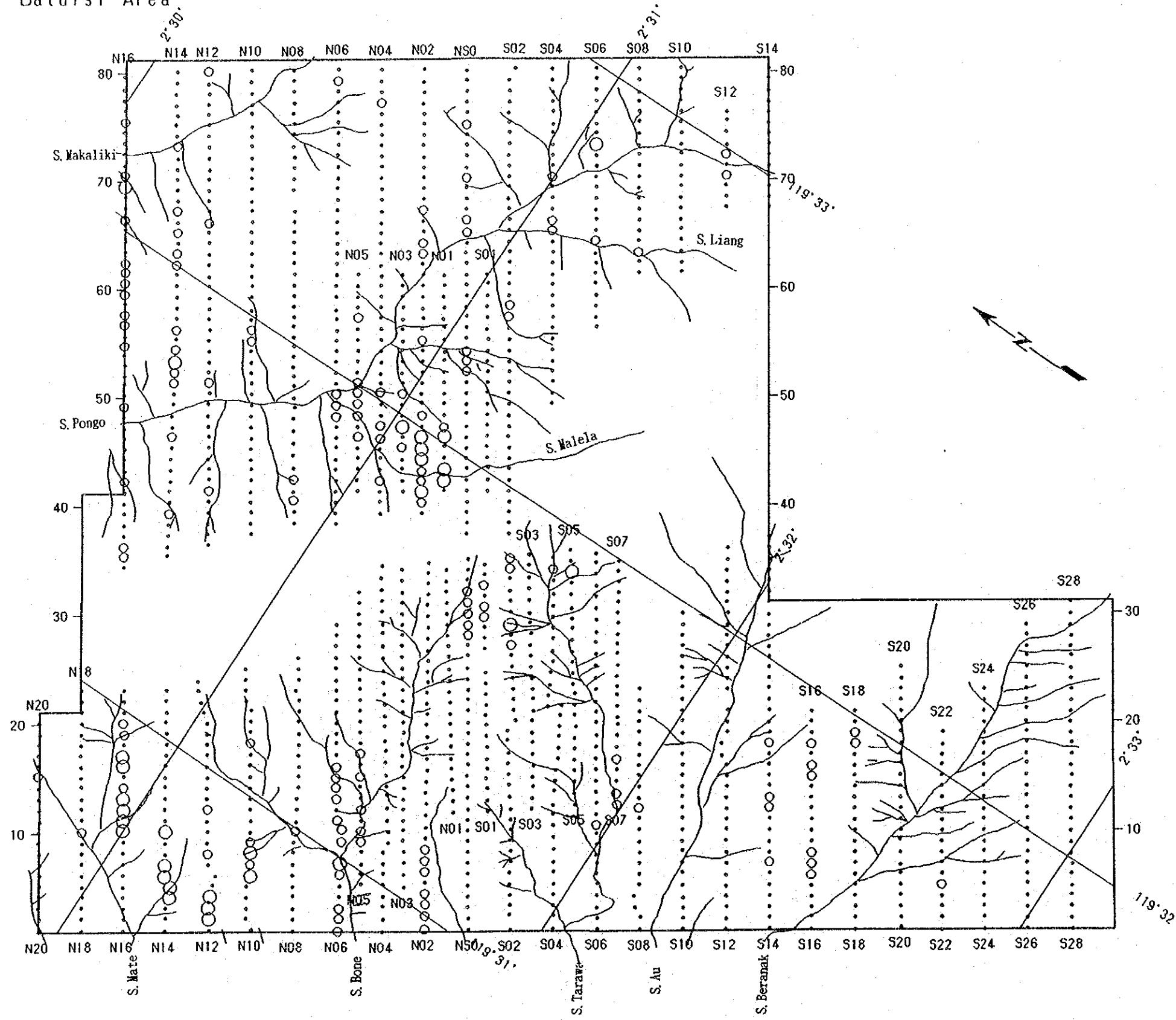
Batusi Area



Batuisi Area

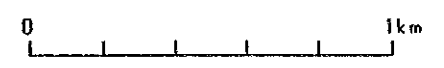


Batuisi Area

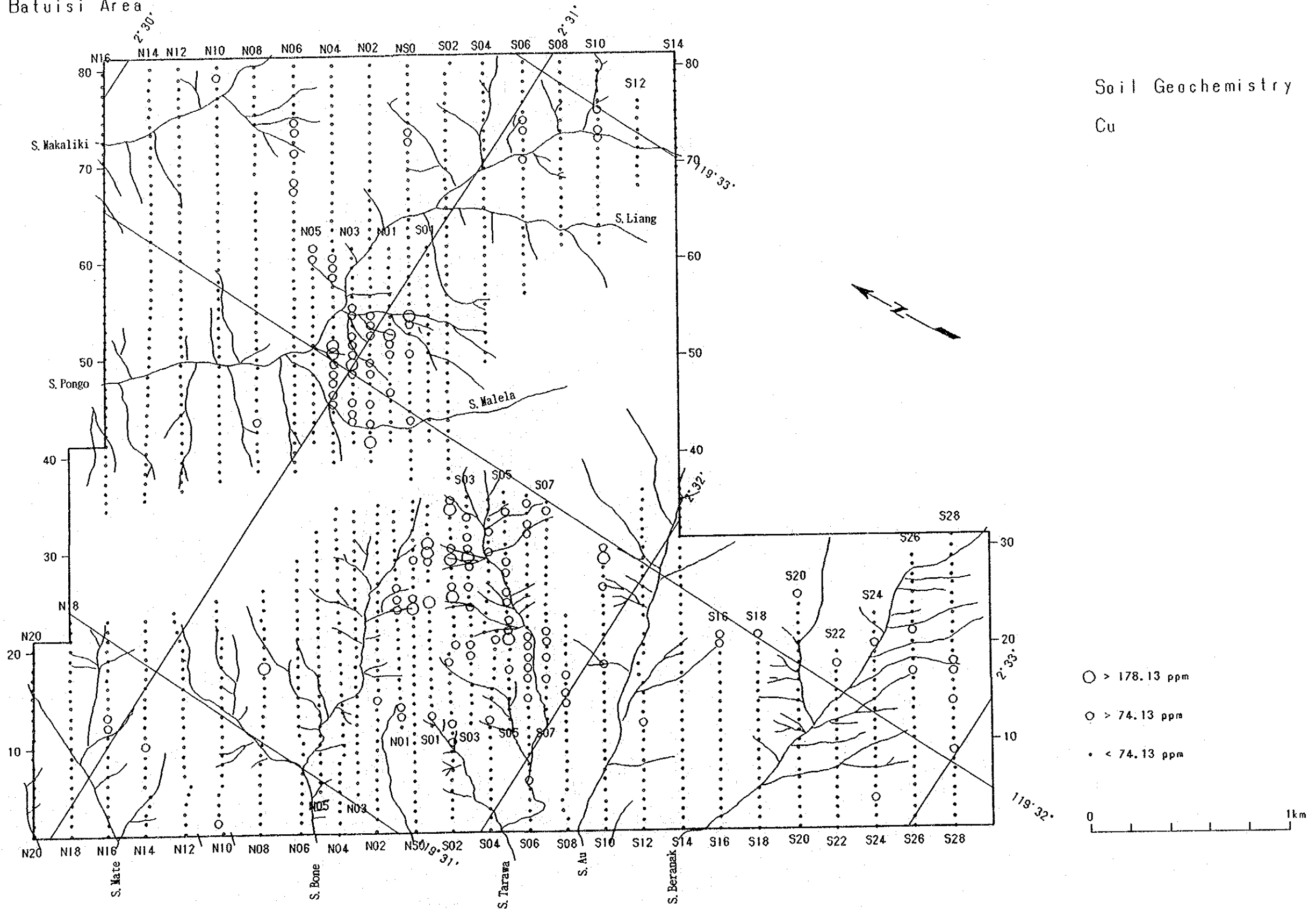


Soil Geochemistry
Hg

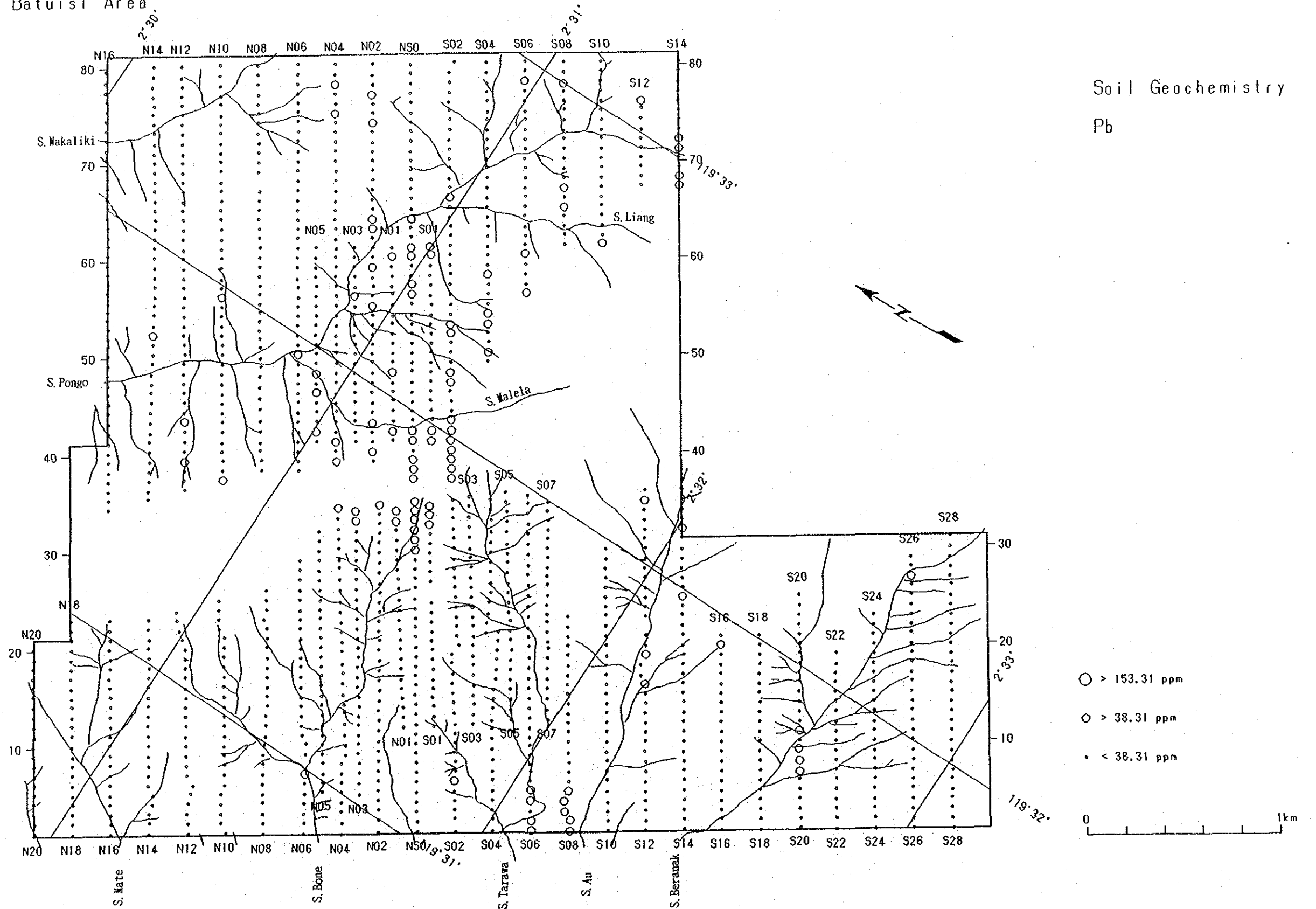
- > 149.75 ppb
- > 92.85 ppb
- < 92.85 ppb



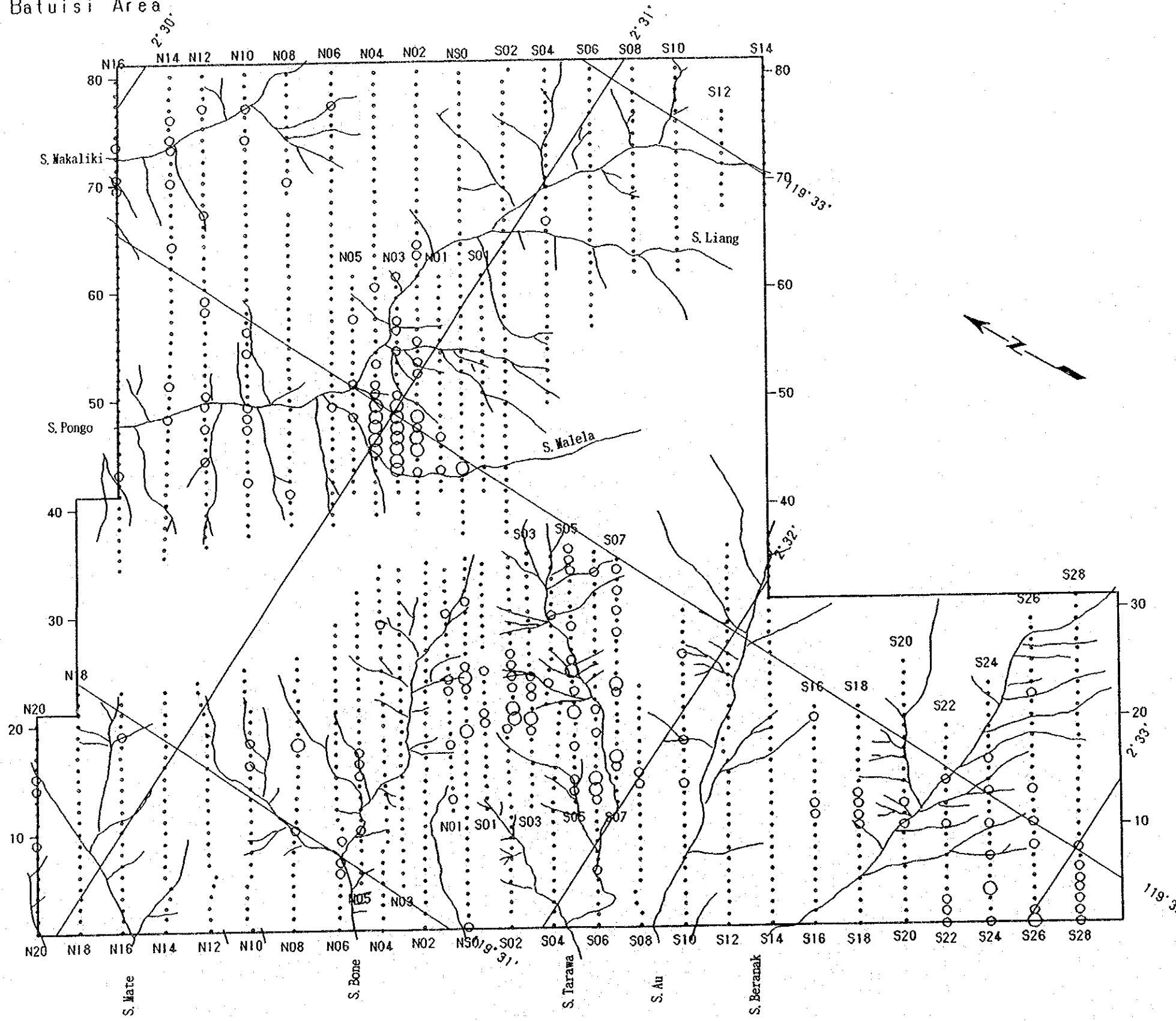
Batuisi Area



Batuisi Area

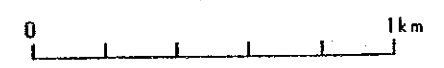


Batuisi Area



Soil Geochemistry
Zn

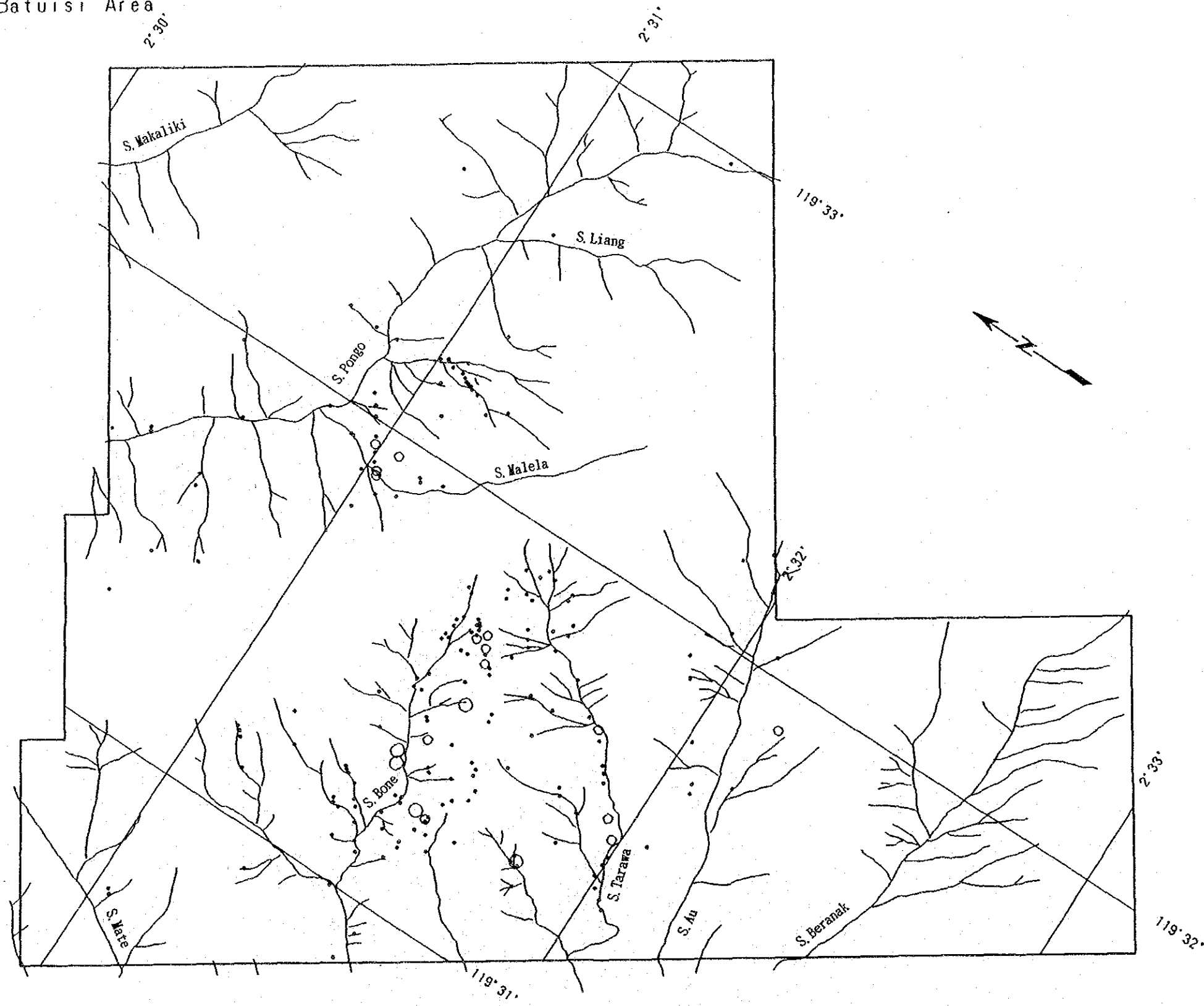
- > 173.38 ppm
- ◐ > 107.64 ppm
- < 107.64 ppm



APP. 7

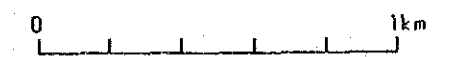
Anomalies of Rock-chip Geochemistry
(Batuisi Prospect)

Batuisi Area

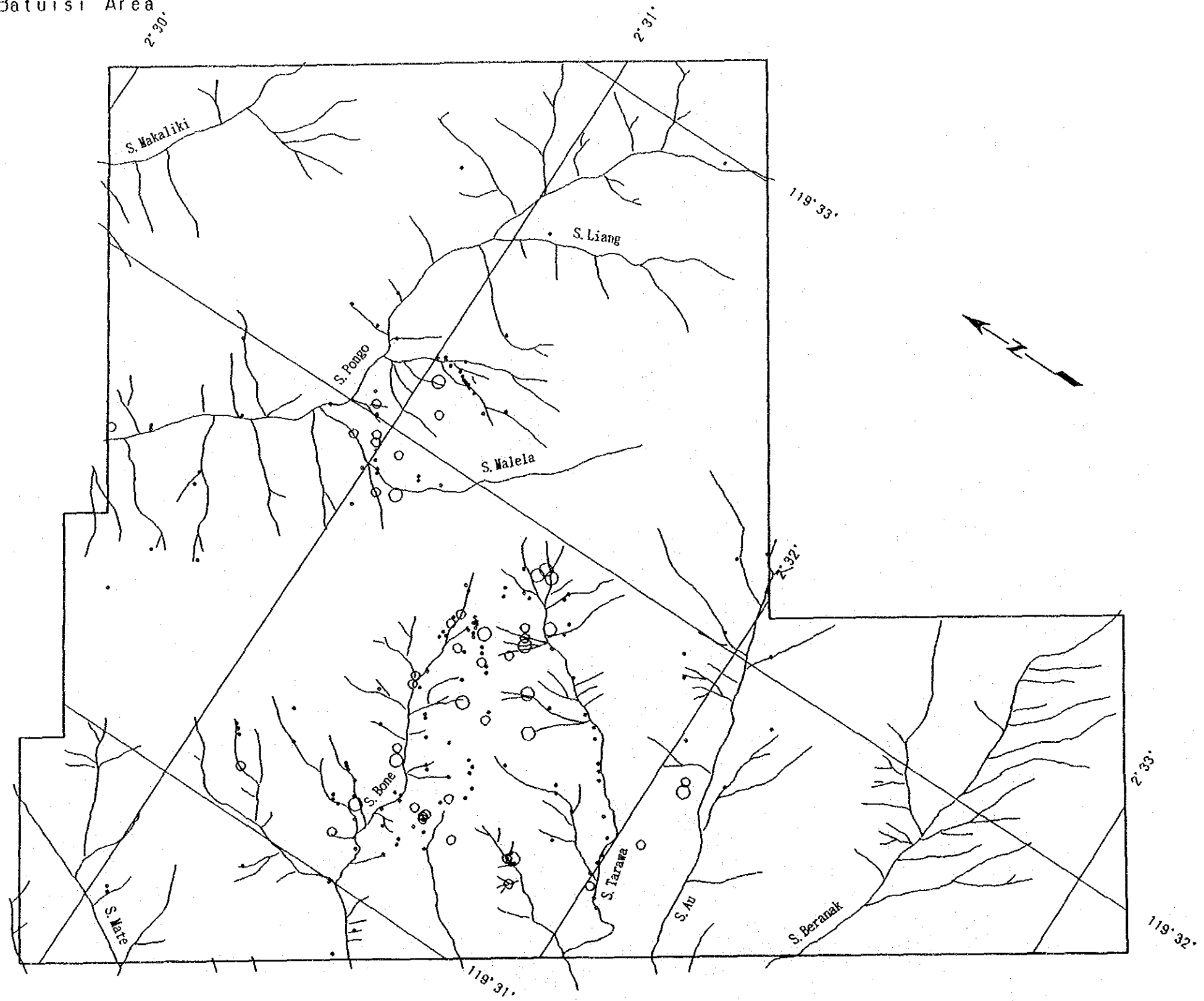


Rock Geochemistry
Au

- > 153.56 ppb
- > 25.84 ppb
- < 25.84 ppb

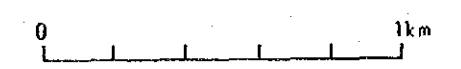


Batuisi Area

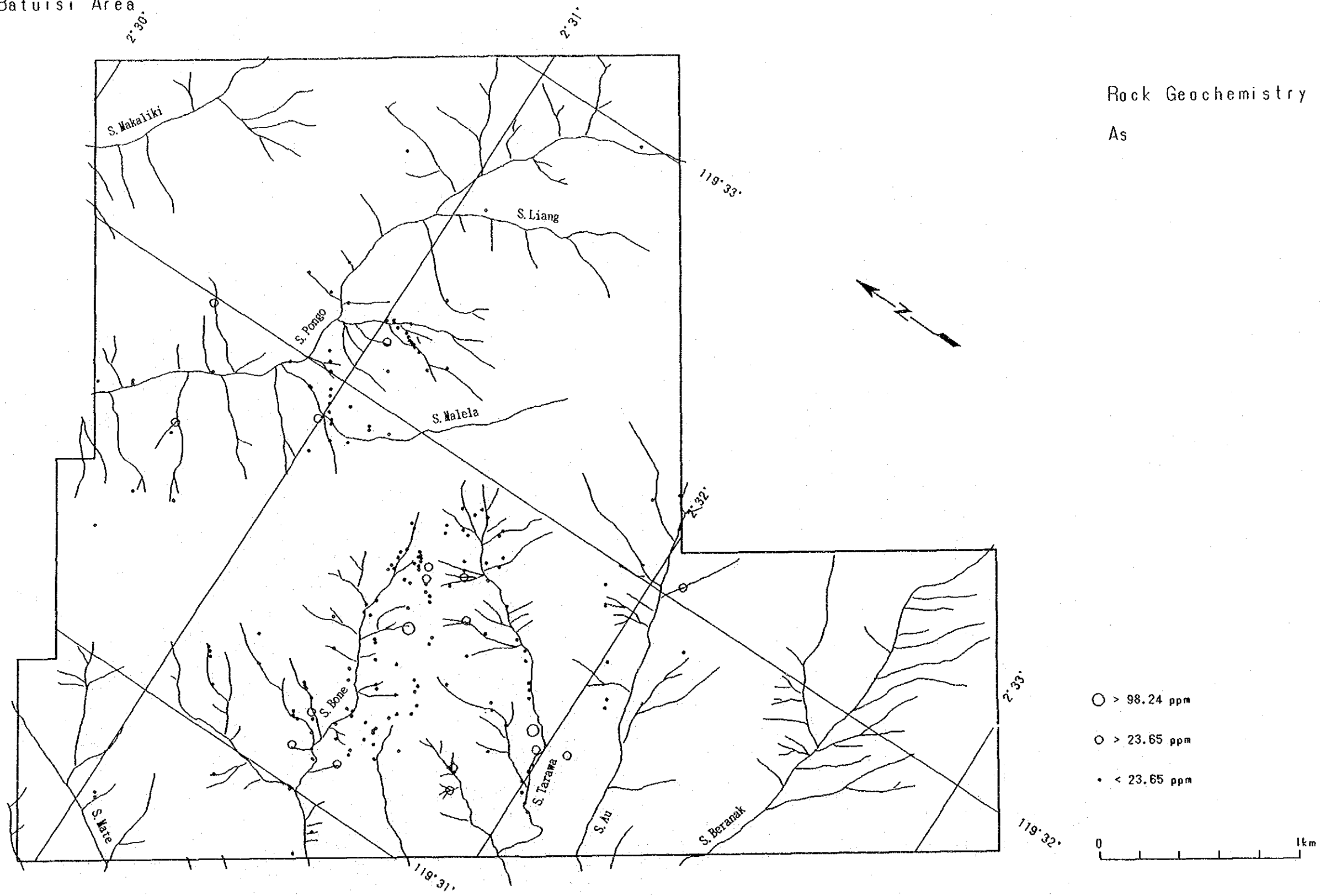


Rock Geochemistry
Ag

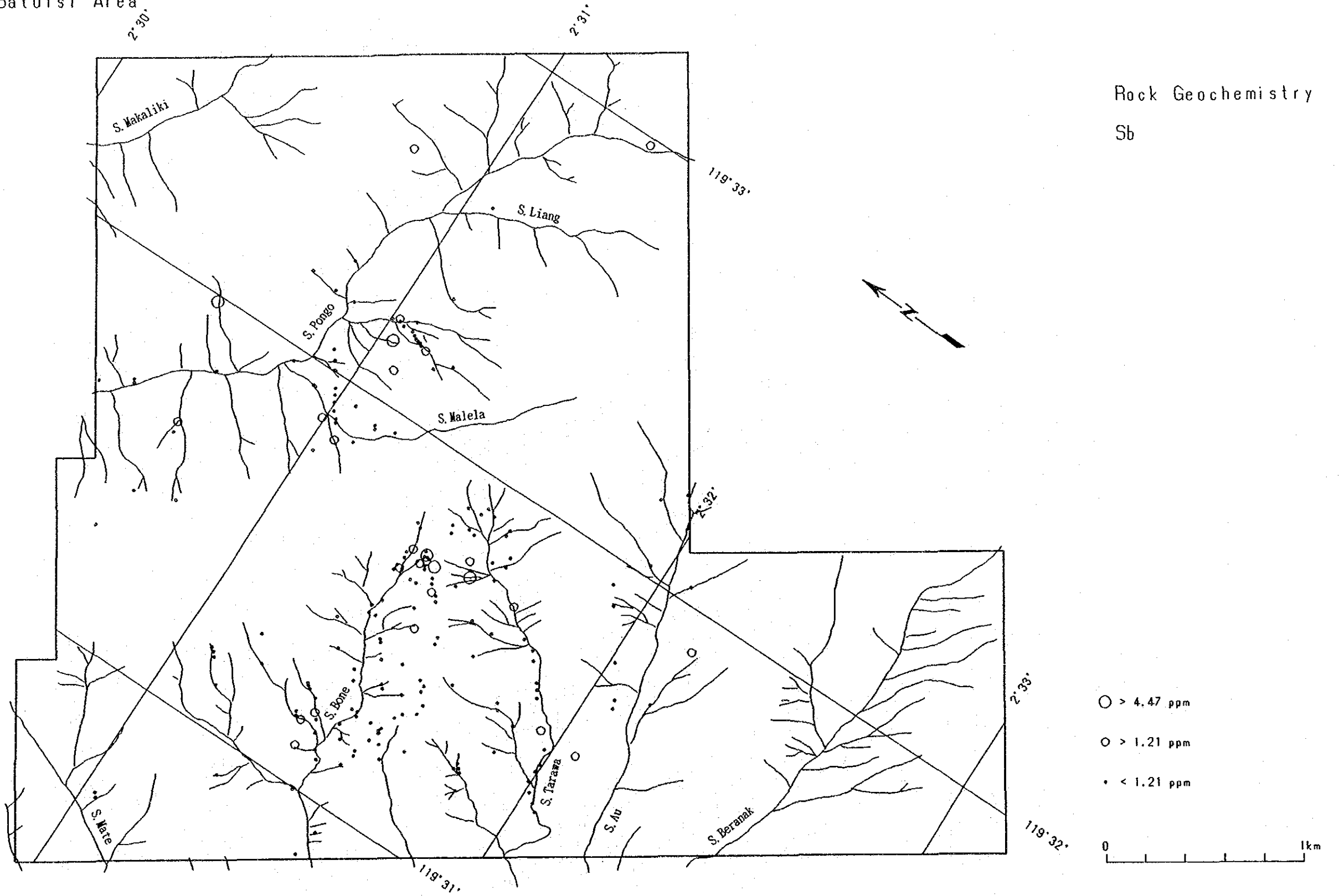
- > .56 ppm
- > .14 ppm
- < .14 ppm



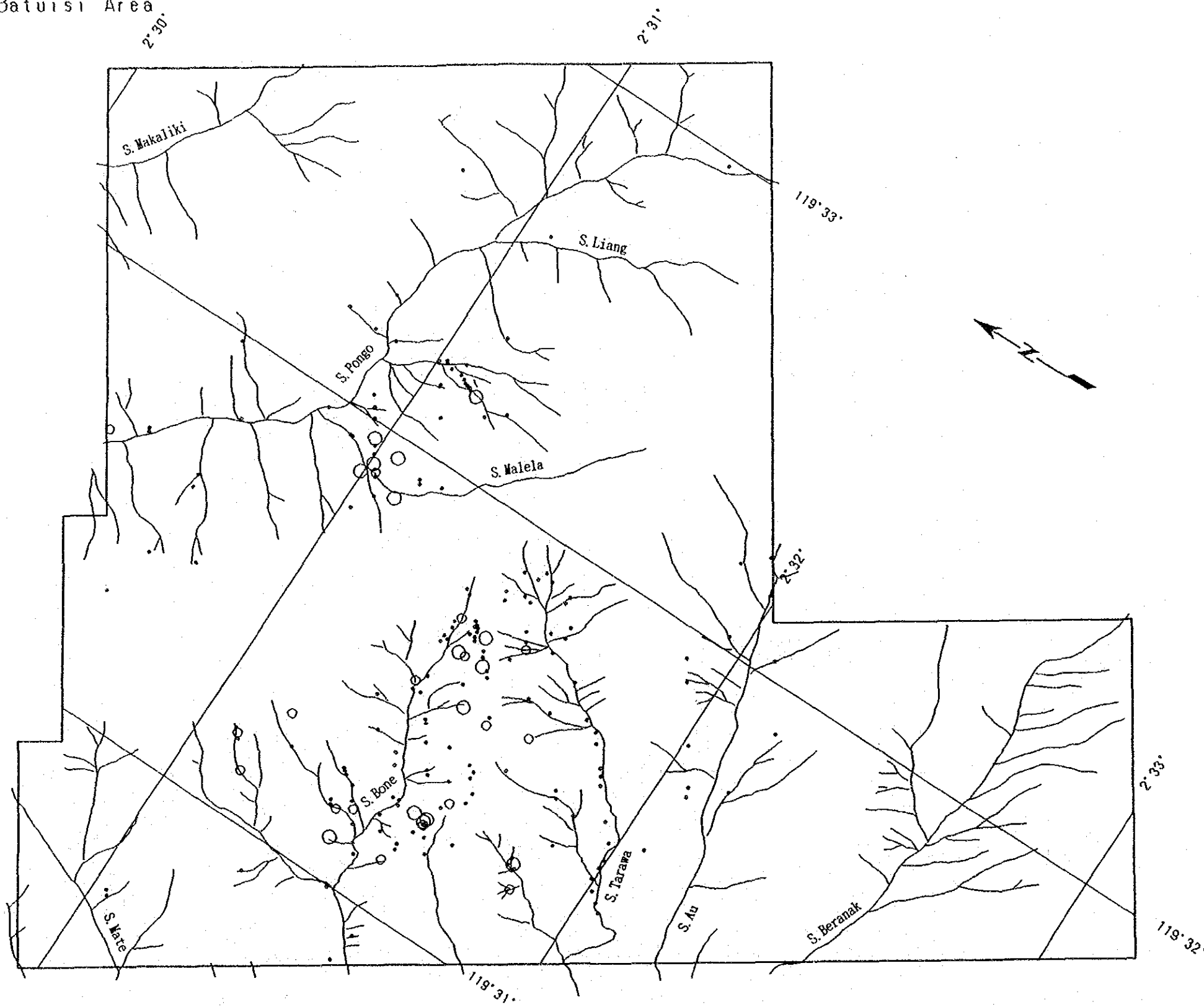
Batuisi Area



Batuisi Area

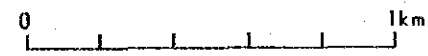


Batuisi Area

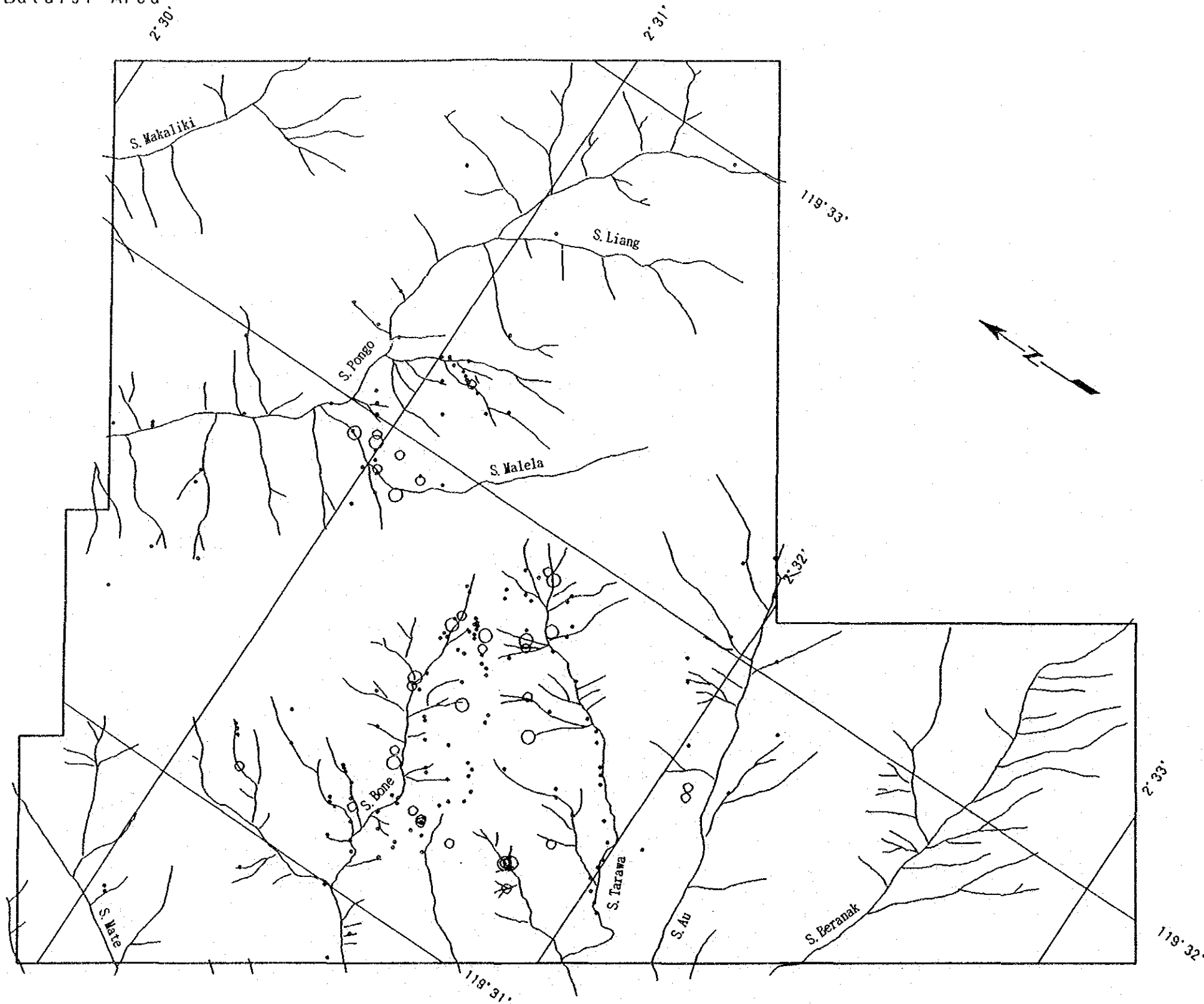


Rock Geochemistry
Hg

- > 431.75 ppb
- > 160.86 ppb
- < 160.86 ppb



Batuisi Area

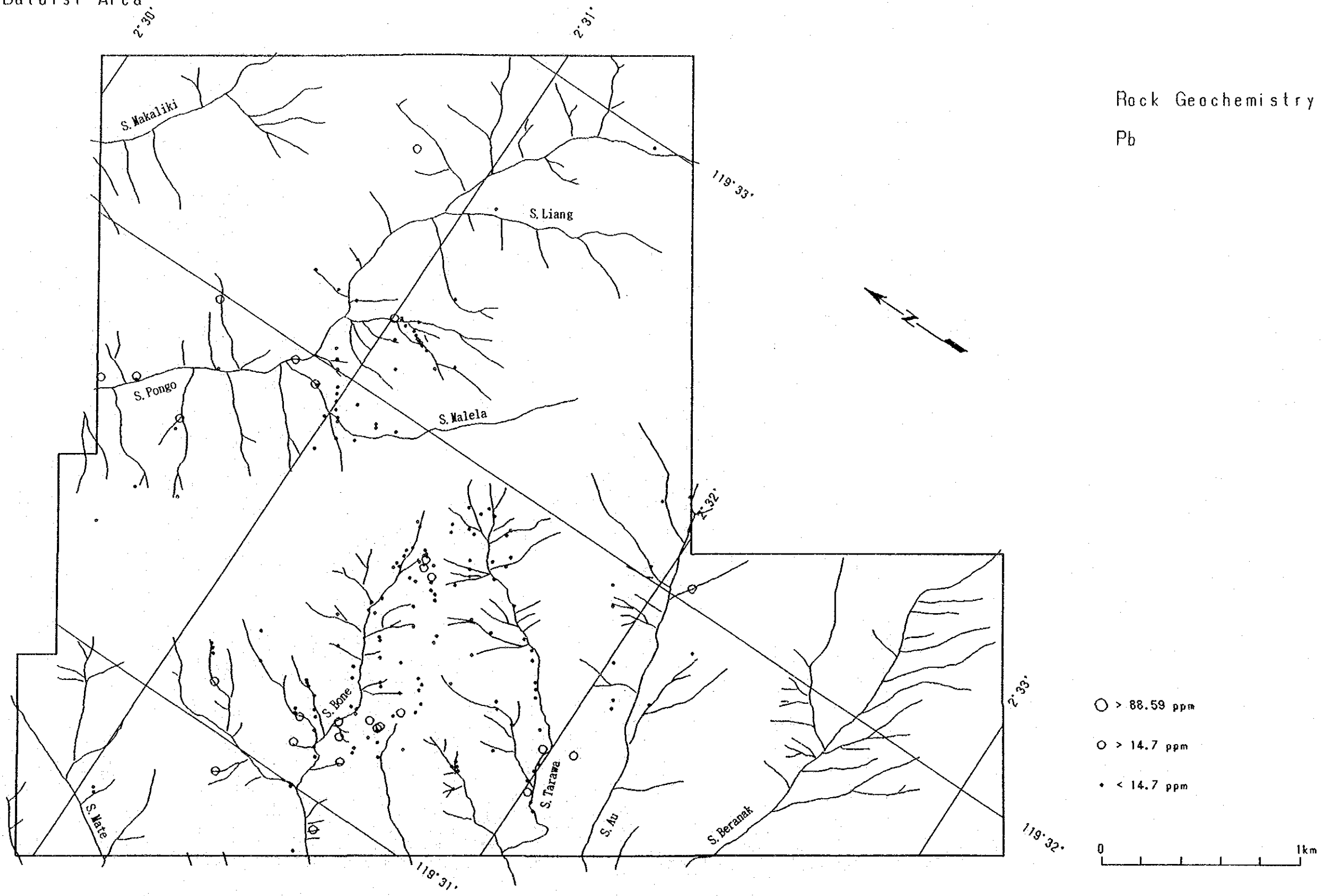


Rock Geochemistry
Cu

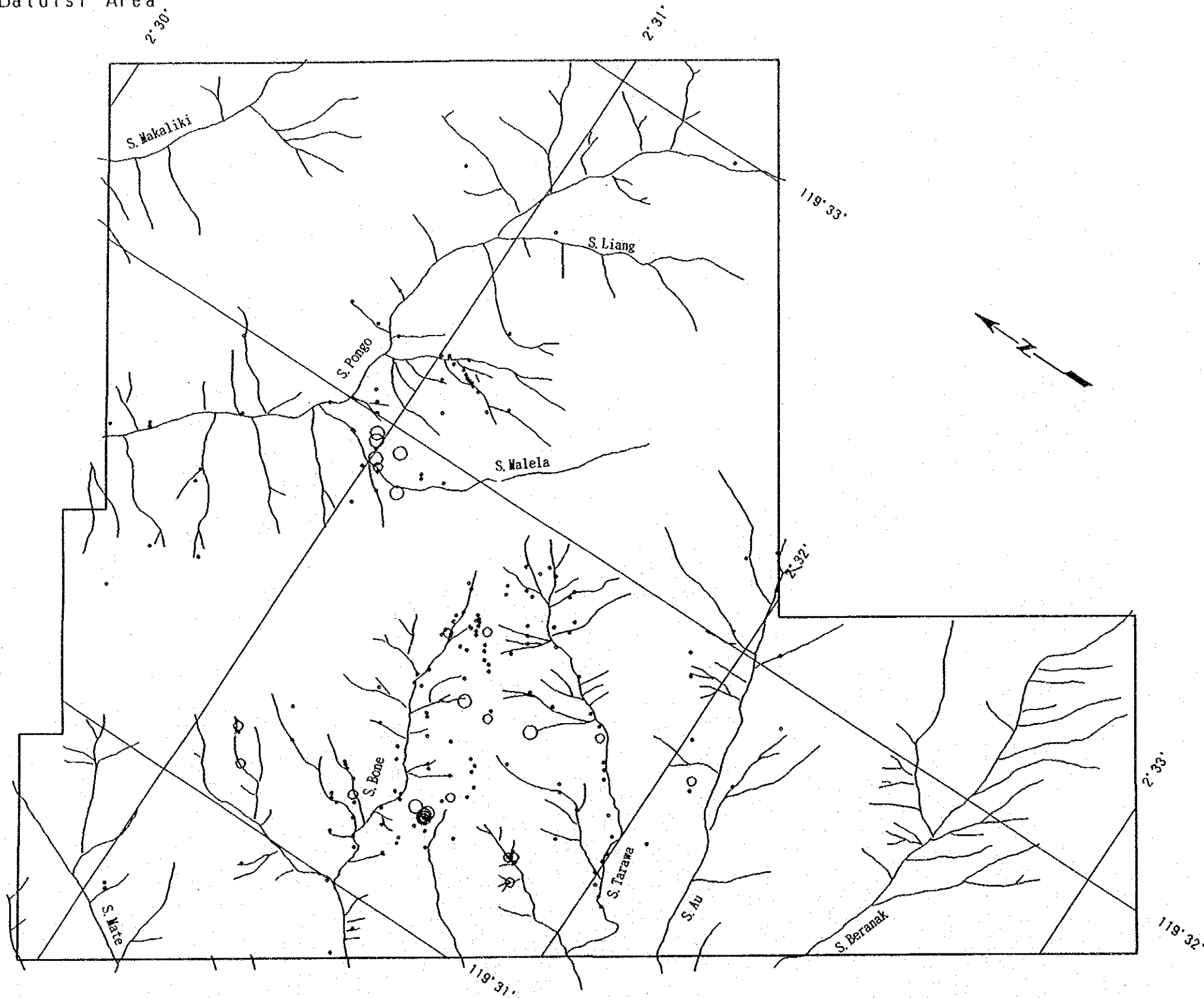
- > 957.58 ppm
- > 284.41 ppm
- < 284.41 ppm



Batuisi Area



Batuisi Area



Rock Geochemistry
Zn

- > 865.67 ppm
- > 273.02 ppm
- < 273.02 ppm

