



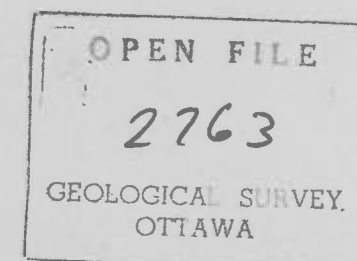
Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources  
Mineral Resources Division  
Geological Survey Branch  
Environmental Geology Section

## BRITISH COLUMBIA REGIONAL GEOCHEMICAL SURVEY

### NTS 104M - SKAGWAY

STREAM SEDIMENT AND WATER GEOCHEMICAL MAPS

W. Jackaman and P.F. Matysek

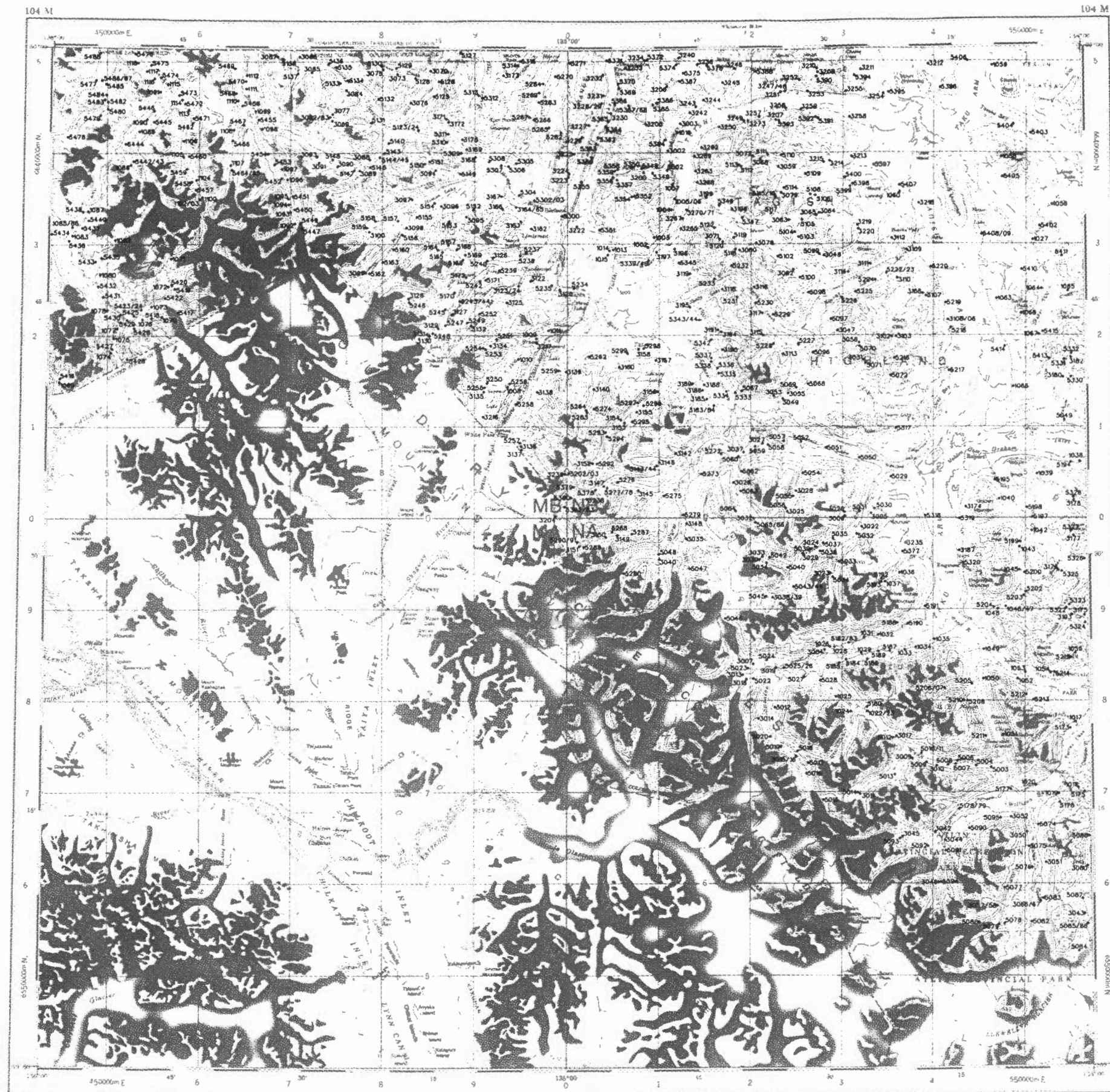


MEMPR BC RGS 37

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104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

Magnetic declination 1990 varies from 27°47' easterly at centre  
of west edge to 28°08' easterly at centre of east edge.  
Mean annual change decreasing 12.2'.

Contour Interval 500 Feet  
Elevations in Feet above Mean Sea Level  
Transverse Mercator Projection

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BC RGS 37

SAMPLE LOCATION MAP

Map 1

Topographic base map is based on information taken from NTS map sheet 104M © 1990. Her  
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104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

# 104M BEDROCK GEOLOGY (modified from Mihayuk and Smith, 1993)

## QUATERNARY DEPOSITS

Qal Extensive areas of unconsolidated glacial till and poorly sorted alluvium.

## INTRUSIVE ROCKS

eTg, eTgd Coast plutonic complex, dominantly granodiorite and other undifferentiated granitoids.

KTg Late Cretaceous to Eocene granitoid rocks of the Coast Mountains, undifferentiated.

IKg, IKgd Late Cretaceous undifferentiated granitoid rocks; granodiorite. Mainly associated with the Coast plutonic complex.

KG, Kqm Undifferentiated Cretaceous granitoid rocks. In part equivalent to IKg.

eKg, eKl Early Cretaceous undifferentiated granitoid rocks; tonalite.

mlJg Middle or late Jurassic granitoids.

eJgd, eJh Hale Mountain granodiorite and related(?) hornblende (184-187 Ma).

ITgd, ITg Granodiorite, minor leucogranite, quartz diorite, and ITHgabbro of late Triassic age. May be altered or slightly deformed. Includes the Bennett pluton.

PTgd Permo-Triassic(?) intrusive rocks of unknown affinity.

## LATE MESOZOIC/TERTIARY EXTRUSIVE ASSEMBLAGES

Ea Skukum volcanic suite; mainly intra-caldera facies dominated by intermediate to felsic tuffs and flows of Eocene age.

eEs Skoko Group, undivided, aerially extensive rhyolite to andesite breccia and tuff of Early Eocene age.

Pt Tagish volcanic suite; dominantly intra-caldera megabreccia and intermediate to felsic tuffs and flows of Paleocene age.

Km Montana Mountain suite. Mainly intermediate to felsic tuffs and flows.

IKlv Windy-Table volcanic suite. Quartz phryic ash flows and intermediate breccia and tuff.

ImJv Tutshi volcanic suite. Basalt to dacite flows and tuff of interpreted lower to middle Jurassic age.

IJL Laberge Group undifferentiated. Includes siltstone, arenaceous greywacke, argillite, and conglomerate of Early Jurassic age.

IJLg Laberge Group; mainly medium to coarse, quartz-bearing wacke.

IJLa Laberge Group; mainly argillite with subordinate siltstone and wacke.

## OLDER VOLCANIC ASSEMBLAGES, SEDIMENTARY, AND METAMORPHIC ROCKS

### STIKINE(?) TERRANE

UTs Stuhini Group, undifferentiated. Includes feldspar-phryic and pyroxene-phryic flows, tuff, tuffite, and breccia; conglomerate, limestone, argillite.

UTss Stuhini Group; dominated by volcanic derived sediments of coarse conglomerate to silty argillite composition.

UTsv Stuhini Group; dominated by biaded plagioclase and pyroxene-phryic flows rocks (lower) or intermediate tuffs (higher in section).

PPmb Boundary Ranges metamorphic suite, undifferentiated. Metamorphosed siltstone, greywacke, tuff, greenstone, and limestone metamorphosed to transitional greenschist- amphibolite facies, regionally retrograded. Current data permits a Permian to Devonian age.

### CACHE CREEK TERRANE

MTc Undifferentiated Cache Creek Complex. Sheared melange consisting of pods of ultramafic rocks, greenstone, marble, chert, and clastics in a sheared matrix of greywacke and argillite. Mississippian to Late Triassic age.

MTCs Mainly pelagic and hemipelagic sediments

MTCI Mainly limestone

MTCb pillow basalt, gabbro and minor ultramafic tectonite.

TP Undivided Peninsula Mountain volcano-sedimentary suite. Includes basaltic to rhyolitic tuff, breccia and tuff of Middle to Late Triassic age.

### NISLING TERRANE?

PPgn Florence Range Metamorphic Suite. Includes acmetitite, pelitic, carbonate, amphibolite and calcilicite schist and gneiss. Paleozoic and Late Proterozoic protoliths are most likely.

PMgn Gneiss and schist; age and affinity uncertain, but possibly Mesozoic or older.

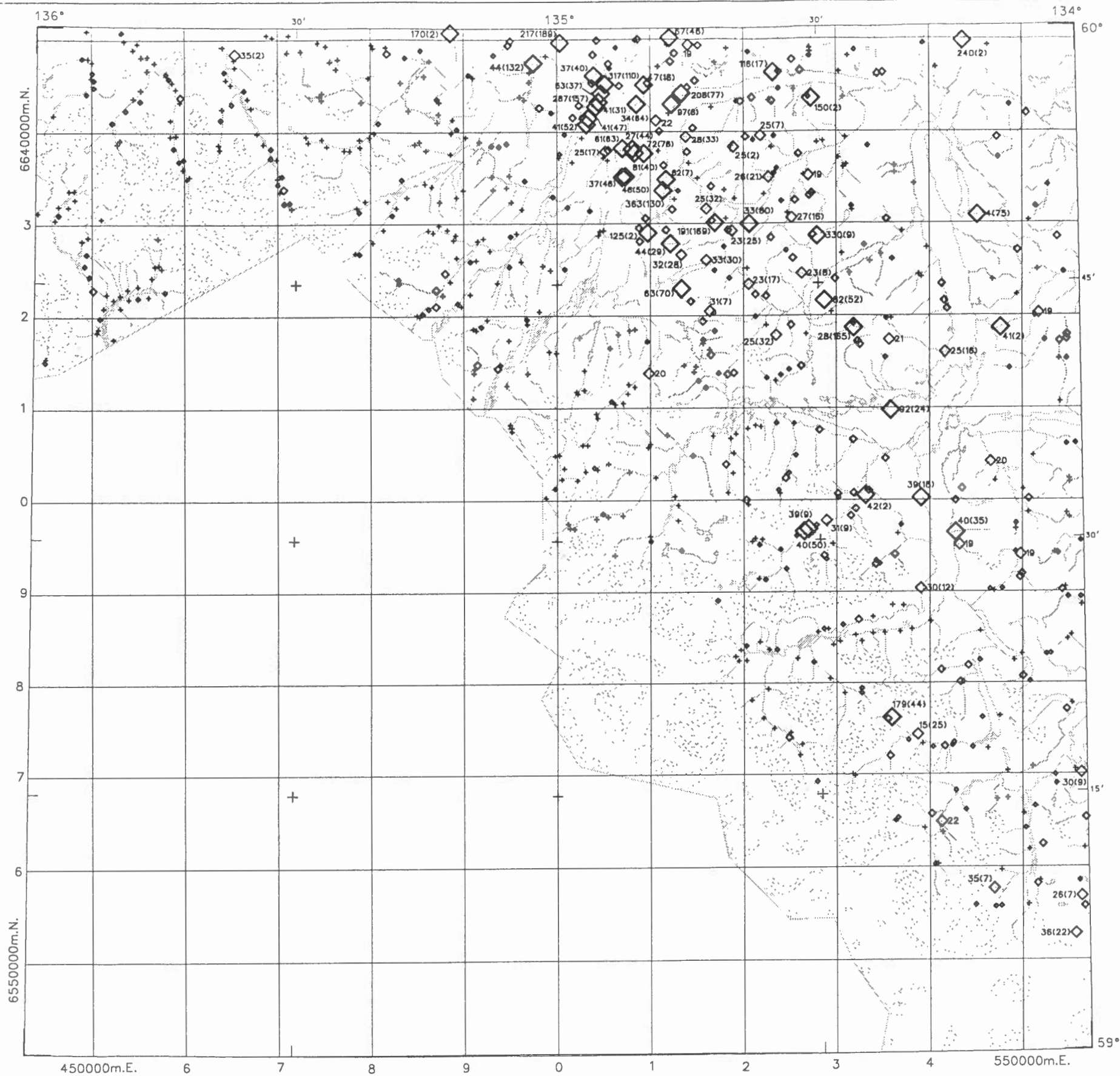
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BC RGS 37

BEDROCK GEOLOGY

Map 2



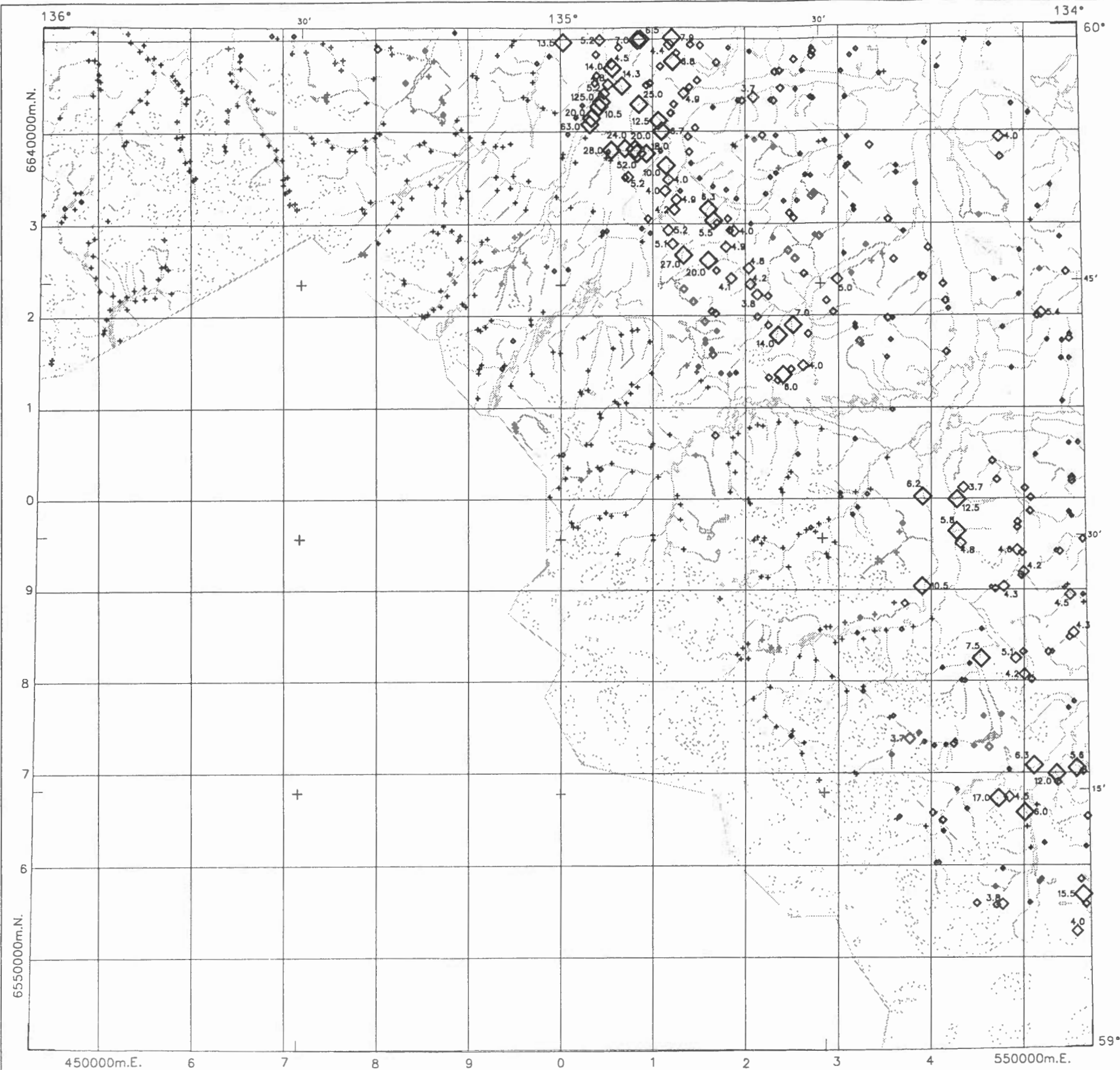


104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

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BC RGS 37

GOLD by INAA (ppb)  
Map 3



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

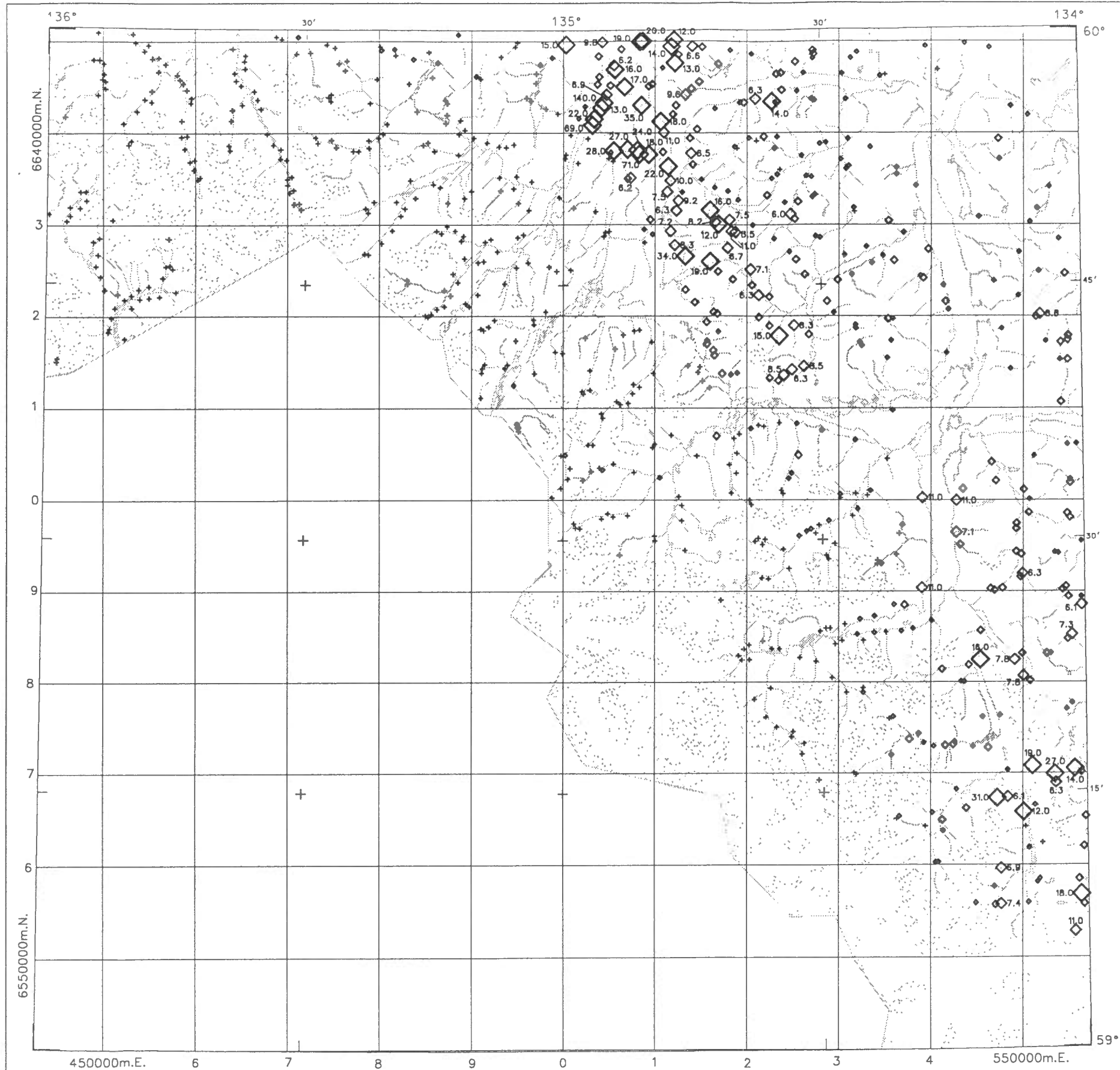
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
5.41 - 125.00	◇ N = 38 (5.1%)
3.51 - 5.40	◇ N = 37 (5.0%)
1.41 - 3.50	◇ N = 102 (13.8%)
0.21 - 1.40	• N = 169 (22.8%)
0.20 - 0.20	+ N = 395 (53.3%)

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BC RGS 37

ANTIMONY by AAS (ppm)  
Map 4



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

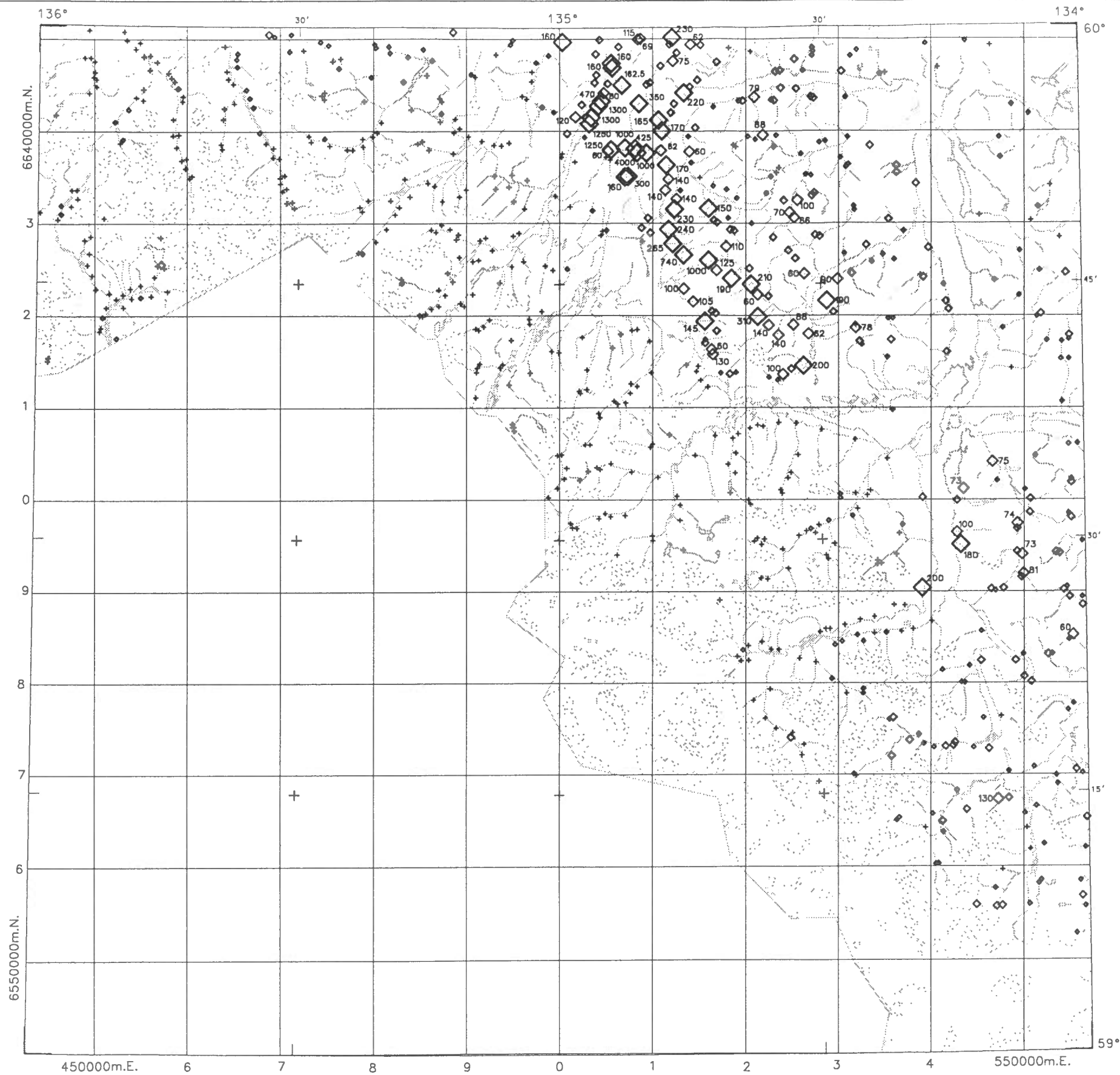
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
11.01 - 140.00	◇ N = 33 (4.5%)
5.81 - 11.00	◇ N = 42 (5.7%)
2.51 - 5.80	◇ N = 109 (14.7%)
0.61 - 2.50	◆ N = 172 (23.2%)
0.10 - 0.60	✦ N = 385 (52.0%)

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ANTIMONY by INAA (ppm)  
Map 5



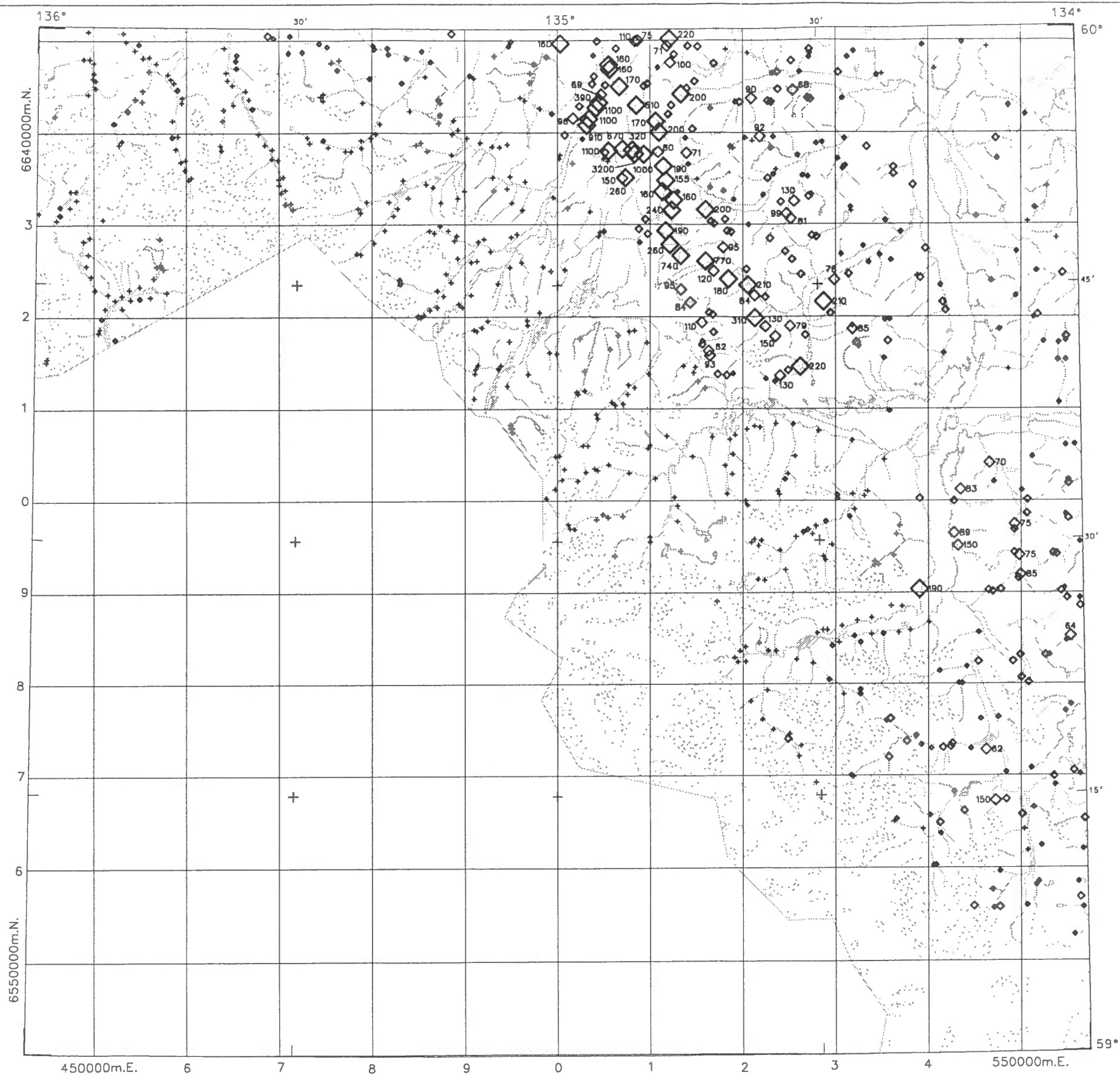
104M

UTM ZONE 08  
 NAD27 DATUM  
 1:500000

NTS 104M - SKAGWAY  
 BC RGS 37

ARSENIC by AAS-H (ppm)  
 Map 6





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

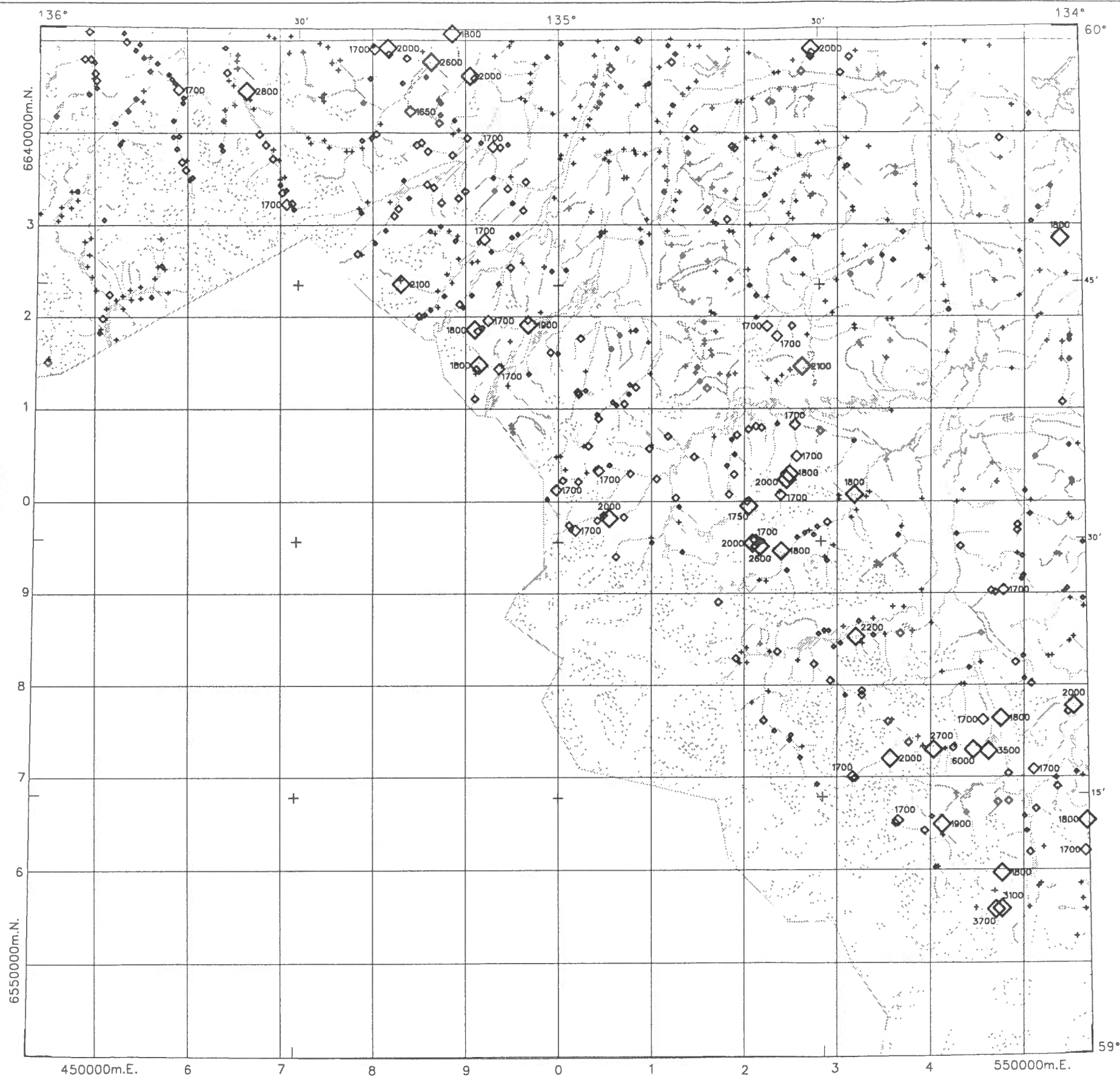
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS		
Concentration		Frequency
N = 741 SAMPLES		
150.1 - 3200.0	◇	N = 35 (4.7%)
60.1 - 150.0	◇	N = 39 (5.3%)
22.1 - 60.0	◇	N = 114 (15.4%)
4.7 - 22.0	◆	N = 183 (24.7%)
0.5 - 4.6	+	N = 370 (49.9%)

NTS 104M - SKAGWAY  
BC RGS 37

ARSENIC by INAA (ppm)  
Map 7



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

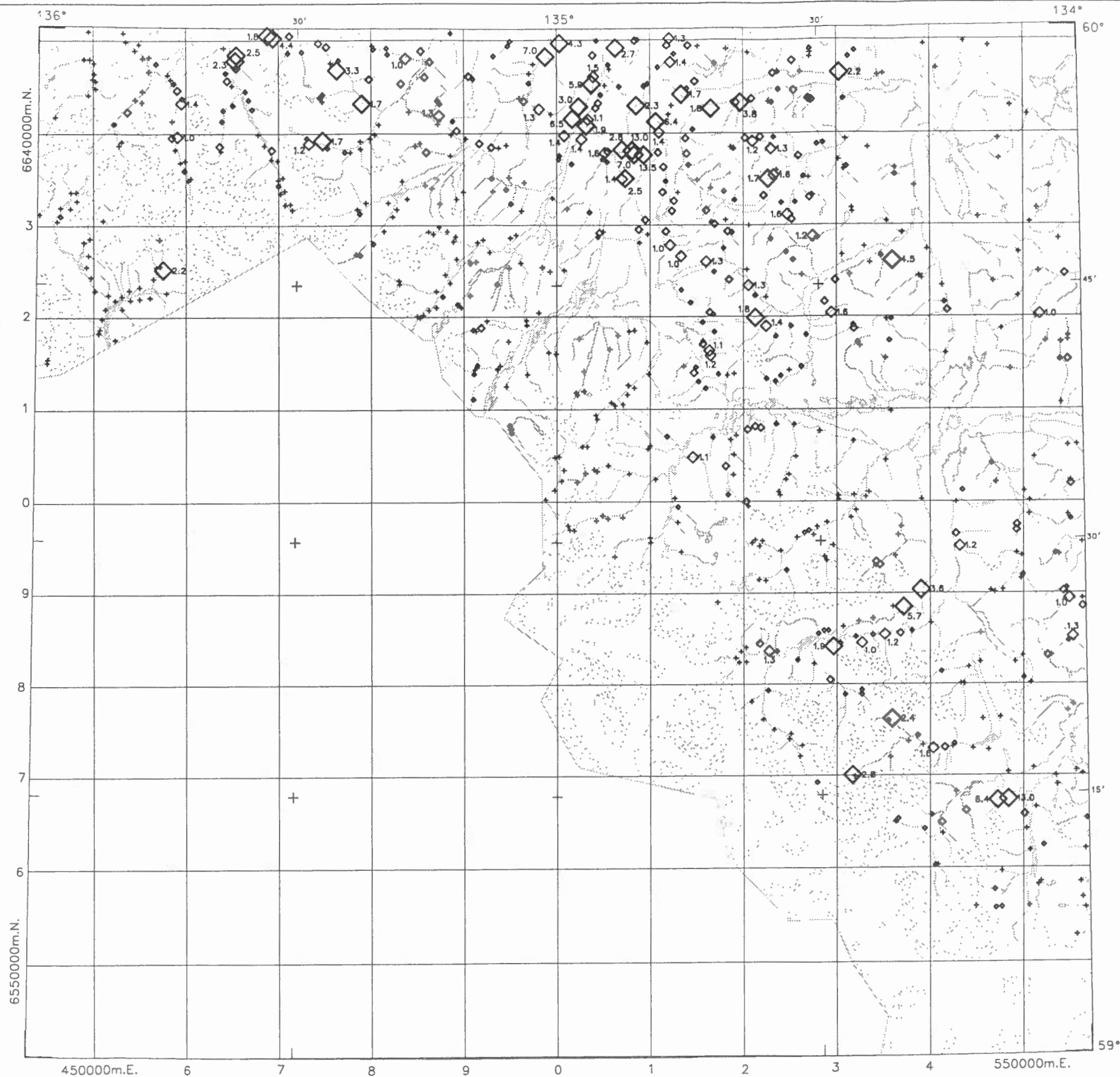
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
1701 - 8000	◇ N = 32 (4.3%)
1801 - 1700	◇ N = 23 (3.1%)
1301 - 1800	◇ N = 123 (16.6%)
1101 - 1300	◆ N = 183 (24.7%)
120 - 1100	+ N = 380 (51.3%)

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BC RGS 37

BARIUM by INAA (ppm)  
Map 8



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

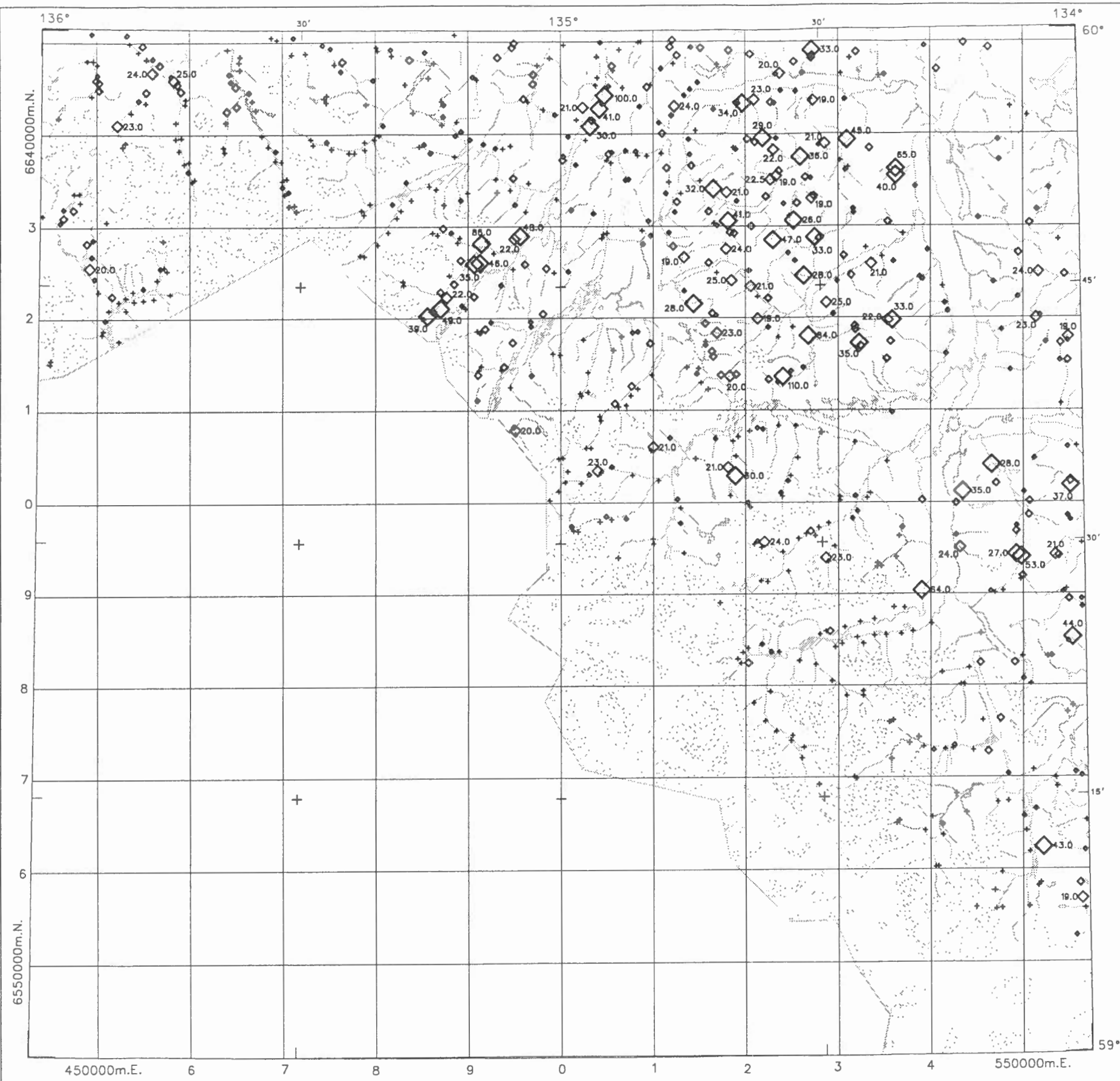
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS			
Concentration		Frequency	
N = 741 SAMPLES			
1.81 - 13.50	◇	N = 38	(4.9%)
0.91 - 1.80	◇	N = 37	(5.0%)
0.41 - 0.90	◇	N = 88	(11.9%)
0.21 - 0.40	◆	N = 187	(25.2%)
0.20 - 0.20	+	N = 413	(55.7%)

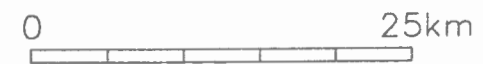
NTS 104M - SKAGWAY  
BC RGS 37

BISMUTH by AAS-H (ppm)  
Map 9



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

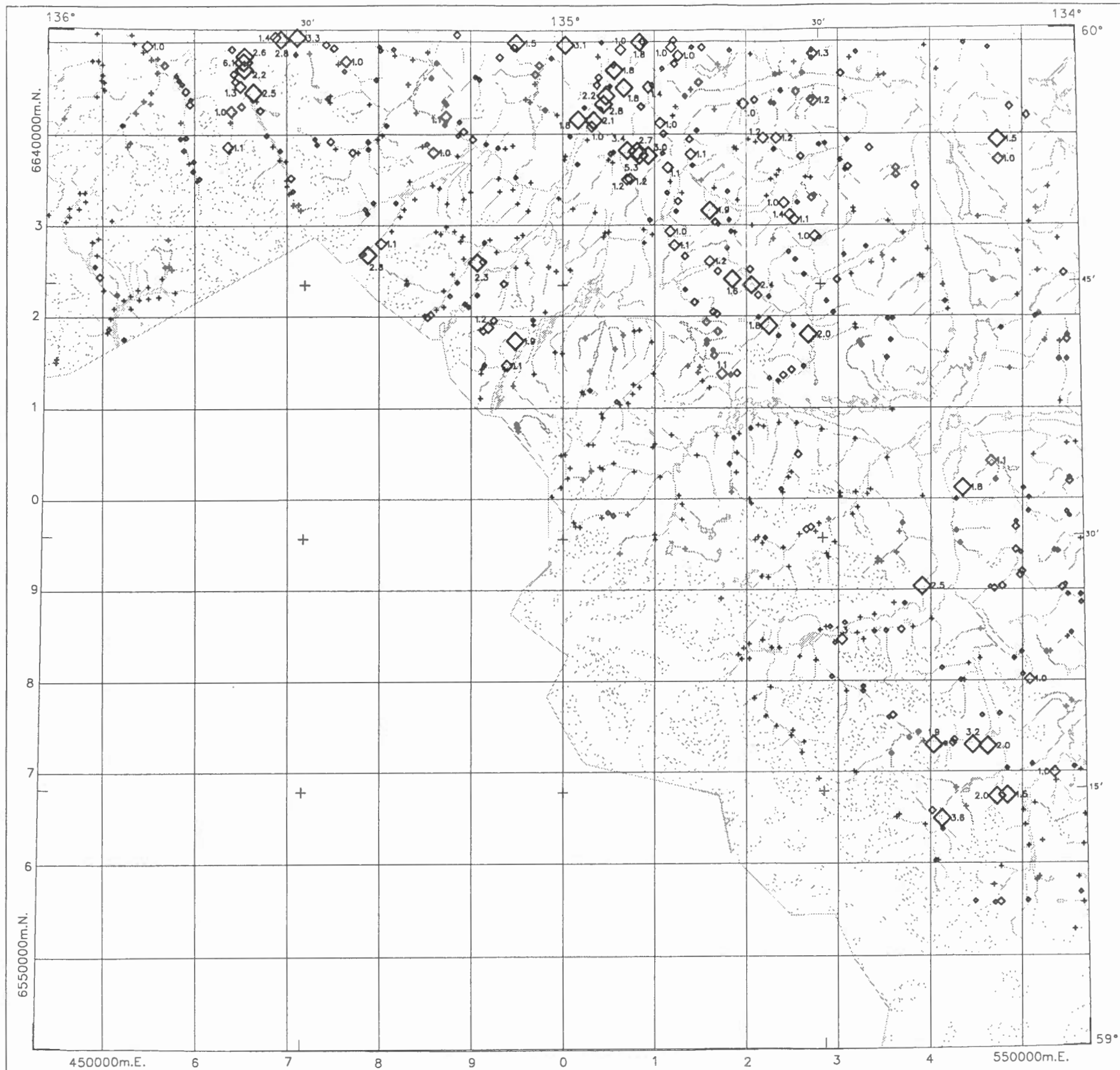
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
25.1 - 110.0	◇ N = 36 (4.8%)
18.1 - 25.0	◇ N = 39 (5.3%)
9.4 - 18.0	◇ N = 116 (15.7%)
3.8 - 9.3	◆ N = 188 (25.4%)
0.5 - 3.7	✚ N = 362 (48.8%)

NTS 104M - SKAGWAY  
BC RGS 37  
BROMINE by INAA (ppm)  
Map 10





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

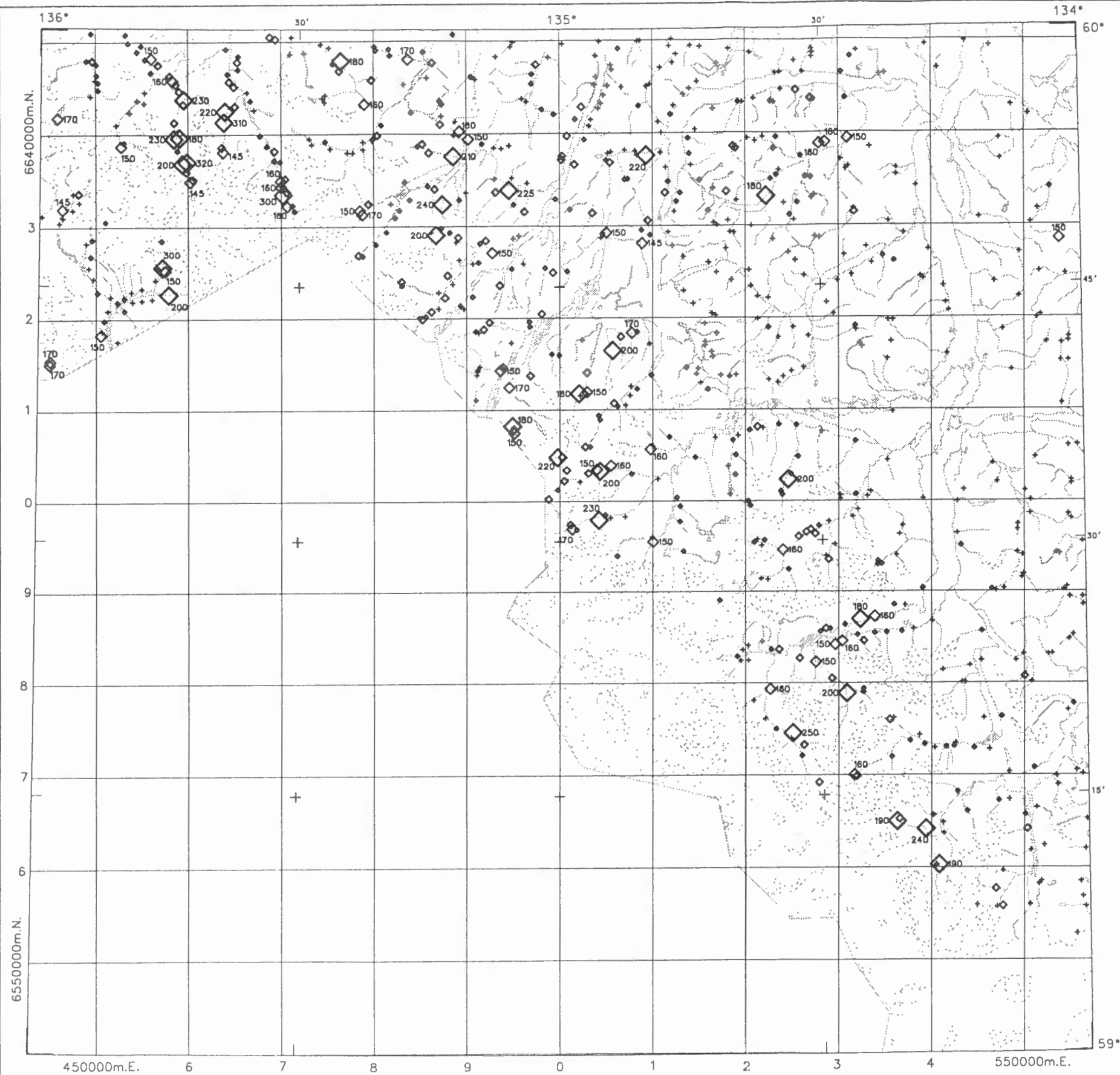
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
1.41 - 6.10	◇ N = 36 (4.9%)
0.81 - 1.40	◇ N = 39 (5.3%)
0.51 - 0.90	◇ N = 85 (11.5%)
0.21 - 0.50	◆ N = 200 (27.0%)
0.20 - 0.20	✦ N = 381 (51.4%)

NTS 104M - SKAGWAY  
BC RGS 37

CADMIUM by AAS (ppm)  
Map 11



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

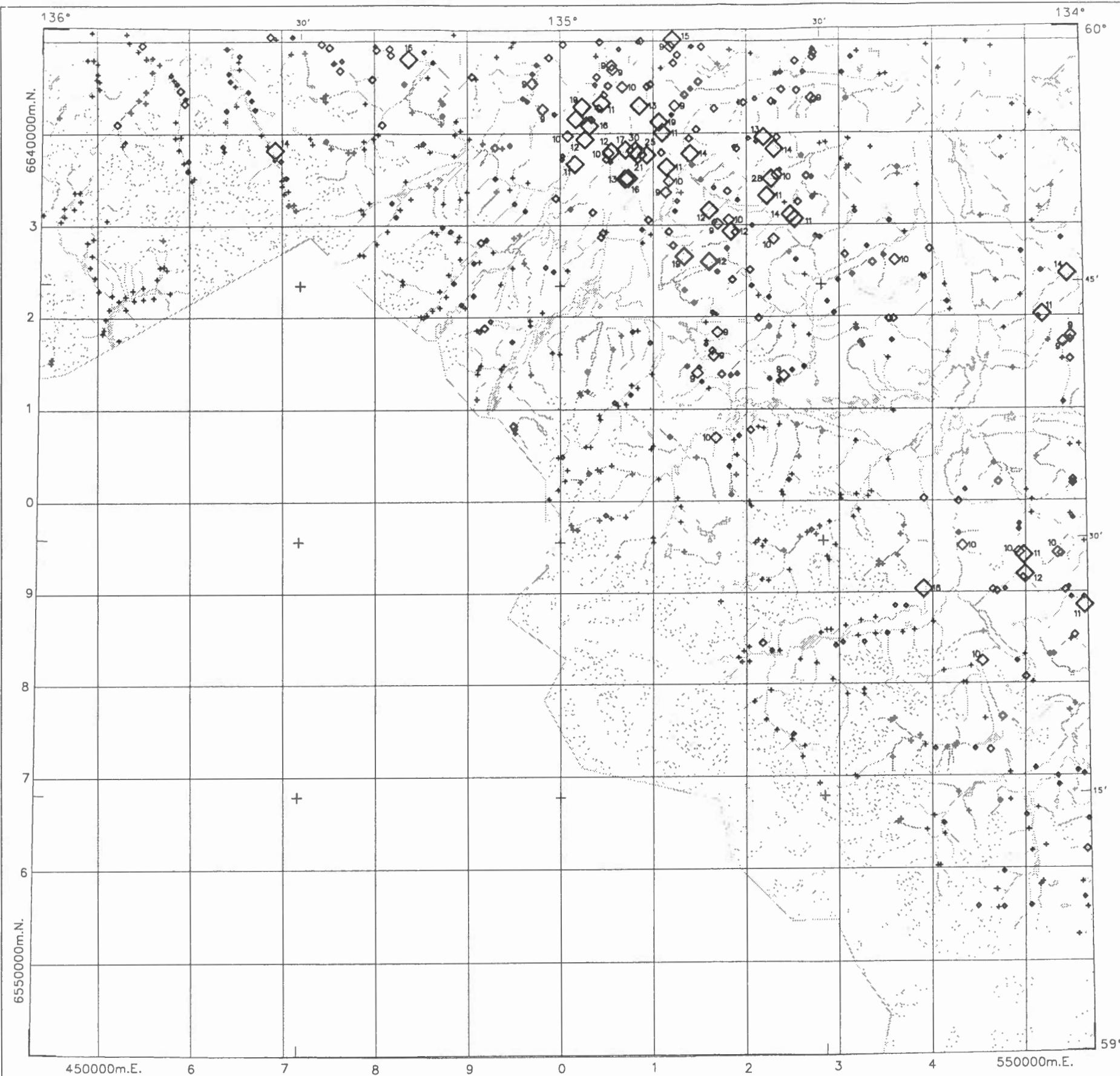
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS			
Concentration		Frequency	
N = 741 SAMPLES			
171 - 320	◇	N = 30	(4.0%)
141 - 170	◇	N = 44	(5.9%)
111 - 140	◇	N = 93	(12.5%)
85 - 110	◆	N = 197	(26.5%)
4 - 84	+	N = 377	(51.0%)

NTS 104M - SKAGWAY  
BC RGS 37

CERIUM by INAA (ppm)  
Map 12



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

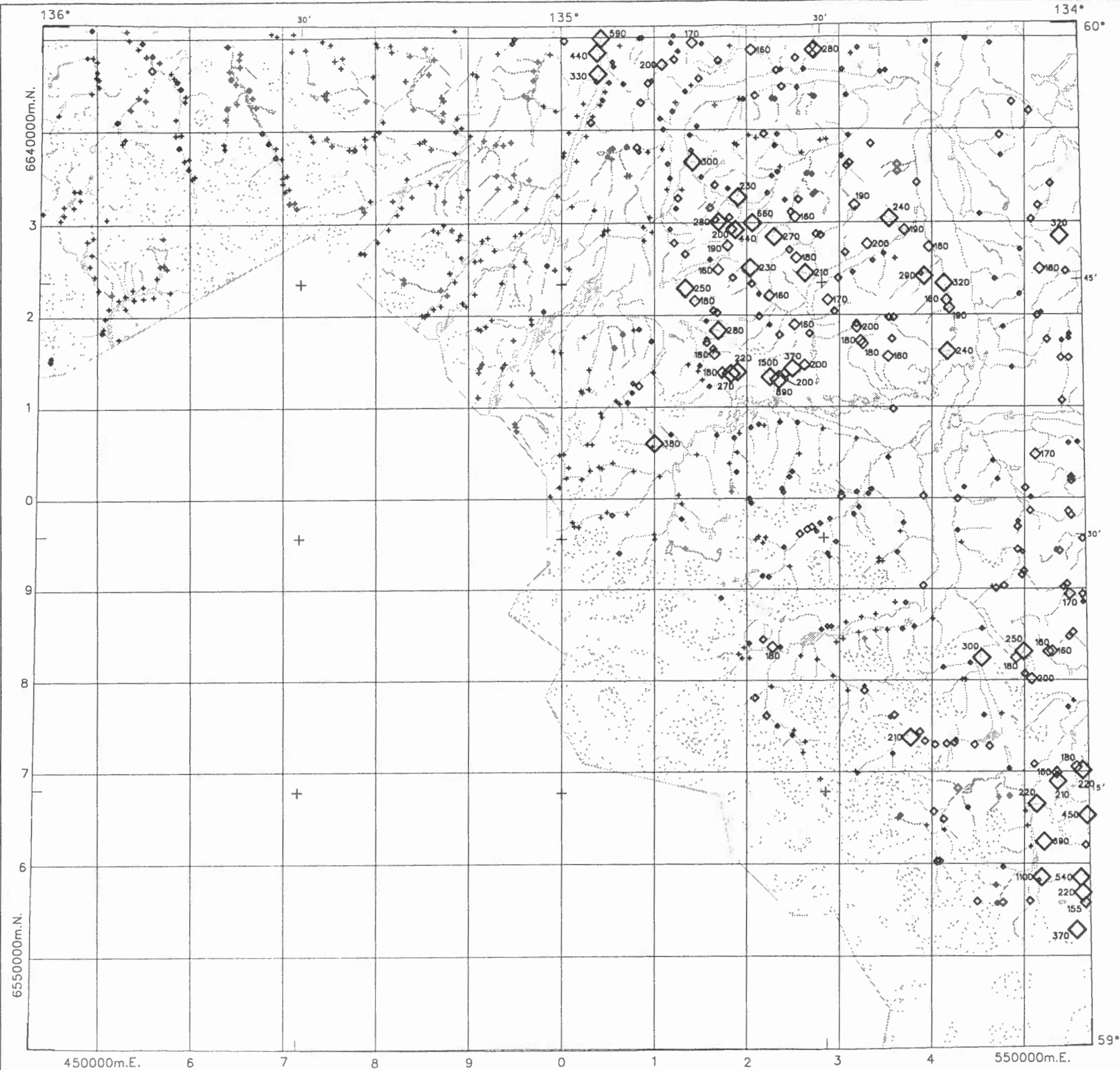
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS		
Concentration	Frequency	
N = 741 SAMPLES		
11 - 30	◇	N = 37 (5.0%)
9 - 10	◇	N = 28 (3.8%)
6 - 8	◇	N = 89 (12.0%)
4 - 5	◆	N = 179 (24.2%)
1 - 3	+	N = 408 (55.1%)

NTS 104M - SKAGWAY  
BC RGS 37

CESIUM by INAA (ppm)  
Map 13



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

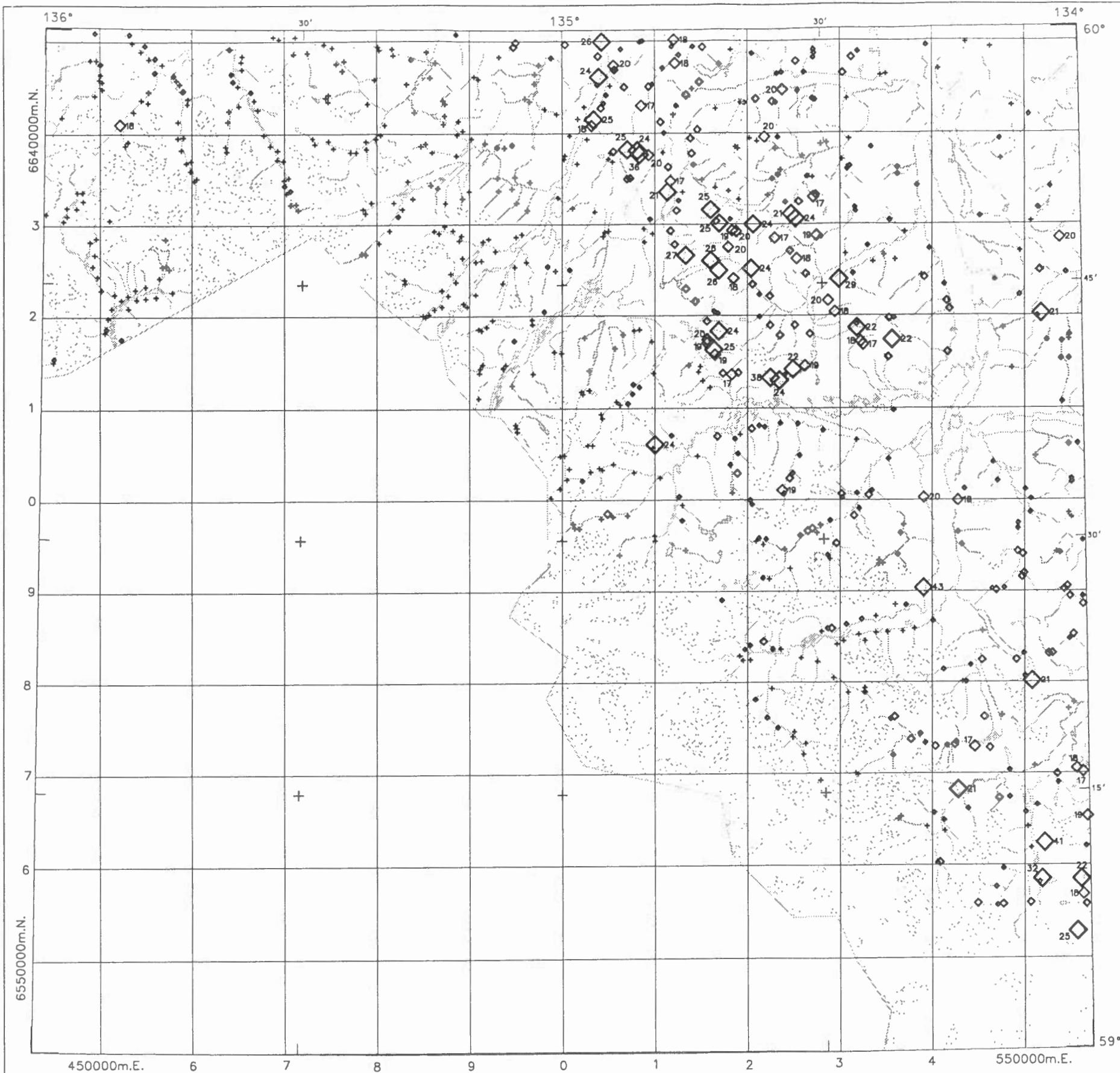
Field duplicate results are averaged.

STREAM SEDIMENTS		
Concentration		Frequency
N = 741 SAMPLES		
201 - 1500	◇	N = 37 (5.0%)
151 - 200	◇	N = 37 (5.0%)
83 - 150	◇	N = 113 (15.2%)
38 - 82	◆	N = 179 (24.2%)
5 - 37	+	N = 375 (50.6%)

NTS 104M - SKAGWAY  
BC RGS 37

CHROMIUM by INAA (ppm)  
Map 14





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

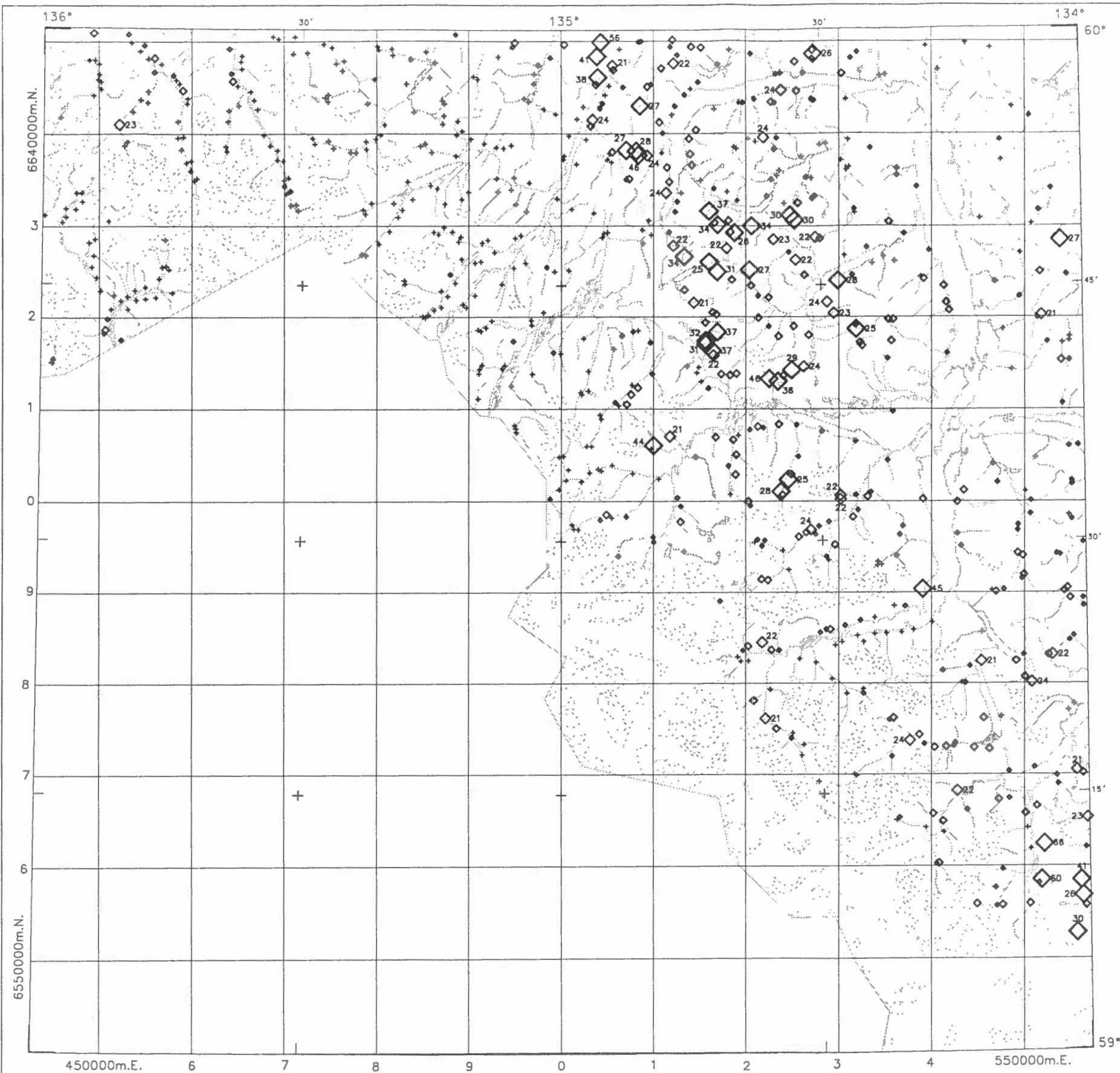
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
21 - 43	◇ N = 33 (4.3%)
17 - 20	◇ N = 36 (4.9%)
12 - 16	◇ N = 90 (12.1%)
7 - 11	◆ N = 193 (26.0%)
2 - 6	✦ N = 389 (52.5%)

NTS 104M - SKAGWAY  
BC RGS 37

COBALT by AAS (ppm)  
Map 15



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

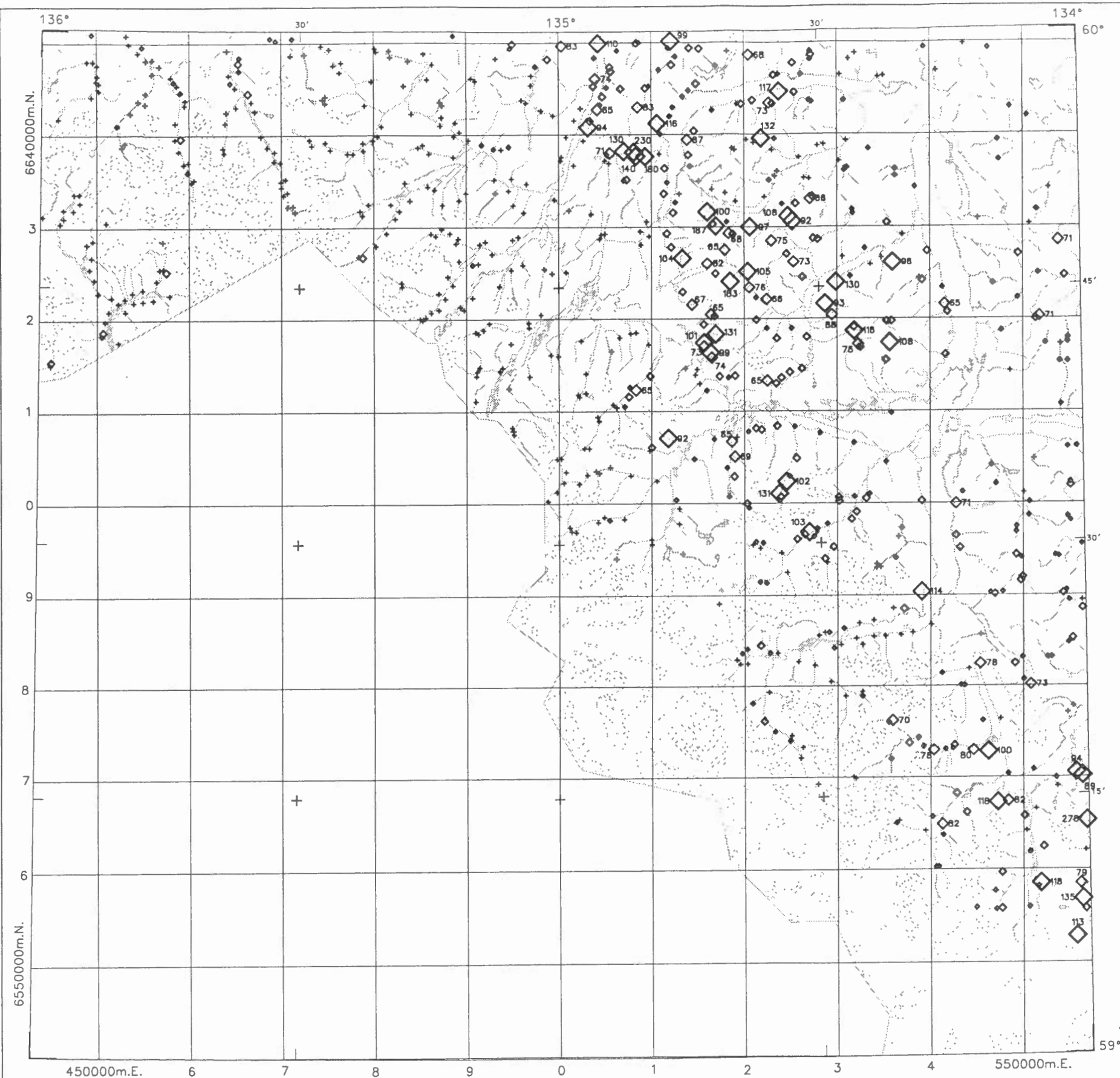
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
25-66	◇ N = 37 (5.0%)
21-24	◇ N = 32 (4.3%)
15-20	◇ N = 119 (16.1%)
10-14	◇ N = 178 (23.8%)
1-9	+ N = 377 (50.9%)

NTS 104M - SKAGWAY  
BC RGS 37

COBALT by INAA (ppm)  
Map 16



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

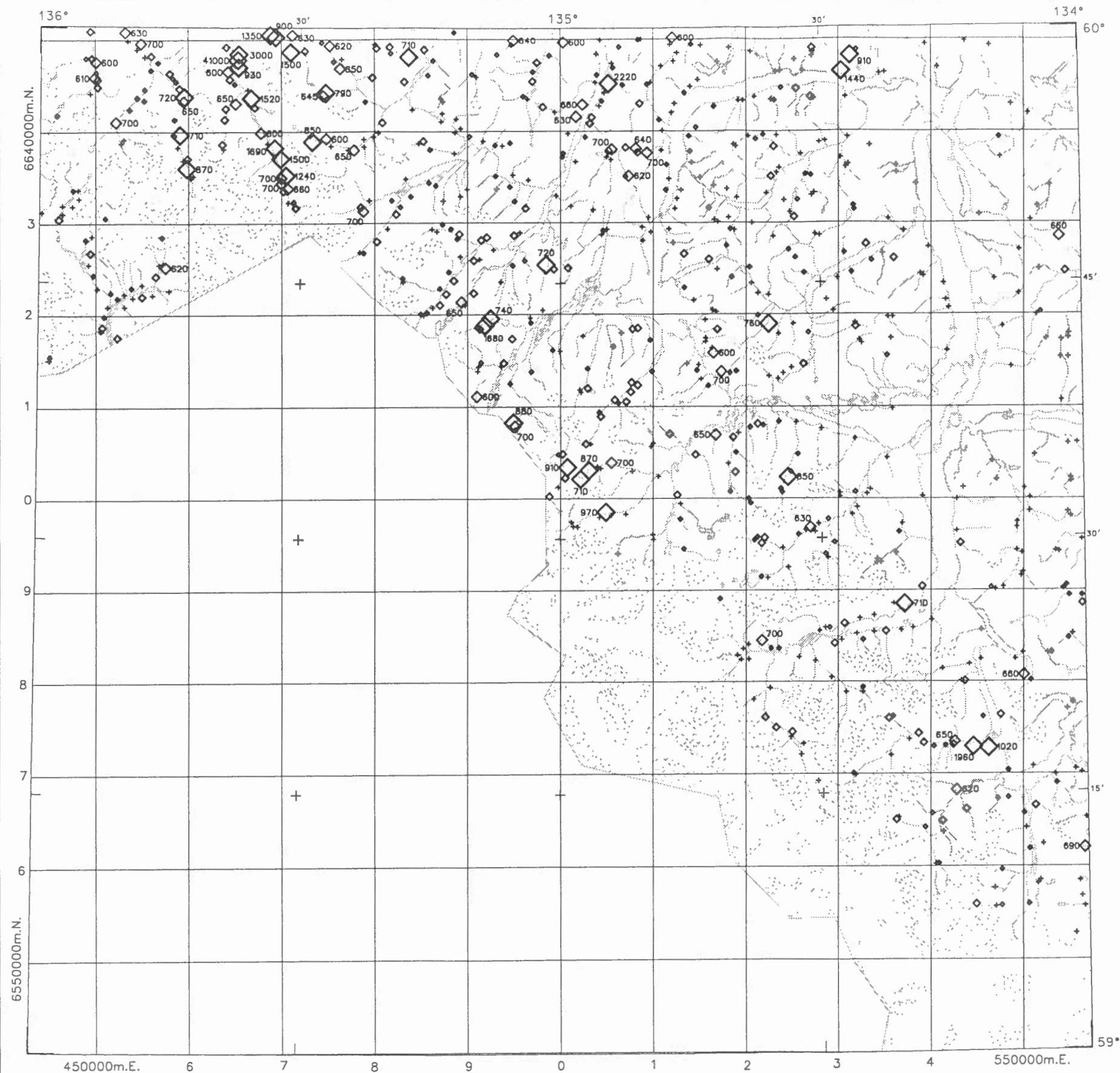
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
88 - 278	◇ N = 38 (5.3%)
65 - 88	◇ N = 38 (5.1%)
38 - 64	◇ N = 113 (15.2%)
17 - 37	◆ N = 171 (23.1%)
2 - 16	✚ N = 380 (51.3%)

NTS 104M - SKAGWAY  
BC RGS 37

COPPER by AAS (ppm)  
Map 17



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

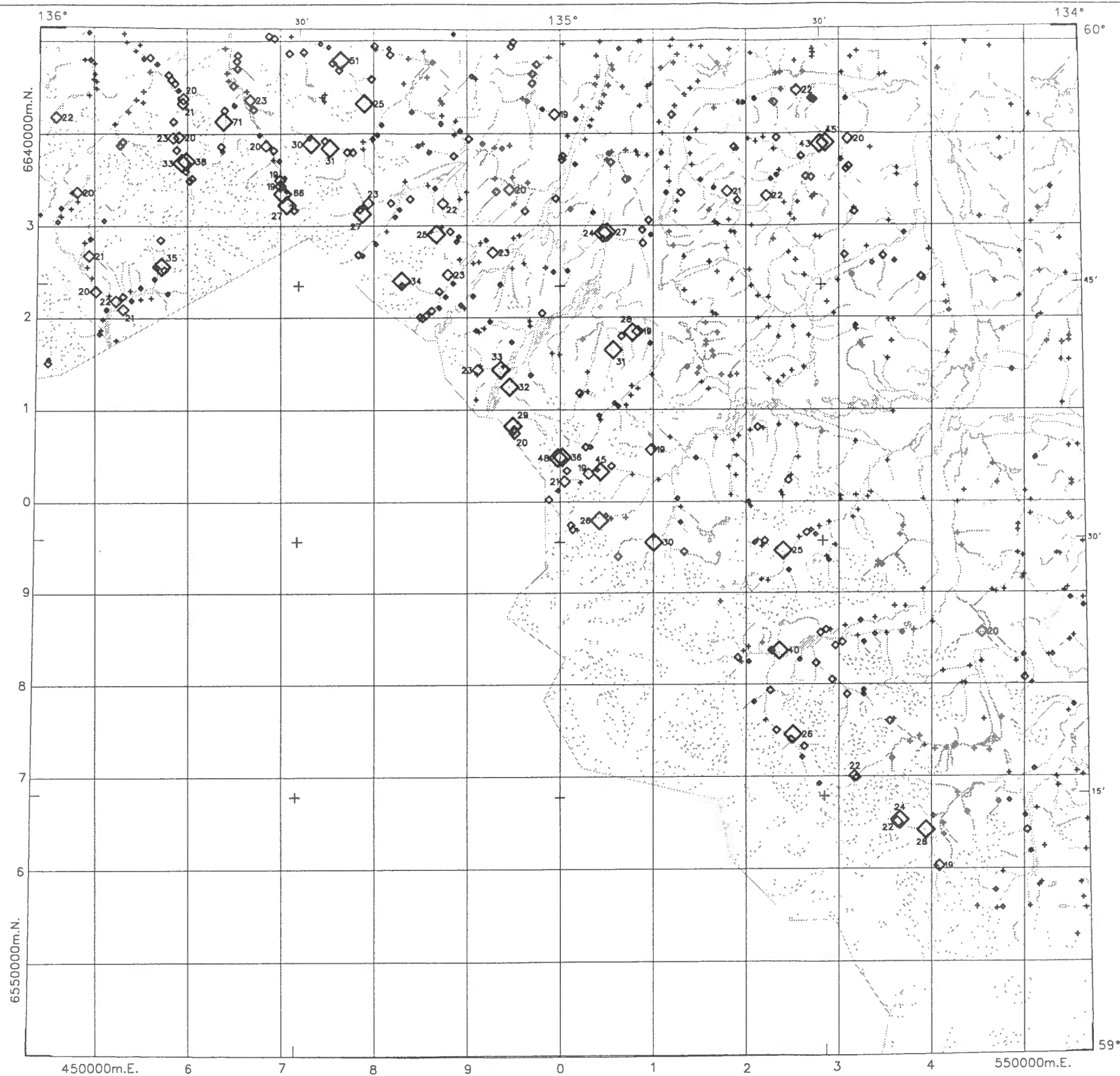
Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
701 - 41000	◇ N = 32 (4.3%)
591 - 700	◇ N = 43 (5.8%)
471 - 590	◇ N = 112 (15.1%)
361 - 470	● N = 187 (25.2%)
90 - 360	• N = 387 (49.5%)

NTS 104M - SKAGWAY  
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FLUORINE by ION (ppm)  
Map 18





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 80th and 95th percentiles. Percentiles are calculated using the raw data.

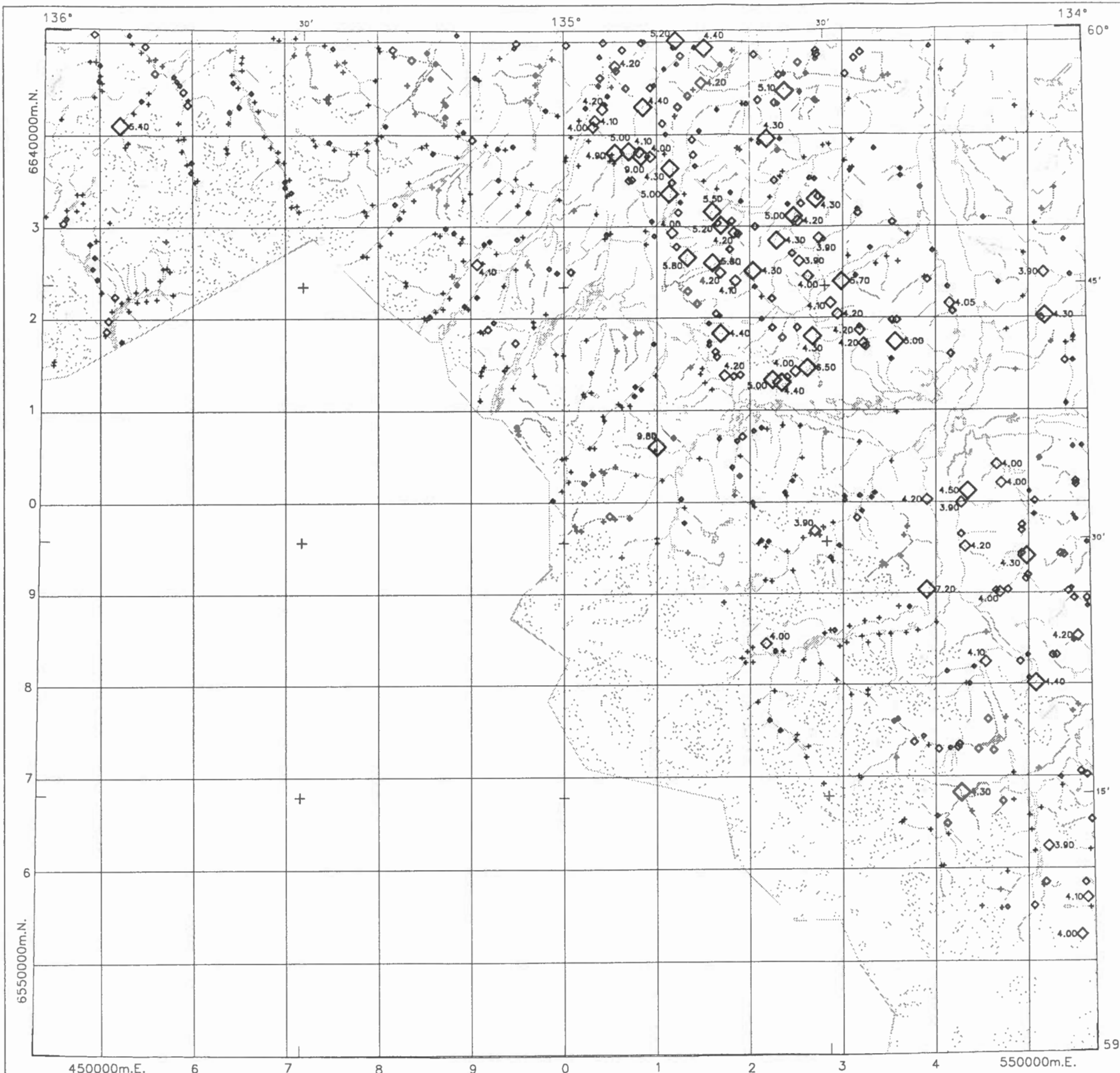
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
24-71	◇ N = 32 (4.3%)
18-23	◻ N = 34 (4.6%)
13-18	○ N = 113 (15.2%)
10-12	● N = 138 (18.6%)
1-9	⊕ N = 424 (57.2%)

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BC RGS 37

HAFNIUM by INAA (ppm)  
Map 19



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

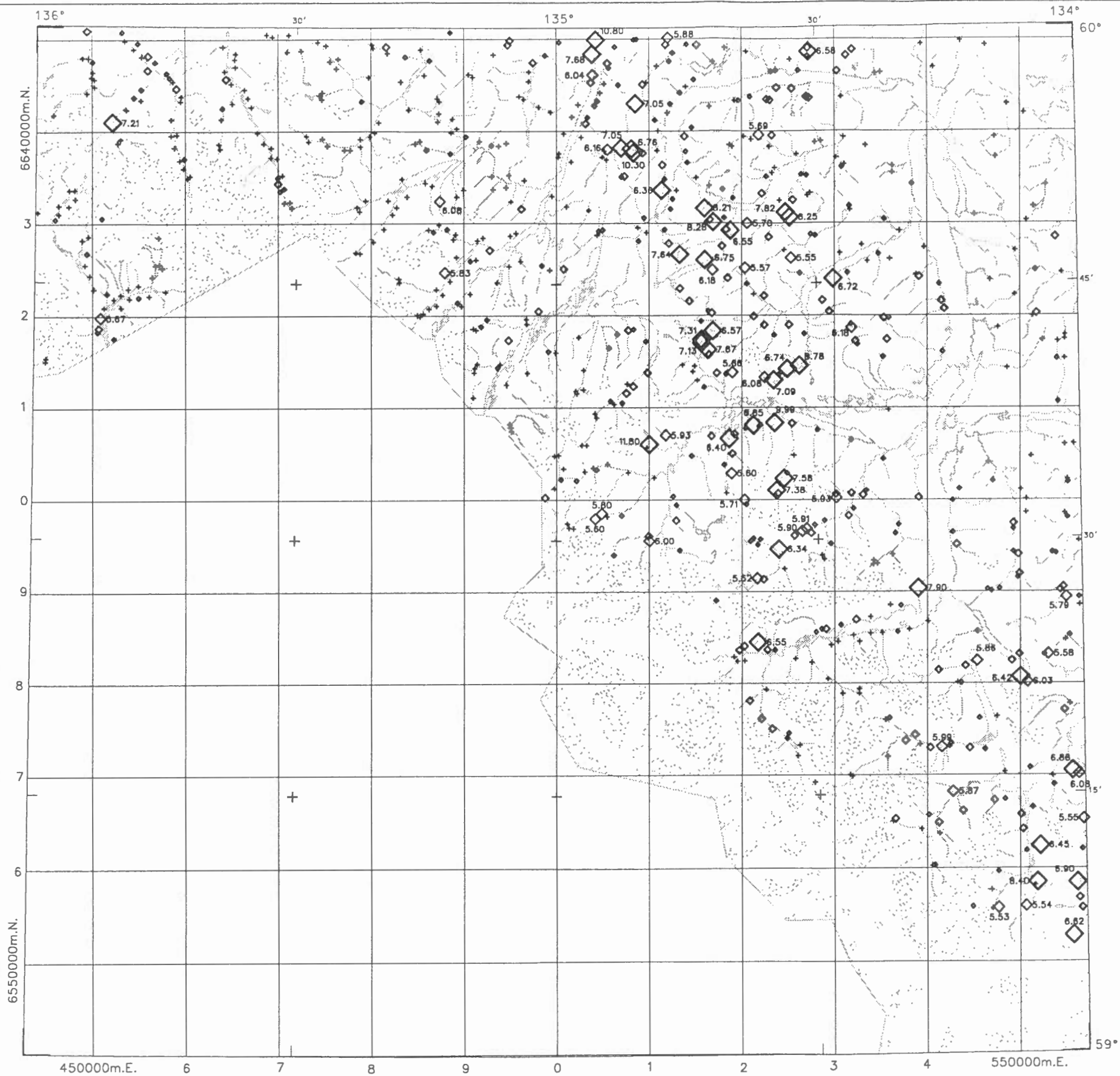
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
4.21 - 9.80	◇ N = 33 (4.5%)
3.81 - 4.20	◇ N = 37 (5.0%)
2.51 - 3.80	◇ N = 113 (15.2%)
1.71 - 2.50	◆ N = 177 (23.9%)
0.15 - 1.70	✦ N = 381 (51.4%)

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IRON by AAS (%)  
Map 20



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

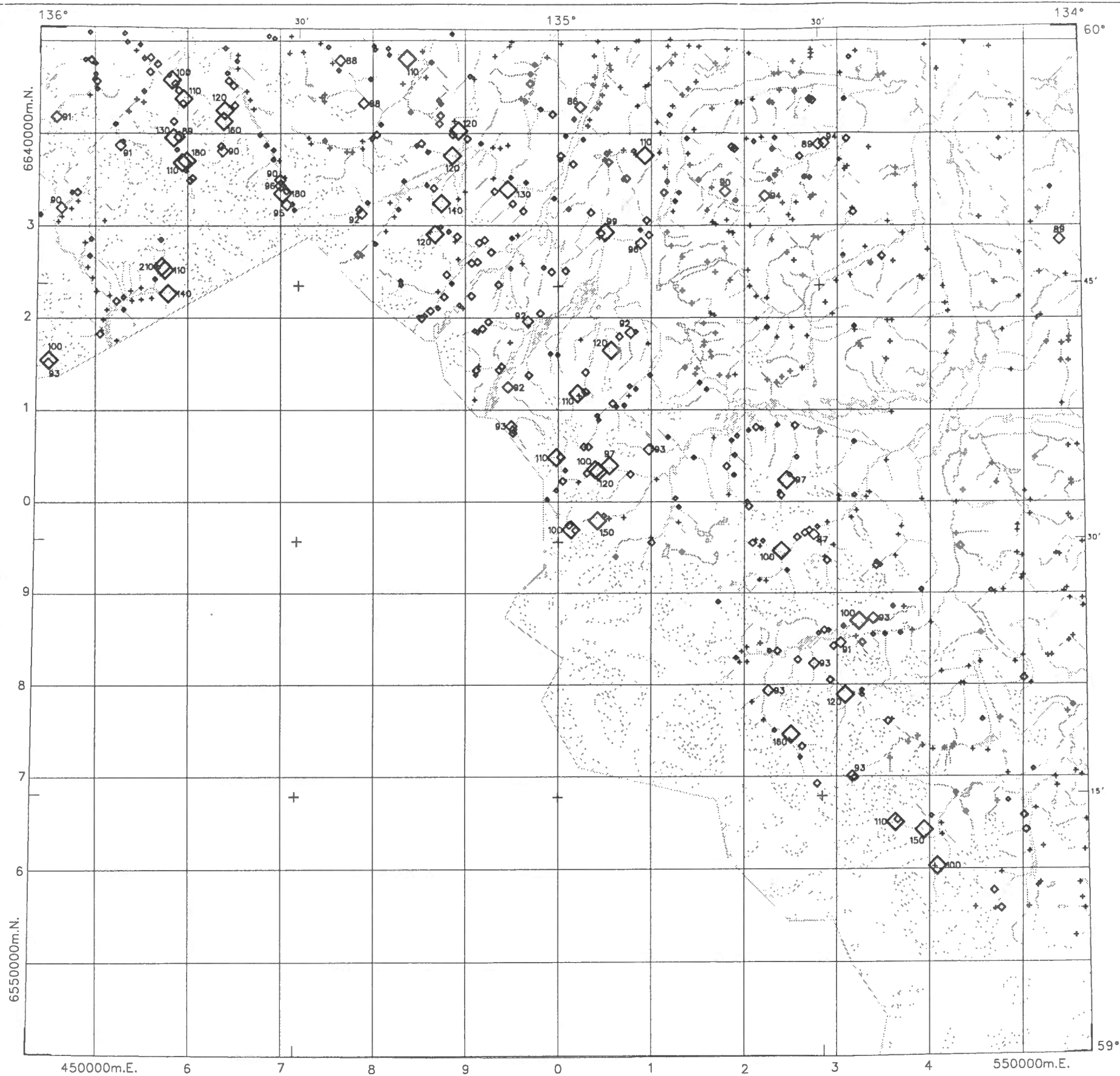
STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
8.16 - 11.80	◇ N = 38 (5.3%)
5.52 - 8.16	◇ N = 34 (4.6%)
4.47 - 5.51	◇ N = 115 (15.5%)
3.50 - 4.46	● N = 181 (24.4%)
0.39 - 3.49	✚ N = 372 (50.2%)

NTS 104M - SKAGWAY

BC RGS 37

IRON by INAA (%)

Map 21



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

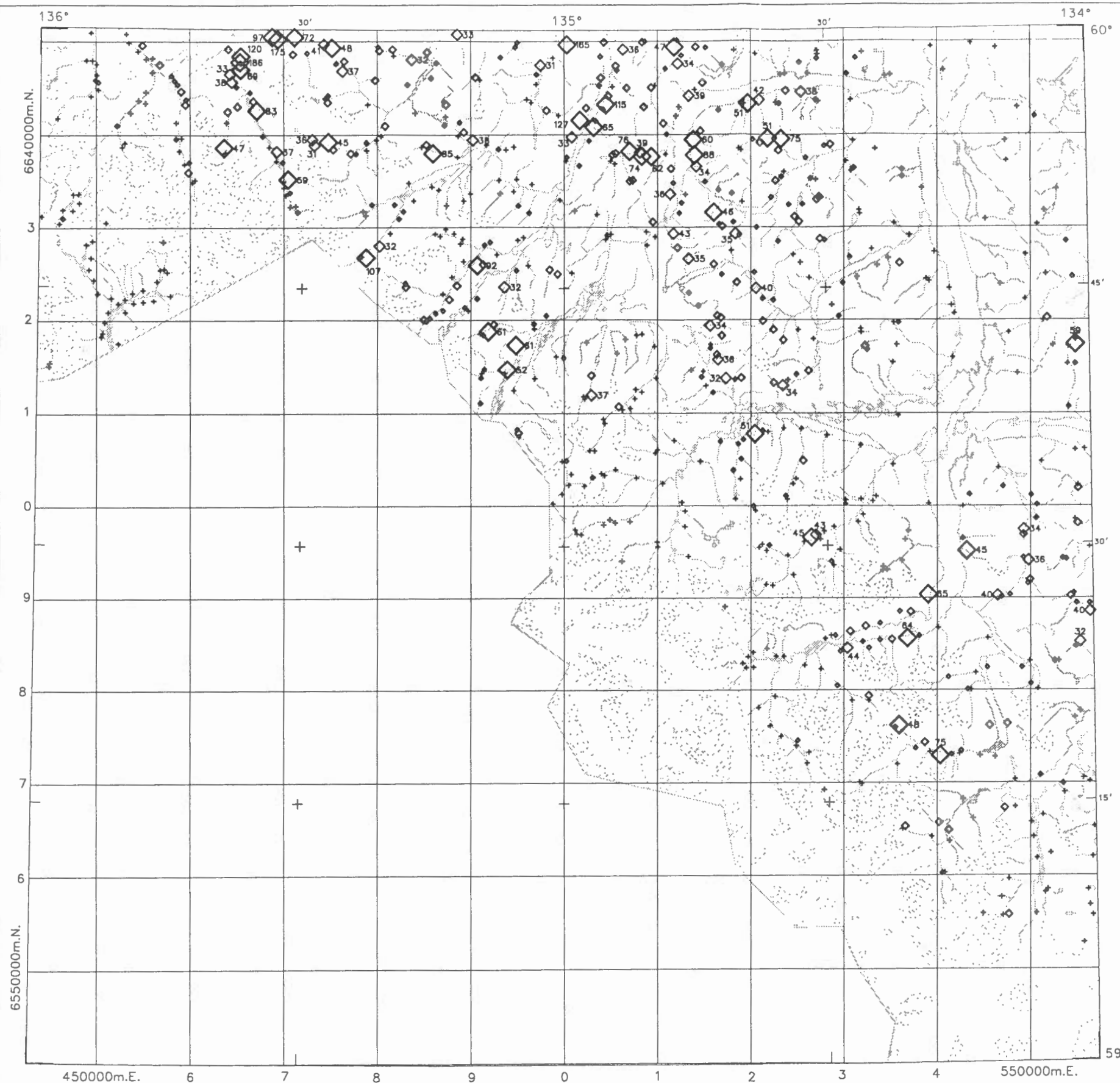
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
97-210	◇ N = 36 (4.9%)
86-96	◇ N = 30 (4.0%)
64-85	◇ N = 114 (15.4%)
48-63	◆ N = 181 (24.4%)
2-47	+ N = 380 (51.3%)

NTS 104M - SKAGWAY  
BC RGS 37

LANTHANUM by INAA (ppm)  
Map 22



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

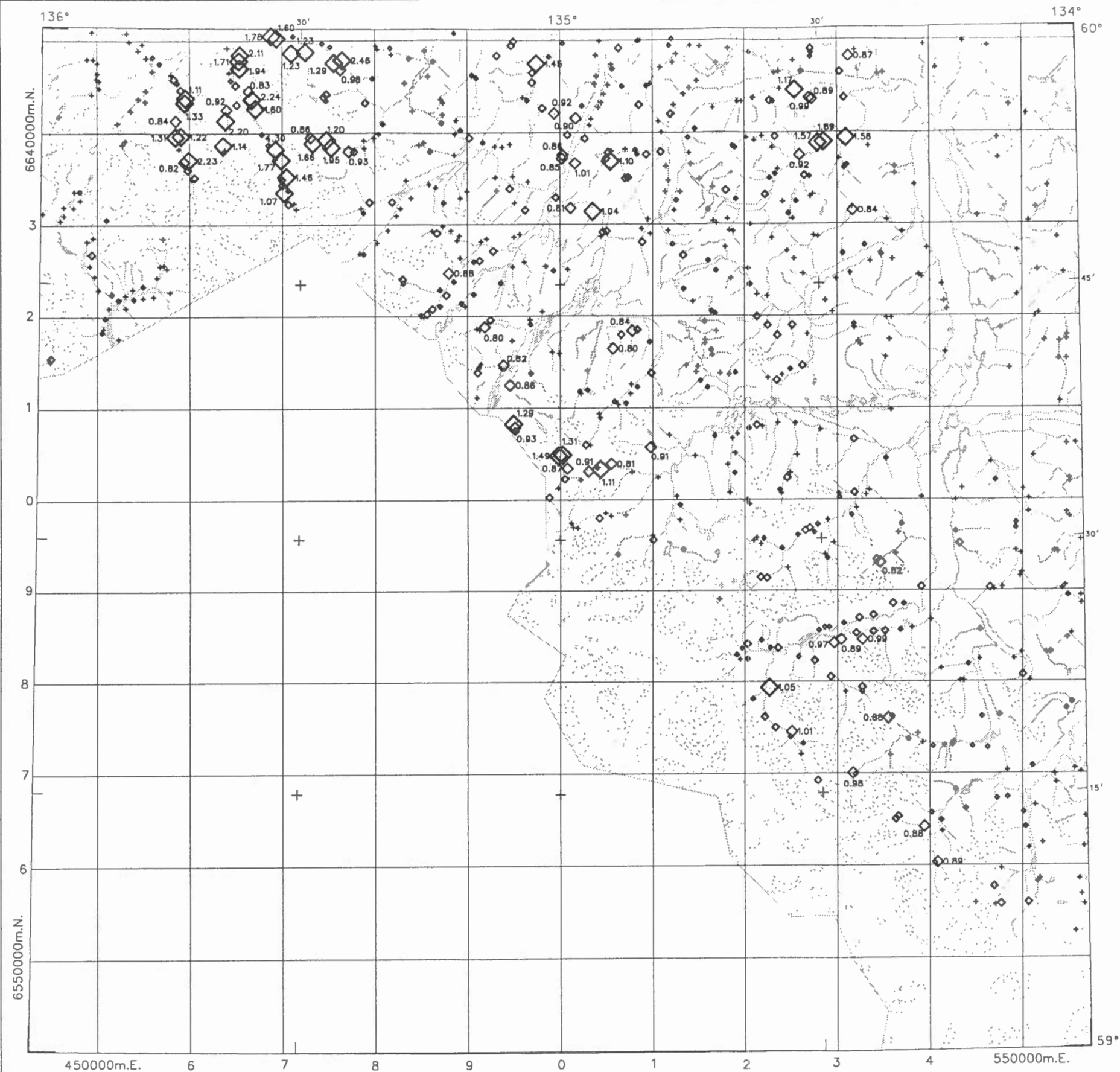
Field duplicate results are averaged.

STREAM SEDIMENTS		
Concentration	Frequency	
N = 741 SAMPLES		
45 - 188	◇	N = 39 (5.3%)
31 - 44	◇	N = 38 (5.1%)
19 - 30	◇	N = 100 (13.5%)
12 - 18	◆	N = 176 (23.8%)
2 - 11	+	N = 388 (52.4%)

NTS 104M - SKAGWAY  
BC RGS 37

LEAD by AAS (ppm)  
Map 23





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

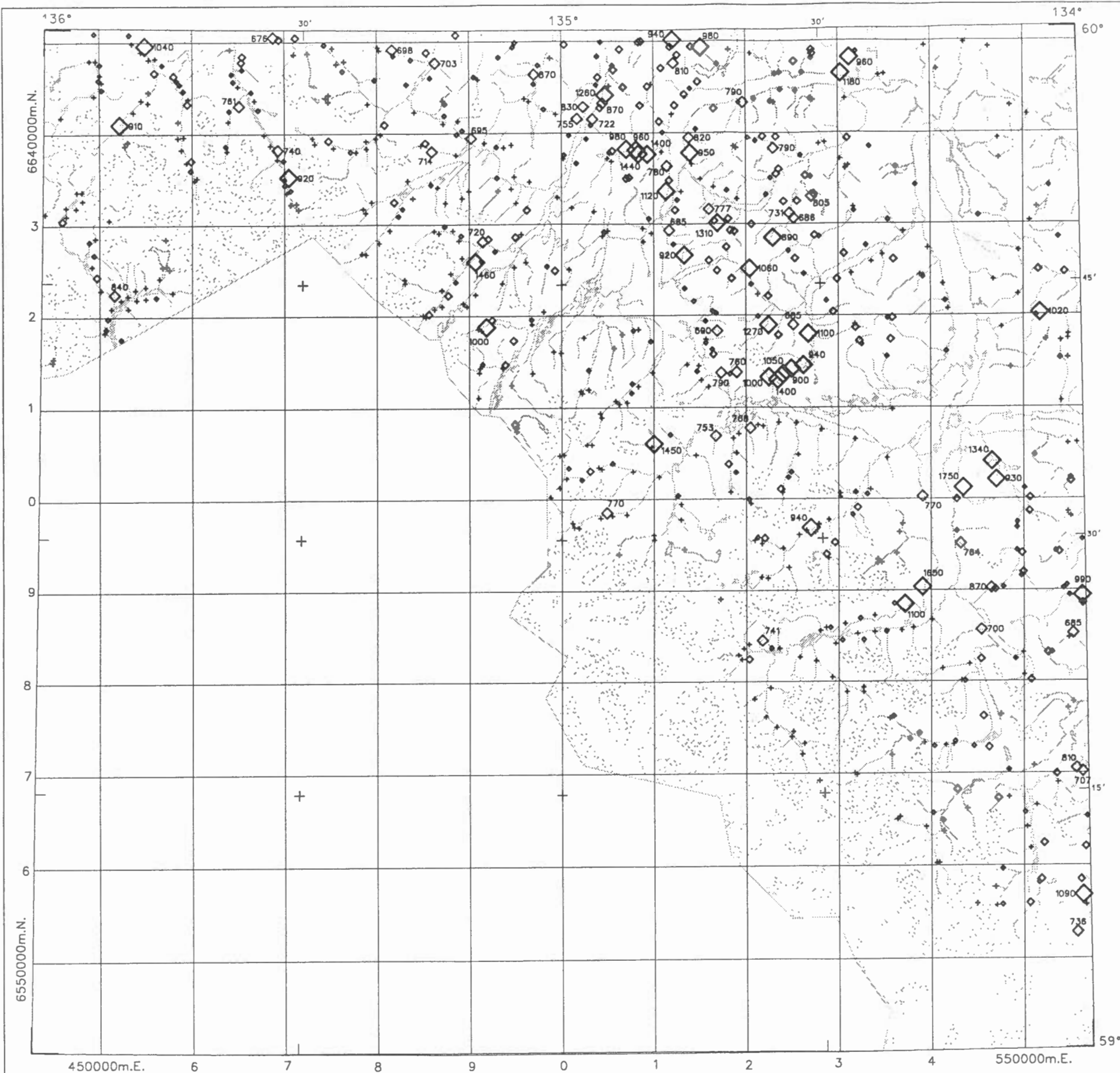
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
1.02 - 4.30	◇ N = 37 (5.0%)
0.80 - 1.01	◇ N = 38 (5.1%)
0.58 - 0.79	◇ N = 108 (14.3%)
0.45 - 0.57	◆ N = 164 (22.1%)
0.06 - 0.44	+ N = 398 (53.4%)

NTS 104M - SKAGWAY  
BC RGS 37

LUTETIUM by INAA (ppm)  
Map 24



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

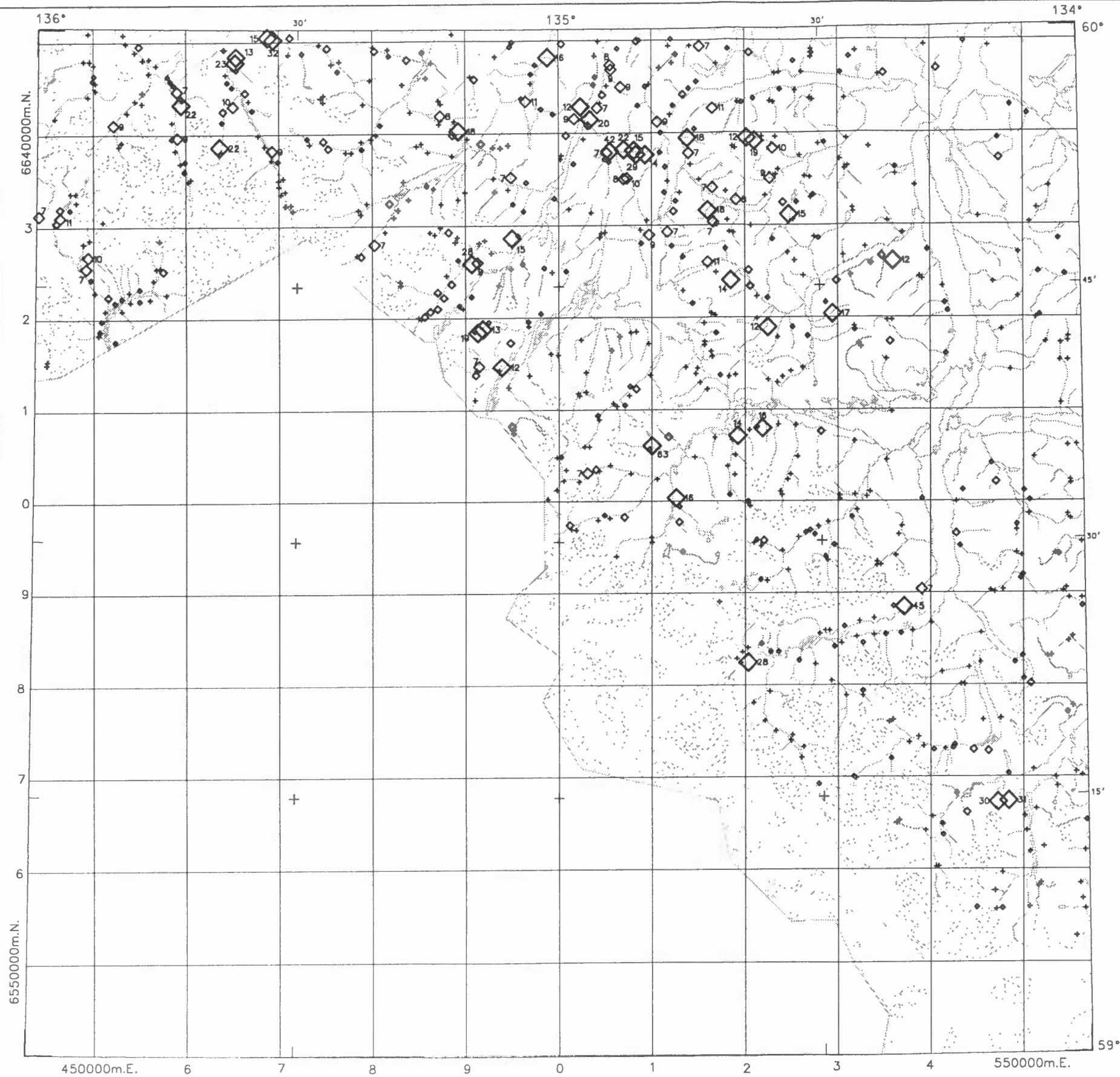
Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
871 - 1750	◇ N = 37 (5.0%)
878 - 870	◇ N = 40 (5.4%)
458 - 875	◇ N = 118 (15.7%)
311 - 455	● N = 183 (24.7%)
33- 310	+ N = 365 (49.3%)

NTS 104M - SKAGWAY  
BC RGS 37

MANGANESE by AAS (ppm)  
Map 25





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

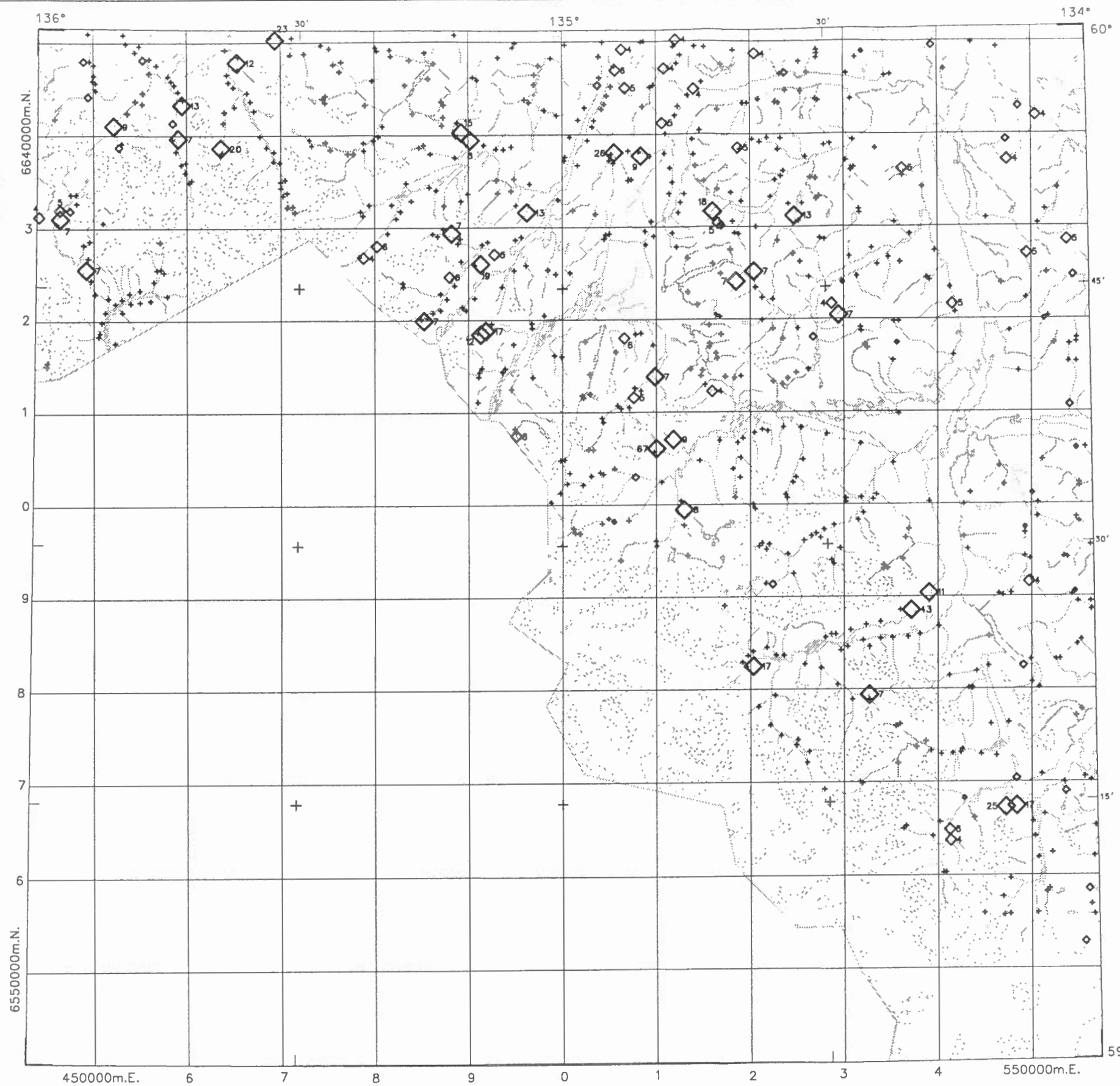
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
12 - 83	◇ N = 37 (5.0%)
7 - 11	◇ N = 37 (5.0%)
5 - 6	◇ N = 59 (8.0%)
3 - 4	◆ N = 174 (23.5%)
1 - 2	+ N = 434 (58.6%)

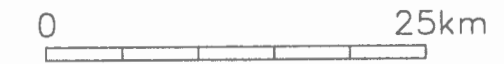
NTS 104M - SKAGWAY  
BC RGS 37

MOLYBDENUM by AAS (ppm)  
Map 27



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

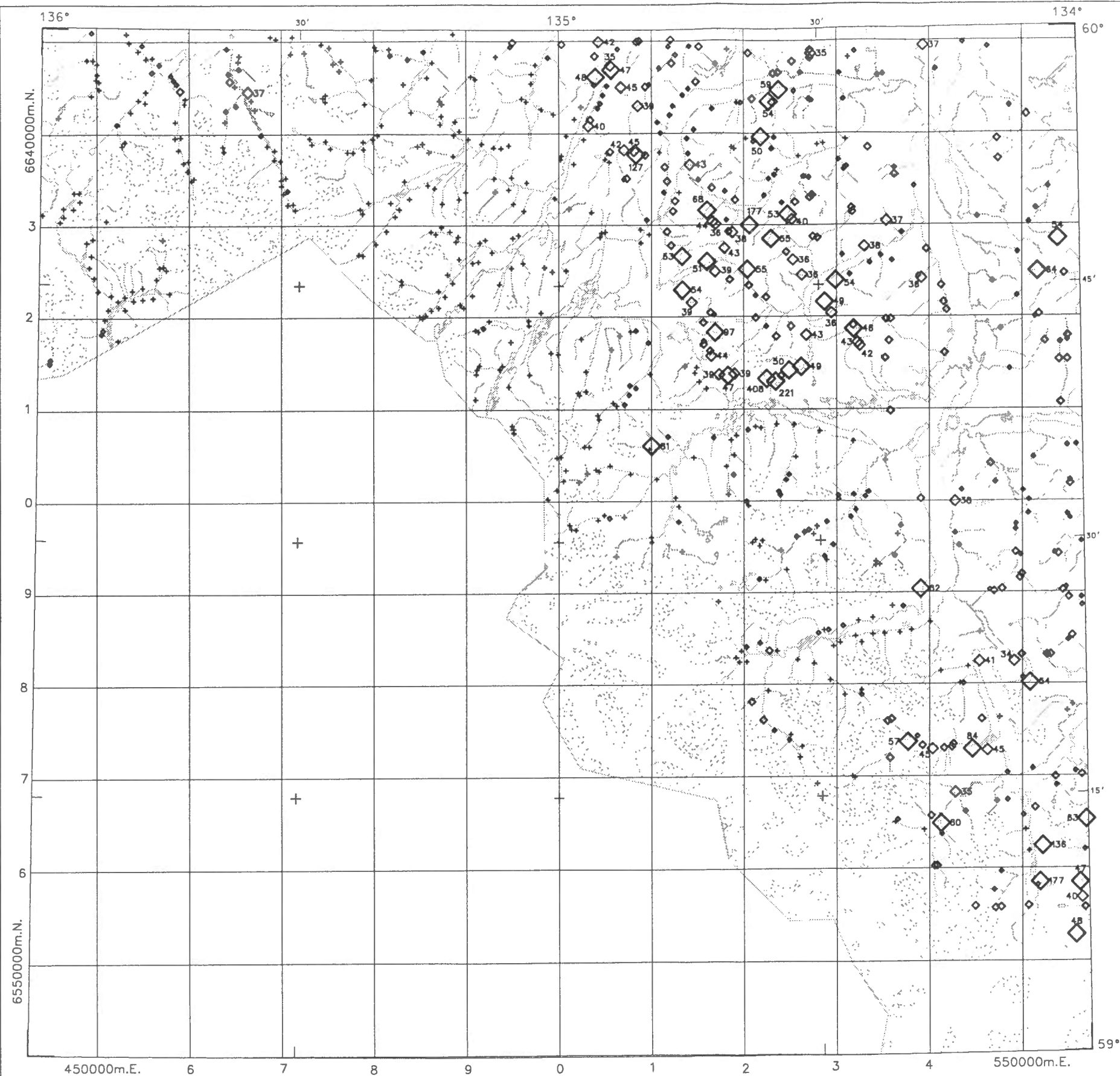
Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
7-67	◇ N = 33 (4.3%)
4-8	◻ N = 30 (4.0%)
3-3	△ N = 22 (3.0%)
2-2	● N = 11 (1.5%)
1-1	⊕ N = 645 (87.0%)

NTS 104M - SKAGWAY  
BC RGS 37

MOLYBDENUM by INAA (ppm)  
Map 28





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

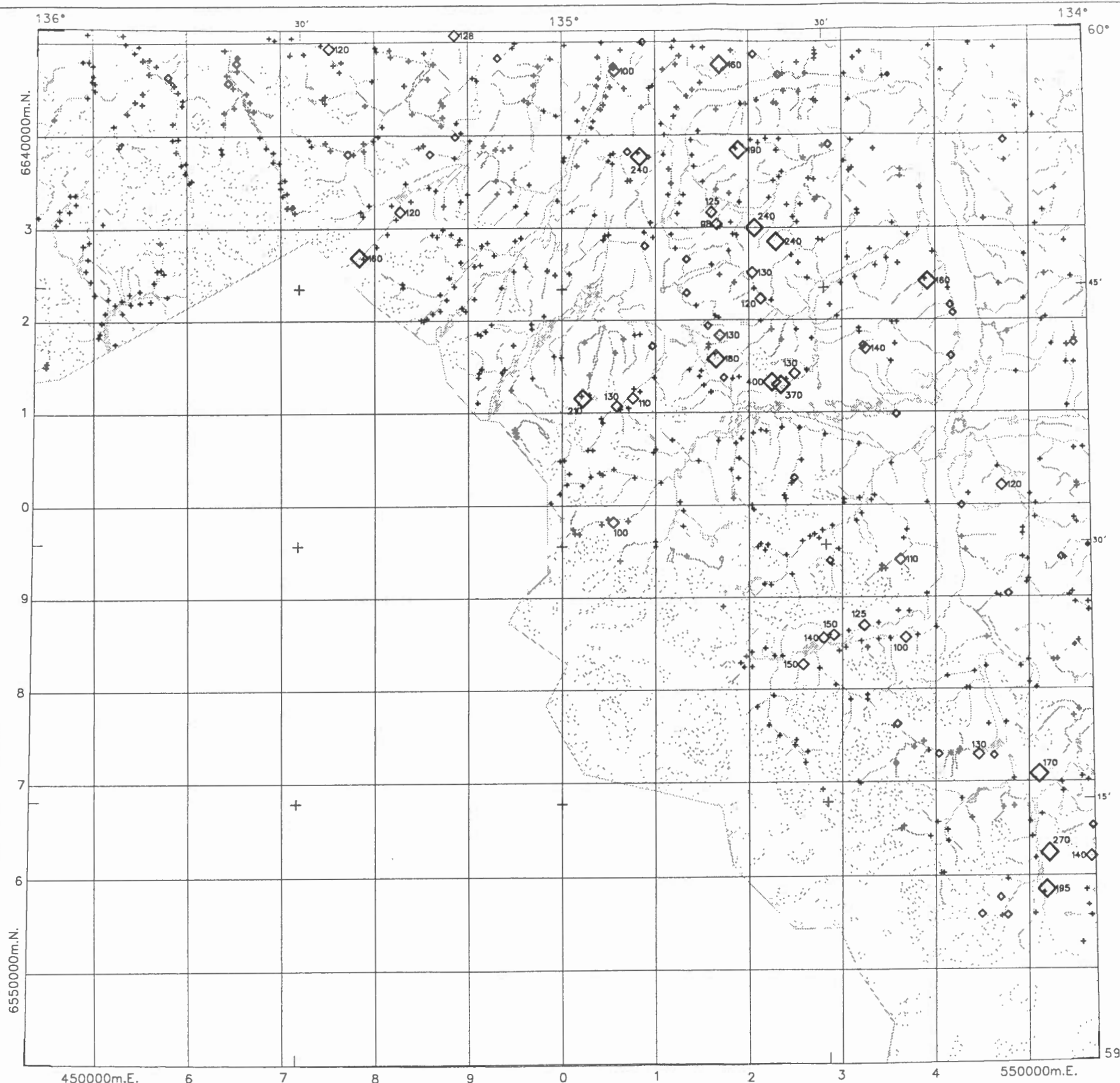
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
46-408	◇ N = 36 (4.9%)
34-45	◇ N = 37 (5.0%)
18-33	◇ N = 112 (15.1%)
7-17	◆ N = 186 (25.1%)
2-8	✚ N = 370 (49.9%)

NTS 104M - SKAGWAY  
BC RGS 37

NICKEL by AAS (ppm)  
Map 29



104M

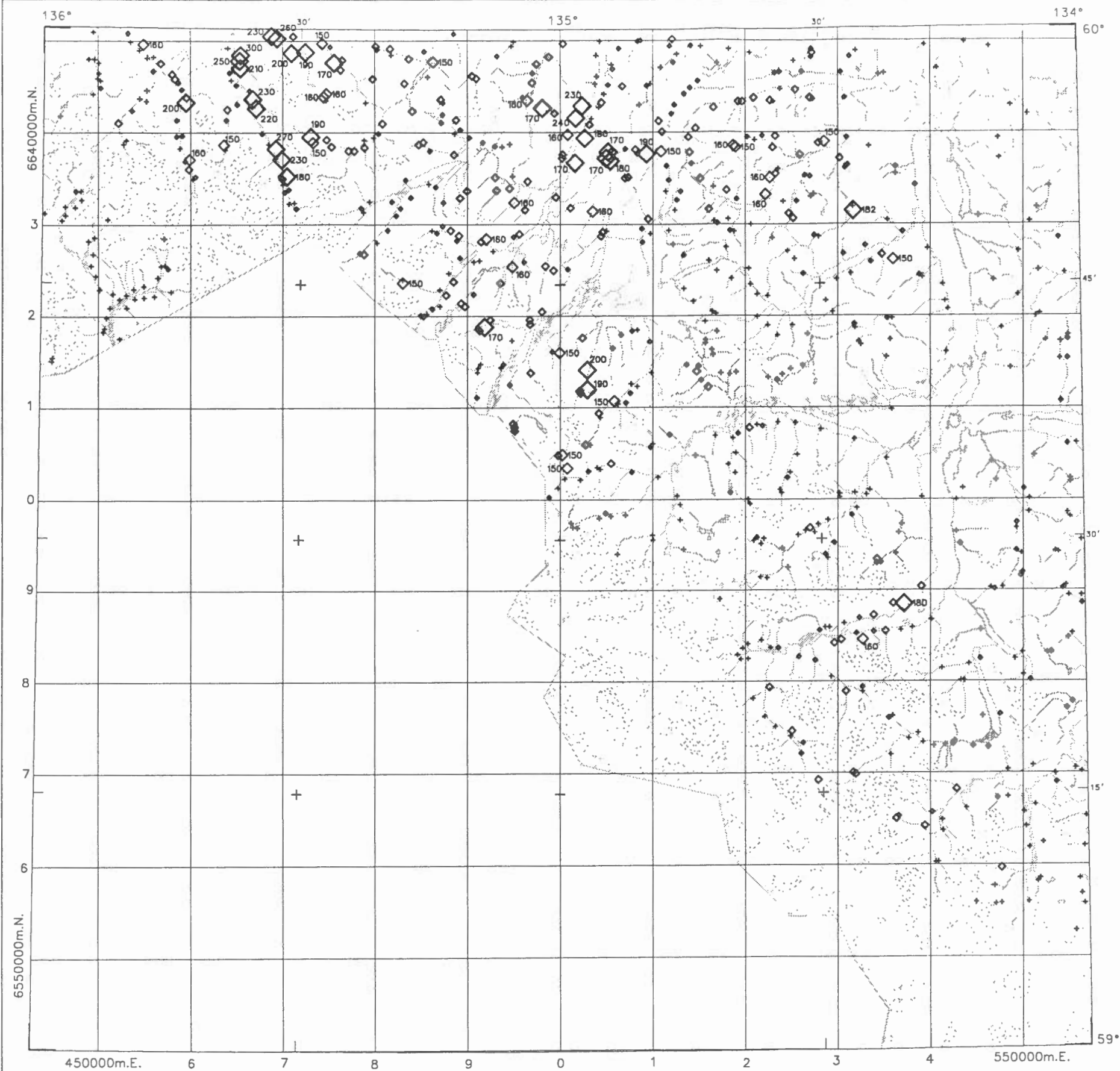
UTM ZONE 08  
NAD27 DATUM  
1:500000



**PRESENTATION FORMAT**  
Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.  
Analytical results are listed for concentrations exceeding the 90th percentile.  
Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
151 - 400	◇ N = 14 (1.9%)
98 - 150	◇ N = 23 (3.1%)
44 - 97	◇ N = 38 (5.1%)
21 - 43	◇ N = 5 (.7%)
20 - 20	+ N = 661 (89.2%)

NTS 104M - SKAGWAY  
BC RGS 37  
NICKEL by INAA (ppm)  
Map 30



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

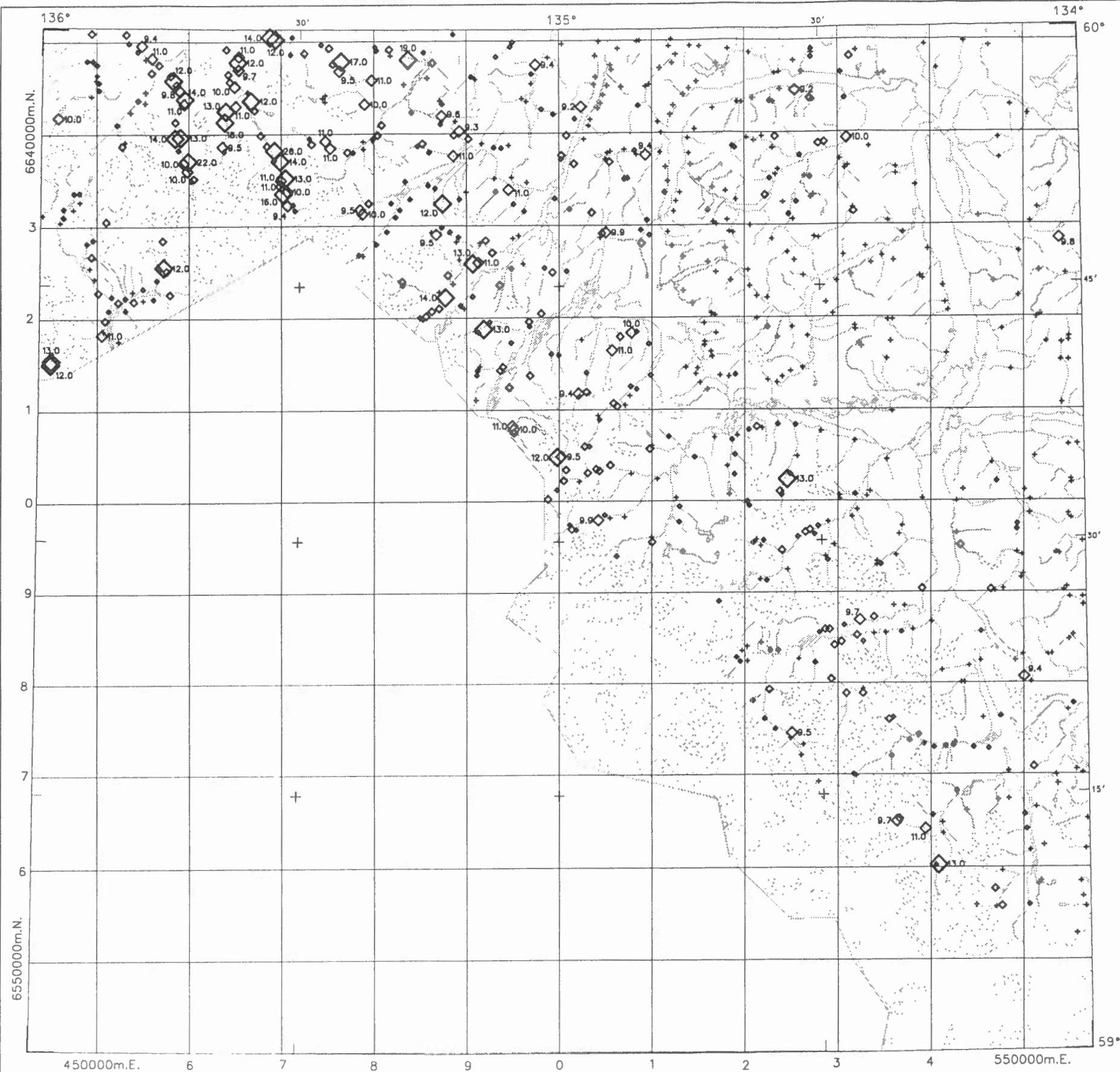
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
161 - 300	◇ N = 29 (3.9%)
141 - 160	◇ N = 27 (3.6%)
101 - 140	◇ N = 130 (17.5%)
78 - 100	● N = 183 (24.7%)
15 - 77	+ N = 372 (50.2%)

NTS 104M - SKAGWAY  
BC RGS 37

RUBIDIUM by INAA (ppm)  
Map 31



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

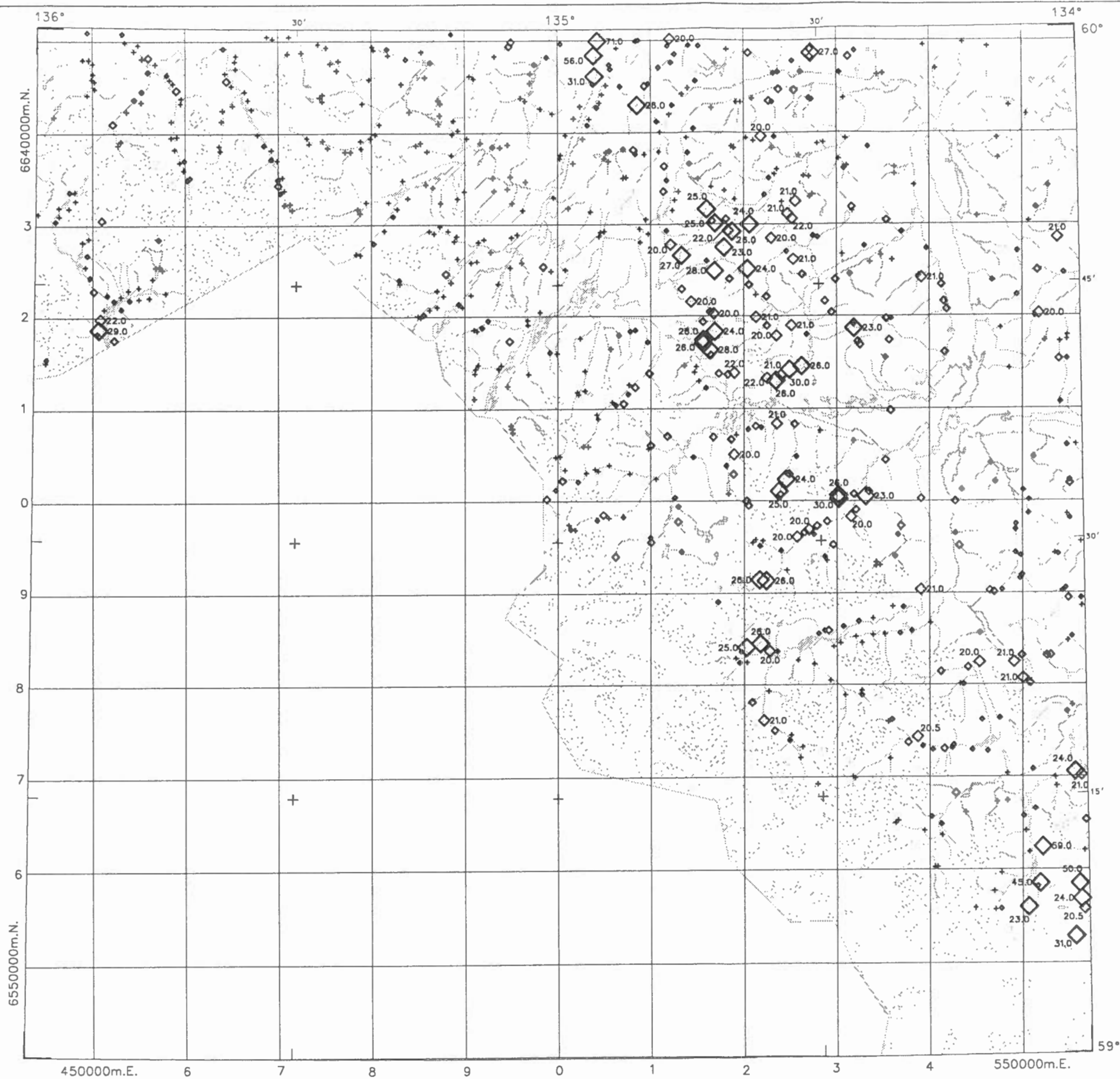
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
11.1 - 26.0	◇ N = 27 (3.6%)
9.2 - 11.0	◇ N = 49 (6.6%)
7.4 - 9.1	◇ N = 105 (14.2%)
5.6 - 7.3	• N = 189 (25.5%)
0.1 - 5.5	+ N = 371 (50.1%)

NTS 104M - SKAGWAY  
BC RGS 37

SAMARIUM by INAA (ppm)  
Map 32



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

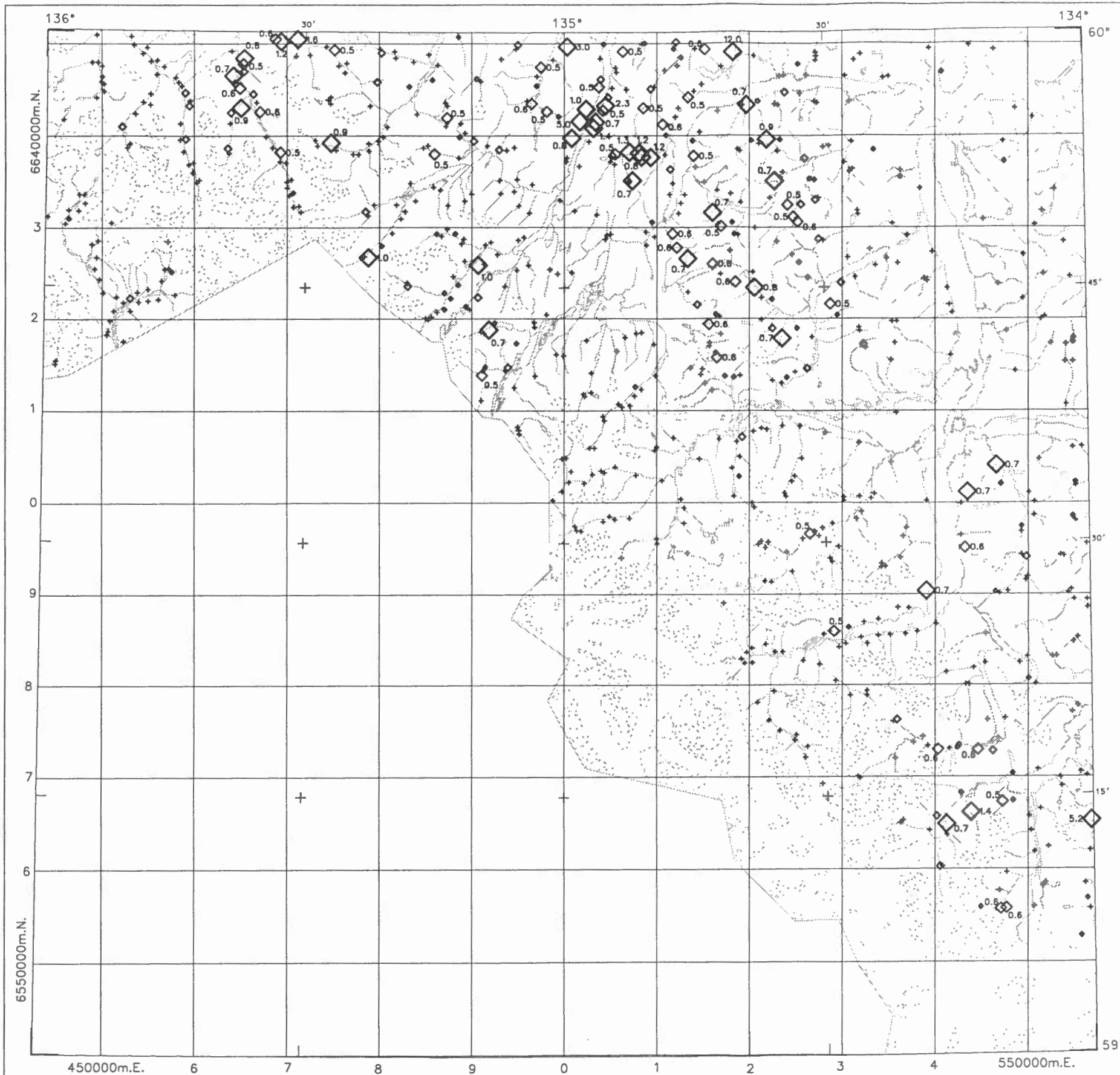
Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
22.1 - 71.0	◇ N = 38 (5.1%)
19.1 - 22.0	◇ N = 35 (4.7%)
15.1 - 19.0	◇ N = 102 (13.8%)
11.1 - 15.0	● N = 184 (24.8%)
0.7 - 11.0	+ N = 382 (51.6%)

NTS 104M - SKAGWAY  
BC RGS 37

SCANDIUM by INAA (ppm)  
Map 33





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

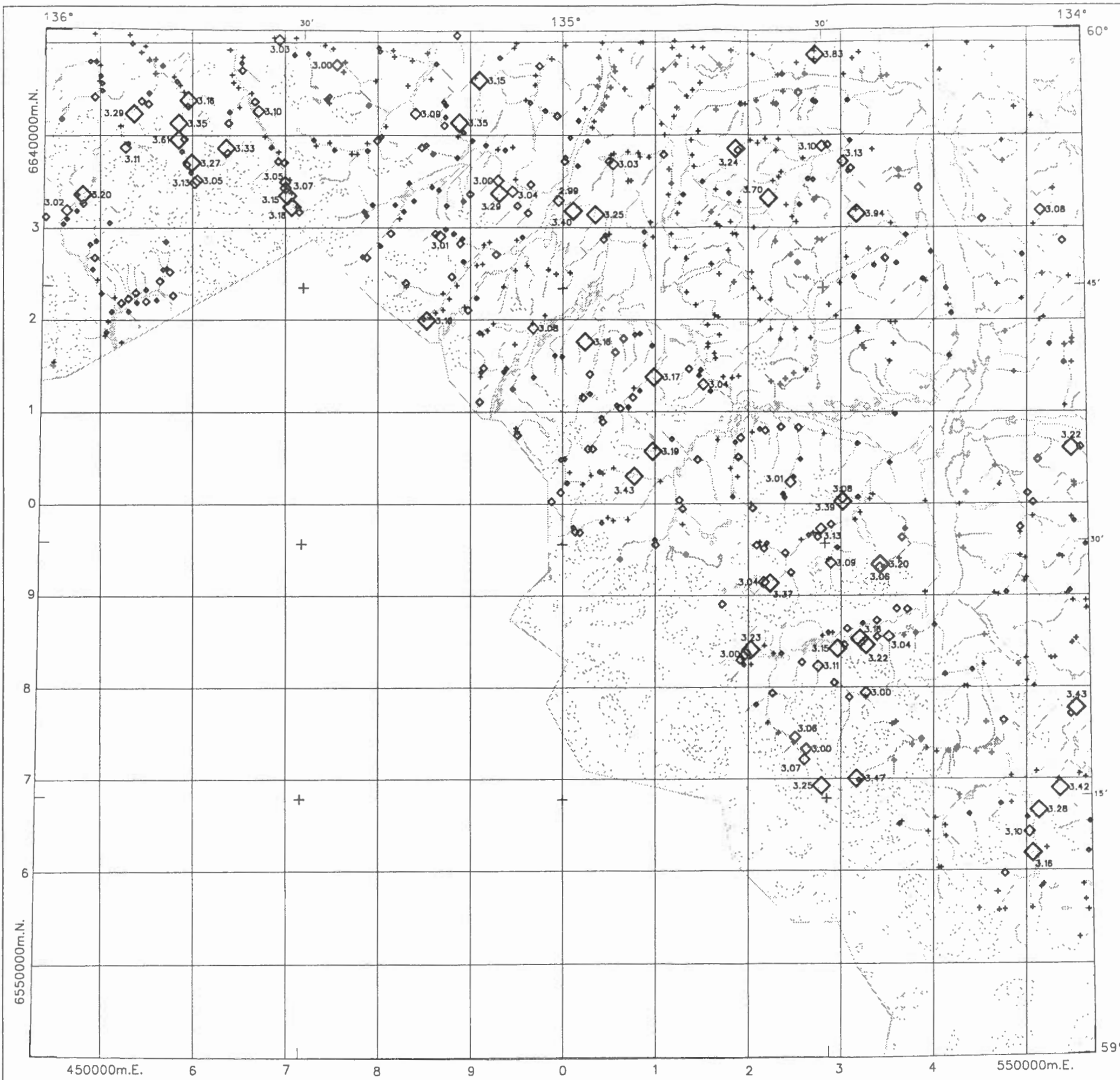
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
0.81 - 12.00	◇ N = 35 (4.7%)
0.41 - 0.80	◇ N = 40 (5.4%)
0.31 - 0.40	◇ N = 41 (5.5%)
0.21 - 0.30	● N = 71 (9.6%)
0.20 - 0.20	✦ N = 554 (74.8%)

NTS 104M - SKAGWAY  
BC RGS 37

SILVER by AAS (ppm)  
Map 34



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

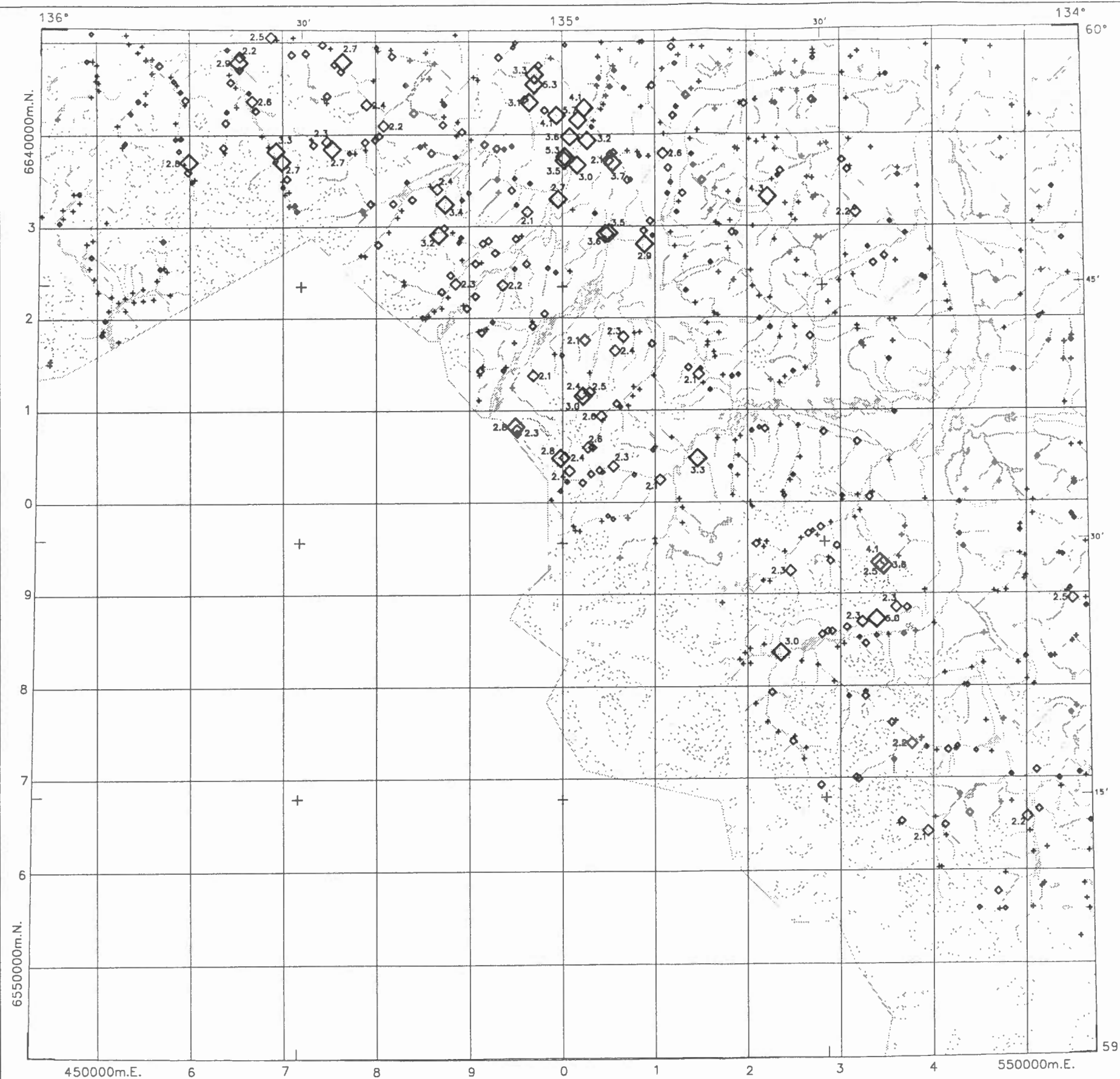
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
3.14 - 3.94	◇ N = 37 (5.0%)
2.99 - 3.13	◇ N = 34 (4.6%)
2.71 - 2.98	◇ N = 108 (14.3%)
2.39 - 2.70	● N = 183 (24.7%)
0.22 - 2.38	+ N = 381 (51.4%)

NTS 104M - SKAGWAY  
BC RGS 37

SODIUM by INAA (%)  
Map 35



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

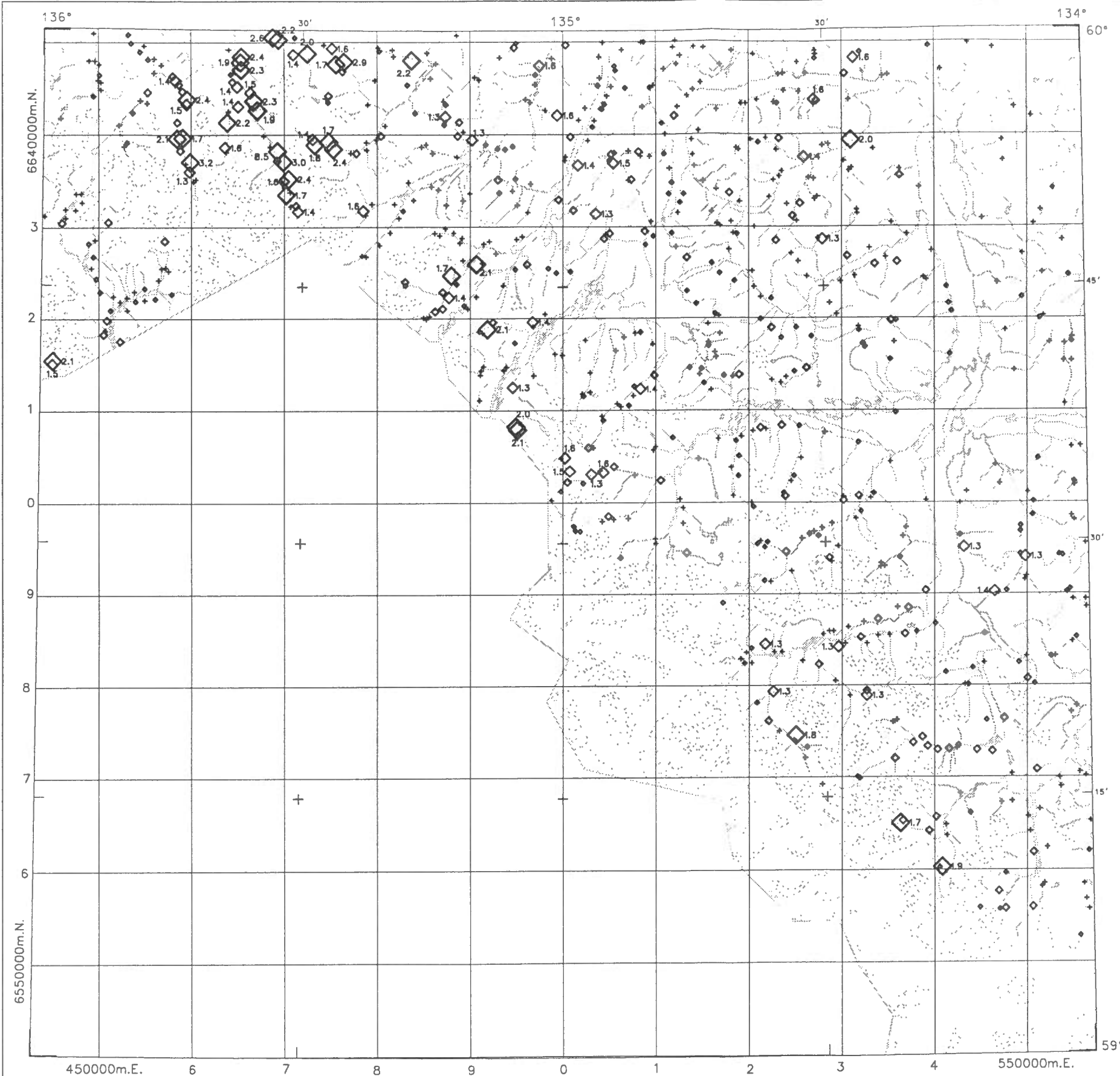
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
2.01 - 5.70	◇ N = 33 (4.5%)
2.01 - 2.00	◇ N = 35 (4.7%)
1.31 - 2.00	◇ N = 108 (14.6%)
0.51 - 1.30	• N = 152 (20.5%)
0.50 - 0.50	+ N = 413 (55.7%)

NTS 104M - SKAGWAY  
BC RGS 37

TANTALUM by INAA (ppm)  
Map 36



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

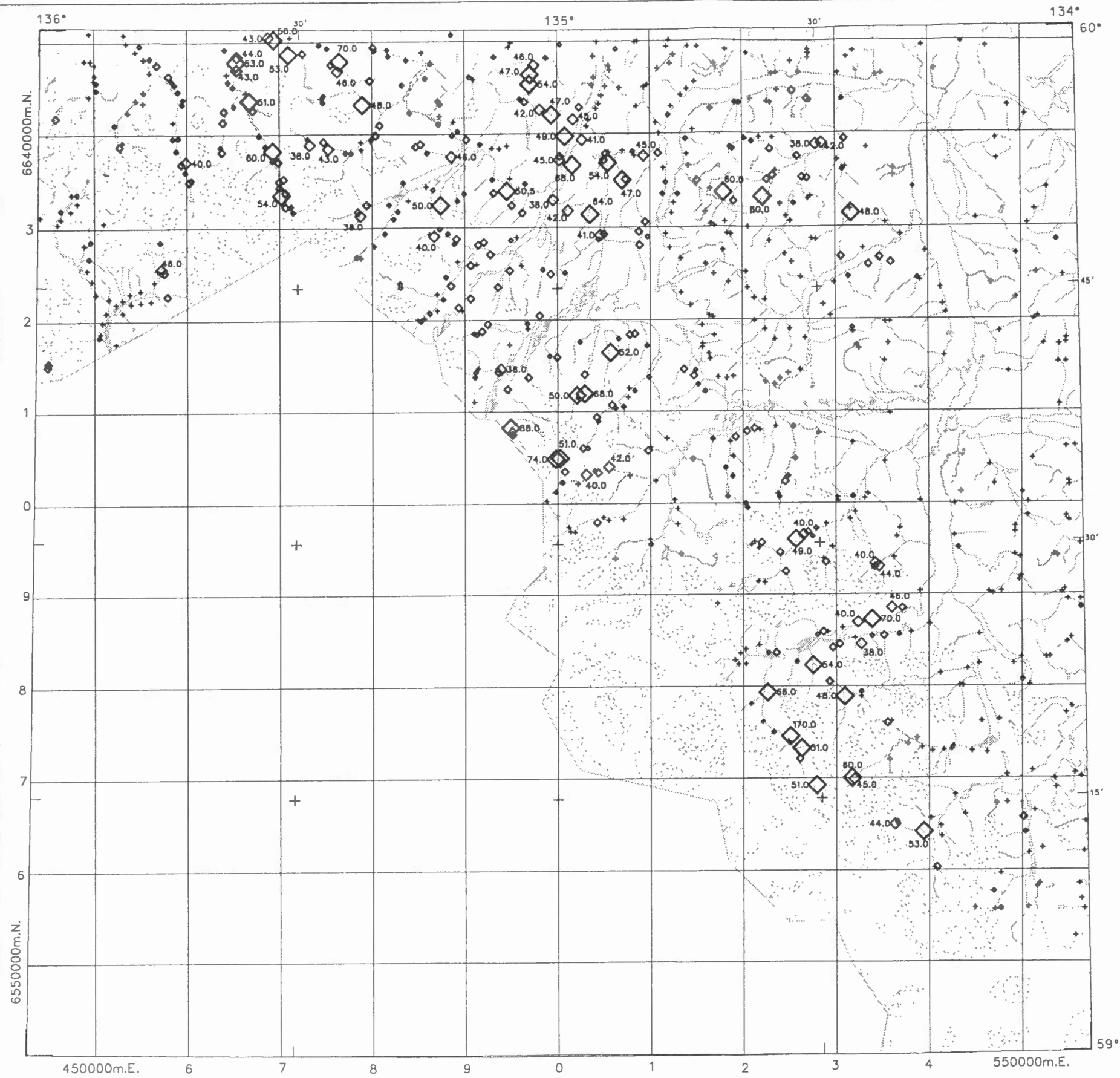
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
1.81 - 8.50	◇ N = 33 (4.5%)
1.21 - 1.80	◇ N = 40 (5.4%)
0.91 - 1.20	◇ N = 98 (13.0%)
0.51 - 0.90	◆ N = 171 (23.1%)
0.50 - 0.50	+ N = 401 (54.1%)

NTS 104M - SKAGWAY  
BC RGS 37

TERBIUM by INAA (ppm)  
Map 37



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

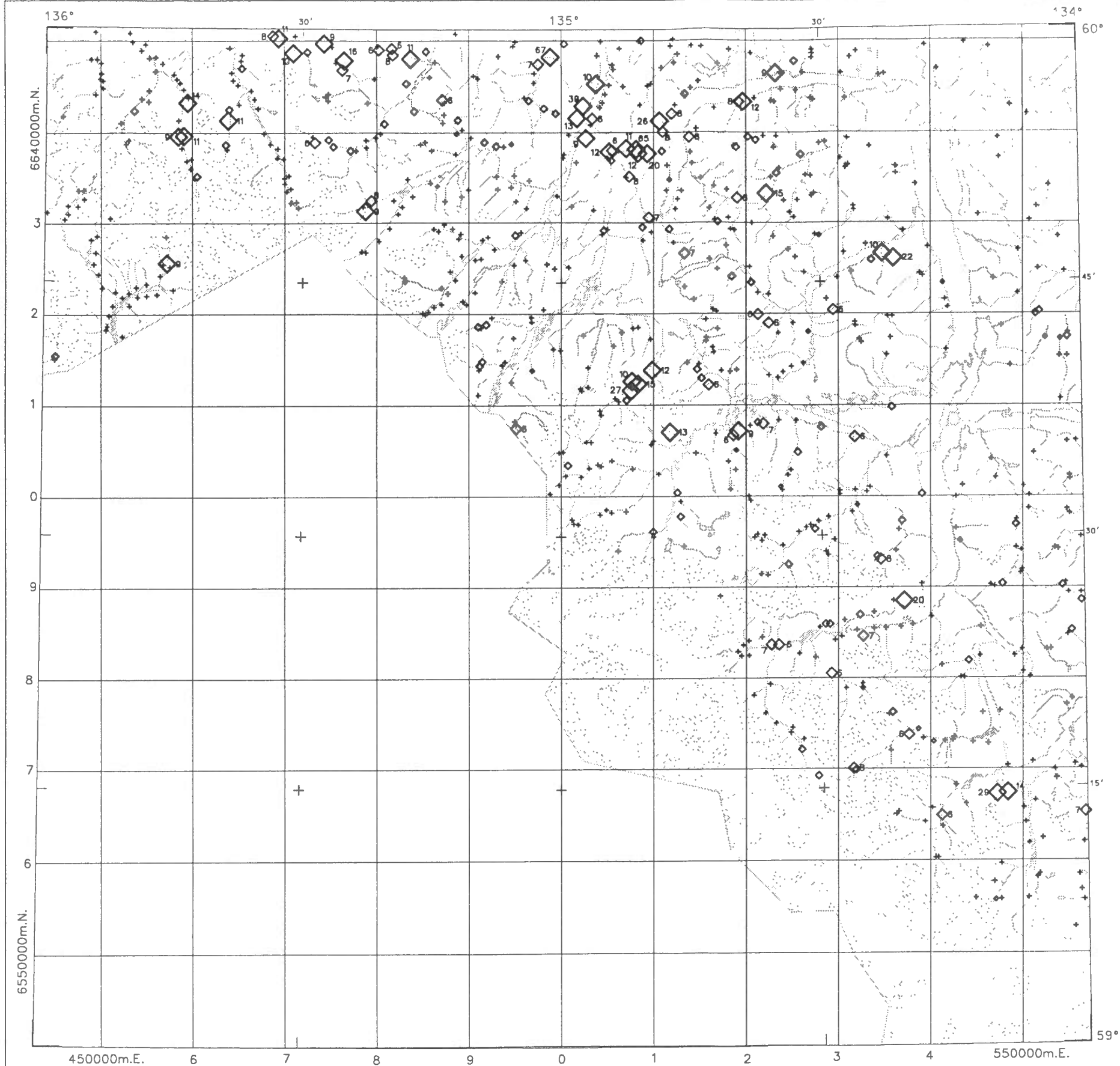
Field duplicate results are averaged.

STREAM SEDIMENTS		
Concentration		Frequency
N = 741 SAMPLES		
48.1 - 170.0	◇	N = 37 (5.0%)
37.1 - 48.0	◇	N = 33 (4.5%)
24.1 - 37.0	◇	N = 114 (15.4%)
16.1 - 24.0	◆	N = 158 (21.3%)
0.6 - 16.0	+	N = 399 (53.8%)

NTS 104M - SKAGWAY  
BC RGS 37

THORIUM by INAA (ppm)  
Map 38





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

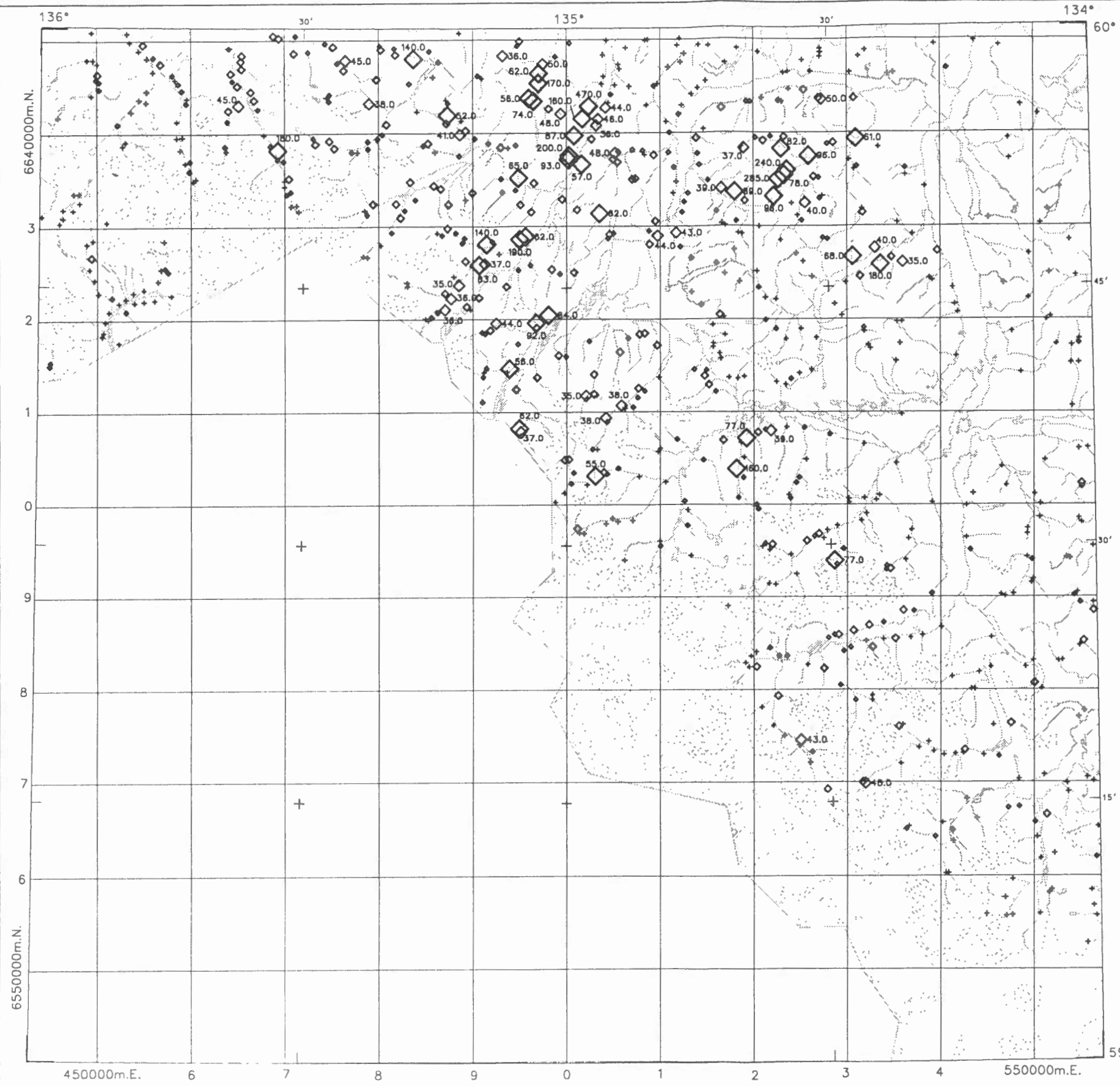
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
9-67	◇ N = 36 (4.9%)
3-5	◇ N = 36 (4.9%)
2-2	◇ N = 75 (10.1%)
1-1	◇ N = 18 (2.4%)
1-1	+ N = 576 (77.7%)

NTS 104M - SKAGWAY  
BC RGS 37

TUNGSTEN by INAA (ppm)  
Map 39



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

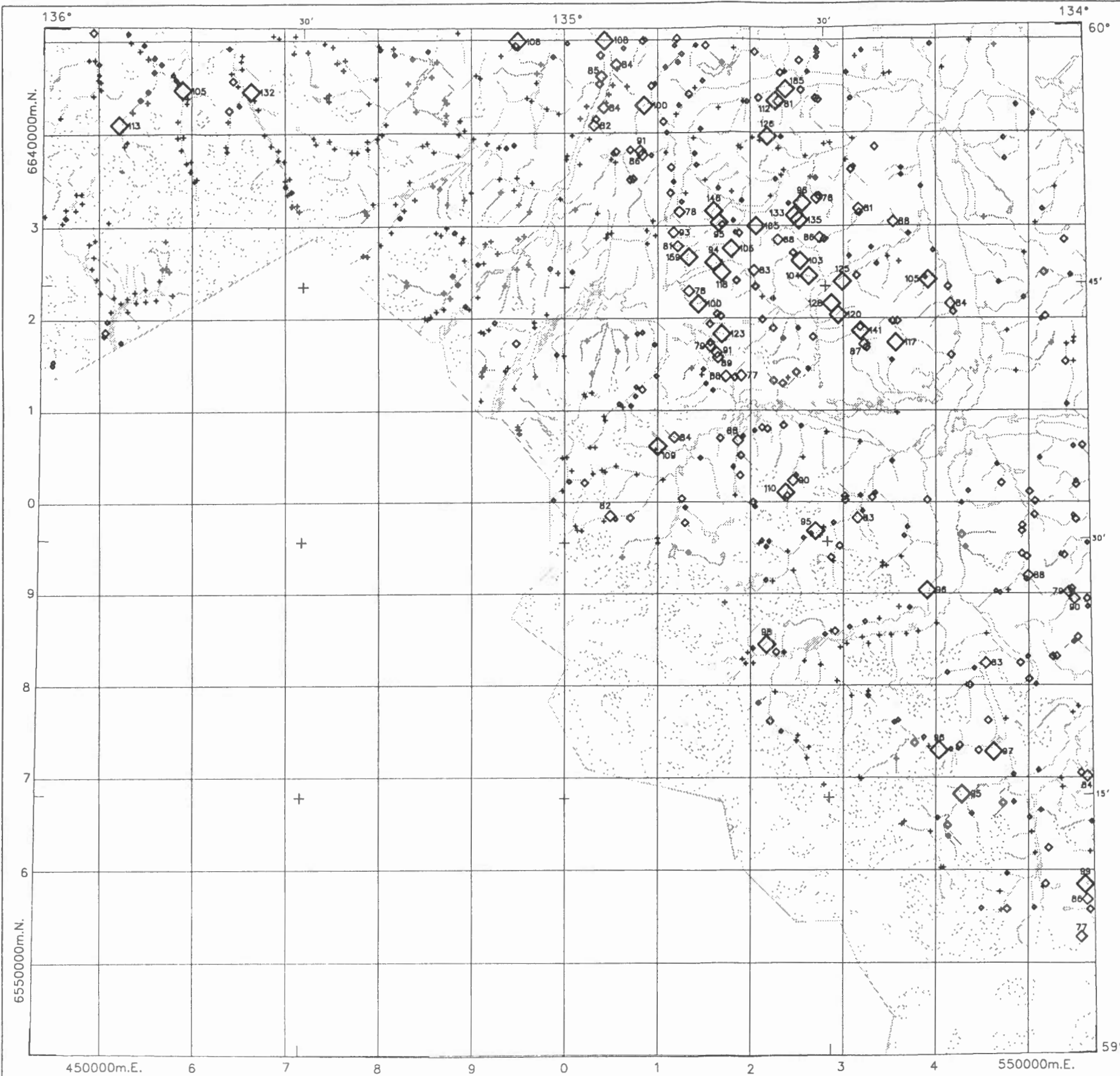
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
50.1 - 470.0	◇ N = 37 (5.0%)
34.1 - 50.0	◇ N = 31 (4.2%)
17.1 - 34.0	◇ N = 119 (16.1%)
8.8 - 17.0	● N = 183 (24.7%)
0.5 - 8.7	+ N = 371 (50.1%)

NTS 104M - SKAGWAY  
BC RGS 37

URANIUM by INAA (ppm)  
Map 40



104M

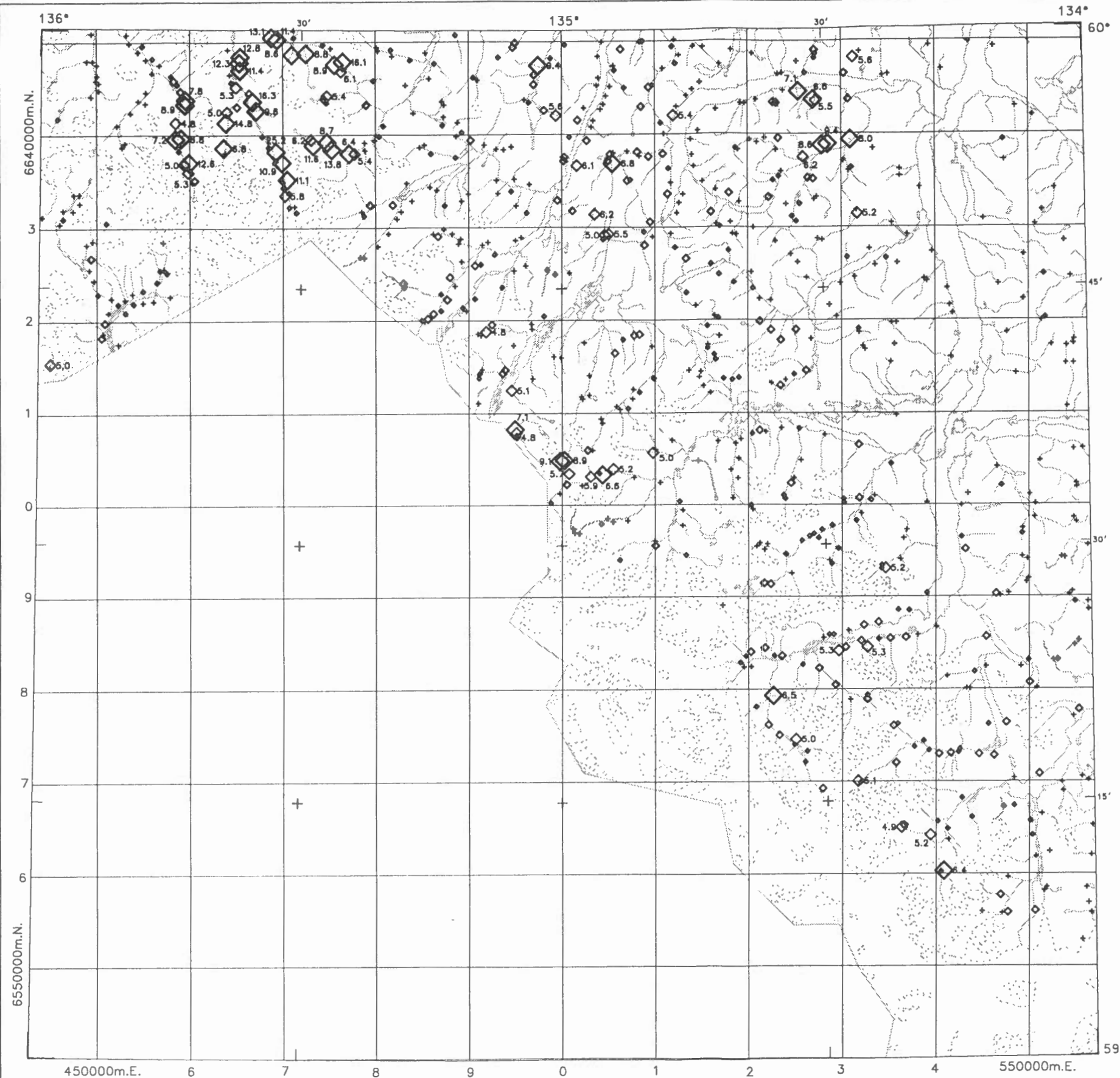
UTM ZONE 08  
NAD27 DATUM  
1:500000



**PRESENTATION FORMAT**  
Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.  
Analytical results are listed for concentrations exceeding the 90th percentile.  
Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
94-185	◇ N = 38 (5.1%)
77-93	◇ N = 36 (4.9%)
56-78	◇ N = 115 (15.5%)
38-55	◇ N = 182 (24.6%)
5-35	+ N = 370 (49.9%)

NTS 104M - SKAGWAY  
BC RGS 37  
VANADIUM by AAS (ppm)  
Map 41



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

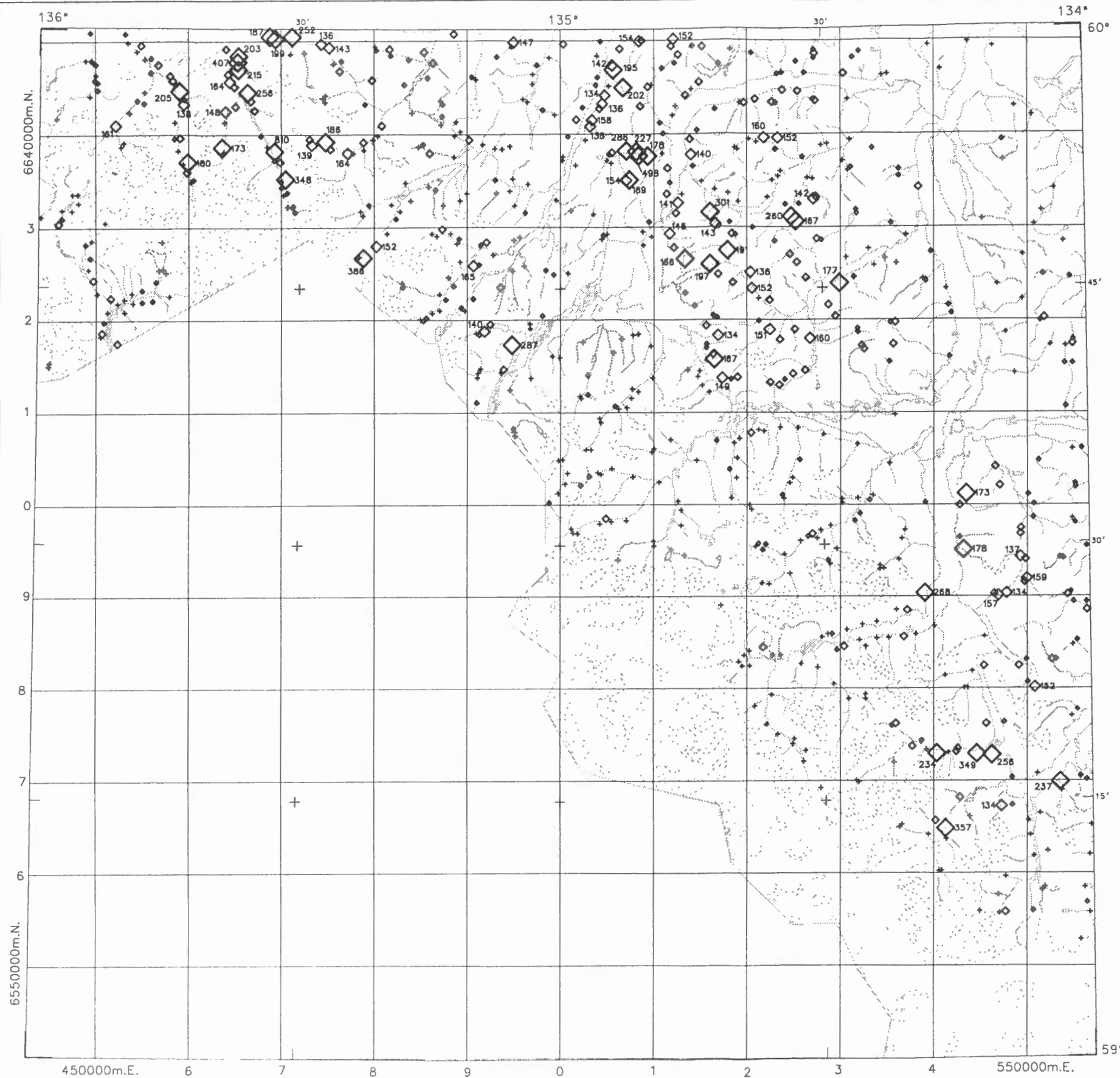
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
6.3 - 25.2	◇ N = 38 (5.1%)
4.8 - 6.2	◇ N = 35 (4.7%)
3.6 - 4.7	◇ N = 109 (14.7%)
2.6 - 3.5	◆ N = 177 (23.9%)
0.2 - 2.7	+ N = 382 (51.6%)

NTS 104M - SKAGWAY  
BC RGS 37

YTTERBIUM by INAA (ppm)  
Map 42



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

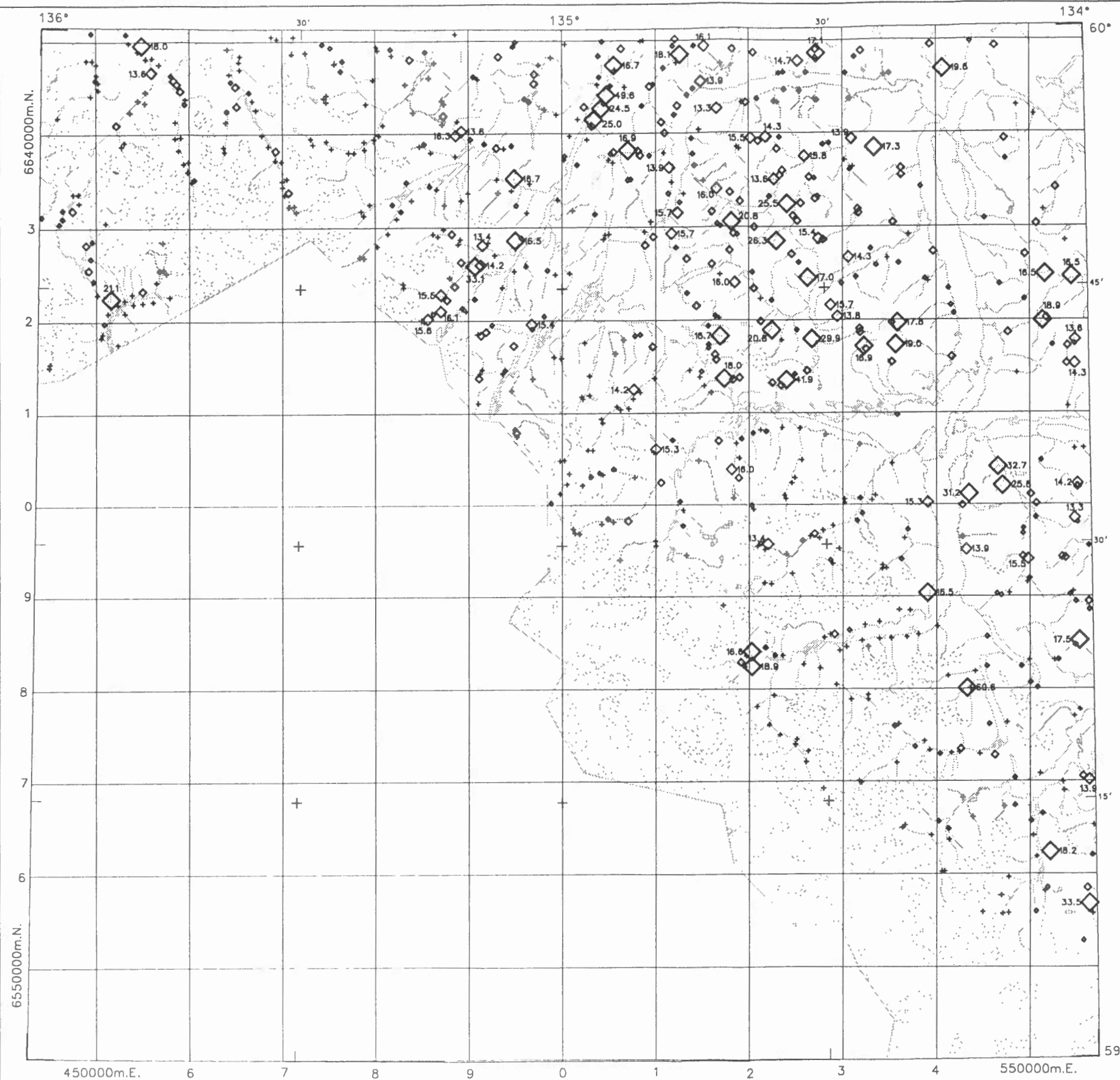
Field duplicate results are averaged.

STREAM SEDIMENTS		
Concentration		Frequency
N = 741 SAMPLES		
166 - 810	◇	N = 38 (5.1%)
134 - 165	◇	N = 39 (5.3%)
92 - 133	◇	N = 116 (15.7%)
63 - 91	◆	N = 187 (25.2%)
7 - 62	+	N = 381 (48.7%)

NTS 104M - SKAGWAY  
BC RGS 37

ZINC by AAS (ppm)  
Map 43





104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

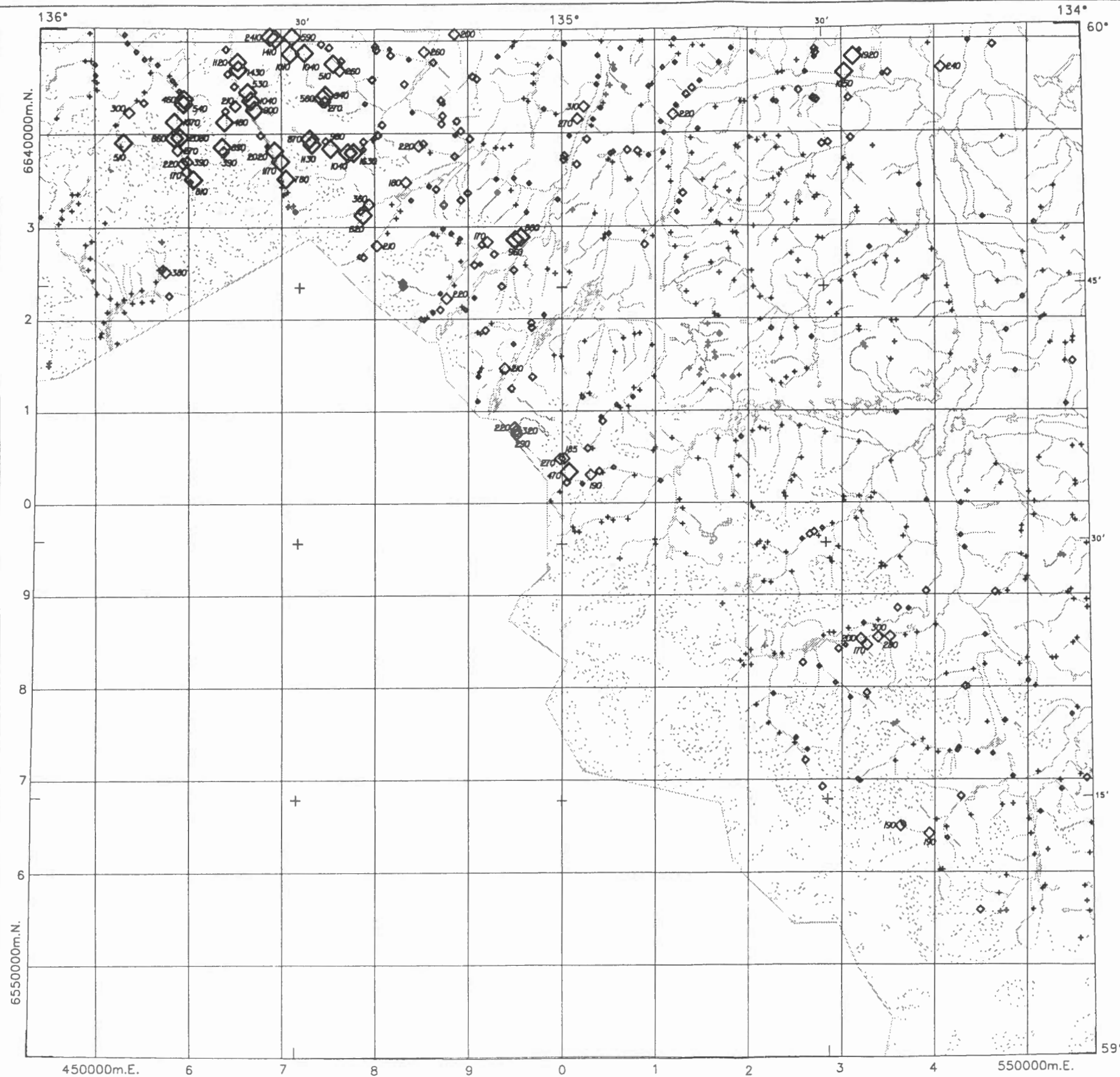
Field duplicate results are averaged.

STREAM SEDIMENTS	
Concentration	Frequency
N = 741 SAMPLES	
16.4 - 60.6	◇ N = 39 (5.3%)
13.3 - 16.3	◇ N = 39 (5.3%)
8.0 - 13.2	◇ N = 115 (15.5%)
3.9 - 7.9	◆ N = 187 (25.2%)
0.1 - 3.8	✦ N = 361 (48.7%)

NTS 104M - SKAGWAY  
BC RGS 37

LOSS on IGNITION (%)

Map 44



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

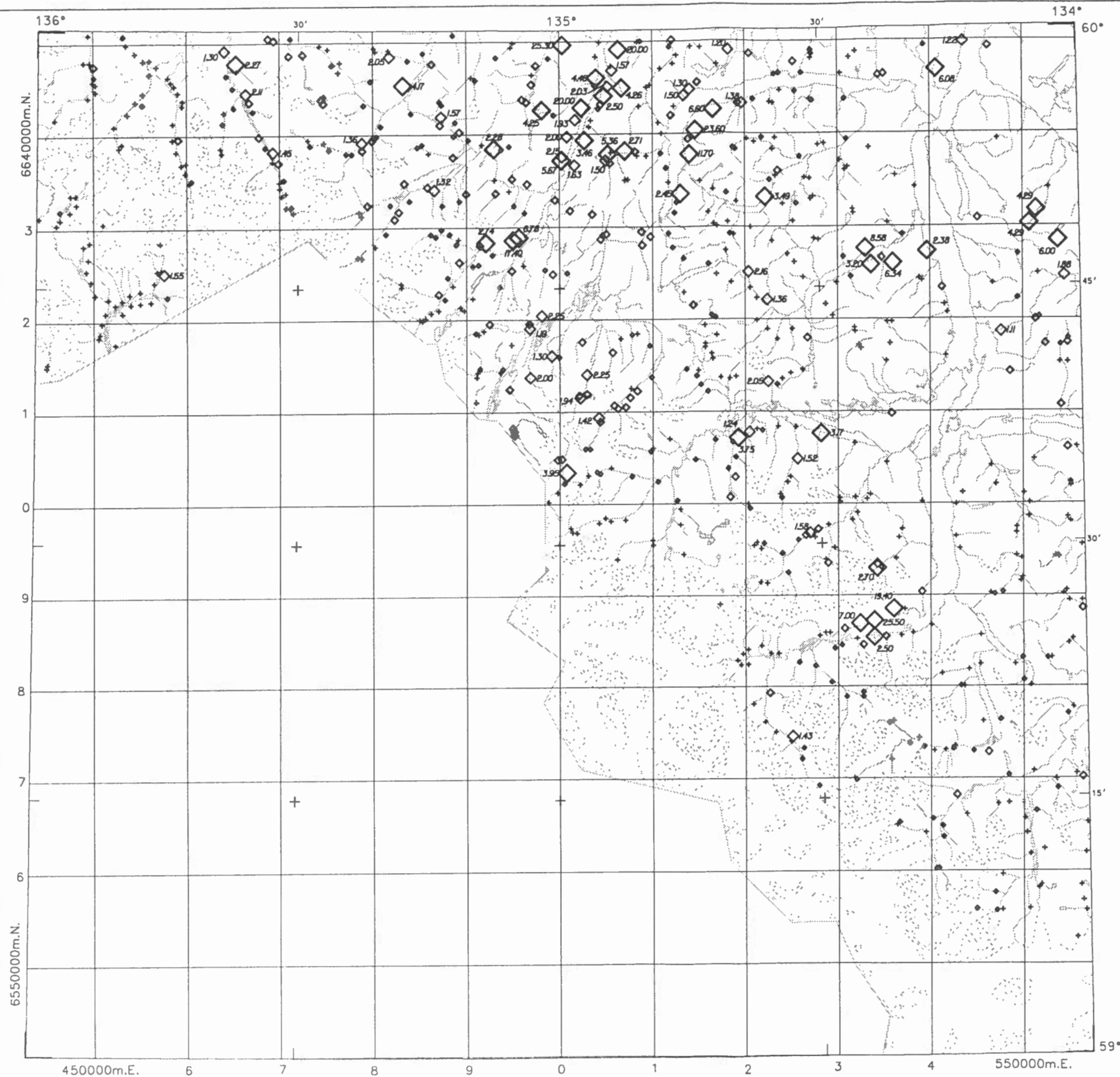
Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM WATERS	
Concentration	Frequency
N = 729 SAMPLES	
391 - 2410	◇ N = 36 (4.9%)
161 - 390	◇ N = 35 (4.8%)
81 - 160	◇ N = 90 (12.3%)
51 - 80	◇ N = 134 (18.4%)
20 - 50	+ N = 434 (59.5%)

NTS 104M - SKAGWAY  
BC RGS 37  
FLUORIDE by ION (ppb)  
Map 45



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

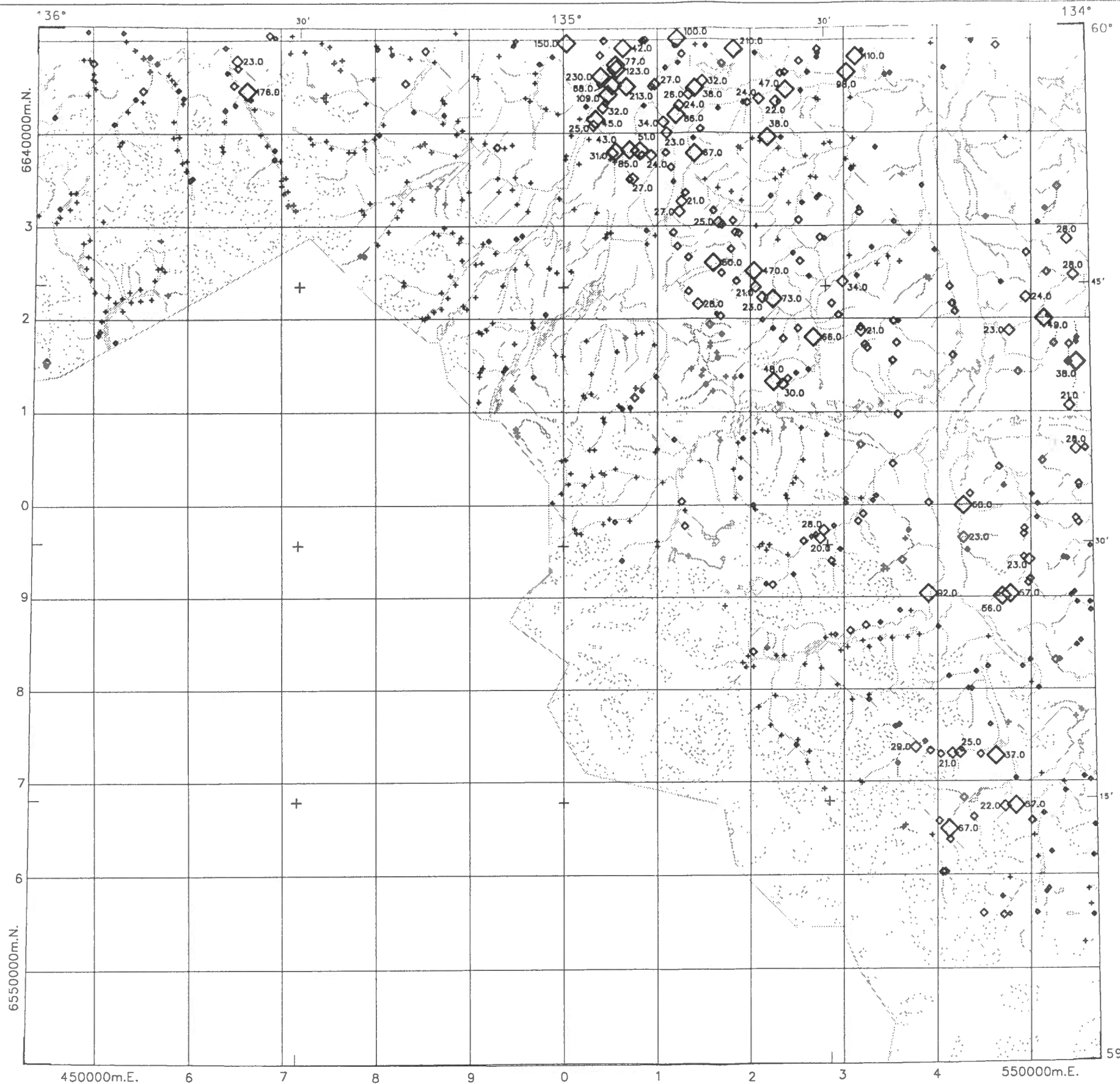
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM WATERS	
Concentration	Frequency
N = 729 SAMPLES	
2.28 - 25.50	◆ N = 38 (5.2%)
1.08 - 2.25	◇ N = 38 (4.9%)
0.37 - 1.05	◊ N = 102 (14.0%)
0.12 - 0.36	• N = 178 (24.1%)
0.05 - 0.11	+ N = 377 (51.7%)

NTS 104M - SKAGWAY  
BC RGS 37

URANIUM by LIF (ppb)  
Map 46



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



#### PRESENTATION FORMAT

Concentration ranges are based on the 50th, 75th, 90th and 95th percentiles. Percentiles are calculated using the raw data.

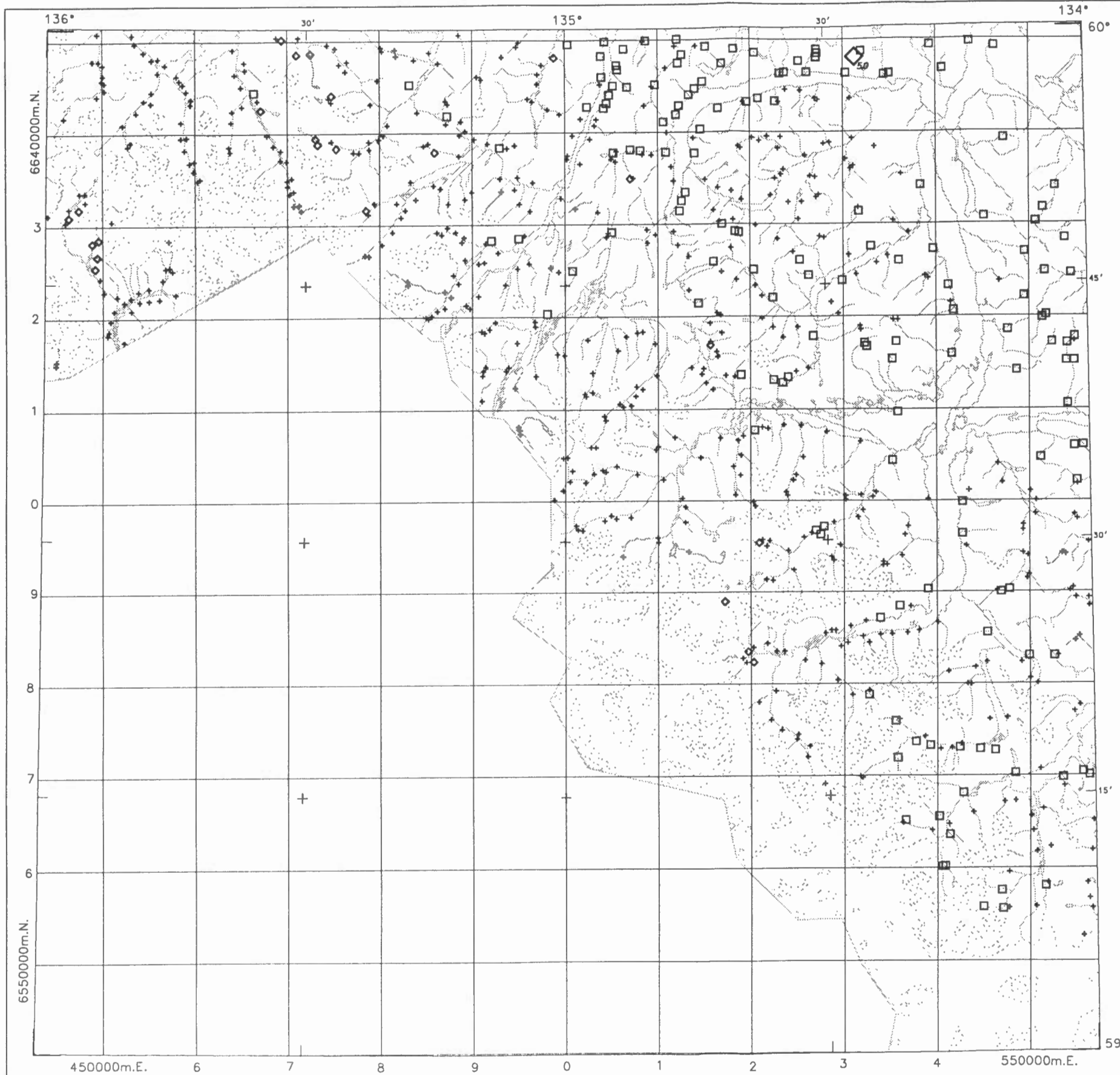
Analytical results are listed for concentrations exceeding the 90th percentile.

Field duplicate results are averaged.

STREAM WATERS	
Concentration	Frequency
N = 729 SAMPLES	
34.1 - 470.0	◇ N = 38 (4.8%)
19.1 - 34.0	◇ N = 37 (5.1%)
6.9 - 19.0	◇ N = 110 (15.1%)
2.0 - 6.8	◆ N = 174 (23.8%)
0.1 - 1.9	+ N = 372 (51.0%)

NTS 104M - SKAGWAY  
BC RGS 37

SULPHATE by TURB (ppm)  
Map 47



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000



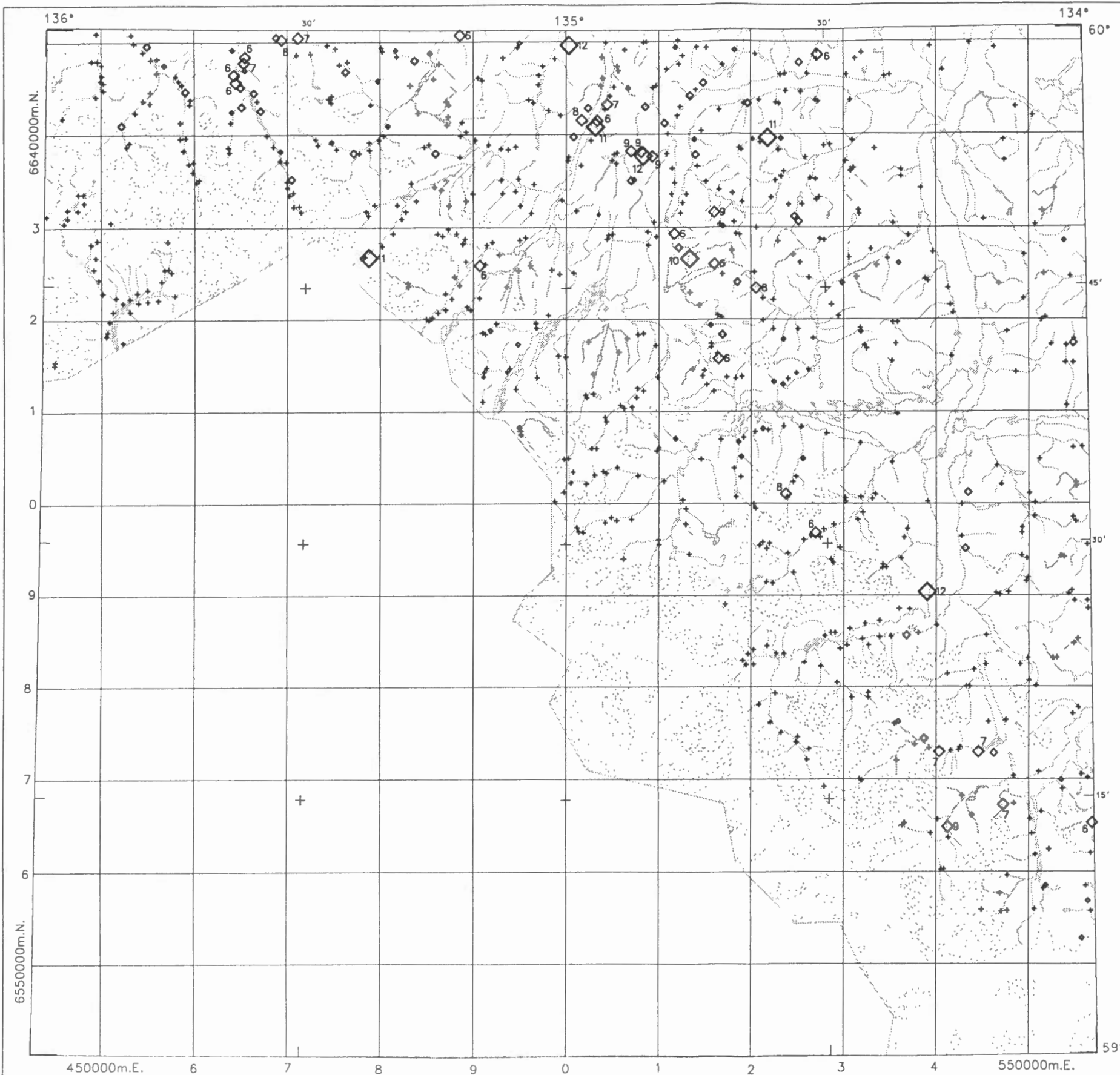
PRESENTATION FORMAT

Concentration ranges are based on absolute analytical values.  
Analytical results are listed for values greater than 8.5 and less than 5.5.  
Field duplicate results are averaged.

STREAM WATERS	
Concentration	Frequency
N = 729 SAMPLES	
8.6 - 14.0	□ N = 0 (.0%)
7.6 - 8.5	□ N = 154 (21.1%)
6.5 - 7.5	+ N = 551 (75.6%)
5.5 - 6.4	◇ N = 23 (3.2%)
4.0 - 5.4	◇ N = 1 (.1%)

NTS 104M - SKAGWAY  
BC RGS 37  
pH by GCE  
Map 48





104M

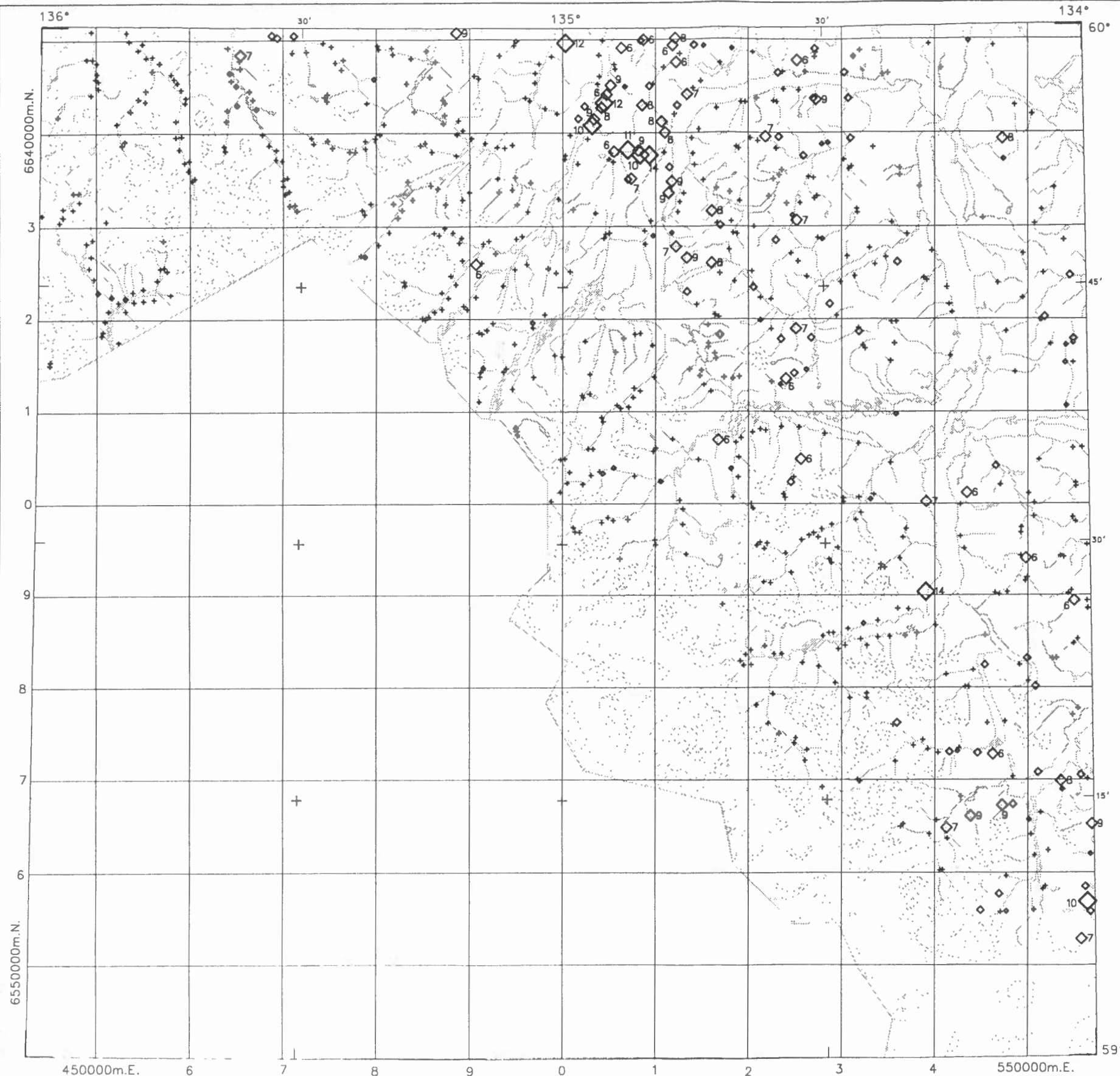
UTM ZONE 08  
NAD27 DATUM  
1:500000



**PRESENTATION FORMAT**  
 Ranges are based on absolute values.  
 Values are listed for ratings greater than 5.  
 The field duplicate sample returning the highest rating is presented.  
 Refer to Open File text for detailed information on methodology.

STREAM SEDIMENTS		
Rating		Frequency
N = 741 SAMPLES		
10 - 12	◇	N = 7 (0.9%)
8 - 9	◊	N = 27 (3.6%)
4 - 5	◈	N = 34 (4.6%)
3 - 3	◆	N = 41 (5.5%)
< 3	+	N = 632 (85.3%)

NTS 104M - SKAGWAY  
 BC RGS 37  
 BASE METAL ANOMALY MAP  
 Cu - Pb - Zn - Ag  
 Map 49



104M

UTM ZONE 08  
NAD27 DATUM  
1:500000

0 25km

#### PRESENTATION FORMAT

Ranges are based on absolute values.

Values are listed for ratings greater than 5.

The field duplicate sample returning the highest rating is presented.

Refer to Open File text for detailed information on methodology.

STREAM SEDIMENTS			
Rating		Frequency	
N = 741 SAMPLES			
10 - 14	◇	N = 8	(1.1%)
8 - 9	◇	N = 45	(6.1%)
4 - 5	◇	N = 48	(6.5%)
3 - 3	◇	N = 45	(6.1%)
< 3	+	N = 595	(80.3%)

NTS 104M - SKAGWAY  
BC RGS 37  
PRECIOUS METAL ANOMALY MAP  
Au - Sb - As - Hg - Ag  
Map 50

