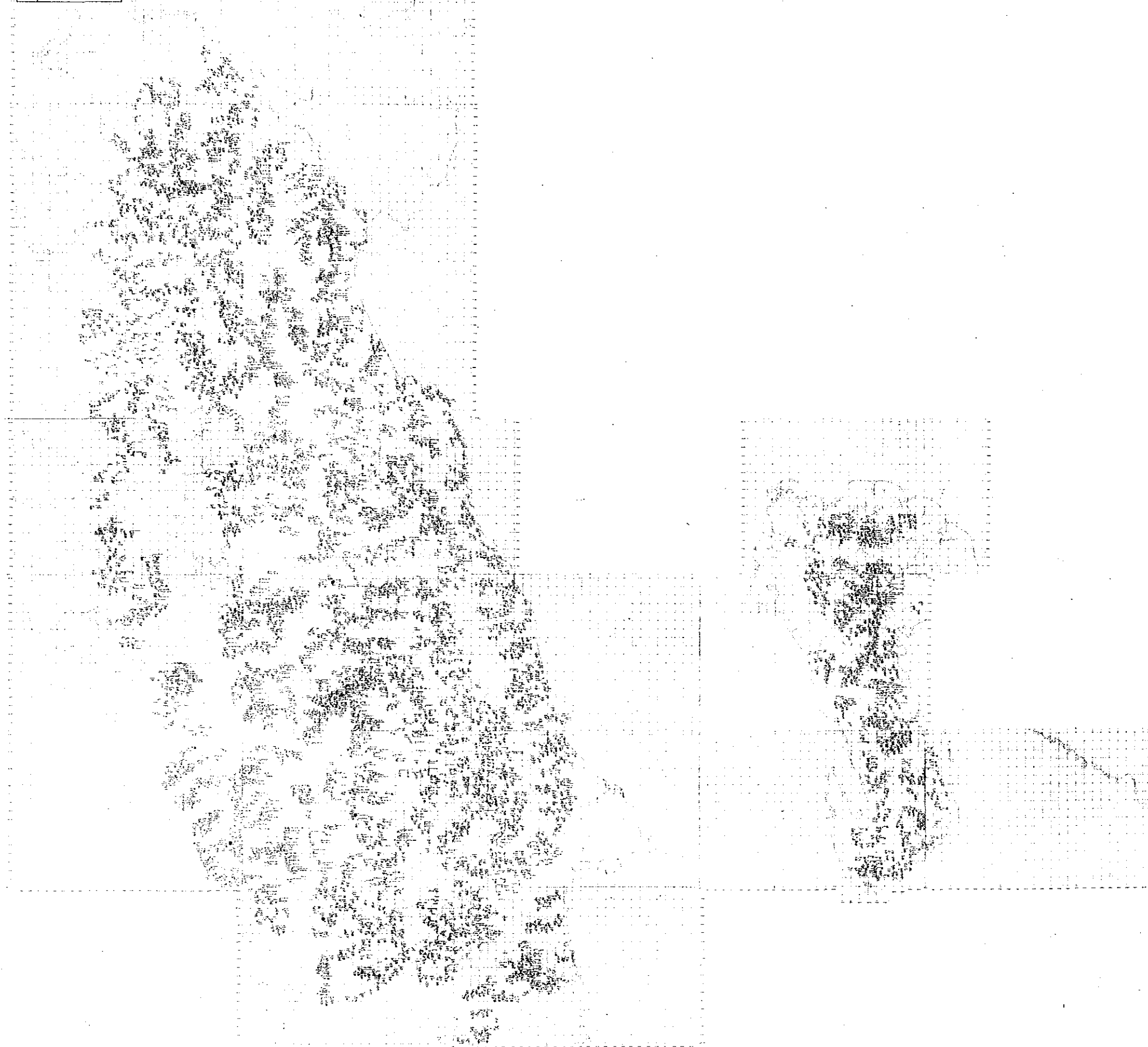


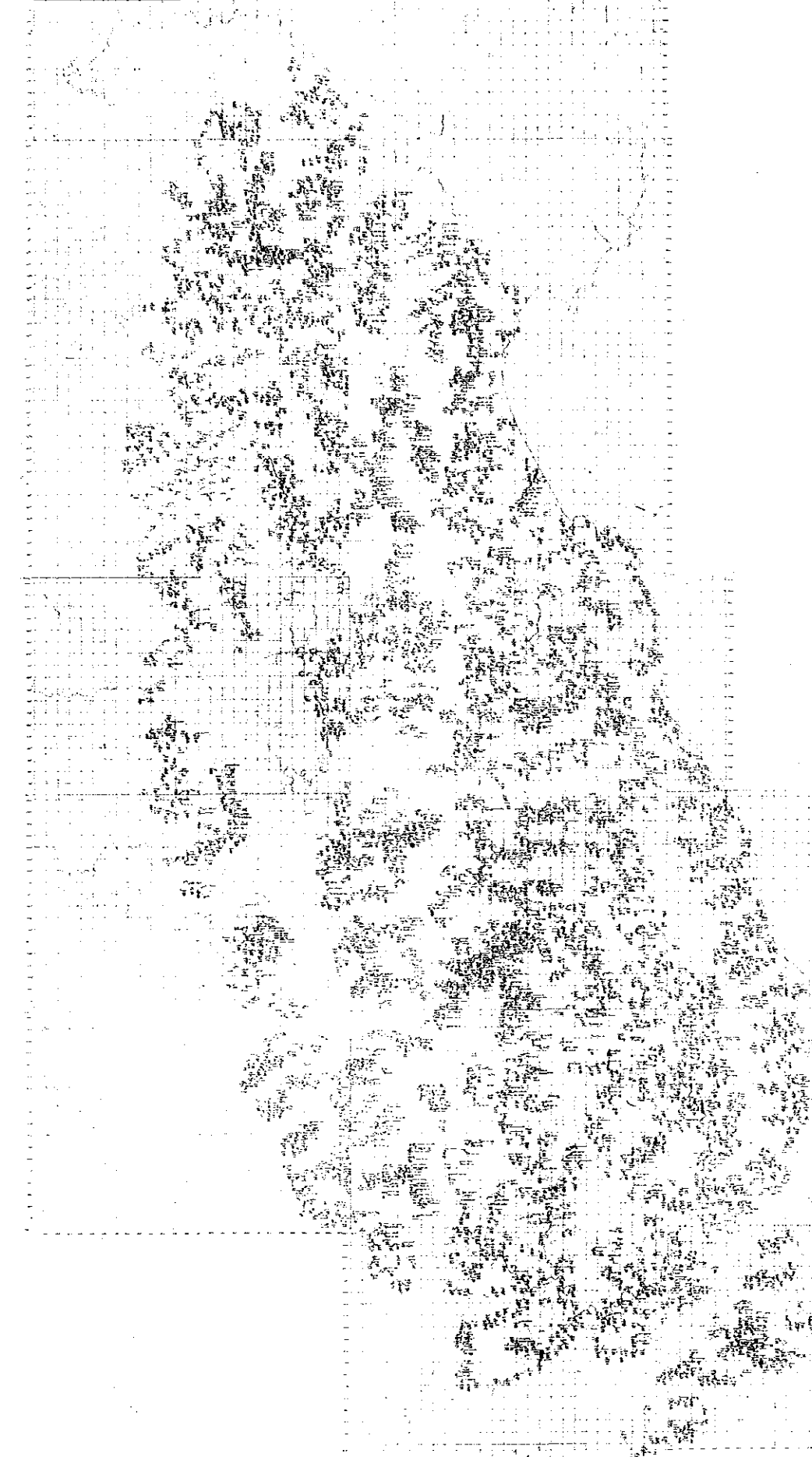
Ni (ppm)	
•	56 ≤ Ni < 67
▲	67 ≤ Ni < 80
■	80 ≤ Ni

Ni



Co (ppm)	
•	58 ≤ Co < 69
▲	69 ≤ Co < 82
■	82 ≤ Co

Co



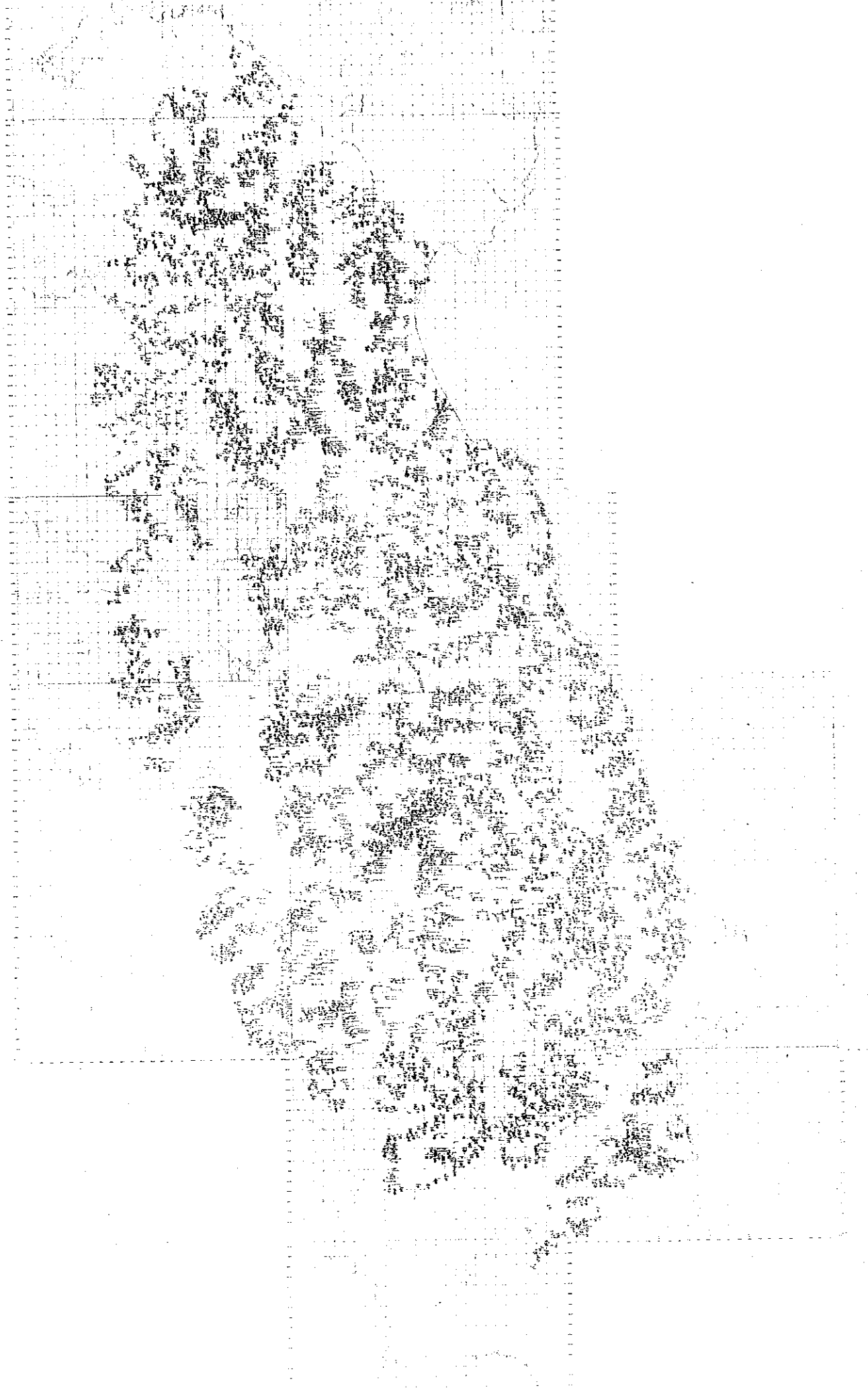
Co (ppm)	
●	50 ≤ Co < 60
▲	60 ≤ Co < 80
■	80 ≤ Co

Co



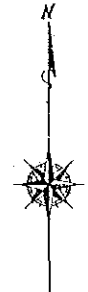
Mn (ppm)	
●	300 ≤ Mn < 350
▲	350 ≤ Mn < 400
■	400 ≤ Mn

Mn



Mn (ppm)	
●	3037 ≤ Mn < 3107
▲	3157 ≤ Mn < 4000
■	4500 ≤ Mn

Mn



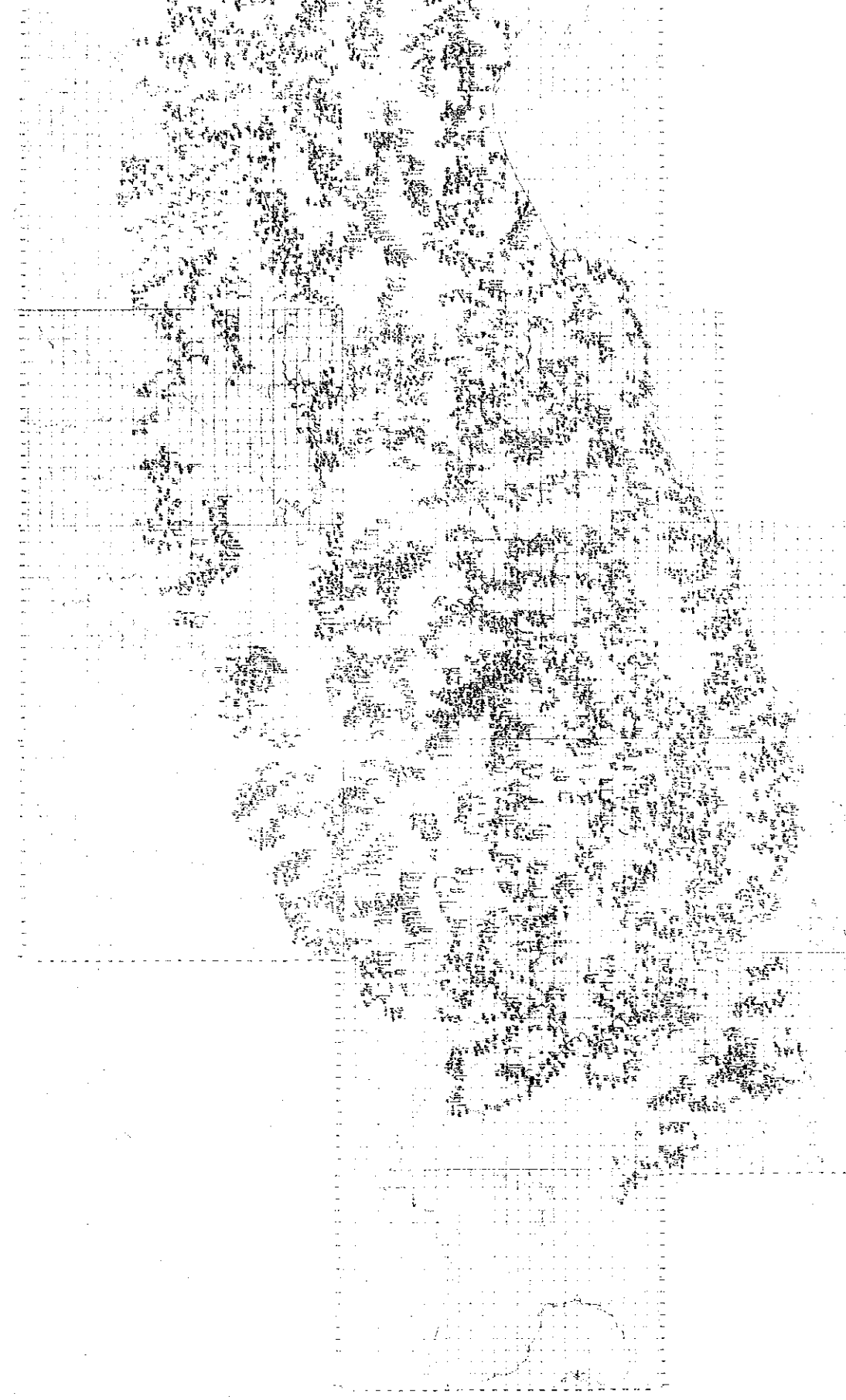
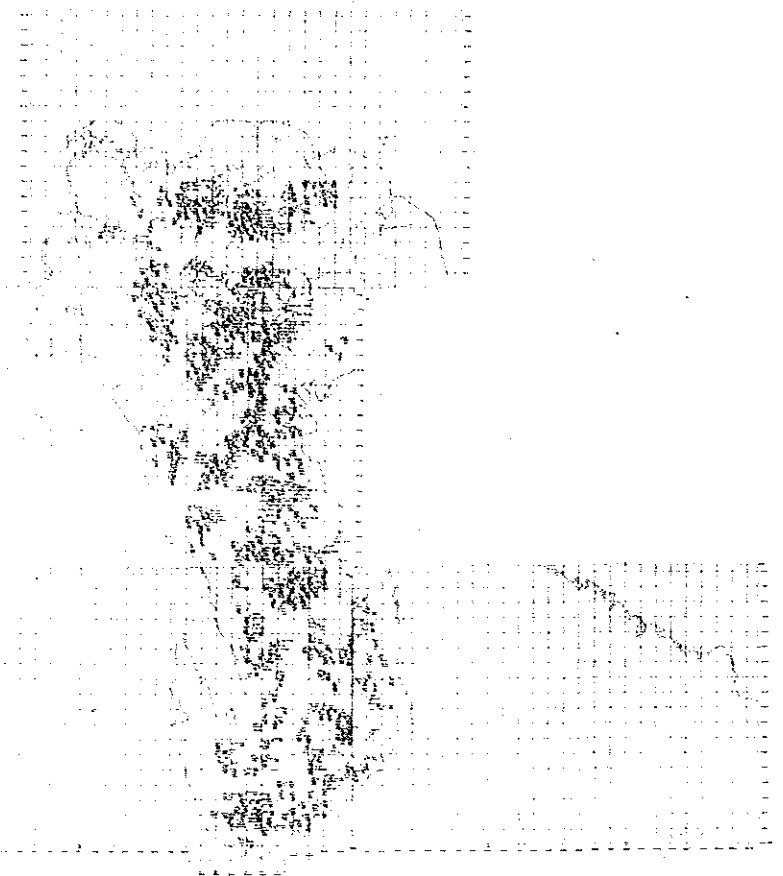
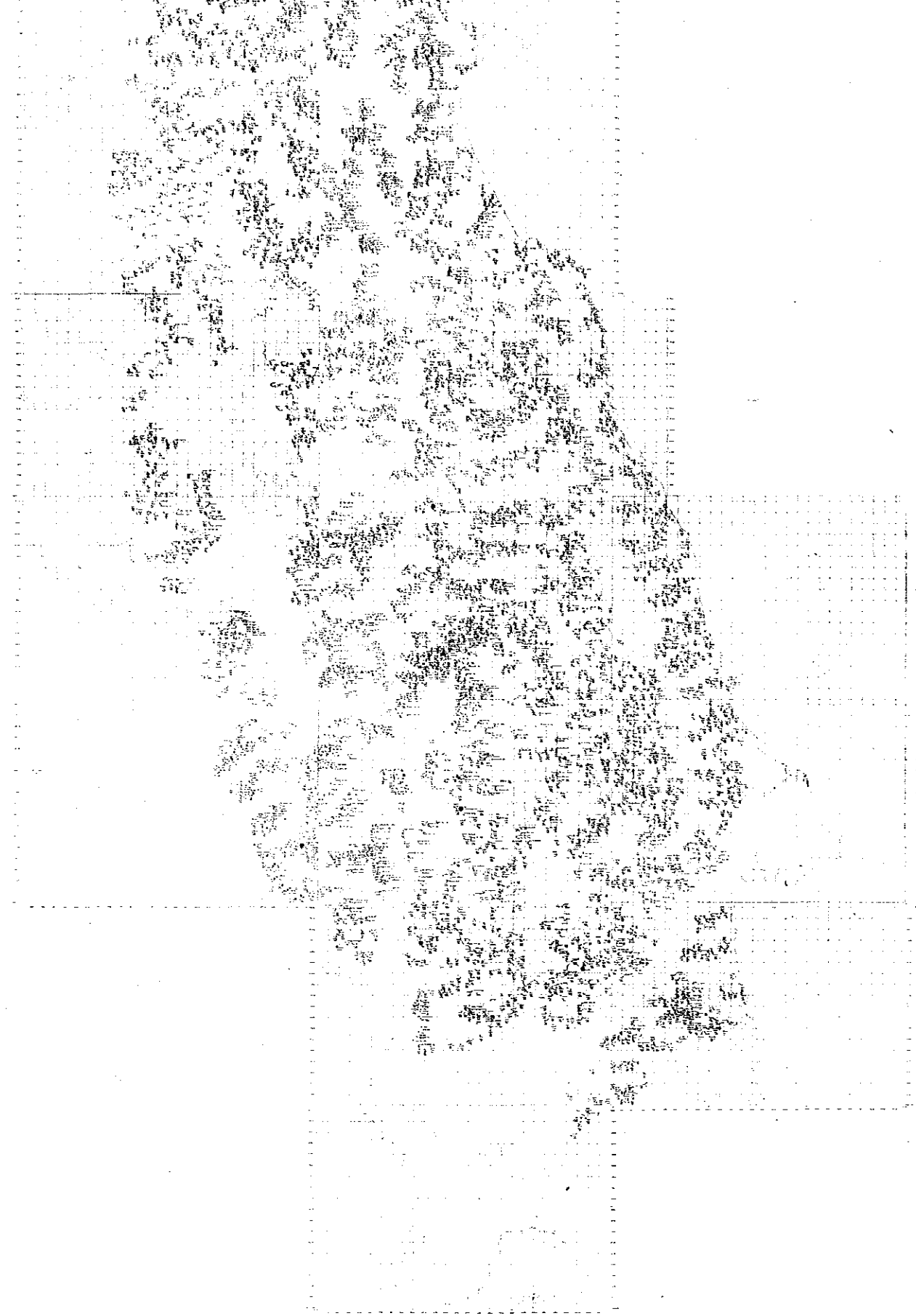
PL. 6 - 2

THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO
CONTRASTING GEOLOGIC ENVIRONMENTS
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I
DISTRIBUTION GEOCHEMICAL ANOMALIES
OF HEAVY MINERAL SAMPLES
SOUTHERN SIERRA MADRE-POLILLO AREA

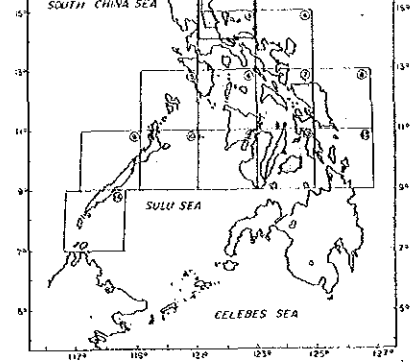
国際協力事業団
15161
国産資源庁資源課

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
SEPTEMBER 1985

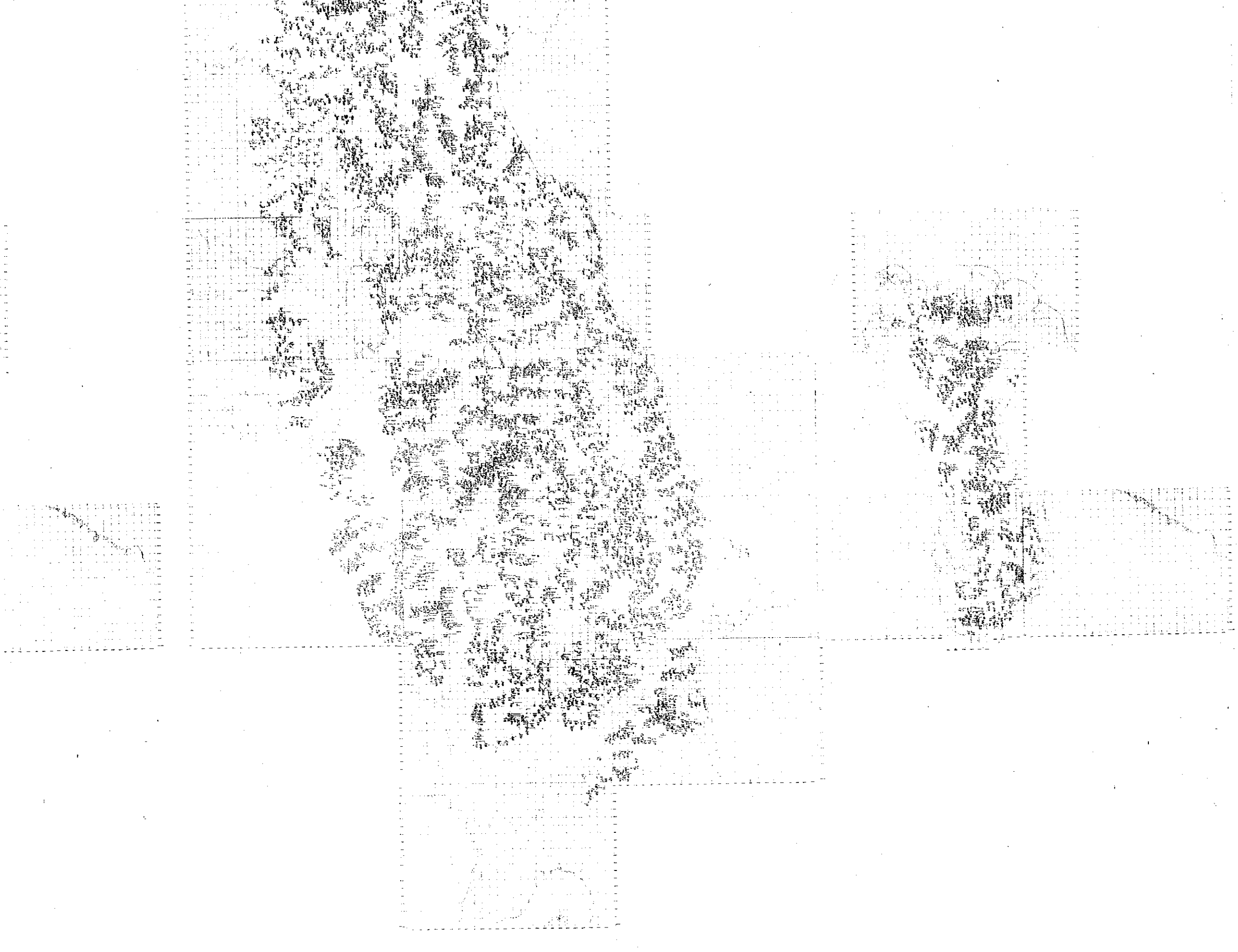
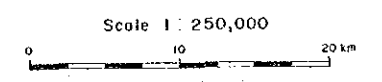
Scale 1 : 250,000







JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
SEPTEMBER 1985



Au (ppm)	
■	01.5 Au

Au

As (ppm)	
●	72 ≤ As < 110
▲	110 ≤ As < 167
■	167 ≤ As

As

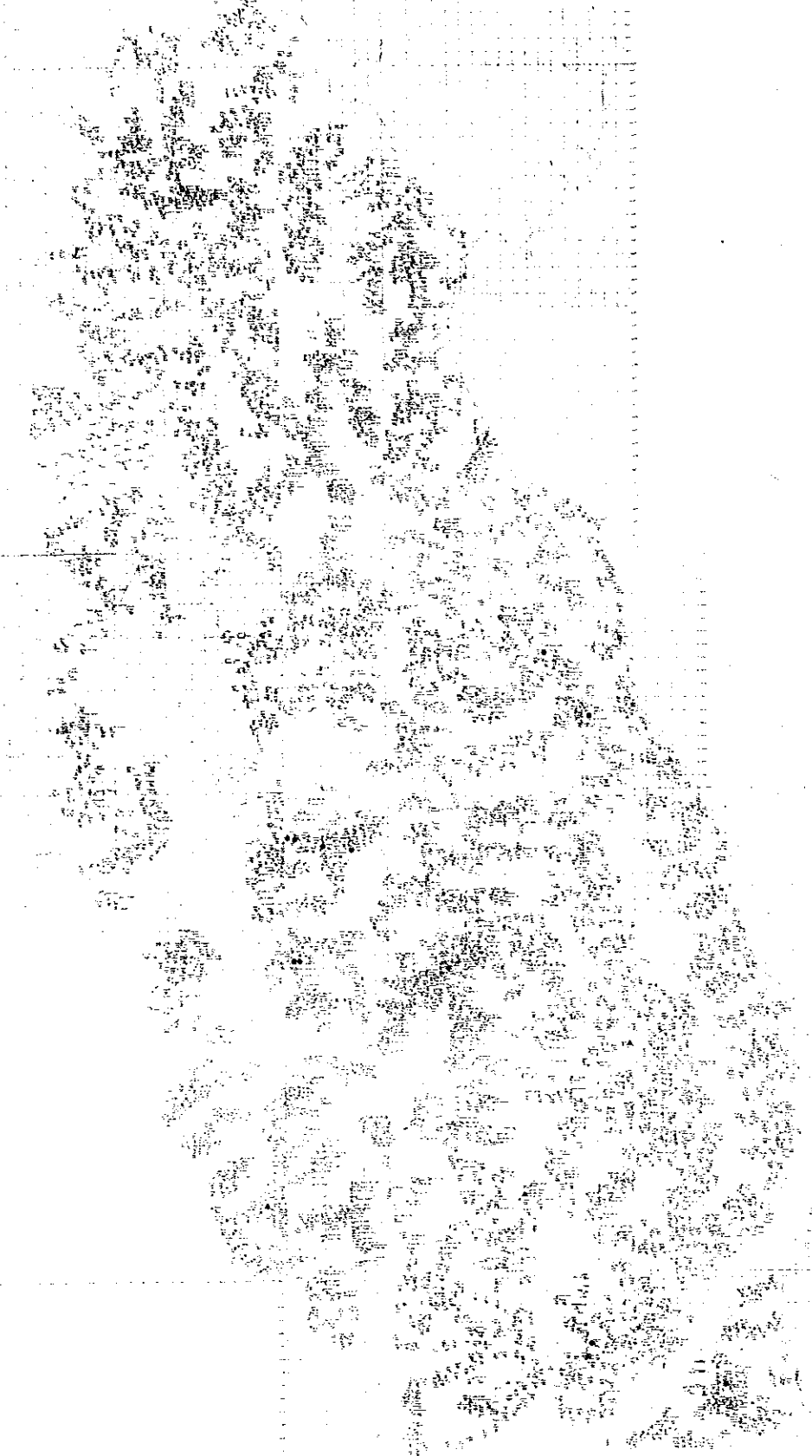
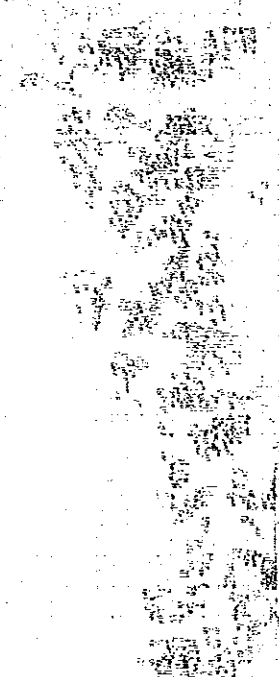
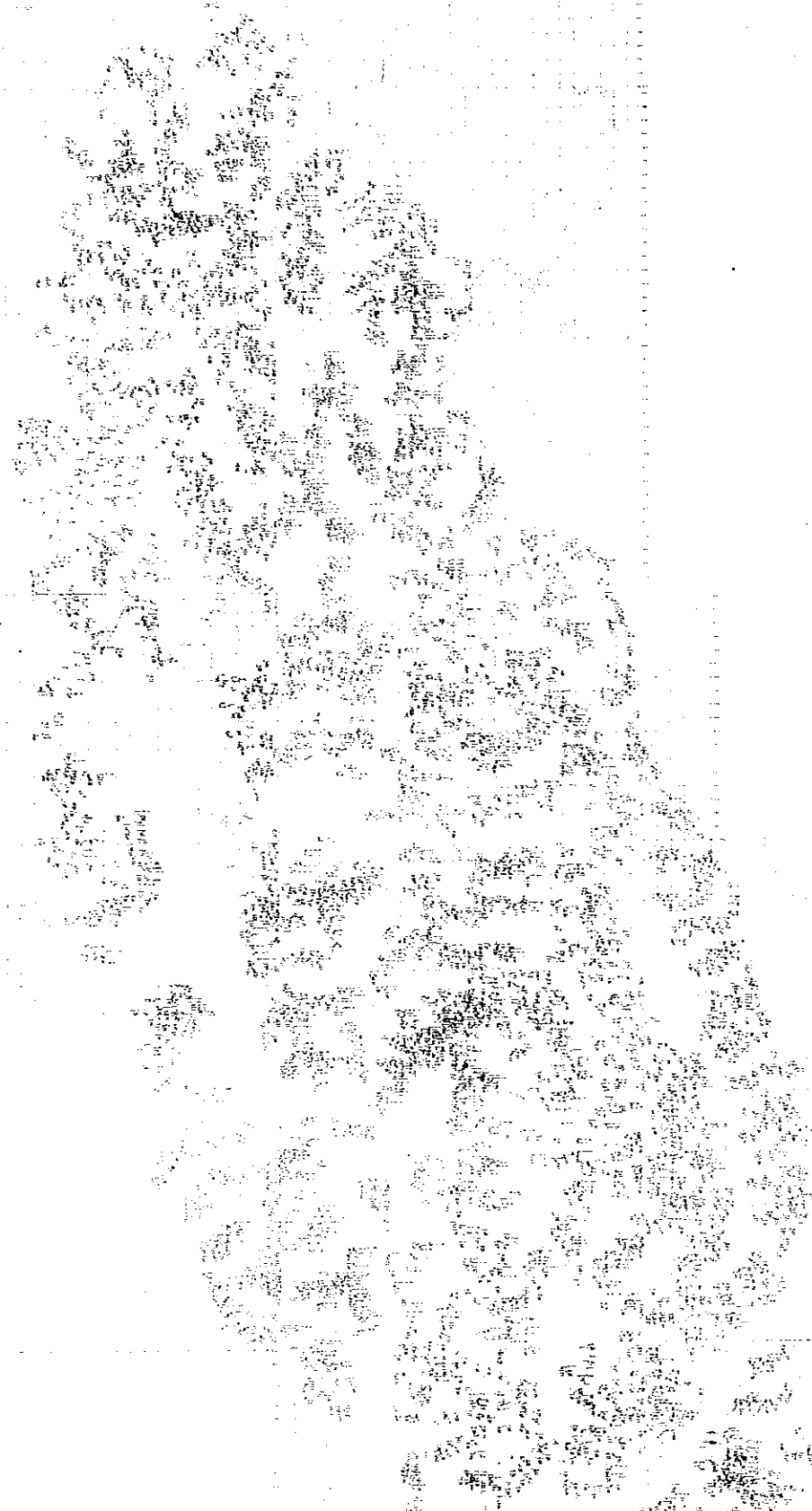


As (ppm)	
●	25 ≤ As < 110
▲	110 ≤ As < 167
■	167 ≤ As

As

Ga (ppm)	
●	31 ≤ Ga < 38
▲	38 ≤ Ga < 40
■	40 ≤ Ga

Ga



G (ppm)	
0	31 ≤ G < 38
A	39 ≤ G < 40
B	40 ≤ G

GA



PL. 6-3

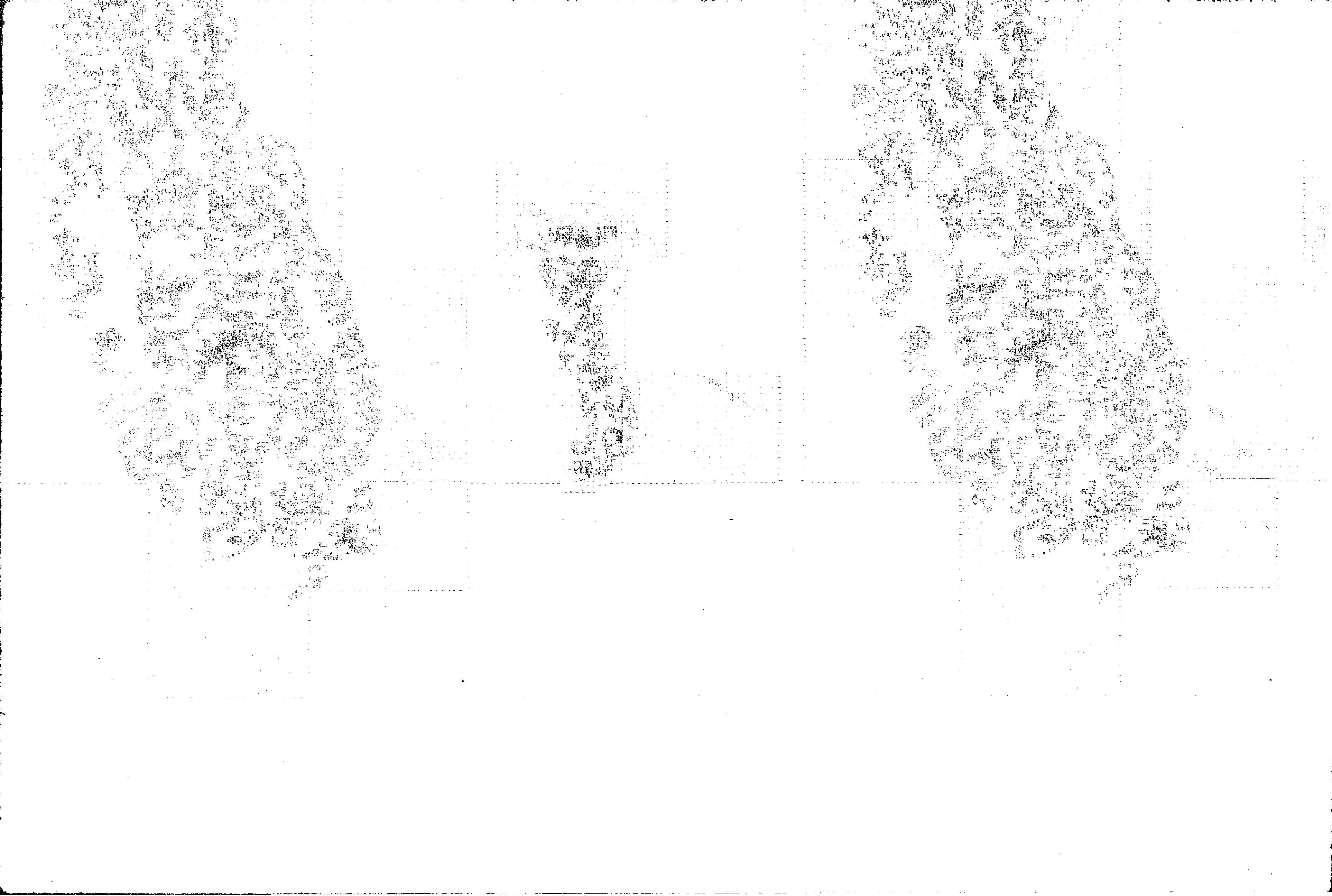
THE MINERAL EXPLORATION
 - MINERAL DEPOSITS AND TECTONICS OF TWO
 CONTRASTING GEOLOGIC ENVIRONMENTS
 IN
 THE REPUBLIC OF THE PHILIPPINES
 PHASE I
**DISTRIBUTION GEOCHEMICAL ANOMALIES
 OF HEAVY MINERAL SAMPLES
 SOUTHERN SIERRA MADRE - POLILLO AREA**

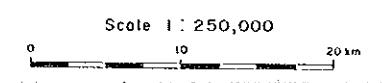
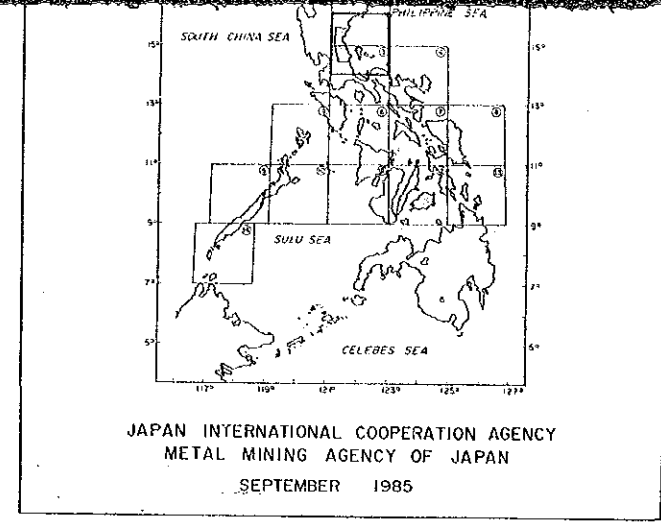
15161

JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 SEPTEMBER 1985

Scale 1 : 250,000

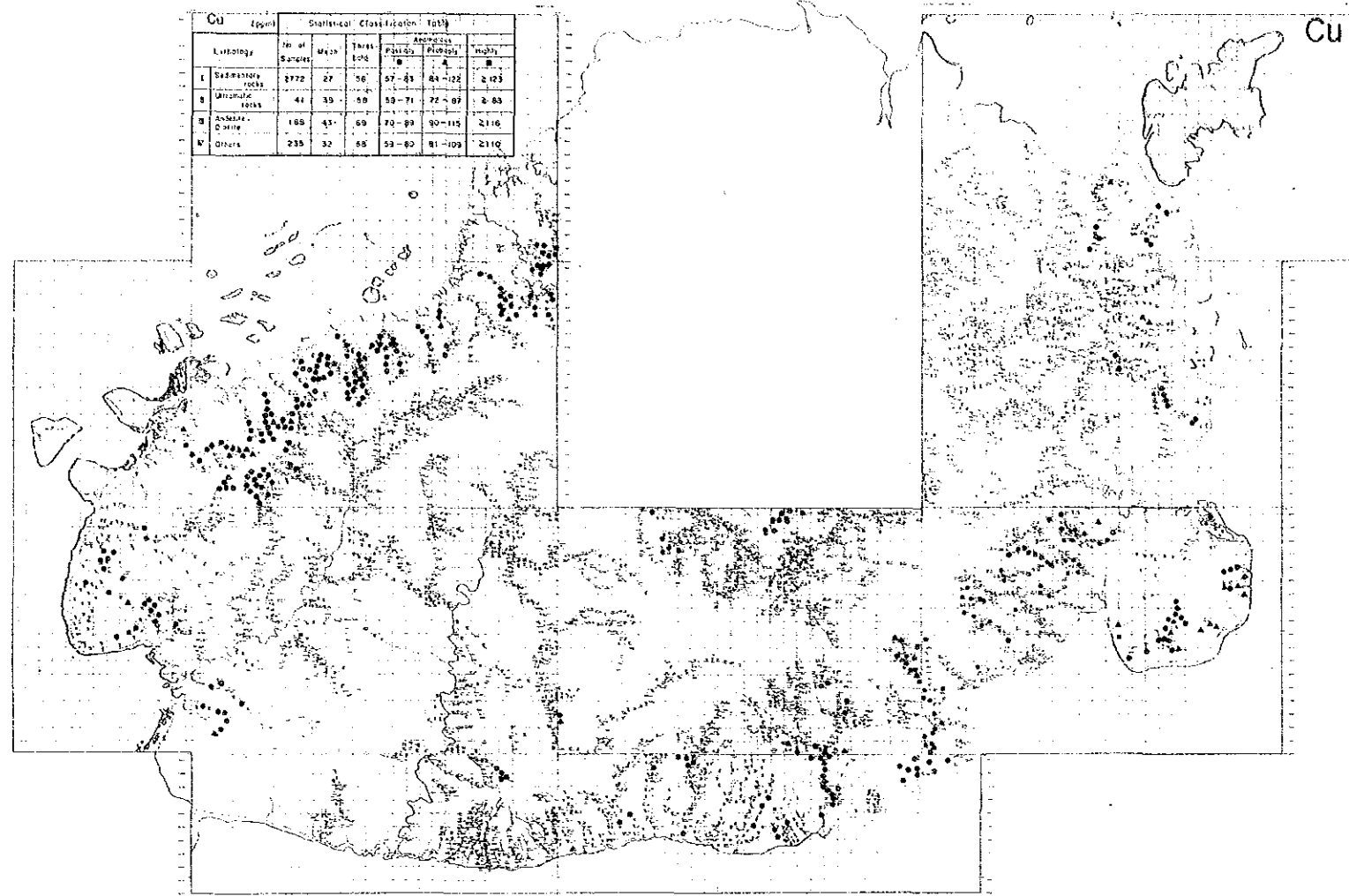






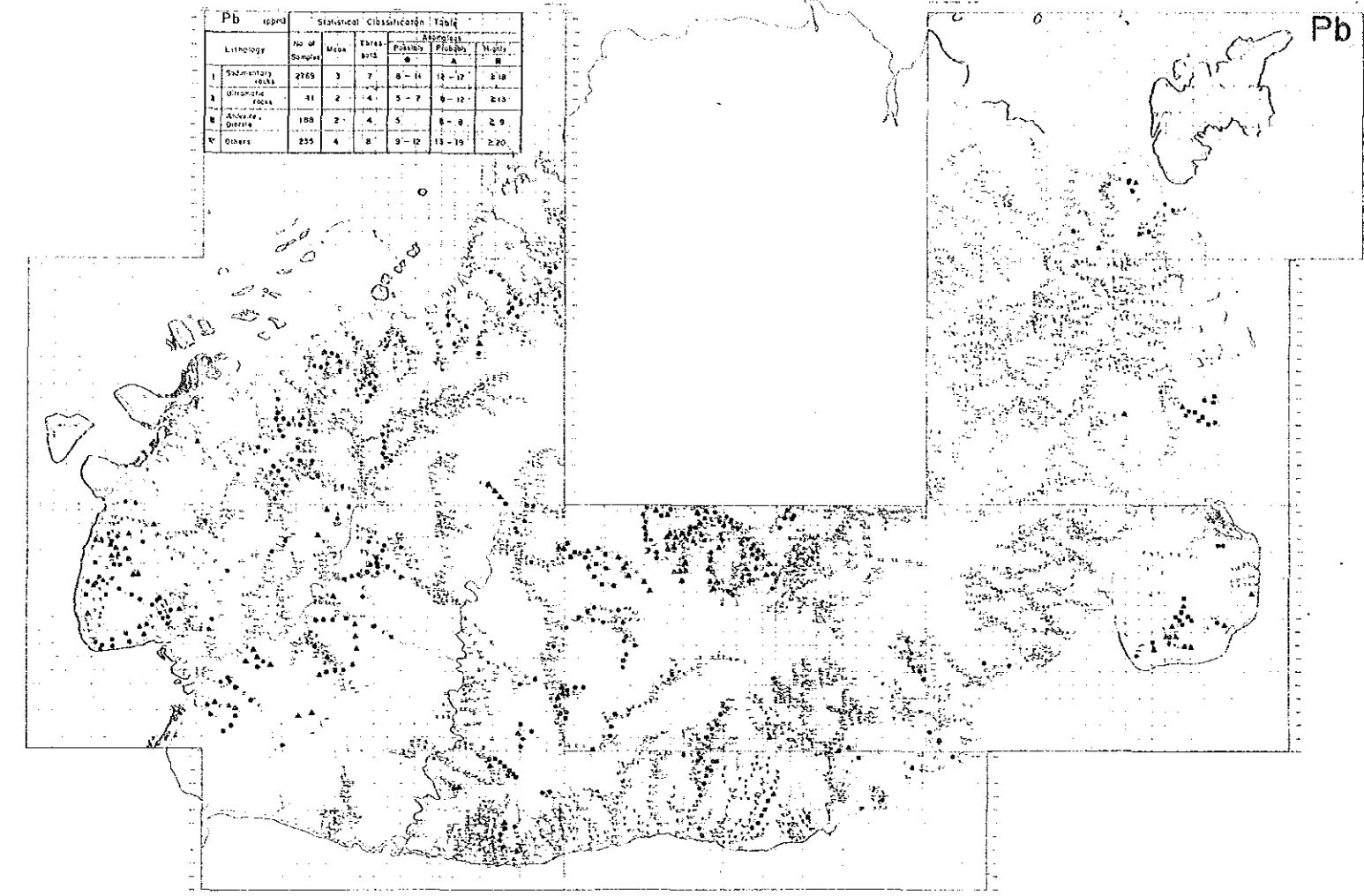
Cu (ppm) Statistical Classification Table

Lithology	No of Samples	Mean	Third quartile	Percentiles			Highly
				75	50	25	
I Sedimentary rocks	2722	27	56	57-63	64-102	103	2.123
II Ultramafic rocks	41	35	50	53-71	72-89	90	2.83
III Andesite-Diorite	185	45	60	70-89	90-115	116	2.116
IV Others	235	32	58	58-82	83-109	110	2.110



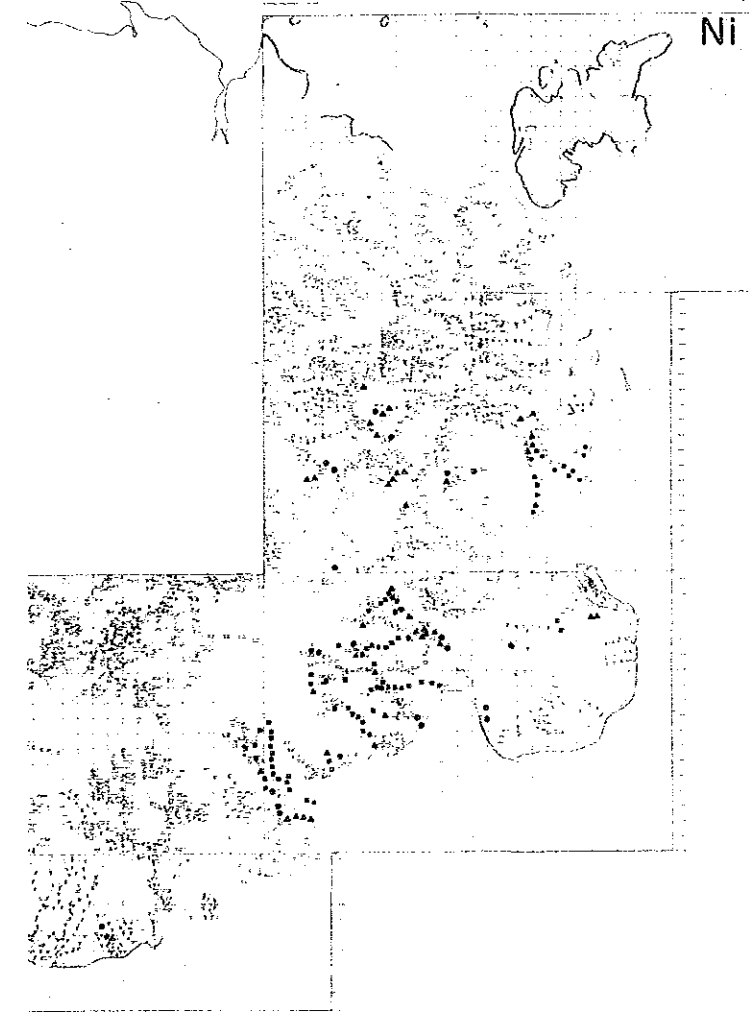
Pb (ppm) Statistical Classification Table

Lithology	No of Samples	Mean	Third quartile	Percentiles			Highly
				75	50	25	
I Sedimentary rocks	2765	3	7	6-11	12-17	18	2.18
II Ultramafic rocks	41	2	4	3-7	8-12	13	2.13
III Andesite-Diorite	188	2	4	3-5	6-8	9	2.9
IV Others	255	4	8	7-12	13-19	20	2.20



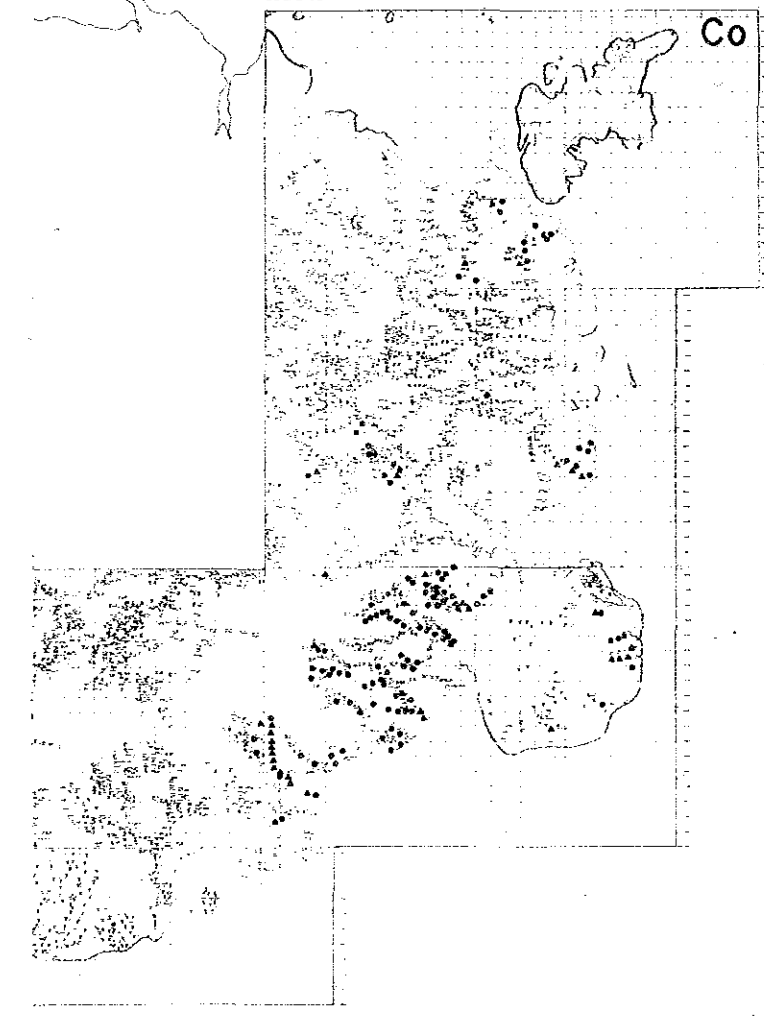
Ni (ppm) Statistical Classification Table

Lithology	No of Samples	Mean	Third quartile	Percentiles			Highly
				75	50	25	
I Sedimentary rocks	1397	28	79	80-134	135-228	229	2.229
II Ultramafic rocks	41	207	1031	1032-2002	2003-3102	3103	2.3103
III Andesite-Diorite	182	9	24	25-41	42-67	68	2.68
IV Others	125	24	65	66-100	101-124	125	2.125

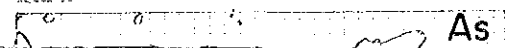


Co (ppm) Statistical Classification Table

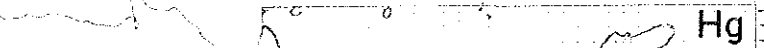
Lithology	No of Samples	Mean	Third quartile	Percentiles			Highly
				75	50	25	
I Sedimentary rocks	1397	17	35	36-51	52-76	77	2.77
II Ultramafic rocks	41	34	51	52-64	65-79	80	2.80
III Andesite-Diorite	182	20	32	33-40	41-51	52	2.52
IV Others	125	13	30	31-45	46-63	64	2.70



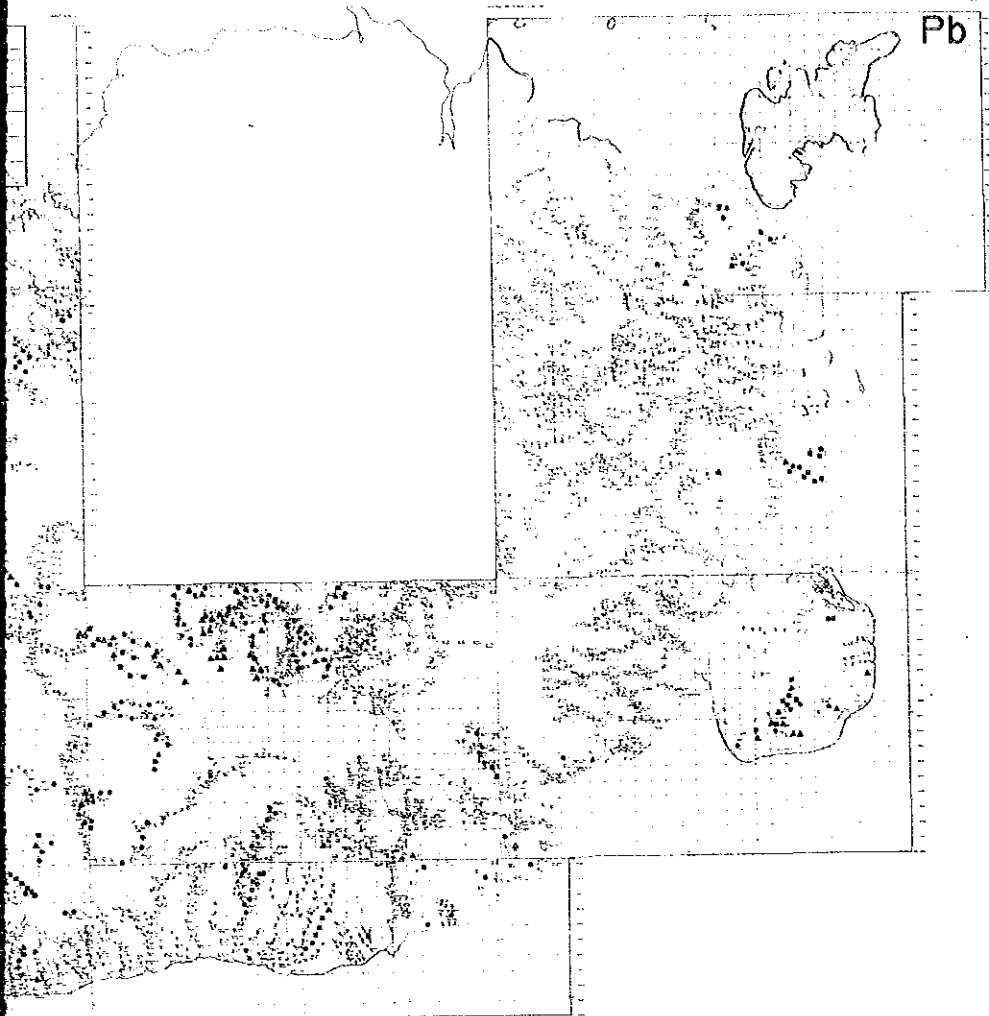
As (ppm) Statistical Classification Table



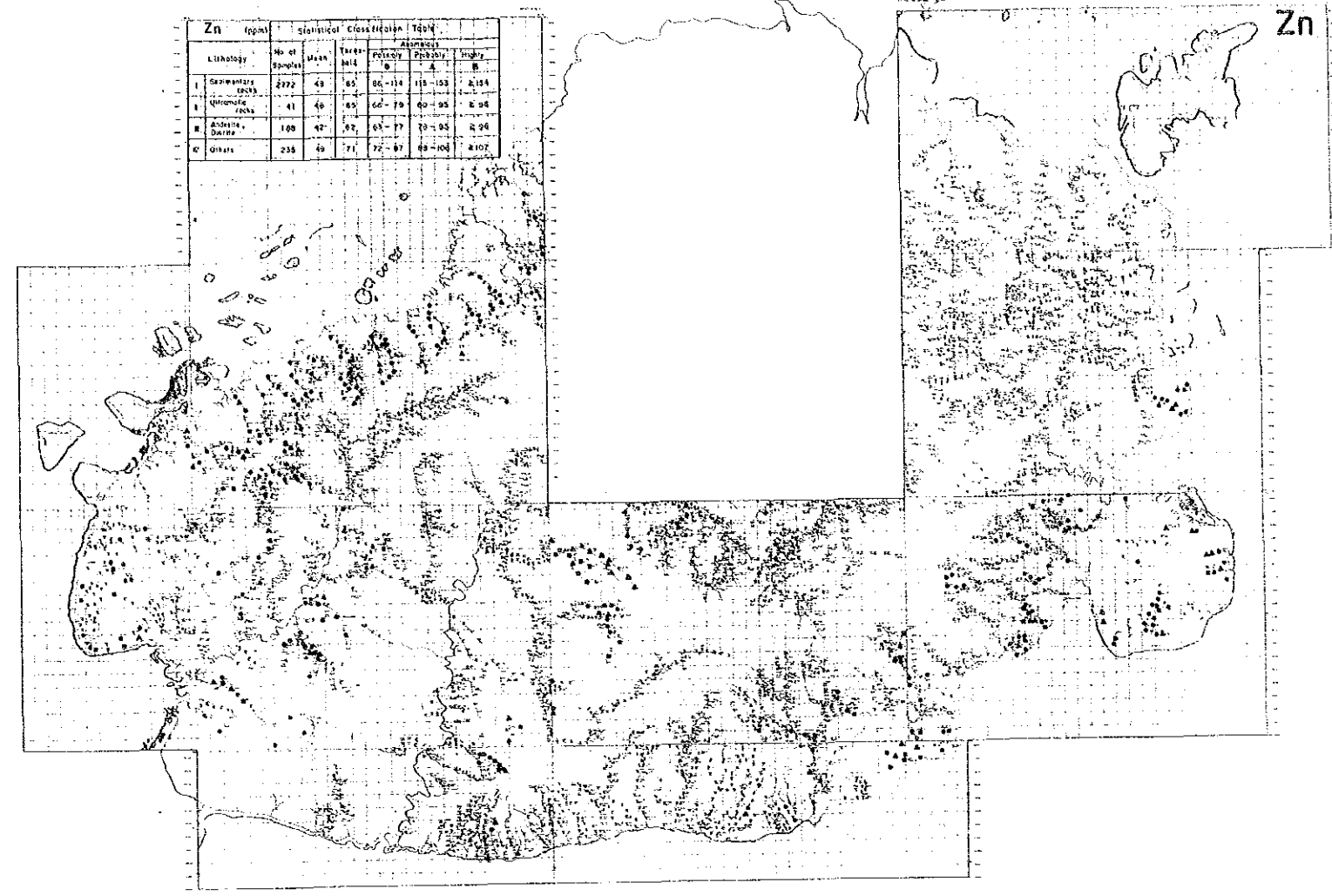
Hg (ppm) Statistical Classification Table



0.75
1.00
1.25
1.50
1.75

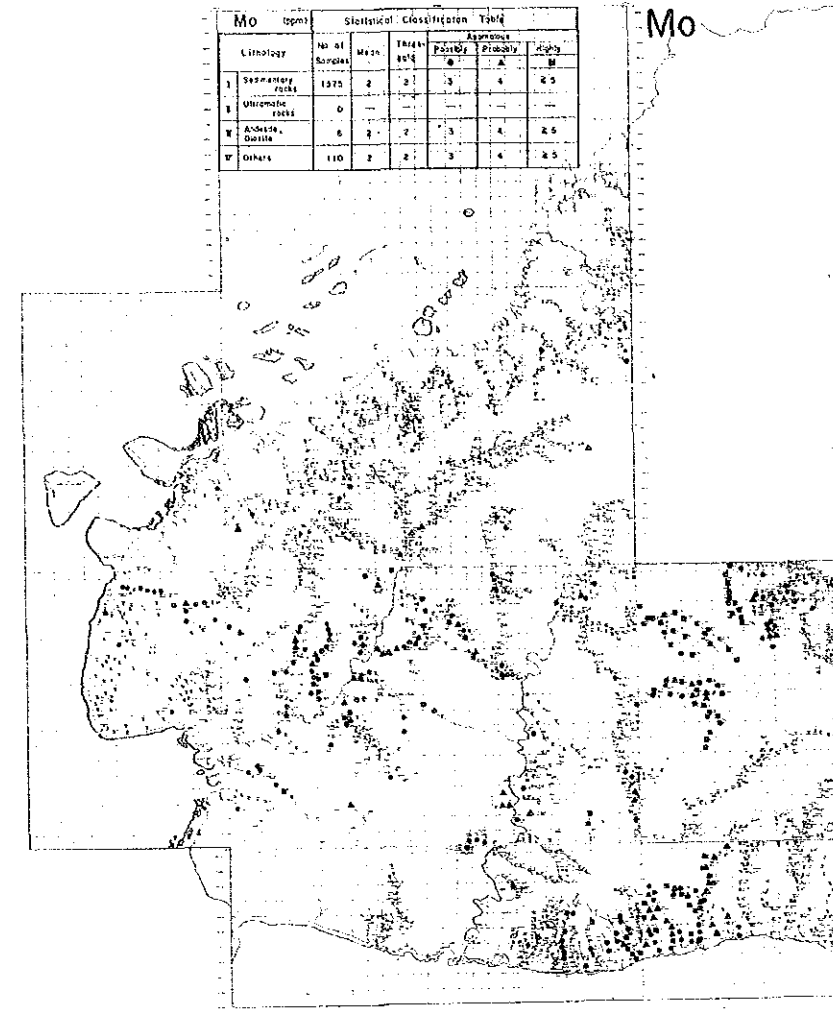


Pb



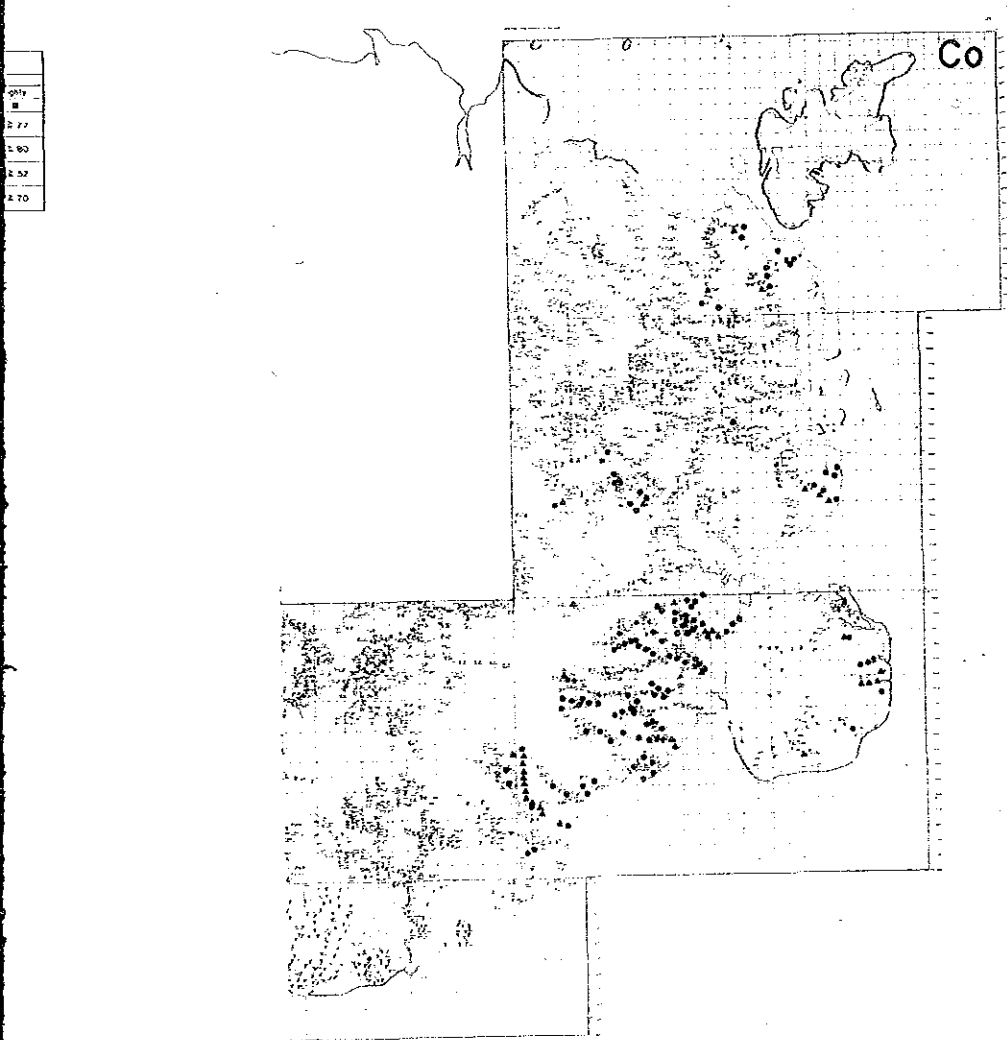
Zn

Lithology	No. of Samples	Mean	Statistical Classification Table			
			Max	Min	Q1	Q3
I Sedimentary rocks	2772	43	62	35	115	154
E Ultramafic rocks	41	49	35	60	95	98
K Andesite Dikes	100	42	32	65	77	92
M Others	235	49	71	77	87	102

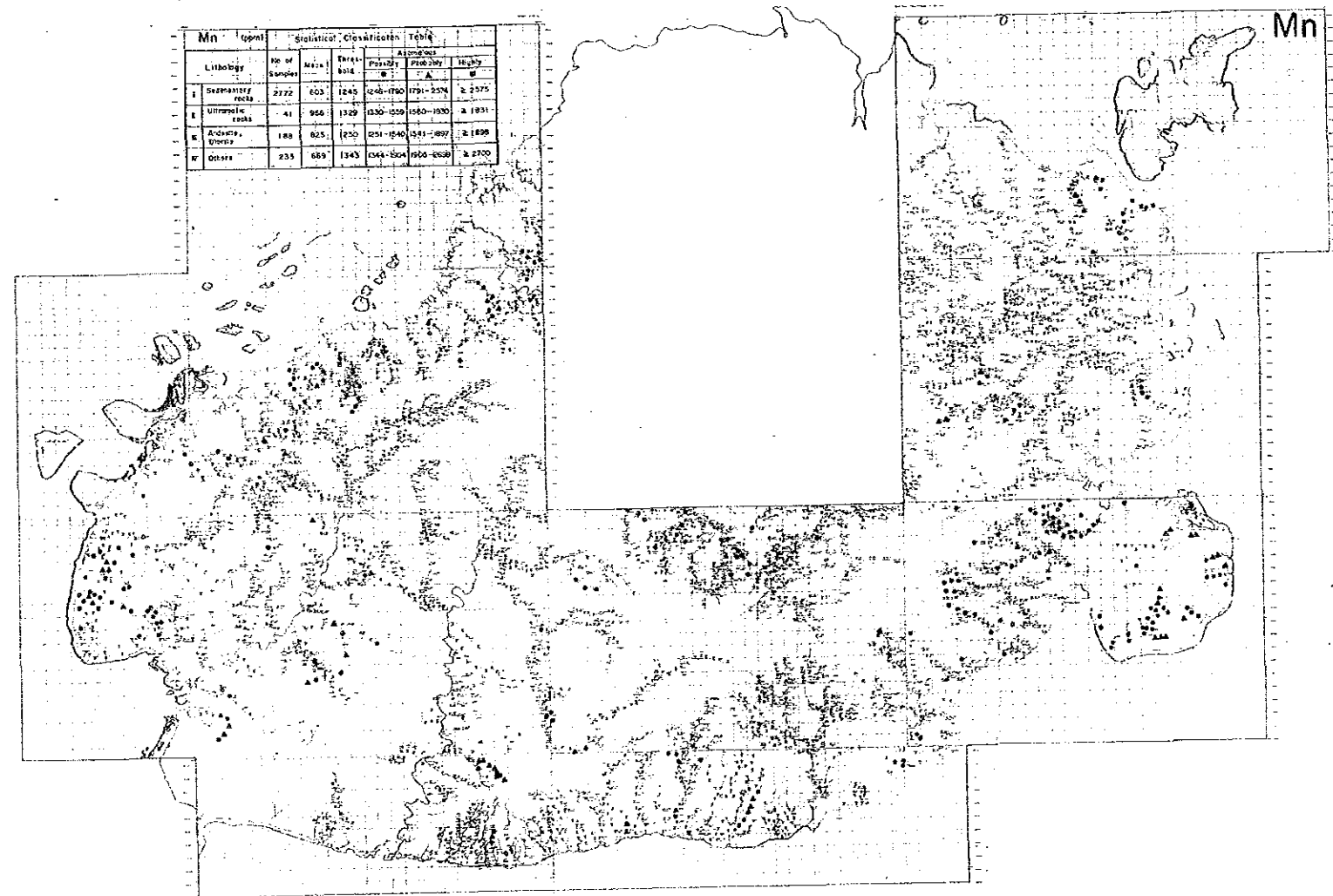


Mo

Lithology	No. of Samples	Mean	Statistical Classification Table			
			Max	Min	Q1	Q3
I Sedimentary rocks	1375	2	2	3	4	5
E Ultramafic rocks	0	---	---	---	---	---
K Andesite Dikes	6	2	2	3	4	5
M Others	110	2	2	3	4	5



Co



Mn

Lithology	No. of Samples	Mean	Statistical Classification Table			
			Max	Min	Q1	Q3
I Sedimentary rocks	2772	403	1245	140	1700	2375
E Ultramafic rocks	41	950	1929	250	1500	1931
K Andesite Dikes	100	825	1750	251	1540	1897
M Others	235	659	1343	154	1504	2100

Lithology	No. of Samples	Mean	Statistical Classification Table			
			Max	Min	Q1	Q3
I Sedimentary rocks	2774	0.1	0.1	0.2	0.3	0.4
E Ultramafic rocks	41	0.1	0.1	0.2	0.3	0.4
K Andesite Dikes	100	0.1	0.1	0.2	0.3	0.4
M Others	235	0.2	0.2	0.3	0.4	0.5



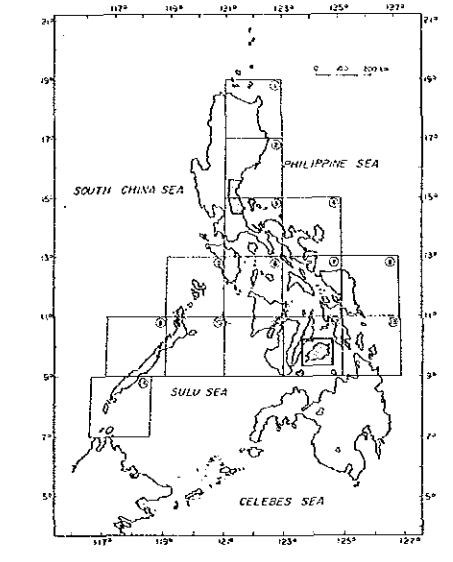
Ba

Lithology	No. of Samples	Mean	Statistical Classification Table			
			Max	Min	Q1	Q3
I Sedimentary rocks	2772	100	150	50	200	300
E Ultramafic rocks	41	150	200	100	250	350
K Andesite Dikes	100	120	180	80	220	300
M Others	235	110	160	60	210	280

Ba

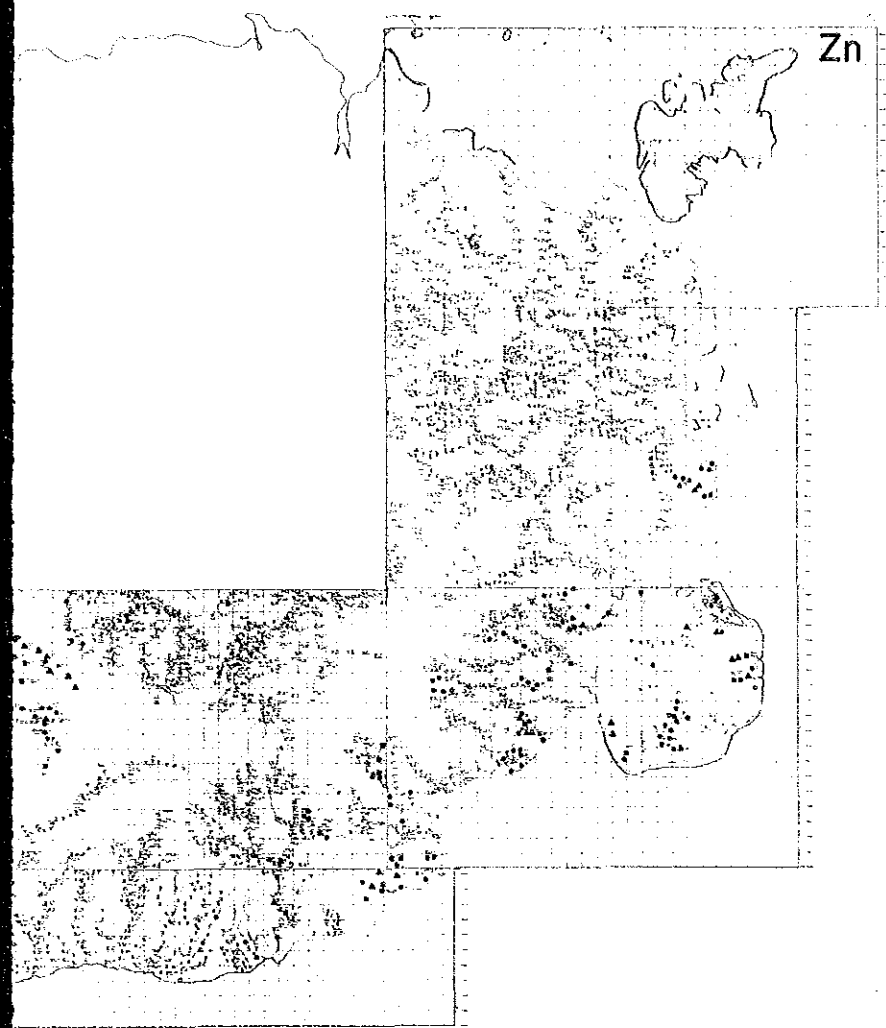
JMI - Element Score	
0	Score of 2-4
1	Score of 5-7

THE MINERAL EXPLORATION
 - MINERAL DEPOSITS AND TECTONICS OF TWO
 CONTRASTING GEOLOGIC ENVIRONMENTS -
 IN
 THE REPUBLIC OF THE PHILIPPINES
 PHASE I
**DISTRIBUTION GEOCHEMICAL ANOMALIES
 OF STREAM SEDIMENT SAMPLES
 BOHOL - SQUIJOR AREA**

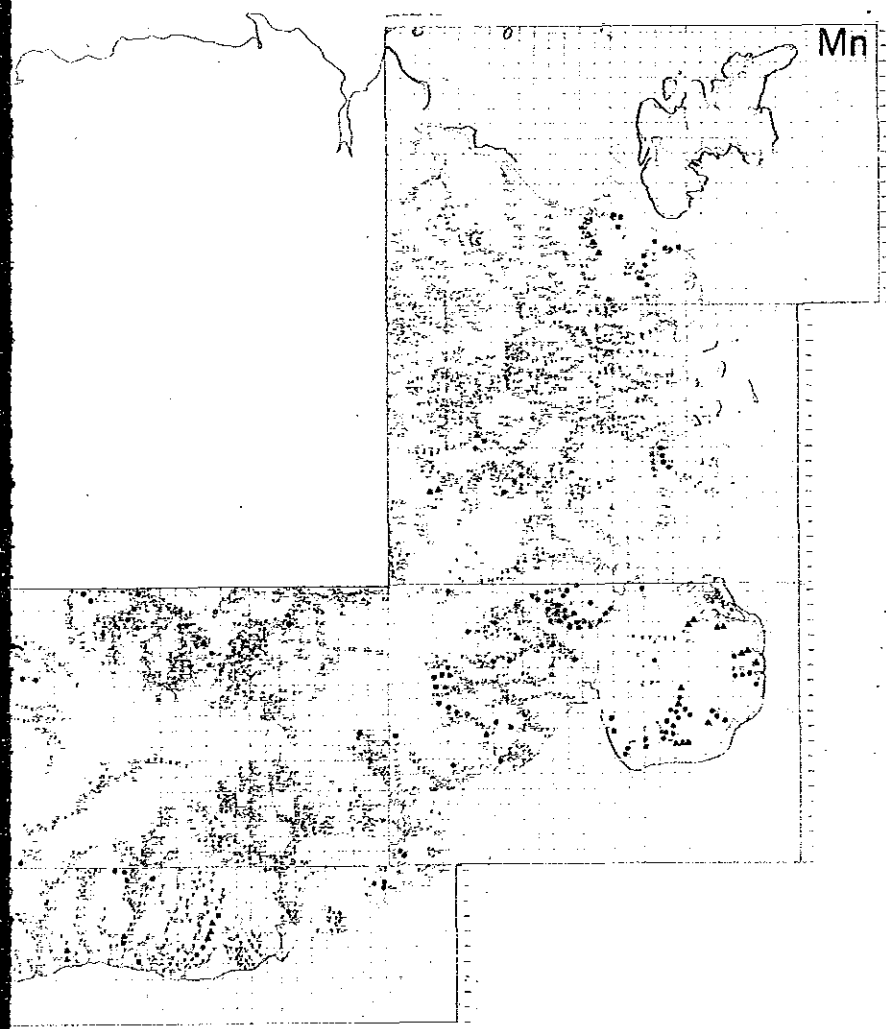
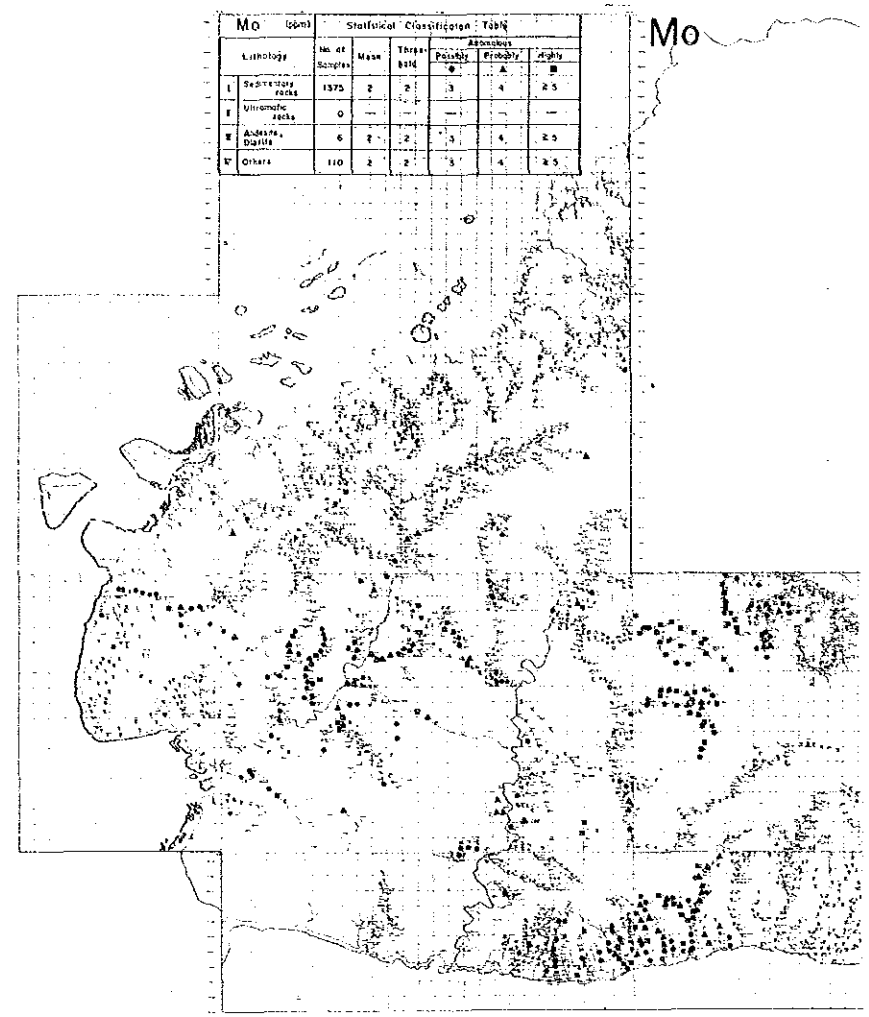


JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 SEPTEMBER 1985

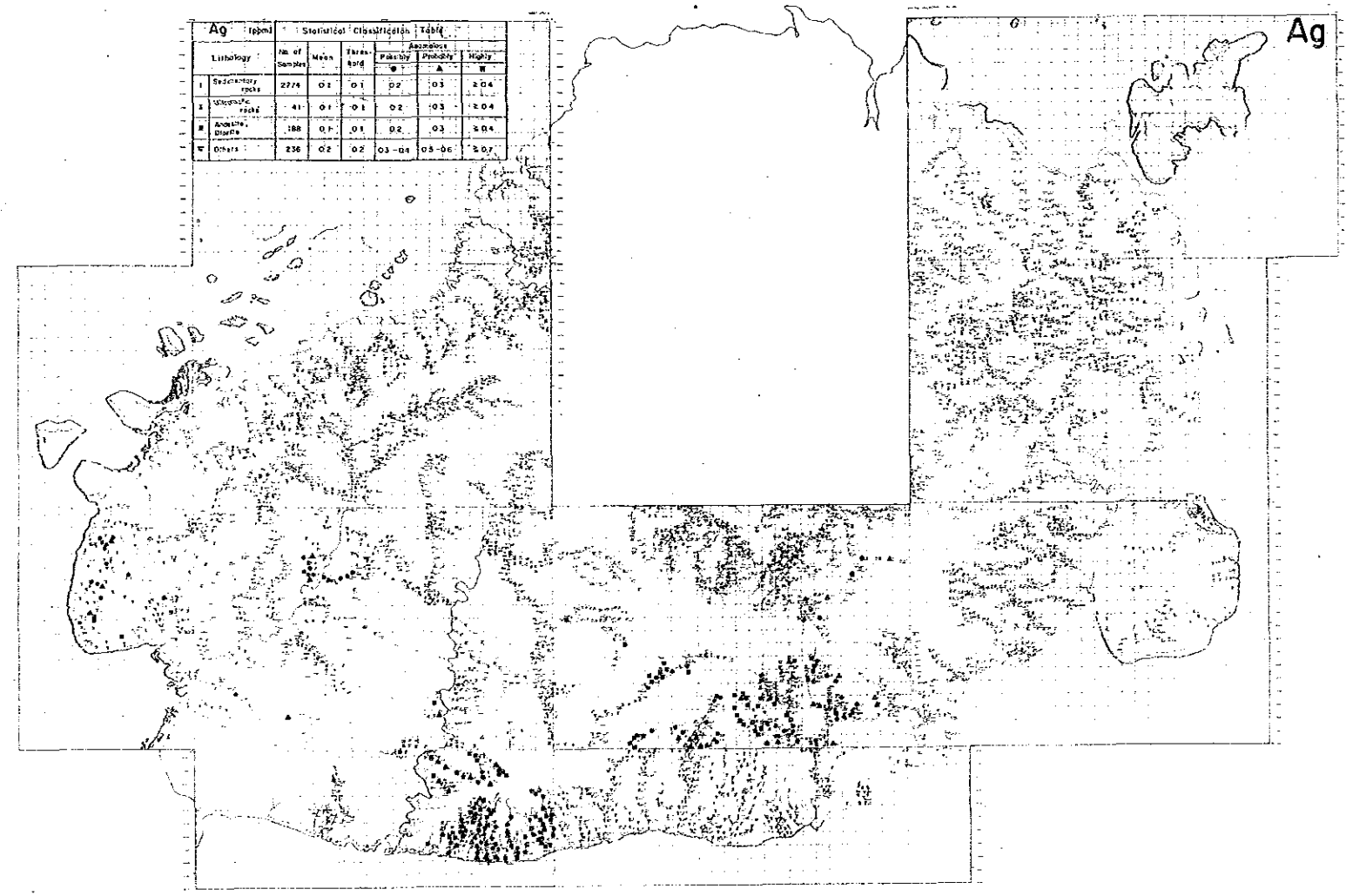
Scale 1 : 250,000
 0 10 20 km



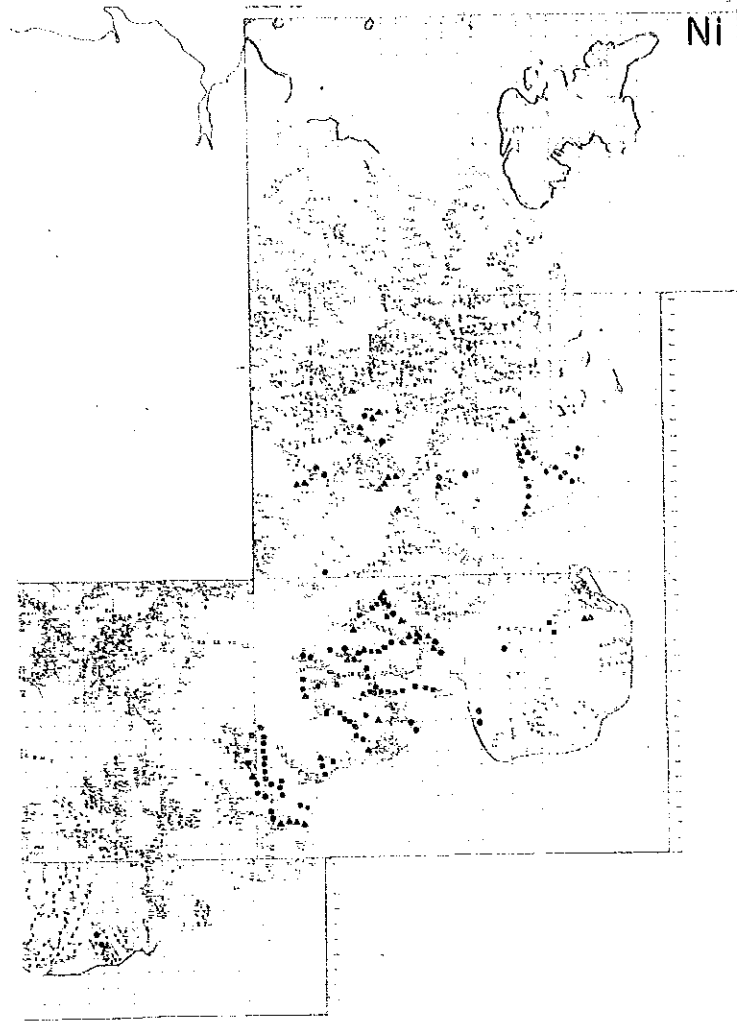
Lithology	No. of Samples	Mean	Thresh. Stat.	Anomalies		
				Probable	Probably	Highly
I Sedimentary rocks	1375	2	2	3	4	2.5
II Metamorphic rocks	0	---	---	---	---	---
III Andesite Dike	6	2	2	3	4	2.5
IV Others	110	2	2	3	4	2.5



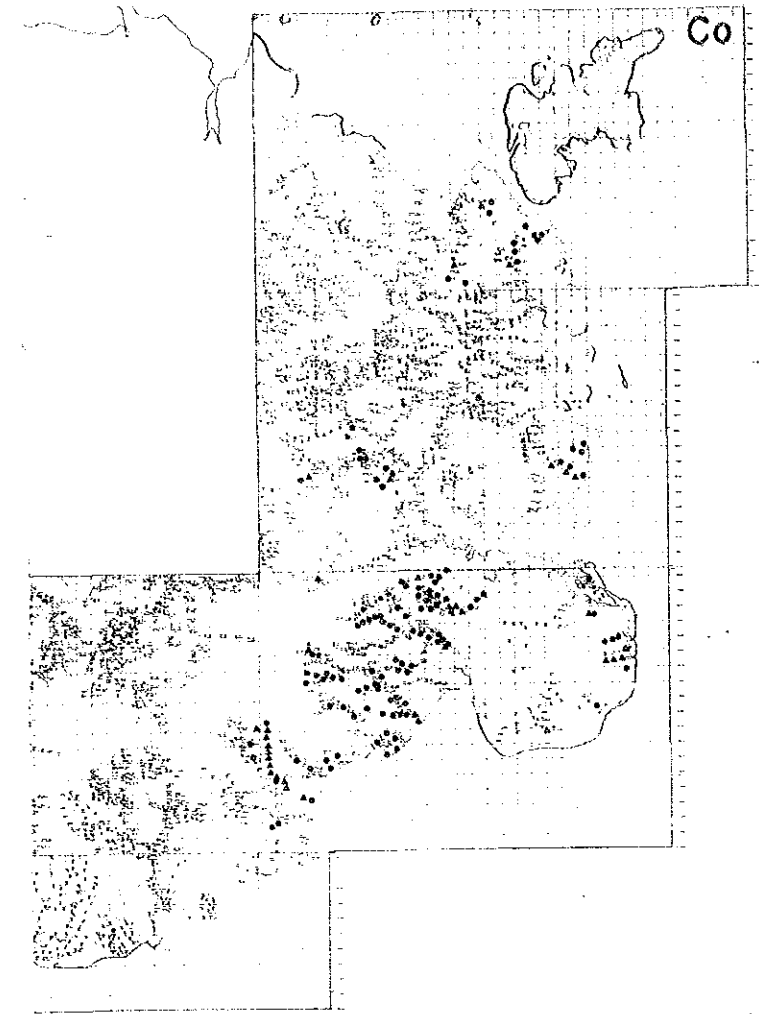
Lithology	No. of Samples	Mean	Thresh. Stat.	Anomalies		
				Probable	Probably	Highly
I Sedimentary rocks	2274	0.4	0.1	0.2	0.3	2.04
II Metamorphic rocks	41	0.4	0.1	0.2	0.3	2.04
III Andesite Dike	180	0.7	0.1	0.2	0.3	2.04
IV Others	250	0.2	0.2	0.3-0.4	0.5-0.6	2.07



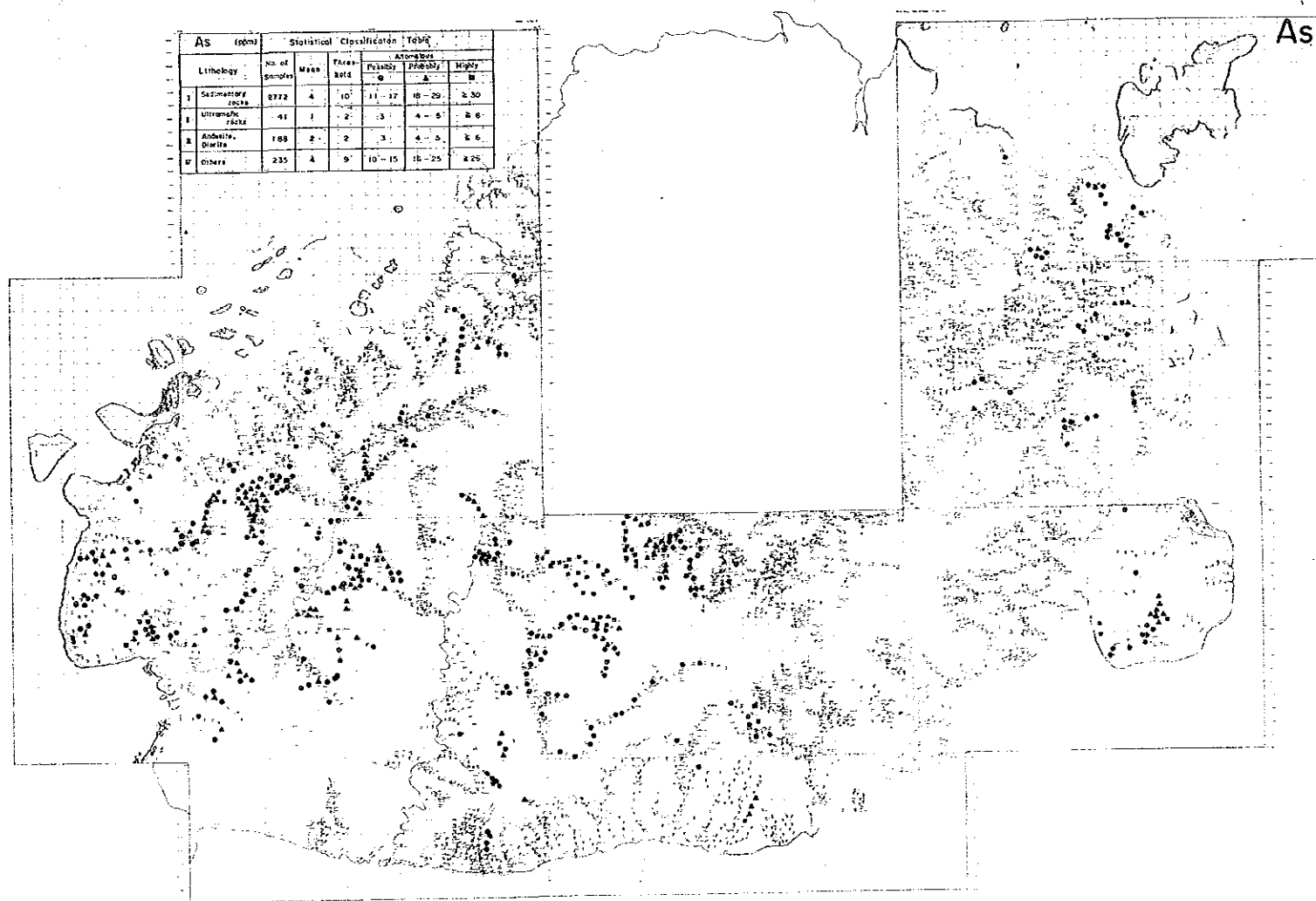
Lithology	No of Samples	Mean	Statistical Classification Table			
			Three- Sigma A	Probably B	Probably C	Highly D
I Sedimentary rocks	1397	29	79	80-134	135-208	212
II Ultramafic rocks	41	207	1031	252-200	200-352	2513
III Andesite Dike	182	9	24	25-41	42-67	68-63
IV Others	125	24	65	66-110	111-191	2193



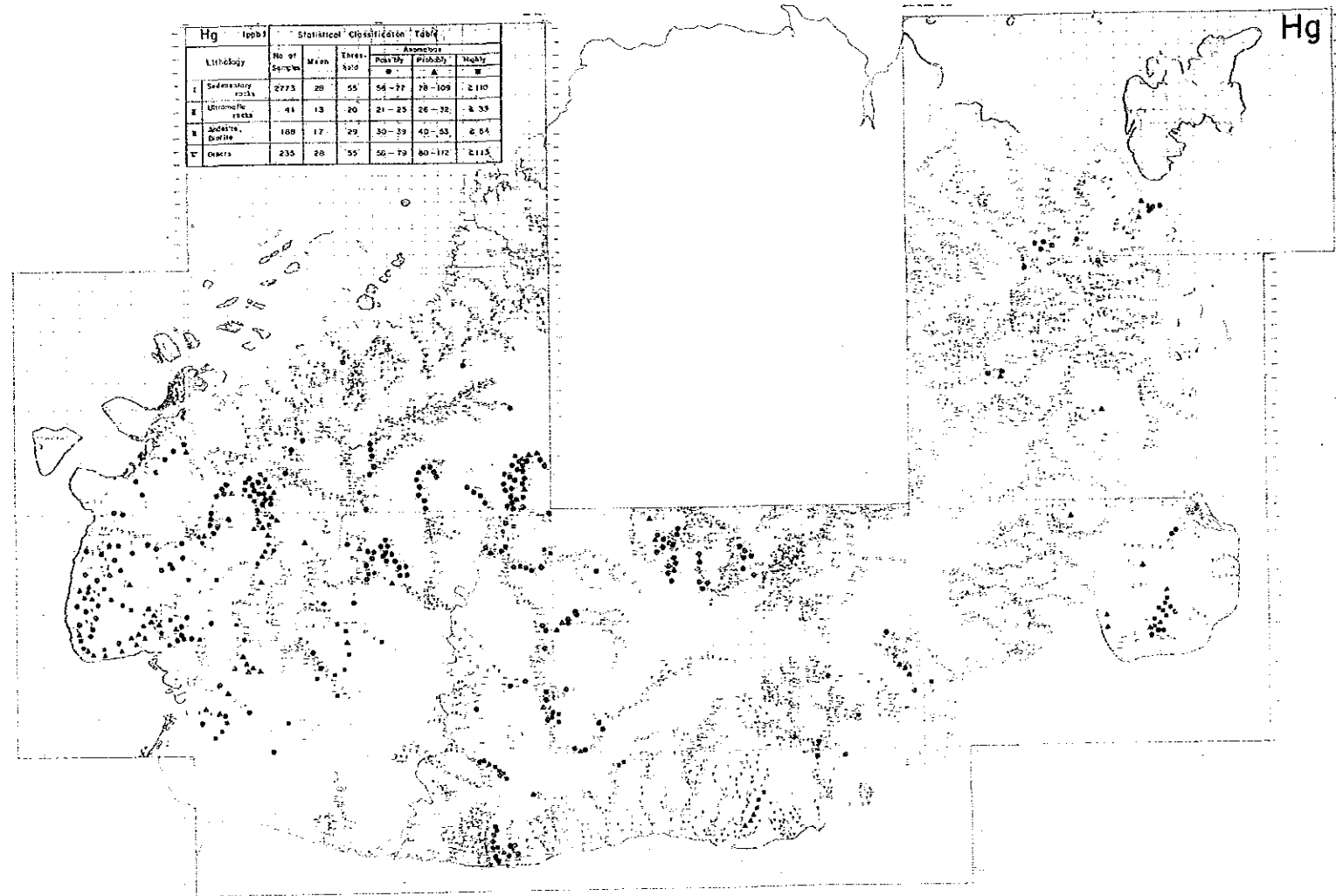
Lithology	No of Samples	Mean	Statistical Classification Table			
			Three- Sigma A	Probably B	Probably C	Highly D
I Sedimentary rocks	1397	17	35	36-51	52-76	77
II Ultramafic rocks	41	34	51	57-64	65-79	80
III Andesite Dike	182	20	32	33-40	41-51	52
IV Others	125	13	30	31-45	46-69	70



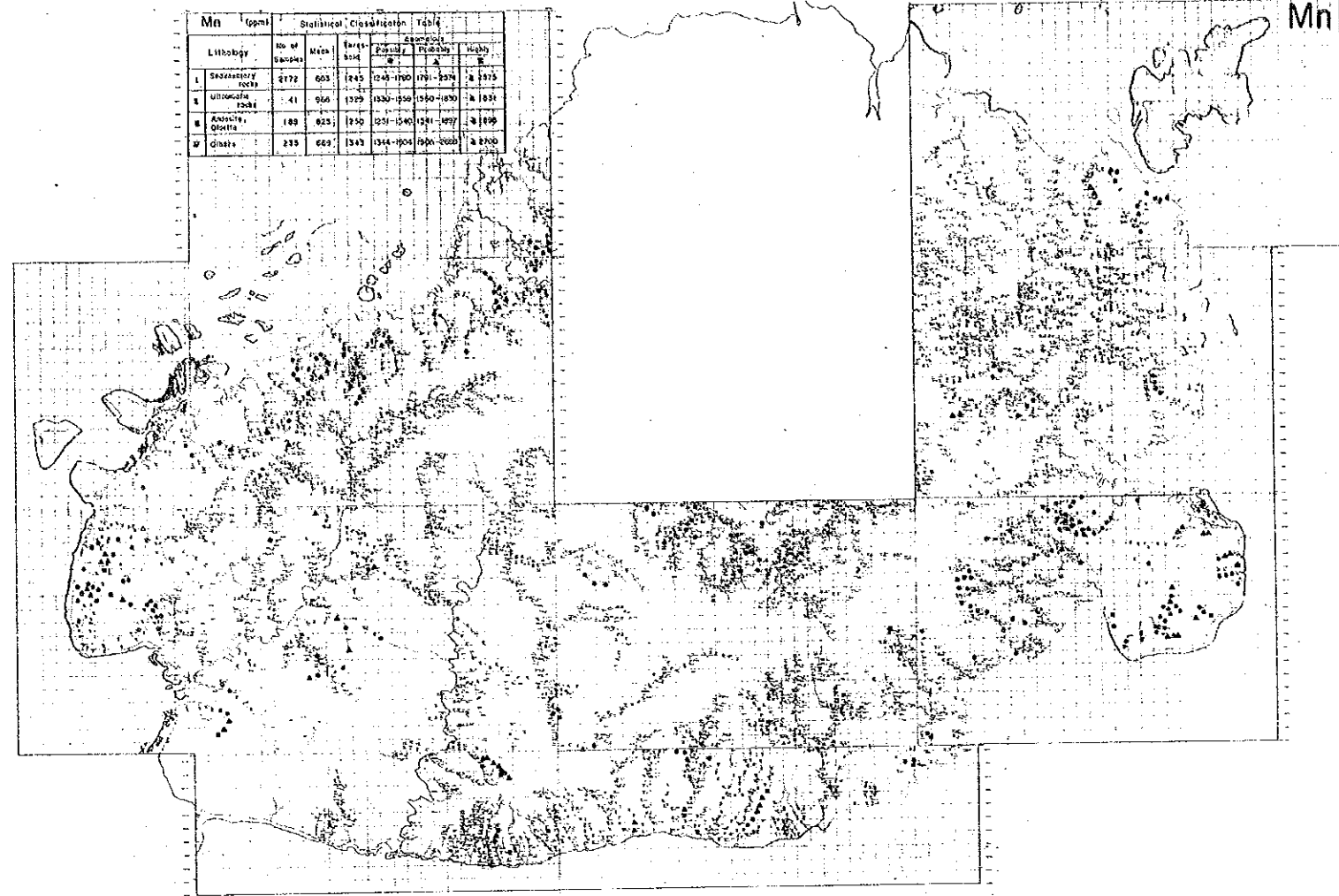
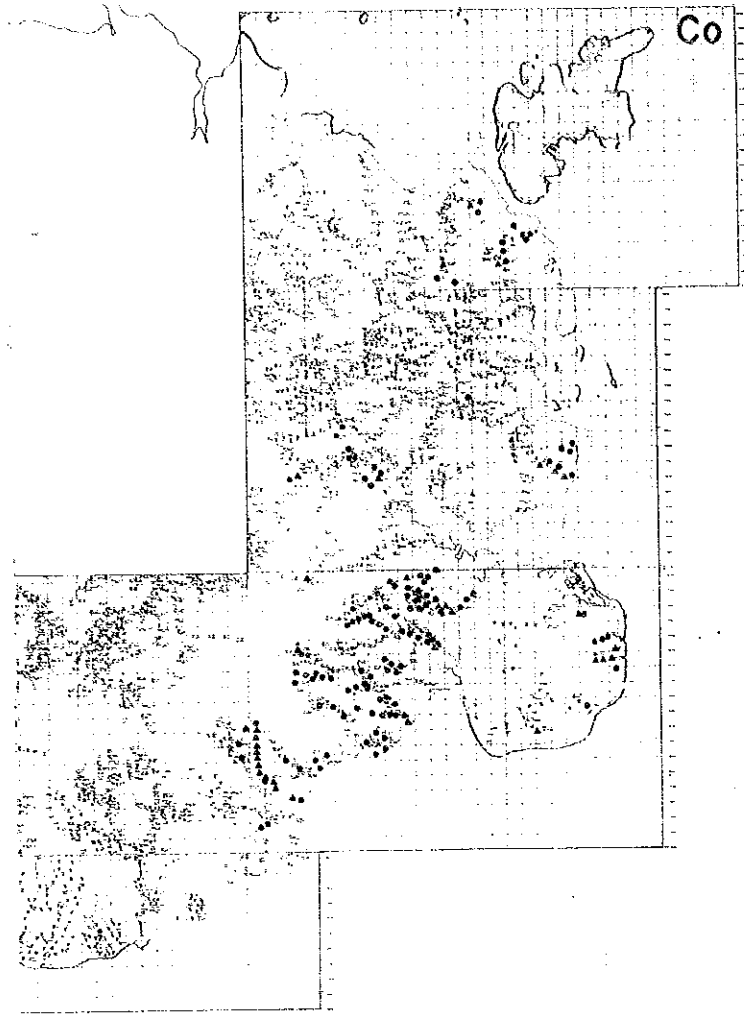
Lithology	No of Samples	Mean	Statistical Classification Table			
			Three- Sigma A	Probably B	Probably C	Highly D
I Sedimentary rocks	1397	4	10	11-17	18-20	21-30
II Ultramafic rocks	41	1	2	3	4-5	6
III Andesite Dike	182	2	2	3	4-5	6
IV Others	235	4	9	10-15	16-25	26



Lithology	No of Samples	Mean	Statistical Classification Table			
			Three- Sigma A	Probably B	Probably C	Highly D
I Sedimentary rocks	2773	20	55	56-77	78-109	110
II Ultramafic rocks	41	13	20	21-25	26-32	33
III Andesite Dike	100	17	29	30-39	40-55	56
IV Others	235	28	55	56-79	80-112	113

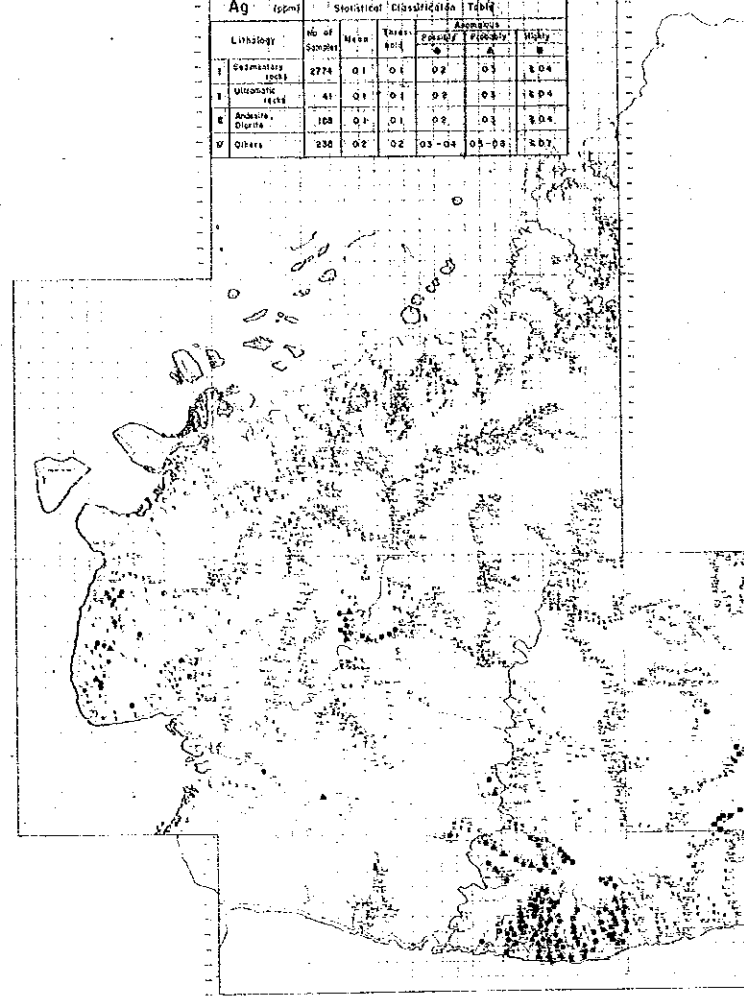


Mean	Stdev	High
7.76	2.97	
7.79	2.80	
7.51	2.82	
6.69	2.70	

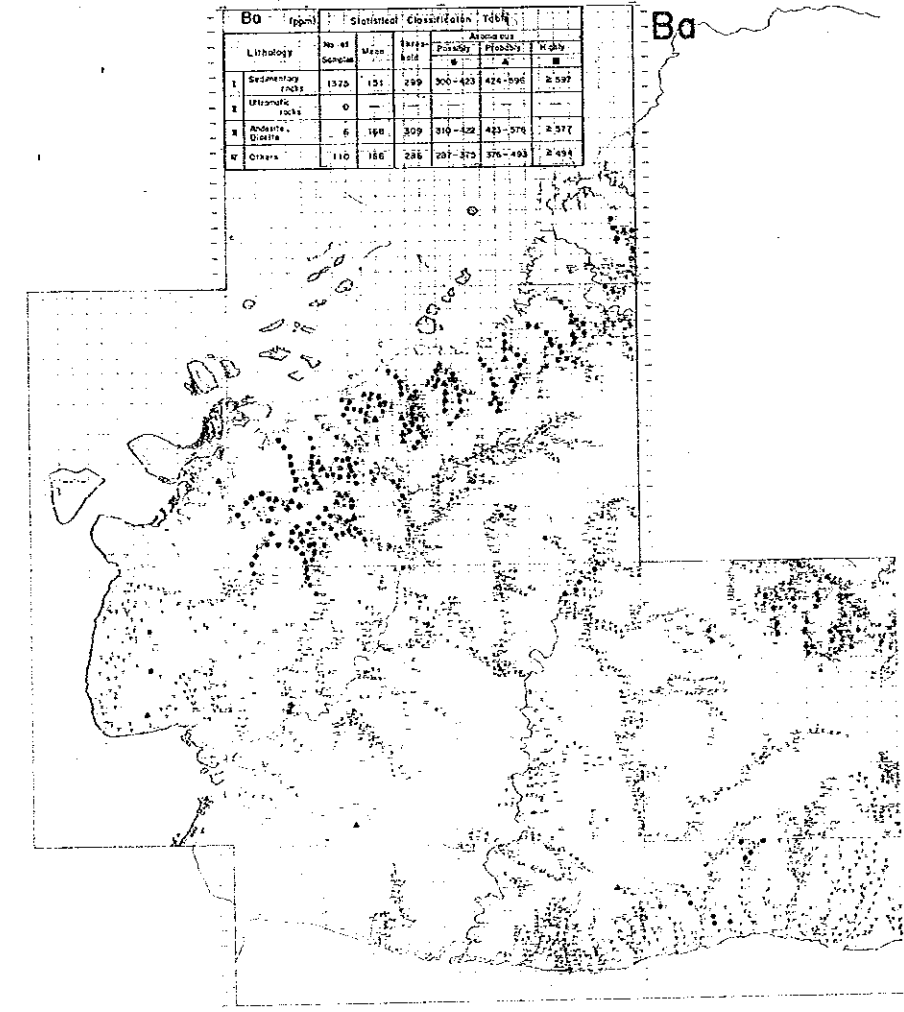
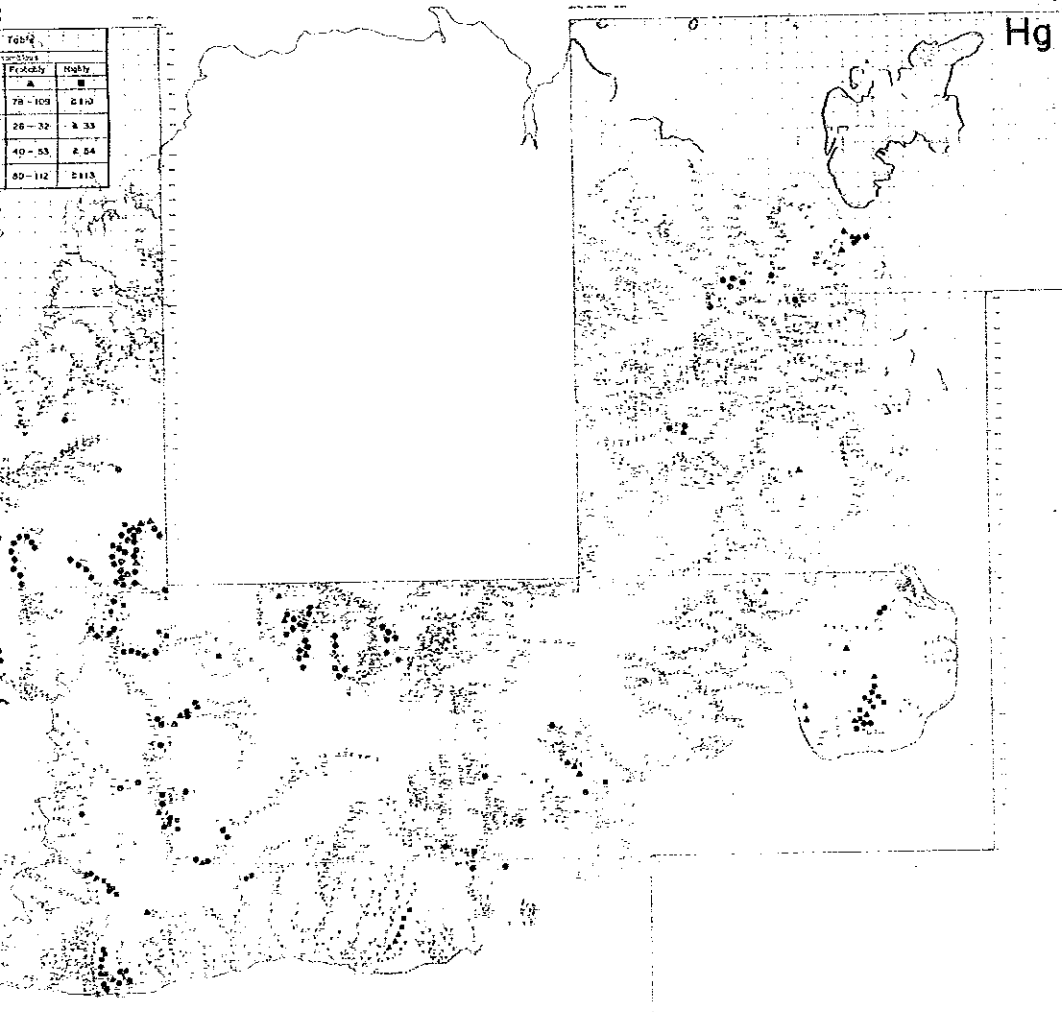


Lithology	No. of Samples	Mean	Statistical Classification Table			
			Min	Q1	Q3	Max
I Sedimentary rocks	272	603	145	174-190	171-225	2 1875
II Ultramafic rocks	41	666	129	130-130	130-130	1 1831
III Andesite, Gabbro	189	625	130	131-140	131-157	1 1899
IV Others	235	669	133	134-166	136-200	2 1800

Lithology	No. of Samples	Mean	Statistical Classification Table			
			Min	Q1	Q3	Max
I Sedimentary rocks	272	0.1	0.1	0.2	0.3	1.04
II Ultramafic rocks	41	0.1	0.1	0.2	0.3	1.04
III Andesite, Gabbro	189	0.1	0.1	0.2	0.3	1.04
IV Others	235	0.2	0.2	0.3-0.4	0.5-0.8	1.87



Mean	Stdev	High
78-108	2.10	
26-32	1.33	
40-53	2.54	
62-112	2.13	

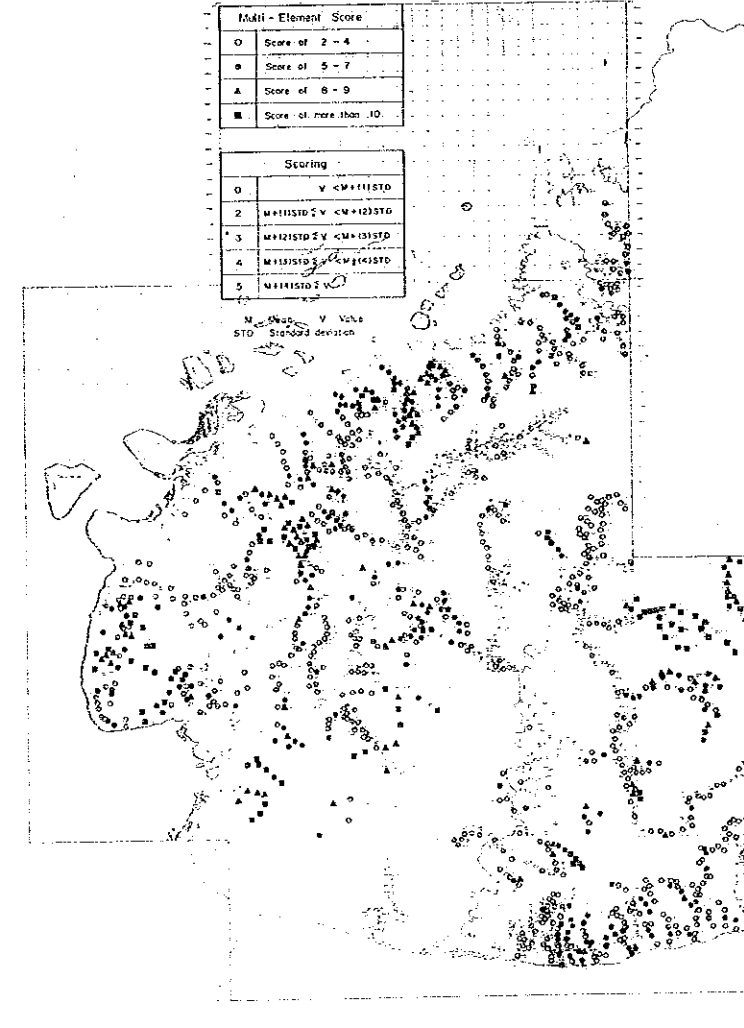


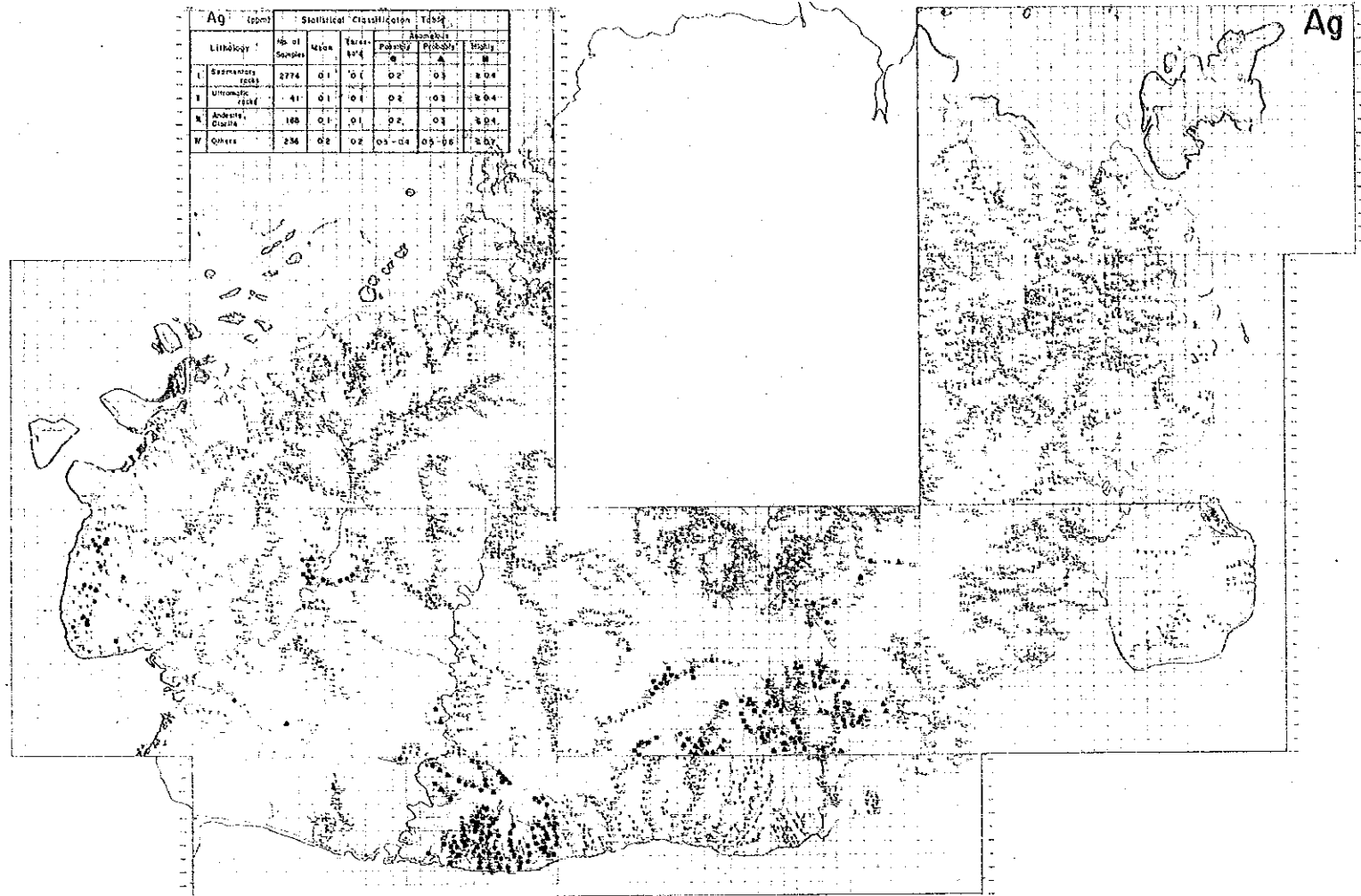
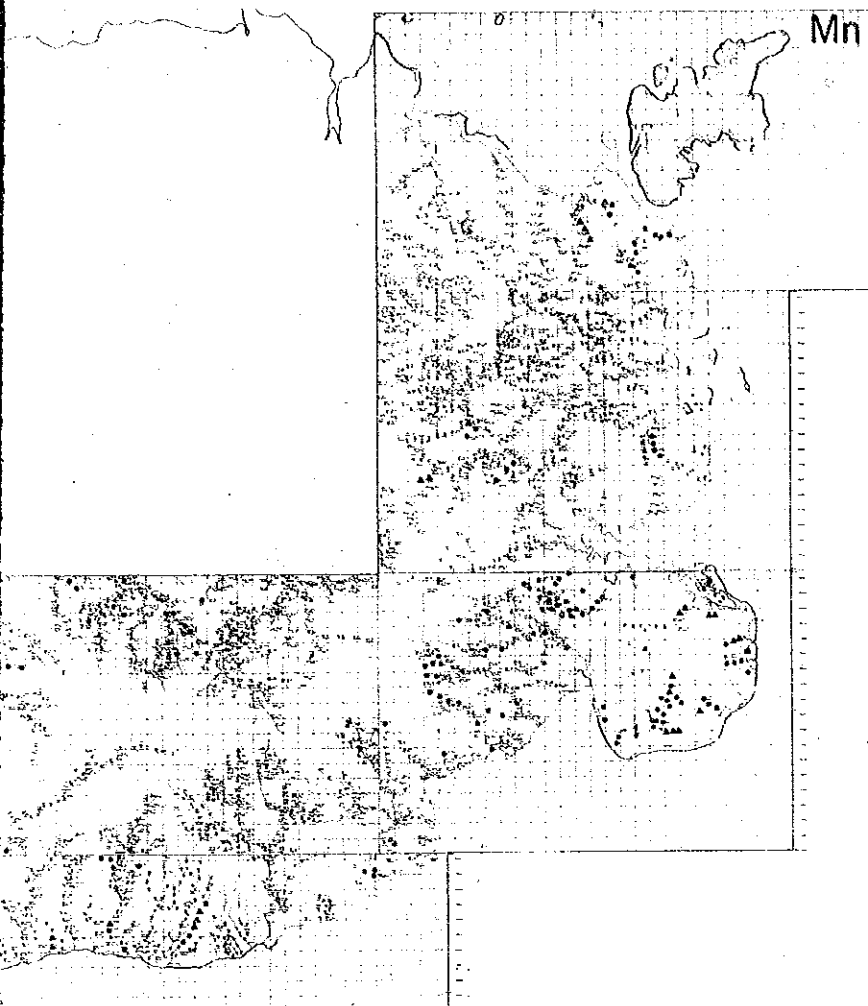
Lithology	No. of Samples	Mean	Statistical Classification Table			
			Min	Q1	Q3	Max
I Sedimentary rocks	1320	151	259	300-423	424-595	2 597
II Ultramafic rocks	0	—	—	—	—	—
III Andesite, Gabbro	6	190	309	310-322	423-378	2 377
IV Others	110	186	258	267-275	376-493	2 494

Multi-Element Score	
0	Score of 2 - 4
1	Score of 5 - 7
2	Score of 8 - 9
3	Score of more than 10

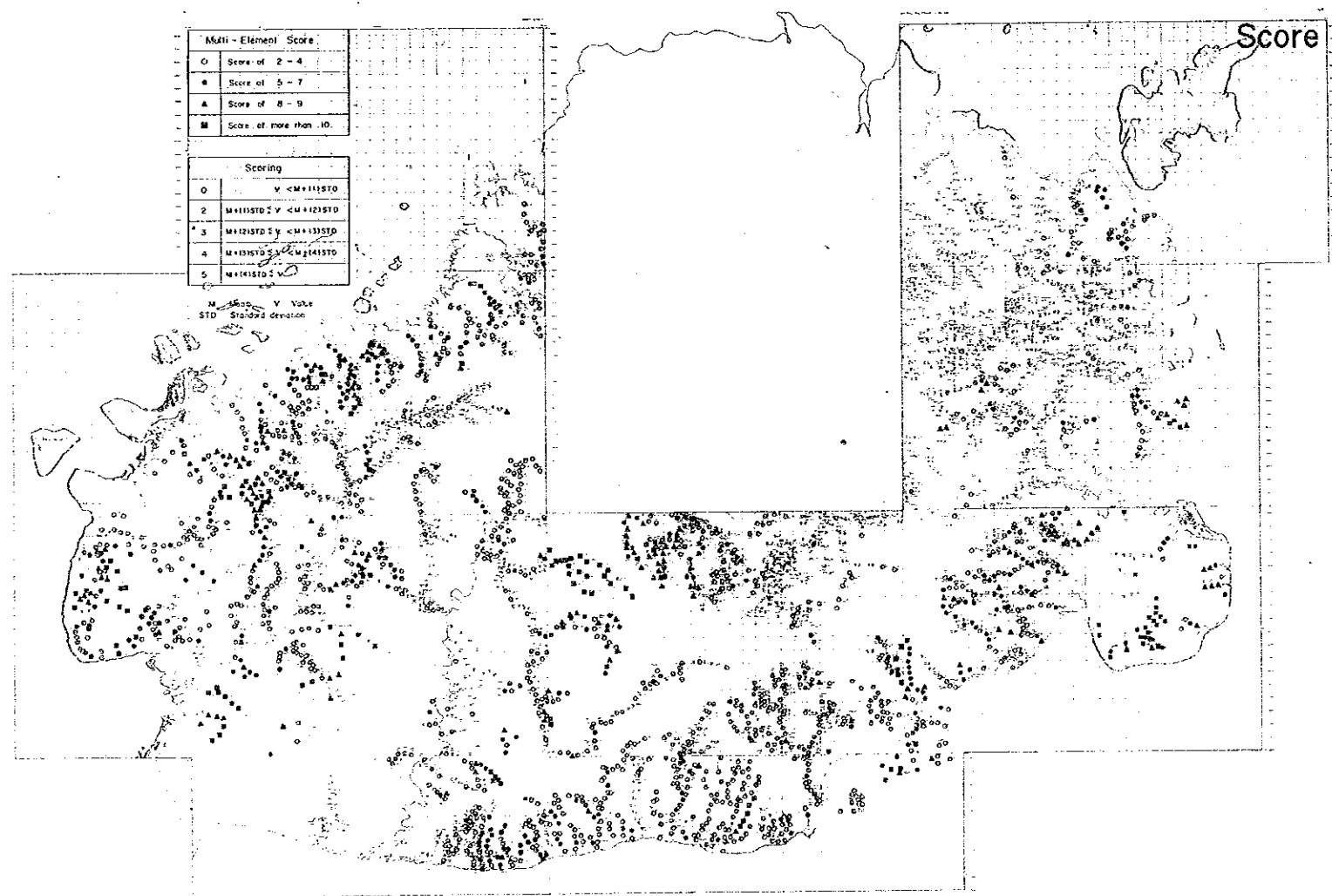
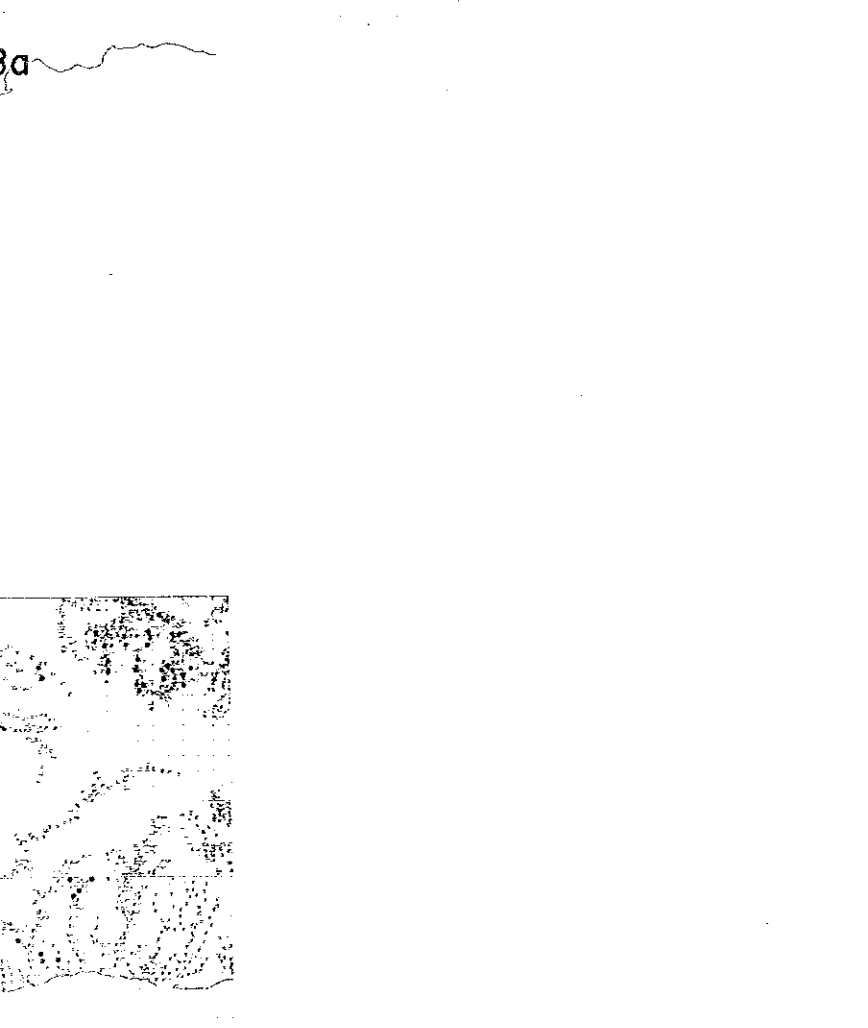
Scoring	
0	V <M+11STO
1	M+11STO < V <M+123STO
2	M+121STO < V <M+131STO
3	M+131STO < V <M+141STO
4	M+141STO < V <M+151STO
5	M+151STO < V

M = Mean, V = Value
STO = Standard deviation





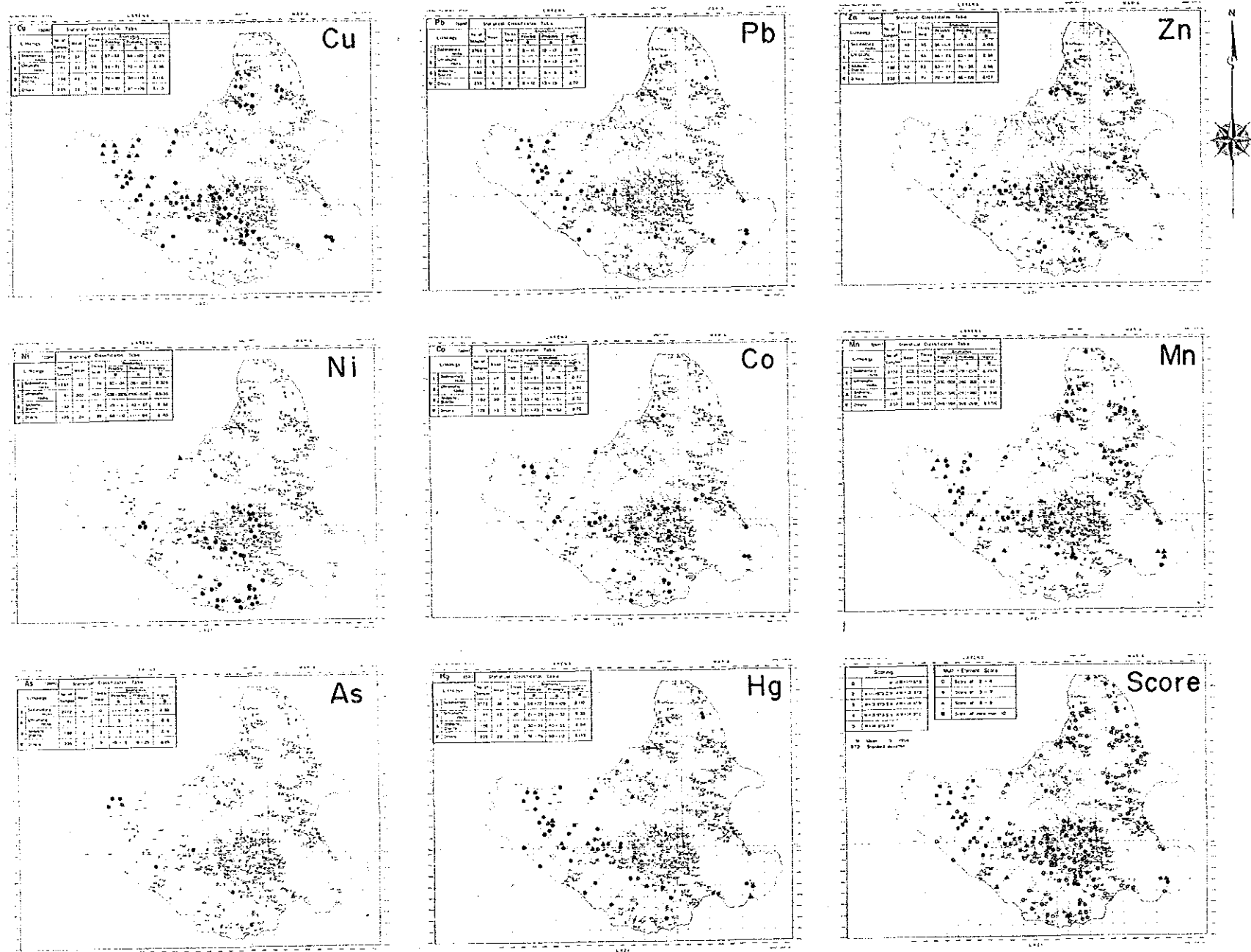
Lithology	No. of Samples	Statistical Characteristics				Units
		Mean	Std. Dev.	Min.	Max.	
L. Sandstone	2774	0.1	0.1	0.0	0.3	# 04
I. Ultramafic	41	0.1	0.1	0.0	0.3	# 04
K. Andesite	188	0.1	0.1	0.0	0.3	# 04
M. Gneiss	234	0.2	0.2	0.0	0.6	# 04



Multi-Element Score	
O	Score of 2 - 4
#	Score of 5 - 7
A	Score of 8 - 9
M	Score of more than 10

Scoring	
0	v <M+11STO
2	M+11STO 2 v <M+121STO
3	M+121STO 3 v <M+131STO
4	M+131STO 4 v <M+141STO
5	M+141STO 5 v

M Mean V Value
STD Standard deviation



PL. 7-2

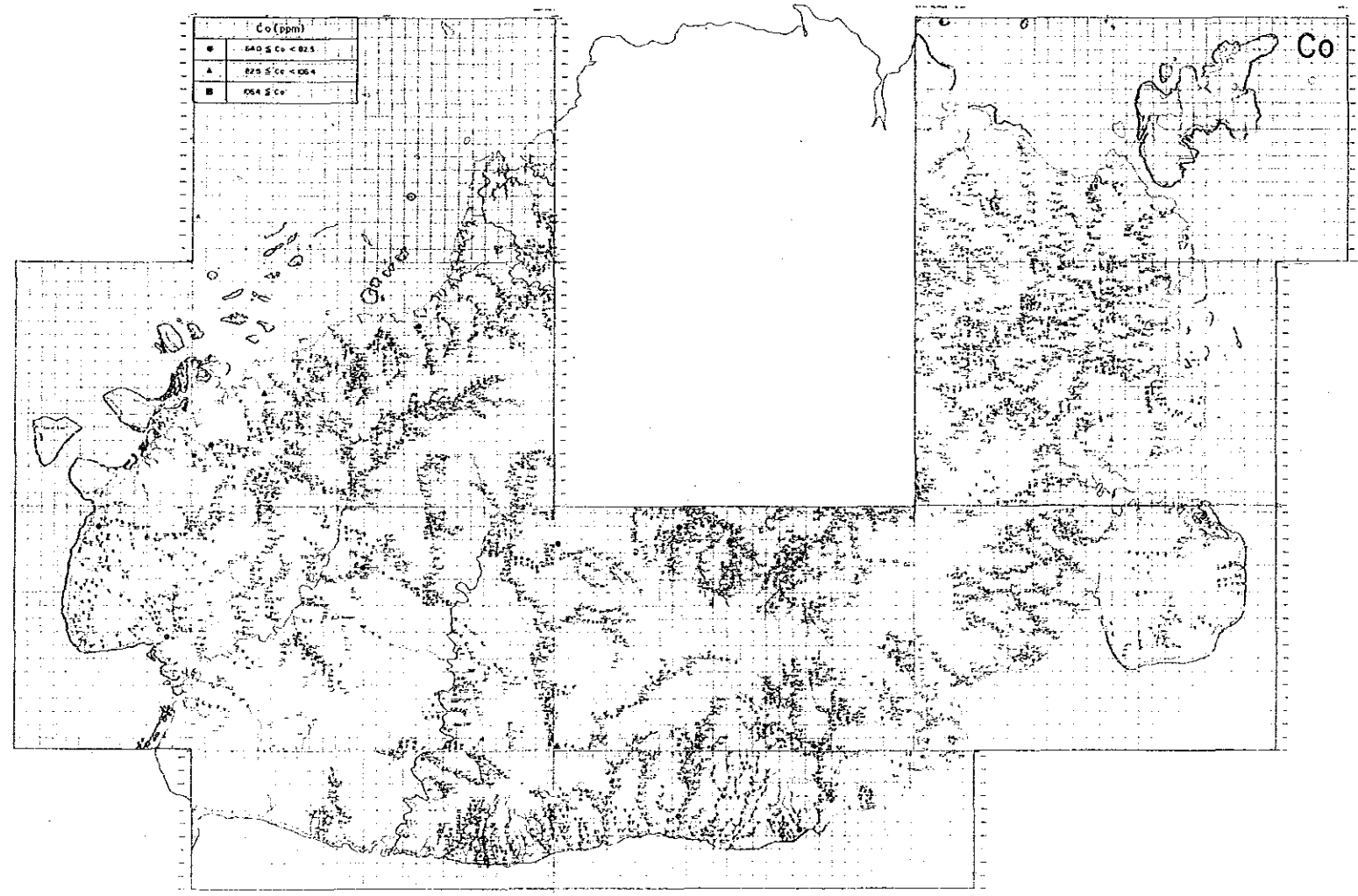
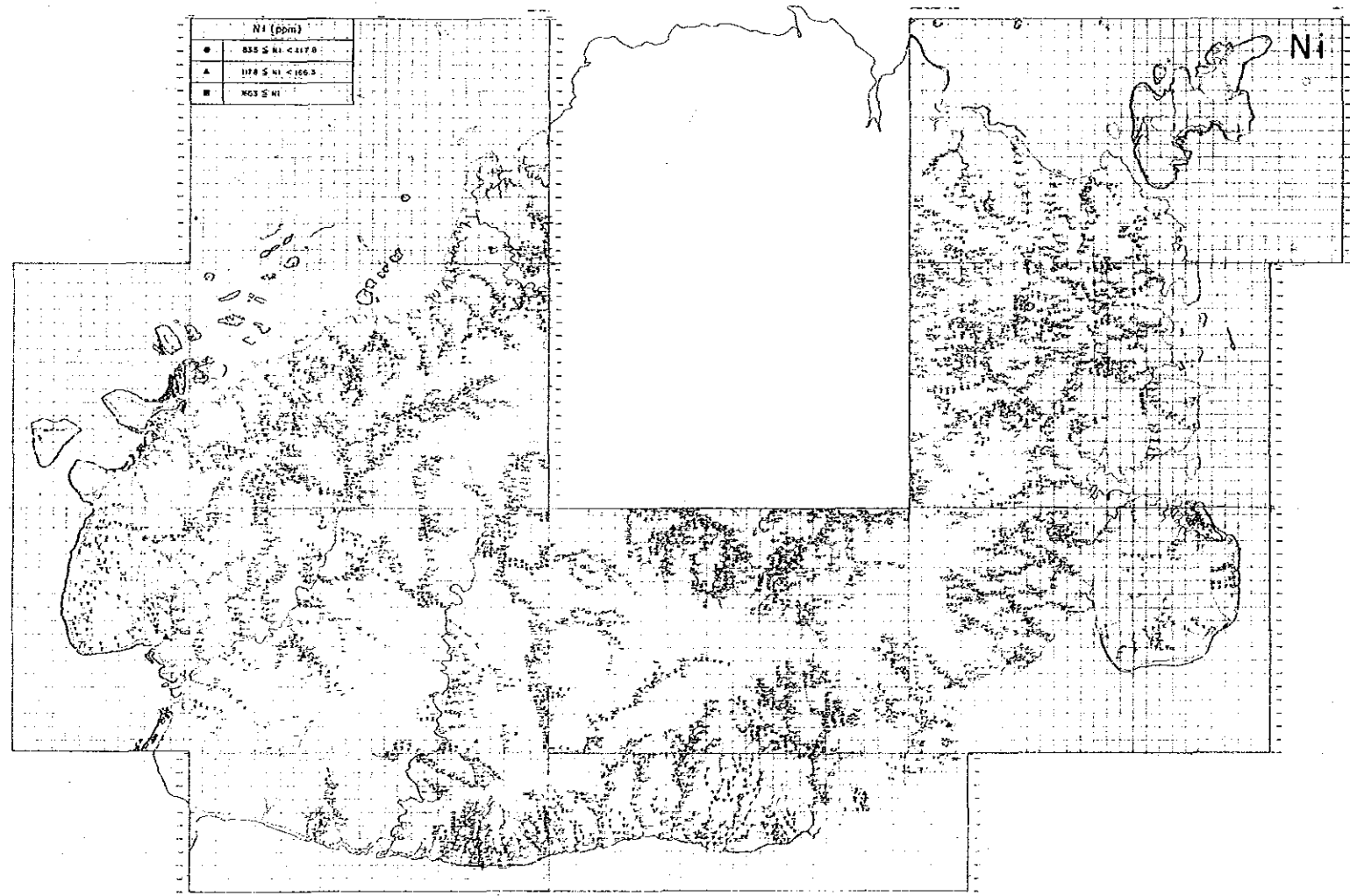
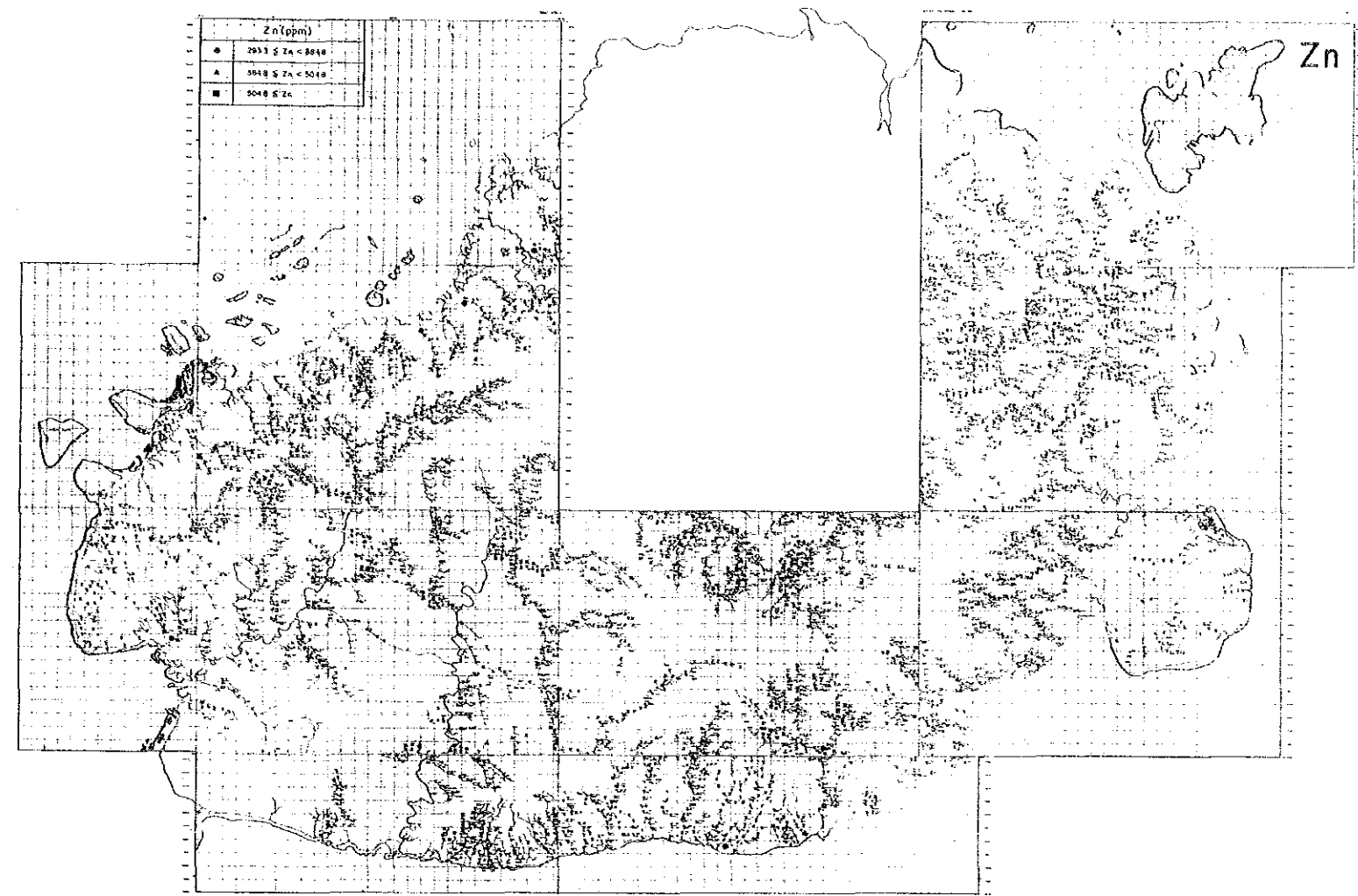
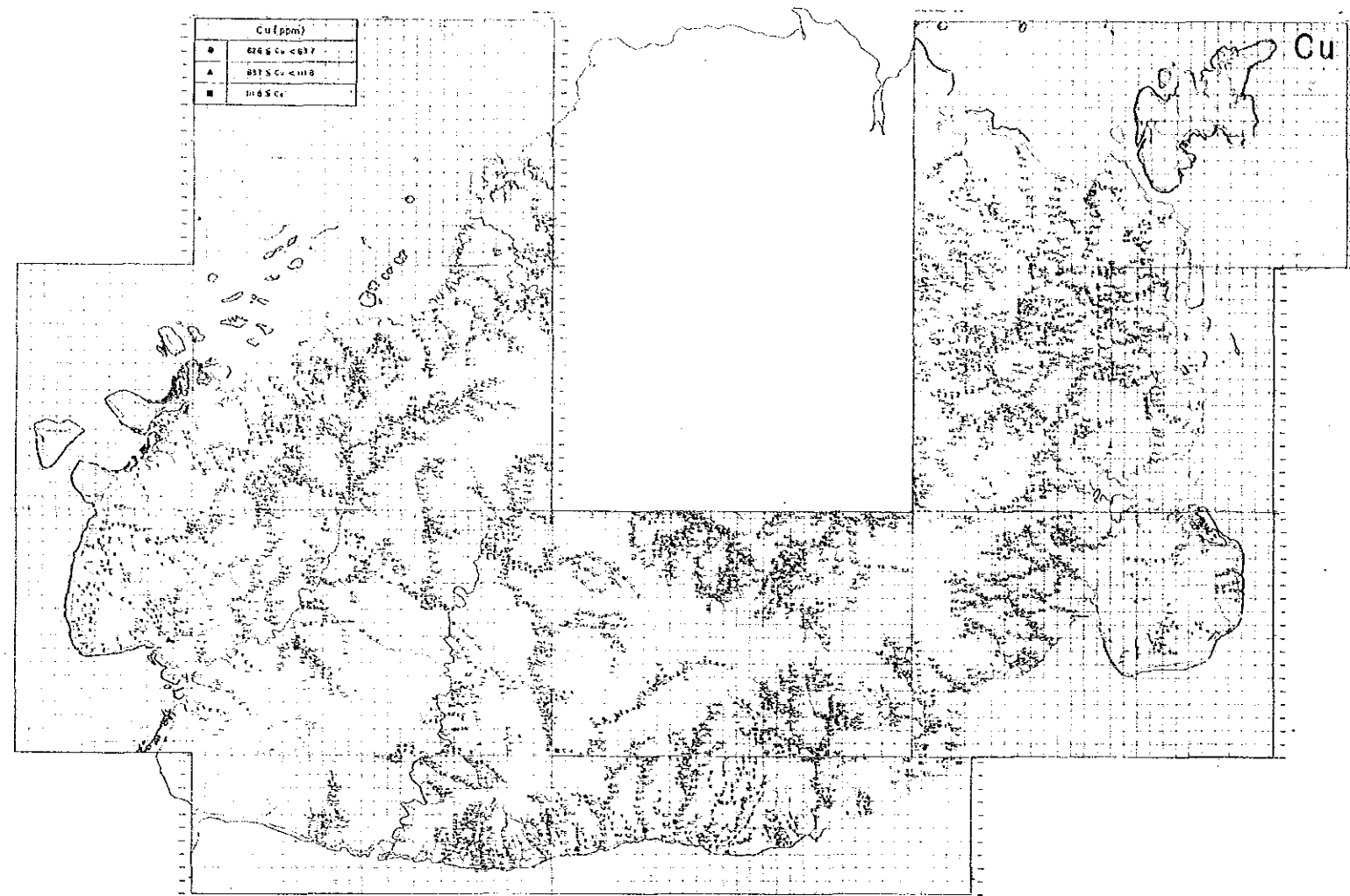
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO
CONTRASTING GEOLOGIC ENVIRONMENTS
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I
DISTRIBUTION GEOCHEMICAL ANOMALIES
OF STREAM SEDIMENT SAMPLES
BOHOL-SIQUIJOR AREA

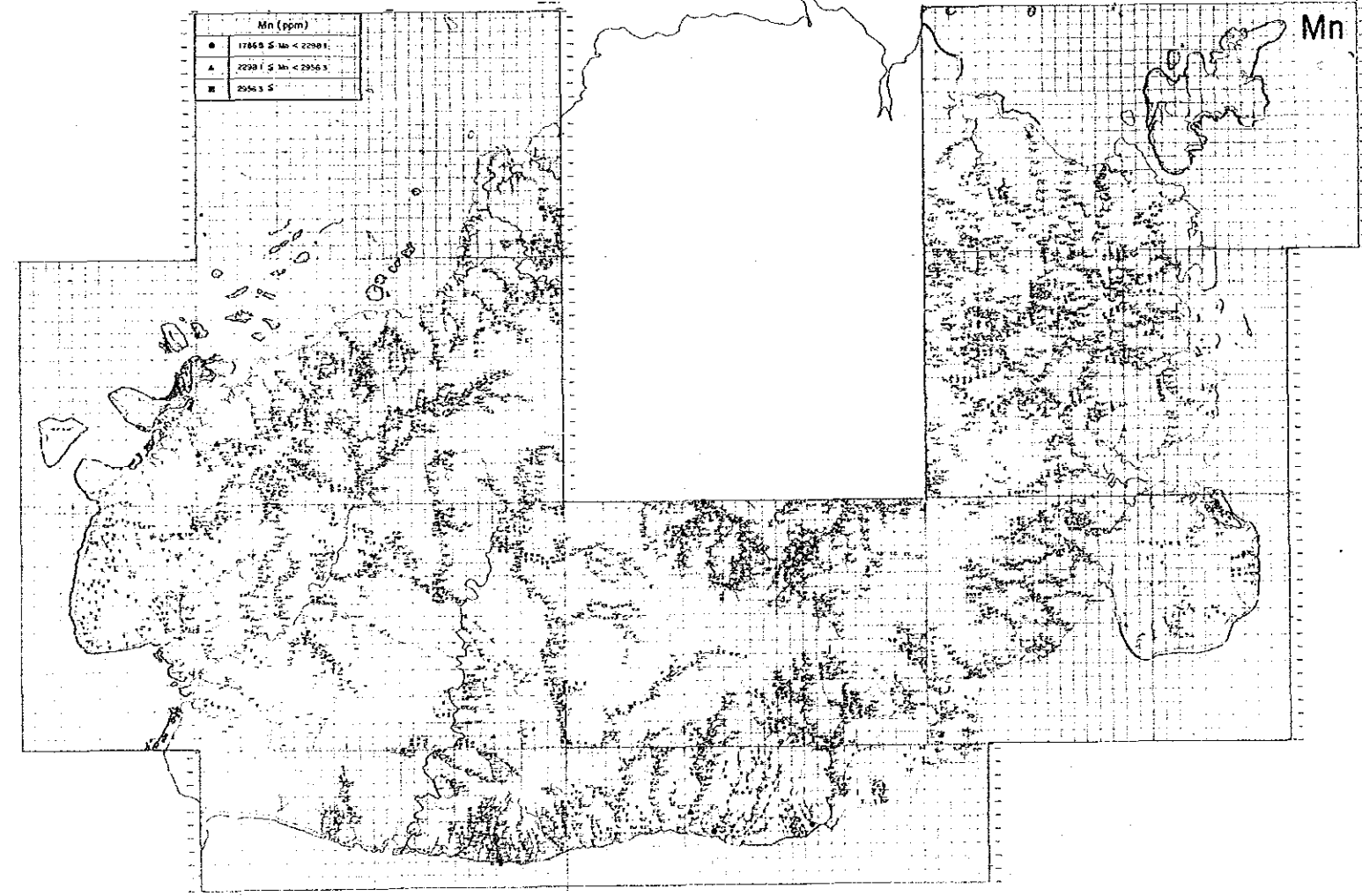
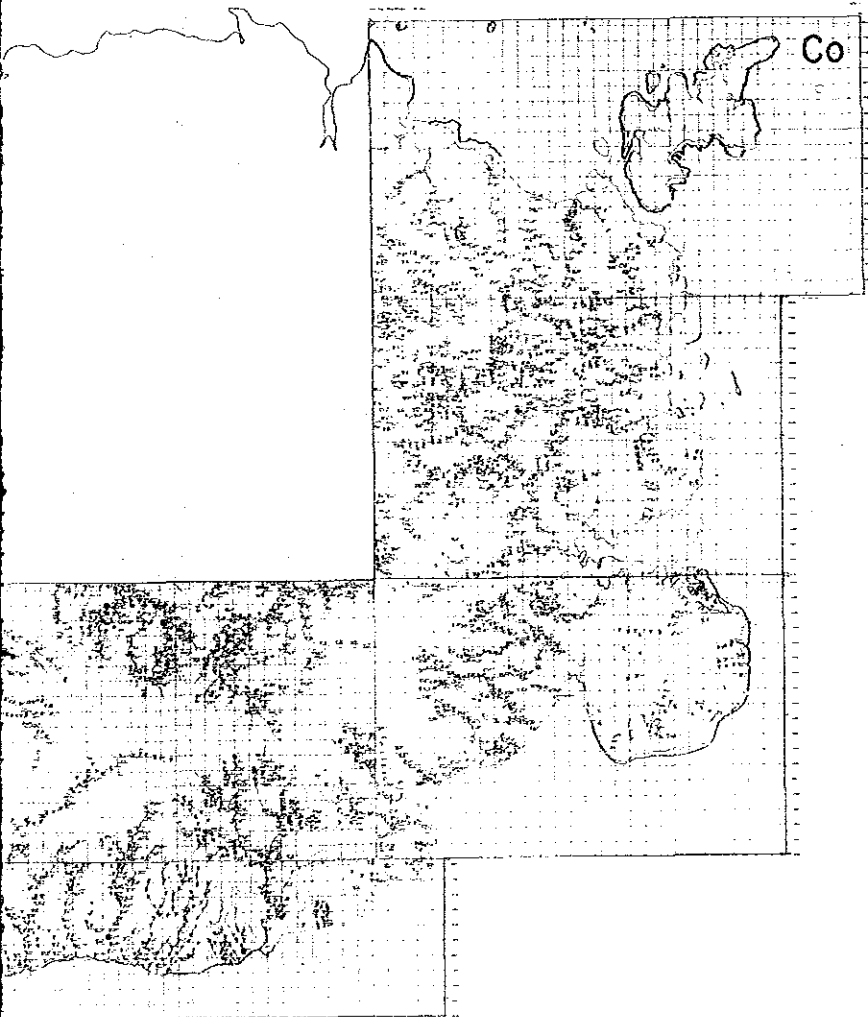
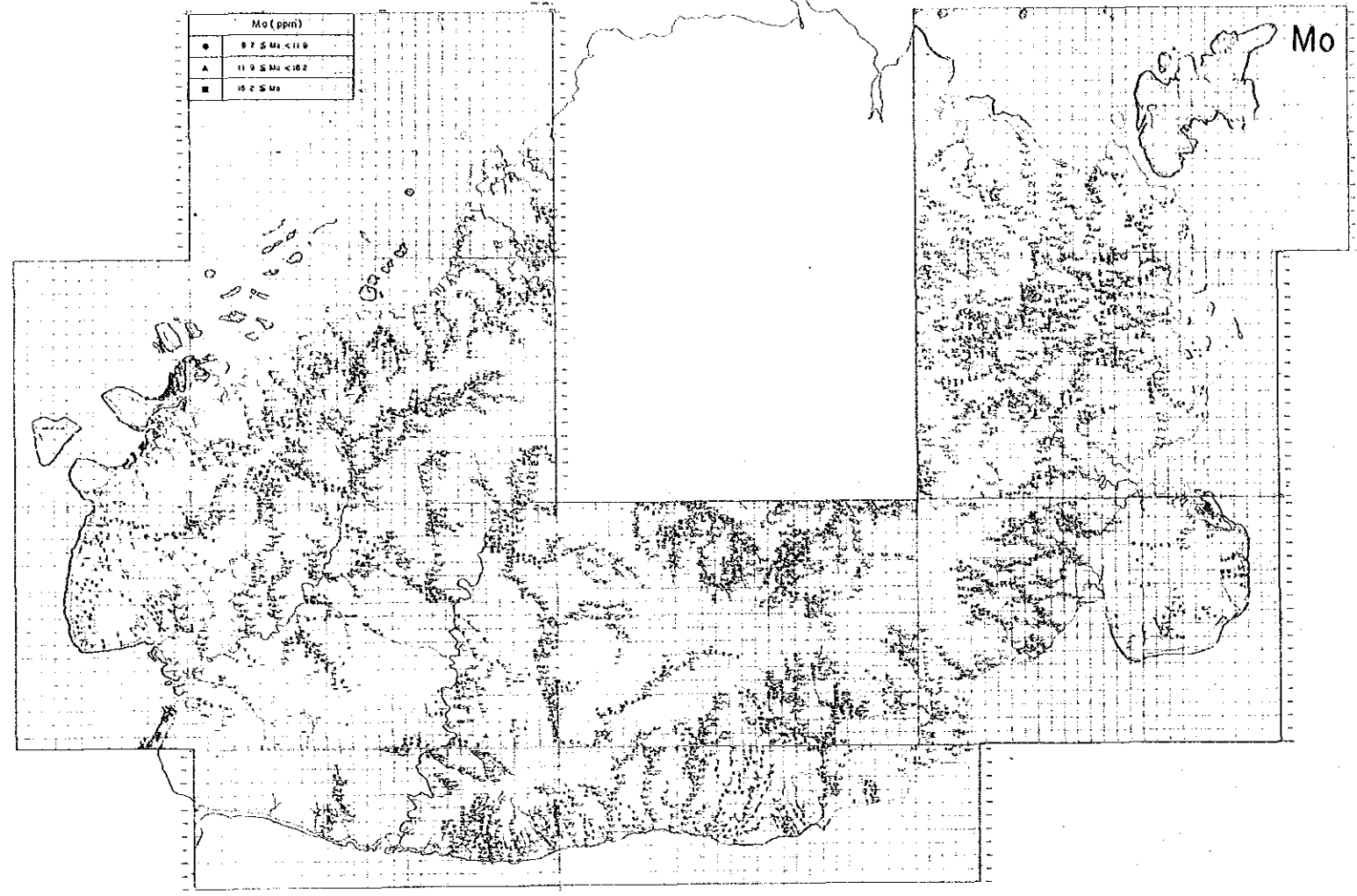
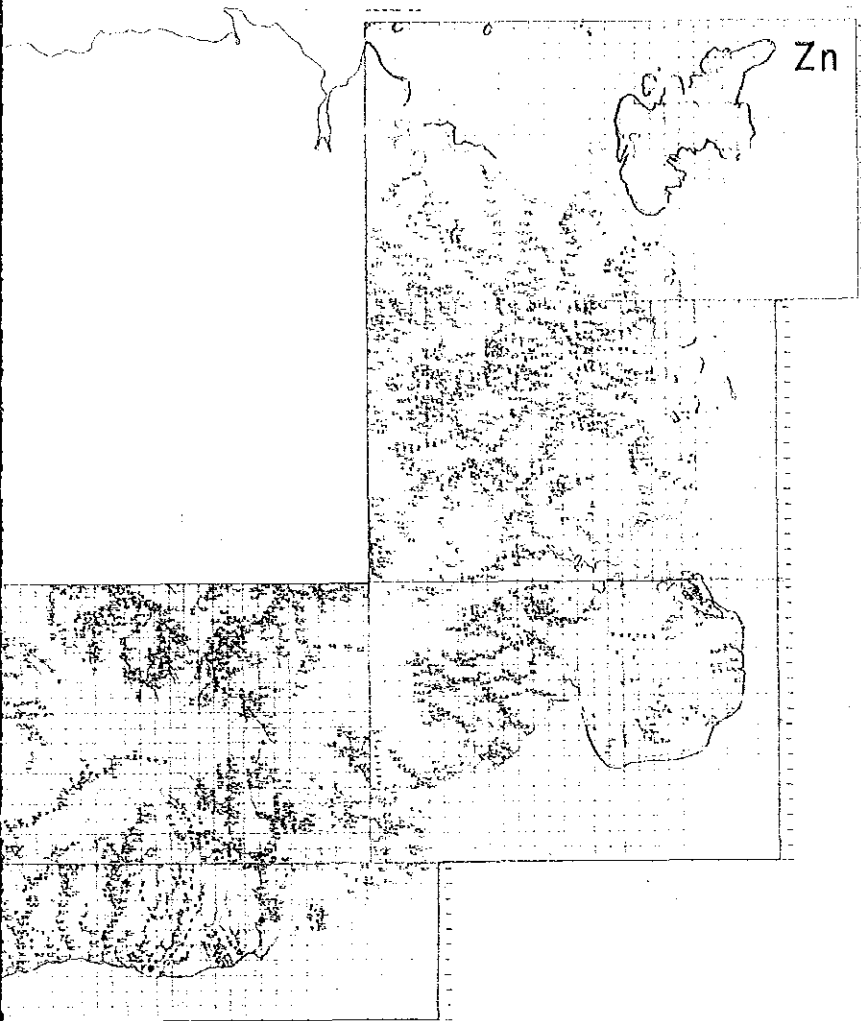
15161
圖書資料室藏

SOUTH CHINA SEA PHILIPPINE SEA
SULU SEA CELEBES SEA

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
SEPTEMBER 1985

Scale 1 : 250,000
0 10 20 km

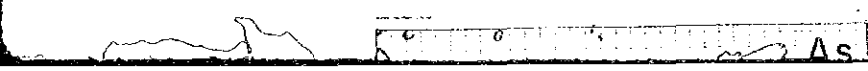
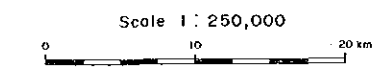


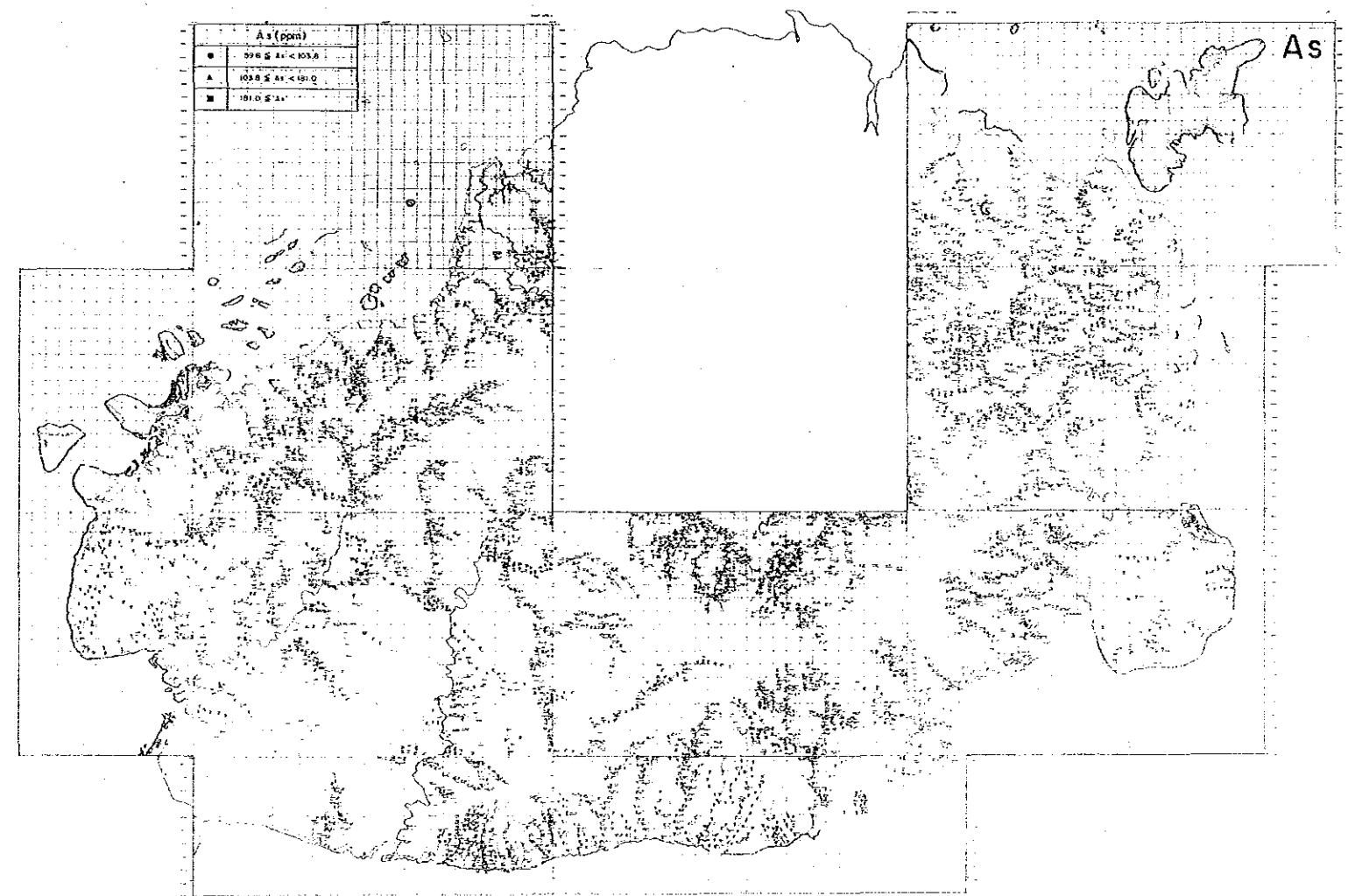
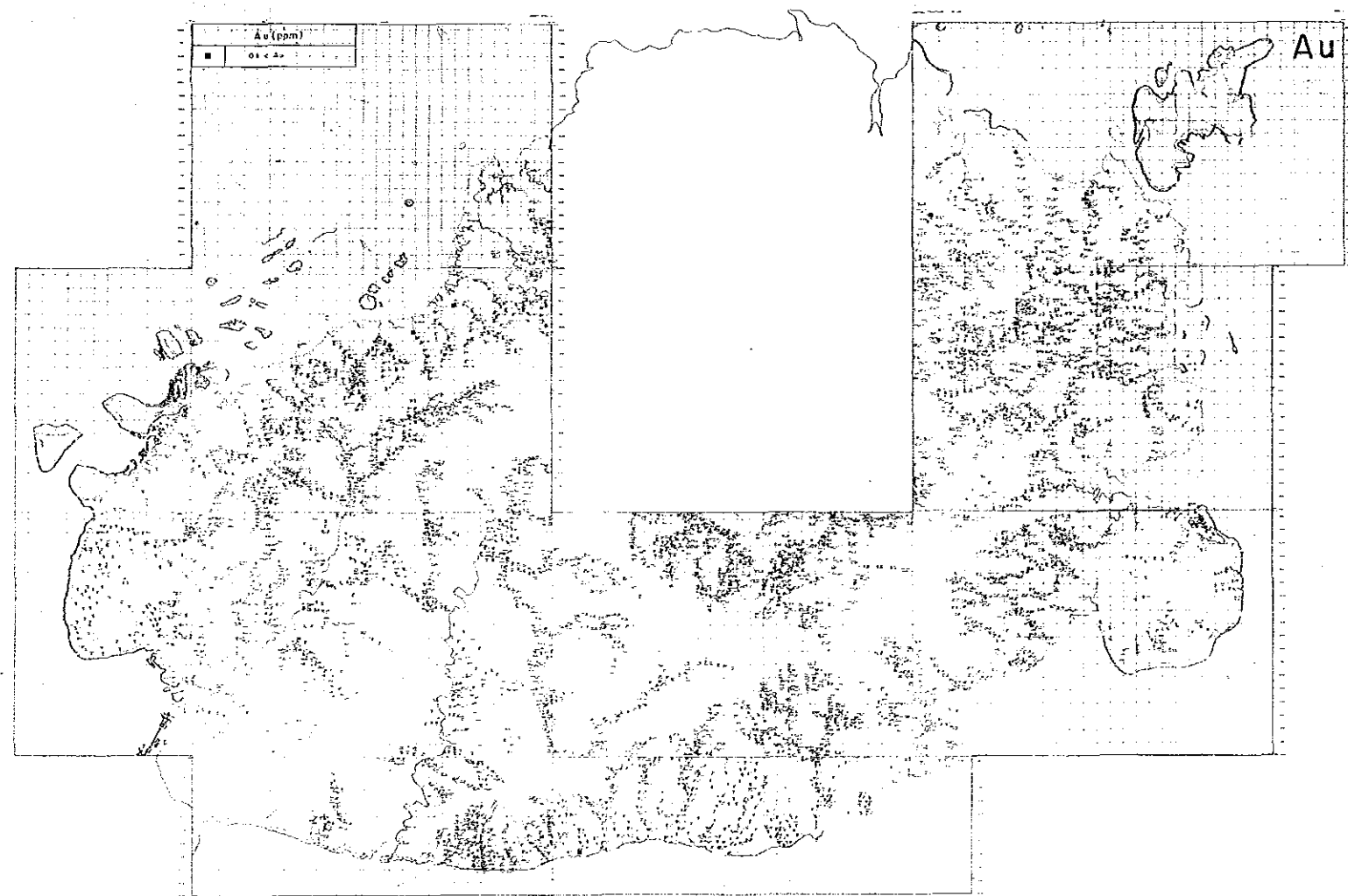
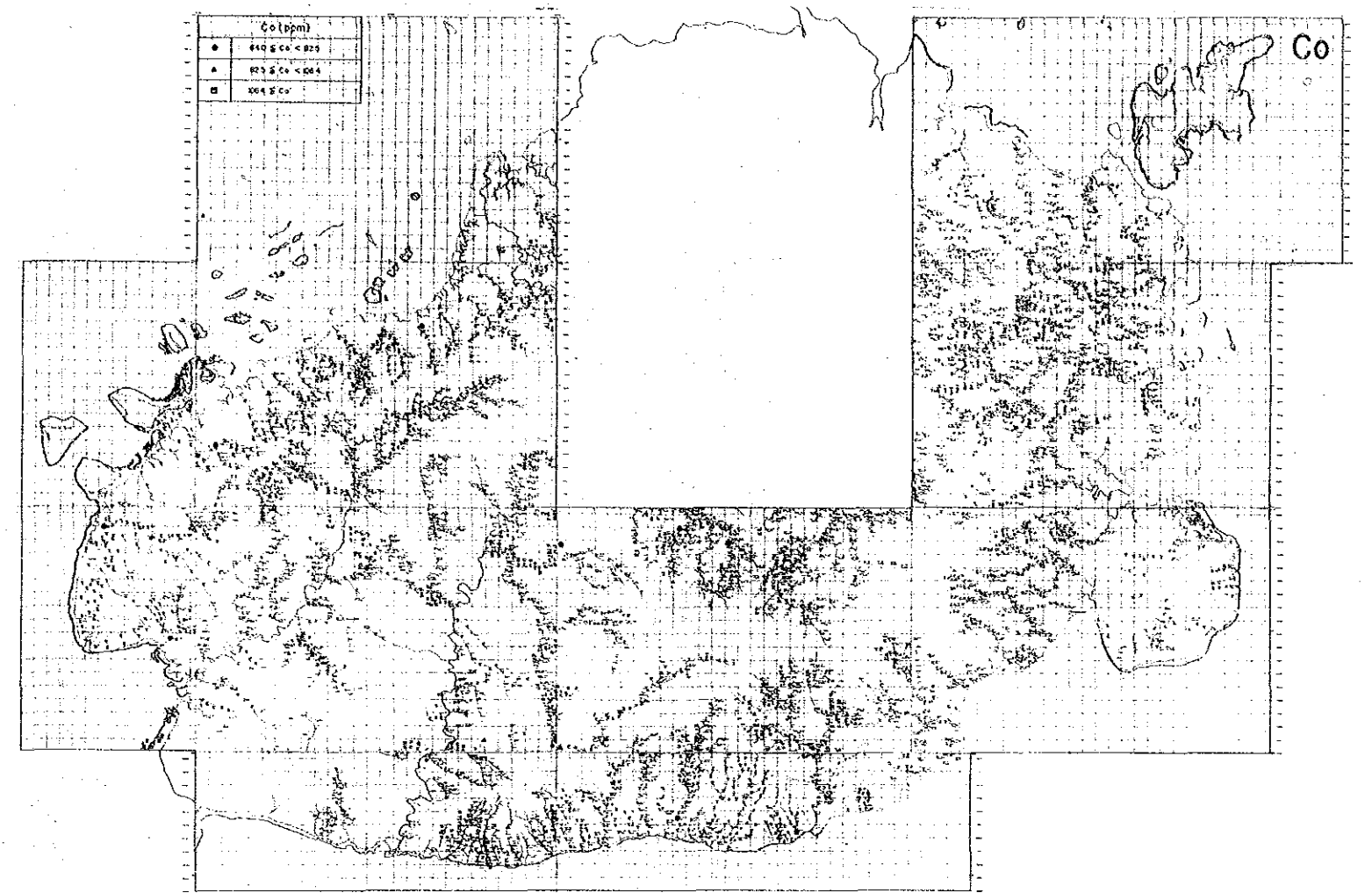
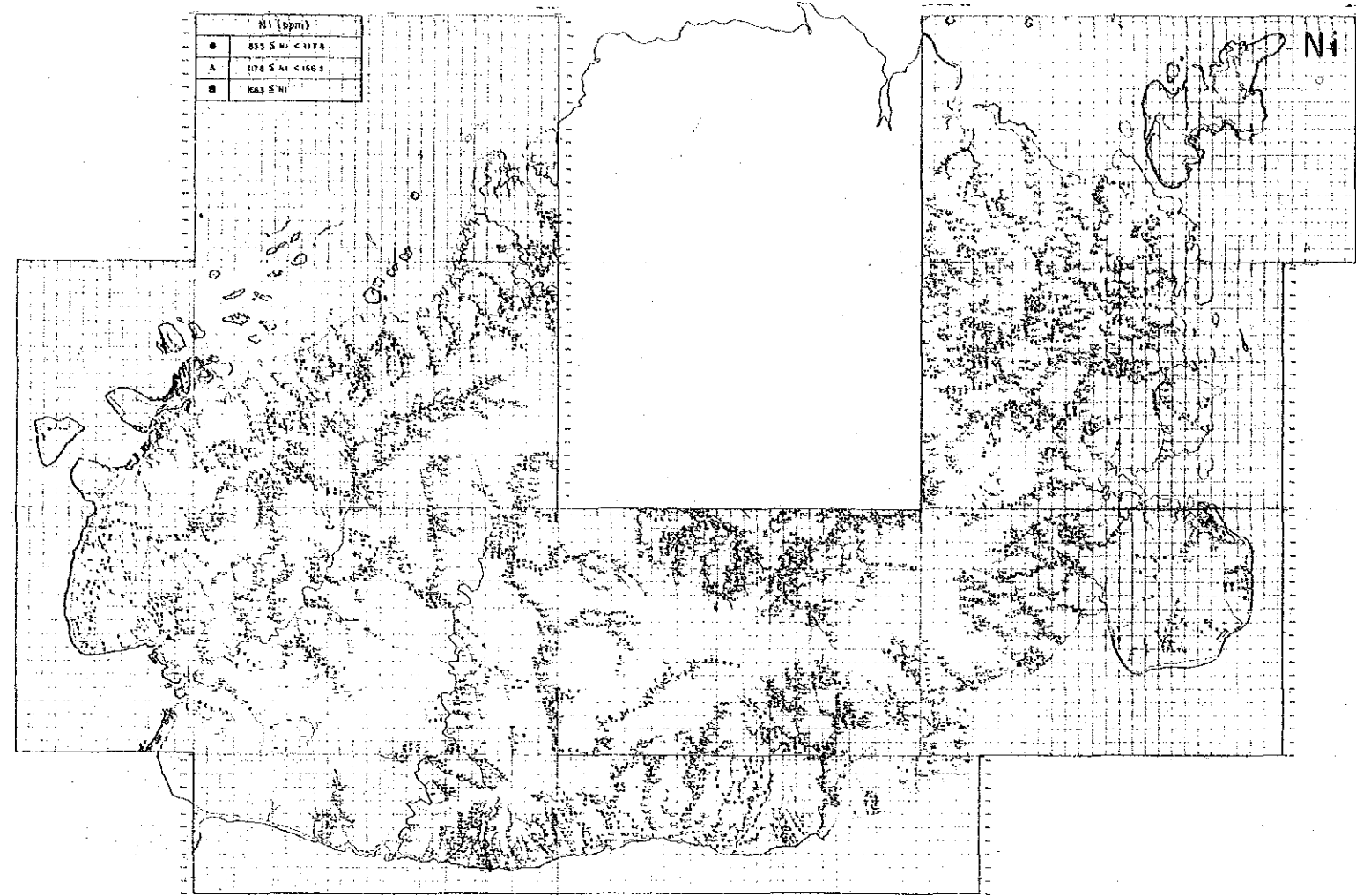


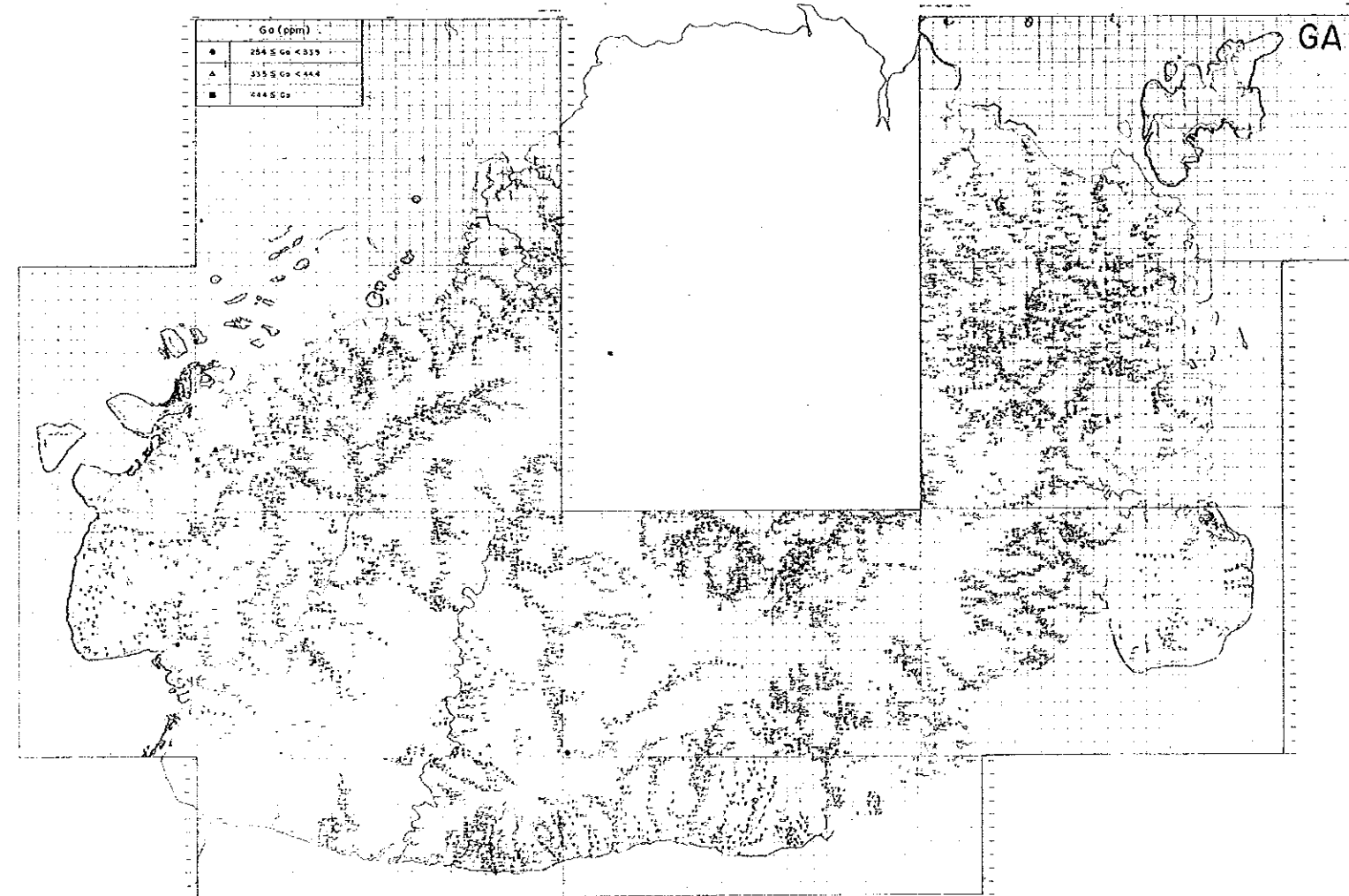
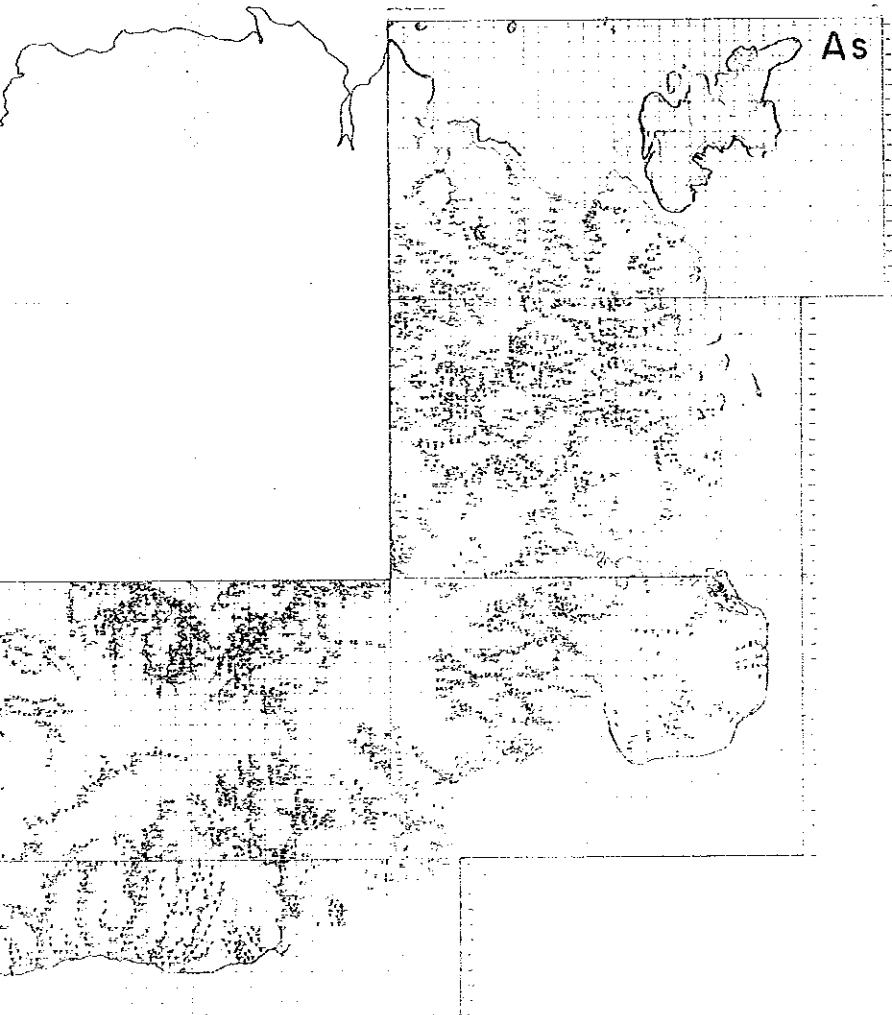
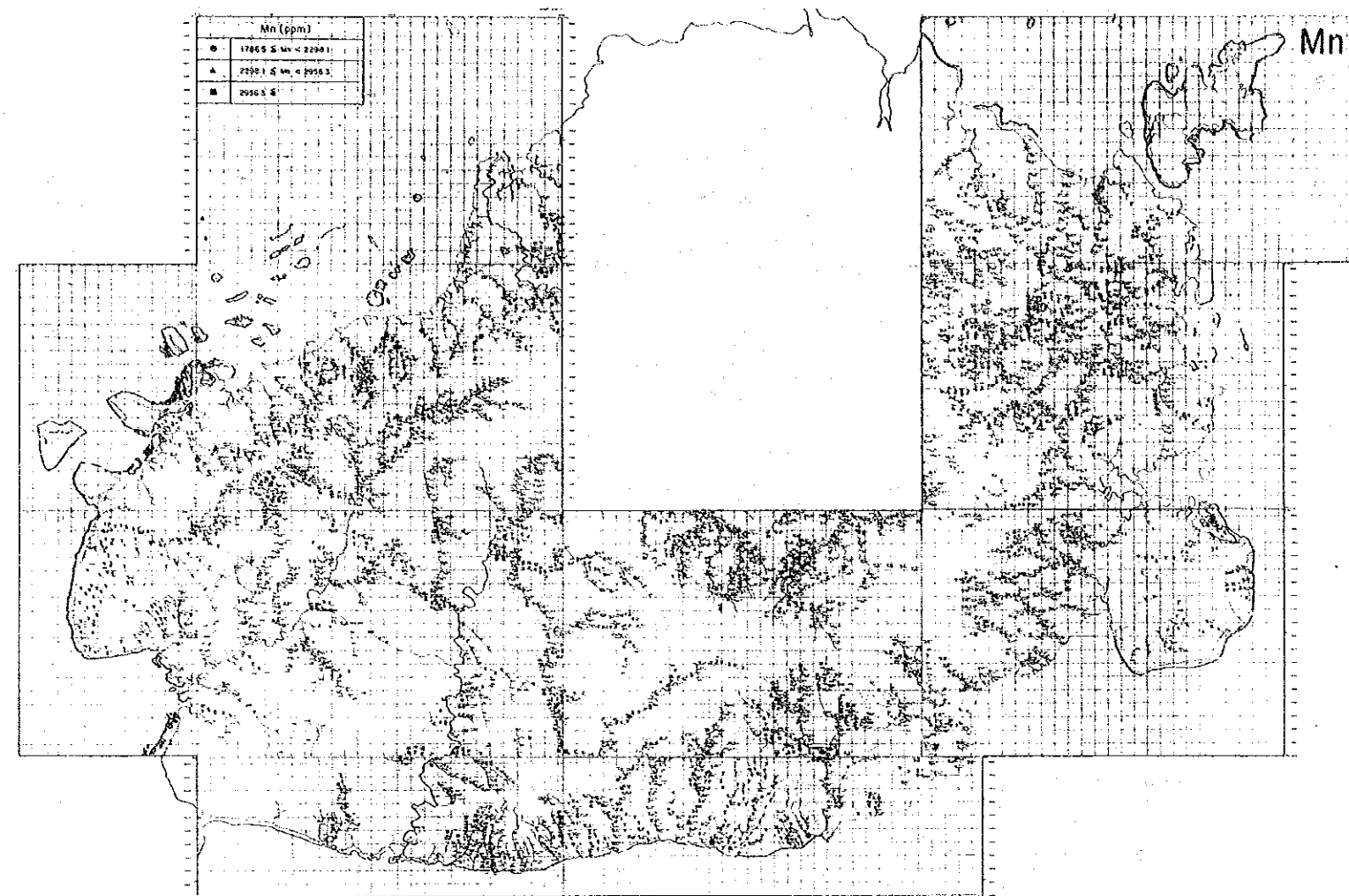
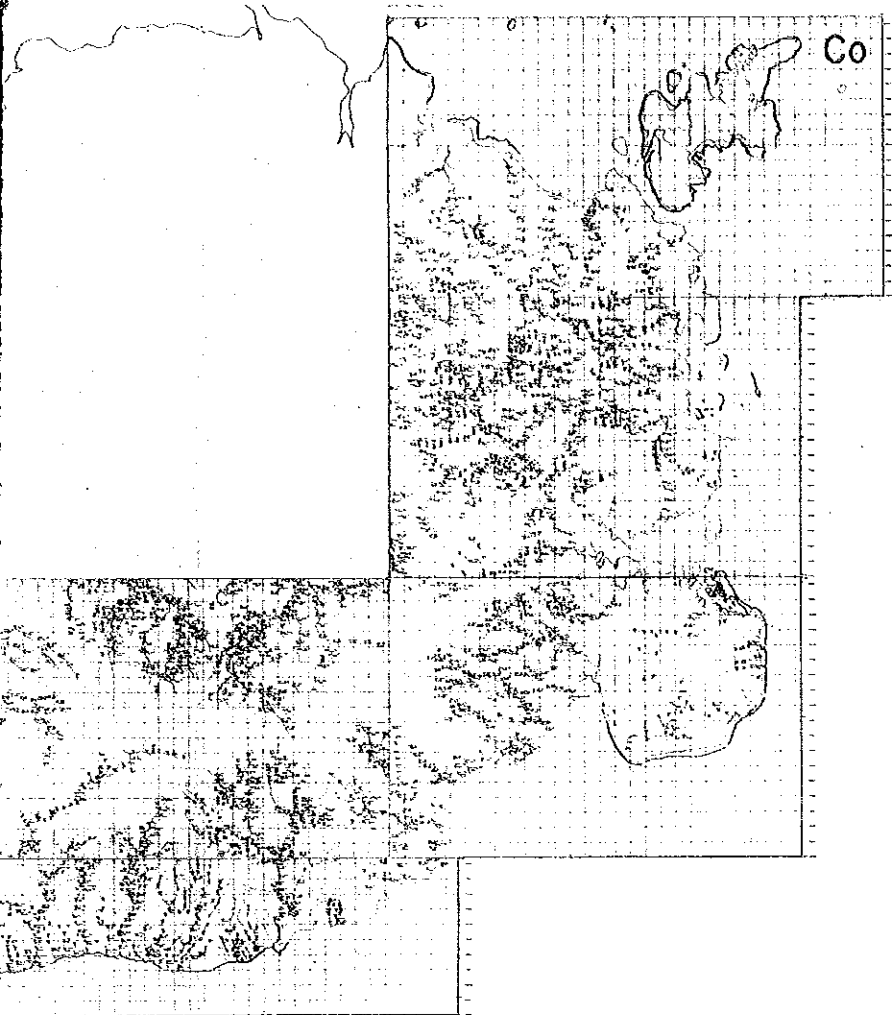
PL. 8-1

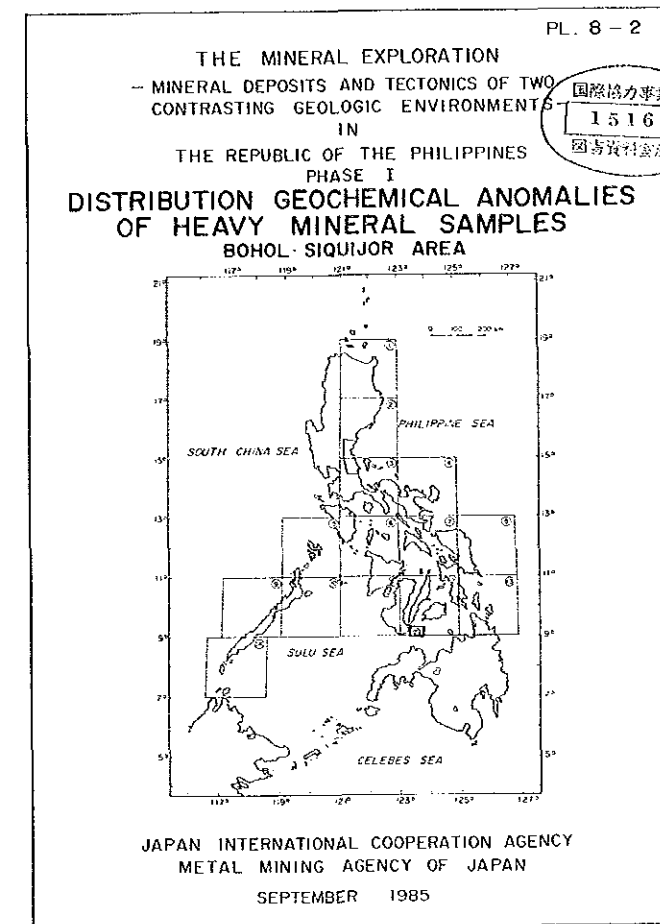
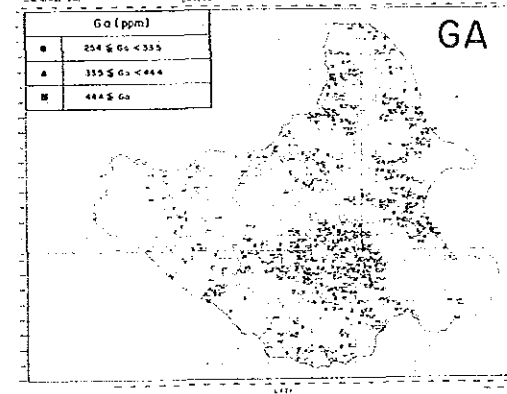
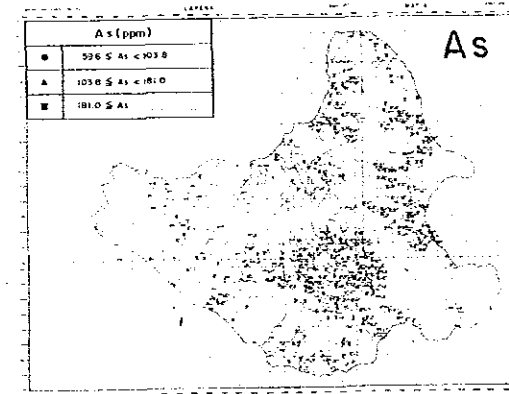
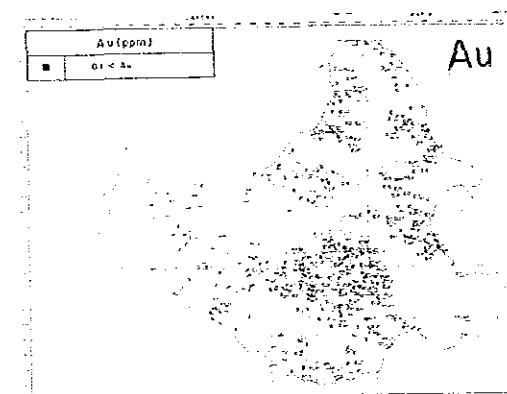
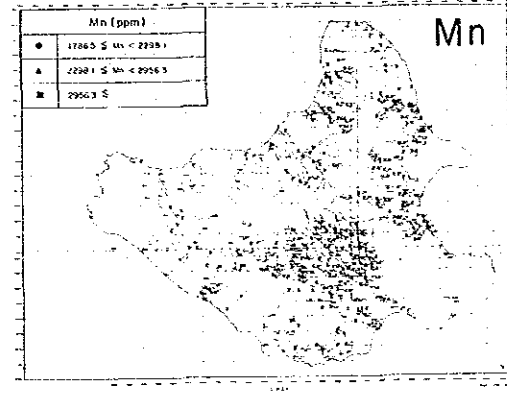
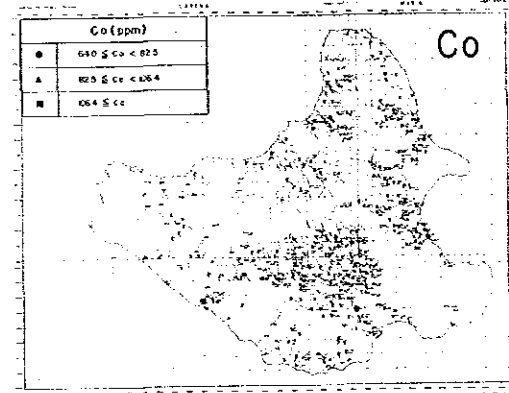
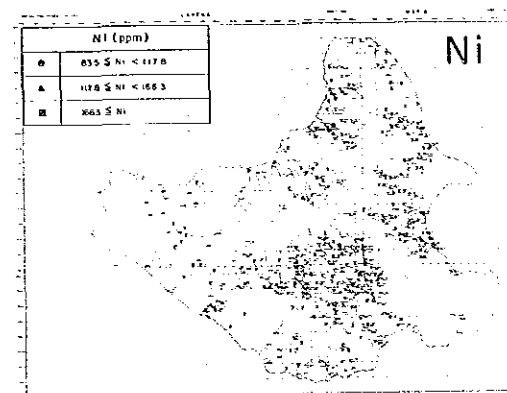
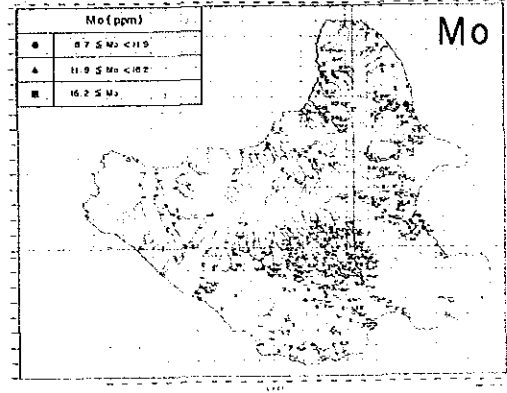
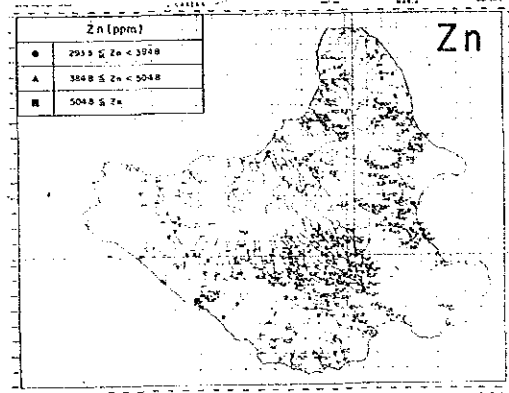
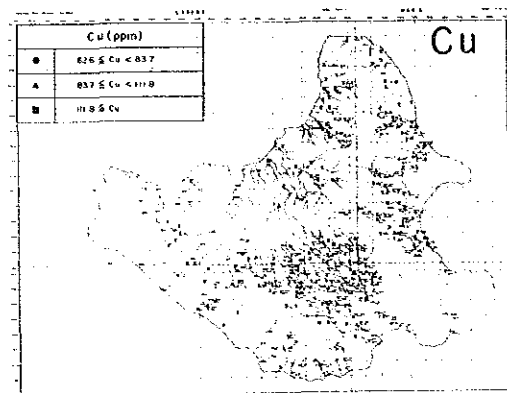
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO
CONTRASTING GEOLOGIC ENVIRONMENTS
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I
DISTRIBUTION GEOCHEMICAL ANOMALIES
OF HEAVY MINERAL SAMPLES
BOHOL-SIQUIJOR AREA

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
SEPTEMBER 1985









JICA