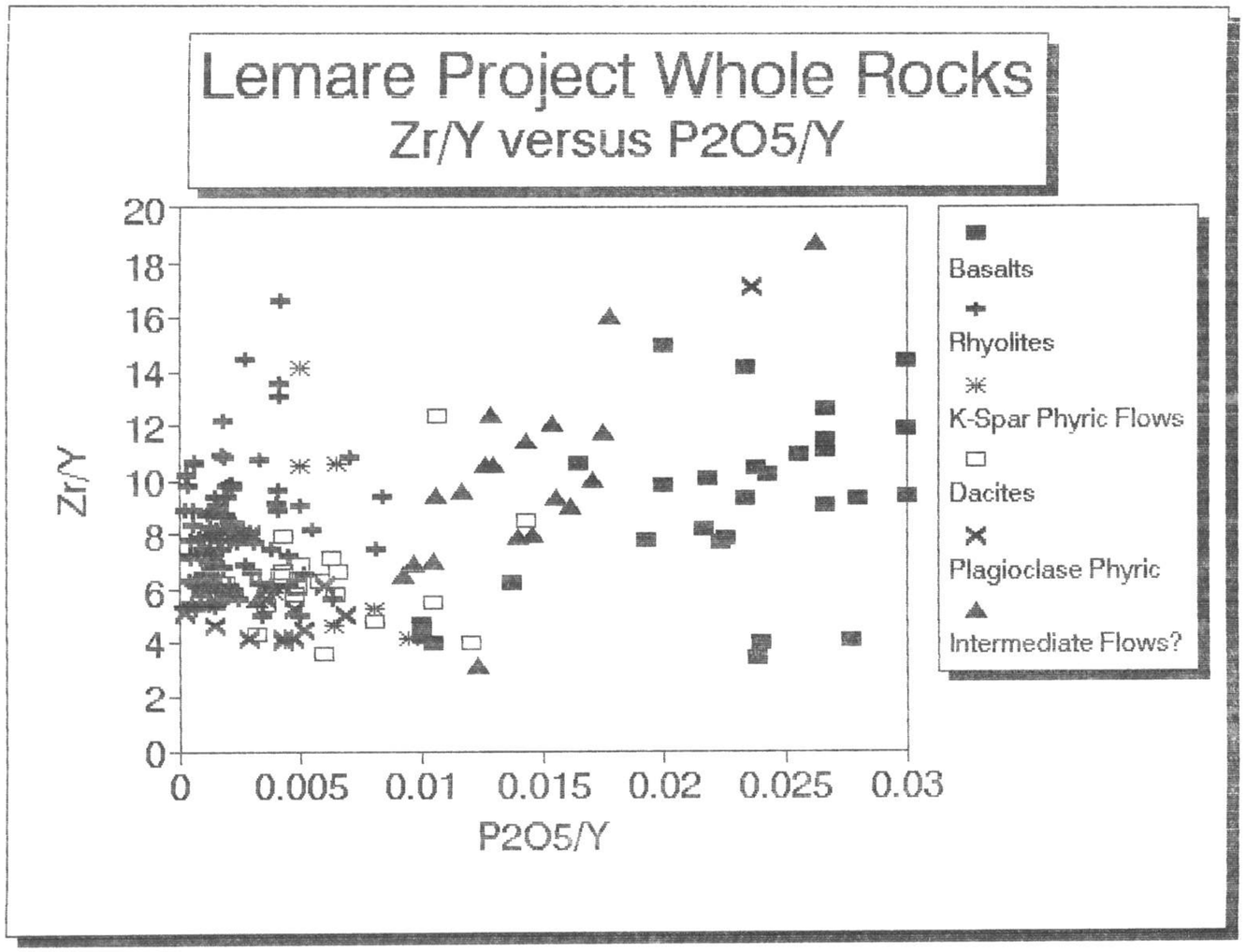
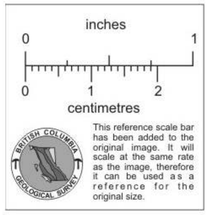
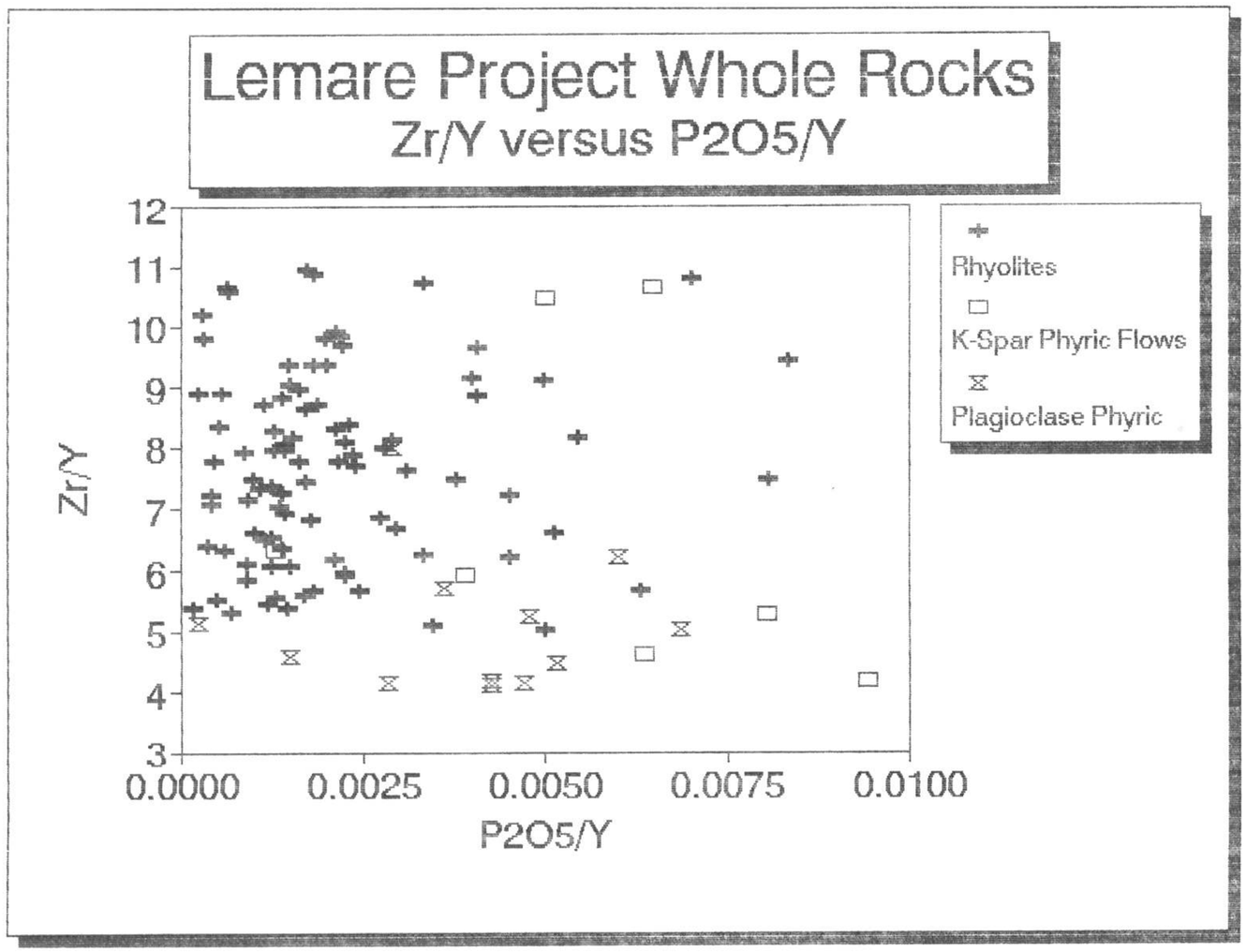
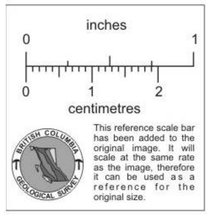
Lemare
826873
1992
092L/05
Trace Metal Plots






Lemare Project Whole Rocks
Zr/Y versus P2O5/Y
Zr/Y
12
11
10
9
8
7
6
5
4
3
0.0000
0.0025
0.0050
0.0075
0.0100
P2O5/Y
Rhyolites
K-Spar Phyric Flows
Plagioclase Phyric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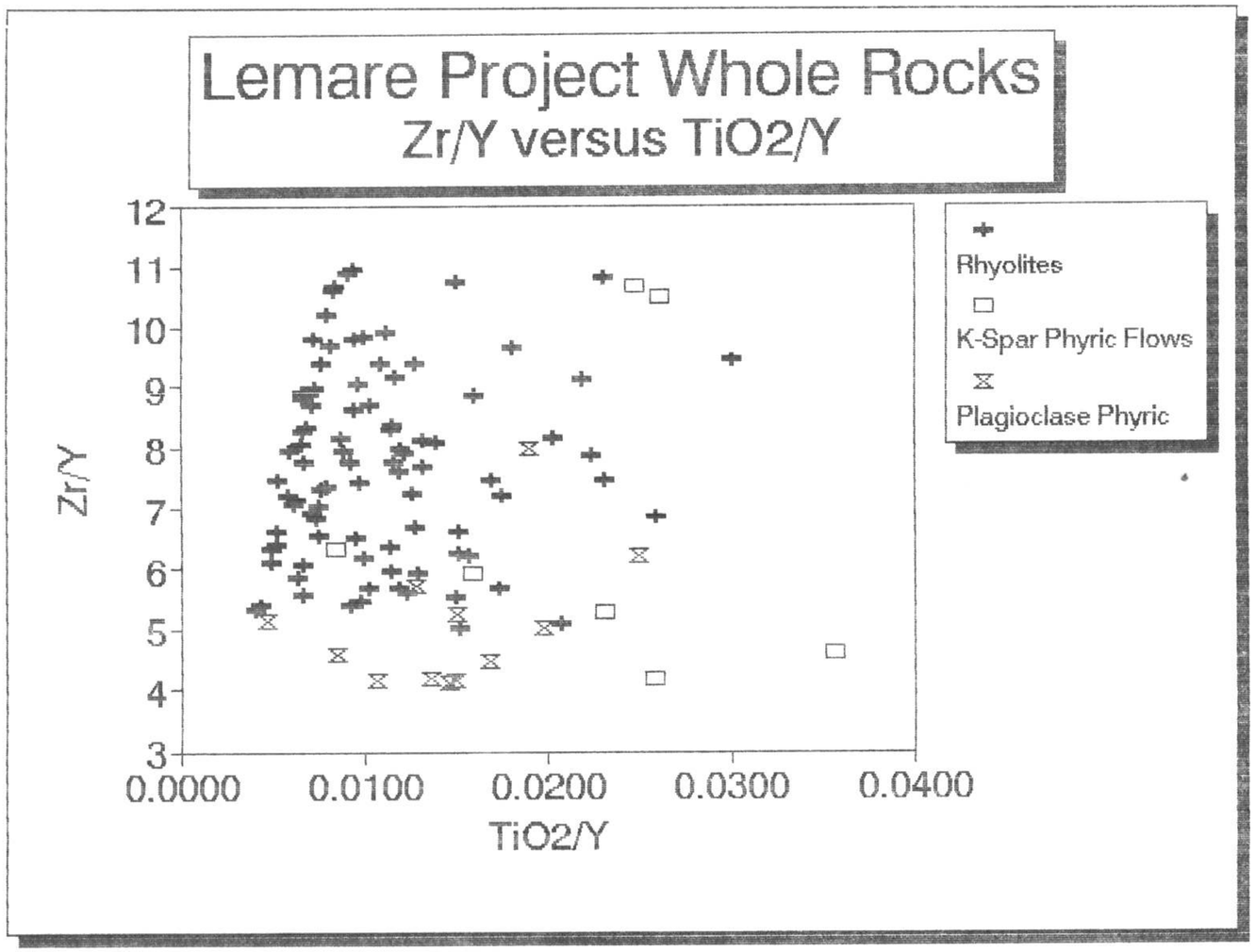
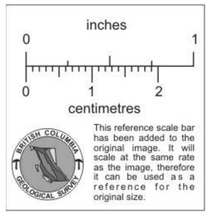

Lemare Project Whole Rocks
Zr/Y versus TiO2/Y
Zr/Y
12
11
10
9
8
7
6
5
4
3
0.0000
0.0100
0.0200
0.0300
0.0400
TiO2/Y
Rhyolites
K-Spar Phyric Flows
Plagioclase Phyric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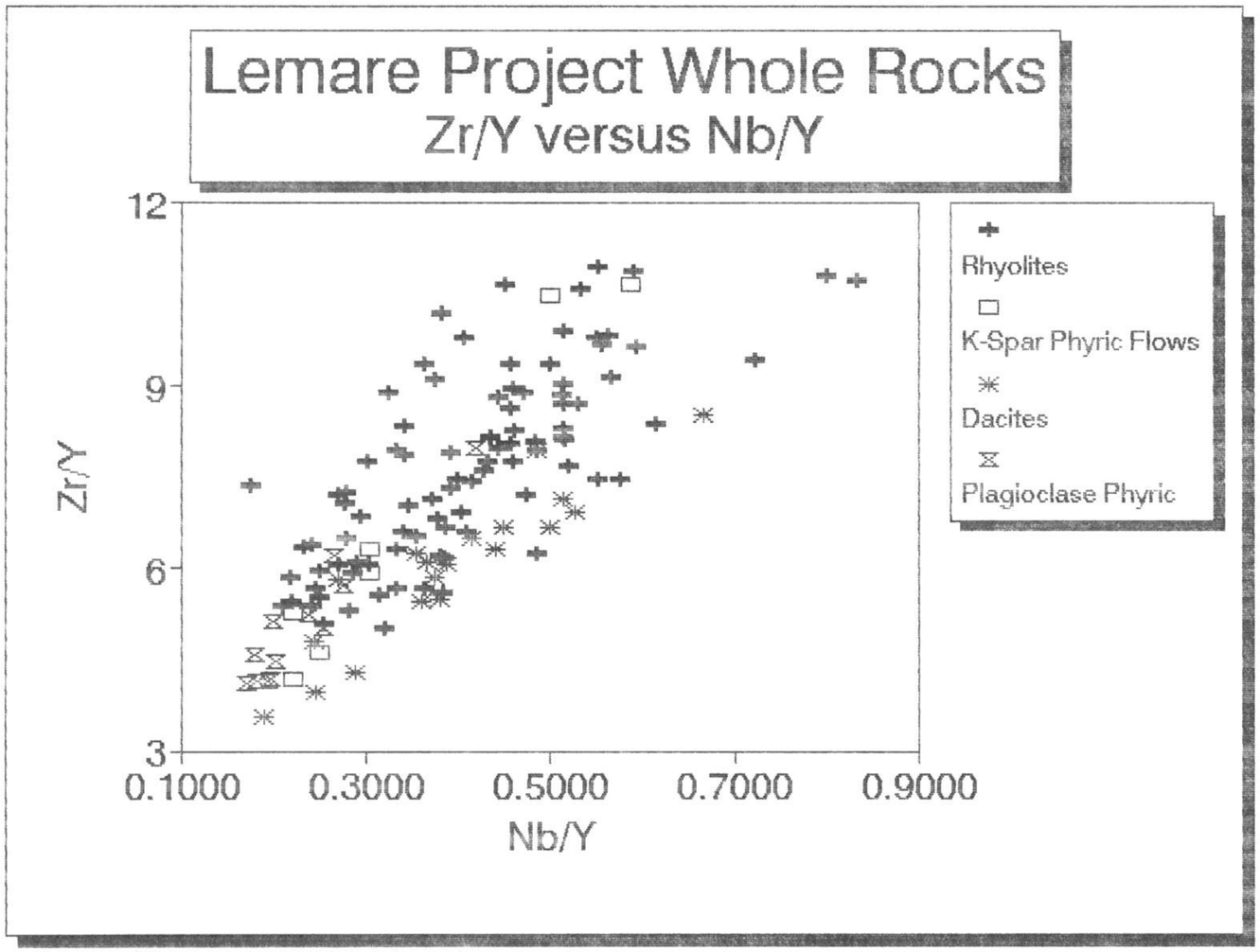
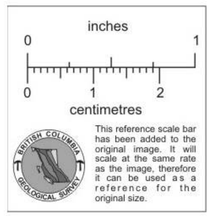

Lemare Project Whole Rocks
Zr/Y versus Nb/Y
Zr/Y
Nb/Y
12
9
6
3
0.1000
0.3000
0.5000
0.7000
0.9000
Rhyolites
K-Spar Phyric Flows
Dacites
Plagioclase Phyric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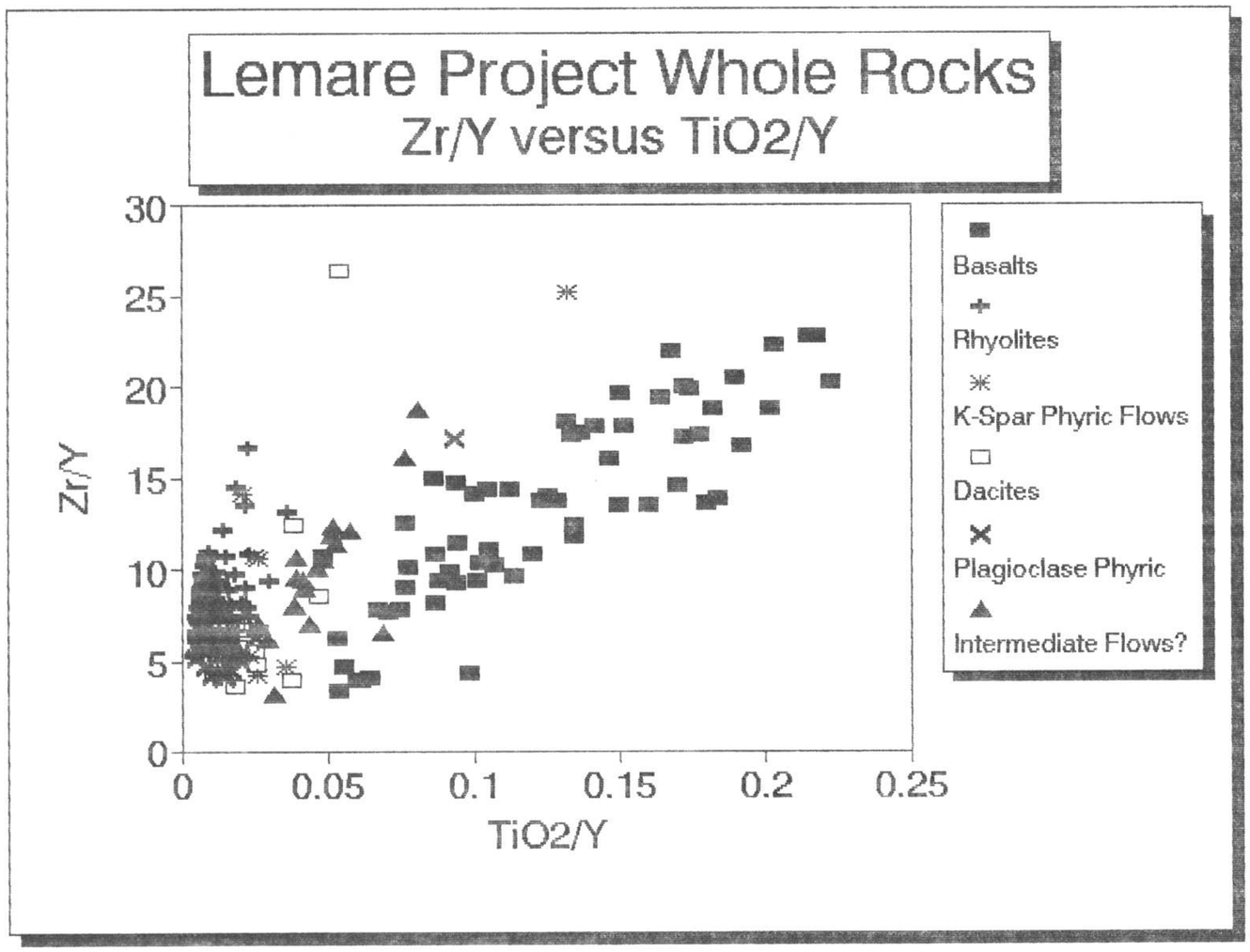
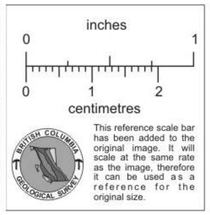

Lemare Project Whole Rocks
Zr/Y versus TiO2/Y
Zr/Y
TiO2/Y
0
5
10
15
20
25
30
0
0.05
0.1
0.15
0.2
0.25
Basalts
Rhyolites
K-Spar Phyric Flows
Dacites
Plagioclase Phyric
Intermediate Flows?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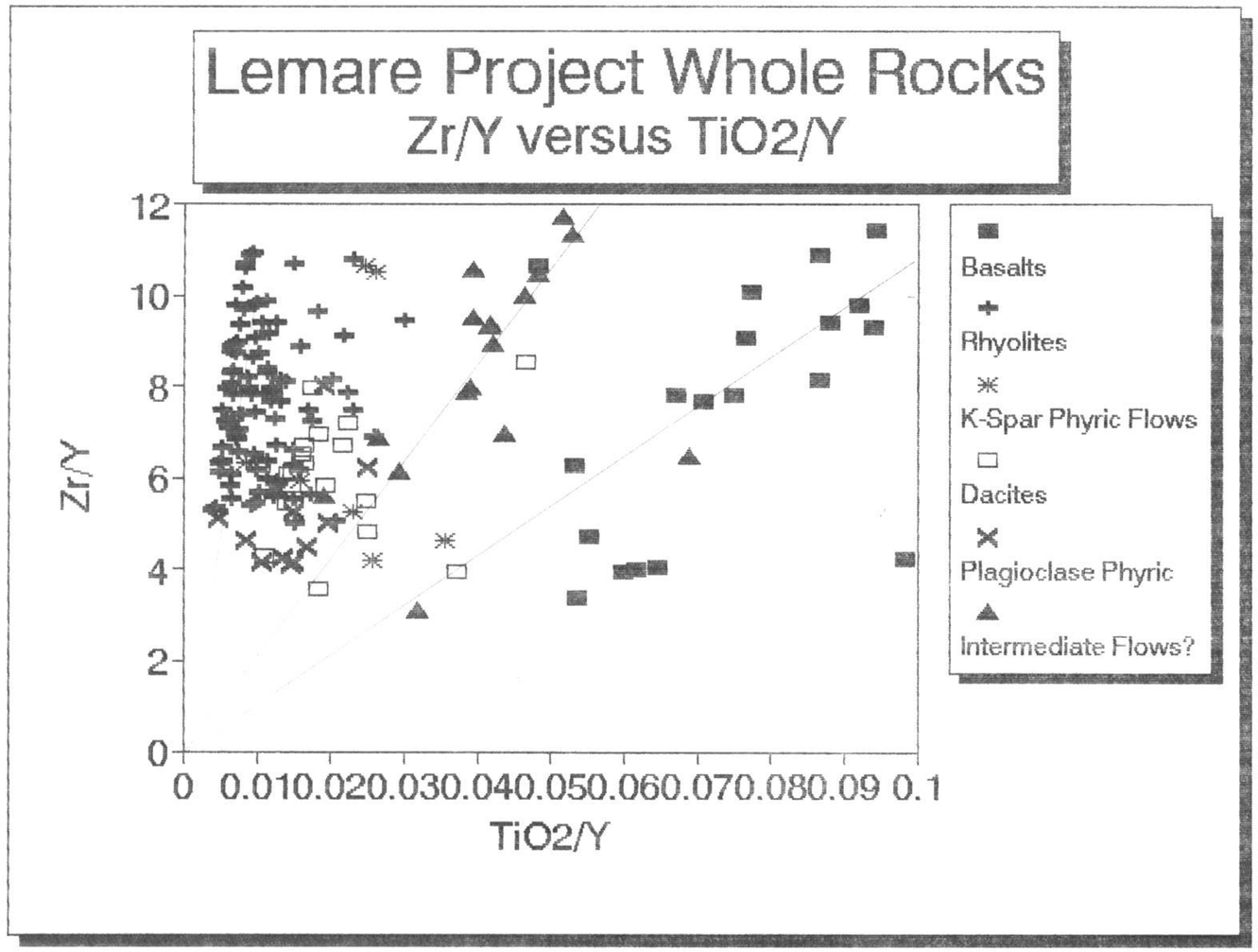
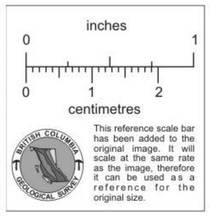

Lemare Project Whole Rocks
Zr/Y versus TiO2/Y
Zr/Y
TiO2/Y
0
2
4
6
8
10
12
0 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1
Basalts
Rhyolites
K-Spar Phyric Flows
Dacites
Plagioclase Phyric
Intermediate Flows?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centimetres
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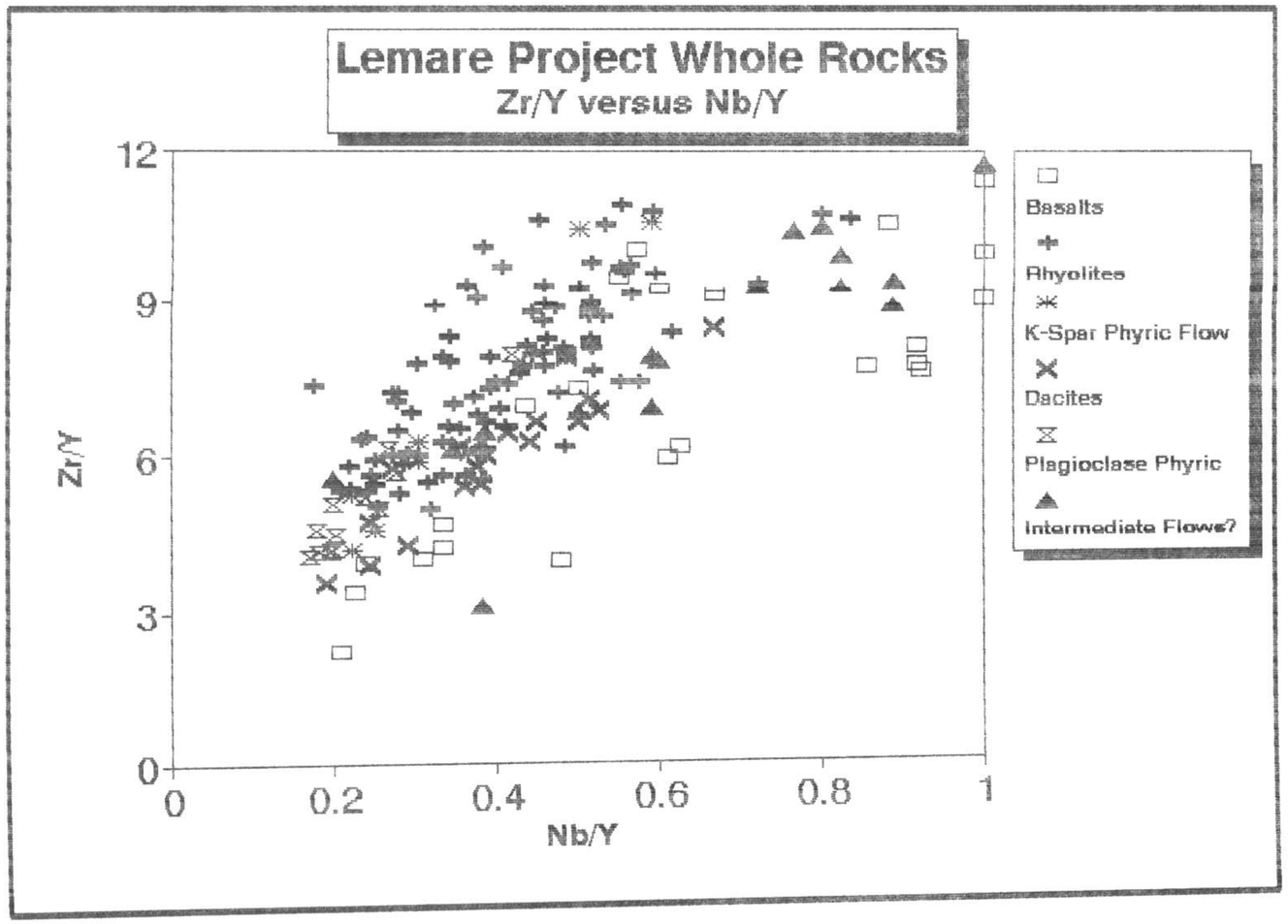
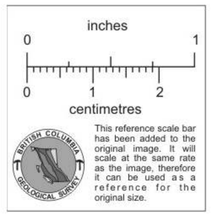

Lemare Project Whole Rocks
Zr/Y versus Nb/Y
Zr/Y
Nb/Y
0
3
6
9
12
0
0.2
0.4
0.6
0.8
1
Basalts
Rhyolites
K-Spar Phyric Flow
Dacites
Plagioclase Phyric
Intermediate Flows?


inches
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centimetres
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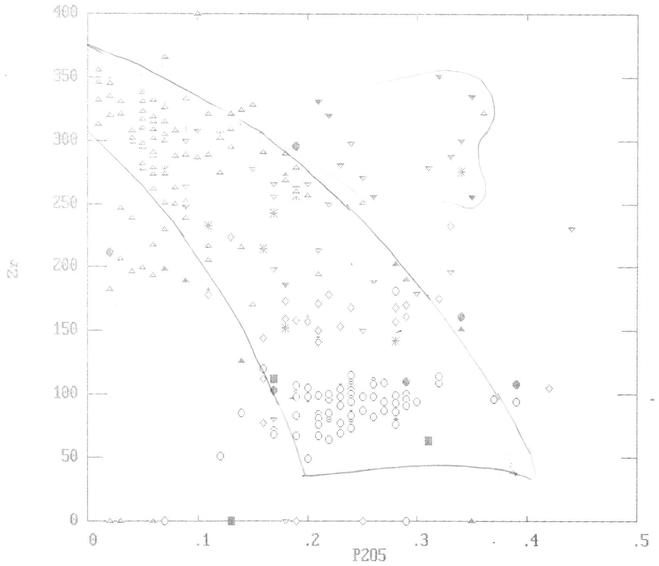

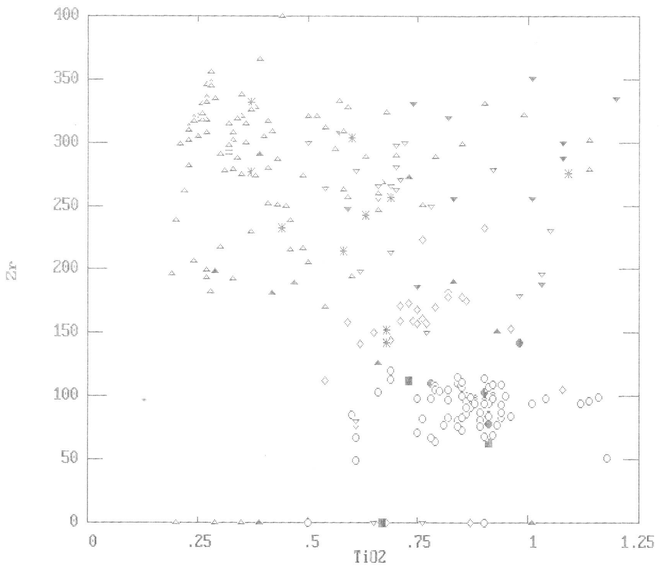

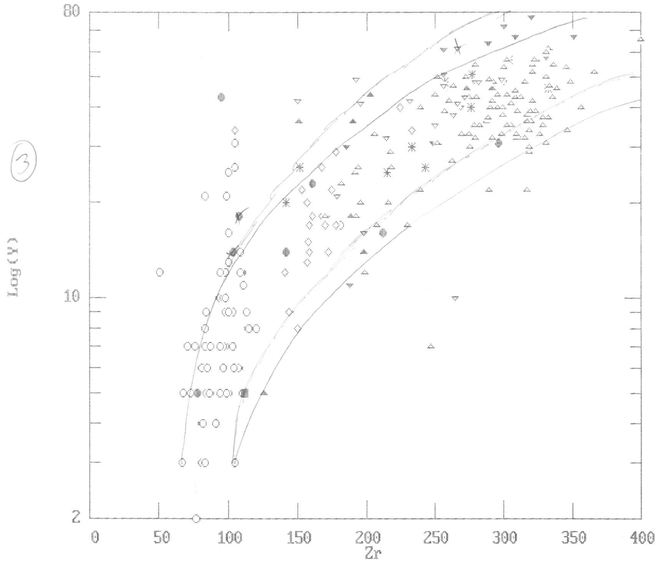

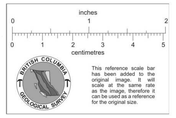

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NEWDISC: Discriminat. Plot Abbreviations

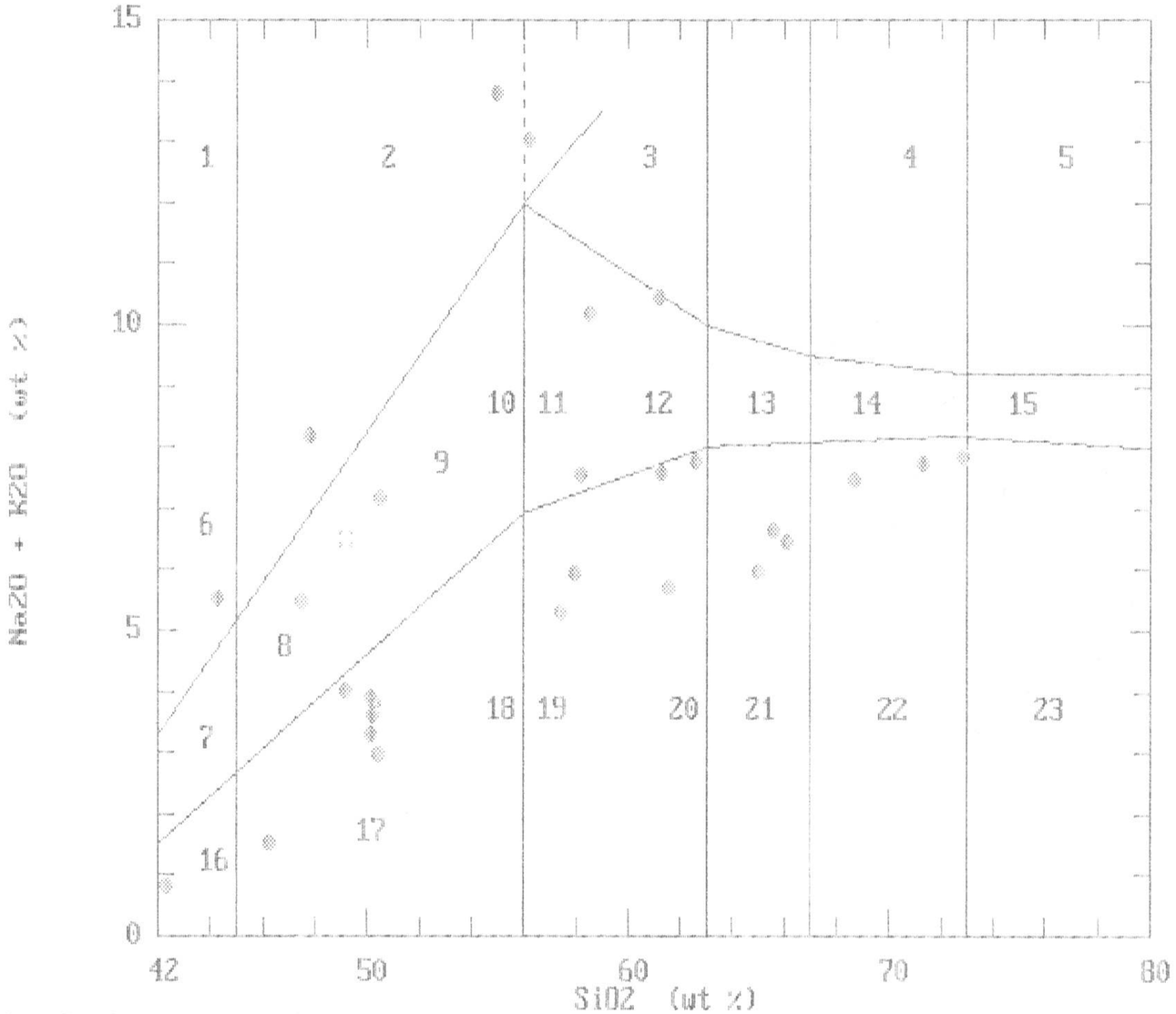
Middleton 1985: figure 3.3.3

1 - Nephelinite
2 - Phonolite
3 - Alkali trachyte
4 - Pantellerite
5 - Comendite
6 - Basanite
7 - Alkali picrite
8 - Alkali olivine basalt
9 - Trachybasalt
10 - Trachyandesite basalt
11 - Trachyandesite
12 - Trachyte
13 - Trachydacite
14 - Trachyrhyolite
15 - Alkali rhyolite
16 - Picrite
17 - Tholeiite basalt
18 - Andesite basalt
19 - Andesite
20 - Andesite dacite
21 - Dacite
22 - Rhyolite dacite
23 - Rhyolite

Middleton 1985: figure 3.3.6

1 - Alkali feldspar Syenite
2 - Alkali feldspar Quartz Syenite
3 - Alkali feldspar Granite
4 - Syenite
5 - Quartz Syenite
6 - Granite
7 - Monzonite
8 - Quartz Monzonite
9 - Monzodiorite
10 - Quartz Monzodiorite
11 - Granodiorite
12 - Diorite and Gabbro
13 - Quartz Diorite
14 - Tonalite

Middlemost 1985 (fig 3.3.3)



Trachy-basalt Hit space bar to see next (or Q to quit)

inches
0 1
0 1 2
centimetres
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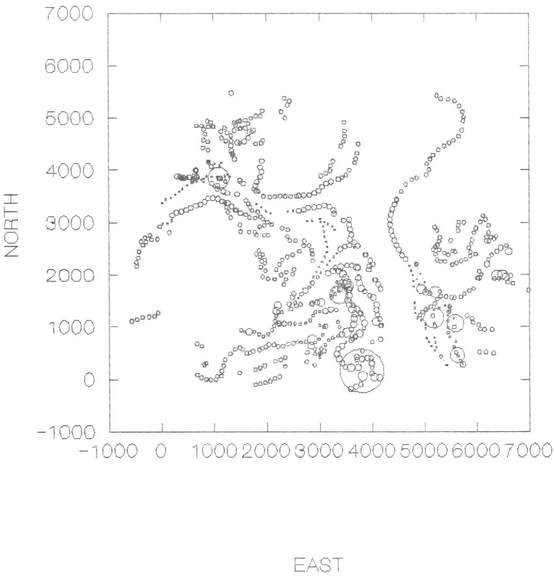
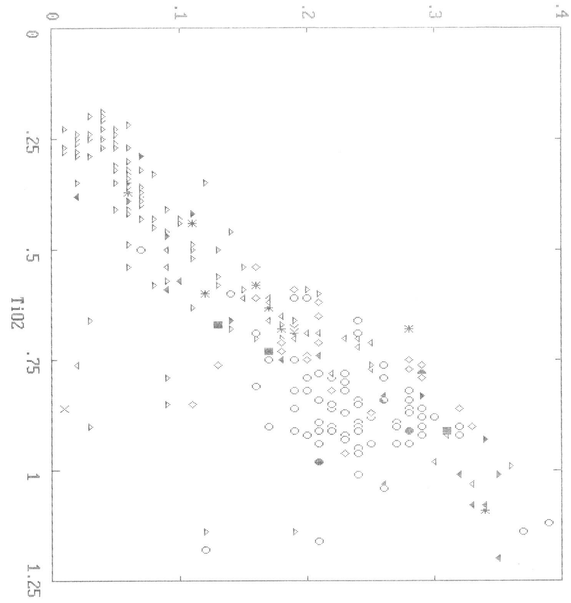
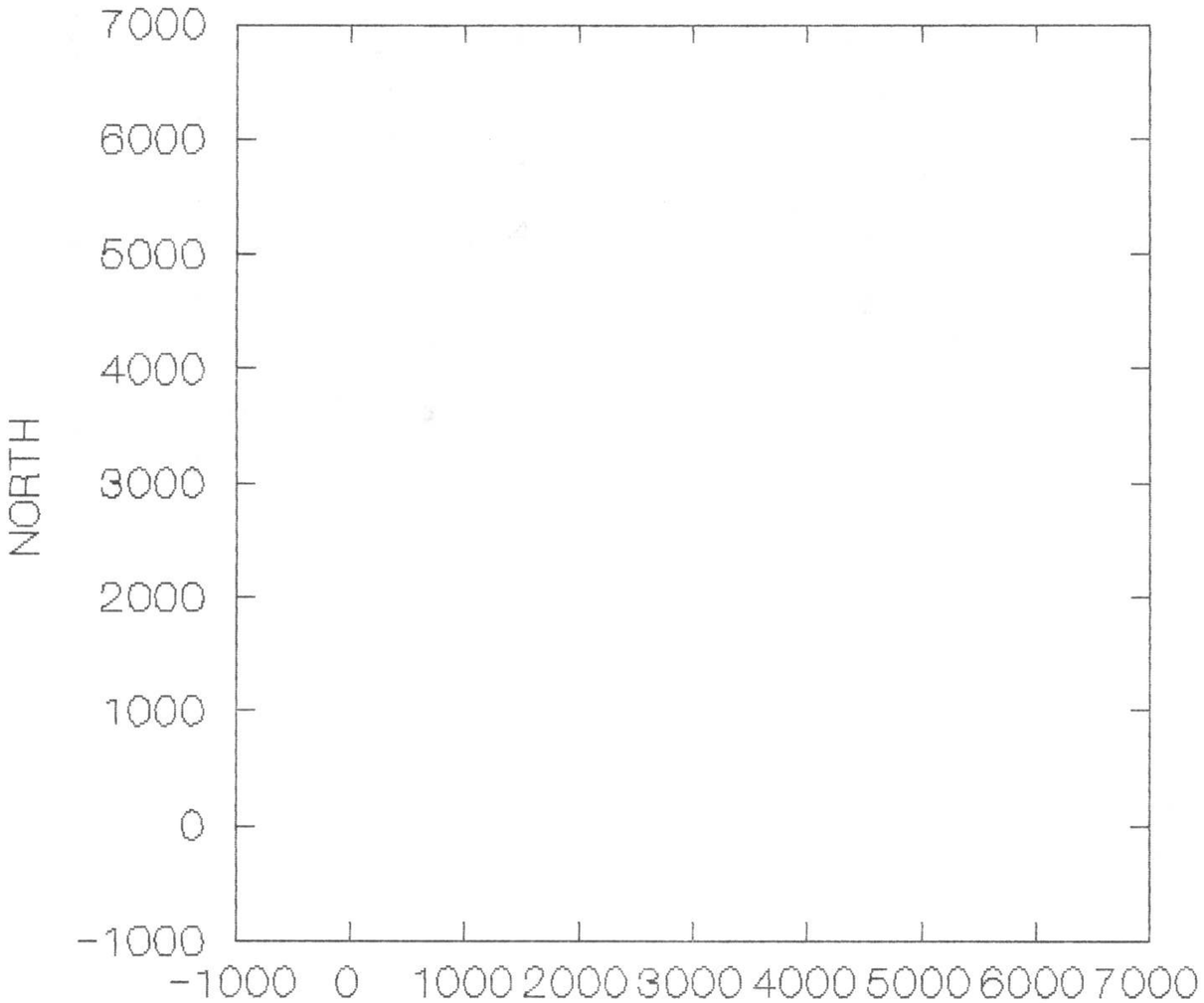
BRITISH COLUMBIA GEOLOGICAL SURVEY

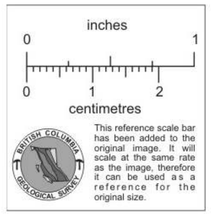

NORTH
EAST
7000
6000
5000
4000
3000
2000
1000
0
-1000
-1000 0 1000 2000 3000 4000 5000 6000 7000

P2O5
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35


TiO2
X
0 .25 .5 .75 1 1.25
0 .1 .2 .3 .4

INCHES
CENTIMETERS


7000
6000
5000
4000
3000
2000
1000
0
-1000
NORTH
-1000 0 1000 2000 3000 4000 5000 6000 7000


inches
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centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

EAST

Rocks to check.

58468
58476
58489 } bad ratios
58495
58503

58543 lo zirconium for ▲
58546 lo ratio (hi Ti?) △
58567 lo ratio ○
58591 (pyroclastic?) lo zirconium
58597 hi ratio ○
58733 hi zirconium for ●
58837 lo ratio △
58855 lo ratio △
58856 lo ratio △
58865 lo ratio, lo ziconium △
58895 hi zirconium ▽
58909 lo ratio △
58910 lo ratio △
58912 lo ratio △
58914 lo ratio △
58923 Lo zirconium ▲
58940 hi ratio
58949 lo zirconium ▽

730
153
883

953
883
70
40
20

903
10

913

NORTHING

MINENTAE	$ SAMPLE	NORTH	EAST	CaO	FE2O3	K2O	MgO	NA2O	SIO2	TIO2	LOI
58469	268	994.5	0.21	11.42	1.85	0.24	2.91	60.85	3.43	5.3	
58476	276	1016.8	908	0.07	2.39	2.71	0.31	1.24	64.1	0.19	4.9
58489	289	1090.6	0.09	3.28	1.21	0.17	3.08	72.03	0.65	0.26	2.8
58495	295	74.5	0.5	2.43	4.23	0.48	3.43	71.38	0.26	1.5	
58501	301	272.9	0.31	9.9	2.74	1.32	3.36	62.89	0.7	2.6	
58503	303	282.1	0.72	16.41	0.51	5.11	2.68	49.03	0.98	6.1	
58505	305	282.2	0.41	20.52	0.44	4.08	2.81	47.55	0.9	6.5	
58506	306	282.9	0.17	7.65	1.51	0.5	3.96	65.6	0.79	4.8	
58507	307	282.9	0.24	8.41	1.36	0.61	3.81	68.15	0.84	4.1	
58537	337	5140	1320	4.71	12.41	0.11	6.21	5.38	47.4	3.5	
58541	341	2060	1810	5.32	10.31	0.56	4.88	2.73	51.47	0.48	
58542	342	3430	4464	0.96	3.78	3.59	0.56	4.24	69.33	0.39	3.1
58543	343	4138	903	0.47	4.44	4.49	1.4	3.4	66.23	0.43	2.4
58544	344	3874	683	0.54	5.76	8.05	0.78	0.14	67.64	0.37	2
58547	347	811	3660	0.67	9.9	4.54	1.32	0.13	66.55	0.63	3.4
58548	348	1256	3759	0.4	5.17	2.24	0.77	3.8	68.51	0.6	3.5
58549	349	1904	4046	0.41	12.27	0.18	3.44	6.13	56.67	0.51	3.6
58553	353	636	2308	4.99	8.64	3.74	6.22	3.26	49.95	1.16	3.5
58567	367	376	1207	0.61	11.32	1.09	7.64	1.91	42.41	1.1	10.2
58572	372	1086	3929	0.38	4.85	4.86	0.8	2.18	72.65	0.49	1.3
58574	374	959	6067	0.49	3.8	5.61	0.52	1.76	67.24	0.37	2.1
58578	378	520	6172	2.24	3.24	1.4	0.14	5.96	71.26	0.49	2.2
58579	380	3813	1492	1.27	7.47	3.93	1.03	3.16	65.8	1.14	1.1
58590	390	3890	3021	0.5	11.73	5.71	1.04	1.98	66.25	0.68	2.5
58591	391	4322	1355	3.57	6.87	2.86	3.43	4.97	57.64	0.68	3.8
58592	392	4560	1332	1.01	10.72	0.76	2.03	5.18	58.75	0.6	3.9
58593	393	5324	2440	0.46	5.9	7.63	0.32	1.34	66.25	0.57	3
58594	394	4937	2993	1.4	7.88	5.51	1.59	2.68	63.08	0.74	1.3
58595	395	4309	1360	1.69	7.67	3.4	1.69	3.07	66.08	0.83	1.7
58597	397	1138	4285	0.52	9.47	1.15	5.48	4.69	49.8	0.58	7.1
58651				0.51	4.08	3.04	0.79	5.66	70.28	0.57	0.5
58710	1260	1405	5385	0.22	2.44	12.54	0.12	2.41	69.99	0.23	1.4
58723		2983	2077	9.71	6.42	7.1	3.4	3.42	46.89	0.78	9.8
58724		278	5731	3.72	13.68	0.2	4.36	11.05	50.02	0.91	3.8
58725		278	5731	5.5	2.03	2.28	0.46	11.82	71.76	0.26	1.2
58729	1272	948.9		0.01	4.93	4.1	0.54	0.18	70.88	1.14	2.8
58737	1276	953.9		0.14	11.46	3.69	2.21	0.17	57.58	0.8	6
58745	1288	100.5		1.77	10.87	0.87	5.99	5.09	48.94	0.9	6
58760	1303	829.7		0.01	0.6	0.45	0.1	0.1	94.25	0.08	3.9
58763	1306	616.1		0.01	8.48	0.07	0.03	0.05	63.05	0.54	8.4
58788	1324	1285	6285	0.02	9.47	1.15	5.48	4.69	49.8	0.58	4
58808	1351	4615	1155	2.09	7.55	3.26	2.25	3.24	64.29	1.01	2
58816	1359	4830	1000	4.19	8.83	3.83	3.33	3.78	56.2	1.03	2.3
58818	1361	2229	5610	1.89	7.49	3.34	2.52	3.79	60.3	1.09	3
58833	1376	2633	6186	0.17	1.33	2.55	0.2	4.98	74.24	0.28	1.4
58838	1381	2736	6471	0.3	2.63	1.68	0.19	3.74	73.29	0.27	3.1
58839	2000	-2000	-1000	6.64	9.25	0.46	5.72	4.88	50.06	0.84	3.6
58842	1384	2712	1181	0.81	9.22	1.78	5.22	3.59	51.46	0.84	2.3
58854	1115	3800	1500	1.22	8.08	4.55	1.11	2.57	64.73	0.73	1.9
58856	1120	3800	1110	0.42	2.92	4.32	0.22	4.44	72.1	0.28	0.5
58857	1010	3860	3415	1.61	9.03	0.15	3.73	5.99	58.03	1.12	3
58860	1142	545	3800	8.47	7.37	0.64	3.62	4.12	50.25	0.79	7.9
58861	1152	35	4150	2.45	5.58	2.33	1.49	4.86	64.12	0.58	2.9

				CaO	Fe2O3	K2O	MgO	NA2O	SiO2	TiO2	LOI
58862	13	3827	3351	1.26	7.31	0.12	1.05	6.46	67.32	0.92	1.2
58863	1395	335	2750	6.85	9.83	0.48	7.57	4.11	49.46	1.26	4
58865	1397	375	2260	0.41	1.93	2.65	0.18	4.84	74.95	0.28	0.9
58895	1427	1580	5310	2.63	5.13	4.74	2.89	2.24	62.83	0.76	4.5
58897	1431	1562	5690	4.05	9.88	2.21	1.25	3.21	59.93	1.03	4.3
58906	1438	1826	6687	2.7	8.05	2.53	2.77	4.64	59.32	1.57	2.8
58908	1440	1315	6000	1.01	10.79	0.17	3.26	5.07	55.03	0.75	3
58909	1441	1390	5475	0.21	4.29	5.5	0.21	1.8	72.07	0.29	1.6
58910	1442	1385	5465	0.06	3.37	4.19	0.12	2.08	77.4	0.29	1.9
58911	1443	1005	5195	2.37	5.05	2.91	0.75	4.15	67.42	0.37	2.5
58912	1444	2110	5355	0.26	2.78	2.97	0.19	3.99	72.51	0.28	2.3
58913		3745	965	0.94	8.75	5.4	0.82	1.69	65.54	0.69	2.1
58914		4175	1920	0.27	3.43	6.02	0.17	2.95	72.17	0.27	0.8
58915		3858	530	6.55	5	8.59	0.38	0.34	68.42	0.25	2.4
58916		3914	356	0.72	3.44	6.83	0.27	1.75	70.51	0.27	2.3
58917	1445	3855	470	0.29	5.66	7.21	0.51	0.16	70.97	0.32	2.4
58920	1448	4545	895	0.92	6.93	4.56	1.43	1.62	59.12	0.83	11.6
58921	1451	4780	810	1.39	10.5	5.58	2.44	0.61	61.22	0.92	2.4
58926	1454	4520	1500	1.71	9.88	0.14	2.78	4.89	61.93	1.08	2.3
58927	1455	4800	1520	1.57	6.71	0.12	2.5	5.4	65.66	0.82	2.4
58928	1456	4730	1725	0.26	5.58	0.08	1.37	6.2	70.6	0.38	1.6
58929	1457	4505	1800	0.94	8.42	2.45	1.8	4.09	64.01	1.08	2.2
58930	1458	4925	1475	1.78	8.95	0.1	3.31	6.74	57.63	1.2	2.6
58940	397.1	1138	-473	6.82	12.3	0.6	2.6	0.1	43.02	1.68	16.7
58948	1332.1	1715	5295	4.72	6.47	1.83	1.99	4.88	61.87	1.03	2.2
58949	1332.1	2715	5295	10.81	4.82	1.48	1.49	3.29	56	0.77	9.6
58950	1334	2720	5345	1.4	2.68	2.53	0.96	3.75	73.63	0.46	3
58951	1001	3640	1765	3.94	6.08	4.48	2.54	2.71	59.31	0.59	4
58952	1002	3780	1840	5.43	3.76	7.31	0.42	1.78	68.19	0.25	1
58003	1003	3500	1945	0.32	4.27	7.8	0.5	1.97	68.48	0.27	1
58004	1004	3485	2063	4.07	9.03	2.39	5.08	4.07	52.68	0.85	3.4
58005	1005	3495	2160	6.68	10.33	2.88	6.23	3.88	46.67	0.52	2.6
58006	1006	3505	2260	0.49	6.21	9.21	1.1	0.64	63.74	0.35	2.7
58007	1007	3505	2350	4.1	7.67	3.81	2.38	2.14	60.29	0.59	5
58008	1008	3495	2455	0.5	5.37	7.98	0.55	0.92	68.56	0.33	2
58009	1009	3500	2560	7.1	8.1	5.91	1.65	5.77	4.11	50.11	3.94
58011	1011	3905	3495	2.58	7.15	0.33	1.97	5.44	65.5	0.76	2.6
58012	1012	4000	3560	1.75	16.32	5.88	5.12	2.23	46.16	0.94	3.6
58013	1013	4140	3660	0.96	7.61	6.3	2.16	1.25	64.47	0.71	1.9
58014	1014	4115	3665	0.92	7.18	6.89	2.42	1.71	62.25	0.72	2.1
58015	1015	4320	3705	0.54	7.65	6.94	2.07	0.96	63.02	0.7	3.2
58016	1016	4500	3730	3.42	4.4	3.23	0.29	4.15	65.74	0.5	4.2
58017	1017	3420	3615	2.68	8.87	0.99	4.16	4.27	56.82	0.9	5
58018	1018	3360	1650	4.48	4.69	1.77	1.57	2.77	64.43	0.69	6.6
58019	1019	3290	1600	1.75	3.18	4.37	0.45	3.93	70.1	0.25	1.6
58020	1020	3230	1730	1.12	3.28	6.8	0.27	1.21	61.56	0.21	2
58021	1021	3200	1835	0.22	3.78	4.73	0.42	3.05	71.27	0.25	1.6
58022	1022	3110	1885	0.59	4.4	8.54	0.34	1.33	68.6	0.26	1.2
58023	1023	3085	1785	5.54	4.36	8.76	0.47	0.45	63.62	0.22	1.1
58024	1024	3095	1680	11.2	10.72	0.32	2.79	1.6	50.06	0.6	7.7
58025	1025	3150	1605	3.73	6.79	3.71	3.61	3.45	57.38	0.73	3.8
58026	1026	3385	1210	0.78	3.66	4.68	0.59	2.02	73.84	0.3	1.6
58027	1027	3295	1245	1.27	7.22	3.24	0.78	3.61	66.71	0.67	2.3
58028	1028	3135	1270	2.75	8.39	0.45	2.98	5.89	61.33	0.9	7
58029	1029	3095	1320	5.91	9.47	3.54	6.22	2.2	45.17	0.75	8.6
58030	1030	3235	1425	0.71	4.1	7.19	2.1	0.43	64.31	0.3	5.9
58031	1031	2960	1495	6.75	9.66	4.8	3.68	2.82	49.44	0.78	6.4
58032	1032	2930	1505	5.99	9.10	1.4	7.63	4.11	48.76	0.82	5
58033	1033	2820	1670	6.62	7.75	3.81	3.82	3.32	51.19	0.75	6.6
58034	1034	2815	1780	7.85	8.57	1.51	5.26	4.23	48.77	0.82	5.4

75035	1035	2770	1810	5.32	8.2	2.16	4.37	3.41	46.5	0.66	7.7
75036	1036	2765	1960	6.05	10.4	1.15	6.24	4.5	49.68	0.91	3.4
75037	1037	2760	2040	5.24	4.39	6.01	0.43	1.25	70.37	0.27	2.1
75038	1038	5430	5240	2.96	3.25	1.36	0.39	4.46	70.21	0.5	3.2
75039	1039	5370	5325	2.69	4.11	2.05	0.25	4.99	68.72	0.52	2.8
75040	1040	5355	5465	6.97	10.44	0.57	6.11	5.04	48.26	0.8	5
75041	1041	5325	5585	4.75	6.96	2.13	4.65	5.15	55.43	0.69	3.4
75042	1042	5230	5675	14.62	9.37	0.13	1.72	2.52	42.61	0.89	8.5
75043	1043	5120	5735	6.31	9.45	1.52	5.89	4.15	49.71	0.95	3.9
75044	1044	5020	5755	6.91	8.43	1.33	5.33	4.76	50.05	0.9	5.1
75045	1045	4940	5750	6.79	8.9	1.04	6.15	4.54	49.76	0.86	4.9
75046	1046	4760	5725	3.77	4.22	1.91	1.85	5.63	58.97	0.41	4.7
75047	1047	4645	5660	3.02	3.75	1.06	0.41	6.03	68.27	0.33	2.7
75048	1048	4570	5560	4.12	3.48	1.17	0.44	5.61	66.63	0.33	3.7
75049	1049	4520	5485	2.1	4.16	1.78	1.42	6.4	66.07	0.4	1.6
75050	1050	4460	5380	3.83	5.21	1.44	0.98	4.31	65.54	0.38	3.9
75051	1051	4390	5275	4.07	10.37	1.67	5.45	4	50.76	0.7	2.2
75052	1052	4280	5170	4.23	10.64	0.58	5.21	5.97	47.4	0.93	7.1

75053	1053	4210	5115	8.05	9.8	1.35	5.13	3.94	50.04	0.92	2.2
75054	1054	4120	5050	5.03	9.04	1.82	5.22	5.29	49.62	0.89	4.9
75055	1055	4010	5095	7.36	9.97	0.62	5.25	5.3	48.22	0.88	4.5
75056	1056	3910	5040	2.22	6.66	1.24	1.32	7.16	62.3	0.9	2.1
75057	1057	3850	4855	1.6	3.86	1.97	1.31	6.23	67.6	0.36	1.7
75058	1058	3815	4760	0.86	2.43	0.99	0.12	5.6	73.14	0.4	1
75059	1059	3725	4645	1.21	3.78	1.81	0.93	6.61	68.06	0.43	1.2
75060	1060	3590	4525	2.43	4.69	2.18	0.77	5.2	66.67	0.43	2.6
75061	1061	3365	4325	2.18	4.4	1.03	0.29	9.17	67.24	0.4	1.1
75062	1062	3910	2015	0.29	5.75	8.51	0.51	1.44	65.81	0.38	1.4
75063	1063	2970	2095	0.41	8.73	11	1.35	0.63	55.92	0.41	4.9
75064	1064	2930	1960	8.29	10.81	0.85	6.43	2.84	47.91	0.91	4
75065	1065	2920	1875	1.07	5.45	6.7	0.61	0.11	66.25	0.29	1.7
75066	1066	2895	2295	0.3	6.89	9.26	0.91	0.37	64.9	0.36	1
75067	1067	2860	2400	7.42	8.96	2.65	4.37	3.7	47.6	0.82	6.4
75068	1068	2740	2395	1.75	4.42	2.72	0.74	4.56	67.98	0.44	2.1
75069	1069	2665	2440	0.98	7.62	5.3	0.88	2.65	63.36	0.61	2.6
75070	1070	2640	2545	3.4	4.65	5.45	0.75	2.82	68.21	0.39	1.6
75071	1071	2650	2705	0.57	8.03	2.43	1.14	4.07	65.09	0.66	3.5
75072	1072	2570	2795	0.03	6.68	4.43	0.99	0.91	69.13	0.45	2.8
75084	1084	2230	1965	2.45	2.51	3.06	0.92	3.1	57.87	0.35	3.3
75087	1087	2070	1855	1.54	1.83	4.57	0.15	4.57	71.2	0.2	1.2
75098	1098	2015	2485	5.34	9.17	1.58	4.52	5.43	53.23	0.87	2.2
75107	1107	1595	3940	6.62	5	0.21	1.57	6	60.94	0.69	1.9
75112	1112	1145	4125	0.09	5.88	4.05	0.35	0.15	68.49	0.76	4.6
75116	1116	4210	1400	1.85	10.53	5.62	2.75	1.67	58.06	1.01	2
75126	1126	3605	1810	0.53	4.31	8.94	0.46	0.86	69.01	0.27	1
75128	1128	3775	1820	0.45	3.74	2.35	0.47	5.71	71.35	0.29	0.3
75133	1133	3540	1445	6.09	7.76	2.11	3	2.21	56.04	0.72	6.7
75136	1136	3645	1075	0.11	1.67	2.69	0.12	0.06	44.64	0.3	28
75137	1137	3705	1075	0.46	11.37	4.52	1.55	0.45	66.24	0.68	2.2
75146	1146	410	3895	7.64	9.48	0.37	5.12	3.23	49.43	0.9	5.7
75164	1164	1780	3555	0.57	6.01	0.24	0.91	5.7	69.68	0.63	1.7
75165	1165	1735	3535	4.68	8.13	2.91	4.1	4.74	53.26	0.91	3.7

75166	1166	1800	3490	0.45	7.87	1.1	0.7	4.66	67.66	0.59	4
75177	1177	1400	2555	0.29	4.25	5.34	0.25	0.07	71.93	0.41	2.9
75178	1178	1340	2455	7.06	7.36	2.06	3.41	1.61	54.51	0.69	8.6
75181	1181	1630	2505	1.98	3.3	4.18	1.26	3.99	67.85	0.47	1.9
75182	1182	1640	2555	4.48	7.62	2.53	4.88	2.68	50.36	0.81	4.9
75186	1186	1410	2205	3.94	6.09	5.55	3	1.97	57.93	0.66	3.8
75219	1219	230.8	1610	1.41	9.9	0.28	0.25	5.75	73.19	0.9	3.3
75219	1219	270.4	1610	0.28	10.29	0.77	3.63	3.02	59.33	1.79	4.5
75252	1252	701	3488	0.71	2.28	1.69	0.55	9.99	71.78	0.32	2.6
75275	1275	1300	3097	1.07	6.88	3.92	2.63	2.77	61.87	0.85	3.3
75276	1276	1332	3201	6.25	2.41	3.69	0.12	3.69	71.4	0.42	0.4
75316	216	578	2899	6.92	7.41	1.56	3.83	3.65	52.31	0.73	3.9
75335	235	2546	3472	3.11	12.52	0.54	7.81	3.46	46.79	1	7
75351	51	2039	194	10.97	7.58	2.16	3.79	4.9	56.59	0.82	3.3
75352	52	2984	117	5.53	9.1	2.29	5.51	3.37	50.02	0.92	5
75353	53	2978	22	10.76	7.6	0.67	1.5	2.96	57.19	0.54	5.1
75354	54	3222	2499	0.45	6.56	4.49	1.08	1.62	70.86	0.31	2.2
75355	55	3207	2604	4.94	10.45	0.25	6.38	4.58	50.68	0.74	3.3
75356	56	3173	2077	2.22	12.91	3.48	2.47	2.35	58.79	0.68	2.4
75357	57	3218	1983	1.15	5.51	7.25	0.81	0.18	67.96	0.43	2.1
75358	58	3288	1909	0.32	4.65	8.36	0.51	0.19	69.91	0.26	1.9
75359	59	3356	1806	0.28	3.03	4.49	0.13	2.68	72.01	0.24	1.9
75360	60	3754	1249	0.31	0.12	0.41	0.03	0.21	42.75	0.82	11.7
75361	61	3824	1157	0.38	5.78	7.29	0.22	0.84	66.32	0.69	3.5
75362	62	3868	1067	0.45	8.78	6.21	0.95	0.39	64.66	0.75	2.7
75363	63	3863	967	0.86	7.64	7.13	0.85	0.81	65.45	0.66	2.3
75364	64	3887	867	0.4	10.84	5.18	1.19	1.24	62.91	0.7	2.1
75365	65	3822	767	4.47	8.68	3.86	3.58	1.64	59.21	0.61	4
75366	66	3799	674	4.43	4.65	7.21	0.61	0.12	63.32	0.32	3.5
75367	67	3764	579	2.36	10.05	3.21	2.02	2.96	59.86	0.76	3.2
75368	68	3717	491	1.16	11.04	5.79	1.41	0.9	63.46	0.62	1.6
75369	69	3646	402	6.2	9.94	1.99	5.6	3.67	50.84	0.9	3.8
75370	70	3591	345	8.1	8.79	3.68	4.29	3.31	49.91	0.79	2.8
75371	71	3529	264	2.97	7.7	4.64	3.26	2.89	57.36	0.82	4.5
75372	72	3468	180	1.59	8.2	1.5	3.81	3.29	65.78	0.61	3.4
75373	73	3443	87	1.23	8.79	5.21	5.73	2.59	49.28	0.8	5.9
75374	74	3366	16	4.08	10.35	2.98	5.12	3.89	49.79	0.87	5.8
75375	75	3836	806	0.42	7.29	5.38	0.72	0.63	66.56	0.36	1.9
75376	76	3772	808	0.46	6.25	4.8	1.43	2.15	67.08	0.58	2.2
75377	77	1051	6017	0.03	10.23	1.1	6.48	3.89	55.69	1.04	4
75378	78	969	5021	9.74	9.65	0.17	1.88	6.22	48.26	0.91	6.4
75379	79	784	5036	6.13	6.74	0.14	2.93	4.22	58.75	0.75	4
75380	80	712	5079	5.72	9.9	1.2	6.72	3.75	49.05	0.76	3.4
75381	81	639	5132	4.36	11.41	1.95	5.85	4.55	49.33	0.91	4.8
75382	82	354	5194	8.07	11.1	1.48	6.89	4.33	48.44	0.86	4.4
75383	83	1132	4940	1.15	2.48	2.51	0.24	4.62	72.61	0.22	1.6
75384	84	1168	4862	3.15	7.53	2.56	4.63	4.66	56.57	0.71	3.5
75385	85	1261	4824	2.16	2.46	6.47	0.23	1.72	70.55	0.2	2.5
75386	86	1357	4813	0.72	2.73	4.84	0.18	4.74	72.46	0.23	1.7
75387	87	1458	4807	0.46	2.88	2.21	0.19	3.92	74.05	0.24	2.4
75388	88	1772	4793	0.47	3.52	3.7	0.23	1.42	74.95	0.27	2.7
75389	89	1875	4788	0.17	2.52	2.65	0.26	1.94	74.43	0.26	3.4
75390	90	1994	4773	5.4	9.47	2.02	5.45	4.75	51.32	0.88	3.8
75391	91	2082	4743	6.68	9.41	1.14	6.18	5	51.13	0.86	3.7
75392	92	2176	4706	13.04	9.05	0.62	3.61	2.06	46.64	0.76	5
75423	123	1408	3631	0.1	4.6	0.07	0.15	0.05	86.71	0.3	3
75431	131	752	3590	6.99	7.99	2.17	6.11	2.66	46.65	0.67	4.1
75442	142	3338	4421	0.39	4.04	2.68	0.55	5.7	70.45	0.29	0.6
75451	1	1725	4147	6.44	11.29	1.38	4.44	4.4	51.5	1.12	2.5
75452	2	1815	4103	6.45	11.27	1.06	4.5	4.31	51.68	1.14	2.2

75454	4	2105	3922	5.25	9.45	0.19	5.56	5.2	51.28	0.87	4
75455	5	2511	2606	1.62	1	0.07	3.06	5.55	57.78	1.08	3.3
75456	6	3518	2697	0.9	6.51	2.23	1.2	2.86	71.23	0.6

Sample Name	Rock Type	Symbol	Colour
75045			7
75051			7
75451			7
75035			7
75476			7
75009			7
75369			7
75032			7
75178			7
75044			7
75425			7
75029			7
75165			7
75373			7
75055			7
75033			7
75028			7
75067			7
58860			7
58541			7
58537			7
75024			7
75004			7
75012			7
75462			7
75053			7
75493			7
75352			7
75351			7
58940			7
58597			7
75469			7
58553			7
58863			7
58567			7
75031			7
75465			7
58842			7
75043			7
75201			7
75464			7
75453			7
75377			7
75452			7
58780			7
75390			7
75454			7
75457			7
75492			7
75052			7
75474			7
75291			7
75292			7

75370			7
75475			7
75498			7
75461			7
75182			7
75036			7
75146			7
75135			7
75473			7
75360			7
75378			7
75380			7
75335			7
75054			7
75040			7
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75005			7
75374			7
75392			7
75042			7
75355			7
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58723			7
58723			7
58468			7
58724			7
75468			7
58503			7
58745			7
58476			7
75431			7
75316			7
75064			7
58856			7
75011			7
58917			7
75358			7
75357			7
58572			7
75386			7
75060			7
75058			7
58495			7
75354			7
75048			7
75019			7
75062			7
75007			7
75276			7
75366			7
75021			7
75481			7
58501			7
58546			7
75056			7
75046			7
58837			7
75480			7
75047			7

MH 141

75027			7
75483			7
75049			7
58833			7
75038			7
75375			7
75020			7
75006			7
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75177			7
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75488			7
58578			7
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75059			7
58855			7
75066			7
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75486			7
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58725			7
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75010			7
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58631			7
75484			7
75479			7
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75023			7
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75385			7
75002			7
75383			7
75456			7

75026			7
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75003			7
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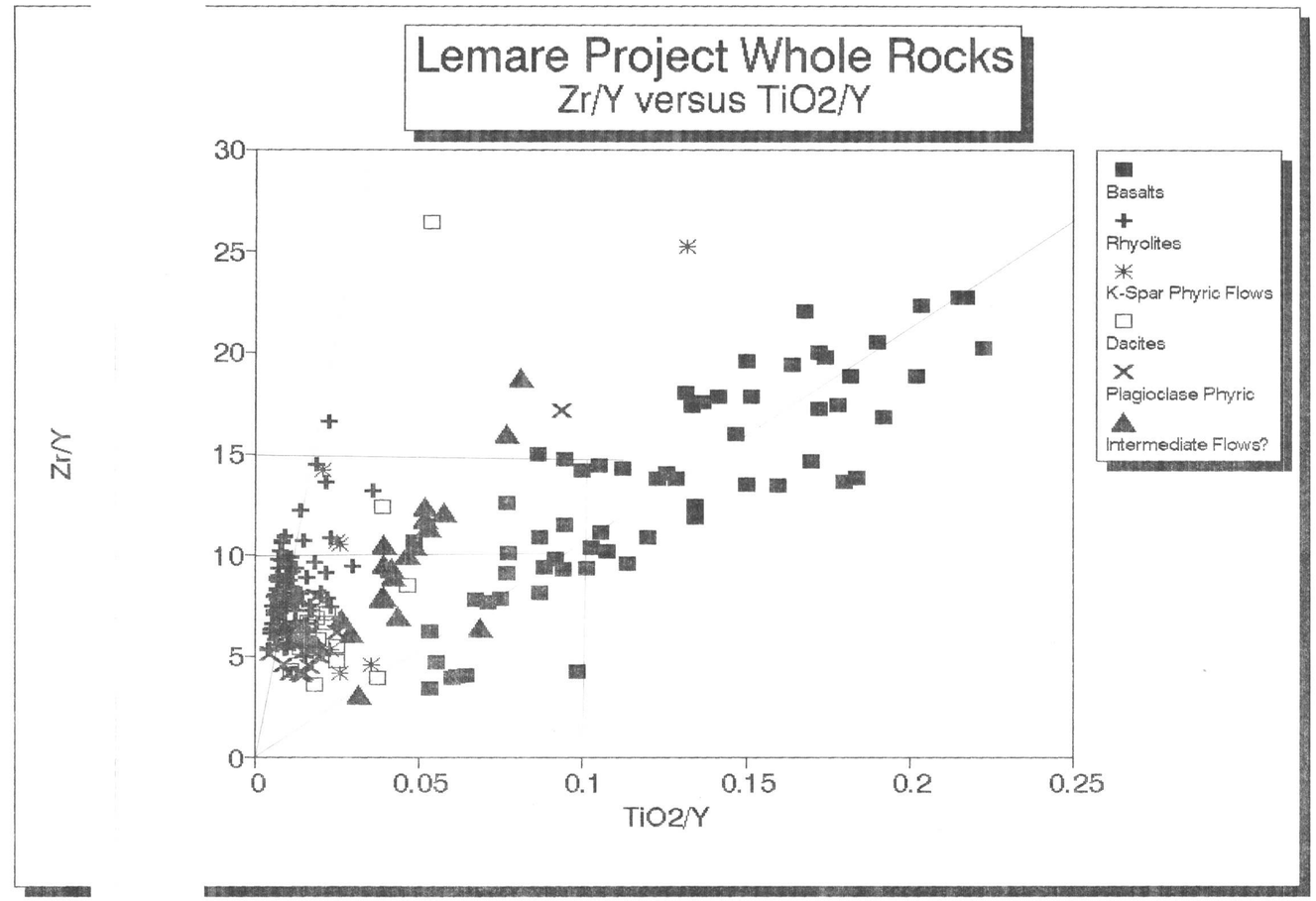
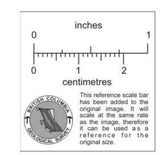

Lemare Project Whole Rocks
Zr/Y versus TiO2/Y
Zr/Y
TiO2/Y
0
5
10
15
20
25
30
0
0.05
0.1
0.15
0.2
0.25
Basalts
Rhyolites
K-Spar Phyric Flows
Dacites
Plagioclase Phyric
Intermediate Flows?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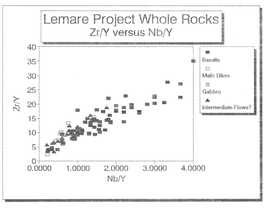
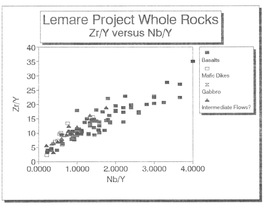

Lemare Project Whole Rocks
Zr/Y versus Nb/Y
Zr/Y
Nb/Y
0.0000
1.0000
2.0000
3.0000
4.0000
0
5
10
15
20
25
30
35
40
Basalts
Mafic Dikes
Gabbro
Intermediate Flows?


Lemare Project Whole Rocks
Zr/Y versus Nb/Y
Zr/Y
Nb/Y
0.0000
1.0000
2.0000
3.0000
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5
10
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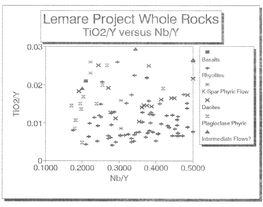
Basalts
Mafic Dikes
Gabbro
Intermediate Flows?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TiO2/Y versus Nb/Y
TiO2/Y
Nb/Y
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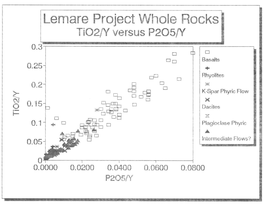
0.2000
0.3000
0.4000
0.5000
0
0.01
0.02
0.03
Basalts
Rhyolites
K-Spar Phyric Flow
Dacites
Plagioclase Phyric
Intermediate Flows?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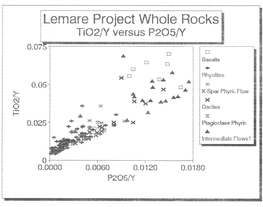
TiO2/Y versus P2O5/Y
TiO2/Y
P2O5/Y
0.0000
0.0200
0.0400
0.0600
0.0800
0
0.05
0.1
0.15
0.2
0.25
0.3
Basalts
Rhyolites
K-Spar Phyric Flow
Dacites
Plagioclase Phyric
Intermediate Flows?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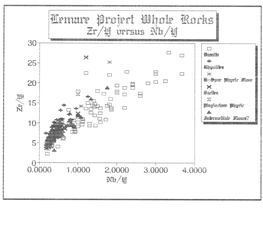
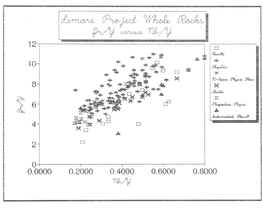
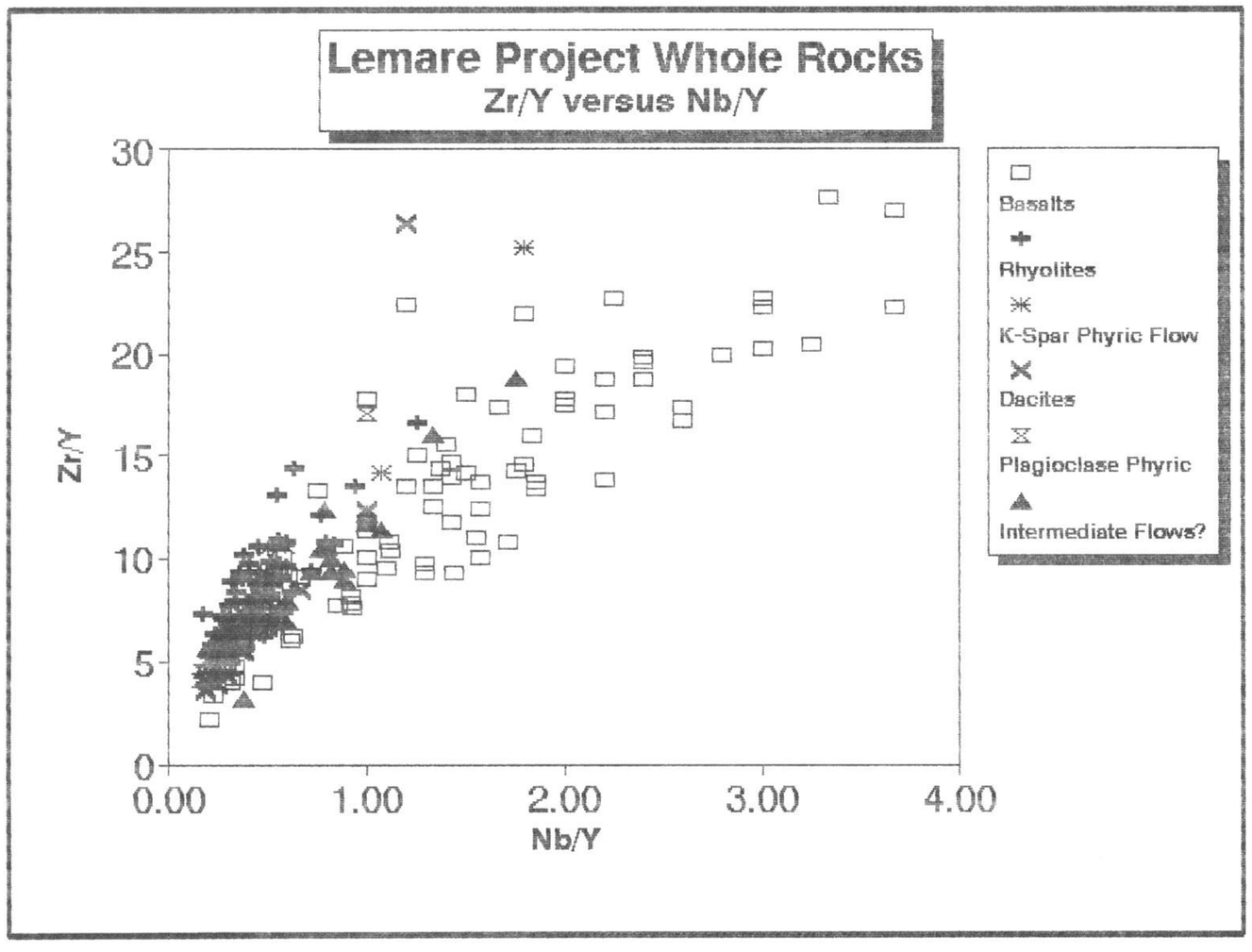
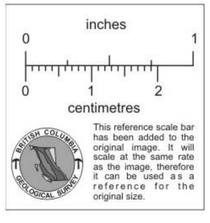
TiO2/Y versus P2O5/Y
TiO2/Y
P2O5/Y
0.0000
0.0060
0.0120
0.0180
0
0.025
0.05
0.075
Basalts
Rhyolites
K-Spar Phyric Flow
Dacites
Plagioclase Phyric
Intermediate Flows?


Lemare Project Whole Rocks
Zr/Y versus Nb/Y
Zr/Y
Nb/Y
0.0000
1.0000
2.0000
3.0000
4.0000
0
5
10
15
20
25
30
Basalts
Rhyolites
K-Spar Phyric Flow
Dacites
Plagioclase Phyric
Intermediate Flows?


Lemare Project Whole Rocks
Zr/Y versus Nb/Y
Zr/Y
Nb/Y
0.0000
0.2000
0.4000
0.6000
0.8000
0
2
4
6
8
10
12
Basalts
Rhyolites
K-Spar Phyric Flow
Dacites
Plagioclase Phyric
Intermediate Flows?


Lemare Project Whole Rocks
Zr/Y versus Nb/Y
Zr/Y
Nb/Y
0
5
10
15
20
25
30
0.00
1.00
2.00
3.00
4.00
Basalts
Rhyolites
K-Spar Phyric Flow
Dacites
Plagioclase Phyric
Intermediate Flows?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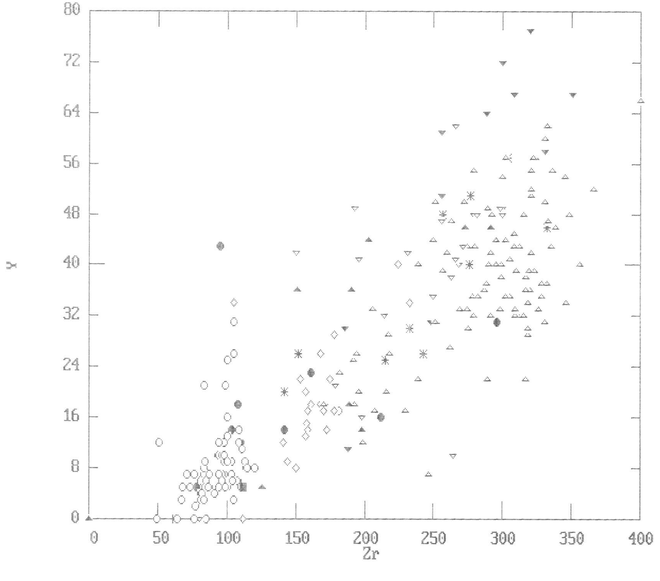
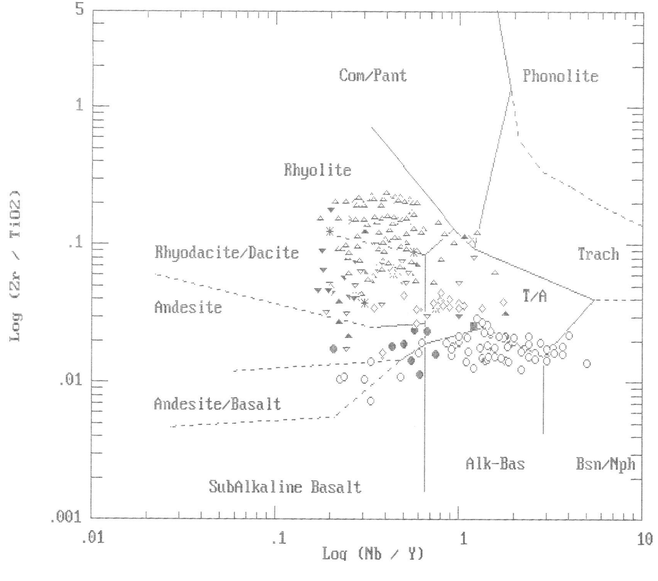
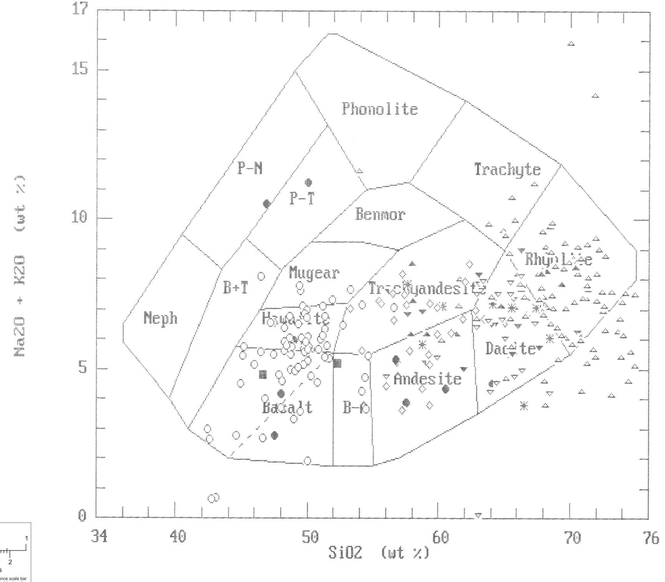


Winchester & Floyd 1977 (fig 6)



Cox et al 1979 (fig 2.2)



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Map 5.	Soil and Moss Mat Results (Mo)	1:10,000
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45 to 1390

(92) 47 intersection to LC 1391 (end of outcrop until
massive orange maroon rhyolite-dacite, sometimes k-spar phyric
at 1391 vesicular to amygdaloidal basalt. - dike / east-west

(174) 82 ~~172~~ next outcrop basalt v.f.g. dk grn massive (LC-1392

(183) 9 " " basalt? " dk maroon, massive to vesicular

(210) 27 " " basalt (to andesite?) oxidized? " " " " rare brick red tabular inn phenos
calcite fracture fill.

257 ② 47 " " (landing?) rhyolitic-dacitic orange maroon, k-spar phyric.

1393

~~Clodys~~ Lloyds
- thin vesicular basaltic, f.g., (flows.) (frothy layers

10m 260 rhyolite

at 1500 275 k-spar phyric rhyolite

80° @ 15m

amythestine

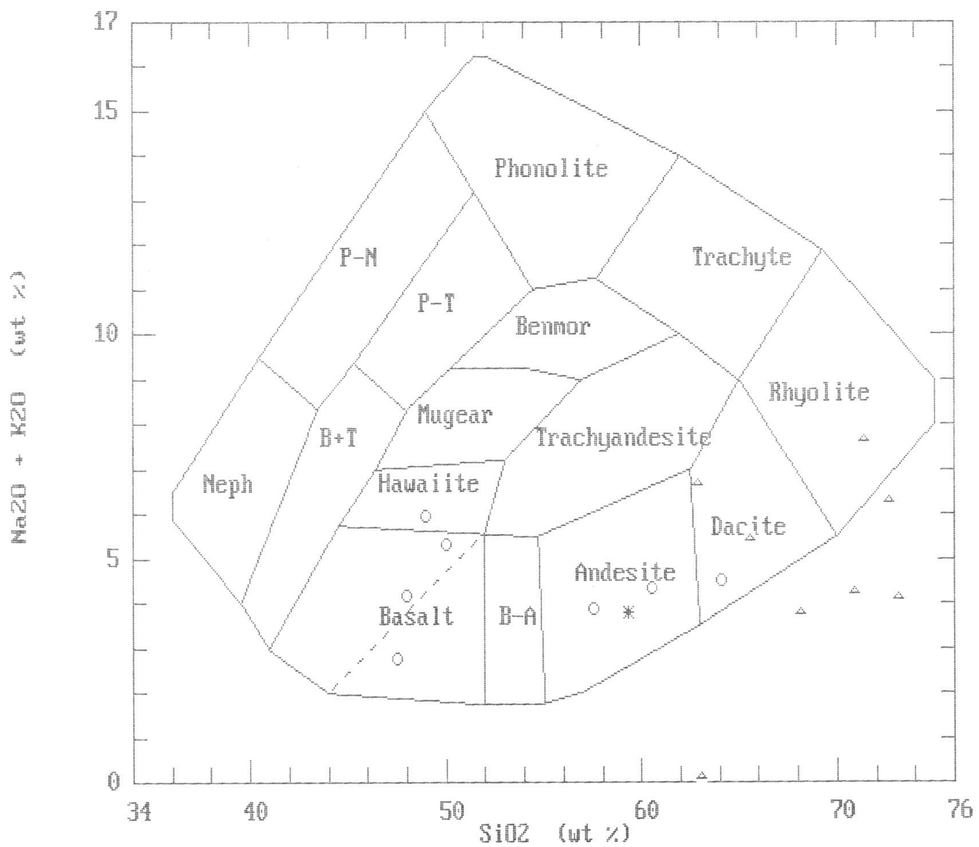
amethys

anyth

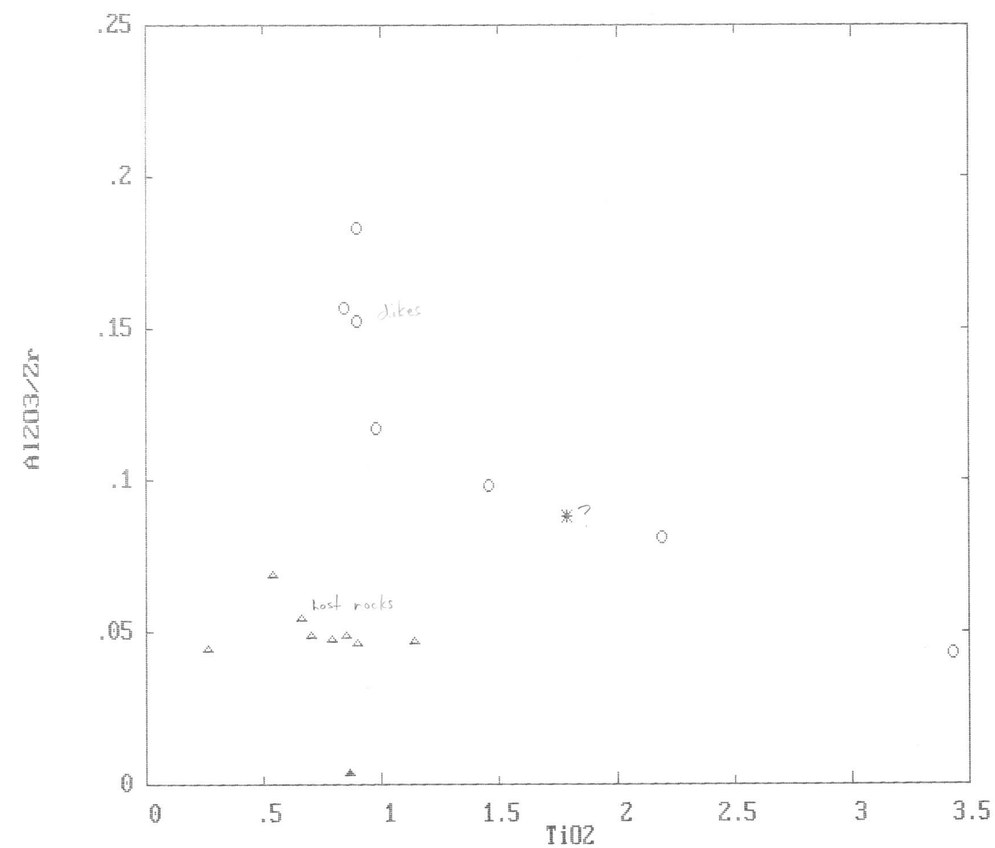
Whole Rocks South Gossan Zone

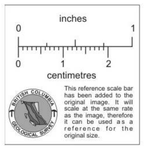
O = dikes
Δ = altered rhyolites, pyroclastics, epiclastics

Cox et al 1979 (fig 2.2)

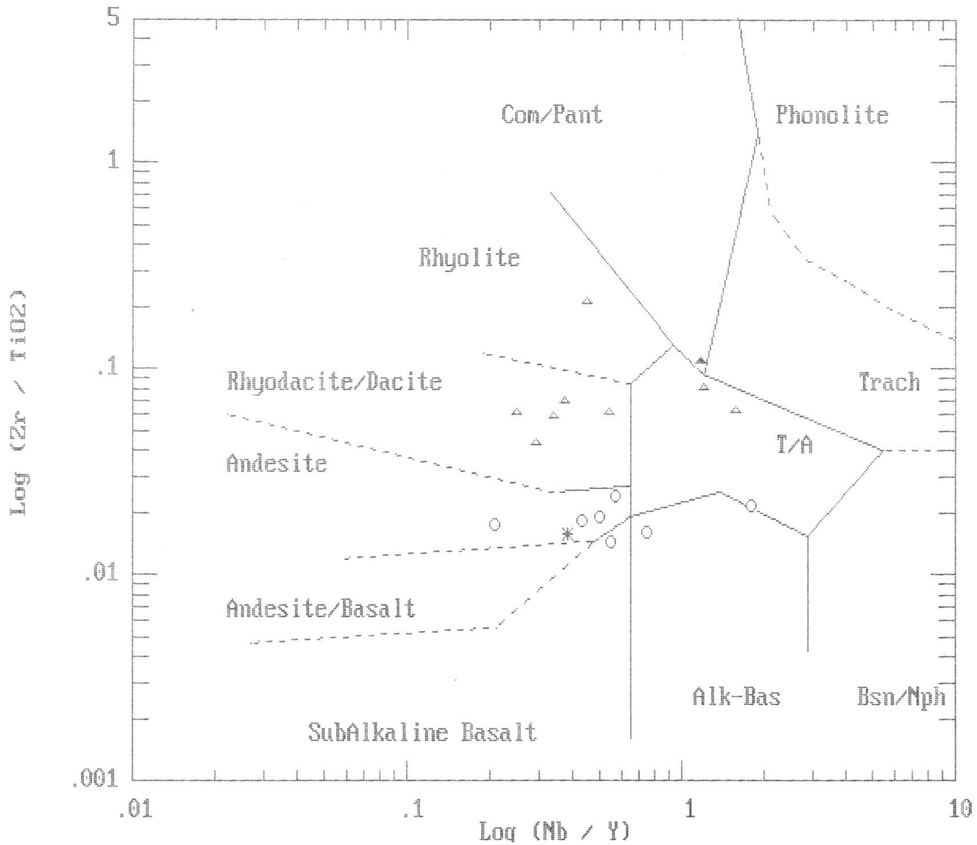


Whole Rock SGZ

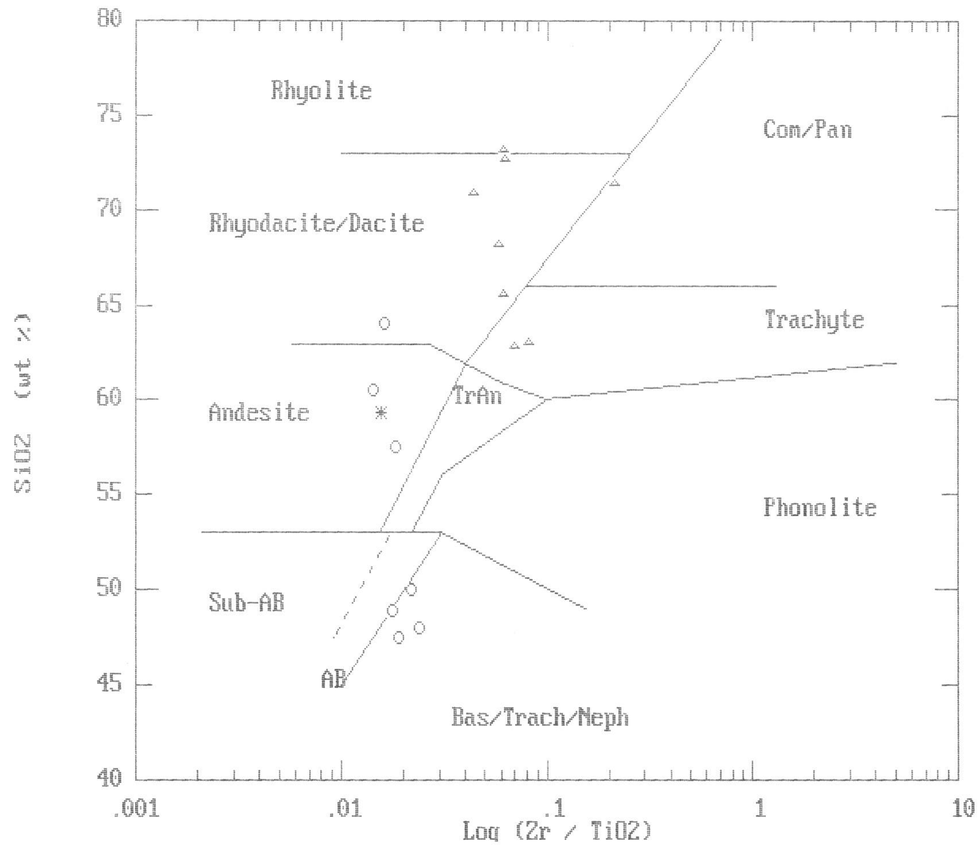


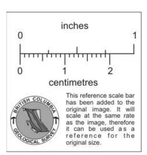


Winchester & Floyd 1977 (fig 6)

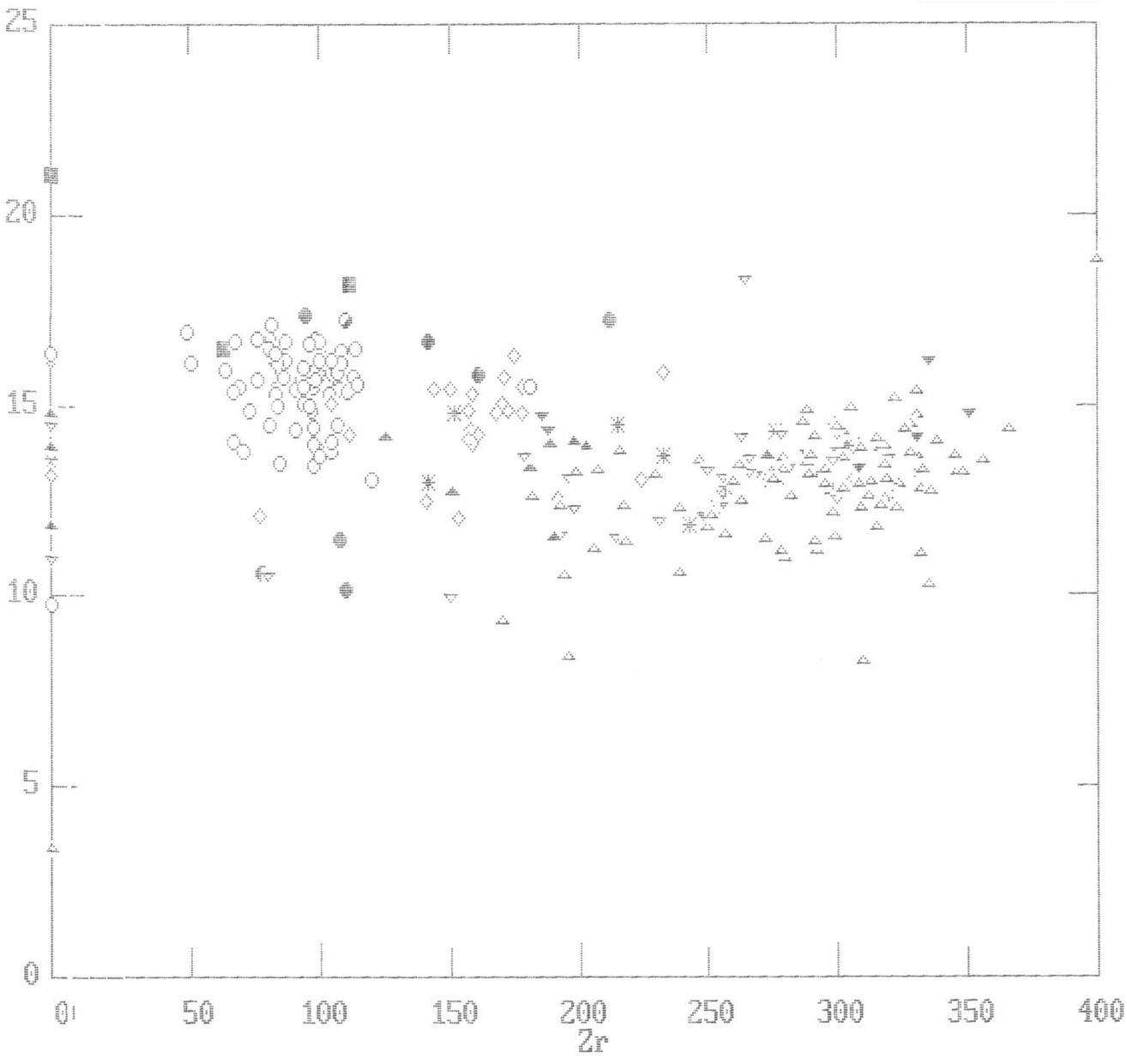


Winchester & Floyd 1977 (fig 2)





LEMARE PROJECT



inches
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centimetres

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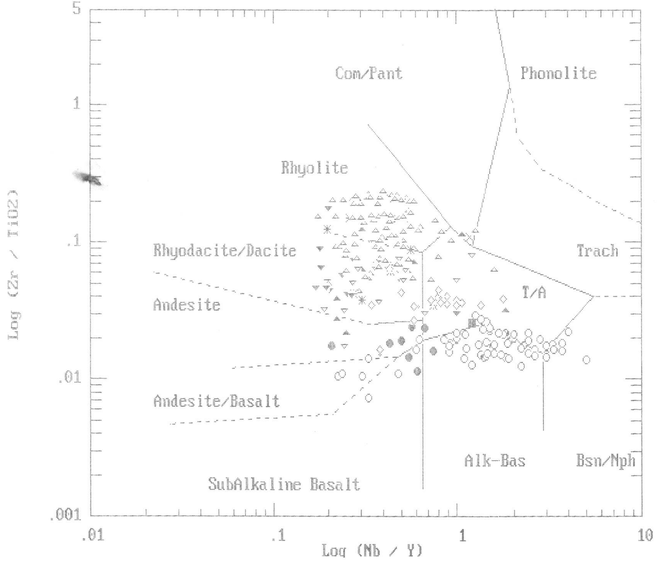
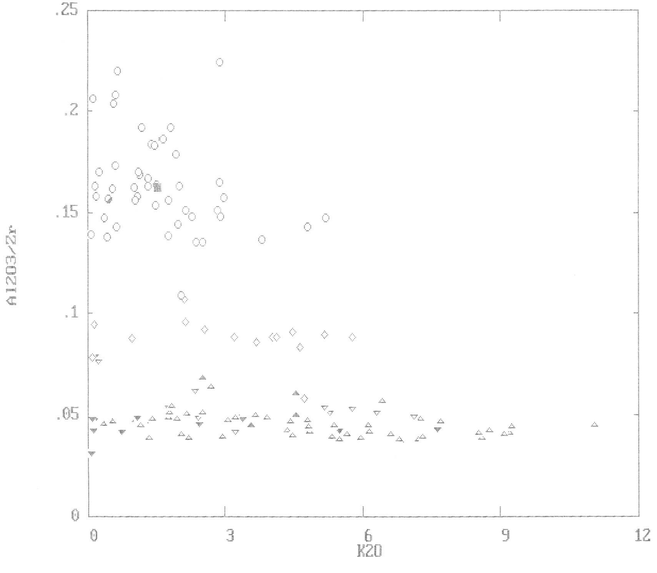
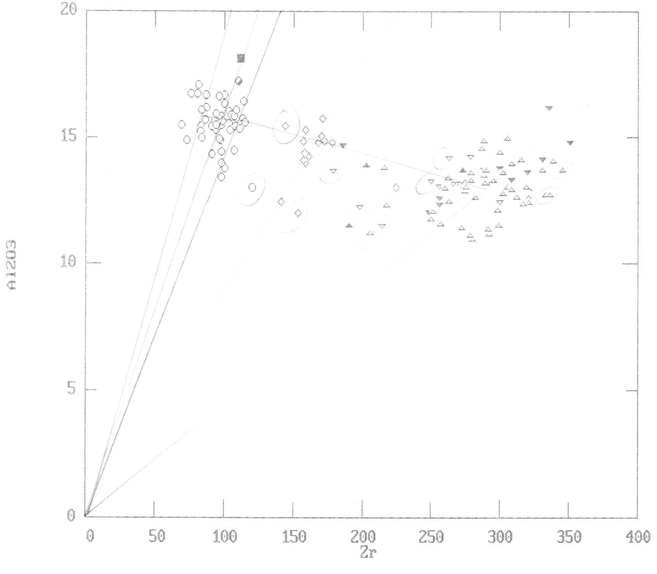
Winchester & Floyd 1977 (fig 6)







Symbols

1 - open circle - basalt
2 - half filled circle - basalt south of Property
3 - closed circles - mafic dykes
4 - open box
5 - half filled box
6 - filled box - gabbro
7. - triangle - open up rhyolite, rhyodacite
8 - Filled up K-spar phyric rocks
9 - Open down ~~Plag phyric rocks~~ Dacites
10 - filled down Plag phyric
11 Asterisk Pyroclastics, epiclastics
12 X
13 cross
14 Open Diamond intermediate Rocks
15 filled Diamond " " dykes

wipe out

~~58862~~ or 75463 ~~75573~~
58859 or ~~75573~~
~~58858~~ or 75370
58857 or 75010
~~58856~~ 58855 or 75120 Fresh
~~58855~~ or
~~58854 or 1115~~
58853 or 1116

58553 is also ?
mafic Tuff

58541-0260 ~~75360~~ 58460
42 0144 75444
43 0118 75418 3.2
44 0145 75445
45 0146 75446 58495
46 0295 25
47 0130 75430
48 0125 75425
49 003 - 75453
50 0017 - 75417

75469 T/A
75479 T/A
75487 T/A
75495 T/A

Geremy samples

58489 → T/A - highly Altered.
~~58550 →~~
58553 → Andes - highly altered basalt
58763 → T/A
58908 - Rhyodacite/dacit
58920 - Rhyodacite/dacite
58926 - Rhyodacite/dacite
58930 - Rhyodacite/dacite
58948 - Rhyodacite/date
58949 - Rhyodacite/dacite
75275 - " " "

Loc. WQ1
A-F

Check

dup sample 58495 (read 2#1, 74.5 = Sample 58546, 346, 777, 3612

58549 3, 1904 4046

58550 17 2388 3862

Missing WRA Loc.

58651 LC 1336A
~~58723~~
~~587~~

58839 ⇒ 58854?

58854 dup of LC ~~1015~~ 1115, ~~75010~~ 75115 3800, 1500 Check

58856 " " LC 1130, 75130, 3470, 1910

58860 " 1142 75142, 4545, 3800

58861 1152 75152, 35, 4130

58862 0013 75463, 3827 - 3351

58913 LC 1138 75138 3745 965

58914 LC 1132 75132, 4175 1920

58915 ~~LC~~ ER 0148 75448, 3868 - 533

58916 ER 0151 75251, 3914 - 346

58920 1448 - 4545 895

58940 Felsic part of ER 0397 58597, 1138 - 473

58948 LC 1332A 58788 2715, 5295

58949 LC 1332 (veined) 5878 " "

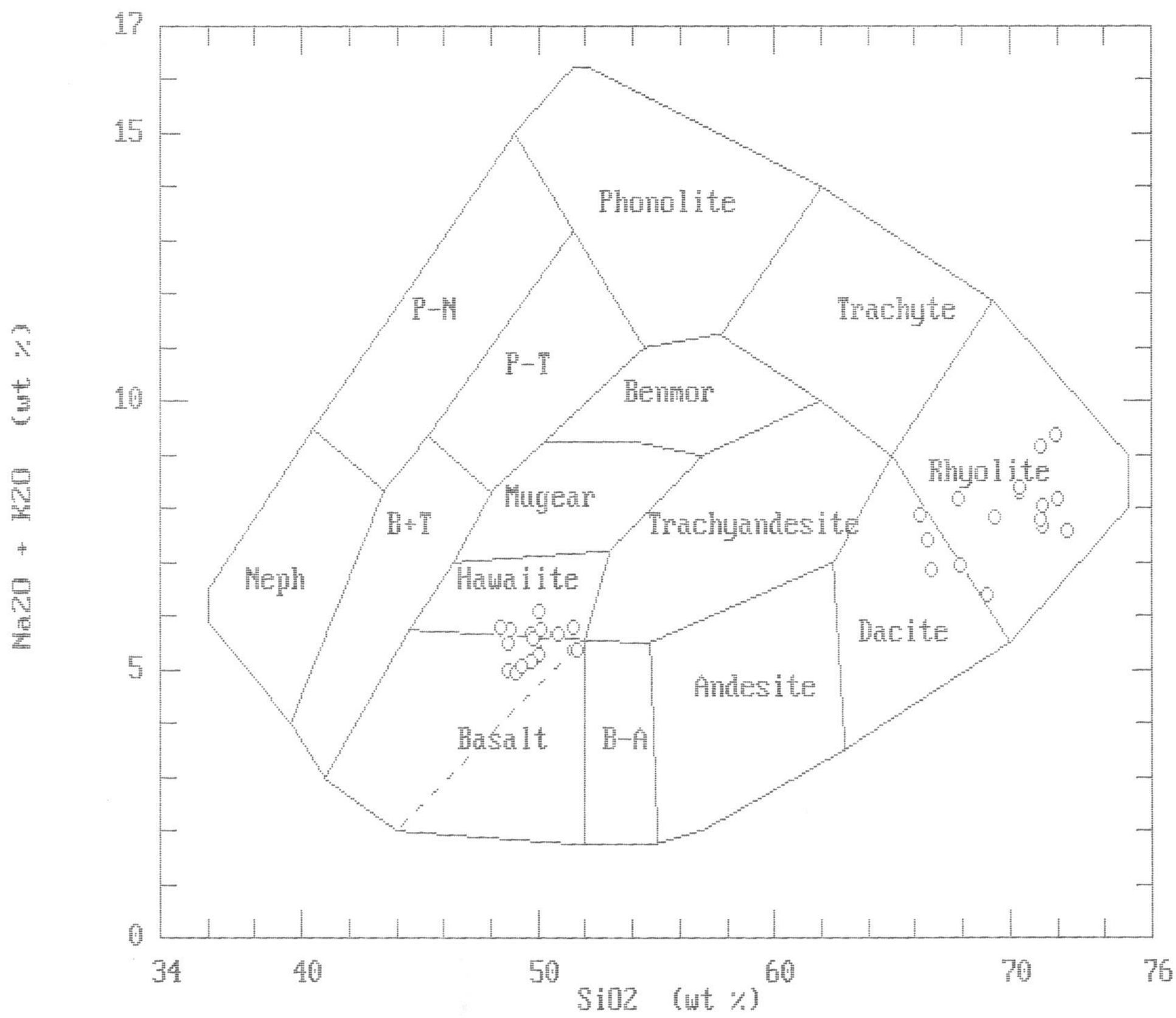
58950 LC 1334A 58790, ~~272~~ 2570 5245,

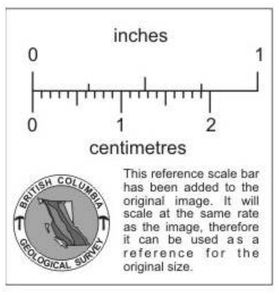
58857 LC ~~1131~~ 1101, 75010, 3860, 3415

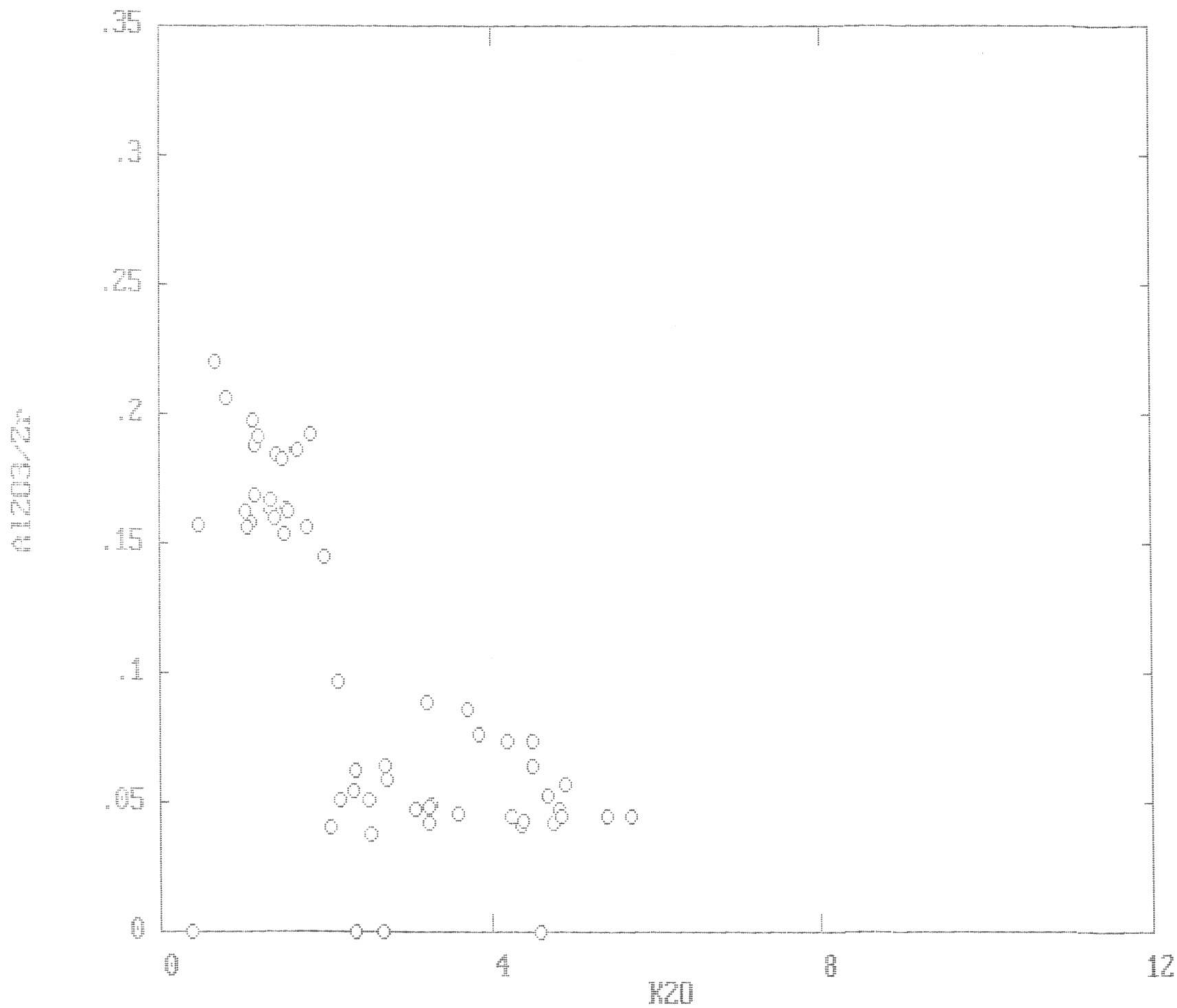
Matches dup dups.

58916	~~58~~ 58854
15	58548
14	47
13	45
58861	44
60	43
	42
	41

Cox et al 1979 (fig 2.2)



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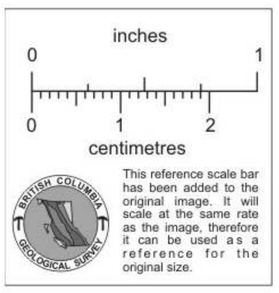
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GEOLOGICAL SURVEY
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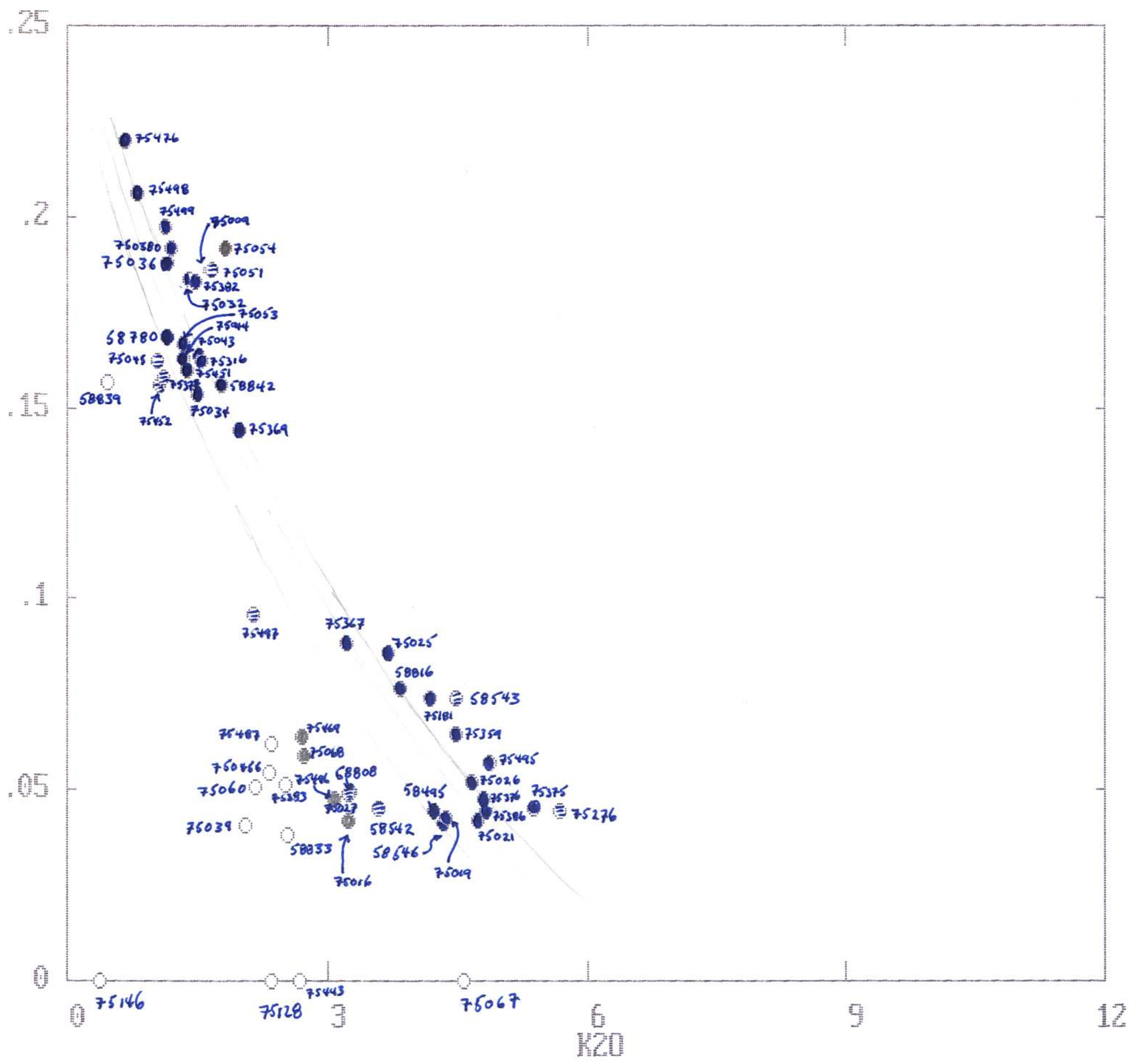

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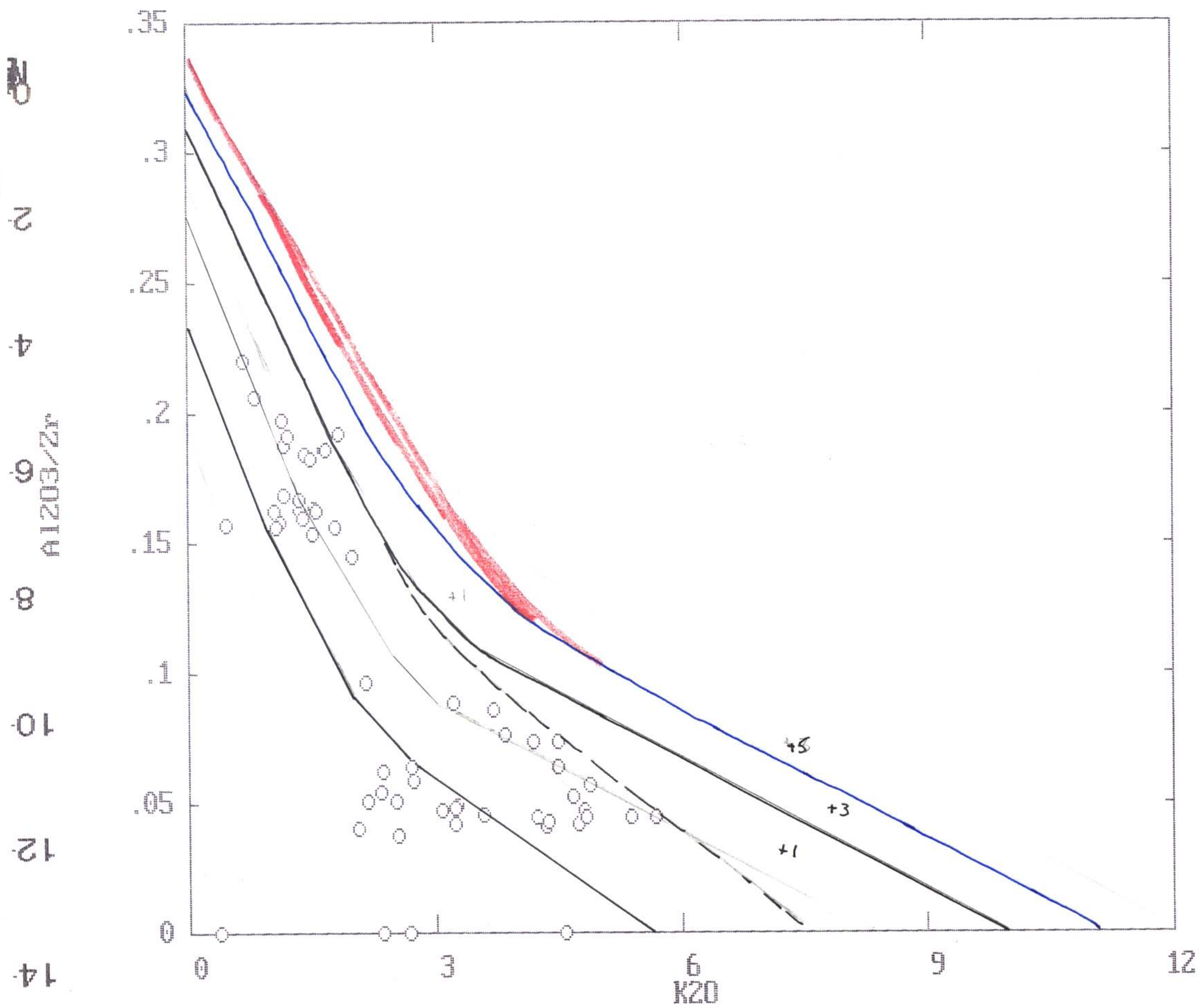
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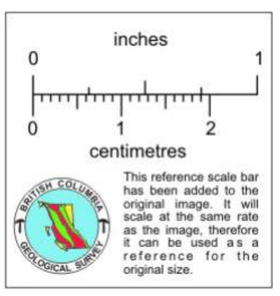
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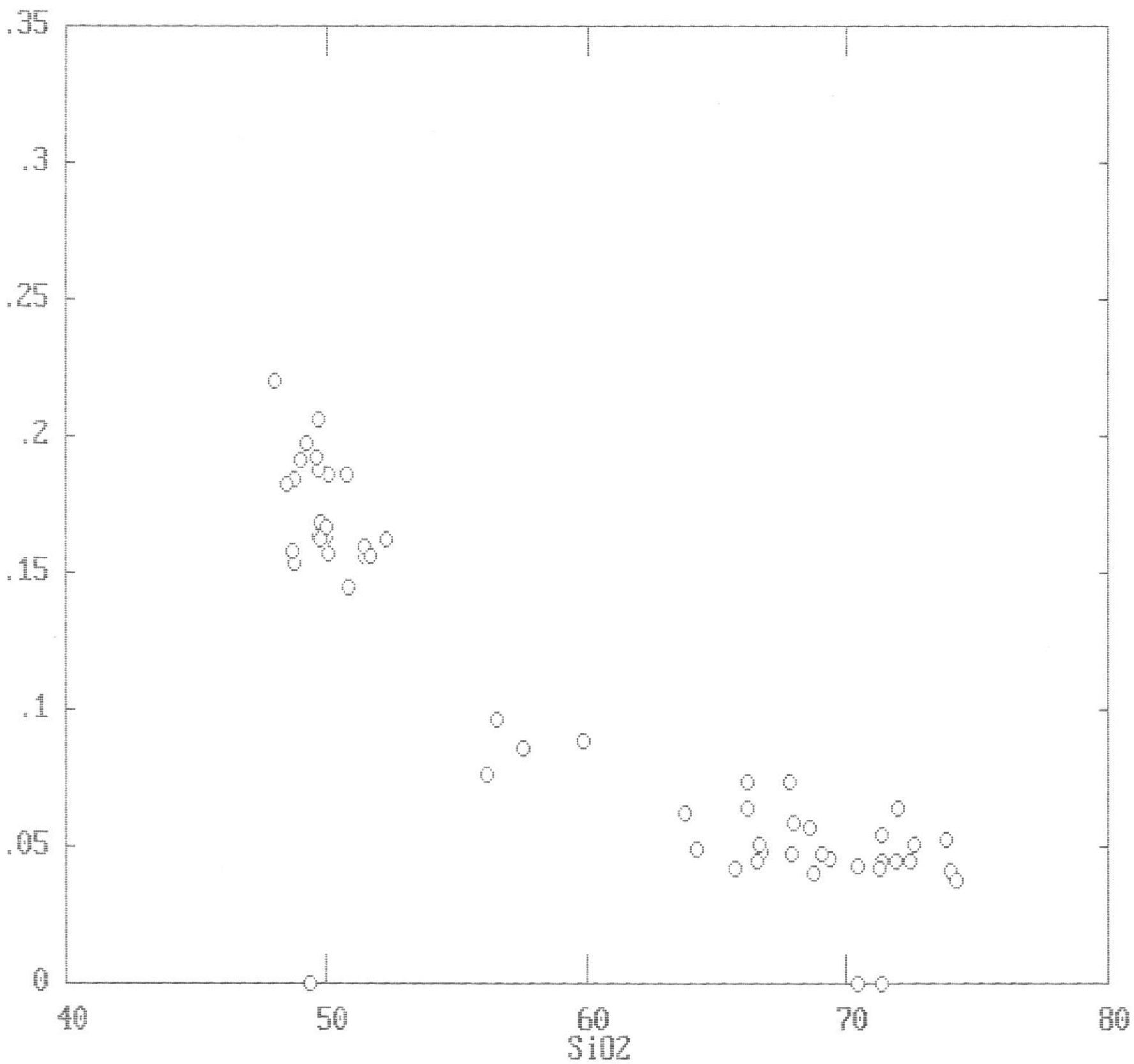
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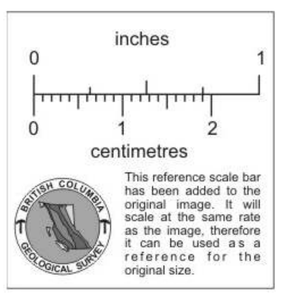
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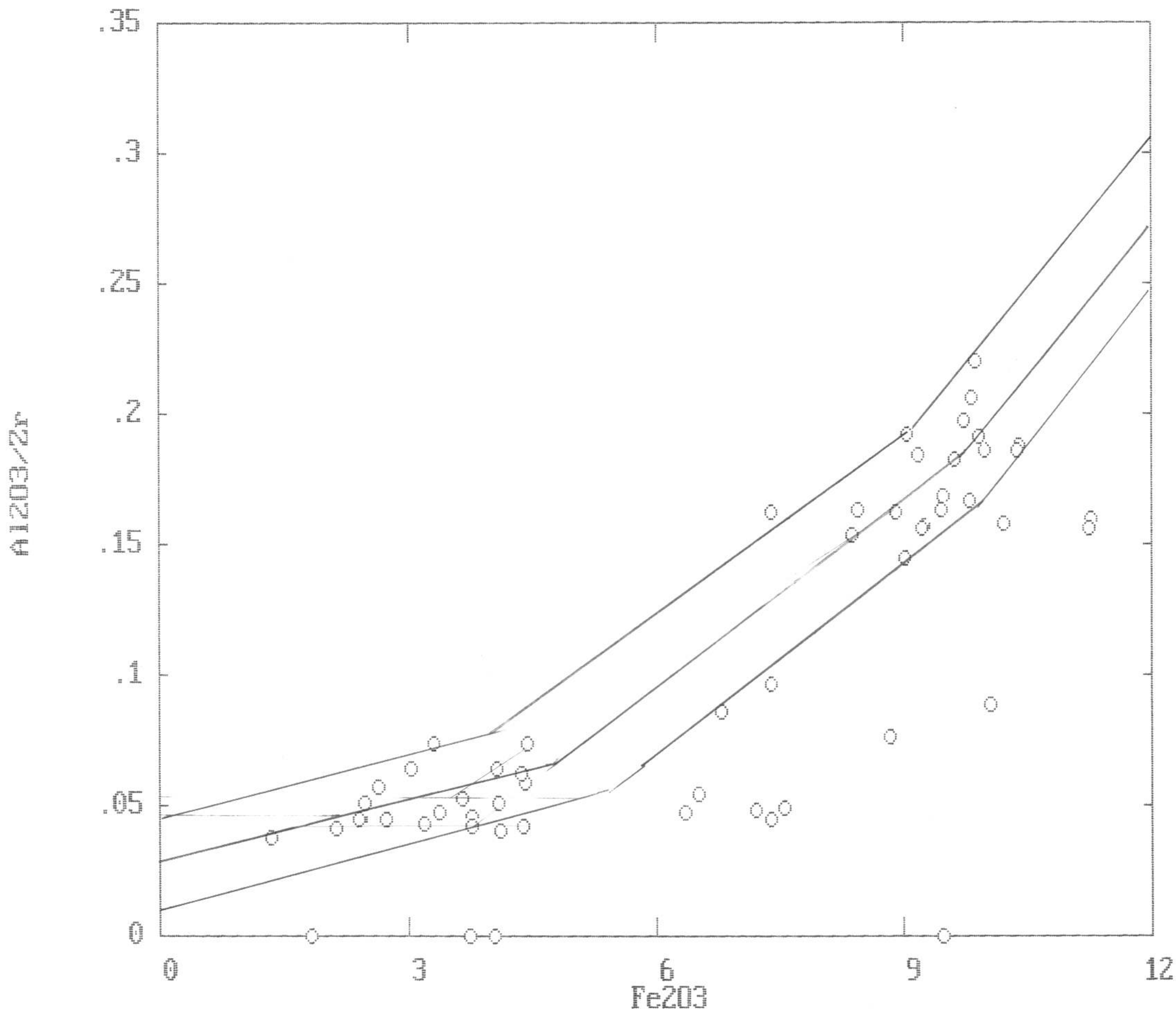
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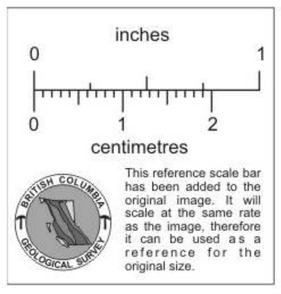
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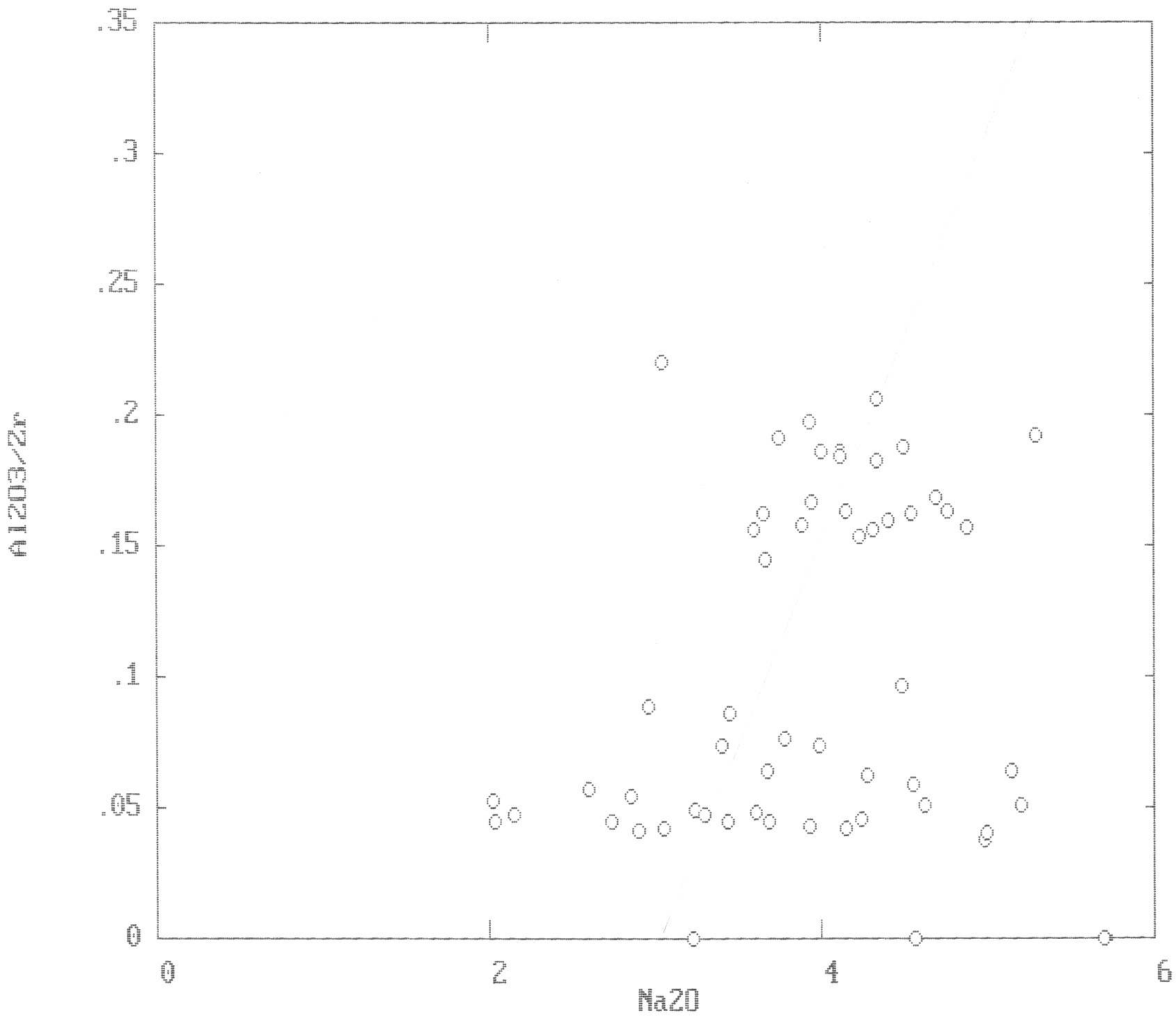
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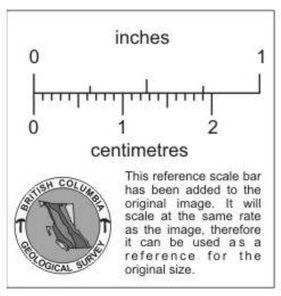
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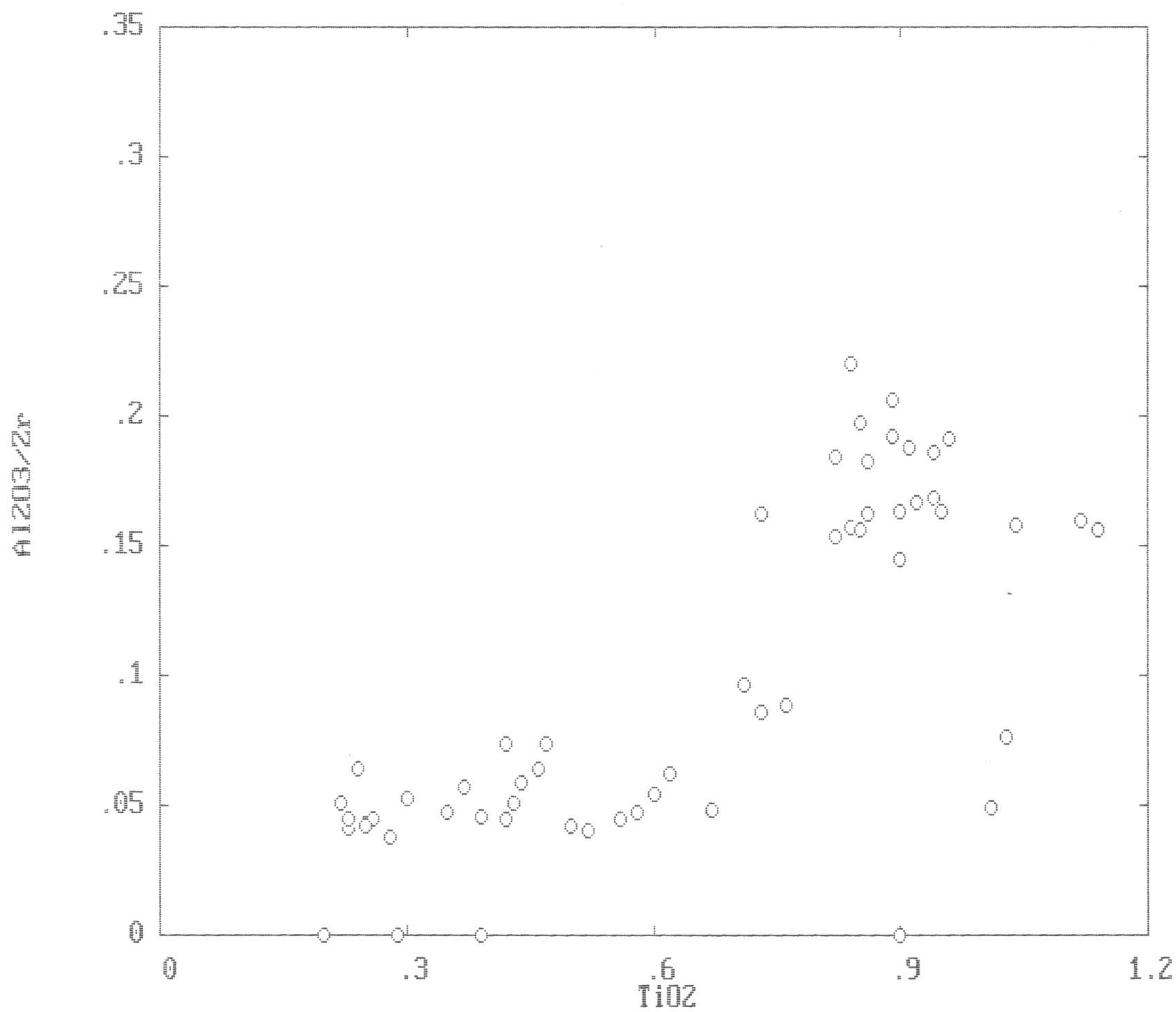
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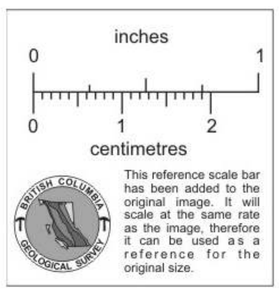
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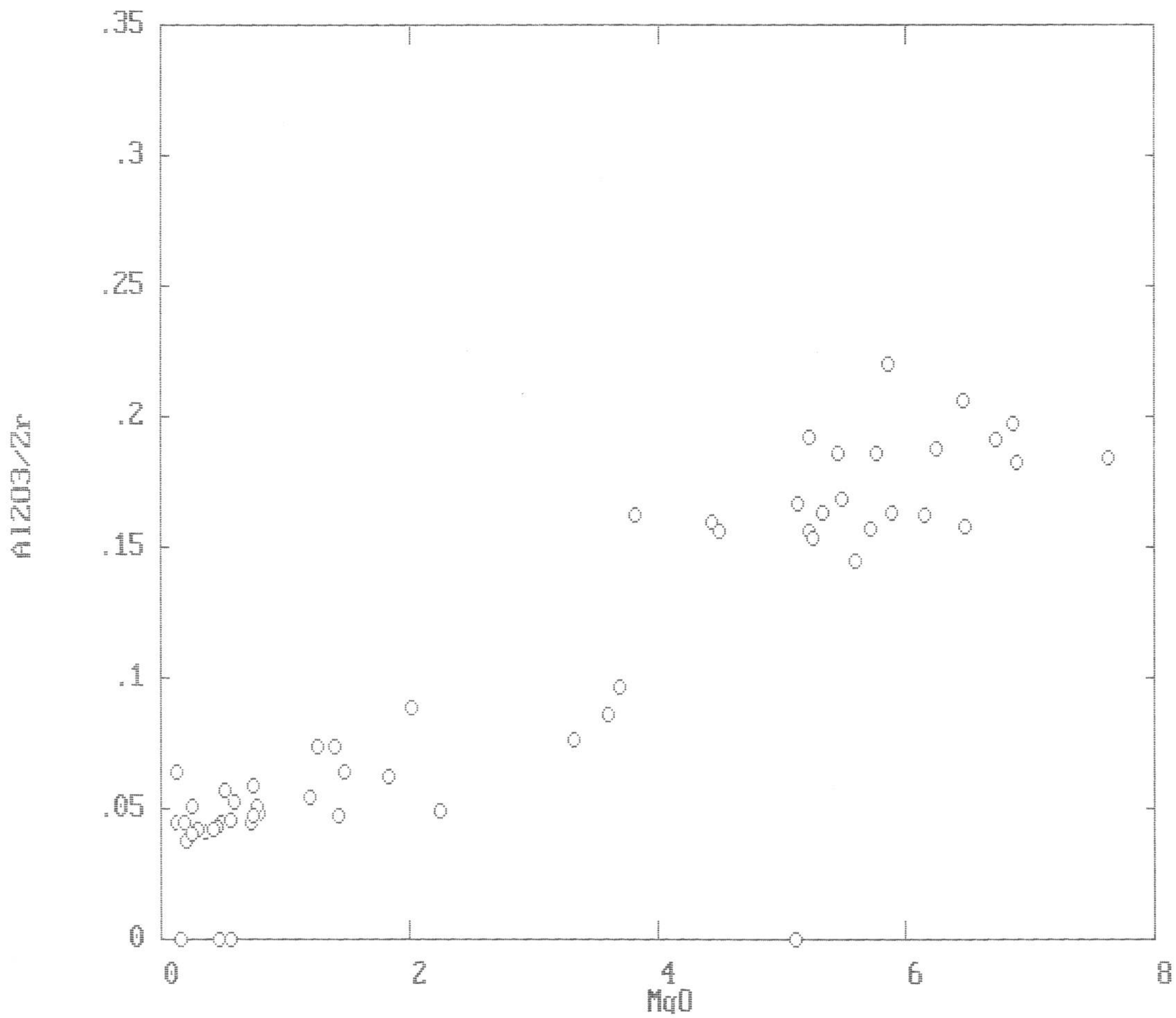
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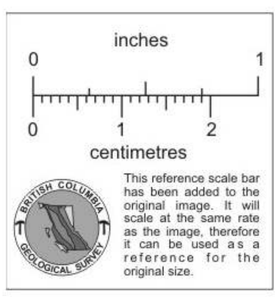
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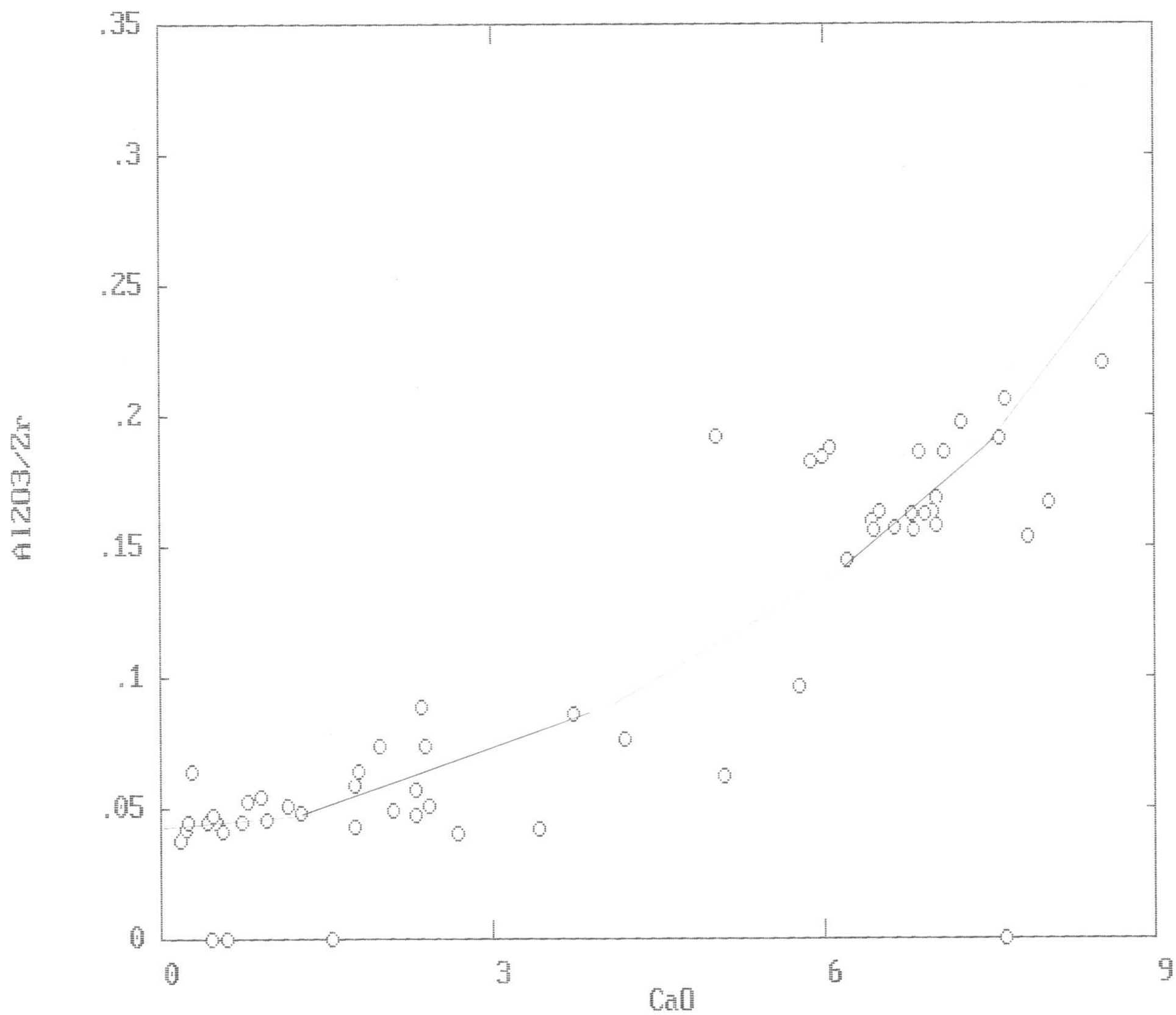
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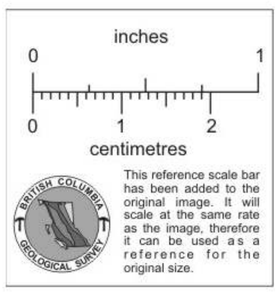
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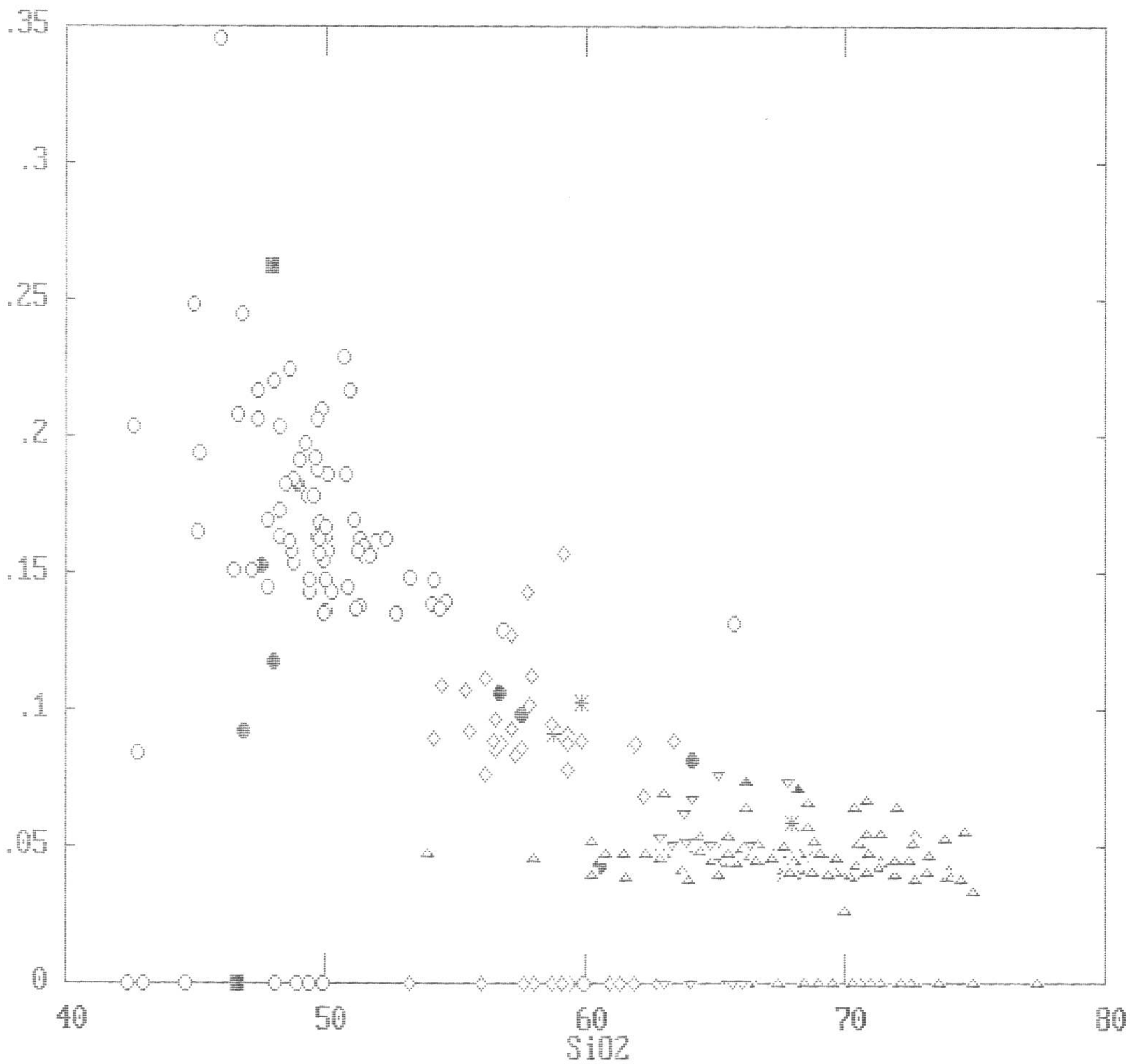
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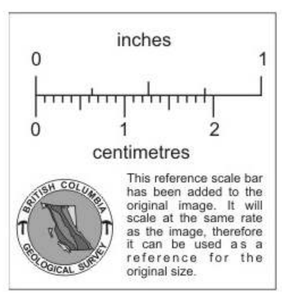
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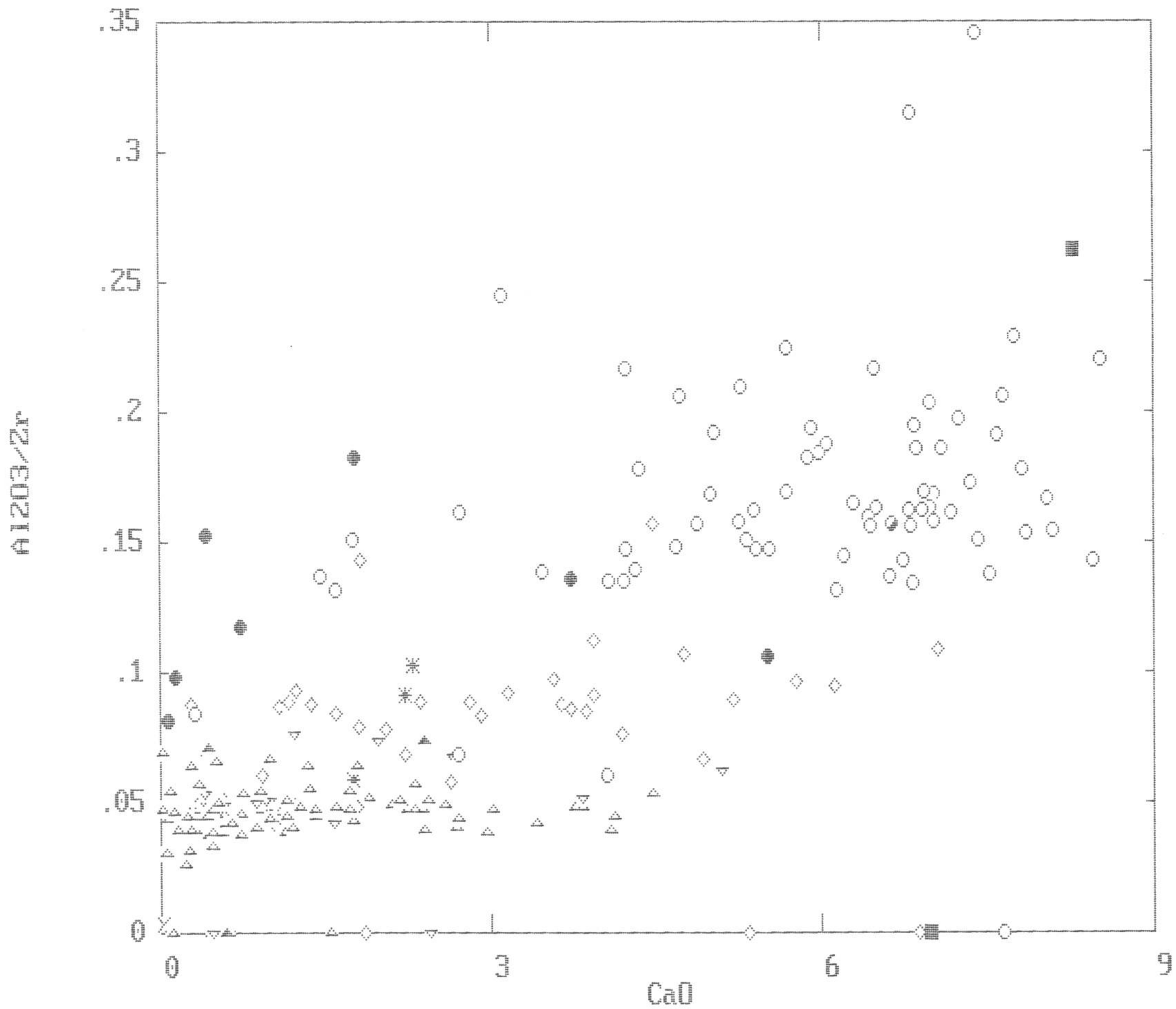

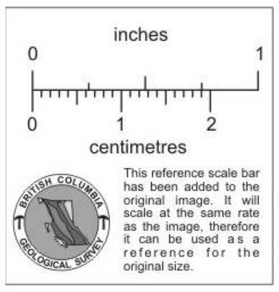

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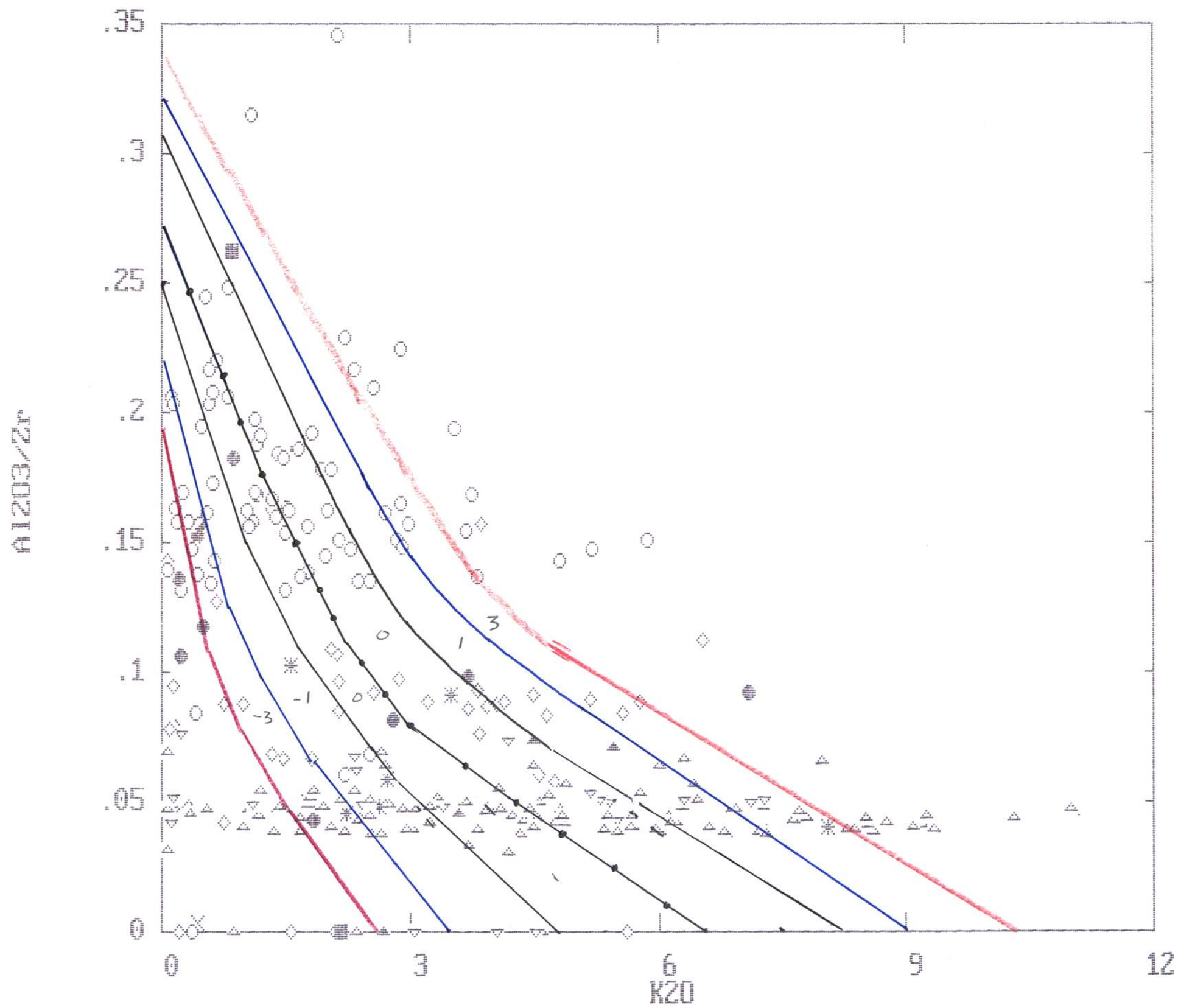

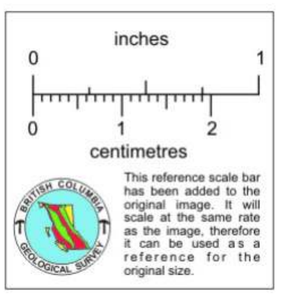

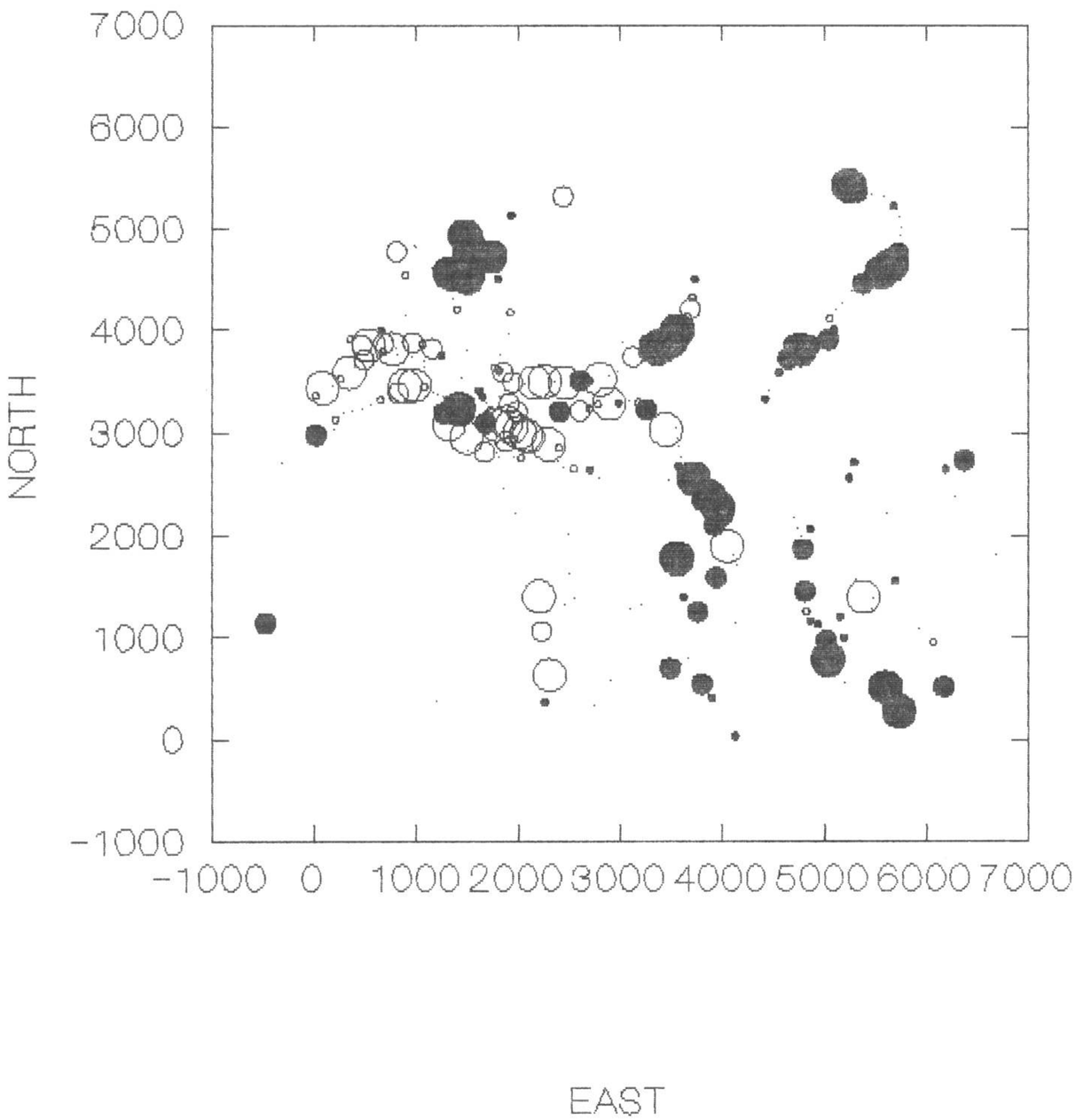
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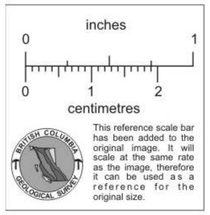
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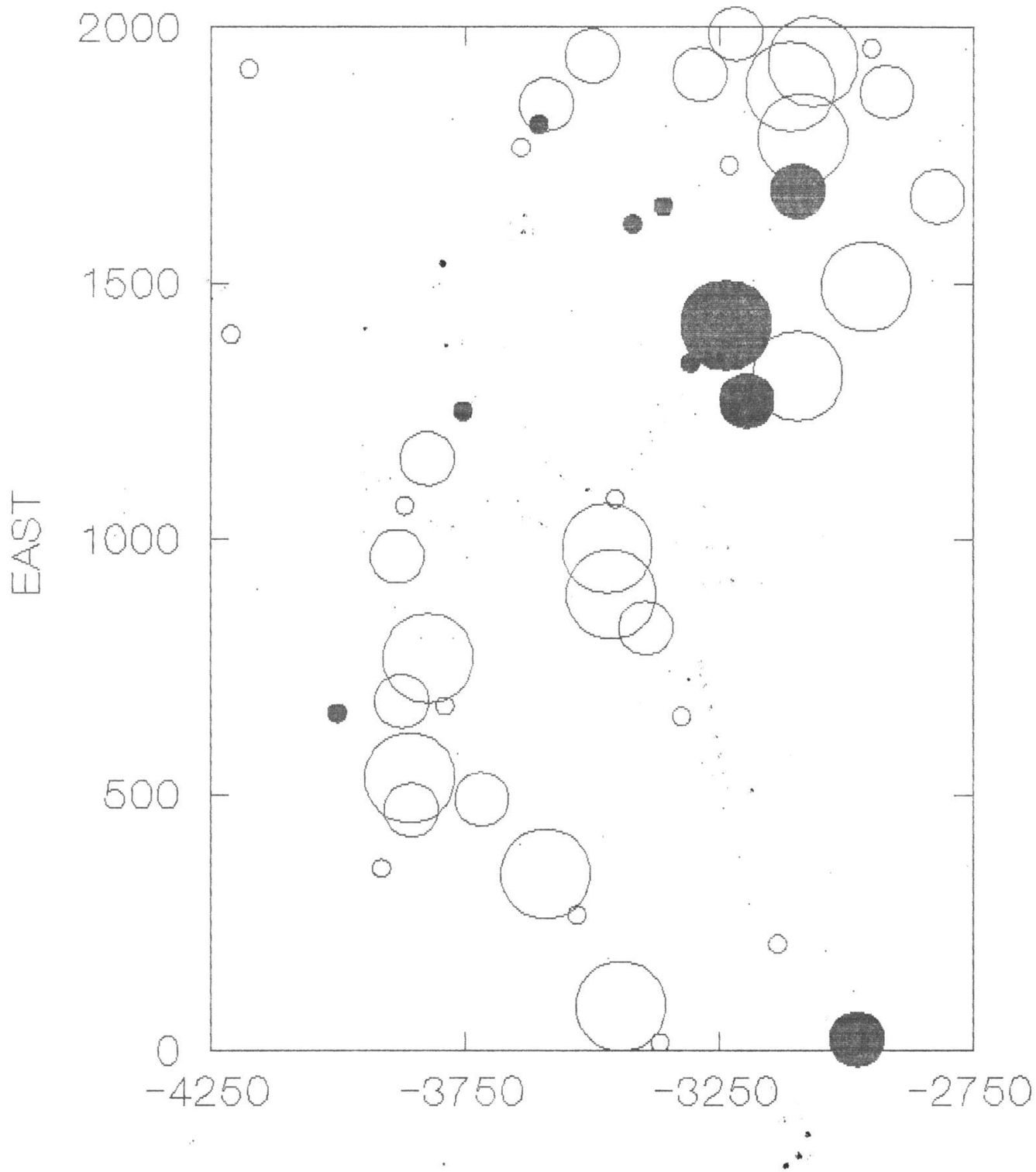
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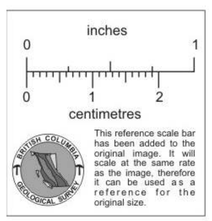
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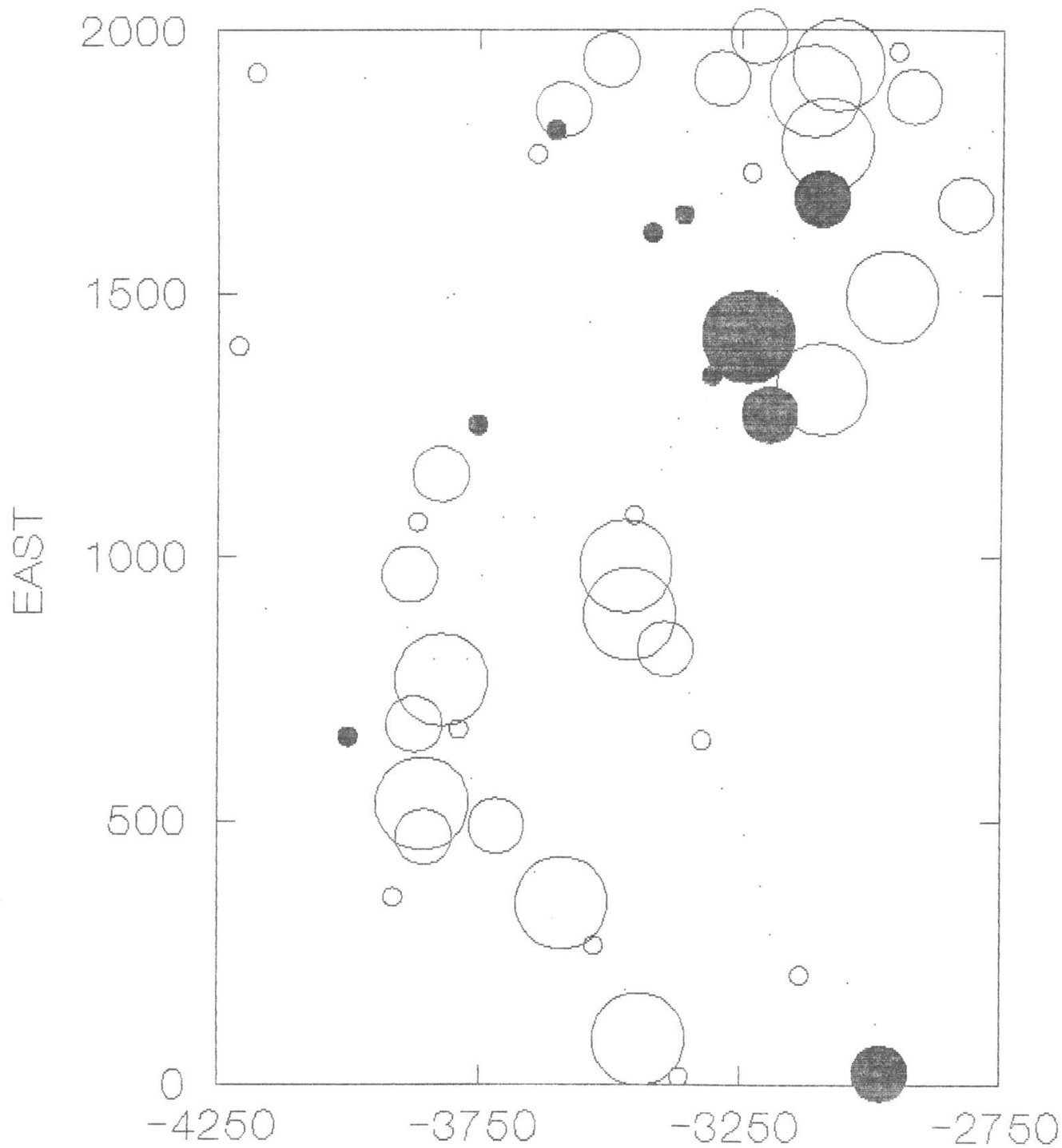
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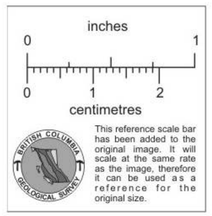
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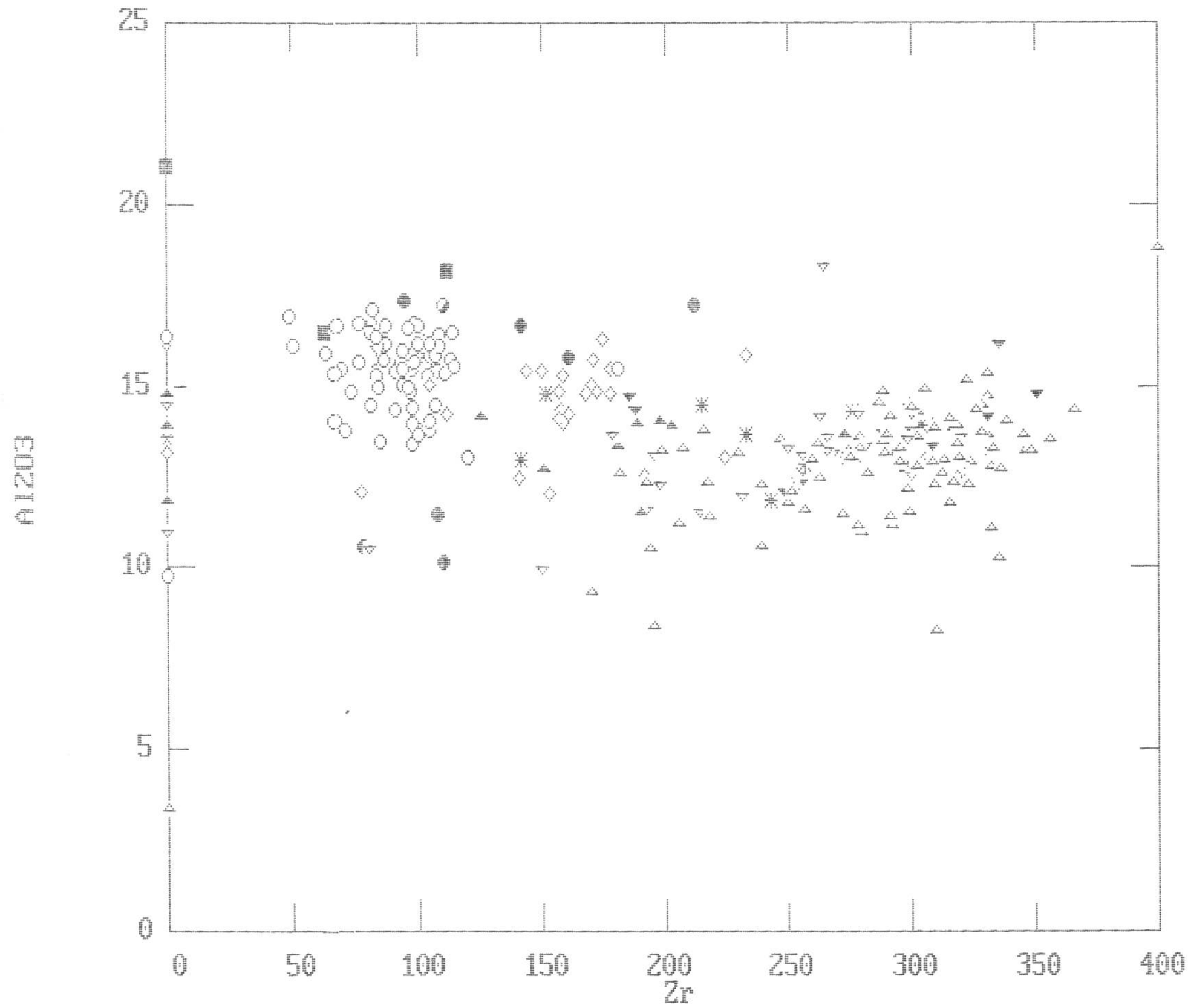
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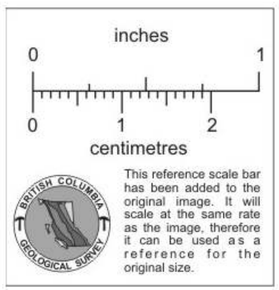
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75026	1026	3385	5585385	1210	577210	PT

Whole Rocks on Roads.

Upper Road (3)

58745	#8	mafic dyke	andesite
58760	21	sinternot	trachyandesite
58763	24	qtz-py-Se alteration	rhyodacite "

Middle Road (2)

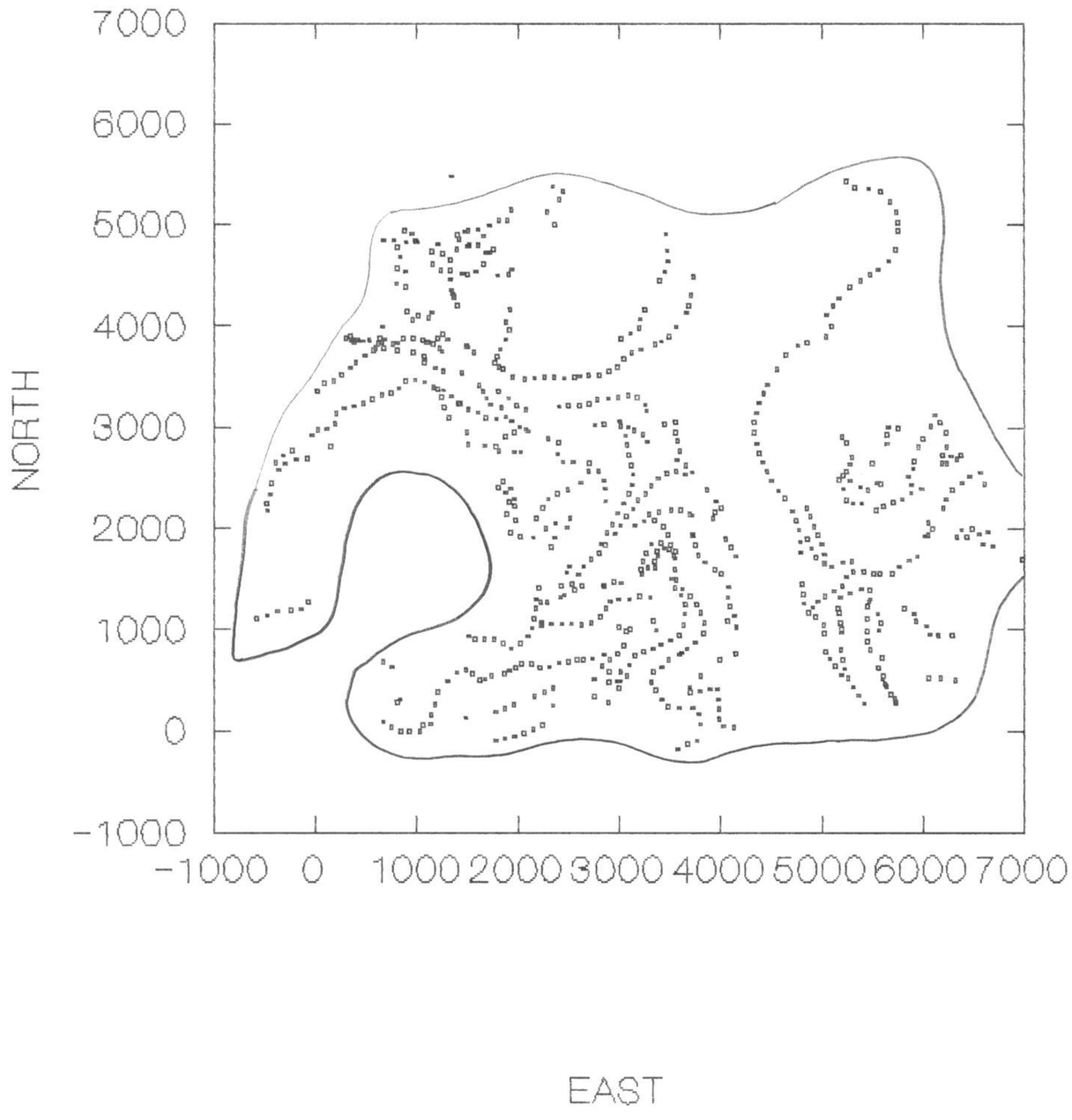
58507	12	Silica-clay alteration	rhyodacite
58495	1	Fresh rhyolite	rhyolite
58501	7	mafic dike (S-py)	Rhyodacite
58503	9	mafic dike (S-py)	Andesite
58505	11	" " "	Andesite

Lower Road (1)

7 75217	31	(altered - A.A - S-Ser-py) rhyolite)	Rhyodacite
75219	33	(not recognisable)	Andesite
58729	64	(highly altered dike - silica, ?)	Rhyodacite
58733	68	(altered dike)	Andesite
58468	80	(altered dike - clay, chlorite)	Basalt
58476	88	(dike - S-ser)	Alkaline basalt
58489	92	(very altered, rubble?)	Trachyandesite
58506	98	(S-ser-py (5%))	Rhyodacite

Basalt O
Intermediate ▲
Dacite — K spar phyric
Rhyolite △
epiclastics — pyroclastics *
gabbro

Basalt 1
Basalt dike 3
Intermediate 14
" " dike 15
K-spar phyric 9
Rhyolite 7
epiclastics
gabbro
Sinternot
unknown 8
Dacite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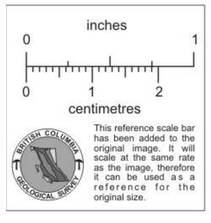
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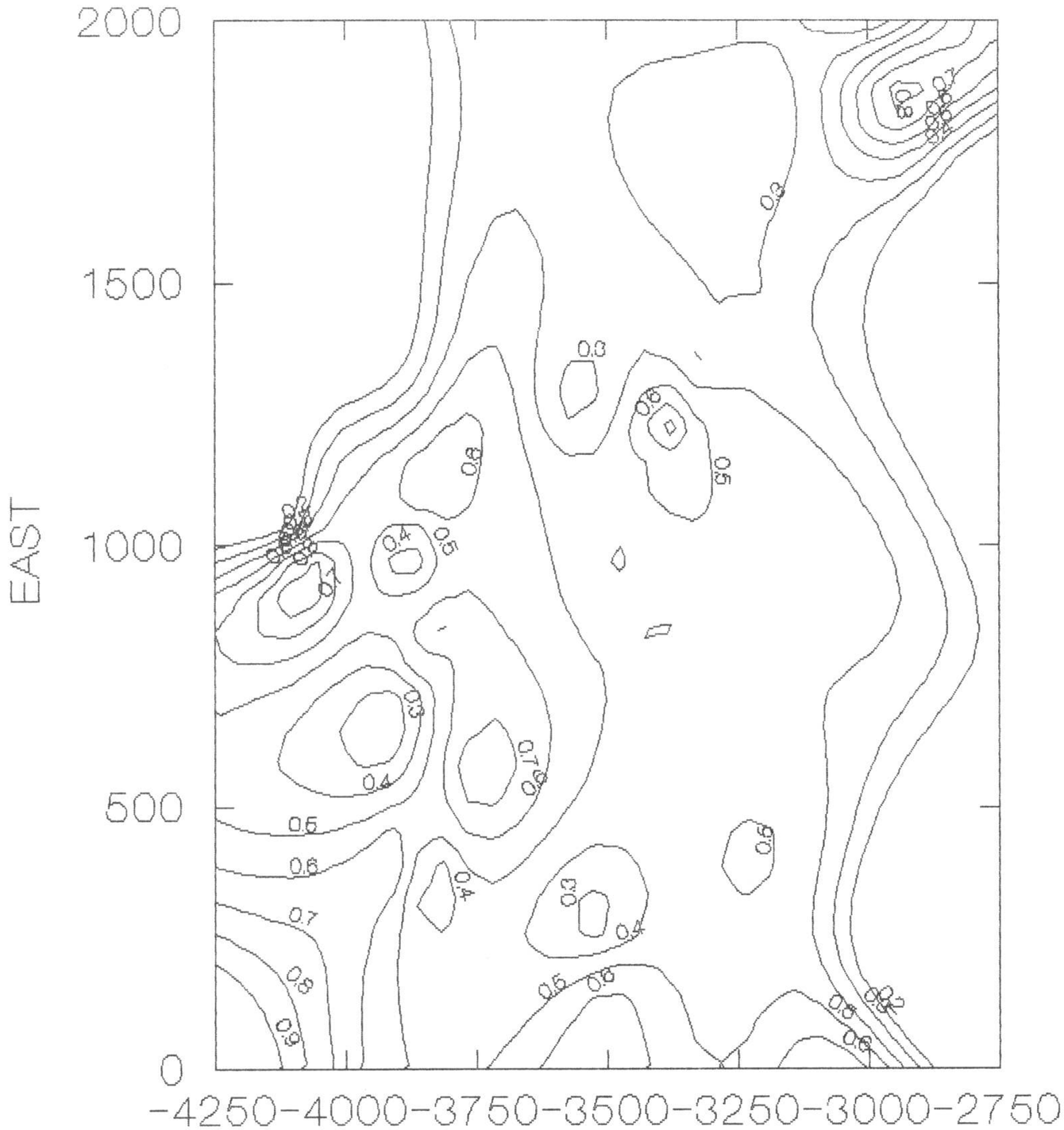
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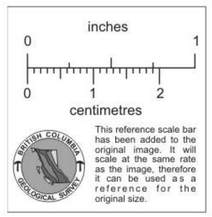
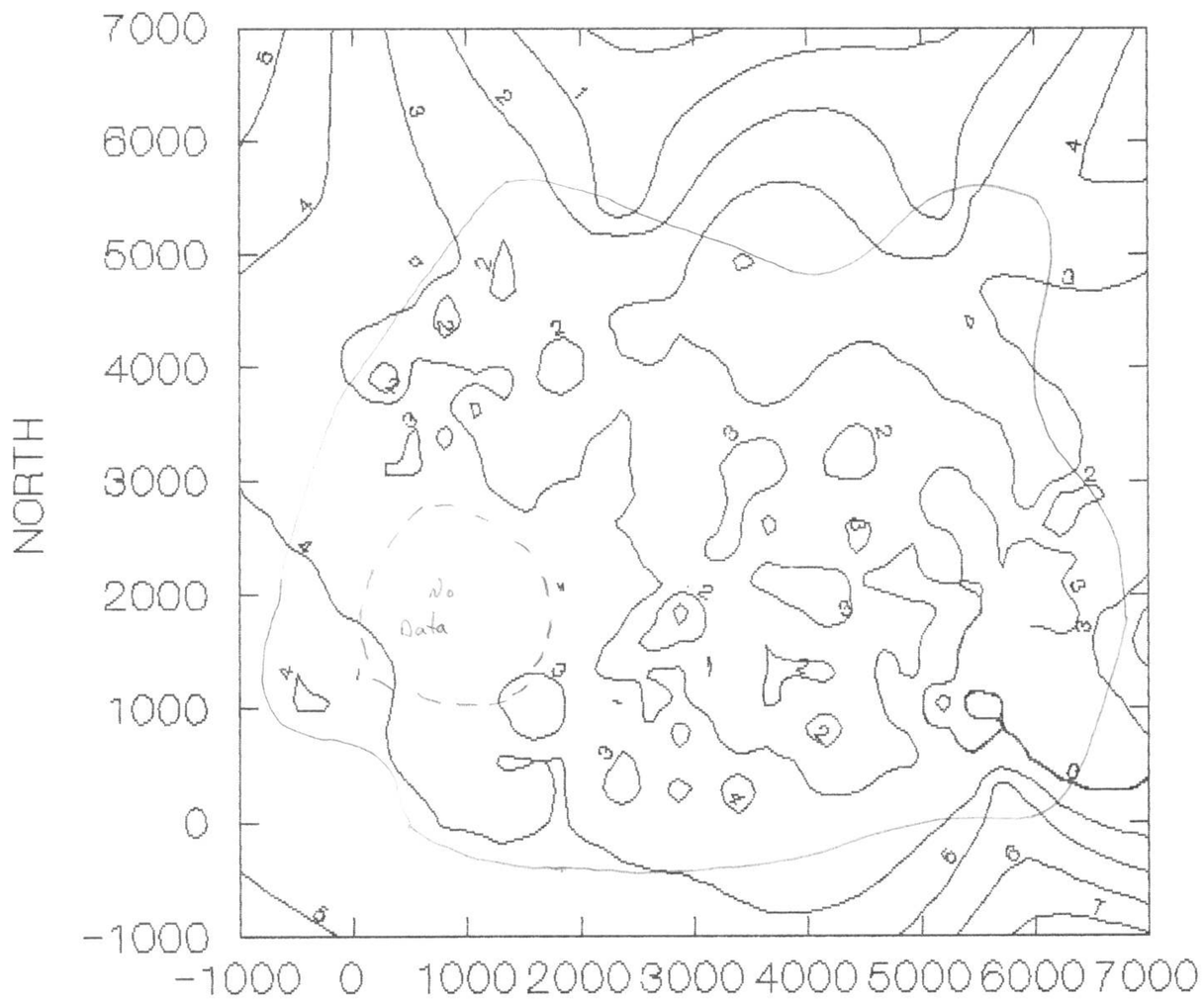
NORTHING


inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

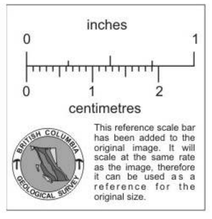


Log Cu

0-8

zfac = 8

Smooth = NEAREST



EAST