

App. 2 Results of Chemical Analysis of Soil Samples(2/1 1)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
A. 50.S	<5	<0.05	1.4	<0.2	42.0	<0.1	<0.2	3.0	<0.2	59	100
A. 51.S	<5	0.05	2.8	<0.2	54.0	<0.1	<0.2	1.0	0.4	69	40
A. 52.S	<5	<0.05	0.6	<0.2	275	<0.1	<0.2	1.0	0.4	107	20
A. 53.S	<5	<0.05	<0.2	<0.2	44.6	<0.1	<0.2	3.5	<0.2	61	20
A. 54.S	15	<0.05	22.4	<0.2	100.0	<0.1	<0.2	8.0	3.0	160	100
A. 55.S	<5	<0.05	11.0	<0.2	5.6	<0.1	0.2	5.5	<0.2	18	40
A. 56.S	<5	<0.05	8.2	<0.2	7.8	<0.1	<0.2	6.0	0.4	20	80
A. 57.S	<5	<0.05	23.0	<0.2	5.6	0.1	0.2	5.5	1.8	14	20
A. 58.S	<5	<0.05	10.6	<0.2	4.4	<0.1	<0.2	3.5	0.4	26	30
A. 59.S	<5	<0.05	5.4	0.4	21.8	0.1	0.2	14.5	<0.2	56	1080
A. 60.S	<5	0.05	4.4	0.4	14.8	<0.1	0.2	18.5	0.2	60	820
A. 61.S	<5	0.05	4.4	0.4	16.6	<0.1	0.2	22.5	<0.2	64	840
A. 62.S	<5	<0.05	4.6	0.6	19.8	<0.1	0.2	20.5	0.2	60	580
A. 63.S	<5	0.05	6.6	0.8	16.8	<0.1	0.2	29.0	<0.2	65	980
A. 64.S	<5	<0.05	4.6	0.4	27.8	0.1	<0.2	12.0	<0.2	52	880
A. 65.S	<5	0.05	4.6	0.2	37.8	<0.1	<0.2	9.0	<0.2	77	260
A. 66.S	<5	<0.05	6.8	0.2	85.0	0.1	<0.2	2.0	0.6	90	90
A. 67.S	45	<0.05	5.6	0.2	72.2	0.1	<0.2	2.5	0.4	88	10
A. 68.S	<5	0.05	8.4	<0.2	59.6	<0.1	<0.2	<0.5	0.6	63	30
A. 69.S	<5	<0.05	7.6	<0.2	86.2	<0.1	<0.2	2.5	0.6	85	90
A. 70.S	<5	0.05	41.2	0.8	11.0	<0.1	0.2	22.0	0.8	52	660
A. 71.S	<5	0.05	12.0	0.4	45.0	<0.1	0.8	14.5	0.2	63	340
A. 72.S	<5	0.05	6.8	0.2	6.6	0.1	0.4	6.0	0.2	13	40
A. 73.S	<5	<0.05	1.8	0.2	11.2	0.1	<0.2	5.0	<0.2	19	40
A. 74.S	<5	<0.05	2.2	<0.2	8.6	0.2	0.2	8.5	0.2	18	120
A. 75.S	<5	<0.05	12.4	0.2	5.0	0.5	0.2	5.0	0.2	6	30
A. 76.S	<5	0.05	7.2	0.4	49.6	2.1	0.8	6.5	0.2	111	120
A. 77.S	15	<0.05	2.8	0.4	46.6	<0.1	0.2	11.0	<0.2	76	580
A. 78.S	<5	<0.05	5.2	0.2	58.4	0.2	0.4	12.5	<0.2	75	320
A. 79.S	<5	<0.05	8.2	0.4	56.6	<0.1	1.0	18.0	0.8	104	400
B. 01.S	<5	0.05	2.2	0.4	45.4	<0.1	0.2	5.0	<0.2	90	140
B. 02.S	<5	0.05	6.0	0.2	68.4	<0.1	0.2	4.5	0.2	91	170
B. 03.S	30	<0.05	6.4	0.2	83.2	<0.1	<0.2	3.0	0.2	107	150
B. 04.S	<5	0.05	2.8	0.2	65.6	<0.1	0.2	4.5	0.2	100	180
B. 05.S	<5	0.05	11.6	0.4	48.2	<0.1	0.2	16.0	0.8	100	280
B. 06.S	<5	<0.05	0.8	0.2	44.0	<0.1	0.2	3.0	<0.2	82	100
B. 07.S	<5	0.05	6.0	0.4	31.4	<0.1	0.6	19.5	<0.2	72	320
B. 08.S	<5	0.05	10.6	0.6	55.0	<0.1	0.8	25.5	0.2	109	460
B. 09.S	<5	0.15	15.0	0.6	52.8	<0.1	0.8	31.0	0.4	116	580
B. 10.S	<5	0.10	3.2	0.2	45.2	<0.1	0.2	12.5	<0.2	87	320
B. 11.S	<5	0.10	9.8	0.6	50.4	0.2	0.4	24.5	0.2	99	420
B. 12.S	<5	0.05	4.2	0.2	52.4	0.1	0.2	9.0	1.0	108	200
B. 13.S	<5	<0.05	2.2	0.2	52.6	<0.1	0.2	2.5	3.8	82	160
B. 14.S	<5	0.05	4.0	0.2	72.6	0.1	0.4	5.0	0.2	91	170
B. 15.S	<5	0.05	9.4	0.2	57.8	0.1	0.2	2.5	0.2	99	140
B. 16.S	<5	0.05	5.0	0.4	48.2	0.1	0.6	19.5	0.2	89	320
B. 17.S	<5	0.05	4.6	0.4	29.0	0.1	0.6	22.5	0.2	57	300
B. 18.S	<5	0.05	4.6	0.4	57.8	0.1	0.6	16.5	0.2	97	370
B. 20.S	<5	0.05	9.6	0.6	54.8	<0.1	0.8	25.5	0.4	101	420

App. 2 Results of Chemical Analysis of Soil Samples(3/11)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
B. 21. S	<5	<0.05	4.4	0.4	58.6	0.5	0.4	2.5	2.4	94	140
B. 22. S	<5	<0.05	2.6	0.6	63.0	<0.1	0.6	6.5	0.2	101	140
B. 25. S	<5	0.05	8.4	0.6	47.6	<0.1	0.8	27.0	0.4	105	520
B. 26. S	<5	0.05	19.0	0.8	23.4	<0.1	0.8	22.5	<0.2	64	540
B. 27. S	<5	0.10	26.4	0.8	63.8	<0.1	2.8	24.0	0.4	86	400
B. 28. S	<5	0.05	15.0	0.8	41.0	<0.1	1.4	22.0	1.6	85	460
B. 29. S	<5	0.05	11.8	0.8	40.8	<0.1	1.4	29.0	2.0	87	360
B. 30. S	<5	0.10	1.2	0.8	40.8	<0.1	1.0	14.0	<0.2	86	500
B. 32. S	<5	0.05	1.4	0.2	43.0	<0.1	0.2	3.5	<0.2	92	100
B. 35. S	<5	<0.05	0.6	0.2	38.2	<0.1	0.2	1.5	0.4	84	60
B. 37. S	<5	<0.05	<0.2	0.2	47.6	<0.1	<0.2	1.0	2.4	67	40
B. 38. S	<5	<0.05	3.0	0.6	62.4	0.1	<0.2	2.5	1.2	59	<10
B. 39. S	<5	<0.05	5.2	0.2	70.8	<0.1	<0.2	2.0	0.8	76	20
B. 40. S	<5	0.05	3.4	0.4	80.2	<0.1	0.2	1.0	<0.2	77	40
B. 41. S	<5	<0.05	2.6	0.4	61.2	<0.1	0.2	2.0	<0.2	74	20
B. 42. S	<5	0.10	1.2	0.4	53.2	0.1	<0.2	2.0	0.4	65	40
B. 43. S	<5	0.05	0.6	0.4	66.8	0.1	0.2	1.0	4.6	67	20
B. 44. S	<5	0.05	1.6	0.4	47.8	<0.1	0.2	3.0	0.8	71	80
B. 45. S	<5	<0.05	0.4	0.2	66.4	<0.1	<0.2	1.0	2.4	97	50
B. 46. S	<5	<0.05	<0.2	0.2	39.2	<0.1	<0.2	2.0	3.0	43	20
B. 47. S	<5	<0.05	1.2	0.4	48.4	<0.1	<0.2	1.0	2.0	85	30
B. 48. S	<5	<0.05	2.2	0.2	48.2	<0.1	<0.2	4.0	0.2	76	80
B. 49. S	<5	0.05	6.2	0.4	23.2	<0.1	0.6	22.5	0.4	54	450
B. 50. S	<5	0.05	6.4	0.4	39.4	<0.1	0.6	25.0	1.6	80	440
B. 51. S	<5	<0.05	10.0	0.4	33.2	0.3	0.6	18.0	0.2	55	600
B. 52. S	<5	0.05	14.8	0.8	37.8	<0.1	1.2	21.0	0.6	55	460
B. 53. S	<5	0.05	8.6	0.6	33.2	0.1	1.2	40.0	<0.2	95	400
B. 56. S	<5	0.05	7.2	0.4	22.8	<0.1	0.8	19.0	<0.2	65	540
B. 57. S	<5	0.10	10.6	0.6	36.8	0.2	0.8	23.5	0.2	83	620
B. 58. S	<5	0.05	7.0	0.4	28.8	<0.1	0.6	17.5	<0.2	65	580
B. 59. S	30	0.10	15.2	0.6	44.4	0.3	0.6	18.5	0.4	96	580
B. 60. S	<5	0.05	2.4	0.2	110.5	0.3	<0.2	3.0	0.2	93	140
B. 61. S	40	0.05	5.4	0.4	50.6	<0.1	0.2	8.0	0.6	71	200
B. 62. S	10	0.05	2.2	0.2	65.4	0.1	0.2	6.0	0.4	86	160
B. 63. S	<5	0.05	2.0	0.2	58.4	0.1	0.2	8.5	<0.2	71	260
B. 64. S	10	<0.05	7.4	0.8	47.0	<0.1	0.4	20.0	0.4	75	540
B. 65. S	<5	<0.05	3.0	0.4	69.8	0.2	0.2	11.0	<0.2	76	300
B. 66. S	<5	0.10	3.4	0.4	59.6	0.4	0.2	9.5	0.2	69	380
B. 67. S	<5	0.05	4.0	0.4	38.6	0.4	0.4	9.0	<0.2	64	350
B. 68. S	<5	0.05	4.8	0.4	30.0	<0.1	0.4	8.5	<0.2	47	260
B. 69. S	<5	0.05	7.2	0.6	26.4	0.1	1.2	18.0	<0.2	23	400
B. 70. S	<5	<0.05	9.2	0.6	51.4	<0.1	1.0	15.5	<0.2	106	560
B. 71. S	<5	<0.05	8.2	0.8	76.0	<0.1	0.6	15.0	0.2	68	520
B. 72. S	<5	0.05	11.6	0.6	50.6	0.2	1.2	31.5	0.4	62	600
B. 73. S	<5	0.05	10.6	0.6	67.6	0.1	0.8	20.5	0.4	118	540
B. 74. S	<5	<0.05	5.0	1.0	12.8	<0.1	0.2	27.0	<0.2	60	1020
B. 75. S	<5	<0.05	6.6	2.2	7.2	<0.1	0.4	66.0	<0.2	41	950
B. 76. S	<5	<0.05	4.4	0.8	16.4	<0.1	0.2	20.0	<0.2	62	1000
B. 77. S	<5	<0.05	3.4	1.0	13.2	<0.1	0.2	17.0	<0.2	66	1100

App. 2 Results of Chemical Analysis of Soil Samples(4/11)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
B. 78. S	<5	0.05	4.2	1.4	10.0	<0.1	0.2	35.0	<0.2	58	1150
B. 79. S	<5	<0.05	2.4	0.6	15.0	<0.1	0.2	17.0	<0.2	43	1180
B. 80. S	<5	0.05	4.2	0.8	43.2	<0.1	0.2	14.5	<0.2	74	760
C. 01. S	<5	<0.05	9.0	1.0	31.4	0.1	0.2	10.0	0.2	54	320
C. 02. S	<5	<0.05	5.2	0.6	33.8	<0.1	<0.2	2.0	<0.2	39	100
C. 03. S	<5	0.05	8.6	0.2	47.8	<0.1	0.2	13.5	<0.2	65	400
C. 04. S	<5	0.05	19.2	0.4	40.6	<0.1	0.2	21.5	0.6	81	360
C. 08. S	<5	0.05	8.8	0.2	124.5	<0.1	0.2	5.0	0.6	105	100
C. 10. S	<5	0.05	14.6	0.4	173.5	0.1	0.4	7.5	0.8	144	110
C. 12. S	<5	<0.05	8.0	0.2	29.8	<0.1	0.2	12.0	<0.2	59	240
C. 13. S	<5	0.05	33.2	0.4	45.8	<0.1	0.2	18.5	0.6	90	340
C. 14. S	<5	0.05	7.0	0.4	35.4	<0.1	0.2	16.0	<0.2	81	280
C. 15. S	<5	0.15	9.4	0.6	49.0	<0.1	0.2	22.5	<0.2	83	340
C. 16. S	<5	0.10	12.8	0.4	42.6	0.1	0.2	27.5	0.4	62	950
C. 17. S	<5	<0.05	16.6	0.2	40.0	<0.1	0.2	22.0	2.4	78	300
C. 18. S	<5	0.10	64.0	<0.2	351	0.1	0.2	1.5	0.2	109	80
C. 19. S	<5	0.10	74.6	0.4	289	0.3	0.4	2.0	3.0	109	60
C. 20. S	<5	0.10	14.0	0.2	97.6	0.2	0.4	11.0	0.2	116	220
C. 21. S	<5	<0.05	5.6	0.4	26.8	<0.1	<0.2	15.5	<0.2	53	580
C. 22. S	<5	<0.05	32.4	0.2	50.4	<0.1	<0.2	3.0	0.4	50	120
C. 23. S	<5	0.05	12.0	0.4	37.0	<0.1	0.2	14.5	1.0	60	560
C. 24. S	<5	<0.05	3.0	0.6	48.0	<0.1	<0.2	2.0	<0.2	46	60
C. 26. S	<5	<0.05	7.2	0.4	41.2	<0.1	<0.2	10.0	0.2	33	120
C. 28. S	<5	<0.05	46.2	0.4	38.6	<0.1	0.2	13.0	2.6	63	180
C. 30. S	<5	<0.05	15.2	0.2	33.0	<0.1	<0.2	11.5	<0.2	64	190
C. 32. S	<5	<0.05	8.0	0.4	38.8	<0.1	0.4	23.5	<0.2	50	830
C. 34. S	<5	0.05	4.6	0.2	31.6	<0.1	0.2	11.5	<0.2	56	220
C. 36. S	<5	<0.05	1.8	0.2	13.6	<0.1	<0.2	15.0	<0.2	37	180
C. 37. S	<5	0.05	44.2	0.4	39.0	0.1	0.6	15.0	1.0	60	280
C. 38. S	<5	<0.05	2.2	0.2	18.0	<0.1	<0.2	8.0	<0.2	42	220
C. 39. S	<5	<0.05	5.4	0.4	28.8	<0.1	<0.2	11.5	<0.2	57	180
C. 40. S	<5	<0.05	2.6	<0.2	21.4	<0.1	<0.2	8.5	<0.2	47	260
C. 41. S	<5	0.05	1.8	0.2	20.8	<0.1	<0.2	8.0	<0.2	34	170
C. 42. S	<5	<0.05	3.4	0.2	21.2	0.1	<0.2	9.5	<0.2	37	140
C. 43. S	<5	0.05	7.2	0.4	20.6	0.1	0.2	11.5	1.8	34	120
C. 44. S	<5	0.05	3.4	0.6	17.4	0.3	<0.2	16.5	<0.2	30	160
C. 45. S	<5	0.05	5.8	0.2	22.0	<0.1	<0.2	32.0	9.2	38	400
C. 46. S	<5	<0.05	8.4	0.4	58.8	<0.1	0.2	9.5	0.2	93	290
C. 47. S	<5	<0.05	4.4	1.0	17.2	<0.1	0.2	19.0	<0.2	52	1030
C. 48. S	<5	0.05	3.2	0.4	5.8	<0.1	0.2	30.5	<0.2	57	1100
C. 49. S	<5	0.05	3.8	0.2	8.0	<0.1	0.2	26.5	<0.2	43	1080
C. 51. S	<5	<0.05	1.2	0.2	71.4	<0.1	<0.2	1.0	<0.2	105	60
C. 54. S	<5	<0.05	1.0	0.2	58.6	<0.1	<0.2	0.5	<0.2	84	40
C. 55. S	<5	<0.05	0.2	<0.2	62.8	<0.1	<0.2	<0.5	<0.2	76	50
C. 56. S	<5	<0.05	1.4	<0.2	44.4	<0.1	<0.2	0.5	<0.2	64	60
C. 57. S	<5	<0.05	3.0	0.2	42.0	<0.1	<0.2	1.5	<0.2	60	60
C. 58. S	<5	<0.05	2.2	0.4	50.4	<0.1	<0.2	1.0	0.4	46	40
C. 59. S	<5	<0.05	7.6	0.6	56.8	<0.1	0.8	20.0	<0.2	104	660
C. 60. S	<5	0.10	7.2	0.6	28.2	<0.1	1.0	22.0	<0.2	55	470

App. 2 Results of Chemical Analysis of Soil Samples(5/11)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
C. 61. S	<5	0.10	7.4	0.6	29.4	<0.1	1.0	30.0	<0.2	40	540
C. 62. S	<5	0.10	11.4	0.8	25.2	<0.1	2.4	21.0	0.6	25	520
C. 63. S	<5	0.10	10.0	0.6	30.0	<0.1	1.4	28.0	0.2	35	440
C. 64. S	<5	0.15	7.8	0.8	20.2	<0.1	1.0	18.5	<0.2	17	360
C. 65. S	<5	0.15	7.6	0.8	28.4	<0.1	0.8	19.5	0.2	18	400
C. 66. S	<5	0.10	12.0	0.8	24.8	0.1	1.0	15.5	0.4	17	410
C. 67. S	<5	0.10	7.6	0.8	13.0	0.2	0.6	20.0	0.2	11	190
C. 68. S	<5	0.10	8.0	1.0	14.8	0.1	0.6	22.0	0.2	13	130
C. 69. S	<5	0.05	8.6	0.8	22.8	<0.1	0.8	19.0	<0.2	20	300
C. 70. S	<5	0.05	11.4	0.4	27.0	<0.1	1.0	16.5	<0.2	37	430
C. 71. S	<5	0.05	11.0	0.8	24.4	<0.1	1.2	18.0	0.2	17	370
C. 72. S	<5	0.05	8.2	0.4	15.4	<0.1	0.8	11.5	<0.2	11	340
C. 73. S	<5	<0.05	7.8	6.4	32.6	0.2	0.6	28.5	1.4	33	420
C. 74. S	<5	<0.05	11.6	13.2	12.0	<0.1	0.8	56.5	<0.2	29	1240
C. 75. S	75	<0.05	10.2	5.6	25.4	<0.1	0.6	55.0	<0.2	65	1090
C. 76. S	180	0.05	6.2	1.8	30.8	<0.1	0.4	28.5	0.4	28	730
C. 77. S	120	0.05	43.4	0.6	162.5	0.2	0.2	34.5	2.2	51	140
C. 78. S	30	0.05	6.4	0.4	49.0	<0.1	0.2	13.5	0.8	65	180
C. 79. S	10	<0.05	3.0	0.2	81.4	<0.1	<0.2	3.0	0.2	95	50
C. 80. S	20	<0.05	2.8	0.2	47.6	<0.1	<0.2	5.0	0.4	52	50
C. 81. S	120	0.05	24.2	0.2	46.6	<0.1	0.6	12.5	0.4	90	260
C. 82. S	30	<0.05	14.0	0.4	102.0	<0.1	0.2	7.0	0.6	45	40
C. 83. S	15	<0.05	4.2	0.2	620	<0.1	<0.2	1.0	<0.2	116	20
C. 84. S	<5	<0.05	1.0	0.2	78.0	<0.1	<0.2	1.0	<0.2	76	20
C. 85. S	<5	<0.05	0.6	<0.2	61.6	<0.1	<0.2	1.0	<0.2	91	30
C. 86. S	<5	<0.05	<0.2	0.2	67.6	<0.1	<0.2	0.5	<0.2	73	30
C. 87. S	<5	<0.05	0.2	0.2	57.0	<0.1	<0.2	1.5	<0.2	1080	20
C. 88. S	<5	<0.05	<0.2	<0.2	64.8	<0.1	<0.2	0.5	<0.2	108	20
C. 89. S	<5	<0.05	0.4	<0.2	61.8	0.2	<0.2	<0.5	0.2	81	20
C. 90. S	<5	<0.05	0.4	<0.2	73.4	<0.1	<0.2	0.5	0.2	371	20
C. 91. S	<5	<0.05	0.2	<0.2	72.6	0.1	<0.2	0.5	<0.2	105	30
C. 92. S	<5	<0.05	1.4	<0.2	18.2	<0.1	<0.2	0.5	<0.2	88	20
C. 93. S	<5	<0.05	<0.2	<0.2	52.6	<0.1	<0.2	0.5	0.2	88	40
C. 94. S	<5	<0.05	2.0	<0.2	67.4	0.1	<0.2	0.5	0.4	77	40
C. 95. S	<5	<0.05	0.4	<0.2	71.8	<0.1	<0.2	1.0	<0.2	65	20
C. 96. S	<5	<0.05	0.6	<0.2	85.6	<0.1	<0.2	0.5	0.4	68	20
C. 97. S	<5	<0.05	1.6	<0.2	103.0	<0.1	<0.2	0.5	0.6	91	<10
C. 99. S	<5	<0.05	1.2	<0.2	68.8	<0.1	<0.2	0.5	<0.2	66	20
D. 01. S	<5	0.05	2.2	0.4	12.8	<0.1	<0.2	8.5	<0.2	14	40
D. 02. S	<5	0.05	5.4	0.8	38.2	<0.1	<0.2	16.0	0.2	57	80
D. 03. S	<5	0.10	2.8	0.6	17.8	<0.1	0.2	7.5	0.6	16	50
D. 04. S	<5	0.05	5.2	0.6	30.8	0.1	0.2	11.0	0.8	23	80
D. 05. S	<5	0.05	2.8	0.2	4.4	0.1	<0.2	4.5	0.2	5	50
D. 06. S	<5	0.05	6.0	0.6	27.8	0.3	0.4	9.5	0.6	32	80
D. 07. S	<5	0.05	3.8	0.6	18.6	0.1	0.4	7.5	0.4	11	50
D. 08. S	<5	<0.05	1.8	0.4	27.0	0.3	0.2	12.0	<0.2	45	50
D. 09. S	<5	<0.05	3.4	0.4	33.8	<0.1	<0.2	9.5	0.2	50	90
D. 10. S	<5	<0.05	10.0	0.4	27.4	0.2	<0.2	11.5	1.4	44	90
D. 11. S	<5	<0.05	2.6	0.4	32.4	0.3	<0.2	13.0	<0.2	39	100

App. 2 Results of Chemical Analysis of Soil Samples(6/11)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
D. 12. S	<5	<0.05	4.0	0.4	8.0	<0.1	0.2	3.0	0.2	12	60
D. 13. S	<5	<0.05	10.2	0.4	26.4	0.3	<0.2	12.5	0.4	46	130
D. 14. S	<5	<0.05	2.6	0.2	30.4	0.2	0.2	9.0	<0.2	68	140
D. 15. S	<5	<0.05	3.8	0.2	40.8	<0.1	0.2	12.5	<0.2	76	180
D. 16. S	<5	<0.05	2.6	0.2	26.4	<0.1	<0.2	12.0	<0.2	72	300
D. 17. S	<5	<0.05	4.0	0.4	33.4	<0.1	<0.2	12.0	<0.2	70	180
D. 18. S	<5	<0.05	2.0	0.2	24.4	<0.1	<0.2	16.5	<0.2	44	120
D. 19. S	<5	<0.05	2.8	0.2	35.6	<0.1	<0.2	15.0	<0.2	77	330
D. 20. S	<5	<0.05	3.4	0.2	26.4	<0.1	0.2	13.0	<0.2	52	190
D. 21. S	<5	<0.05	9.4	0.2	24.0	<0.1	0.6	12.0	0.2	35	200
D. 22. S	<5	<0.05	6.8	0.4	51.4	<0.1	<0.2	29.0	0.2	96	260
D. 23. S	<5	<0.05	5.6	0.4	40.8	<0.1	0.2	24.5	<0.2	109	260
D. 24. S	<5	0.10	6.8	0.4	15.2	<0.1	1.4	44.0	0.2	34	180
D. 25. S	<5	<0.05	6.8	0.2	42.2	0.2	1.0	11.5	0.6	44	100
D. 26. S	<5	<0.05	0.6	0.2	11.6	<0.1	0.2	10.5	<0.2	41	300
D. 27. S	<5	<0.05	0.8	<0.2	5.0	<0.1	<0.2	17.5	<0.2	35	340
D. 28. S	<5	0.05	2.0	<0.2	48.8	<0.1	<0.2	19.5	<0.2	50	960
D. 29. S	<5	<0.05	4.4	0.2	49.2	<0.1	<0.2	10.5	<0.2	101	220
D. 30. S	<5	0.10	7.6	0.6	87.6	<0.1	1.0	70.5	0.6	170	310
D. 31. S	<5	<0.05	1.8	<0.2	71.0	<0.1	<0.2	17.5	<0.2	103	1360
D. 32. S	<5	0.05	2.2	<0.2	109.0	<0.1	<0.2	5.0	<0.2	112	240
D. 33. S	<5	<0.05	2.0	<0.2	39.0	<0.1	<0.2	3.5	<0.2	52	170
D. 34. S	<5	<0.05	1.0	<0.2	44.6	<0.1	0.4	10.0	<0.2	37	340
D. 35. S	<5	<0.05	6.0	0.2	35.8	0.2	0.4	14.5	0.2	44	160
D. 36. S	<5	<0.05	8.2	0.2	46.0	0.1	0.2	21.0	<0.2	82	190
D. 37. S	<5	<0.05	2.6	0.2	35.6	<0.1	0.4	17.0	<0.2	62	150
D. 38. S	<5	0.05	6.6	0.4	34.4	<0.1	0.8	22.0	<0.2	68	350
D. 39. S	<5	0.10	4.0	0.2	23.0	<0.1	0.8	22.0	<0.2	59	310
D. 40. S	<5	0.05	2.4	0.2	30.0	<0.1	0.2	11.0	<0.2	63	300
D. 41. S	<5	0.15	4.4	0.2	25.6	<0.1	0.8	24.5	<0.2	64	380
D. 42. S	<5	0.05	6.8	0.4	26.0	<0.1	0.8	19.5	<0.2	49	340
D. 43. S	<5	<0.05	10.0	0.4	39.0	<0.1	1.0	29.5	0.2	97	400
D. 44. S	<5	0.05	4.2	0.2	20.4	<0.1	0.6	16.0	<0.2	52	320
D. 45. S	<5	0.05	5.2	0.2	28.0	<0.1	0.4	22.5	<0.2	79	460
D. 46. S	<5	<0.05	3.8	0.2	12.4	<0.1	0.8	43.5	<0.2	36	440
D. 47. S	<5	0.10	12.4	0.4	35.6	<0.1	1.0	24.0	0.6	80	460
D. 48. S	<5	0.05	10.2	0.2	41.2	<0.1	1.2	9.5	0.4	80	360
D. 49. S	<5	0.05	4.8	<0.2	14.2	<0.1	0.2	12.0	<0.2	61	260
D. 50. S	<5	0.05	3.8	0.2	46.6	<0.1	0.2	3.0	<0.2	77	140
D. 51. S	<5	<0.05	4.0	0.4	69.0	<0.1	0.2	2.5	2.4	105	30
D. 52. S	<5	<0.05	1.6	0.2	50.0	<0.1	0.2	1.5	2.2	92	20
D. 53. S	<5	0.05	6.0	0.2	66.2	<0.1	0.2	2.5	0.4	83	100
D. 54. S	<5	<0.05	5.6	0.6	36.6	<0.1	0.2	31.5	<0.2	90	280
D. 55. S	<5	0.05	1.6	0.4	32.8	<0.1	0.2	7.0	0.2	61	80
D. 56. S	<5	0.05	1.4	0.2	10.2	<0.1	0.6	46.0	<0.2	47	390
D. 57. S	<5	<0.05	4.4	0.4	3.8	<0.1	0.6	18.5	<0.2	25	240
D. 58. S	<5	<0.05	0.6	<0.2	25.4	<0.1	<0.2	9.0	<0.2	28	30
D. 59. S	<5	<0.05	0.6	0.2	51.8	<0.1	<0.2	1.5	<0.2	40	20
D. 60. S	<5	0.05	4.0	<0.2	31.2	<0.1	<0.2	6.0	<0.2	40	30

App. 2 Results of Chemical Analysis of Soil Samples(7/11)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
D. 61. S	<5	<0.05	1.8	0.2	46.6	<0.1	<0.2	0.5	0.2	32	40
D. 62. S	<5	<0.05	2.4	0.2	59.0	<0.1	<0.2	<0.5	0.2	55	50
D. 63. S	<5	0.40	2.2	0.2	51.2	<0.1	0.2	6.5	0.4	77	80
D. 64. S	<5	<0.05	6.4	0.4	60.8	<0.1	0.4	16.0	0.4	80	340
D. 65. S	<5	<0.05	3.0	0.4	18.4	<0.1	<0.2	18.5	<0.2	38	320
D. 66. S	<5	0.05	6.4	0.2	54.2	<0.1	<0.2	2.0	0.8	85	100
D. 68. S	<5	<0.05	4.6	<0.2	0.8	<0.1	0.6	5.5	0.2	21	440
D. 69. S	<5	<0.05	9.2	0.6	16.0	<0.1	0.4	20.5	0.4	33	150
D. 71. S	<5	<0.05	15.0	0.2	45.2	<0.1	0.2	5.5	1.2	48	50
D. 72. S	<5	<0.05	12.2	0.2	6.8	<0.1	0.2	4.5	0.6	13	50
D. 74. S	<5	<0.05	3.6	0.2	3.0	<0.1	0.4	5.5	0.4	22	50
D. 76. S	<5	<0.05	11.8	0.2	7.6	<0.1	0.4	3.0	1.0	20	150
D. 78. S	<5	<0.05	9.4	0.2	18.0	<0.1	0.2	10.0	<0.2	45	190
D. 79. S	<5	<0.05	5.8	0.2	50.6	<0.1	<0.2	3.0	0.4	77	60
D. 80. S	<5	<0.05	16.6	1.0	36.8	<0.1	1.2	29.5	1.0	100	650
D. 81. S	<5	<0.05	16.4	0.6	48.0	<0.1	0.8	29.0	1.0	111	550
D. 82. S	<5	0.05	1.6	0.4	379	<0.1	<0.2	6.0	0.2	130	170
D. 83. S	<5	<0.05	2.4	0.2	96.4	<0.1	<0.2	2.5	0.4	115	20
D. 84. S	<5	0.05	13.2	0.2	86.8	<0.1	0.2	3.0	1.2	263	60
D. 85. S	<5	0.05	2.4	0.2	88.8	<0.1	0.2	1.5	<0.2	92	20
D. 86. S	<5	0.10	2.0	0.2	76.8	<0.1	0.2	2.0	0.2	149	40
D. 87. S	<5	0.10	6.2	0.4	65.8	<0.1	0.4	11.0	0.4	118	350
D. 88. S	<5	0.05	4.4	0.6	39.4	0.2	0.4	31.0	0.6	102	580
D. 89. S	<5	<0.05	8.6	0.4	53.0	<0.1	0.8	26.5	0.4	124	500
D. 90. S	<5	<0.05	5.2	0.2	43.4	<0.1	0.4	6.5	1.0	78	130
D. 91. S	<5	<0.05	11.0	0.4	49.6	<0.1	0.8	18.5	2.0	87	340
D. 92. S	<5	0.05	11.8	0.4	34.4	<0.1	0.6	20.0	1.0	90	260
D. 93. S	<5	0.05	13.0	0.2	48.2	<0.1	0.8	31.0	1.2	106	300
D. 94. S	<5	<0.05	7.2	<0.2	65.0	<0.1	0.8	10.0	0.6	85	240
D. 95. S	<5	<0.05	6.4	0.4	56.0	<0.1	0.4	17.5	1.2	120	380
D. 96. S	<5	0.05	10.0	0.2	16.4	3.2	0.4	9.0	0.4	71	200
D. 97. S	<5	<0.05	7.2	0.2	39.8	<0.1	0.6	13.5	<0.2	84	220
D. 98. S	<5	0.05	14.4	0.4	70.0	<0.1	1.2	21.5	1.2	134	480
D. 99. S	<5	<0.05	13.0	0.4	40.4	<0.1	0.8	10.0	0.6	77	350
D. 100. S	<5	0.20	142.0	0.8	53.4	<0.1	0.8	13.0	1.8	129	240
D. 101. S	<5	0.05	29.4	0.6	90.2	<0.1	0.6	6.0	2.0	63	230
D. 102. S	<5	0.10	126.5	0.2	18.4	0.3	0.6	4.5	1.0	38	140
D. 103. S	<5	0.15	45.6	<0.2	26.6	0.2	0.2	4.0	0.4	36	180
D. 104. S	<5	0.05	227	0.6	47.0	0.4	3.8	63.5	4.2	52	150
D. 105. S	<5	<0.05	5.8	<0.2	4.8	<0.1	<0.2	5.5	<0.2	34	100
D. 106. S	<5	0.05	5.0	0.2	32.8	<0.1	0.6	9.0	0.2	92	280
D. 107. S	<5	0.10	14.0	0.4	41.2	<0.1	0.4	10.0	0.2	68	290
D. 109. S	<5	0.05	6.8	0.2	17.8	<0.1	0.4	9.5	1.0	51	180
D. 110. S	<5	<0.05	9.8	<0.2	10.8	<0.1	0.2	9.5	<0.2	24	100
D. 111. S	<5	<0.05	18.6	0.4	51.6	<0.1	1.2	17.5	0.2	76	360
D. 112. S	<5	<0.05	330	<0.2	39.4	<0.1	1.2	33.0	0.8	115	300
D. 113. S	<5	<0.05	7.0	<0.2	58.6	<0.1	0.2	11.0	0.2	91	360
D. 114. S	<5	<0.05	9.2	0.4	32.4	<0.1	1.0	14.0	0.2	35	220
D. 115. S	<5	0.10	26.2	0.6	156.5	<0.1	2.0	37.0	1.2	126	360

App. 2 Results of Chemical Analysis of Soil Samples(8/11)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
D. 116. S	<5	0.15	10.4	0.4	56.8	<0.1	0.8	28.0	1.6	98	610
D. 117. S	<5	0.05	4.0	0.6	44.6	<0.1	0.4	17.5	<0.2	102	400
D. 118. S	<5	<0.05	3.2	0.4	75.8	<0.1	<0.2	3.0	<0.2	93	280
D. 119. S	<5	0.05	2.4	0.4	7.4	<0.1	0.2	10.0	<0.2	22	80
D. 122. S	<5	<0.05	0.6	0.2	3.4	<0.1	<0.2	8.5	<0.2	23	90
D. 123. S	<5	<0.05	0.2	0.2	4.8	<0.1	<0.2	11.0	<0.2	26	100
D. 124. S	<5	0.05	1.6	0.4	7.2	<0.1	0.2	8.0	<0.2	23	40
D. 125. S	<5	<0.05	0.6	0.4	2.0	<0.1	<0.2	14.5	<0.2	13	80
D. 126. S	<5	0.05	0.8	0.4	4.4	<0.1	0.4	16.0	<0.2	17	80
D. 127. S	<5	0.05	3.6	0.4	9.0	0.1	1.2	19.5	<0.2	15	80
E. 01. S	<5	<0.05	5.6	0.2	33.4	<0.1	<0.2	11.5	<0.2	89	190
E. 02. S	<5	<0.05	7.0	<0.2	40.6	<0.1	0.2	14.5	0.4	89	240
E. 03. S	<5	0.05	8.0	0.4	52.6	<0.1	0.2	18.0	0.8	105	280
E. 04. S	<5	<0.05	2.8	0.2	17.4	<0.1	<0.2	9.0	<0.2	55	220
E. 05. S	<5	0.05	3.8	0.2	35.0	<0.1	<0.2	20.5	0.2	90	360
E. 06. S	<5	<0.05	10.4	0.4	46.4	<0.1	0.2	14.5	<0.2	99	220
E. 07. S	<5	<0.05	3.6	0.2	40.6	<0.1	<0.2	16.0	0.2	84	300
E. 08. S	<5	0.05	5.4	0.2	38.8	<0.1	<0.2	16.0	0.6	91	380
E. 09. S	<5	0.05	5.4	0.6	37.4	<0.1	0.2	15.0	0.4	78	240
E. 10. S	<5	0.10	5.4	0.2	37.6	<0.1	0.2	14.0	0.4	90	260
E. 11. S	<5	0.10	7.8	0.6	63.6	<0.1	0.4	20.5	0.4	86	270
E. 12. S	<5	0.05	10.6	0.6	30.4	<0.1	0.2	13.0	0.4	81	220
E. 13. S	<5	0.05	16.8	0.6	37.0	<0.1	0.4	16.5	1.2	89	280
E. 14. S	<5	0.05	4.6	0.6	49.2	<0.1	0.4	26.0	0.4	91	340
E. 15. S	<5	0.05	8.0	0.6	45.0	<0.1	0.2	19.0	0.4	78	340
E. 16. S	<5	0.15	14.0	0.6	49.2	<0.1	0.4	17.5	1.0	86	260
E. 17. S	<5	0.10	16.6	0.6	53.8	0.1	0.4	25.0	0.8	107	280
E. 18. S	<5	<0.05	16.8	0.4	29.6	<0.1	0.6	15.5	0.4	67	210
E. 19. S	<5	0.05	8.0	0.6	18.0	<0.1	0.4	21.5	0.6	57	700
E. 20. S	<5	<0.05	7.8	0.4	22.8	<0.1	0.4	17.0	0.4	69	450
E. 21. S	<5	0.05	6.0	0.4	35.0	<0.1	0.2	21.5	<0.2	77	240
E. 22. S	<5	0.05	10.2	0.6	27.8	<0.1	0.4	17.0	0.4	79	360
E. 23. S	<5	<0.05	4.0	0.4	39.6	<0.1	0.2	12.0	<0.2	91	300
E. 24. S	<5	<0.05	3.2	0.2	13.0	<0.1	0.4	8.0	<0.2	46	240
E. 25. S	<5	<0.05	11.4	0.4	21.8	<0.1	0.2	10.5	0.2	57	180
E. 26. S	<5	0.05	5.4	0.4	34.4	<0.1	0.2	14.5	<0.2	97	300
E. 27. S	<5	<0.05	7.4	0.6	45.4	0.2	0.2	19.5	<0.2	92	240
E. 28. S	<5	0.10	10.4	0.6	45.0	<0.1	0.2	16.0	0.2	98	300
E. 29. S	<5	<0.05	18.4	0.6	42.6	<0.1	0.4	14.5	1.2	89	240
E. 30. S	<5	<0.05	7.4	0.2	29.4	<0.1	0.4	9.5	<0.2	69	220
E. 31. S	<5	<0.05	17.0	0.4	43.4	<0.1	0.4	17.5	0.6	94	160
E. 32. S	<5	<0.05	14.4	0.8	42.6	<0.1	0.8	16.5	0.4	93	300
E. 33. S	<5	<0.05	5.6	0.4	41.2	<0.1	0.2	10.5	<0.2	82	140
E. 34. S	<5	<0.05	5.2	0.2	16.8	<0.1	0.2	9.5	<0.2	31	140
E. 35. S	<5	<0.05	69.2	0.6	28.6	<0.1	0.4	13.5	1.6	42	180
E. 36. S	<5	<0.05	4.0	0.6	34.4	<0.1	0.4	10.0	<0.2	24	180
E. 37. S	<5	<0.05	4.4	0.6	64.2	<0.1	0.2	13.0	<0.2	94	180
E. 38. S	<5	<0.05	4.4	0.4	34.4	<0.1	0.8	14.0	<0.2	93	180
E. 39. S	<5	<0.05	4.0	0.2	37.0	0.3	0.2	10.0	0.8	75	170

App. 2 Results of Chemical Analysis of Soil Samples(9/11)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ra (ppm)
E. 40. S	<5	<0.05	5.4	0.4	39.4	0.2	<0.2	11.0	<0.2	81	210
E. 41. S	<5	<0.05	65.4	0.4	47.2	<0.1	0.6	14.0	12.6	99	140
E. 42. S	<5	0.05	13.2	0.4	43.0	<0.1	<0.2	18.5	0.6	93	340
E. 43. S	<5	0.05	11.2	0.4	13.4	<0.1	0.2	21.0	0.6	45	480
E. 44. S	<5	<0.05	11.4	0.4	25.8	<0.1	<0.2	16.5	<0.2	56	260
E. 45. S	<5	<0.05	7.8	0.2	32.4	<0.1	0.2	12.5	0.2	81	210
E. 46. S	<5	<0.05	8.2	0.4	38.8	<0.1	<0.2	14.5	<0.2	83	180
E. 47. S	<5	<0.05	3.8	0.4	22.4	<0.1	<0.2	8.0	0.2	59	200
E. 48. S	<5	<0.05	16.4	0.6	38.6	<0.1	<0.2	14.0	0.4	86	220
E. 49. S	<5	0.05	42.8	0.4	32.8	<0.1	<0.2	15.0	1.2	72	260
E. 50. S	<5	<0.05	3.8	0.4	31.6	<0.1	<0.2	13.0	<0.2	71	240
E. 52. S	<5	<0.05	15.8	0.4	45.6	<0.1	0.4	15.0	0.6	87	280
E. 54. S	<5	<0.05	2.6	0.2	18.2	0.1	<0.2	1.5	<0.2	38	100
E. 55. S	<5	0.05	63.4	0.6	98.2	<0.1	0.8	6.0	1.8	81	160
E. 56. S	<5	0.05	28.6	0.6	48.4	<0.1	0.4	12.5	0.8	81	360
E. 57. S	<5	<0.05	9.8	0.2	17.2	<0.1	0.2	20.0	0.4	56	320
E. 58. S	<5	0.05	2.4	0.6	31.4	<0.1	0.2	7.5	<0.2	74	1260
E. 59. S	<5	<0.05	5.2	0.4	69.2	0.1	0.2	10.5	<0.2	88	520
E. 60. S	<5	<0.05	7.6	0.4	42.0	0.3	0.4	14.5	<0.2	95	380
E. 61. S	<5	<0.05	4.2	0.4	48.8	<0.1	0.2	7.5	<0.2	82	390
E. 62. S	<5	<0.05	6.2	0.4	55.4	<0.1	0.2	8.5	<0.2	91	300
E. 63. S	<5	<0.05	4.2	0.4	55.6	<0.1	<0.2	7.0	<0.2	83	420
E. 64. S	<5	<0.05	4.2	0.6	51.8	<0.1	0.4	14.5	<0.2	84	440
E. 65. S	<5	0.05	6.4	0.4	21.8	<0.1	0.4	12.5	<0.2	52	380
E. 66. S	<5	0.15	16.4	0.6	61.4	0.1	1.8	49.5	0.6	132	660
E. 67. S	<5	0.25	10.6	2.2	45.2	<0.1	0.6	29.0	0.4	114	680
E. 68. S	<5	0.05	3.0	0.4	19.8	0.2	0.4	8.5	<0.2	42	420
E. 69. S	<5	<0.05	9.2	0.4	42.4	0.2	0.6	14.5	0.2	74	420
E. 70. S	<5	0.05	10.4	0.6	29.2	<0.1	0.2	13.5	0.6	77	320
E. 71. S	<5	0.10	4.4	0.8	36.0	<0.1	0.2	9.0	0.2	70	420
E. 72. S	<5	0.10	8.0	0.6	46.8	0.2	0.8	24.0	0.2	99	480
E. 73. S	<5	0.10	9.0	0.6	46.2	0.2	0.8	31.0	0.4	81	430
E. 74. S	<5	0.05	4.2	0.2	18.0	<0.1	0.6	14.0	0.2	37	360
E. 75. S	<5	0.10	8.8	0.6	44.8	0.2	0.6	21.0	0.2	88	580
E. 76. S	<5	0.05	8.2	0.8	37.6	<0.1	0.8	23.0	0.2	85	560
E. 77. S	<5	0.10	10.8	0.8	20.2	0.1	0.6	17.0	<0.2	55	460
E. 78. S	<5	0.10	14.2	0.6	36.0	0.2	1.0	20.0	0.4	69	540
E. 79. S	<5	<0.05	1.6	0.4	29.4	<0.1	<0.2	2.0	<0.2	51	150
E. 80. S	<5	0.05	5.6	0.8	58.6	<0.1	<0.2	6.0	0.2	71	220
E. 81. S	<5	0.20	5.6	0.6	19.0	<0.1	0.2	14.5	0.2	55	340
E. 82. S	<5	0.05	1.2	0.6	23.4	<0.1	<0.2	3.5	<0.2	58	150
E. 83. S	<5	0.15	7.6	0.4	32.4	0.1	0.6	27.0	0.4	77	540
E. 84. S	<5	0.15	16.0	1.0	47.8	<0.1	0.8	32.0	0.6	116	480
E. 85. S	<5	0.25	10.6	0.8	48.8	0.2	0.6	30.5	0.4	107	520
E. 86. S	<5	0.10	1.8	0.2	109.5	0.4	<0.2	1.0	0.4	54	260
E. 87. S	<5	<0.05	2.6	0.6	52.6	0.3	0.2	19.5	0.6	72	640
E. 88. S	<5	0.05	3.2	0.8	5.8	0.2	<0.2	31.0	0.2	39	1240
E. 89. S	<5	0.10	2.2	0.2	4.2	<0.1	<0.2	17.5	<0.2	49	1160
E. 90. S	<5	0.05	6.8	0.6	17.4	0.3	0.2	29.5	0.8	60	1140

App. 2 Results of Chemical Analysis of Soil Samples(1 0/1 1)

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ba (ppm)
E. 91. S	<5	0.05	15.0	11.8	28.2	0.4	0.6	42.5	0.4	83	1260
E. 92. S	<5	0.05	2.2	0.2	32.4	0.2	<0.2	4.0	0.4	64	420
E. 93. S	<5	0.05	1.8	0.4	39.6	0.3	<0.2	11.5	0.6	67	60
E. 94. S	<5	0.05	1.2	0.2	102.5	0.2	<0.2	0.5	0.6	101	40
E. 95. S	<5	0.05	11.4	0.8	37.6	0.4	0.8	15.5	0.6	44	440
E. 96. S	<5	0.05	4.8	0.4	76.2	0.1	0.2	22.0	1.0	87	320
E. 97. S	<5	0.25	4.4	0.6	19.0	<0.1	0.2	28.0	<0.2	72	930
E. 98. S	<5	0.05	5.8	0.4	15.4	<0.1	0.6	16.5	0.2	46	600
E. 99. S	<5	0.05	9.6	0.6	28.2	<0.1	0.6	23.0	<0.2	73	540
E. 100. S	<5	0.10	8.8	0.6	23.6	0.1	0.4	25.0	<0.2	70	960
E. 101. S	<5	0.20	8.8	0.6	30.8	<0.1	0.8	21.5	<0.2	89	620
E. 102. S	<5	0.35	10.4	0.4	56.6	<0.1	0.4	22.0	1.2	153	280
E. 103. S	<5	0.05	7.6	0.6	19.4	<0.1	0.4	27.0	<0.2	65	880
E. 104. S	<5	0.15	14.2	1.0	22.6	<0.1	0.6	39.0	0.6	70	920
E. 105. S	<5	0.05	8.4	0.6	76.4	<0.1	0.4	18.5	1.2	89	400
E. 106. S	<5	0.15	5.6	1.4	16.8	<0.1	0.2	40.5	0.4	78	1340
E. 107. S	<5	0.05	4.2	1.6	7.6	<0.1	0.4	60.5	0.2	56	620
E. 108. S	<5	0.05	11.6	1.0	32.4	<0.1	1.0	33.0	0.8	83	720
E. 109. S	<5	0.05	3.6	0.4	94.0	<0.1	<0.2	6.0	0.2	81	260
E. 110. S	<5	0.05	4.4	0.4	80.4	<0.1	<0.2	5.0	0.2	90	480
E. 111. S	<5	0.05	10.4	0.6	74.2	<0.1	0.2	10.5	<0.2	211	420
E. 112. S	<5	0.10	11.6	21.2	25.2	<0.1	0.4	42.5	0.8	106	1600
E. 113. S	<5	0.05	1.8	0.4	65.0	<0.1	0.2	9.5	0.8	466	320
E. 114. S	<5	0.10	1.8	0.2	55.2	<0.1	<0.2	6.0	1.2	102	280
E. 115. S	25	0.15	4.4	0.4	72.6	<0.1	0.2	52.5	1.0	188	500
E. 116. S	10	0.15	4.6	0.2	124.0	<0.1	0.2	28.0	1.8	283	420
E. 117. S	60	0.20	3.4	0.4	120.5	<0.1	<0.2	12.5	1.0	438	120
E. 118. S	<5	0.10	3.2	0.4	123.5	<0.1	<0.2	11.5	1.2	292	100
E. 119. S	20	0.05	5.0	0.4	134.0	<0.1	<0.2	2.0	0.2	797	80
E. 120. S	<5	0.05	3.8	0.8	18.0	<0.1	0.2	26.0	<0.2	67	1420
E. 121. S	<5	0.05	2.4	0.4	114.0	<0.1	<0.2	3.0	0.2	637	160
E. 122. S	<5	0.05	4.4	0.8	49.2	<0.1	0.2	27.5	0.6	101	1160
E. 123. S	<5	0.10	3.0	0.6	39.6	<0.1	<0.2	7.5	0.2	73	660
E. 124. S	<5	0.05	4.4	0.6	186.0	0.2	0.2	20.0	0.4	363	900
E. 125. S	<5	0.10	9.0	0.6	61.2	<0.1	0.2	26.0	0.8	155	880
F. 01. S	<5	0.05	15.0	1.6	20.8	<0.1	0.4	16.0	1.2	55	360
F. 02. S	<5	<0.05	7.0	1.4	36.0	<0.1	0.2	20.5	<0.2	76	390
F. 03. S	<5	0.05	8.4	1.0	25.8	<0.1	0.4	19.0	0.2	74	500
F. 04. S	<5	0.05	24.2	1.2	38.6	<0.1	0.8	21.0	<0.2	75	520
F. 05. S	<5	<0.05	3.6	1.6	46.8	<0.1	0.2	11.0	<0.2	70	20
F. 06. S	<5	0.10	82.4	1.2	23.8	<0.1	0.8	23.0	0.8	64	500
F. 07. S	<5	0.10	30.6	1.4	36.4	<0.1	0.6	21.5	0.4	77	480
F. 08. S	<5	0.15	44.2	1.4	46.6	<0.1	0.8	28.5	0.6	110	620
F. 09. S	<5	0.10	10.8	1.4	29.8	<0.1	0.6	20.0	<0.2	62	630
F. 10. S	<5	0.05	15.6	1.4	14.2	<0.1	0.4	20.0	0.2	52	630
F. 11. S	<5	0.10	12.4	1.2	7.2	<0.1	0.2	25.5	0.2	52	520
F. 12. S	<5	0.05	7.2	1.2	16.4	<0.1	0.2	18.0	<0.2	57	1000
F. 13. S	<5	0.05	14.6	1.2	25.0	<0.1	0.6	19.5	<0.2	54	500

App. 2 Results of Chemical Analysis of Soil Samples(1 1 / 1 1)

Sample No.	Au (ppb)	Ag (ppa)	As (ppa)	Bi (ppa)	Cu (ppa)	Hg (ppa)	Mo (ppm)	Pb (ppa)	Sb (ppa)	Zn (ppa)	Ba (ppm)
F. 14. S	<5	0.05	8.4	1.2	31.4	<0.1	0.2	14.0	<0.2	64	600
F. 15. S	<5	<0.05	2.2	1.0	26.6	<0.1	<0.2	9.5	<0.2	66	420
F. 16. S	<5	0.10	216	1.8	44.8	<0.1	0.8	32.0	4.2	80	420
F. 17. S	<5	0.05	15.0	2.0	31.2	<0.1	0.8	37.0	0.4	71	1000
F. 18. S	<5	0.10	59.0	1.6	35.0	0.1	4.2	58.5	1.4	75	1200
F. 19. S	<5	0.05	15.8	1.6	35.2	<0.1	0.4	36.5	<0.2	81	680
F. 20. S	15	0.10	8.0	1.6	24.4	0.2	0.4	26.5	<0.2	60	1000
F. 21. S	<5	<0.05	2.8	1.4	26.8	<0.1	<0.2	15.0	<0.2	85	460
F. 22. S	<5	<0.05	3.0	1.2	26.4	0.1	<0.2	11.0	<0.2	67	420
F. 23. S	<5	0.05	3.0	0.6	14.4	0.1	<0.2	8.5	<0.2	57	460
F. 24. S	<5	<0.05	2.8	1.0	15.8	<0.1	0.2	8.5	<0.2	49	360
F. 25. S	<5	0.05	2.0	0.8	19.4	0.1	<0.2	13.0	<0.2	73	520
F. 26. S	<5	<0.05	2.6	1.2	16.2	<0.1	<0.2	7.0	<0.2	62	300
F. 27. S	<5	<0.05	7.4	1.0	20.0	0.2	0.2	15.0	0.8	56	300
F. 28. S	<5	<0.05	5.4	0.8	13.0	<0.1	<0.2	8.5	<0.2	38	180
F. 29. S	<5	<0.05	8.0	1.2	27.0	0.2	<0.2	11.0	0.4	80	260
F. 30. S	<5	<0.05	3.2	1.2	21.2	<0.1	<0.2	5.0	<0.2	55	200
F. 31. S	<5	<0.05	3.0	1.0	28.2	<0.1	<0.2	11.5	<0.2	58	240
F. 32. S	<5	0.05	5.4	1.0	22.8	<0.1	0.2	10.5	<0.2	73	260
F. 33. S	<5	<0.05	8.2	1.2	25.2	0.2	<0.2	8.5	0.2	73	200
F. 34. S	<5	<0.05	1.8	0.8	20.4	<0.1	<0.2	9.0	<0.2	60	260

App. 3 Results of Chemical Analysis of Plant Leaves

Sample No.	Au ppb	As ppm	Sb ppm	Cu ppm	Pb ppm	Zn ppm	Ba ppm
3-1	<0.2	0.03	<0.005	16	1	60	220
25-1	<0.2	0.01	0.005	15	<1	49	7
28-1	0.2	<0.01	<0.005	15	1	52	6
30-1	<0.2	0.03	0.010	17	<1	58	5
32-1	0.2	0.01	0.005	17	<1	58	5
34-1	<0.2	0.01	0.005	14	<1	55	10
3-2	0.2	0.03	0.010	13	1	25	104
6-2	0.2	<0.01	0.005	3	1	20	40
8-2	0.2	0.08	0.025	123	2	17	20
23-2	<0.2	0.04	<0.005	8	2	24	12
25-2	<0.2	<0.01	0.005	7	<1	32	5
28-2	0.2	<0.01	0.010	6	2	17	4
30-2	<0.2	<0.01	0.010	6	1	19	4
32-2	<0.2	<0.01	0.005	5	<1	15	3
34-2	<0.2	<0.01	0.010	9	1	31	4
49-2	<0.2	0.06	0.010	6	1	17	9
3-3	<0.2	<0.01	0.010	10	1	44	640
6-3	<0.2	0.02	0.015	7	1	41	200
8-3	0.2	0.01	0.005	5	<1	35	130
23-3	0.2	<0.01	0.020	7	1	26	76
25-3	<0.2	0.04	0.035	6	<1	63	72
28-3	0.4	0.03	0.015	7	1	29	44
30-3	0.4	0.01	0.020	6	1	26	50
32-3	<0.2	0.17	0.010	5	<1	23	31
34-3	<0.2	0.01	0.025	8	1	25	42
49-3	0.2	<0.01	<0.005	6	2	40	106
6-4	0.2	0.04	0.025	9	1	20	82
8-4	0.2	0.02	0.030	11	<1	20	78
23-4	0.6	0.02	0.025	21	1	22	22
49-4	0.2	0.04	<0.005	10	2	31	29
3-5	<0.2	0.01	<0.005	5	5	29	220
6-5	<0.2	0.04	0.025	6	1	81	84
8-5	<0.2	0.05	0.005	12	1	34	73
23-5	<0.2	0.02	0.025	7	<1	80	31
25-5	<0.2	<0.01	0.025	8	1	70	11
28-5	<0.2	<0.01	0.050	10	1	43	8
30-5	<0.2	0.01	0.025	8	<1	90	14
32-5	<0.2	<0.01	0.020	9	<1	63	14
34-5	<0.2	<0.01	0.030	8	<1	66	22
49-5	0.2	0.02	<0.005	10	<1	31	36
3-6	0.2	<0.01	0.010	11	<1	26	220
6-6	0.4	<0.01	0.010	14	<1	28	36
8-6	0.6	0.01	0.035	17	<1	33	12
23-6	0.8	<0.01	0.015	15	1	30	6
25-6	0.2	0.03	0.010	15	1	26	4
28-6	0.8	0.02	0.035	18	<1	30	6
30-6	0.2	<0.01	0.015	15	<1	30	5
32-6	0.4	<0.01	0.010	15	<1	28	3
34-6	0.4	0.01	0.010	14	<1	23	11
49-6	0.2	<0.01	<0.005	15	<1	23	25

App. 4 Results of Pan Concentrate Observation(1/12)

Sample No.	Location	Observation by Loupe			Observation by Binocular-microscope																
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
A1P	S. Karataun	-	-	?	Py	-	-	-	-	T	T	C	R	R	-	R	R	-	T	-	-
A2P *	S. Karataun	-	-	-		-	-	-	-												
A3P	S. Karataun	-	1	1		-	-	2	-	-	-	R	R	R	-	R	R	-	T	-	-
A4P	S. Karataun	-	-	1	Mg	-	-	2	-	-	-	R	R	R	-	R	T	-	-	-	-
A5P	S. Karataun	-	1	5		-	2	9	-	T	-	R	R	-	T	R	T	T	-	-	-
A6P	S. Karataun	-	-	1		-	-	2	-	-	-	R	R	-	T	R	T	-	-	-	T
A7P	S. Karataun	-	1	-		-	1	1	-	T	-	R	R	R	T	R	R	T	-	-	-
A8P	S. Karataun	-	-	3		-	-	6	-	T	-	R	R	R	-	R	R	T	-	-	T
A9P	S. Karataun	-	-	3		-	-	3	-	T	-	R	R	-	-	R	R	T	-	-	-
A10P	S. Karataun	-	-	-	Py, Mg	-	-	-	-	R	R	R	R	C	R	R	T	T	-	-	-
A11P	S. Karataun	-	-	-	Cin, Py	-	-	-	-	R	R	T	R	R	T	C	T	T	-	-	-
A12P *	S. Karataun	-	-	-		-	-	-	-												
A13P	S. Karataun	-	-	-		-	-	-	-	-	R	R	R	R	R	C	T	-	-	-	-
A14P	S. Karataun	-	-	-		-	-	-	-	R	R	T	R	R	R	R	T	-	-	-	R
A15P *	S. Karataun	-	-	-		-	-	-	-												
A16P *	S. Karataun	-	-	-		-	-	-	-												
A17P *	S. Karataun	-	-	-		-	-	-	-												
A18P *	S. Karataun	-	-	-		-	-	-	-												
A19P	S. Karataun	-	1	-		-	-	1	-	T	-	R	C	C	T	R	T	-	-	-	T
A20P	S. Karataun	-	1	-	Mg	-	1	-	-	-	-	T	R	T	T	R	T	-	-	-	T
A21P *	S. Karataun	-	-	-		-	-	-	-												
A22P	S. Karataun	-	1	10	Cin	-	-	2	2	-	-	T	R	C	-	R	T	-	-	-	-
A23P *	S. Karataun	-	-	-		-	-	-	-												
A24P	S. Bullo	-	1	-		-	1	-	-	T	T	R	R	C	T	A	R	-	-	-	R
A25P *	S. Karataun	-	-	-		-	-	-	-												
A26P	S. Tarawa	-	1	4	Mg	-	-	5	-	-	R	T	R	-	T	R	-	-	-	-	C
A27P *	S. Au	-	-	-		-	-	-	-												
A28P *	S. Karataun	-	-	-		-	-	-	-												
A29P	S. Karataun	-	-	-	Cin	-	-	-	-	R	R	T	R	R	R	R	T	-	-	-	-
A30P *	S. Karataun	-	-	-		-	-	-	-												
A31P	S. Karataun	-	-	-	Mg, Py	-	-	-	-	R	R	R	R	R	T	C	T	-	-	-	-
A32P	S. Karataun	-	1	1		-	1	2	-	T	T	R	R	T	-	R	T	-	-	-	-
A33P	S. Karataun	-	1	-		-	1	-	-	R	R	R	R	R	-	R	T	-	-	-	-

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite
 Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,
 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation (2/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
A34P	S. Karataun	-	-	-	Cin, Py	-	-	1	2	R	R	R	R	R	R	R	T	-	-	-	-
A35P	S. Tarawa	-	-	1		-	-	-	-	-	C	T	-	R	T	R	T	-	-	-	-
A36P *	S. Karataun	-	-	-																	
A37P	S. Bone	-	-	-		-	-	-	-	T	A	T	R	T	T	R	T	-	-	-	R
A38P	S. Tandiko	-	-	-	Py	-	-	-	-	-	R	T	T	T	T	R	T	-	-	-	R
A39P	S. Kako	-	-	-	Mg	-	-	-	-	-	R	T	T	T	T	R	T	-	-	-	C
A40P *	S. Mate	-	-	-																	
A41P *	S. Palusu	-	-	-																	
A42P	S. Mate	-	2	-	Py	-	-	2	1	T	T	-	R	T	T	R	T	T	T	T	-
A43P	S. Mate	-	1	1	Py	-	-	1	-	-	C	T	R	T	T	C	R	T	T	-	-
A44P	S. Mate	-	-	-	Py	-	-	-	-	-	R	-	T	R	-	R	T	-	-	-	R
A45P *	S. Bone	-	-	-																	
A46P *	S. Siatun	-	-	-																	
A47P *	S. Siatun	-	-	-																	
A48P *	S. Siatun	-	-	-																	
A49P *	S. Siatun	-	-	-																	
A50P	S. Beranak	-	2	-		-	2	-	-	R	R	T	R	-	-	R	R	T	-	-	-
A51P	S. Beranak	-	-	-		-	-	-	-	T	R	T	R	R	C	R	T	-	-	-	T
A52P *	S. Beranak	-	-	-																	
A53P	S. Beranak	-	4	-		-	3	1	-	-	A	T	T	T	-	-	T	-	-	-	T
A54P *	S. Beranak	-	-	-																	
A55P *	S. Beranak	-	-	-																	
A56P *	S. Karataun	-	-	-																	
A57P *	S. Karataun	-	-	-																	
B1P *	S. Balimbing	-	-	-	Py																
B2P *	S. Balimbing	-	-	-	Py																
B3P *	S. Balimbing	-	-	-	Py																
B4P *	S. Balimbing	-	-	-	Py																
B5P	S. Balimbing	-	-	1	Py	-	-	1	-	-	A	-	T	T	-	R	R	-	-	-	-
B6P	S. Balimbing	-	-	1	Py	-	-	-	-	-	A	R	R	-	-	R	-	-	-	-	-
B7P	S. Balimbing	-	-	-	Py	-	-	-	-	-	-	T	R	T	R	R	R	-	-	-	-
B8P	S. Balimbing	-	-	-	Py, Cp	-	-	-	-	-	R	T	R	R	R	R	R	-	-	-	-
B9P *	S. Balimbing	-	-	-	Py																

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite
 Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,
 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation (3/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Iln.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
B10P *	S. Balimbing	-	-	-	Py																
B11P	S. Balimbing	-	-	-	Py	-	-	-	-	R	T	R	R		R	R					
B12P *	S. Balimbing	-	-	-	Py																
B13P *	S. Balimbing	-	-	-																	
B14P *	S. Balimbing	-	-	-																	
B15P *	S. Balimbing	-	-	-	Py																
B16P *	S. Balimbing	-	-	-	Py																
B17P	S. Balimbing	-	-	-	Py	-	-	-	-	R	T	R	R	R	C	T					R
B18P	S. Balimbing	-	-	-	Py	-	-	1	-	T	R	T	R	R		A		T			R
B19P	S. Balimbing	-	-	-	Py, Cp	-	-	-	-	R	T	R	R	T	C	R					R
B20P	S. Balimbing	-	-	-		-	-	-	-	R	T	R	C	T	C	R					T
B21P	S. Balimbing	-	-	-	Py	-	-	-	-	R	T	R	C		C	R					T
B22P	S. Balimbing	-	-	-	Py	-	-	-	-	R	T	R	T	T	C	R					T
B23P *	S. Balimbing	-	-	-																	
B24P	S. Balimbing	-	-	-	Cp	-	-	-	-	R	T	R	T	T	C	R					
B25P	S. Balimbing	-	-	-	Py	-	-	-	-	T	T	R	R	T	A	T					T
B26P	S. Balimbing	-	-	-	Py, Cp	-	-	-	R		T	R	R	T	C	T					
B27P	S. Balimbing	-	-	-	Py	-	1	-	-	T	T	R	R		C	C					
B28P *	Salupinal	-	-	-																	
B29P *	Salupoline	-	-	-																	
B30P *	S. Salore	-	-	-																	
B31P *	Kp. Bau	-	-	-																	
B32P *	Kp. Bau	-	-	-																	
B33P *	Kp. Bau	-	-	-																	
B34P *	Kp. Bau	-	-	-																	
B35P	S. Lebutang	-	-	12	Cin	-	-	20	3		R	R	C	T		C	T		T		T
B36P	S. Lebutang	-	-	-	Cin	-	-	-	-	T	R	R	R	R		C	T				T
B37P	S. Lebitang	-	-	-		-	-	-	1	T	R	R	C	R	R	C					T
B38P	S. Petaguman	-	-	-		-	-	-	-	T	R	R	R	R		C					
B39P	S. Lebutang	-	-	2		-	-	5	-		T	R	C	R	T	C	T				T
B40P *	S. Lelating	-	-	-	Py																
B41P	S. Lebutang	-	-	-	Py	-	-	-	-	T	R	R	R	R	R	C	R				
B42P	S. Talodo	-	-	4		-	-	4	-		R		C	R		C	T				

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Iln.:Ilmenite
 Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,
 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation (4/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
B43P *	S. Talod	-	-	-																	
B44P *	S. Lebutang	-	-	-																	
B45P	S. Taroto	-	-	9		-	-	15	-	-	R	R	C	-	-	C	T	-	-	-	T
B46P	S. Taroto	-	-	2		-	-	4	-	-	C	T	-	R	-	R	T	-	-	-	T
B47P	S. Lebutang	-	-	-		-	-	-	-	-	R	R	R	R	R	C	R	-	-	-	-
B48P *	S. Lebutang	-	-	-																	
B49P *	S. Lelating	-	-	-																	
B50P	S. Bone	-	-	4		-	-	6	-	T	C	R	C	-	-	R	T	-	-	-	T
B51P	S. Bone	-	-	6		-	-	4	-	T	R	R	C	-	-	R	R	-	T	-	-
B52P	S. Bone	-	-	4		-	-	5	-	T	C	R	R	-	-	R	R	-	-	-	-
B53P	S. Bone	-	-	1	Py	-	-	1	-	T	C	T	R	-	-	R	R	-	-	-	-
B54P	S. Bone	-	-	3		-	-	2	-	R	R	R	C	-	-	R	R	-	-	-	-
B55P *	S. Bone	-	-	-																	
B56P *	S. Tandiko	-	-	-																	
C1P	S. Belopi	-	-	-		-	-	-	-	-	-	-	R	-	-	R	T	-	-	-	C
C2P *	S. Belopi	-	-	-																	
C3P	S. Belopi	-	-	-		-	-	-	-	-	R	T	-	-	-	R	T	-	-	-	C
C4P *	S. Belopi	-	-	-																	
C5P	S. Belopi	-	-	-		-	-	-	-	-	R	T	-	-	-	R	-	-	-	-	C
C6P *	S. Belopi	-	-	-																	
C7P	S. Belopi	-	-	-		-	-	-	-	-	-	T	R	-	-	R	R	-	-	-	C
C8P	S. Belopi	-	-	-		-	-	-	-	-	-	-	T	-	-	T	-	-	-	-	A
C9P	S. Belopi	-	-	-		-	-	-	-	-	R	-	R	-	-	R	-	-	-	-	C
C10P	S. Belopi	-	-	-		-	-	-	-	-	R	T	T	R	-	R	-	-	-	-	C
C11P *	S. Belopi	-	-	-																	
C12P	S. Belopi	-	-	-		-	-	-	-	T	R	T	R	R	-	R	T	-	-	-	C
C13P *	S. Belopi	-	-	-																	
C14P	S. Belopi	-	-	-		-	-	-	-	T	T	R	R	-	R	T	-	-	-	-	C
C15P	S. Salore	-	-	-		-	-	-	-	-	R	T	R	R	T	R	T	-	-	-	C
C16P	S. Salore	-	-	-		-	-	1	-	T	R	T	R	C	R	C	T	-	-	-	R
C17P	S. Salore	-	-	-	Py	-	-	-	-	T	R	T	R	C	R	C	T	-	-	-	-
C18P *	S. Salore	-	-	-																	
C19P	S. Salore	-	-	-		-	-	-	-	T	R	T	R	A	R	R	T	-	-	-	-

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite

Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,

Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation(5/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin.	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
A: 60 to 100%, C: 30 to 60%, R: 1 to 30%, T: 1%																					
C20P †	S. Salore	-	-	-																	
C21P	S. Salore	-	-	-					T	T	T	R	C	R	C	T	-	-	-	-	-
C22P †	S. Salore	-	-	-																	
C23P	S. Salore	-	-	-					T	-	R	R	R	T	C	T	-	-	-	-	-
C24P †	S. Salore	-	-	-																	
C25P †	S. Salore	-	-	-																	
C26P	S. Tarawa	-	-	1					-	C	T	B	R	R	R	T	-	-	-	-	R
C27P	S. Au	-	-	1	Py				T	R	T	T	C	T	R	T	-	-	-	-	-
C28P	S. Karataun	-	-	3	Py			2	-	R	R	R	C	-	R	R	R	-	-	-	-
C29P	S. Baranak	-	-	-	Py					T	R	T	R	C	R	R	T	-	-	-	-
C30P	S. Sule	-	-	-						R	-	T	T	T	T	T	-	-	-	-	C
C31P	S. Peatuan	-	-	-	Py					T	T	R	R	T	R	T	-	-	-	-	C
C32P	S. Karataun	-	-	1	Ga?					R	R	T	R	R	T	R	R	-	-	-	-
C33P †	S. Baropa	-	-	-																	
C34P	S. Karataun	-	-	1	Py			1	1	R	R	R	R	C	R	R	R	-	-	-	-
C35P	S. Karataun	-	-	1						R	R	T	R	C	R	R	T	-	-	-	-
C36P †	S. Siactung	-	-	-	Cin																
C37P	S. Palopi	-	-	-	Cin					T	R	T	R	R	T	R	T	-	-	-	R
D1P	S. Karataun	-	-	-						T	R	T	R	R	T	A	T	-	-	-	R
D2P †	S. Karataun	-	-	-																	
D3P	S. Karataun	-	-	-						T	R	R	R	C	T	R	R	-	-	-	C
D4P †	S. Karataun	-	-	-																	
D5P	S. Karataun	-	-	-				1	-	T	R	R	R	C	R	R	T	-	-	-	-
D6P †	S. Karataun	-	-	-																	
D7P	S. Karataun	-	-	-				1	1	R	R	R	R	R	R	R	T	-	-	-	-
D8P †	S. Karataun	-	-	-																	
D9P	S. Karataun	-	-	-				1	2R	C	T	R	C	R	R	R	-	-	-	-	-
E1P †	S. Bosokan	-	-	-																	
E2P	S. Bosokan	-	-	-	Py							T	C	R	-	R	R	-	-	-	T
E3P †	S. Bosokan	-	-	-	Py																
E4P	S. Bosokan	-	-	-								T	C	R	-	R	R	-	-	-	R
E5P †	S. Bosokan	-	-	-																	
E6P	S. Bosokan	-	-	-								R	C	-	R	T	-	-	-	-	R

Abbreviation C:coars. M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite
 Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,
 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, †: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation(6/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
E7P *	S. Bosokan	-	-	-																	
E8P	S. Bosokan	-	-	-	Py	-	-	-	-	-	T	C	T	-	R	R	-	-	-	R	
E9P *	S. Bosokan	-	-	-																	
E10P	S. Bosokan	-	-	-					-	-	T	R	C	-	R	R	-	-	-	R	
E11P *	S. Bosokan	-	-	-																	
E12P	S. Bosokan	-	-	-					-	-	T	C	C	-	R	R	-	-	-	R	
E13P *	S. Bosokan	-	-	-																	
E14P	S. Bosokan	-	-	-					-	-	T	R	C	-	R	R	-	-	-	-	
E15P *	S. Bosokan	-	-	-																	
E16P	S. Bosokan	-	-	-	Py	-	-	-	-	R	T	R	C	-	R	-	-	-	-	R	
E17P *	S. Bosokan	-	-	-																	
E18P	S. Bosokan	-	-	-	Py	-	-	-	-	-	T	R	C	-	R	R	-	-	-	R	
E19P *	S. Bosokan	-	-	-																	
E20P	S. Salore	-	-	-	Py	-	-	-	T	T	R	R	R	-	A	T	-	-	-	T	
E21P	S. Salore	-	-	-	Py	-	-	-	T	R	T	R	R	-	C	T	-	-	-	-	
E22P *	S. Salore	-	-	-	Py																
E23P	S. Salore	-	-	-	Py	-	-	-	T	R	T	R	R	-	A	T	-	T	-	T	
E24P *	S. Salore	-	-	-																	
E25P	S. Salore	-	-	-					-	T	T	R	R	-	A	T	-	-	-	T	
E26P *	S. Buakayu	-	-	-																	
E27P	S. Salore	-	-	-					T	R	T	R	R	-	A	T	-	-	-	R	
E28P *	S. Salore	-	-	-																	
E29P	S. Salore	-	-	-					T	T	R	R	T	-	A	T	-	-	-	T	
E30P *	S. Salore	-	-	-	Cp																
E31P	S. Salore	-	-	-					T	R	T	R	R	-	A	T	-	-	-	-	
E32P *	S. Salore	-	-	-																	
E33P	S. Salore	-	-	-	Cin	-	-	-	T	R	T	R	C	-	C	T	-	-	-	T	
E34P *	S. Salore	-	-	-																	
E35P	S. Salore	-	-	-	Py	-	-	-	T	R	T	R	R	-	A	T	-	-	-	T	
E36P *	S. Buakayu	-	-	-																	
E37P *	S. Buakayu	-	-	-																	
E38P	S. Buakayu	-	-	-					-	R	R	R	R	-	C	R	-	-	-	R	
E39P *	S. Buakayu	-	-	-																	

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite

Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,

Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation(7 / 1 2)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
E40P *	S. Buakayu	-	-	-																	
E41P *	S. Buakayu	-	-	-																	
E42P	S. Buakayu	-	-	-		-	-	-	-	-	T	R	R	-	C	R	-	-	-	-	R
E43P	S. Buakayu	-	-	-	Py	-	-	-	-	-	-	R	R	-	C	R	-	-	-	-	R
E44P	S. Buakayu	-	-	-	Py	-	-	-	-	R	T	R	R	-	R	T	-	-	-	-	-
E45P *	S. Buakayu	-	-	-																	
E46P	S. Buakayu	-	-	-		-	-	-	T	T	T	C	R	-	C	T	-	-	-	-	R
E47P *	S. Salore	-	-	-																	
E48P	S. Karataun	-	-	14		-	-	2	5	R	R	R	C	-	T	R	R	-	-	-	-
E49P	S. Makaliki	-	2	4		-	-	1	1	R	R	R	R	-	-	C	C	-	-	-	T
E50P *	S. Makaliki	-	-	-																	
E51P	S. Makaliki	-	-	3		-	-	-	-	T	-	T	R	-	R	C	R	-	-	-	R
E52P *	S. Makaliki	-	-	-																	
E53P	S. Pongo	-	-	2		-	-	1	-	T	R	T	R	-	R	C	R	-	-	-	T
E54P	S. Pongo	-	-	1		-	-	-	-	T	R	T	C	-	R	R	R	-	-	-	-
E55P *	S. Pongo	-	-	-																	
E56P	S. Pongo	-	-	-	Py	-	-	-	-	R	T	R	C	T	C	T	-	-	-	-	R
E57P *	S. Pongo	-	-	-																	
E58P	S. Pongo	-	1	-		-	-	1	-	T	-	T	R	-	T	C	R	-	-	-	T
E59P	S. Pongo	-	-	-	Py	-	-	-	-	R	T	R	C	-	C	T	-	-	-	-	-
E60P *	S. Pongo	-	-	-	Py																
E61P	S. Pongo	-	-	-	Py	-	-	-	-	T	R	R	C	R	-	R	R	-	-	-	-
E62P *	S. Pongo	-	-	-	Py																
E63P	S. Pongo	-	-	-	Py	-	-	-	-	T	R	R	C	R	R	R	R	-	-	-	R
E64P *	S. Pongo	-	-	-	Py																
E65P *	S. Pongo	-	-	-	Py																
E66P	S. Pongo	-	-	-	Py	-	-	1	-	T	-	R	C	R	R	R	R	-	-	-	R
E67P *	S. Makaliki	-	-	-																	
E68P	S. Makaliki	-	-	-	Py	-	-	-	-	R	T	A	R	-	R	R	-	-	-	-	R
E69P *	S. Makaliki	-	-	-	Py																
E70P	S. Makaliki	-	-	-	Py	-	-	-	-	T	R	R	C	R	-	R	T	-	-	-	R
E71P *	S. Makaliki	-	-	-																	
E72P *	S. Makaliki	-	-	-																	

Abbreviation C:coars, M:medium, F: fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite

Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,

Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation(8/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope																
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ila.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.	
		C	M	F		C	M	F														
E73P *	S. Makaliki	-	-	-																		
E74P *	S. Makaliki	-	-	-																		
E75P *	S. Makaliki	-	-	-																		
E76P	S. Makaliki	-	-	-	Py	-	-	-	-	T	-	T	C	R	-	R	R	-	-	-	-	-
E77P *	S. Makaliki	-	-	-																		
E78P	S. Makaliki	-	-	-	Py	-	-	-	-	T	-	T	C	R	R	R	R	-	-	-	-	-
E79P *	S. Makaliki	-	-	-																		
E80P *	S. Makaliki	-	-	-																		
E81P	S. Makaliki	-	-	-						-	R	T	C	R	R	R	T	-	-	-	-	-
E82P *	S. Makaliki	-	-	-																		
E83P	S. Makaliki	-	-	-						T	T	T	R	R	R	T	R	-	-	-	-	R
E84P *	S. Makaliki	-	-	-																		
E85P	S. Makaliki	-	-	1	Py	-	1	-	-	T	R	R	C	R	R	R	R	-	-	-	-	T
E86P	S. Makaliki	-	-	-	Py	-	-	-	-	-	T	R	C	-	C	T	R	-	-	-	-	-
E87P	S. Makaliki	-	-	-						T	T	R	C	R	R	R	T	-	-	-	-	T
E88P *	S. Makaliki	-	-	-																		
E89P	S. Makaliki	-	-	-						T	-	T	C	R	R	R	T	-	-	-	-	-
E90P *	S. Makaliki	-	-	-																		
E91P *	S. Makaliki	-	-	-																		
E92P	S. Makaliki	-	-	-						T	R	T	C	R	R	R	T	-	-	-	-	-
E93P *	S. Makaliki	-	-	-																		
E94P *	S. Makaliki	-	-	-																		
E95P	S. Pongo	-	-	-						T	T	T	R	R	C	T	-	-	-	-	-	-
E96P *	S. Pongo	-	-	-																		
E97P *	S. Pongo	-	-	-																		
E98P	S. Pongo	-	-	-						T	T	T	R	T	R	T	-	-	-	-	-	-
E99P *	S. Pongo	-	-	-																		
E100P*	S. Pongo	-	-	-																		
E101P	S. Malela	-	-	-	Py	-	-	-	-	-	-	R	R	R	R	T	-	-	-	-	-	-
E102P	S. Tarawa	-	-	-	Py	-	-	1	-	-	-	T	C	R	R	R	T	-	-	-	-	-
E103P	S. Au	-	-	-						R	R	R	C	R	R	R	T	-	-	-	-	-
E104P	S. Malera	-	2	1	Py	-	-	2	-	R	R	R	R	R	R	R	T	-	-	-	-	T
E105P	S. Pongo	-	2	-				3	-	T	R	R	C	R	R	R	R	-	-	-	-	T

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ila.:Ilmenite
 Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,
 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation(9/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F		A: 60 to 100%	C: 30 to 60%	R: 1 to 30%	T: 1%								
E106P	S. Pongo	-	1	-	Py	-	-	-	-	T	-	T	C	R	R	R	R	-	-	-	T
E107P	S. Pongo	-	-	3	Py	-	1	4	-	-	R	R	C	R	-	R	R	-	-	-	T
E108P	S. Pongo	-	-	-	Py	-	-	-	-	T	-	R	C	R	R	R	R	-	-	-	R
E109P	S. Pongo	-	-	-		-	-	-	-	T	-	-	T	R	R	R	-	-	-	-	R
E110P	S. Pongo	-	-	1	Py	-	-	1	-	T	R	T	C	R	R	R	R	-	-	-	R
E111P	S. Pongo	-	-	-		-	-	-	-	-	R	T	R	R	-	T	R	-	-	-	R
E112P	S. Pongo	-	1	-		-	-	1	-	-	R	R	C	R	R	R	T	-	-	-	T
E113P	S. Pongo	-	-	-	Py	-	-	-	-	-	R	R	R	R	R	R	T	-	-	-	-
E114P	S. Pongo	-	-	-	Py	-	-	-	-	T	T	R	C	R	R	T	R	-	-	-	R
E115P	S. Malela	-	-	-	Py	-	-	-	-	R	R	R	R	R	R	R	T	-	-	-	-
E116P	S. Pongo	-	-	-		-	-	-	-	T	R	T	R	R	R	R	T	-	-	-	-
E117P	S. Pongo	-	-	-		-	-	-	-	T	R	-	R	R	R	R	-	-	-	-	-
E118P	S. Pongo	-	-	-		-	-	-	-	R	R	T	R	R	C	R	T	-	T	-	-
E119P	S. Pongo	-	-	-	Py	-	-	-	-	R	R	T	R	R	C	R	T	-	T	-	-
F1P	S. Salore	-	-	-		-	-	1	2	T	R	R	R	R	T	A	T	-	-	-	T
F2P	S. Salore	-	-	-		-	-	1	4	T	R	T	R	-	R	A	T	-	-	-	R
F3P	S. Salore	-	-	1		-	-	3	-	-	R	T	R	R	R	C	T	-	-	-	R
F4P	S. Salore	-	-	-	Cin	-	-	-	-	-	R	T	T	R	-	A	T	-	-	-	R
F5P	S. Salore	-	-	1	Cin	-	-	1	-	T	R	T	T	R	T	C	T	-	-	-	-
F6P †	S. Salore	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F7P †	S. Salore	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F8P †	S. Salore	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F9P †	S. Salore	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F10P †	S. Salore	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F11P	S. Salore	-	-	3	Cin	-	1	3	-	T	R	R	R	R	R	C	T	-	-	-	-
F12P	S. Tadasi	-	-	-		-	-	-	-	T	R	T	T	R	T	A	R	-	-	-	T
F13P	S. Tadasi	-	-	1		-	-	2	-	T	T	T	R	R	T	C	T	-	-	-	R
F14P †	S. Tadasi	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F15P	S. Tadasi	-	-	-		-	-	-	-	-	R	T	T	R	T	A	T	-	-	-	R
F16P †	S. Tadasi	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F17P	S. Tadasi	-	-	-		-	-	-	-	-	R	T	T	R	T	A	T	-	-	-	R
F18P †	S. Tadasi	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F19P	S. Tadasi	-	-	-		-	-	-	-	T	R	-	T	R	T	A	-	-	-	-	R

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite
 Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,
 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, †: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation(10/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope																
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.	
		C	M	F		C	M	F														
F20P *	S. Tadasi	-	-	-																		
F21P	S. Tadasi	-	-	-					T	R	-	R	R	R	A	T	-	-	-	-	-	-
F22P	S. Tadasi	-	-	-					T	R	-	R	T	T	A	T	-	-	-	-	-	-
F23P	S. Tadasi	-	-	1			5	-	-	T	T	T	R	T	C	T	-	-	-	-	-	R
F24P	S. Tadasi	-	-	1			3	-	T	T	T	T	R	T	C	T	-	-	-	-	-	-
F25P *	S. Tadasi	-	-	-																		
F26P *	S. Tadasi	-	-	-																		
F27P	S. Tadasi	-	-	1			2	-	T	R	T	T	R	R	C	T	-	-	-	-	-	-
F28P *	S. Tadasi	-	-	-																		
F29P	S. Tadasi	-	-	-					T	R	-	R	R	T	C	T	-	-	-	-	-	-
F30P *	S. Tadasi	-	-	-																		
F31P	S. Tadasi	-	-	-					-	C	-	T	T	T	R	-	-	-	-	-	-	R
F32P *	S. Tadasi	-	-	-																		
F33P	S. Tadasi	-	-	-					-	R	-	R	T	T	R	-	-	-	-	-	-	C
F34P *	S. Tadasi	-	-	-																		
F35P	S. Tadasi	-	-	-					-	R	-	R	T	T	A	-	-	-	-	-	-	R
F36P *	S. Tadasi	-	-	-																		
F37P	S. Tadasi	-	-	-					T	R	-	R	R	T	A	T	-	-	-	-	-	R
F38P *	S. Tadasi	-	-	-																		
F39P *	S. Kalutun	-	-	-																		
F40P	S. Kalutun	-	-	-					-	T	-	T	A	-	R	-	-	-	-	-	-	-
F41P *	S. Kalutun	-	-	-																		
F42P	S. Kalutun	-	-	-					T	R	-	R	A	T	R	-	-	-	-	-	-	-
F43P *	S. Kalutun	-	-	-																		
F44P	S. Kalutun	-	-	-					-	R	-	R	R	R	A	-	-	-	-	-	-	-
F45P *	S. Kalutun	-	-	-																		
F46P	S. Kalutun	-	-	-					-	C	-	T	R	T	R	-	-	-	-	-	-	R
F47P *	S. Kalutun	-	-	-																		
F48P	S. Kalutun	-	-	-					-	C	-	R	T	-	R	T	-	-	-	-	-	T
F49P *	S. Kalutun	-	-	-																		
F50P	S. Kalutun	-	-	-					-	R	T	R	C	R	C	T	-	-	-	-	-	-
F51P *	S. Kalutun	-	-	-																		
F52P	S. Kalutun	-	-	-			2	-	T	R	T	T	C	R	R	T	-	-	-	-	-	-

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite
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 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

App. 4 Results of Pan Concentrate Observation(1 1 / 1 2)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F													
F53P	S. Kalutun	-	-	-		-	-	1	-	T	R	T	T	R	R	R	T	-	-	-	T
F54P	S. Kalutun	-	-	-		-	-	1	-	T	R	R	R	R	R	R	R	-	-	-	-
F55P *	S. Kalutun	-	-	-																	
F56P	S. Kalutun	-	-	-		-	-	-	-	T	T	T	R	R	R	C	T	-	-	-	-
F57P *	S. Kalutun	-	-	-																	
F58P	S. Kundo	-	-	-		-	-	-	-	T	R	T	R	R	R	R	T	-	-	-	-
F59P *	S. Kundo	-	-	-																	
F60P	S. Kundo	-	-	-		-	-	-	-	T	R	T	R	C	R	R	T	-	-	-	-
F61P *	S. Kundo	-	-	-																	
F62P	S. Kundo	-	-	-		-	-	-	-	T	R	T	R	R	R	R	T	-	-	-	-
F63P *	S. Kundo	-	-	-																	
F64P	S. Kundo	-	-	-		-	-	-	-	T	R	T	R	R	R	R	T	-	-	-	-
F65P *	S. Kundo	-	-	-																	
F66P	S. Kundo	-	-	-		-	-	-	-	T	R	-	R	C	R	R	T	-	-	-	-
F67P *	S. Kundo	-	-	-																	
AP2 *	S. Uroh	-	-	-																	
AP3 *	S. Uroh	-	-	-																	
AP6 *	S. Uroh	-	-	-																	
AP13 *	S. Uroh	-	-	-																	
AP23 *	S. Uroh	-	-	-																	
AP25 *	S. Mawulu	-	-	-																	
AP26 *	S. Marampa	-	-	-																	
AP30 *	S. Marampa	-	-	-																	
AP37 *	S. Bituwe	-	-	-																	
AP38 *	S. Bituwe	-	-	-																	
AP43 *	S. Bituwe	-	-	-																	
AP46	S. Bituwe	-	-	2		-	-	3	-	T	T	T	R	C	R	R	R	-	-	-	T
AP47 *	S. Bituwe	-	-	-																	
AP48	S. Bituwe	-	3	1	Py, Mg	-	1	9	1	T	T	R	R	R	T	C	T	-	-	-	T
AP49	S. Bituwe	-	-	-		-	-	-	-	T	T	T	A	T	R	T	-	T	-	-	
AP53 *	S. Bituwe	-	-	-																	
AP56 *	S. Bituwe	-	-	-																	
AP57 *	S. Bituwe	-	-	-																	

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite
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 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, *: Sample not observed by binocular-microscope

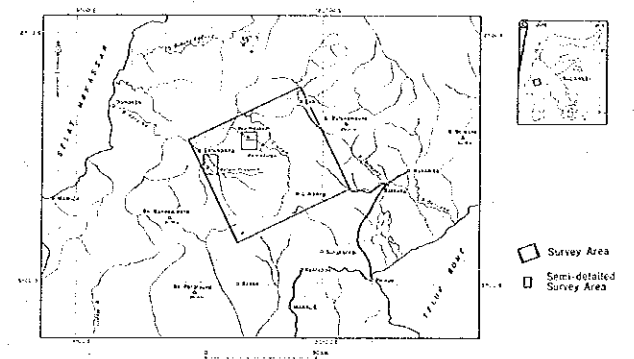
App. 4 Results of Pan Concentrate Observation(12/12)

Sample No.	Location	Observation by Loupe				Observation by Binocular-microscope															
		Au Count			Other Minerals	Au Count			Cin. Count	Gar.	Epi.	Zir.	Ilm.	Pyx.	Hol.	Mg.	Py.	As.	Cp.	Ga.	Io.
		C	M	F		C	M	F		A: 60 to 100%, C: 30 to 60%, R: 1 to 30%, T: 1%											
AP66 †	S. Bituwe	-	-	-																	
AP80 †	S. Patoko	-	-	-																	
AP82	S. Patoko	-	-	1		-	-	2	-	-	T	R	T	R	T	C	T	-	-	-	T
AP83 †	S. Patoko	-	-	-																	
AP85 †	S. Patoko	-	-	-																	
AP86 †	S. Patoko	-	-	-																	
AP88 †	S. Patoko	-	-	-																	
AP89 †	S. Patoko	-	-	-																	
AP91 †	S. Patoko	-	-	-																	

Abbreviation C:coars, M:medium, F:fine, Cin.:Cinnaber, Gar.:Garnet, Epi.:Epidote, Zir.:Zircon, Ilm.:Ilmenite
 Pyx.:Pyroxene, Hol.:Hornblende, Oli.:Olivine, Mg.:Magnetite, Py.:Pyrite, As.:Arsenopyrite,
 Cp.:Chalcopyrite, Ga.:Galena, Io.:Iron oxide, †: Sample not observed by binocular-microscope

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

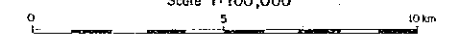
GEOLOGIC MAP AND GEOLOGIC PROFILE
OF THE SURVEY AREA



FEBRUARY 1992

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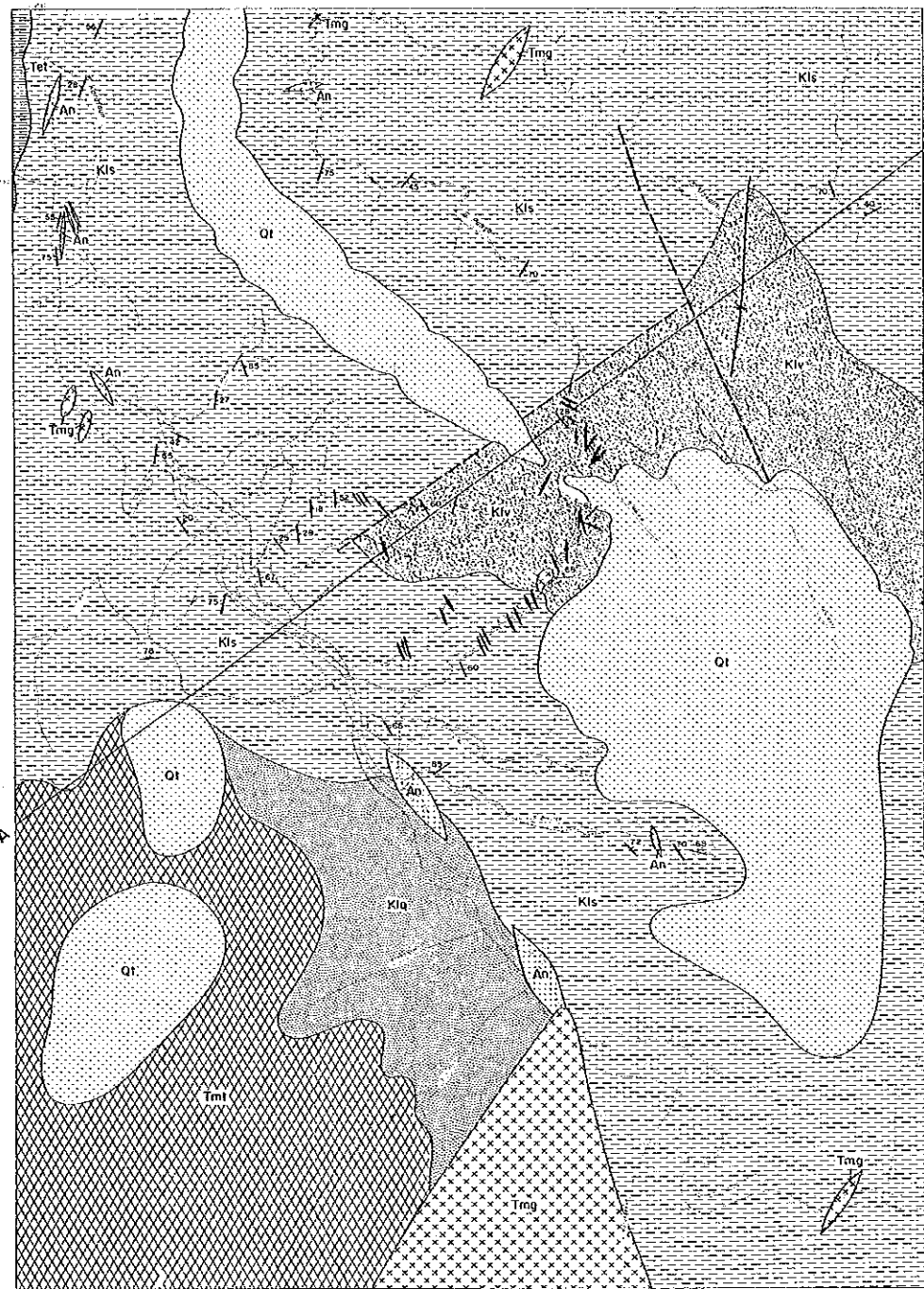
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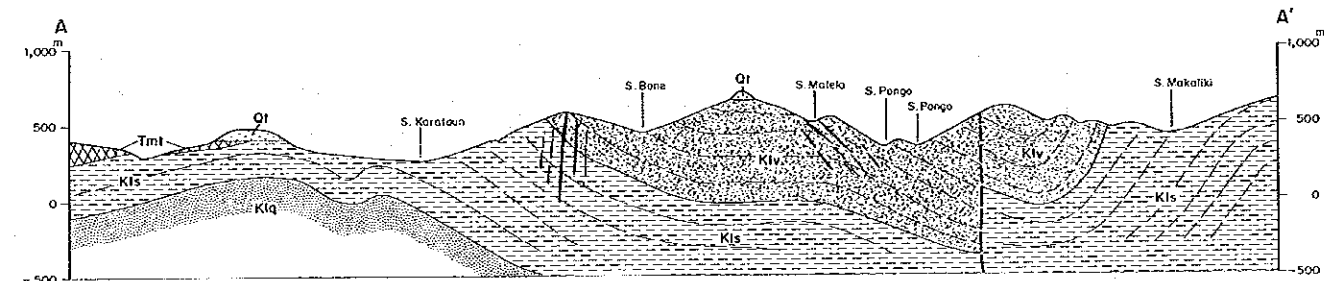
LEGEND

Pleistocene	Barupu Tuffs	Q1	Biotite Dacite and Dacitic Crystal Tuff
	Talaja Volcanic Rocks	Tm	Andesitic to Basaltic Volcanic Breccia and Lava, Locally with Basic Tuff
Miocene	Sekoto Formation	Tmps	Block Shale with Intercalation of Basic Tuff, Sandstone and Conglomerate
		Tm	Massive Limestone
	Berapa Tuffs	Tmb	Alteration of Basalt, Andesite, Tuff, Siltstone and Sandstone
Oligocene to Miocene	Lomasi Volcanic Rocks	Tom	Autobrecciated Dacite, Andesite, Fine Tuff, Lopik Tuff, Porphyritic Dacite and Quartz Porphyry
Eocene	Toraja Formation	Tel	Shale, Limestone and Sandstone
Cretaceous	Lalimjong Formation	Kl	Block Shale / Slate / Siltstone and Altered Andesite / Basalt / Dolerite, Locally with Quartz Sandstone and Limestone
Triassic to Jurassic	Batuhan Malihan Metamorphic Rocks	M	Biotite Gneiss and Mica Schist
Tertiary Intrusives		Tmg	Mamaso Granite: Quartz Monzonite, Porphyritic Quartz Diorite, Granodiorite and Diorite
		Tmk	Kambuna Granite: Quartz Monzonite, Granodiorite, Diorite and Aplit
		An	Porphyritic Andesite and Quartz Porphyry
			Fault
			Strike and Dip of Beds
			Hot Spring

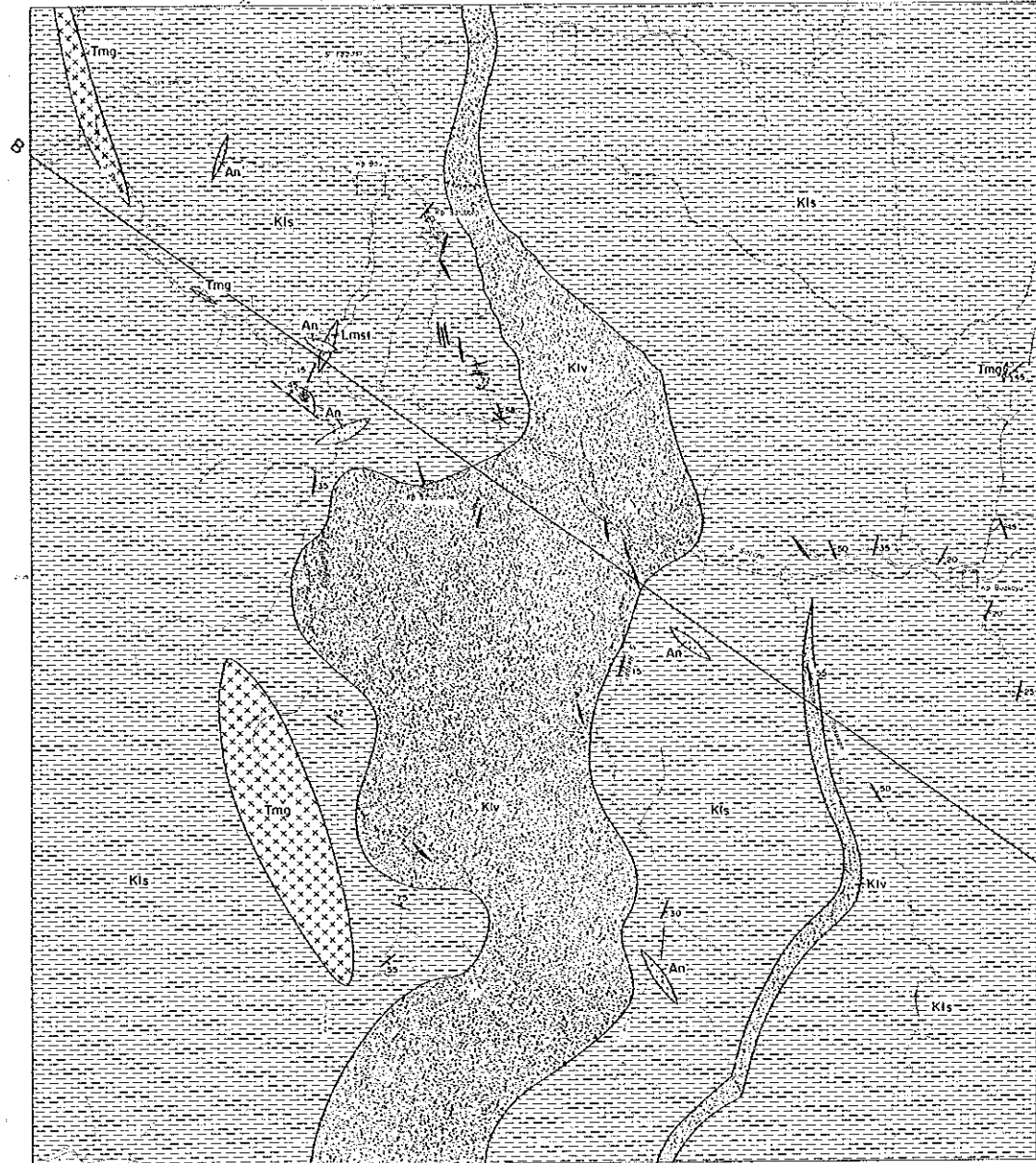
Batuisi Prospect Area



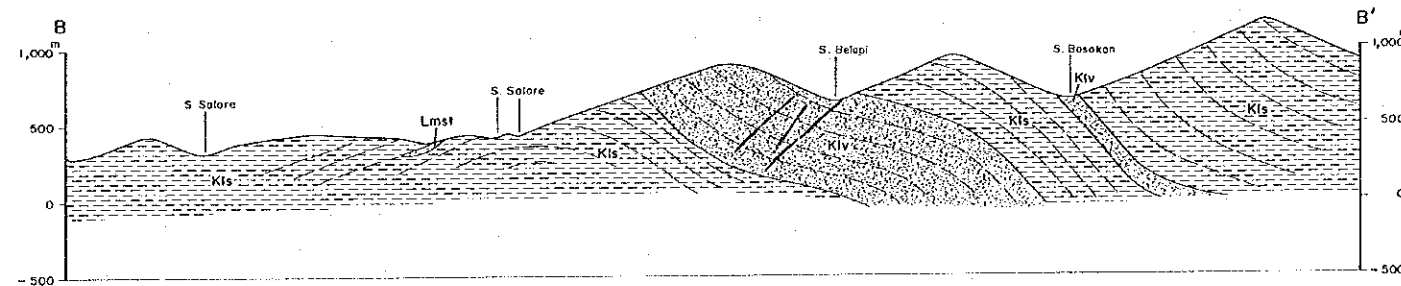
Geologic Profile along Line A - A'



Bau Prospect Area

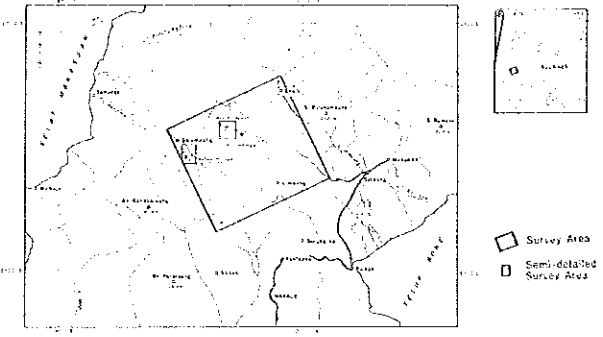


Geologic Profile along Line B - B'



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

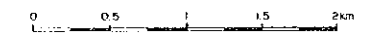
GEOLOGIC MAP AND GEOLOGIC PROFILE
OF THE SEMI-DETAILED SURVEY AREAS



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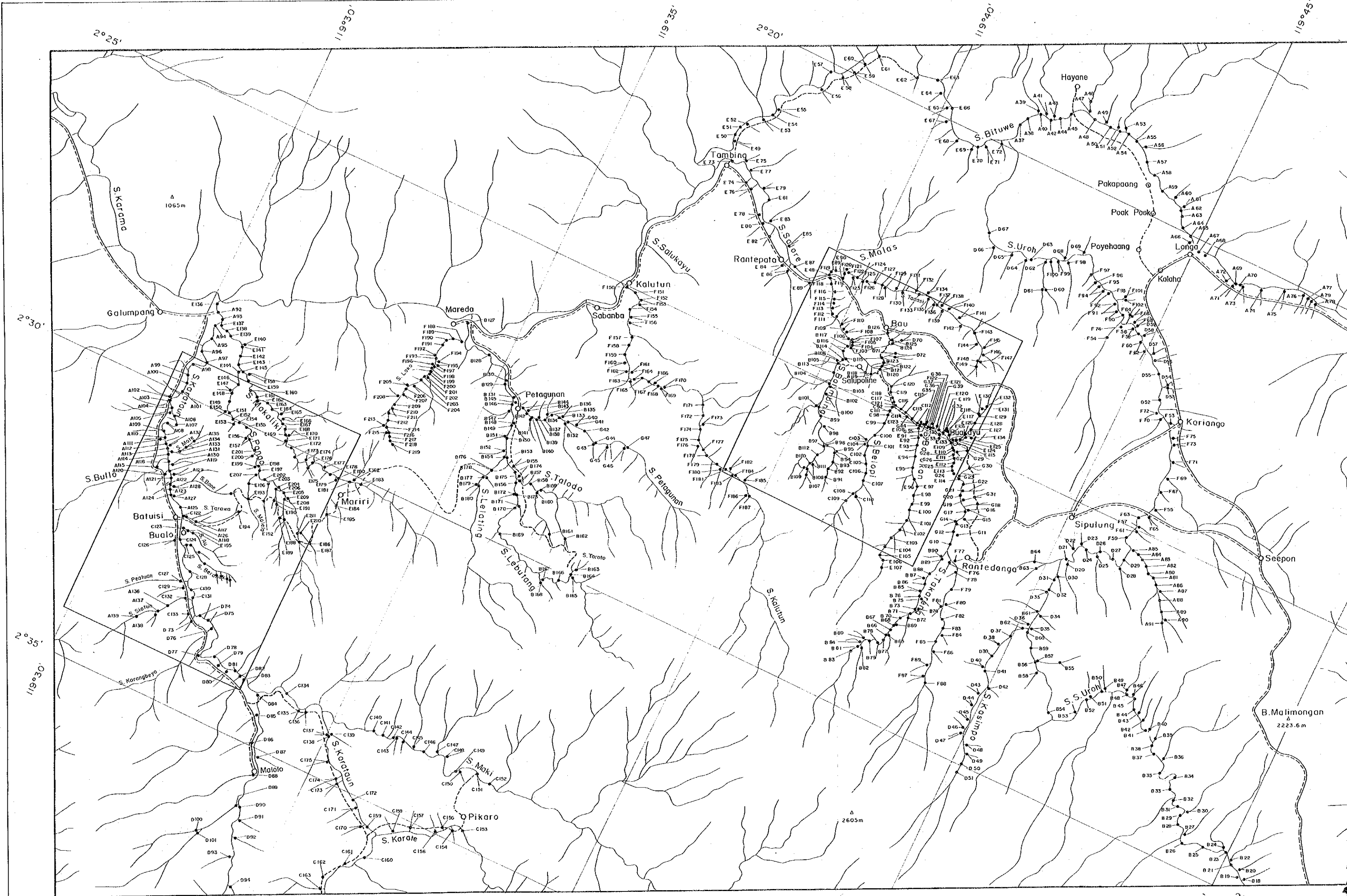
JAPAN INTERNATIONAL COOPERATION AGENCY
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Scale 1:25,000



LEGEND

- | | | | |
|-------------|-----------------------|------|---|
| Pleistocene | Barupu Tuffs | Qt | Biotite Dacite and Volcanic Breccia |
| Miocene | Talaya Volcanic Rocks | Tmt | Andesitic to Basaltic Volcanic Breccia and Lava |
| Eocene | Toraja Formation | Tet | Shale, Limestone and Sandstone |
| Cretaceous | Latimojong Formation | Kiv | Alteration of Shale, Siltstone, Andesite, Basalt and Dolerite |
| | | Kls | Slate, Black Shale and Siltstone |
| | | Lmst | Limestone |
| | | Kiq | Quartz Sandstone |
| Intrusives | | Tmg | Mamaso Granite: Quartz Monzonite, Diorite, Pyroxenite |
| | | An | Andesite, Quartz Porphyry |
| | | | Quartz Vein |
| | | | Network |
| | | | Fault |
| | | | Syncline |
| | | | Strike and Dip of Beds |



2°25'

119°30'

119°35'

2°20'

119°40'

119°45'

2°30'

2°30'

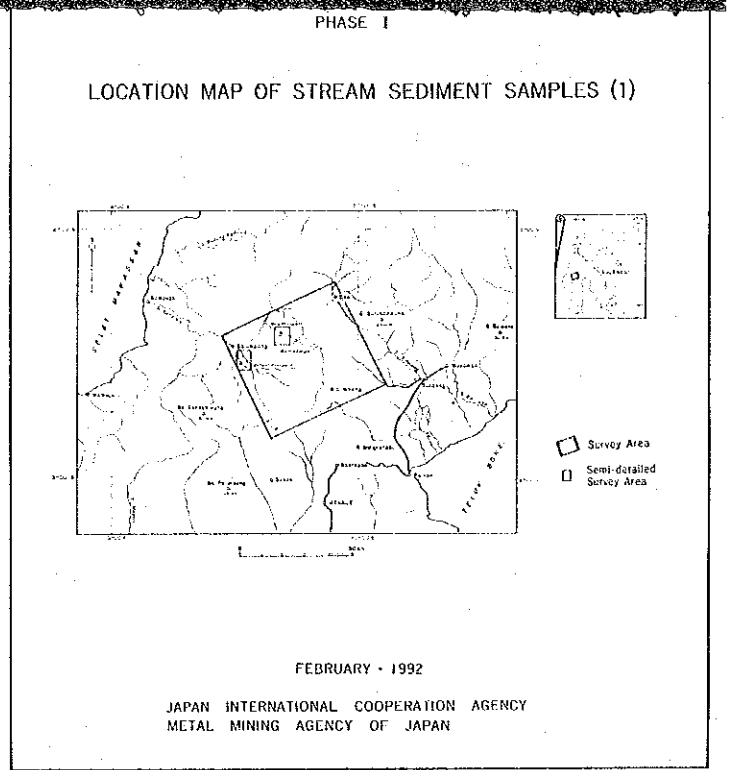
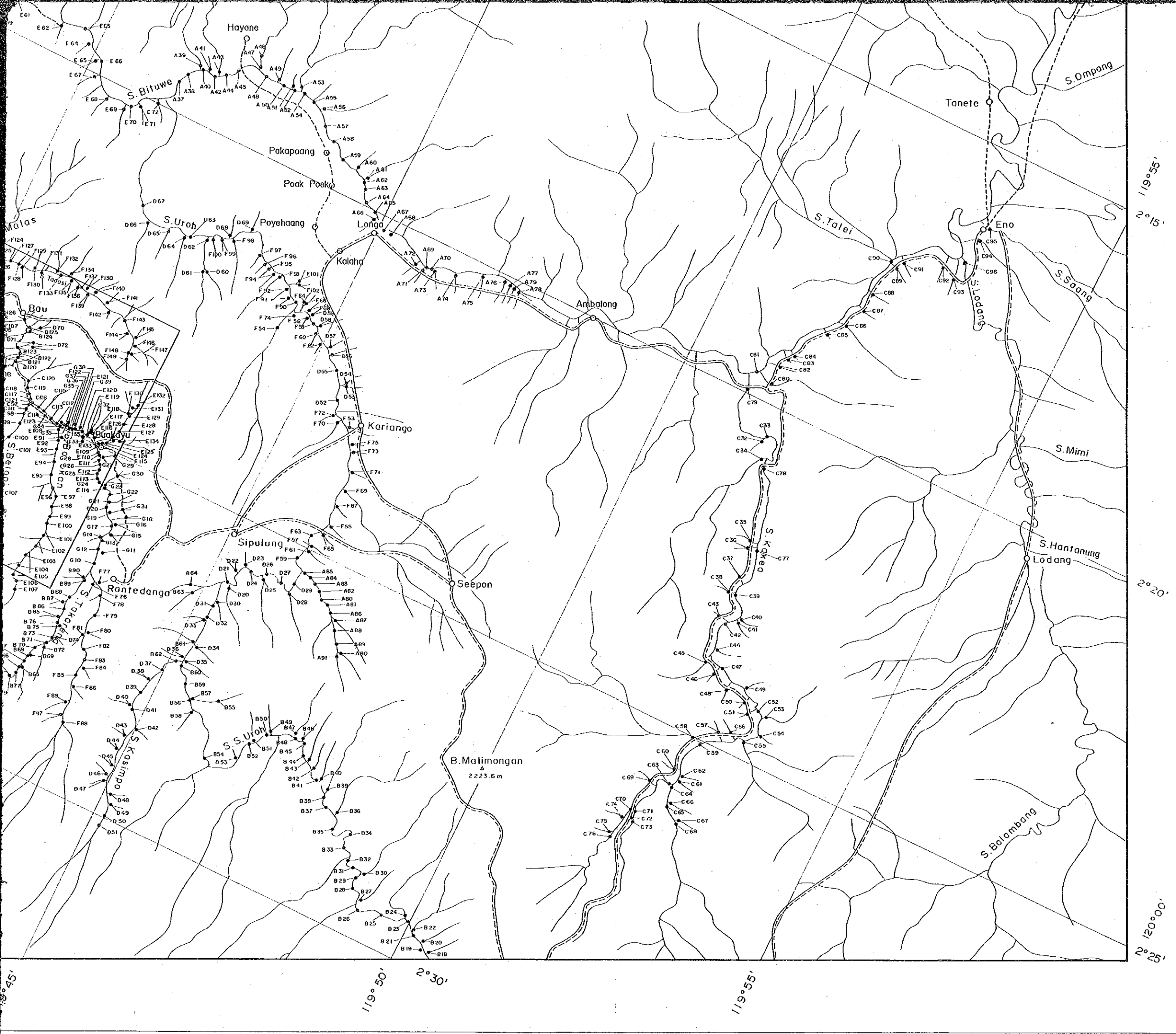
119°30'

2°30'

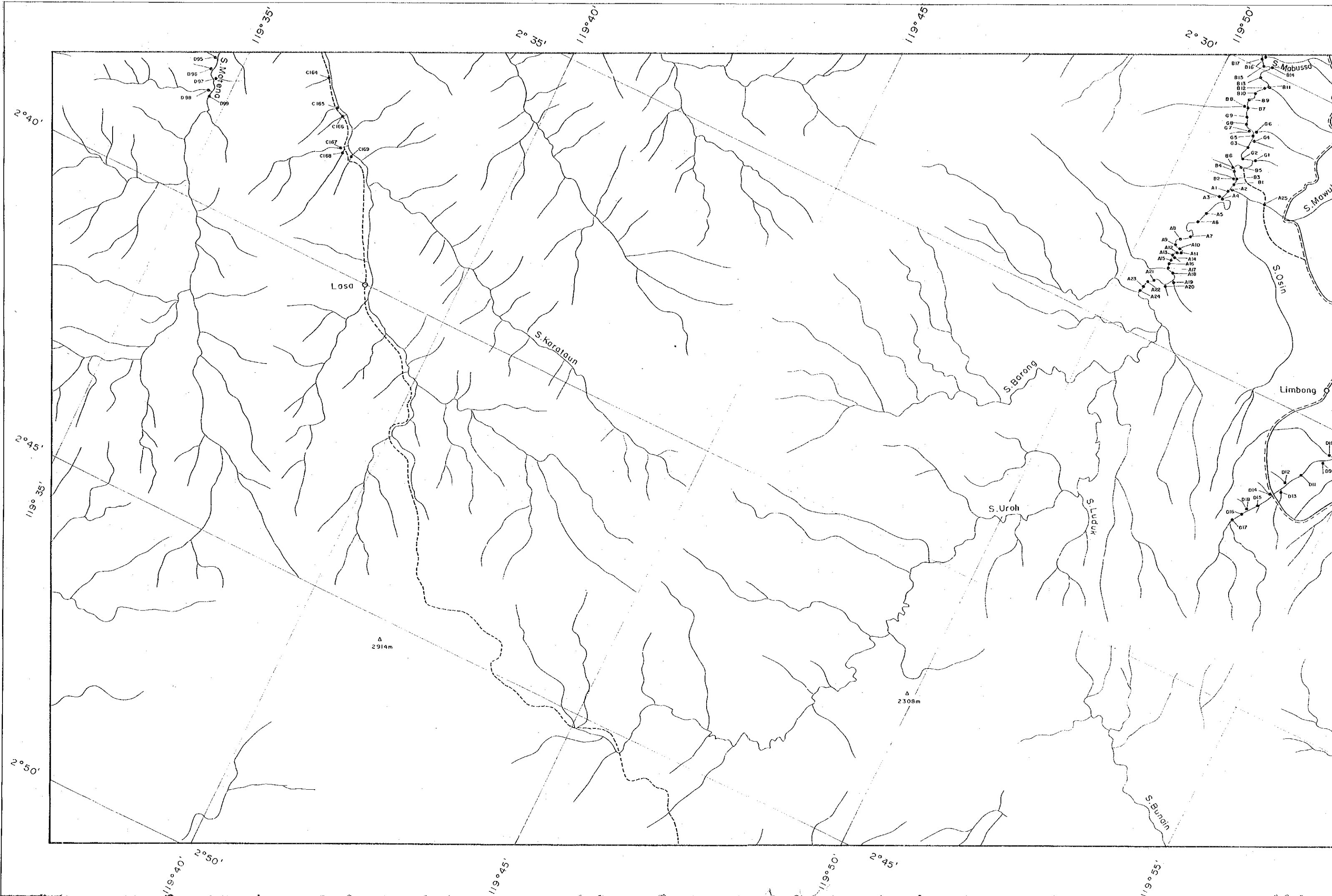
A 2603m

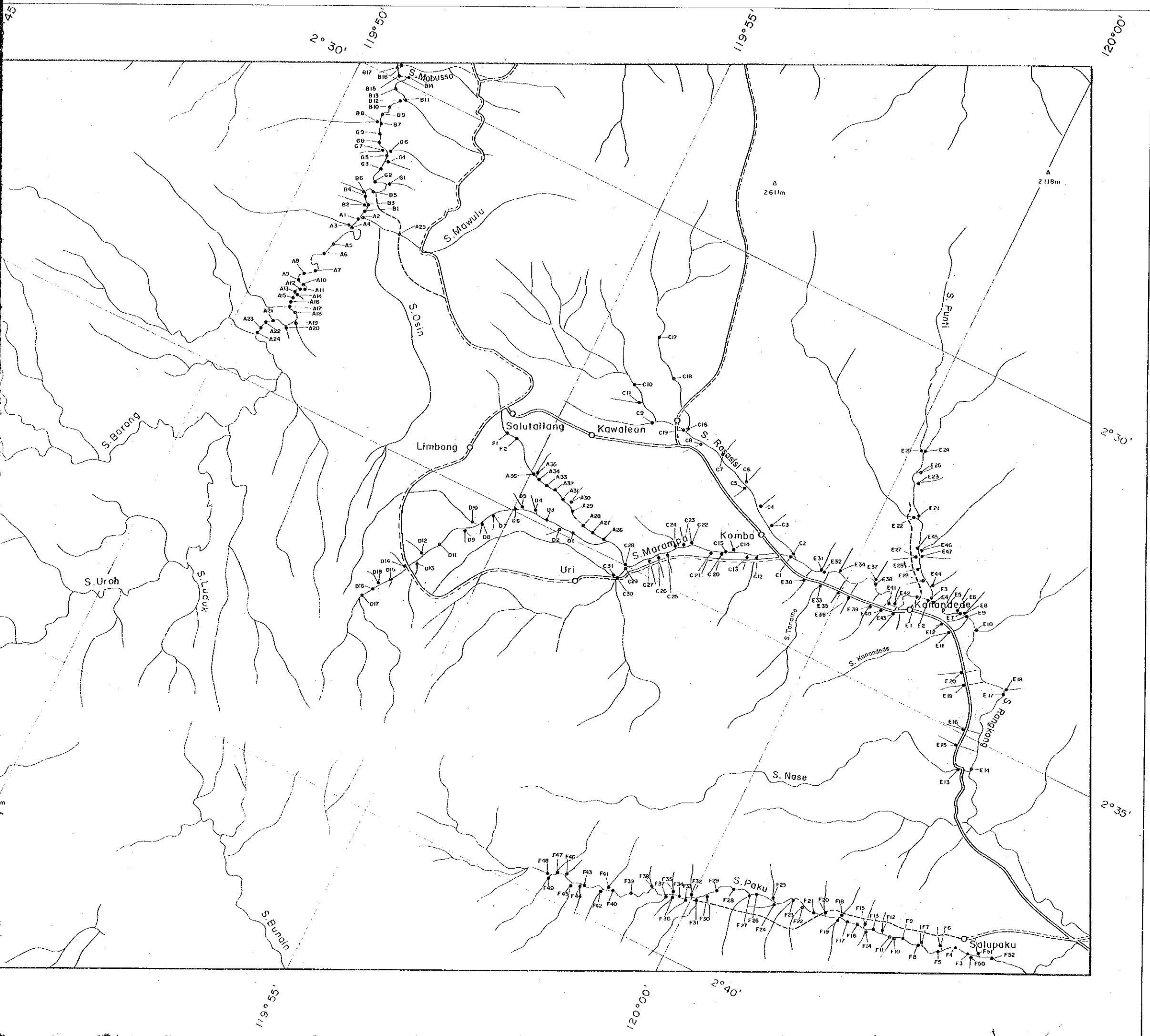
B. Malimongan
2223.6m

A 1065m



- LEGEND**
- A20 Location of Stream Sediment Sample
- Number of Samples**
- A 37 ~ A139
 - B 18 ~ B180
 - C 32 ~ C163, C170 C175
 - D 19 ~ D 94, D100 D101
 - E 48 ~ E211
 - F 53 ~ F219
 - G 10 ~ G 47





PL. 4

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

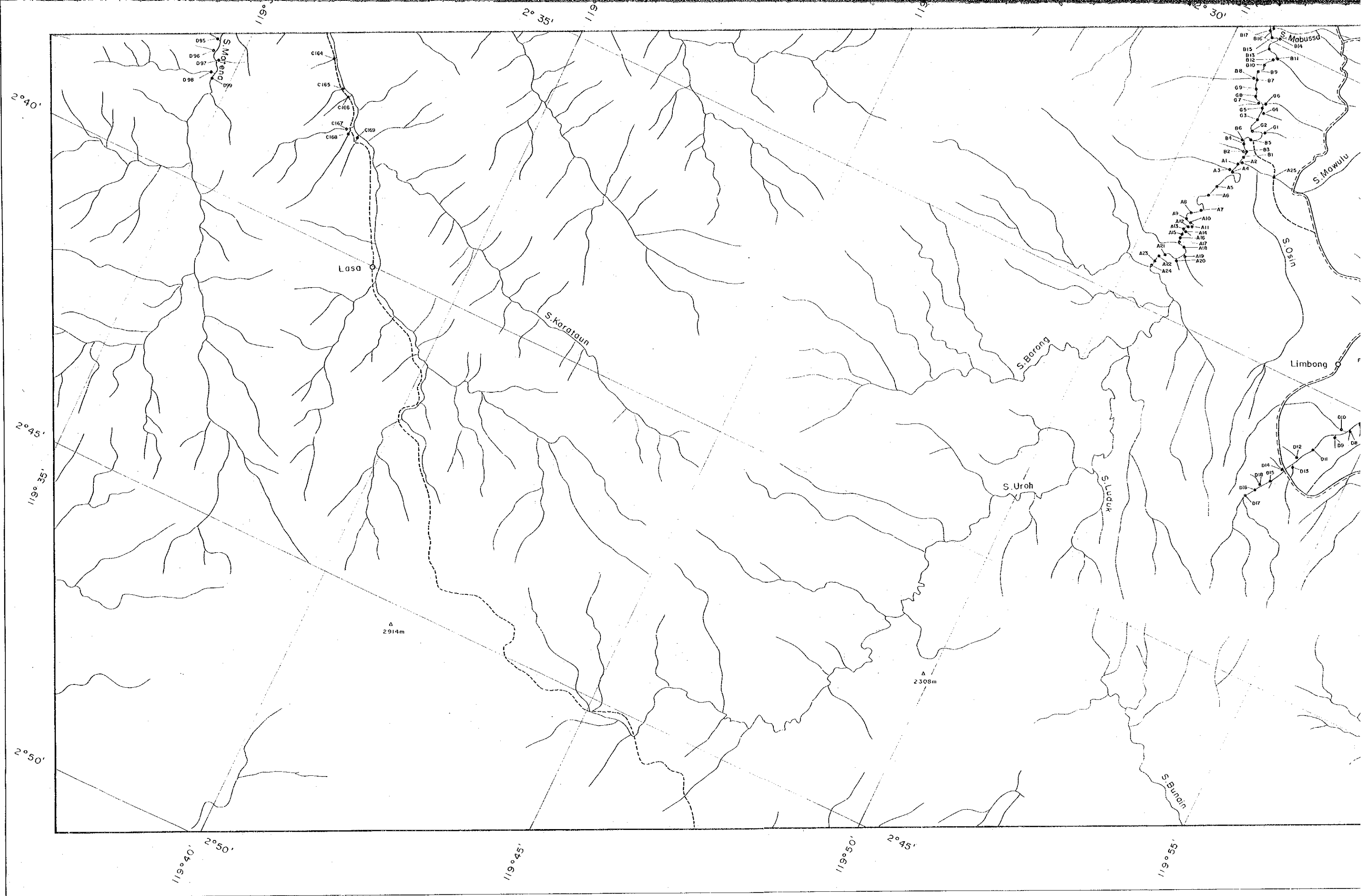
LOCATION MAP OF STREAM SEDIMENT SAMPLES (2)

FEBRUARY - 1992

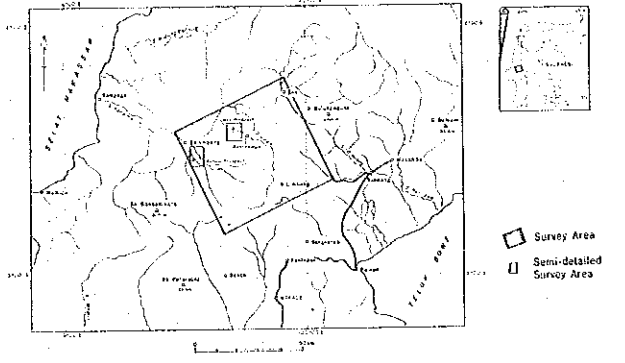
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Scale 1 : 50,000

- LEGEND**
- A20 Location of Stream Sediment Sample
- Number of Samples
- A 1 ~ A36
 - B 1 ~ B17
 - C 1 ~ C31, C164 ~ C169
 - D 1 ~ D18, D95 ~ D99
 - E 1 ~ E47
 - F 1 ~ F52
 - G 1 ~ G 9



LOCATION MAP OF STREAM SEDIMENT SAMPLES (2)



FEBRUARY - 1992

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Scale 1: 50,000

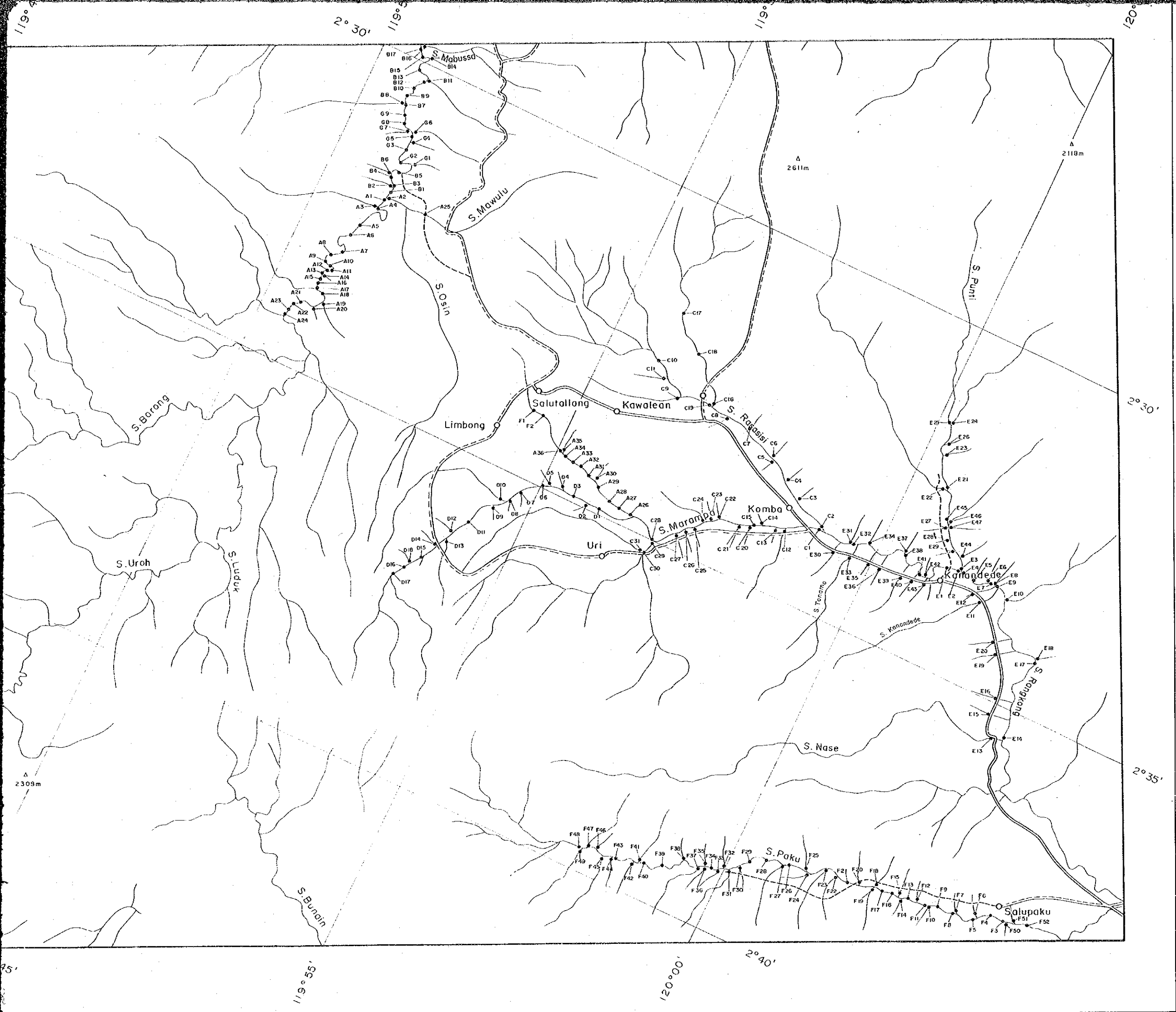


LEGEND

● A20 Location of Stream Sediment Sample

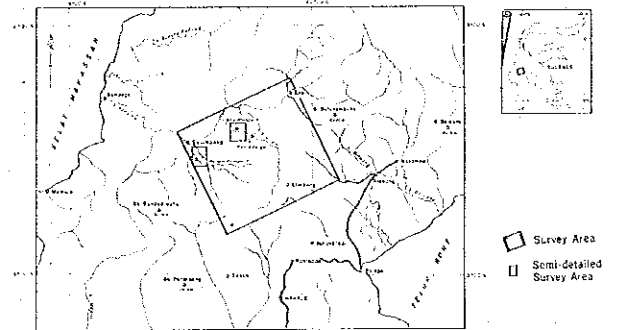
Number of Samples

- A 1 ~ A36
- B 1 ~ B17
- C 1 ~ C31, C164 ~ C169
- D 1 ~ D18, D 95 ~ D 99
- E 1 ~ E47
- F 1 ~ F52
- G 1 ~ G 9



REPORT ON THE COOPERATIVE MINERAL EXPLORATION
IN THE TORAJA AREA, THE REPUBLIC OF INDONESIA
PHASE 1

LOCATION MAP OF PAN CONCENTRATE SAMPLES



FEBRUARY 1992

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Scale 1 : 50,000



LEGEND

- Observation by Loupe
- Observation by Binocular - Microscope
- ⊙ Au Observed by Binocular - Microscope
- ⊙ Au Observed by Loupe

Observation of Binocular - Microscope

Number of medium-grains gold

Number of fine-grains gold

Number of cinnabar

Contain of sulfid minerals

Cp

Cp : Chalcopyrite

Go : Galena

As : Arsenopyrite

