

APPENDIX A
Field gravity data (.raw files)

มหาวิทยาลัยเชียงใหม่
Chiang Mai University

Job:1. Grid:1. Line:1.N Oper:1. CG3#:101175.
 dt=93/10/15 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:18:36	77.460	16.0	57.936
4	688058	1773135	08:45:59	76.088	60.0	59.173
6	688047	1773329	08:52:56	76.331	59.0	58.883
8	688119	1773512	09:06:31	76.705	59.0	58.938
10	688188	1773700	09:12:27	76.918	60.0	58.957
12	688251	1773876	09:16:57	77.224	60.0	59.136
14	688300	1774071	09:21:26	77.398	60.0	59.545
16	688342	1774242	09:25:35	77.804	59.0	59.813
18	688349	1774450	09:29:14	78.139	60.0	59.907
20	688369	1774648	09:34:43	78.414	58.0	60.045
22	688389	1774848	09:41:37	78.727	60.0	59.464
24	688412	1775041	09:48:06	79.070	59.0	58.621
26	688458	1775205	09:59:12	78.989	60.0	58.507
28	688550	1775359	10:04:11	78.674	58.0	59.173
30	688641	1775511	10:09:02	78.710	60.0	60.219
32	688781	1775568	10:12:51	78.347	59.0	62.023
34	688975	1775518	10:18:59	77.981	59.0	62.688
36	689172	1775505	10:29:42	78.384	61.0	60.973
38	689371	1775522	10:35:06	78.209	61.0	61.417
40	689555	1775571	10:39:15	77.907	61.0	62.651
42	689239	1775658	10:43:02	77.534	59.0	64.422
44	689919	1775741	10:47:13	77.212	60.0	66.091
46	690095	1775832	10:51:17	76.730	61.0	68.946
48	690220	1775981	10:57:39	76.856	61.0	69.066
50	690348	1776142	11:01:49	76.595	59.0	70.840
52	690469	1776300	11:05:21	76.443	60.0	71.952
54	690618	1776436	11:10:13	76.441	60.0	72.595
56	690761	1776578	11:13:39	76.340	59.0	73.104
-9999	*	*	15:42:57	77.450	16.0	57.936

Job:1. Grid:1. Line:2.N Oper:1. CG3#:101175.
 dt=93/10/15 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:18:36	77.460	16.0	57.936
0	690821	1776631	11:17:02	76.329	59.0	73.310
2	690990	1776529	11:21:53	75.827	60.0	75.040
4	691102	1776345	11:25:59	75.616	61.0	75.327
6	691168	1776139	11:31:51	75.736	61.0	74.613
8	691211	1775932	11:35:39	75.475	56.0	74.374
10	691211	1775731	11:39:45	75.025	61.0	76.182
12	691199	1775520	11:43:58	75.294	59.0	74.975
14	691162	1775311	11:48:49	75.194	58.0	75.568
16	691189	1775105	11:53:16	75.465	57.0	73.598
18	691217	1774908	12:35:44	75.816	59.0	70.695
20	691221	1774728	12:41:36	74.639	61.0	73.650
22	691237	1774545	12:46:25	73.922	59.0	73.718
24	691230	1774362	12:50:00	74.575	60.0	68.013
26	691262	1774177	12:53:26	74.067	61.0	69.300
28	691259	1773992	12:57:09	73.629	58.0	70.787
30	691169	1773893	13:03:59	75.244	60.0	63.317
32	690979	1773855	13:10:32	74.159	60.0	66.995
34	690820	1773741	13:16:02	73.594	60.0	69.132
36	690650	1773628	13:19:45	74.296	59.0	66.851
38	690469	1773538	13:29:21	75.165	60.0	62.423
40	690302	1773463	13:33:27	75.569	62.0	60.918
42	690119	1773421	13:39:31	75.684	61.0	60.112
44	689942	1773350	13:45:24	75.590	61.0	59.861
46	689759	1773321	13:52:00	75.697	61.0	58.900
48	689512	1773288	13:56:46	75.952	60.0	59.472
50	689379	1773242	14:00:47	75.726	61.0	60.994
52	689191	1773231	14:09:42	75.736	60.0	61.479
54	688999	1773191	14:13:50	76.000	60.0	61.091
56	688800	1773165	14:22:19	76.080	58.0	60.399
58	688607	1773172	14:28:01	75.957	59.0	60.089
60	688552	1773042	14:33:59	75.744	60.0	60.146
62	688563	1772836	14:39:02	75.910	60.0	60.010
64	688427	1772769	14:43:13	75.695	60.0	59.824
66	688229	1772741	14:51:33	75.664	62.0	59.873
68	688032	1772720	14:56:03	75.700	61.0	59.655
70	687831	1772709	14:59:35	75.893	58.0	61.416
72	687681	1772700	15:03:29	76.088	60.0	60.988
74	687431	1772689	15:09:22	76.434	59.0	60.382
76	687233	1772679	15:14:54	76.580	62.0	60.030
78	687038	1772661	15:30:35	76.638	61.0	59.505
80	686837	1772648	15:36:19	77.064	61.0	57.976
-9999	*	*	15:42:57	77.450	16.0	57.936

Job:1. Grid:1. Line:3.N Oper:1. CG3#:101175.
dt=93/10/16 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:17:58	77.488	16.0	57.936
2	686842	1772858	10:05:28	77.127	58.0	58.424
4	686800	1773057	10:11:50	77.660	60.0	58.082
6	686760	1773255	10:26:06	78.097	60.0	57.678
8	686721	1773448	10:37:57	78.215	58.0	57.872
10	686680	1773649	10:46:56	78.687	60.0	57.003
-9999	*	*	15:58:0	78.192	16.0	57.936

Job:1. Grid:1. Line:4.N Oper:1. CG3#:101175.
dt=93/10/16 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:17:58	77.488	16.0	57.936
10	686982	1773669	11:03:11	78.185	61.0	57.740
8	687018	1773470	11:11:57	78.879	57.0	57.664
6	687051	1773273	11:17:43	78.616	59.0	57.492
4	687088	1773078	11:37:00	78.055	58.0	58.477
2	687121	1772877	12:35:27	77.534	61.0	59.549
-9999	*	*	15:58:06	78.192	16.0	57.936

Job:1. Grid:1. Line:5.N Oper:1. CG3#:101175.
dt=93/10/16 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:17:58	77.488	16.0	57.936
2	687400	1772892	12:46:46	77.475	58.0	59.380
4	687361	1773091	12:53:18	77.817	59.0	59.004
6	687321	1773290	12:59:11	78.158	57.0	58.861
8	687271	1773484	13:05:13	78.440	60.0	58.837
10	687240	1773680	13:14:37	78.684	59.0	58.422
-9999	*	*	15:58:06	78.192	16.0	57.936

Job:1. Grid:1. Line:6.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
2	687689	1772908	17:03:40	77.203	59.0	60.128
4	687649	1773105	17:16:49	77.453	61.0	59.713
2	687689	1772908	17:22:25	77.177	61.0	60.128
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:7.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
2	688531	1773342	09:36:55	77.602	56.0	59.719
4	688593	1773523	09:43:39	78.098	61.0	60.272
6	688652	1773712	09:48:30	78.815	61.0	60.493
8	688700	1773889	09:53:34	79.381	61.0	60.905
10	688725	1774072	09:57:35	79.559	58.0	61.332
12	688740	1774272	10:02:34	78.915	60.0	62.906
14	688743	1774470	10:13:37	78.248	60.0	63.426
16	688741	1774670	10:24:41	78.459	60.0	62.603
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:8.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
2	690498	1773752	15:20:58	76.020	55.0	63.674
4	690459	1773951	15:26:15	76.363	60.0	64.518
6	690420	1774150	15:32:34	76.396	60.0	67.343
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:9.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		*	09:00:10	78.250	16.0 57.936
12	690911		1774993	14:37:50	76.790	61.0 70.613
10	690809		1774862	14:43:27	76.582	60.0 70.839
8	690859		1774666	14:50:22	75.934	59.0 71.832
6	690906		1774472	14:54:43	75.686	60.0 69.876
4	690955		1774280	14:58:47	75.618	60.0 67.619
2	691005		1774083	15:08:38	75.853	56.0 64.575
-9999	*		*	17:38:26	78.158	16.0 57.936

Job:1. Grid:1. Line:10.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		*	09:00:10	78.250	16.0 57.936
14	690619		1776142	13:45:04	76.651	60.0 73.491
13.5	690642		1776090	13:47:54	76.631	61.0 72.777
12	690672		1775951	13:57:17	77.412	60.0 69.539
10	690732		1775758	14:06:17	76.693	60.0 71.560
8	690809		1775559	14:15:54	76.464	61.0 71.483
6	690855		1775362	14:21:38	76.595	54.0 70.231
4	690921		1775172	14:26:33	75.946	57.0 73.536
2	691031		1775001	14:32:39	76.318	59.0 72.640
-9999	*		*	17:38:26	78.158	16.0 57.936

Job:1. Grid:1. Line:11.N Oper:1. CG3#:101175.

dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		*	08:47:39	78.265	16.0 57.936
2	690128		1775540	13:03:21	77.047	61.0 68.691
4	690143		1775345	13:07:54	77.157	60.0 67.551
6	690105		1775152	13:12:35	76.787	61.0 67.479
8	689962		1775091	13:18:15	77.027	60.0 66.678
10	689789		1775095	13:24:01	77.518	60.0 64.921
12	689631		1775089	13:28:40	77.589	61.0 64.926
14	689450		1775012	13:34:45	77.680	57.0 64.908
16	689271		1774926	13:38:47	77.731	60.0 64.544
18	689095		1774322	13:44:40	77.993	60.0 63.589
20	688400		1774778	13:50:25	78.305	61.0 62.487
22	688707		1774729	14:02:52	78.559	61.0 61.884
24	688515		1774678	14:09:22	78.863	58.0 61.069
-9999	*		*	17:22:13	78.191	16.0 57.936

Job:1. Grid:1. Line:12.N Oper:1. CG3#:101175.

dt=93/10/16 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		*	08:17:58	77.488	16.0 57.936
20	686511	1773203	14:36:56	79.237	60.0	56.058
18	686713	1773219	14:48:23	78.888	54.0	57.283
16	686913	1773230	14:55:37	78.785	59.0	57.170
14	687120	1773240	15:02:36	78.552	58.0	57.119
12	687321	1773252	15:12:02	78.283	59.0	58.214
10	687520	1773268	15:17:30	78.039	59.0	58.349
8	687722	1773273	15:22:10	77.674	57.0	59.650
6	687922	1773287	15:27:11	77.329	58.0	60.253
4	688127	1773299	15:31:01	77.024	58.0	60.831
2	688324	1773300	15:36:18	77.369	59.0	59.565
-9999	*		*	15:58:06	78.192	16.0 57.936

Job:1. Grid:1. Line:13.N Oper:1. CG3#:101175.
dt=93/10/16 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:17:58	77.488	16.0	57.936
2	687974	1773702	13:28:56	77.722	60.0	58.119
4	687775	1773712	13:33:22	77.984	60.0	57.566
6	687579	1773729	13:37:55	78.307	59.0	57.078
8	687380	1773740	13:43:22	78.661	57.0	56.640
10	687180	1773755	13:51:04	78.916	59.0	56.325
12	686982	1773759	13:56:33	79.211	60.0	55.925
14	686784	1773755	14:05:18	79.467	57.0	55.162
16	686588	1773750	14:13:23	79.584	61.0	54.721
18	686382	1773738	14:23:28	79.773	60.0	54.125
-9999	*	*	15:58:06	78.192	16.0	57.936

Job:1. Grid:1. Line:14.N Oper:1. CG3#:101175.
dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:47:39	78.265	16.0	57.936
14	688409	1774210	11:20:17	78.351	62.0	60.262
12.22	688568	1774142	11:13:26	78.407	60.0	61.052
12	688600	1774139	11:39:18	78.448	59.0	61.599
10	688800	1774110	11:44:17	79.364	60.0	61.983
8	688998	1774111	11:51:23	79.169	59.0	62.562
6	689158	1774241	11:57:06	78.517	60.0	64.542
4	689153	1774441	12:02:23	78.194	58.0	64.772
2	689147	1774647	12:09:03	77.750	60.0	64.669
-9999	*	*	17:22:13	78.191	16.0	57.936

Job:1. Grid:1. Line:15.N Oper:1. CG3#:101175.
dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		* 08:47:39	78.265	16.0	57.936
26	686933	1772949	09:29:10	78.141	61.0	56.681
24	687139	1772960	09:33:14	77.808	60.0	57.741
22	687339	1772972	09:47:25	77.795	58.0	57.821
20	687539	1772988	10:07:08	77.476	57.0	58.042
17	687835	1773009	10:22:13	77.012	58.0	58.205
16	687933	1773014	10:25:28	76.859	59.0	59.245
14	688132	1773025	10:34:14	76.581	54.0	59.538
12	688333	1773039	10:39:30	76.536	56.0	59.666
10	688379	1773207	10:46:11	76.760	57.0	59.892
8	688397	1773391	10:51:02	77.755	56.0	60.116
6	688440	1773588	10:55:14	78.282	57.0	59.993
4	688482	1773779	11:03:03	78.635	59.0	60.370
2	688522	1773979	11:07:14	78.642	60.0	60.966
-9999	*		* 17:22:13	78.191	16.0	57.936

Job:1. Grid:1. Line:16.N Oper:1. CG3#:101175.
dt=93/10/19 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		* 08:04:49	78.211	16.0	57.936
6	687271	1774349	08:49:23	80.019	57.0	56.179
4	687259	1774151	10:50:36	79.496	61.0	56.010
2	687246	1773949	11:04:01	79.249	58.0	56.253
-9999	*		* 11:41:03	78.138	16.0	57.936

Job:1. Grid:1. Line:17.N Oper:1. CG3#:101175.

dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
2	690253	1773979	15:45:55	76.225	59.0	65.204
4	690158	1773890	15:51:21	76.589	59.0	62.979
6	690032	1773818	15:57:13	76.653	59.0	62.583
8	689872	1773828	16:02:22	76.526	57.0	63.493
10	689831	1774029	16:08:49	76.542	59.0	63.744
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:18.N Oper:1. CG3#:101175.

dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:47:39	78.265	16.0	57.936
2	689219	1775641	14:41:21	78.802	60.0	62.741
4	689363	1775779	14:47:25	78.797	58.0	63.075
6	689380	1775898	14:52:27	78.600	60.0	64.300
8	689172	1775905	14:57:00	78.654	60.0	64.768
10	688972	1775885	15:01:59	78.888	60.0	64.226
12	688891	1775772	15:51:54	79.063	60.0	63.273
14	688868	1775571	15:57:38	79.018	60.0	62.569
-9999	*	*	17:22:13	78.191	16.0	57.936

Job:1. Grid:1. Line:19.N Oper:1. CG3#:101175.

dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:47:39	78.265	16.0	57.936
2	689542	1775350	16:19:30	78.649	58.0	62.143
4	689612	1775159	16:25:28	78.174	59.0	63.212
-9999	*	*	17:22:13	78.191	16.0	57.936

Job:1. Grid:1. Line:20.N Oper:1. CG3#:101175.
dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:47:39	78.265	16.0	57.936
2	688807	1775990	15:08:16	79.153	58.0	63.692
4	688712	1776087	15:12:46	79.237	60.0	64.051
6	688660	1776198	15:17:38	79.371	57.0	64.175
8	688745	1776385	15:23:20	79.406	58.0	64.708
10	688724	1776570	15:27:59	79.301	59.0	66.118
12	688722	1776770	15:32:10	79.244	59.0	67.985
14	688711	1776972	15:35:36	79.237	59.0	68.624
-9999	*	*	17:22:13	78.191	16.0	57.936

Job:1. Grid:1. Line:21.N Oper:1. CG3#:101175.
dt=93/10/19 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:04:49	78.211	16.0	57.936
22	686589	1774412	08:16:00	80.474	60.0	55.389
20	686780	1774415	08:23:11	80.366	60.0	55.825
18	686973	1774418	08:29:24	80.377	55.0	56.328
16	687172	1774419	08:38:33	80.288	58.0	56.832
14	687399	1774421	08:57:45	80.109	60.0	57.452
12	687599	1774418	09:02:46	79.749	59.0	58.167
10	687710	1774502	09:12:13	79.879	59.0	57.429
8	687738	1774702	09:20:24	80.048	60.0	57.443
6	687860	1774760	09:27:35	79.986	56.0	58.006
4	688051	1774709	09:32:47	79.745	57.0	58.670
2	688203	1774738	09:37:58	79.594	59.0	59.404
-9999	*	*	11:41:00	78.138	16.0	57.936

Job:1. Grid:1. Line:23.N Oper:1. CG3#:101175.
 dt=93/10/16 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:17:58	77.488	16.0	57.936
44	687247	1776817	08:31:24	78.586	59.0	65.036
42	687189	1776630	08:34:48	78.243	58.0	65.242
40	687117	1776441	08:40:46	78.137	57.0	64.584
38	687032	1776265	08:45:32	78.552	61.0	63.035
36	686946	1776080	08:49:48	79.108	62.0	62.007
34	686895	1775900	08:54:00	79.393	61.0	61.277
32	686815	1775720	08:57:27	79.720	60.0	60.765
30	686758	1775532	09:01:21	79.696	60.0	59.810
28	686718	1775337	09:04:36	79.833	59.0	58.641
26	686672	1775145	09:08:25	79.869	60.0	57.229
24	686628	1774942	09:11:36	79.895	62.0	55.654
22	686575	1774739	09:15:22	79.931	60.0	54.562
20	686510	1774557	09:18:56	79.867	61.0	54.015
18	686448	1774366	09:22:14	79.733	60.0	54.147
16	686399	1774175	09:25:39	79.580	58.0	54.440
14	686330	1773982	09:29:10	79.396	60.0	54.189
12	686272	1773785	09:32:19	79.202	59.0	55.738
10	686252	1773579	09:36:11	78.838	61.0	55.912
8	686278	1773375	09:40:30	78.684	62.0	56.177
6	686330	1773185	09:44:09	78.529	62.0	56.414
4	686412	1772995	09:47:07	78.216	60.0	57.128
2	686502	1772812	09:50:21	77.713	61.0	57.669
0	686620	1772634	09:53:38	77.170	61.0	58.136
-9999	*	*	15:58:06	78.192	16.0	57.936

Job:1. Grid:1. Line:24.N Oper:1. CG3#:101175.
dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:47:39	78.265	16.0	57.936
6	688781	1774942	13:56:13	79.297	58.0	59.396
2	688699	1775337	14:22:56	79.321	60.0	61.013
4	688740	1775139	14:29:22	79.394	57.0	59.966
-9999	*	*	17:22:13	78.191	16.0	57.936

Job:1. Grid:1. Line:25.N Oper:1. CG3#:101175.
dt=93/10/17 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:47:39	78.265	16.0	57.936
1	689099	1775400	16:07:29	79.107	59.0	60.112
5	689219	1775017	16:34:59	78.523	59.0	61.592
3	689158	1775209	16:40:44	78.988	60.0	60.284
-9999	*	*	17:22:13	78.191	16.0	57.936

Job:1. Grid:1. Line:26.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
4	689720	1775421	10:42:48	78.335	60.0	64.556
2	689910	1775472	10:52:21	77.978	58.0	65.937
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:27.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
2	688540	1774430	10:19:27	78.633	58.0	61.094
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:28.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
2	688950	1774440	10:08:32	78.481	61.0	64.781
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:29.N Oper:1. CG3#:101175.
dt=93/10/18 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:00:10	78.250	16.0	57.936
2	690300	1775860	11:03:13	77.310	60.0	69.739
4	690560	1775739	11:13:04	77.412	61.0	68.544
6	690532	1775562	11:19:14	76.988	57.0	69.506
8	690435	1775388	11:23:03	76.695	61.0	69.790
10	690479	1775280	11:28:05	77.141	60.0	67.457
12	690398	1775102	11:37:10	76.964	60.0	67.289
14	690511	1774999	11:43:19	76.730	60.0	67.774
16	690311	1774971	11:49:34	76.585	61.0	67.879
18	690149	1775002	11:55:15	76.702	60.0	67.369
20	689961	1775079	12:03:41	77.097	59.0	66.746
22	689361	1775003	12:09:52	77.353	60.0	65.724
24	689847	1774799	12:15:34	76.680	58.0	66.725
26	689830	1774600	12:21:14	76.746	60.0	65.592
28	689818	1774403	12:27:25	76.583	58.0	65.240
30	689721	1774298	12:36:38	76.819	58.0	64.250
-9999	*	*	17:38:26	78.158	16.0	57.936

Job:1. Grid:1. Line:30.N Oper:1. CG3#:101175.
dt=93/10/19 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:04:49	78.211	16.0	57.936
14	687201	1774400	09:07:23	79.669	58.0	57.192
12	687651	1774232	09:51:40	79.381	58.0	57.011
10	687581	1774049	09:59:33	79.038	59.0	56.98
8	687412	1774059	10:04:31	79.457	58.0	56.174
6	687215	1774068	11:09:56	79.506	60.0	55.960
4	687013	1774072	11:17:16	79.702	57.0	55.589
2	686942	1773945	11:22:26	79.609	58.0	55.575
-9999	*	*	11:41:03	78.138	16.0	57.936

Job:1. Grid:1. Line:31.N Oper:1. CG3#:101175.
dt=94/03/09 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		* 09:10:42	163.595		16.0 57.936
2	690719		1776716 13:25:27	163.279	61.0	68.456
4	690498		1776914 13:30:39	163.393	62.0	69.474
6	690310		1776991 13:34:30	163.446	60.0	69.741
8	690145		1777120 13:38:04	163.530	57.0	70.434
10	690010		1777269 13:42:03	163.803	62.0	70.581
12	689869		1777429 13:48:28	163.918	61.0	71.437
14	689700		1777539 13:54:21	164.662	59.0	69.169
16	689561		1777681 14:00:33	165.367	54.0	67.969
18	689442		1777840 14:05:39	166.061	64.0	67.046
20	689379		1777707 14:11:27	165.486	64.0	67.447
22	689333		1777516 14:16:49	165.140	61.0	67.280
24	689285		1777311 14:22:07	164.924	61.0	66.976
-9999	*		* 15:30:39	163.660		16.0 57.936

Job:1. Grid:1. Line:39.N Oper:1. CG3#:101175.
dt=94/04/23 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:19:59	162.616	16.0	57.936
300	693000	1771500	13:06:28	159.811	52.0	65.166
280	692800	1771500	13:11:34	159.836	52.0	64.749
262	692620	1771500	13:17:43	159.673	49.0	64.644
240	692400	1771500	13:25:03	160.011	53.0	61.567
220	692200	1771500	13:34:17	159.991	56.0	61.911
200	692000	1771500	13:41:24	159.879	57.0	63.231
180	691800	1771500	13:53:46	160.501	54.0	61.980
160	691600	1771500	13:59:07	160.647	56.0	59.528
134	691340	1771500	14:07:48	159.867	53.0	60.397
120	691200	1771500	14:14:33	159.653	54.0	60.027
100	691000	1771500	14:24:49	159.793	56.0	59.638
80	690800	1771500	14:29:51	159.859	55.0	59.542
60	690600	1771500	14:36:21	159.995	56.0	58.864
40	690400	1771500	14:41:44	159.929	62.0	58.768
20	690200	1771500	14:52:33	159.960	52.0	57.386
0	690000	1771500	14:58:30	159.325	54.0	58.522
-9999	*	*	15:44:20	162.687	16.0	57.936

Job:1. Grid:1. Line:32.N Oper:1. CG3#:101175.
dt=94/03/08 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		* 09:26:56	163.610	16.0	57.936
18	686833	1775620	10:30:40	165.752	58.0	60.227
18	686833	1775620	10:32:42	165.772	58.0	60.227
16	687021	1775580	10:41:42	165.603	56.0	57.985
17	686421	1775591	10:48:19	165.724	58.0	58.270
14	687217	1775549	10:53:01	165.745	60.0	58.178
12	687410	1775500	10:57:45	165.616	59.0	60.202
10	687297	1775461	11:06:51	165.498	60.0	59.721
8	687288	1775456	11:12:26	165.760	59.0	57.993
7	687884	1775443	11:17:13	165.971	58.0	56.748
6	687888	1775348	11:22:23	165.873	61.0	56.428
4	687911	1775129	11:27:45	165.625	59.0	56.624
2	687879	1774981	11:34:40	165.548	57.0	56.698
-9999	*		* 12:02:50	163.520	16.0	57.936

Job:1 Grid:1. Line:33.N Oper:1. CG3#:101175
dt=94/03/10 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		* 09:58:04	163.559	16.0	57.936
2	687562	1777702	10:18:06	166.008	59.0	61.478
4	687749	1777632	10:22:19	165.956	55.0	60.375
6	687859	1777522	10:26:25	165.824	56.0	61.046
8	688050	1777550	10:30:32	165.772	52.0	61.533
10	688243	1777577	10:34:59	165.640	53.0	61.909
12	688445	1777601	10:38:37	165.629	57.0	62.723
14	688571	1777498	10:42:22	165.318	56.0	64.310
16	688659	1777313	10:45:58	164.667	57.0	65.419
17	688708	1777230	10:50:56	164.465	58.0	66.315
-9999	*		* 13:36:32	163.583	16.0	57.936

Job:1. Grid:1. Line:34.N Oper:1. CG3#:101175.
dt=94/03/10 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		* 09:58:04	163.559	16.0	57.936
9	687889	1776211	11:47:04	165.213	61.0	62.787
7	687929	1776408	11:50:28	165.213	60.0	64.196
5	687965	1776603	11:54:46	165.184	61.0	65.767
3	688009	1776798	11:59:04	165.025	60.0	66.883
1	688090	1776981	12:03:10	164.857	60.0	67.463
-9999	*		* 13:36:32	163.583	16.0	57.936

Job:1. Grid:1. Line:35.N Oper:1. CG3#:101175.

dt=94/03/09 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:10:42	163.595	16.0	57.936
2	689130	1777578	14:27:52	165.488	60.0	66.482
4	688953	1777659	14:33:38	165.793	58.0	64.794
6	688777	1777743	14:37:59	165.877	57.0	63.570
8	688590	1777828	14:41:51	166.049	59.0	61.864
10	688409	1777912	14:46:06	166.122	55.0	60.808
12	688210	1777898	14:58:29	166.121	55.0	60.428
14	688015	1777876	15:05:50	166.136	57.0	60.194
16	687811	1777858	15:10:41	166.428	61.0	58.974
18	687789	1778190	15:15:57	166.251	58.0	59.790
-9999	*	*	15:30:39	163.660	16.0	57.936

Job:1. Grid:1. Line:36.N Oper:1. CG3#:101175.

dt=94/03/09 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:10:42	163.595	16.0	57.936
1	689340	1777092	11:27:55	164.613	55.0	65.948
3	689432	1776911	11:33:47	164.255	61.0	66.703
5	689521	1776724	11:38:28	163.786	61.0	66.985
7	689598	1776538	11:42:14	164.027	63.0	63.822
9	689679	1776360	11:47:32	164.109	61.0	62.220
11	689759	1776182	11:51:49	163.881	59.0	62.213
12	689804	1776092	11:56:06	163.773	60.0	62.557
13	689839	1776008	12:00:45	163.455	60.0	63.482
-9999	*	*	15:30:39	163.660	16.0	57.936

Job:1. Grid:1. Line:37.N Oper:1. CG3#:101175.

dt=94/03/08 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	09:26:56	163.610	16.0	57.936
2	686729	1775031	09:54:59	165.983	59.0	56.174
4	686932	1775051	10:03:10	166.002	59.0	56.480
5	687031	1775061	10:16:28	166.091	56.0	56.374
-9999	*	*	12:02:50	163.520	16.0	57.936

Job:1. Grid:1. Line:38.N Oper:1. CG3#:101175.
 dt=94/04/23 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		* 08:19:59		162.616	16.0 57.936
174	688260		1772000 09:16:41		161.502	57.0 56.512
160	688400		1772000 09:25:34		161.328	49.0 55.798
140	688600		1772000 09:33:53		160.723	50.0 56.348
120	688800		1772000 09:42:18		160.380	55.0 56.843
100	689000		1772000 09:49:37		160.157	49.0 56.823
80	689200		1772000 09:54:51		159.605	53.0 57.388
60	689400		1772000 10:01:17		159.363	52.0 58.088
40	689600		1772000 10:06:41		158.922	53.0 58.432
20	689800		1772000 10:12:07		158.401	56.0 59.290
0	690000		1772000 10:18:01		158.570	55.0 59.619
20	690200		1772000 10:24:22		159.190	56.0 59.859
40	690400		1772000 10:29:33		159.509	57.0 60.079
60	690600		1772000 10:36:45		159.599	55.0 60.580
80	690800		1772000 10:42:56		159.600	59.0 60.917
100	691000		1772000 10:48:16		159.650	55.0 61.233
120	691200		1772000 10:56:42		159.582	56.0 61.213
140	691400		1772000 11:04:31		159.614	56.0 61.189
160	691600		1772000 11:10:17		160.076	54.0 60.663
180	691800		1772000 11:15:49		160.378	56.0 60.659
200	692000		1772000 11:23:59		160.531	56.0 61.156
218	692180		1772000 11:29:38		160.524	54.0 61.355
242	692420		1772000 11:36:02		160.217	55.0 61.843
262	692620		1772000 11:45:53		160.413	54.0 62.666
278	692780		1772000 11:55:42		160.500	60.0 64.258
-9999	*		* 15:44:20		160.687	16.0 57.936

Job:1. Grid:1. Line:40.N Oper:1. CG3#:101175.
 dt=94/04/24 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:36:33	162.576	16.0	57.936
16	690160	1771150	09:14:48	159.525	57.0	58.077
30	690300	1771150	09:23:09	160.118	58.0	58.077
50	690500	1771150	09:28:54	160.093	55.0	58.444
70	690700	1771150	09:34:19	160.028	55.0	58.571
90	690900	1771150	09:39:44	159.964	58.0	58.537
110	691100	1771150	09:45:24	159.869	59.0	59.115
130	691300	1771150	09:52:03	159.794	55.0	59.699
152	691520	1771150	09:58:16	160.260	53.0	59.580
170	691700	1771150	10:03:37	160.347	55.0	59.854
190	691900	1771150	10:08:27	160.024	56.0	61.423
210	692100	1771150	10:14:04	159.550	57.0	63.694
230	692300	1771150	10:19:56	159.157	50.0	65.295
250	692500	1771150	10:25:43	159.015	54.0	66.396
270	692700	1771150	10:31:42	158.223	52.0	70.659
290	692900	1771150	10:37:25	158.111	51.0	71.665
300	693000	1771150	10:43:56	158.769	55.0	68.657
-9999	*	*	13:24:24	162.535	16.0	57.936

Job:1. Grid:1. Line:41.N Oper:1. CG3#:101175.
 dt=94/05/07 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*	*	08:07:06	162.472	16.0	57.936
300	693000	1770500	10:55:34	158.381	58.0	67.902
284	692840	1770500	11:00:54	158.572	56.0	66.843
260	692600	1770500	11:07:57	158.634	62.0	66.098
240	692400	1770500	11:14:18	158.726	45.0	64.235
220	692200	1770500	11:20:26	159.338	56.0	61.982
196	691960	1770500	11:27:10	159.400	55.0	61.525
172	691720	1770500	11:37:39	158.985	54.0	61.104
160	691600	1770500	11:43:24	158.938	52.0	60.624
140	691400	1770500	12:03:03	158.908	57.0	59.751
118	691180	1770500	12:08:13	158.902	61.0	59.825
100	691000	1770500	12:13:48	158.805	54.0	60.290
80	690800	1770500	12:19:16	158.889	53.0	58.928
58	690580	1770500	12:25:02	159.013	52.0	58.519
40	690400	1770500	12:32:24	159.238	59.0	58.352
20	690200	1770500	12:38:22	159.043	57.0	57.782
0	690000	1770500	12:44:08	159.287	55.0	57.403
-9999	*	*	13:08:25	162.436	16.0	57.936



Job:1. Grid:1. Line:42.N Oper:1. CG3#:101175.
 dt=94/05/07 gm=-7

Stn	X	Y	Time	Rdng	In_Ht	Elev
-9999	*		*	08:07:06	162.472	16.0 57.936
0	690000		1770000	08:54:47	158.988	59.0 58.008
20	690200		1770000	09:02:05	158.894	57.0 57.751
40	690400		1770000	09:11:54	158.809	54.0 58.139
60	690600		1770000	09:16:59	158.756	56.0 58.694
80	690800		1770000	09:24:44	158.672	54.0 59.650
102	691020		1770000	09:32:10	158.949	52.0 59.794
122	691220		1770000	09:39:59	158.906	56.0 59.689
140	691400		1770000	09:48:31	158.704	55.0 60.398
160	691600		1770000	09:54:21	158.452	56.0 61.240
180	691800		1770000	10:00:19	158.491	57.0 61.634
202	692020		1770000	10:06:23	158.620	56.0 62.376
220	692200		1770000	10:11:41	158.629	55.0 62.718
240	692400		1770000	10:17:05	158.599	59.0 63.030
260	692600		1770000	10:24:18	158.718	56.0 63.034
280	692800		1770000	10:32:17	158.718	57.0 63.257
300	693000		1770000	10:38:35	158.528	57.0 64.257
-9999	*		*	13:08:25	162.436	16.0 57.936


มหาวิทยาลัยเชียงใหม่
Chiang Mai University

APPENDIX B
Drilled hole data




WELL NO. CD-2

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
5				<p>Lateritic soil and lateritic crust.</p>	
10 15 16.5		TD		<p>Andesite, medium grained size of particles, a bit coarser than CD-1 apparently, more fractures and calcite fill throughout</p>	
20					
25					
30					
35					
40					





WELL NO. CD-3

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
				Laterite crust turning clayey and more yellowish tint closer the bed rocks.	
5	V V				
	V V			Weathered andesite, yellowish brown, friable.	
	V V				
	V V				
10	V V				
	V V				
	V V				
	V V				
	V V			Denser and fresher and tuff, general apperances similar to CD-1 & 2, pyrites or other sulphides disseminated common.	
	V V				
15	V V				
	V V				
	V V				
	V V				
	V V				
20	V V	TD			
25					
30					
35					
40					








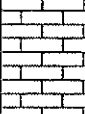

WELL NO. CD-4

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
					
5				Laterite crust, brown to dark brown, upper 4 weathered turning to yellowish brown of tuff	
10		TD			
15					
20					
25					
30					
35					
40					

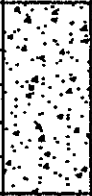

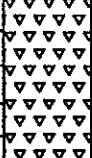



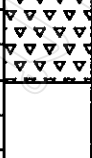
WELL NO. CD-5

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
5				<p>Laterite crust</p>	
10				<p>Highly weathered andesite, brown to greenish brown</p> <p>Fresh andesite, appear to show layering (faint) of different grain size from 9 to 10 m layers are 2 to 3 cm thick, not clearly seen elsewhere.</p>	
15					
20					
25					
30					
35					
40					







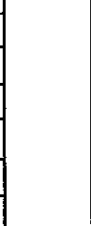
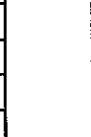
WELL NO. CD-6

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
				Laterite crust, reddish brown.	
5				Grey brecciated limestone, tightly packed and filled with calcite veinlets, origin rock may be mudstone to wackstone, fragments are only a few cm across, some appear darker.	
10					
50				48 to 49 m deep, deformed structure	
				49 to 53 m deep, highly weathered, rather clayey	
55					
60				56 to 70 m deep, better core recovery in spite of being brecciated, brecciated structure not as clear as above.	
65					
70		TD			



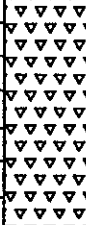


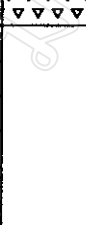

WELL NO. CD-7

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
				Lateritic top soil.	
5				Highly weathered and tuff, light brown	
10				Fresh and tuff, dark greyish green, coarser grain with abundant bright pink spots weathered feldspar ?	
15					
20				Fragment nature, some are few cm across.	
25					
30		TD			
35					
40					

WELL NO. CD-8

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
				Lateritic top soil.	
5				Friable weathered rock, brown, rock fragments up to 5 to 7 cm across and tuff	
10				Lower degree of weathering, the fresh and tuff, fragments clear, colour more of olive green rather the dark green as others	
15				19 to 24 m deep, red dominates the core, light olive green	
20					
25					
30					
35		TD			
40					

WELL NO. CD-9

Depth (m)	Litho.	Feat.	Def.	General Description	Remark & Photo
				Lateritic crust	
5				Highly weathered and tuff, light brown to brown	
10				Denser, dark and tuff, coarse grained, large fragments not distinct, veinlets common, calcite fill	
15					
20					
25					
30		TD			
35					
40					

Curriculum vitae

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