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* 平面角邊混合控制網嚴密平差及可靠度分析 *
*
*      VERSION 2.0  1991.10.      *
*      VERSION 3.00 2000.09      *
*      ADD DATUM & LONGITUDE OF  *
*      CENTRAL MERIDIAN          *
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檔案名稱：1140311 東勢區新盛重劃區圖根 TWD97[1997]角邊混合網平差

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角  度觀測量個數 ..... 88
距  離觀測量個數 ..... 64
方位角觀測量個數 ..... 0
總觀測量個數 ..... 152

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讀入點位近似座標：

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已知點數目..... 17
未知點數目..... 32
總點數..... 49

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二度分帶 TM 座標系統地球原子：

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橢球長半徑 ..... 6378137. (M)
扁  率 ..... 1/298.257222101
座標原點西移量 ..... 250000. (M)
中央子午線位置 ..... 東經 121. 度
中央子午線尺度比 .... 0.9999
測區中央近似緯度 .... 24-14-25.

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已知點座標標準誤差等級：

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等  級          中誤差
1              0.10E-03

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2	0.10E-02
3	0.10E-01

觀測量先驗標準誤差等級：

等 級	中誤差
1	0.005
2	5.320

法係數矩陣元素個數： 3466

[ 漸近求解次數 1 ]

自由度 .....	87
平均多餘觀測數 ....	0.57
單位權中誤差 .....	4.2888
最大座標改正量點名：	HQ836 ( 0.011M)
網形尺度參數 .....	0.99997552

[ 漸近求解次數 2 ]

自由度 .....	87
平均多餘觀測數 ....	0.57
單位權中誤差 .....	1.0000
最大座標改正量點名：	BQ802 ( 0.000M)
網形尺度參數 .....	0.99997552

觀測量平差成果及可靠度分析

判斷：.. 正常

- 1. 個別多餘數 < 0.25
- .R 標準化改正數 > 3
- 1R 個別多餘數 < 0.25 且標準化改正數 > 3
- # 角度改正數超過 20 秒
- \$ 距離改正數超過 3 公分或比值 < 1/3000
- \$! 距離改正數低於 3 公分惟比值 < 1/3000

						投影 標準化 個 別				距離	
項次	後視	測站	前視	觀測量	精度	改正數	改正	改正數	多餘數	判斷	精度分母
=====											
1		HQ835	GJ223	27.126	0.006	-0.002	-.003	0.4	0.95	..	11694.
2		GJ221	HJ327	27.179	0.006	-0.003	-.003	0.4	0.96	..	10731.
3		HQ829	BQ812	28.261	0.006	0.002	-.003	0.4	0.42	..	18797.
4		HJ330	HJ329	29.033	0.006	0.004	-.003	0.7	0.93	..	6800.
5		HJ369	HJ370	29.439	0.006	0.000	-.003	0.0	0.93	..	132790.
6		BQ822	GJ221	35.126	0.006	0.002	-.003	0.5	0.31	..	19293.
7		GJ223	BQ806	35.909	0.006	0.001	-.003	0.2	0.77	..	29906.
8		GJ221	BQ801	38.181	0.006	-0.003	-.004	0.6	0.67	..	11538.
9		GJ224	HJ355	38.241	0.006	-0.002	-.004	0.3	0.96	..	23751.
10		BQ811	GJ224	39.203	0.006	-0.001	-.004	0.4	0.30	..	30075.
11		HQ835	HJ330	40.359	0.006	-0.006	-.004	0.9	0.92	..	7327.
12		HJ370	HJ371	41.337	0.006	-0.003	-.004	0.5	0.94	..	14795.
13		BQ821	BQ822	41.766	0.006	0.002	-.004	0.5	0.39	..	22713.
14		HQ828	BQ815	46.245	0.006	0.001	-.004	0.2	0.79	..	40061.
15		HQ836	BQ813	46.258	0.006	0.000	-.004	0.0	0.56	..	278130.
16		BQ801	HQ832	46.506	0.006	-0.001	-.004	0.2	0.44	..	57245.
17		BQ814	BQ815	46.848	0.006	-0.001	-.005	0.4	0.34	..	31330.
18		BQ819	HQ823	46.939	0.006	0.002	-.005	0.3	0.73	..	26457.
19		HQ836	HJ377	48.060	0.006	-0.001	-.005	0.1	0.63	..	90823.
20		BQ810	BQ811	48.152	0.006	0.000	-.005	0.0	0.29	..	383330.
21		BQ820	HQ833	48.428	0.006	-0.002	-.005	0.4	0.67	..	20757.
22		HQ827	BQ816	48.950	0.006	0.001	-.005	0.1	0.81	..	80621.
23		HQ831	HQ835	49.431	0.006	0.002	-.005	0.4	0.46	..	27252.
24		BQ806	BQ818	51.515	0.006	-0.001	-.005	0.1	0.73	..	82200.
25		HQ834	HQ824	51.700	0.006	0.000	-.005	0.0	0.77	..	99999999.
26		HQ832	HQ830	53.093	0.006	-0.001	-.005	0.3	0.43	..	46065.
27		BQ812	GJ224	54.045	0.006	-0.001	-.005	0.2	0.71	..	66727.
28		BQ818	HQ825	54.170	0.006	-0.002	-.005	0.3	0.70	..	36075.
29		HQ825	HQ826	54.261	0.006	-0.003	-.005	0.6	0.69	..	18524.
30		HJ356	HJ369	54.333	0.006	0.000	-.005	0.0	0.93	..	181952.
31		BQ808	HJ349	54.535	0.006	-0.002	-.005	0.5	0.63	..	22807.
32		HQ823	HQ833	54.653	0.006	-0.001	-.005	0.1	0.78	..	80466.
33		BQ806	HJ349	54.936	0.006	0.000	-.005	0.1	0.77	..	170765.

34	HQ823	HQ825	55.116	0.006	-0.002	-.005	0.3	0.81	..	33930.
35	BQ815	BQ816	55.273	0.006	-0.001	-.005	0.1	0.60	..	86809.
36	BQ802	HJ326	55.301	0.006	0.000	-.005	0.1	0.44	..	185978.
37	HQ828	HQ829	56.027	0.006	-0.002	-.005	0.5	0.40	..	30679.
38	BQ818	BQ819	56.184	0.006	0.002	-.005	0.3	0.77	..	29945.
39	HQ827	HQ828	56.641	0.006	-0.001	-.005	0.2	0.60	..	50484.
40	BQ809	BQ810	56.915	0.006	0.002	-.005	0.5	0.32	..	32608.
41	HQ823	HQ824	57.209	0.006	0.002	-.006	0.3	0.72	..	37188.
42	HJ371	HQ836	58.025	0.006	0.007	-.006	1.3	0.64	..	8733.
43	HQ826	HQ827	58.747	0.006	-0.005	-.006	0.8	0.75	..	12886.
44	BQ819	BQ820	59.402	0.006	-0.002	-.006	0.4	0.76	..	27976.
45	HJ355	HJ356	59.758	0.006	0.001	-.006	0.1	0.94	..	106470.
46	HQ824	HQ826	59.800	0.006	-0.002	-.006	0.3	0.83	..	37213.
47	HQ833	HQ834	61.610	0.006	0.000	-.006	0.1	0.67	..	169233.
48	BQ812	BQ813	61.698	0.006	-0.003	-.006	0.6	0.66	..	19425.
49	BQ801	BQ802	61.955	0.006	-0.001	-.006	0.3	0.42	..	59526.
50	BQ808	BQ809	64.347	0.006	-0.002	-.006	0.5	0.69	..	26186.
51	HJ326	HJ330	64.989	0.006	0.003	-.006	0.5	0.93	..	20019.
52	HQ824	BQ816	66.103	0.006	0.000	-.006	0.0	0.75	..	258766.
53	HQ830	HQ831	66.197	0.006	0.003	-.006	0.8	0.45	..	20387.
54	HQ834	BQ817	66.411	0.006	0.000	-.006	0.1	0.68	..	188383.
55	HJ330	GJ223	66.799	0.006	-0.004	-.006	0.6	0.96	..	17477.
56	BQ809	HQ827	69.161	0.006	-0.004	-.007	0.7	0.77	..	17249.
57	HQ826	BQ808	69.591	0.006	-0.002	-.007	0.3	0.78	..	38524.
58	BQ813	BQ814	73.941	0.006	0.000	-.007	0.1	0.37	..	209365.
59	BQ816	BQ817	75.672	0.006	-0.002	-.007	0.4	0.68	..	39748.
60	HQ830	BQ819	77.335	0.006	0.009	-.007	1.7	0.62	..	9021.
61	BQ820	BQ821	84.354	0.006	0.002	-.008	0.5	0.32	..	49254.
62	BQ817	GJ222	267.476	0.006	-0.004	-.026	0.8	0.50	..	71276.
63	GJ221	GJ222	318.192	0.006	0.003	-.031	0.5	0.78	..	111401.
64	GJ223	GJ224	350.494	0.006	0.003	-.034	0.6	0.73	..	113727.
65	HQ832	HQ830	85.5240	6.75	2.83	-.002	0.7	0.35	..	
66	HQ835	GJ223	171.4258	6.75	-8.45	-.016	1.7	0.55	..	
67	HQ830	HQ831	189.2736	6.75	5.90	0.001	1.6	0.30	..	
68	BQ801	HQ832	181.3025	6.75	-3.10	-.004	0.9	0.29	..	
69	BQ819	BQ820	84.1503	6.75	-1.18	-.002	0.3	0.29	..	
70	GJ221	BQ801	304.4425	6.75	-6.40	-.001	1.5	0.41	..	
71	BQ820	HQ833	181.0419	6.75	-0.51	-.005	0.1	0.28	..	

72	HQ829	BQ812	GJ224	130.2221	6.75	-2.15	-,001	0.6	0.30	..
73	HQ833	HQ834	BQ817	197.5144	6.75	1.32	-,006	0.3	0.37	..
74	HQ828	HQ829	BQ812	154.0743	6.75	-3.28	-,003	1.0	0.24	1.
75	HQ834	BQ817	GJ222	288.0823	6.75	3.28	0.002	0.7	0.55	..
76	HQ827	HQ828	HQ829	184.5047	6.75	-5.50	-,005	1.6	0.26	..
77	GJ223	GJ224	HJ355	144.0201	6.75	-4.15	-,016	0.7	0.81	..
78	HQ826	HQ827	HQ828	163.4834	6.75	-8.72	-,005	2.1	0.37	..
79	GJ224	HJ355	HJ356	206.4813	6.75	-2.53	-,003	0.5	0.53	..
80	HQ825	HQ826	HQ827	189.2620	6.75	-9.35	-,005	2.1	0.45	..
81	HJ355	HJ356	HJ369	266.5204	6.75	-5.60	-,003	1.1	0.57	..
82	BQ818	HQ825	HQ826	172.2816	6.75	-1.06	-,005	0.3	0.39	..
83	HJ356	HJ369	HJ370	171.2938	6.75	2.41	-,002	0.6	0.36	..
84	BQ806	BQ818	HQ825	97.3103	6.75	-3.60	-,003	0.8	0.42	..
85	HJ369	HJ370	HJ371	182.1449	6.75	1.77	-,002	0.5	0.32	..
86	HQ824	BQ816	BQ815	171.1751	6.75	-0.01	-,005	0.0	0.37	..
87	HJ370	HJ371	HQ836	265.0524	6.75	-3.55	0.001	0.9	0.36	..
88	HQ823	HQ824	BQ816	174.0006	6.75	-2.69	-,005	0.7	0.36	..
89	HJ371	HQ836	BQ813	216.1412	6.75	0.17	0.004	0.1	0.24	1.
90	BQ819	HQ823	HQ824	178.1846	6.75	-10.68	-,004	2.4	0.44	..
91	HQ836	BQ813	BQ814	153.4246	6.75	2.81	0.005	0.9	0.23	1.
92	BQ818	BQ819	HQ823	96.0730	6.75	-10.34	-,003	2.3	0.46	..
93	HQ831	HQ835	HJ330	101.3339	6.75	10.36	0.002	2.5	0.39	..
94	BQ822	GJ221	GJ222	44.2921	6.75	-1.57	-,008	0.4	0.37	..
95	HJ326	HJ330	HQ835	206.4055	6.75	-8.24	-,004	1.5	0.66	..
96	BQ821	BQ822	GJ221	204.4753	6.75	-1.66	0.003	0.5	0.26	..
97	HQ827	HQ828	BQ815	274.5744	6.75	-1.30	-,003	0.3	0.33	..
98	BQ820	BQ821	BQ822	144.5719	6.75	-1.58	0.005	0.5	0.21	1.
99	HQ826	HQ827	BQ809	85.3426	6.75	-1.76	-,002	0.4	0.39	..
100	BQ819	BQ820	BQ821	289.0905	6.75	-1.93	0.003	0.5	0.31	..
101	HQ826	HQ827	BQ816	256.4820	6.75	1.25	-,003	0.3	0.37	..
102	BQ818	BQ819	BQ820	186.1355	6.75	-1.66	-,001	0.4	0.42	..
103	HQ825	HQ826	BQ808	90.2329	6.75	1.92	-,001	0.5	0.36	..
104	BQ806	BQ818	BQ819	180.3518	6.75	-10.57	-,001	2.4	0.44	..
105	HQ825	HQ826	HQ824	274.4404	6.75	6.67	-,003	1.6	0.39	..
106	GJ223	BQ806	BQ818	262.1140	6.75	-10.82	-,002	2.5	0.43	..
107	HQ823	HQ824	HQ834	265.4400	6.75	0.25	-,003	0.1	0.35	..
108	BQ811	GJ224	BQ812	275.1019	6.75	-0.98	-,002	0.2	0.49	..
109	BQ818	HQ825	HQ823	270.2814	6.75	-1.89	-,003	0.5	0.35	..

110	BQ810	BQ811	GJ224	187.4032	6.75	0.22	-.004	0.1	0.35	..
111	BQ819	HQ823	HQ825	91.1643	6.75	1.43	-.002	0.4	0.36	..
112	BQ809	BQ810	BQ811	190.1616	6.75	-2.60	-.004	0.8	0.24	1.
113	HQ823	HQ824	HQ826	89.4229	6.75	-6.40	-.002	1.5	0.38	..
114	BQ808	BQ809	BQ810	160.1414	6.75	-5.52	-.005	1.6	0.27	..
115	BQ819	HQ823	HQ833	268.4828	6.75	0.20	-.002	0.1	0.34	..
116	HJ349	BQ808	BQ809	189.3420	6.75	-4.11	-.005	0.8	0.62	..
117	BQ818	BQ819	HQ830	271.0126	6.75	-1.84	0.003	0.4	0.37	..
118	BQ806	HJ349	BQ808	190.5103	6.75	-13.91	-.004	2.9	0.49	..
119	HQ832	HQ830	BQ819	173.4930	6.75	-2.16	-.006	0.6	0.29	..
120	GJ223	BQ806	HJ349	160.5944	6.75	-1.57	-.004	0.4	0.37	..
121	HQ834	HQ833	HQ823	273.2235	6.75	-0.79	0.003	0.2	0.34	..
122	HJ330	GJ223	BQ806	169.4744	6.75	-4.55	-.004	0.8	0.66	..
123	BQ817	HQ834	HQ824	250.4457	6.75	-0.74	0.003	0.2	0.34	..
124	BQ817	GJ222	GJ221	292.0401	6.75	-1.64	0.015	0.3	0.82	..
125	BQ815	BQ816	HQ827	275.5450	6.75	-0.47	0.003	0.1	0.38	..
126	BQ816	BQ817	GJ222	214.5008	6.75	0.08	0.004	0.0	0.36	..
127	BQ814	BQ815	HQ828	263.0806	6.75	1.26	0.003	0.3	0.33	..
128	BQ815	BQ816	BQ817	102.5927	6.75	0.89	0.001	0.2	0.40	..
129	BQ808	BQ809	HQ827	265.4629	6.75	2.00	-.003	0.5	0.38	..
130	BQ814	BQ815	BQ816	165.1532	6.75	-1.00	0.004	0.2	0.37	..
131	HJ349	BQ808	HQ826	270.4344	6.75	-1.08	-.003	0.3	0.41	..
132	BQ813	BQ814	BQ815	198.4812	6.75	-0.59	0.005	0.2	0.31	..
133	HJ371	HQ836	HJ377	0.1757	6.75	4.92	0.000	0.8	0.93	..
134	BQ812	BQ813	BQ814	295.2418	6.75	-4.87	0.001	1.2	0.37	..
135	HJ370	HJ371	HJ377	263.3825	6.75	2.74	-.001	1.5	0.07	1.
136	GJ224	BQ812	BQ813	128.1638	6.75	-7.18	-.002	1.8	0.34	..
137	BQ801	GJ221	HJ327	350.4637	6.75	-3.41	0.000	0.9	0.28	..
138	GJ223	GJ224	BQ812	282.4820	6.75	-5.62	-.015	1.1	0.63	..
139	GJ223	GJ224	HJ355	144.0201	6.75	-4.15	-.016	0.7	0.81	..
140	HJ330	GJ223	GJ224	161.4528	6.75	-3.40	-.017	0.5	0.93	..
141	BQ811	GJ224	HJ355	136.2357	6.75	3.49	-.003	0.7	0.53	..
142	HJ326	HJ330	GJ223	200.0021	6.75	-0.71	-.006	0.1	0.78	..
143	BQ810	GJ224	HJ354	338.0626	6.75	-0.57	-.003	0.4	0.05	1.
144	BQ802	HJ326	HJ330	260.1020	6.75	-11.53	-.002	2.4	0.52	..
145	HJ330	HQ835	HJ331	50.5446	6.75	-1.97	-.001	2.2	0.02	1.
146	BQ801	BQ802	HJ326	183.0555	6.75	-4.02	0.001	1.1	0.27	..
147	HQ835	HJ330	HJ329	139.4907	6.75	-9.60	0.003	2.8	0.25	1.

148	GJ221	BQ801	BQ802	213.1204	6.75	4.39	0.002	1.0	0.41	..
149	GJ223	HJ330	HJ326	159.5940	6.75	-0.29	0.006	0.0	0.78	..
150	GJ222	GJ221	BQ801	181.1951	6.75	0.20	0.011	0.0	0.60	..
151	BQ809	BQ808	HJ349	170.2540	6.75	4.11	0.005	0.8	0.62	..
152	HQ831	HQ835	GJ223	264.5600	6.75	-2.06	-.001	0.5	0.34	..

點位座標及絕對誤差橢圓：

加權							
編號	等級	點 名	N-座標	E-座標	長軸	短軸	方位角
=====							
1	1	GJ221	2681866.190	232797.034	0.000	0.000	37-17- 7.
2	1	GJ222	2681638.799	232574.489	0.000	0.000	144-52-36.
3	1	GJ223	2681783.832	232957.250	0.000	0.000	176-32- 3.
4	1	GJ224	2681447.031	233054.181	0.000	0.000	138- 9-51.
5	2	HJ326	2681912.444	232939.913	0.001	0.001	152-25-46.
6	2	HJ330	2681850.574	232959.799	0.001	0.001	173- 7-58.
7	2	HJ349	2681699.341	232987.217	0.001	0.001	161-34-58.
8	2	HJ355	2681423.502	233084.321	0.001	0.001	132-20-26.
9	2	HJ354	2681454.542	233049.009	0.001	0.000	145-27- 7.
10	2	HJ331	2681816.385	232963.333	0.001	0.001	59-46-25.
11	2	HJ329	2681875.377	232944.705	0.001	0.001	148-58-10.
12	2	HJ327	2681888.042	232813.191	0.001	0.001	36-29- 5.
13	2	HJ377	2681310.039	232997.862	0.001	0.001	139-25- 6.
14	2	HJ369	2681343.642	233061.971	0.001	0.001	56-46-44.
15	2	HJ370	2681325.984	233038.419	0.001	0.001	54-10-34.
16	2	HJ371	2681302.507	233004.403	0.001	0.001	120-51-56.
17	2	HJ356	2681369.444	233109.783	0.001	0.001	14- 1-13.
18	0	BQ801	2681892.850	232824.359	0.004	0.001	51-11-37.
19	0	BQ802	2681904.760	232885.152	0.005	0.001	77-15-33.
20	0	BQ812	2681443.966	233000.228	0.003	0.001	86-42-39.
21	0	BQ813	2681393.446	232964.823	0.003	0.003	173- 6- 8.
22	0	BQ814	2681457.750	232928.334	0.006	0.003	161-12-54.
23	0	BQ815	2681503.768	232919.580	0.005	0.003	160-23-41.
24	0	BQ816	2681553.648	232895.777	0.004	0.003	159- 9-14.
25	0	BQ817	2681537.245	232821.912	0.004	0.004	78-31-51.
26	0	BQ806	2681748.275	232962.259	0.003	0.001	169- 1-54.

27	0	BQ808	2681646.971	233002.408	0.004	0.001	167-10- 5.
28	0	BQ809	2681583.058	233009.809	0.004	0.002	168-23-46.
29	0	BQ810	2681532.067	233035.087	0.006	0.002	165-33-42.
30	0	BQ811	2681485.807	233048.439	0.005	0.001	170-52-57.
31	0	BQ818	2681734.227	232912.701	0.003	0.003	38- 8-18.
32	0	BQ819	2681719.457	232858.495	0.003	0.003	162-59-54.
33	0	BQ820	2681710.156	232799.832	0.004	0.003	157-36-12.
34	0	BQ821	2681793.188	232814.684	0.005	0.002	173- 6-42.
35	0	BQ822	2681831.069	232797.096	0.005	0.001	179-20-20.
36	0	HQ823	2681673.113	232865.934	0.004	0.003	162-55-12.
37	0	HQ824	2681616.922	232876.663	0.004	0.003	159-32-58.
38	0	HQ825	2681680.631	232920.530	0.004	0.003	166-24-54.
39	0	HQ826	2681628.437	232935.338	0.004	0.003	161-56-21.
40	0	HQ827	2681570.065	232941.889	0.004	0.003	159-41-11.
41	0	HQ828	2681517.777	232963.650	0.005	0.003	151- 1-24.
42	0	HQ829	2681464.423	232980.730	0.005	0.003	134-59-53.
43	0	HQ832	2681846.992	232832.072	0.005	0.003	1-31-18.
44	0	HQ830	2681794.426	232839.500	0.003	0.003	168- 4-38.
45	0	HQ831	2681808.374	232904.209	0.005	0.002	85-51-34.
46	0	HQ835	2681810.705	232953.583	0.001	0.001	179-36-16.
47	0	HQ833	2681663.331	232812.169	0.004	0.003	161-23-12.
48	0	HQ834	2681603.476	232826.746	0.004	0.003	162- 8- 7.
49	0	HQ836	2681347.268	232967.475	0.004	0.002	146-53-26.

NET-LST. CTL

GJ221	2681866.190	232797.034	0.000
GJ222	2681638.799	232574.489	0.000
GJ223	2681783.832	232957.250	0.000
GJ224	2681447.031	233054.181	0.000
HJ326	2681912.444	232939.913	0.000
HJ330	2681850.574	232959.799	0.000
HJ349	2681699.341	232987.217	0.000
HJ355	2681423.502	233084.321	0.000
HJ354	2681454.542	233049.009	0.000
HJ331	2681816.385	232963.333	0.000
HJ329	2681875.377	232944.705	0.000
HJ327	2681888.042	232813.191	0.000
HJ377	2681310.039	232997.862	0.000
HJ369	2681343.642	233061.971	0.000



HJ370	2681325.984	233038.419	0.000
HJ371	2681302.507	233004.403	0.000
HJ356	2681369.444	233109.783	0.000
BQ801	2681892.850	232824.359	0.000
BQ802	2681904.760	232885.152	0.000
BQ812	2681443.966	233000.228	0.000
BQ813	2681393.446	232964.823	0.000
BQ814	2681457.750	232928.334	0.000
BQ815	2681503.768	232919.580	0.000
BQ816	2681553.648	232895.777	0.000
BQ817	2681537.245	232821.912	0.000
BQ806	2681748.275	232962.259	0.000
BQ808	2681646.971	233002.408	0.000
BQ809	2681583.058	233009.809	0.000
BQ810	2681532.067	233035.087	0.000
BQ811	2681485.807	233048.439	0.000
BQ818	2681734.227	232912.701	0.000
BQ819	2681719.457	232858.495	0.000
BQ820	2681710.156	232799.832	0.000
BQ821	2681793.188	232814.684	0.000
BQ822	2681831.069	232797.096	0.000
HQ823	2681673.113	232865.934	0.000
HQ824	2681616.922	232876.663	0.000
HQ825	2681680.631	232920.530	0.000
HQ826	2681628.437	232935.338	0.000
HQ827	2681570.065	232941.889	0.000
HQ828	2681517.777	232963.650	0.000
HQ829	2681464.423	232980.730	0.000
HQ832	2681846.992	232832.072	0.000
HQ830	2681794.426	232839.500	0.000
HQ831	2681808.374	232904.209	0.000
HQ835	2681810.705	232953.583	0.000
HQ833	2681663.331	232812.169	0.000
HQ834	2681603.476	232826.746	0.000
HQ836	2681347.268	232967.475	0.000