



\*\*\* メンセキ ケイサン (ハ<sup>ノ</sup>イオウキヨホウ) \*\*\*

チクメイ ... ミヤコタ<sup>ノ</sup>チク トチクカクセイリシ<sup>ノ</sup>キ<sup>ノ</sup>ヨウ

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2 A	カ <sup>ノ</sup> フ <sup>ノ</sup> メンセキ
157BL-55	157BL- 1 <sup>✓</sup>		276 38 56						-131774.118	-69105.347			
157BL- 1	157BL- 2 <sup>✓</sup>	135 0 1	231 38 57 <sup>✓</sup>	3.475 <sup>✓</sup>	-2.156	0	-2.725	0	-131776.274	-69108.072	-21.941	47.304796	
157BL- 2	157BL- 3 <sup>✓</sup>	133 54 37	185 33 34 <sup>✓</sup>	324.753 <sup>✓</sup>	-323.225	0	-31.462	1	-132099.499	-69139.533	-56.127	18141.649575	
157BL- 3	157BL- 9 <sup>✓</sup>	87 34 22	93 7 56 <sup>✓</sup>	108.930 <sup>✓</sup>	-5.952	0	108.767	0	-132105.451	-69030.766	21.179	-126.057408	
157BL- 9	157BL-10 <sup>✓</sup>	90 24 3	3 31 59 <sup>✓</sup>	249.780 <sup>✓</sup>	249.305	0	15.393	-1	-131856.146	-69015.374	145.338	36233.490090	
157BL-10	157BL-11 <sup>✓</sup>	180 12 28	3 44 27 <sup>✓</sup>	4.001 <sup>✓</sup>	3.992	0	0.261	0	-131852.154	-69015.113	160.991	642.676072	
157BL-11	157BL-12 <sup>✓</sup>	181 24 1	5 8 28 <sup>✓</sup>	3.995 <sup>✓</sup>	3.979	0	0.358	0	-131848.175	-69014.755	161.610	643.046190	
157BL-12	157BL-13 <sup>✓</sup>	181 52 51	7 1 19 <sup>✓</sup>	4.000 <sup>✓</sup>	3.970	0	0.489	0	-131844.205	-69014.266	162.457	644.954290	
157BL-13	157BL-14 <sup>✓</sup>	182 26 8	9 27 27 <sup>✓</sup>	3.998 <sup>✓</sup>	3.944	0	0.657	0	-131840.261	-69013.609	163.603	645.250232	
157BL-14	157BL-15 <sup>✓</sup>	182 11 23	11 38 50 <sup>✓</sup>	3.997 <sup>✓</sup>	3.915	0	0.807	0	-131836.346	-69012.802	165.067	646.237305	
157BL-15	157BL-16 <sup>✓</sup>	181 48 6	13 26 56 <sup>✓</sup>	3.999 <sup>✓</sup>	3.889	0	0.930	0	-131832.457	-69011.872	166.804	648.700756	
157BL-16	157BL-17 <sup>✓</sup>	182 24 29	15 51 25 <sup>✓</sup>	4.000 <sup>✓</sup>	3.848	0	1.093	0	-131828.609	-69010.779	168.827	649.646296	
157BL-17	157BL-18 <sup>✓</sup>	182 2 52	17 54 17 <sup>✓</sup>	3.998 <sup>✓</sup>	3.804	0	1.229	0	-131824.805	-69009.550	171.149	651.050796	
157BL-18	157BL-19 <sup>✓</sup>	182 14 47	20 9 4 <sup>✓</sup>	3.991 <sup>✓</sup>	3.747	0	1.375	0	-131821.058	-69008.175	173.753	651.052491	
157BL-19	157BL-20 <sup>✓</sup>	182 6 19	22 15 23 <sup>✓</sup>	4.000 <sup>✓</sup>	3.702	0	1.515	0	-131817.356	-69006.660	176.643	653.932386	
157BL-20	157BL-21 <sup>✓</sup>	181 57 28	24 12 51 <sup>✓</sup>	4.001 <sup>✓</sup>	3.649	0	1.641	0	-131813.707	-69005.019	179.799	656.086551	
157BL-21	157BL-22 <sup>✓</sup>	182 11 26	26 24 17 <sup>✓</sup>	3.996 <sup>✓</sup>	3.579	0	1.777	0	-131810.128	-69003.242	183.217	655.733643	
157BL-22	157BL-23 <sup>✓</sup>	182 12 21	28 36 38 <sup>✓</sup>	3.997 <sup>✓</sup>	3.509	0	1.914	0	-131806.619	-69001.328	186.908	655.860172	
157BL-23	157BL-24 <sup>✓</sup>	182 17 57	30 54 35 <sup>✓</sup>	4.002 <sup>✓</sup>	3.434	0	2.056	0	-131803.185	-68999.272	190.878	655.475052	
157BL-24	157BL-25 <sup>✓</sup>	182 0 2	32 54 37 <sup>✓</sup>	3.994 <sup>✓</sup>	3.353	0	2.170	0	-131799.832	-68997.102	195.104	654.183712	
157BL-25	157BL-26 <sup>✓</sup>	182 0 41	34 55 18 <sup>✓</sup>	4.000 <sup>✓</sup>	3.280	0	2.290	0	-131796.552	-68994.812	199.564	654.569920	
157BL-26	157BL-27 <sup>✓</sup>	182 4 28	36 59 46 <sup>✓</sup>	3.997 <sup>✓</sup>	3.192	0	2.405	0	-131793.360	-68992.407	204.259	651.994728	
157BL-27	157BL-28 <sup>✓</sup>	182 13 55	39 13 41 <sup>✓</sup>	4.001 <sup>✓</sup>	3.099	0	2.530	0	-131790.261	-68989.877	209.194	648.292206	
157BL-28	157BL-29 <sup>✓</sup>	182 16 58	41 30 39 <sup>✓</sup>	3.997 <sup>✓</sup>	2.993	0	2.649	0	-131787.268	-68987.228	214.373	641.618389	

\*\*\* ムンセキ ケイザン (ハノイオウキヨホウ) \*\*\*

チクメイ . . . ミヤコタチク トチクカケイリシキヨウ

セリ NO... 157BL

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カーブメントセキ
157BL-29	157BL-30	181 56 18	43 26 57	3.997	2.902	0	2.749	0	-131784.366	-68984.479	219.771	637.775442	
157BL-30	157BL-31	181 56 45	45 23 42	3.999	2.808	0	2.847	0	-131781.558	-68981.632	225.367	632.830536	
157BL-31	157BL-32	182 37 42	48 1 24	3.995	2.672	0	2.970	0	-131778.886	-68978.662	231.184	617.723648	
157BL-32	157BL-33	181 55 11	49 56 35	3.997	2.572	0	3.059	0	-131776.314	-68975.603	237.213	610.111836	
157BL-33	157BL-34	182 8 30	52 5 5	4.002	2.459	0	3.157	0	-131773.855	-68972.446	243.429	598.591911	
157BL-34	157BL-35	181 57 19	54 2 24	3.501	2.056	0	2.834	0	-131771.799	-68969.612	249.420	512.807520	
157BL-35	157BL-36	181 38 4	55 40 28	3.501	1.974	0	2.891	0	-131769.825	-68966.721	255.145	503.656230	
157BL-36	157BL-37	180 26 11	56 6 39	21.719	12.110	0	18.029	0	-131757.715	-68948.692	276.065	3343.147150	
157BL-37	157BL-38	135 7 53	11 14 32	9.966	9.775	0	1.943	0	-131747.940	-68946.749	296.037	2893.761675	
157BL-38	157BL-39	134 47 53	326 2 25	92.628	76.828	1	-51.743	0	-131671.111	-68998.492	246.237	18918.142473	
157BL-39	157BL-40	90 16 22	236 18 47	63.531	-35.238	0	-52.863	0	-131706.349	-69051.355	141.631	-4990.793178	
157BL-40	157BL-41	143 55 48	200 14 35	10.222	-9.591	0	-3.537	0	-131715.940	-69054.892	85.231	-817.450521	
157BL-41	157BL-42	183 0 21	203 14 56	1.500	-1.378	0	-0.592	0	-131717.318	-69055.484	81.102	-111.758556	
157BL-42	157BL-43	184 52 23	208 7 19	1.498	-1.321	0	-0.706	0	-131718.639	-69056.190	79.804	-105.421084	
157BL-43	157BL-44	186 15 24	214 22 43	1.500	-1.238	0	-0.847	0	-131719.877	-69057.037	78.251	-96.874738	
157BL-44	157BL-45	186 12 52	220 35 35	1.500	-1.139	0	-0.976	0	-131721.016	-69058.013	76.428	-87.051492	
157BL-45	157BL-46	185 52 3	226 27 38	1.498	-1.032	0	-1.086	0	-131722.048	-69059.099	74.366	-76.745712	
157BL-46	157BL-47	186 23 26	232 51 4	1.931	-1.166	0	-1.539	0	-131723.214	-69060.638	71.741	-83.650006	
157BL-47	157BL-48	183 23 42	236 14 46	22.443	-12.470	0	-18.660	0	-131735.684	-69079.298	51.542	-642.728740	
157BL-48	157BL-49	177 28 46	233 43 32	1.501	-0.888	0	-1.210	0	-131736.572	-69080.508	31.672	-28.124736	
157BL-49	157BL-50	172 3 31	225 47 3	1.498	-1.045	0	-1.074	0	-131737.617	-69081.582	29.388	-30.710460	
157BL-50	157BL-51	170 20 10	216 7 13	1.498	-1.210	0	-0.883	0	-131738.827	-69082.465	27.431	-33.191510	
157BL-51	157BL-52	170 55 26	207 2 39	1.498	-1.334	0	-0.681	0	-131740.161	-69083.146	25.867	-34.506578	
157BL-52	157BL-53	170 45 0	197 47 39	1.499	-1.427	0	-0.458	0	-131741.588	-69083.604	24.728	-35.286856	

\*\*\* 測点データ (ハイオウキヨボウ) \*\*\*

チクメイ . . . . ミヤコタチク トチクカクセイリシキヨウ

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カーブ測点
157BL-53	157BL-54 ✓	170 15 33 188 3 12 ✓		1.585 ✓	-1.569	0	-0.222	0	-131743.157	-69083.826	24.048	-37.731312	
157BL-54	157BL-55 ✓	175 55 5 183 58 17 ✓		33.281 ✓	-33.201	0	-2.305	0	-131776.358	-69086.131	21.521	-714.518721	
157BL-55	157BL- 1 ✓	272 40 39 276 38 56 ✓		19.346 ✓	2.240	0	-19.216	0	-131774.118	-69105.347	0.000	0.000000	
TOTAL..	ソツカクズ= 50	8640 0 0		1081.536	-0.001	1 ✓	0.000	0 ✓			ハイメ測点=	87988.752461	
											1/2=	43994.37	+0.00
											測点=	43994.37 ✓	

\*\*\* メンセキ ケイザン (ハ イオウキヨホウ) \*\*\*

チクメイ ... ミヤコタチク トチクカクセイリヨキヨウ

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カ-フメセキ
157BL- 9	157BL- 3		273 7 56						-132099.499	-69139.533			
157BL- 3	157BL- 4	92 25 17	185 33 13	5.125	-5.101	0	-0.496	0	-132104.600	-69140.029	-109.263	557.350563	
157BL- 4	157BL- 5	186 40 37	192 13 50	69.135	-67.566	0	-14.646	0	-132172.166	-69154.675	-124.405	8405.548230	
157BL- 5	157BL- 6	130 59 36	143 13 26	5.013	-4.015	0	3.001	0	-132176.181	-69151.674	-136.050	546.240750	
157BL- 6	157BL- 7	129 53 32	93 6 58	109.274	-5.940	0	109.112	0	-132182.121	-69042.562	-23.937	142.185780	
157BL- 7	157BL- 8	135 13 29	48 20 27	10.023	6.662	0	7.488	0	-132175.459	-69035.074	92.663	617.320906	
157BL- 8	157BL- 9	135 10 50	3 31 17	70.140	70.008	0	4.308	0	-132105.451	-69030.766	104.459	7312.965672	
157BL- 9	157BL- 3	89 36 39	273 7 56	108.930	5.952	0	-108.767	0	-132099.499	-69139.533	0.000	0.000000	
TOTAL..	ソツカクスク= 7	900 0 0		377.640	0.000	0	0.000	0			ハイメセキ=	17581.611901	
											1/2=	8790.80	+0.00
											メセキ=	8790.80	

\*\*\* メンセキ ケイザン (ハ<sup>イ</sup>イオウキヨホウ) \*\*\*

チクメイ ... ミヤコタ<sup>チク</sup> トチクカクセイリシ<sup>キ</sup>ヨウ

セイリ NO... 157BL(1)✓

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カーブ <sup>メンセキ</sup>
157BL-38	157BL-39✓		326 2 25						-131671.111	-68998.492			
157BL-39	157BL-40✓	90 16 22	236 18 47✓	63.531✓	-35.238	0	-52.863	0	-131706.349	-69051.355	-104.606	3686.106228	
157BL-40	157BL-41✓	143 55 48	200 14 35✓	10.222✓	-9.591	0	-3.537	0	-131715.940	-69054.892	-161.006	1544.208546	
157BL-41	157BL-42✓	183 0 21	203 14 56✓	1.500✓	-1.378	0	-0.592	0	-131717.318	-69055.484	-165.135	227.556030	
157BL-42	157BL-43✓	184 52 23	208 7 19✓	1.498✓	-1.321	0	-0.706	0	-131718.639	-69056.190	-166.433	219.857993	
157BL-43	157BL-44✓	186 15 24	214 22 43✓	1.500✓	-1.238	0	-0.847	0	-131719.877	-69057.037	-167.986	207.966668	
157BL-44	157BL-45✓	186 12 52	220 35 35✓	1.500✓	-1.139	0	-0.976	0	-131721.016	-69058.013	-169.809	193.412451	
157BL-45	157BL-46✓	185 52 3	226 27 38✓	1.498✓	-1.032	0	-1.086	0	-131722.048	-69059.099	-171.871	177.370872	
157BL-46	157BL-47✓	186 23 26	232 51 4✓	1.931✓	-1.166	0	-1.539	0	-131723.214	-69060.638	-174.496	203.462336	
157BL-47	157BL-48✓	183 23 42	236 14 46✓	22.443✓	-12.470	0	-18.660	0	-131735.684	-69079.298	-194.695	2427.846650	
157BL-48	157BL-49✓	177 28 46	233 43 32✓	1.501✓	-0.888	0	-1.210	0	-131736.572	-69080.508	-214.565	190.533720	
157BL-49	157BL-50✓	172 3 31	225 47 3✓	1.498✓	-1.045	0	-1.074	0	-131737.617	-69081.582	-216.849	226.607205	
157BL-50	157BL-51✓	170 20 10	216 7 13✓	1.498✓	-1.210	0	-0.883	0	-131738.827	-69082.465	-218.806	264.755260	
157BL-51	157BL-52✓	170 55 26	207 2 39✓	1.498✓	-1.334	0	-0.681	0	-131740.161	-69083.146	-220.370	293.973580	
157BL-52	157BL-53✓	170 45 0	197 47 39✓	1.499✓	-1.427	0	-0.458	0	-131741.588	-69083.604	-221.509	316.093343	
157BL-53	157BL-54✓	170 15 33	188 3 12✓	1.585✓	-1.569	0	-0.222	0	-131743.157	-69083.826	-222.189	348.614541	
157BL-54	157BL-101✓	175 55 5	183 58 17✓	29.345✓	-29.275	0	-2.032	0	-131772.432	-69085.858	-224.443	6570.568825	
157BL-101	157BL-100✓	109 43 15	113 41 32✓	90.913✓	-36.531	0	83.251	0	-131808.963	-69002.607	-143.224	5232.115944	
157BL-100	157BL-23✓	94 55 6	28 36 38✓	2.670✓	2.344	0	1.279	0	-131806.619	-69001.328	-58.694	-137.578736	
157BL-23	157BL-24✓	182 17 57	30 54 35✓	4.002✓	3.434	0	2.056	0	-131803.185	-68999.272	-55.359	-190.102806	
157BL-24	157BL-25✓	182 0 2	32 54 37✓	3.994✓	3.353	0	2.170	0	-131799.832	-68997.102	-51.133	-171.448949	
157BL-25	157BL-26✓	182 0 41	34 55 18✓	4.000✓	3.280	0	2.290	0	-131796.552	-68994.812	-46.673	-153.087440	
157BL-26	157BL-27✓	182 4 28	36 59 46✓	3.997✓	3.192	0	2.405	0	-131793.360	-68992.407	-41.978	-133.993776	
157BL-27	157BL-28✓	182 13 55	39 13 41✓	4.001✓	3.099	0	2.530	0	-131790.261	-68989.877	-37.043	-114.796257	

\*\*\* メンセキ ケイザン (ハイイウキヨボウ) \*\*\*

チクメイ ... ミヤコタチク トチクカクセイリシキヨウ

セイリ NO... 157BL(1)ノ

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カ-フメンセキ
157BL-28	157BL-29✓	182 16 58	41 30 39✓	3.997✓	2.993	0	2.649	0	-131787.268	-68987.228	-31.864	-95.368952	
157BL-29	157BL-30✓	181 56 18	43 26 57✓	3.997✓	2.902	0	2.749	0	-131784.366	-68984.479	-26.466	-76.804332	
157BL-30	157BL-31✓	181 56 45	45 23 42✓	3.999✓	2.808	0	2.847	0	-131781.558	-68981.632	-20.870	-58.602960	
157BL-31	157BL-32✓	182 37 42	48 1 24✓	3.995✓	2.672	0	2.970	0	-131778.886	-68978.662	-15.053	-40.221616	
157BL-32	157BL-33✓	181 55 11	49 56 35✓	3.997✓	2.572	0	3.059	0	-131776.314	-68975.603	-9.024	-23.209728	
157BL-33	157BL-34✓	182 8 30	52 5 5✓	4.002✓	2.459	0	3.157	0	-131773.855	-68972.446	-2.808	-6.904872	
157BL-34	157BL-35✓	181 57 19	54 2 24✓	3.501✓	2.056	0	2.834	0	-131771.799	-68969.612	3.183	6.544248	
157BL-35	157BL-36✓	181 38 4	55 40 28✓	3.501✓	1.974	0	2.891	0	-131769.825	-68966.721	8.908	17.584392	
157BL-36	157BL-37✓	180 26 11	56 6 39✓	21.719✓	12.110	0	18.029	0	-131757.715	-68948.692	29.828	361.217080	
157BL-37	157BL-38✓	135 7 53	11 14 32✓	9.966✓	9.775	0	1.943	0	-131747.940	-68946.749	49.800	486.795000	
157BL-38	157BL-39✓	134 47 53	326 2 25✓	92.628✓	76.828	1	-51.743	0	-131671.111	-68998.492	0.000	0.000000	
TOTAL..	ソツカクス= 34	5760	0 0	412.926	-0.001	1✓	0.000	0✓			ハイメセキ=	22001.070488	
											1/2=	11000.53	+0.00
											メセキ=	11000.53✓	

\*\*\* メンセキ ケイサン (ハイオウキヨホウ) \*\*\*

チクメイ ... ミヤコタチク トチクカクセイリシキヨウ

セリ NO... 157BL(2)

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	コ-フメンセキ
157BL-100	157BL-101✓		293 41 32						-131772.432	-69085.858			
157BL-101	157BL-55✓	70 16 45	183 58 17✓	3.935✓	-3.926	0	-0.273	0	-131776.358	-69086.131	-83.524	327.915224	
157BL-55	157BL-1✓	272 40 39	276 38 56✓	19.346✓	2.240	0	-19.216	0	-131774.118	-69105.347	-103.013	-230.749120	
157BL-1	157BL-2✓	135 0 1	231 38 57✓	3.475✓	-2.156	0	-2.725	0	-131776.274	-69108.072	-124.954	269.400824	
157BL-2	157BL-91✓	133 54 37	185 33 34✓	86.057✓	-85.652	0	-8.337	0	-131861.926	-69116.409	-136.016	11650.042432	
157BL-91	157BL-99✓	87 58 25	93 31 59✓	100.487✓	-6.192	0	100.296	0	-131868.118	-69016.113	-44.057	272.800944	
157BL-99	157BL-10✓	90 0 0	3 31 59✓	11.995✓	11.972	0	0.739	0	-131856.146	-69015.374	56.978	682.140616	
157BL-10	157BL-11✓	180 12 28	3 44 27✓	4.001✓	3.992	0	0.261	0	-131852.154	-69015.113	57.978	231.448176	
157BL-11	157BL-12✓	181 24 1	5 8 28✓	3.995✓	3.979	0	0.358	0	-131848.175	-69014.755	58.597	233.157463	
157BL-12	157BL-13✓	181 52 51	7 1 19✓	4.000✓	3.970	0	0.489	0	-131844.205	-69014.266	59.444	235.992680	
157BL-13	157BL-14✓	182 26 8	9 27 27✓	3.998✓	3.944	0	0.657	0	-131840.261	-69013.609	60.590	238.966960	
157BL-14	157BL-15✓	182 11 23	11 38 50✓	3.997✓	3.915	0	0.807	0	-131836.346	-69012.802	62.054	242.941410	
157BL-15	157BL-16✓	181 48 6	13 26 56✓	3.999✓	3.889	0	0.930	0	-131832.457	-69011.872	63.791	248.083199	
157BL-16	157BL-17✓	182 24 29	15 51 25✓	4.000✓	3.848	0	1.093	0	-131828.609	-69010.779	65.814	253.252272	
157BL-17	157BL-18✓	182 2 52	17 54 17✓	3.998✓	3.804	0	1.229	0	-131824.805	-69009.550	68.136	259.189344	
157BL-18	157BL-19✓	182 14 47	20 9 4✓	3.991✓	3.747	0	1.375	0	-131821.058	-69008.175	70.740	265.062780	
157BL-19	157BL-20✓	182 6 19	22 15 23✓	4.000✓	3.702	0	1.515	0	-131817.356	-69006.660	73.630	272.578260	
157BL-20	157BL-21✓	181 57 28	24 12 51✓	4.001✓	3.649	0	1.641	0	-131813.707	-69005.019	76.786	280.192114	
157BL-21	157BL-22✓	182 11 26	26 24 17✓	3.996✓	3.579	0	1.777	0	-131810.128	-69003.242	80.204	287.050116	
157BL-22	157BL-100✓	182 12 21	28 36 38✓	1.327✓	1.165	0	0.635	0	-131808.963	-69002.607	82.616	96.247640	
157BL-100	157BL-101✓	85 4 54	293 41 32✓	90.913✓	36.531	0	-83.251	0	-131772.432	-69085.858	0.000	0.000000	
TOTAL..	ソツカクス= 20	3240	0 0		365.511	0.000	0.000	0.			ハイメンセキ=	16115.713334	
											1/2=	8057.85	+0.00
											メンセキ=	8057.85✓	



\*\*\* メンセキ ケイサン (ハライウキヨホウ) \*\*\*

チクメイ ... ミヤコタチク トチクカクセイリシキキヨウ

セリ NO... 157BL(3) ✓

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カ-フ"メンセキ
157BL-99	157BL-91 ✓		273 31 59						-131861.926	-69116.409			
157BL-91	157BL-92 ✓	92 1 35	185 33 34 ✓	11.817 ✓	-11.761	0	-1.145	0	-131873.687	-69117.554	-101.441	1193.047601	
157BL-92	157BL-102 ✓	90 19 38	95 53 12 ✓	21.636 ✓	-2.219	0	21.522	0	-131875.906	-69096.032	-81.064	179.881016	
157BL-102	157BL-103 ✓	269 57 7	185 50 19 ✓	16.011 ✓	-15.928	1	-1.629	0	-131891.833	-69097.661	-61.171	974.270517	
157BL-103	157BL-98 ✓	87 41 40	93 31 59 ✓	79.932 ✓	-4.926	1	79.780	0	-131896.758	-69017.881	16.980	-83.626500	
157BL-98	157BL-99 ✓	90 0 0	3 31 59 ✓	28.695 ✓	28.640	0	1.768	0	-131868.118	-69016.113	98.528	2821.841920	
157BL-99	157BL-91 ✓	90 0 0	273 31 59 ✓	100.487 ✓	6.192	0	-100.296	0	-131861.926	-69116.409	0.000	0.000000	
TOTAL..	ソツカクズ= 6	720 0 0		258.578	-0.002	2 ✓	0.000	0 ✓			ハライメンセキ=	5085.414554	
											1/2=	2542.70	+0.00
											メンセキ=	2542.70 ✓	

セリ NO... 157BL(4)

157BL-98	157BL-103 ✓		273 31 59						-131891.833	-69097.661			
157BL-103	157BL-104 ✓	92 18 20	185 50 19 ✓	5.488 ✓	-5.460	0	-0.558	0	-131897.293	-69098.219	-80.338	438.645480	
157BL-104	157BL-93 ✓	270 0 36	275 50 55 ✓	21.531 ✓	2.194	0	-21.419	0	-131895.099	-69119.638	-102.315	-224.479110	
157BL-93	157BL-94 ✓	89 42 39	185 33 34 ✓	113.588 ✓	-113.054	1	-11.004	0	-132008.152	-69130.642	-134.738	15232.535114	
157BL-94	157BL-97 ✓	87 58 25	93 31 59 ✓	105.682 ✓	-6.513	0	105.481	0	-132014.665	-69025.161	-40.261	262.219893	
157BL-97	157BL-98 ✓	90 0 0	3 31 59 ✓	118.131 ✓	117.906	1	7.280	0	-131896.758	-69017.881	72.500	8548.257500	
157BL-98	157BL-103 ✓	90 0 0	273 31 59 ✓	79.932 ✓	4.926	-1	-79.780	0	-131891.833	-69097.661	0.000	0.000000	
TOTAL..	ソツカクズ= 6	720 0 0		444.352	-0.001	1 ✓	0.000	0 ✓			ハライメンセキ=	24257.178877	
											1/2=	12128.58	+0.00
											メンセキ=	12128.58 ✓	

\*\*\* メンセキ ケイザン (ハ"イオウキヨホウ) \*\*\*

チクメイ ... ミヤコタ"チク トチクカクセイリシ"キ"ヨウ

											レイ NO... 157BL(5)		
NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カ-フ"メンセキ
157BL-108	157BL-94		273 31 59						-132008.152	-69130.642			
157BL-94	157BL-95	92 1 35	185 33 34	71.301	-70.966	0	-6.908	0	-132079.118	-69137.550	-100.312	7118.741392	
157BL-95	157BL-105	90 19 18	95 52 52	19.626	-2.011	0	19.523	0	-132081.129	-69118.027	-87.697	176.358667	
157BL-105	157BL-106	270 1 12	185 54 4	19.541	-19.437	0	-2.009	0	-132100.566	-69120.036	-70.183	1364.146971	
157BL-106	157BL- 9	87 13 52	93 7 56	89.404	-4.885	0	89.270	0	-132105.451	-69030.766	17.078	-83.426030	
157BL- 9	157BL-96	90 24 3	3 31 59	86.859	86.694	0	5.353	-1	-132018.757	-69025.414	111.700	9683.719800	
157BL-96	157BL-107	90 0 0	273 31 59	12.100	0.746	0	-12.077	0	-132018.011	-69037.491	104.975	78.311350	
157BL-107	157BL-108	270 0 0	3 31 59	4.100	4.092	0	0.253	0	-132013.919	-69037.238	93.151	381.173892	
157BL-108	157BL-94	90 0 0	273 31 59	93.582	5.767	0	-93.404	0	-132008.152	-69130.642	0.000	0.000000	
TOTAL..	ソツカクスウ= 8	1080	0 0	396.513	0.000	0	0.001	-1			ハ"イメンセキ=	18719.026042	
											1/2=	9359.51	+0.00
											メンセキ=	9359.51	

											レイ NO... 157BL(6)		
157BL-97	157BL-108		273 31 59						-132013.919	-69037.238			
157BL-108	157BL-107	90 0 0	183 31 59	4.100	-4.092	0	-0.253	0	-132018.011	-69037.491	-12.330	50.454360	
157BL-107	157BL-96	90 0 0	93 31 59	12.100	-0.746	0	12.077	0	-132018.757	-69025.414	-0.506	0.377476	
157BL-96	157BL-97	90 0 0	3 31 59	4.100	4.092	0	0.253	0	-132014.665	-69025.161	11.824	48.383808	
157BL-97	157BL-108	90 0 0	273 31 59	12.100	0.746	0	-12.077	0	-132013.919	-69037.238	0.000	0.000000	
TOTAL..	ソツカクスウ= 4	360	0 0	32.400	0.000	0	0.000	0			ハ"イメンセキ=	99.215644	
											1/2=	49.60	+0.00
											メンセキ=	49.60	

\*\*\* 観測データ (ハイオウキヨウ) \*\*\*

チクメイ ... ミヤコタチク トチカカレイリシキヨウ

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	観測値
157BL-105	157BL-95		275 52 52						-132079.118	-69137.550			
157BL-95	157BL-3	89 40 42	185 33 34	20.477	-20.381	0	-1.984	1	-132099.499	-69139.533	-21.506	438.313786	
157BL-3	157BL-106	87 34 22	93 7 56	19.526	-1.067	0	19.497	0	-132100.566	-69120.036	-3.992	4.259464	
157BL-106	157BL-105	92 46 8	5 54 4	19.541	19.437	0	2.009	0	-132081.129	-69118.027	17.514	340.419618	
157BL-105	157BL-95	89 58 48	275 52 52	19.626	2.011	0	-19.523	0	-132079.118	-69137.550	0.000	0.000000	
TOTAL..	ソツカクズ= 4	360 0 0		79.170	0.000	0	-0.001	1			ハイオウキヨウ=	782.992868	
											1/2=	391.49	+0.00
											観測値=	391.49	

セリ NO... 157BL(8)

157BL-102	157BL-92		275 53 12						-131873.687	-69117.554			
157BL-92	157BL-93	89 40 22	185 33 34	21.513	-21.412	0	-2.084	0	-131895.099	-69119.638	-23.606	505.451672	
157BL-93	157BL-104	90 17 21	95 50 55	21.531	-2.194	0	21.419	0	-131897.293	-69098.219	-4.271	9.370574	
157BL-104	157BL-102	89 59 24	5 50 19	21.499	21.387	0	2.187	0	-131875.906	-69096.032	19.335	413.517645	
157BL-102	157BL-92	90 2 53	275 53 12	21.636	2.219	0	-21.522	0	-131873.687	-69117.554	0.000	0.000000	
TOTAL..	ソツカクズ= 4	360 0 0		86.179	0.000	0	0.000	0			ハイオウキヨウ=	928.339891	
											1/2=	464.16	+0.00
											観測値=	464.16	

\*\*\* ケツコウ トラハース \*\*\*

チクメイ ... ミヤコタチク トチクカクセイリシキキョウ

NO.	NO.	ANGLE	*	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	N.O.
	157BL- 2									-131776.274	-69108.072	157BL- 2
157BL- 2	157BL-91			185 33 34	86.057	-85.652	0	-8.337	0	-131861.926	-69116.409	157BL-91
157BL-91	157BL-92	180 0 0		185 33 34	11.817	-11.761	0	-1.145	0	-131873.687	-69117.554	157BL-92
157BL-92	157BL-93	180 0 0		185 33 34	21.513	-21.412	0	-2.084	0	-131895.099	-69119.638	157BL-93
157BL-93	157BL-94	180 0 0		185 33 34	113.588	-113.054	1	-11.004	0	-132008.152	-69130.642	157BL-94
157BL-94	157BL-95	180 0 0		185 33 34	71.301	-70.966	0	-6.908	0	-132079.118	-69137.550	157BL-95
157BL-95	157BL- 3	180 0 0		185 33 34	20.477	-20.381	0	-1.984	1	-132099.499	-69139.533	157BL- 3
	TOTAL..	900 0 0			324.753	-323.226	1	-31.462	1			
	157BL- 3									-132099.499	-69139.533	157BL- 3
157BL- 3	157BL-106			93 7 56	19.526	-1.067	0	19.497	0	-132100.566	-69120.036	157BL-106
157BL-106	157BL- 9	180 0 0		93 7 56	89.404	-4.885	0	89.270	0	-132105.451	-69030.766	157BL- 9
	TOTAL..	180 0 0			108.930	-5.952	0	108.767	0			
	157BL- 9									-132105.451	-69030.766	157BL- 9
157BL- 9	157BL-96			3 31 59	86.859	86.694	0	5.353	-1	-132018.757	-69025.414	157BL-96
157BL-96	157BL-97	180 0 0		3 31 59	4.100	4.092	0	0.253	0	-132014.665	-69025.161	157BL-97
157BL-97	157BL-98	180 0 0		3 31 59	118.131	117.906	1	7.280	0	-131896.758	-69017.881	157BL-98
157BL-98	157BL-99	180 0 0		3 31 59	28.695	28.640	0	1.768	0	-131868.118	-69016.113	157BL-99
157BL-99	157BL-10	180 0 0		3 31 59	11.995	11.972	0	0.739	0	-131856.146	-69015.374	157BL-10
	TOTAL..	720 0 0			249.780	249.304	1	15.393	-1			
	157BL-22									-131810.128	-69003.242	157BL-22
157BL-22	157BL-100			28 36 38	1.327	1.165	0	0.635	0	-131808.963	-69002.607	157BL-100

\*\*\* ケツコウ トラハース \*\*\*

チクメイ ... ミヤコタチク トチクカクセイリシキヨウ

NO.	NO.	ANGLE	*	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	NO.
157BL-100	157BL-23	180 0 0		28 36 38	2.670	2.344	0	1.279	0	-131806.619	-69001.328	157BL-23
	TOTAL..	180 0 0			3.997	3.509	0	1.914	0			
	157BL-54									-131743.157	-69083.826	157BL-54
157BL-54	157BL-101			183 58 17	29.346	-29.276	1	-2.032	0	-131772.432	-69085.858	157BL-101
157BL-101	157BL-55	180 0 0		183 58 17	3.935	-3.926	0	-0.273	0	-131776.358	-69086.131	157BL-55
	TOTAL..	180 0 0			33.281	-33.202	1	-2.305	0			
	157BL-94									-132008.152	-69130.642	157BL-94
157BL-94	157BL-108			93 31 59	93.582	-5.767	0	93.404	0	-132013.919	-69037.238	157BL-108
157BL-108	157BL-97	180 0 0		93 31 59	12.100	-0.746	0	12.077	0	-132014.665	-69025.161	157BL-97
	TOTAL..	180 0 0			105.682	-6.513	0	105.481	0			
	157BL-102									-131875.906	-69096.032	157BL-102
157BL-102	157BL-103			185 50 19	16.011	-15.928	1	-1.629	0	-131891.833	-69097.661	157BL-103
157BL-103	157BL-104	180 0 0		185 50 19	5.488	-5.460	0	-0.558	0	-131897.293	-69098.219	157BL-104
	TOTAL..	180 0 0			21.499	-21.388	1	-2.187	0			



\*\*\* メンセキ ケイザン (サビヨウホウ) \*\*\*

チクメイ ... ミヤコタチク トチクカクセイリシキキヨウ

セイリ NO... スイロ(2)

NO.	X	Y*	S1	Y	X*	S2	R	F
	-131000.000			-68000.000				
157BL-88 /	-733.745	-44.927	32964.961615	-1099.591	-29.975	32960.240225		
157BL-78 /	-703.770	-95.463	67183.995510	-1054.664	-63.692	67173.659488		
157BL-79 /	-670.053	-82.274	55127.940522	-1004.128	-54.799	55025.210272		
157BL-80 /	-648.971	-130.313	84569.357923	-972.390	-86.764	84368.445960		
157BL-81 /	-583.289	-91.978	53649.755642	-873.815	-66.031	57698.878265		
157BL-85 /	-582.940	100.795	-58757.437300	-880.412	62.390	-54928.904680		
157BL-83 /	-645.679	125.887	-81282.592273	-974.610	83.732	-81606.044520		
157BL-84 /	-666.672	124.409	-82939.996848	-1006.299	82.912	-83434.262688		
157BL-86 /	-728.591	93.292	-67971.711572	-1099.019	67.073	-73714.501387		
157BL-88 /	-733.745	0.572	-419.702140	-1099.591	5.154	-5667.292014		
		TOTAL...	2124.571079		TOTAL...	-2124.571079	TOTAL...	+0.00
		1/2...	1062.2855395		1/2...	-1062.2855395	メンセキ=	1062.28

\*\*\* メンセキ ケイザン (サビヨウホウ) \*\*\*

チクメイ ... ミヤコタチ トチクカクセイリシキヨウ

セイリ NO... スイロ(3)

NO.	X	Y*	S1	Y	X*	S2	R	F
	-131000.000			-69000.000				
157BL-89✓	-737.524	-43.637	32183.334788	-100.010	-29.114	2911.691140		
157BL-77✓	-708.410	-45.346	32123.559860	-56.373	-33.754	1902.814242		
157BL-78✓	-703.770	43.218	-30415.531860	-54.664	25.335	-1384.912440		
157BL-88✓	-733.745	45.346	-33272.400770	-99.591	33.754	-3361.594614		
157BL-89✓	-737.524	0.419	-309.022556	-100.010	3.779	-377.937790		
		TOTAL...	309.939462		TOTAL...	-309.939462	TOTAL...	+0.00
		1/2...	154.9697310		1/2...	-154.9697310	メンセキ=	154.96✓



\*\*\* メンセキ ケイサン (サ`ヒヨウホウ) \*\*\*

チクメイ ... ミヤコタ`チク トチクカクヒイリシ`キ`ヨウ

セリ NO... ス10(4)

NO.	X	Y*	S1	Y	X*	S2	R	F
	-131000.000			-69000.000				
157BL-61✓	-768.297	-13.735	10552.559295	-103.423	1.636	-169.200028		
157BL-62✓	-769.933	-15.652	12050.991316	-89.688	-25.957	2328.031416		
157BL-63✓	-742.340	-2.153	1598.258020	-87.771	-29.695	2606.359845		
157BL-64✓	-740.238	-0.558	413.052804	-87.535	-3.540	309.873900		
157BL-65✓	-738.800	-0.727	537.107600	-87.213	-2.560	223.265280		
157BL-66✓	-737.678	-1.009	744.317102	-86.808	-2.158	187.331664		
157BL-67✓	-736.642	-1.337	984.890354	-86.204	-1.965	169.390860		
157BL-68✓	-735.713	-1.638	1205.097894	-85.471	-1.809	154.617039		
157BL-69✓	-734.833	-3.419	2512.394027	-84.566	-2.973	251.414718		
157BL-70✓	-732.740	-22.243	16298.335820	-82.052	-15.302	1255.559704		
157BL-71✓	-719.531	-20.269	14584.173839	-62.323	-13.606	847.966738		
157BL-72✓	-719.134	-1.607	1155.648338	-61.783	-1.441	89.029303		
157BL-73✓	-718.090	-2.313	1660.942170	-60.716	-2.862	173.769192		
157BL-74✓	-716.272	-1.993	1427.530096	-59.470	-3.266	194.229020		
157BL-75✓	-714.824	-1.233	881.377992	-58.723	-2.802	164.541846		
157BL-76✓	-713.470	-2.350	1676.654500	-58.237	-6.414	373.532118		
157BL-77✓	-708.410	41.773	-29592.410930	-56.373	24.054	-1355.996142		
157BL-89✓	-737.524	47.050	-34700.504200	-100.010	59.887	-5989.298870		
157BL-61✓	-768.297	3.413	-2622.197661	-103.423	30.773	-3182.635979		
		TOTAL...	1368.218376		TOTAL...	-1368.218376	TOTAL...	+0.00
		1/2...	684.1091880		1/2...	-684.1091880	メンセキ=	684.10✓

チクメイ ... ミヤコタ"チク トチクカクセイリシ"キ"ヨウ

セイリ NO... 157BLスイロ(2)✓

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カーブ"ムンセキ
157BL-86	157BL-88 ✓		186 19 58						-131733.745	-69099.591			
157BL-88	157BL-78 ✓	49 57 23	56 17 21 ✓	54.009 ✓	29.975	0	44.927	0	-131703.770	-69054.664	44.355	1329.541125	
157BL-78	157BL-79 ✓	180 0 0	56 17 21 ✓	60.751 ✓	33.717	0	50.536	0	-131670.053	-69004.128	139.818	4714.243506	
157BL-79	157BL-80 ✓	180 7 0	56 24 21 ✓	38.102 ✓	21.082	0	31.738	0	-131648.971	-68972.390	222.092	4682.143544	
157BL-80	157BL-81 ✓	179 55 5	56 19 26 ✓	118.453 ✓	65.682	0	98.575	0	-131583.289	-68873.815	352.405	23146.665210	
157BL-81	157BL-85 ✓	36 42 16	273 1 42 ✓	6.606 ✓	0.349	0	-6.597	0	-131582.940	-68880.412	444.383	155.089667	
157BL-85	157BL-83 ✓	143 18 25	236 20 7 ✓	113.179 ✓	-62.739	0	-94.198	0	-131645.679	-68974.610	343.588	-21556.367532	
157BL-83	157BL-84 ✓	180 8 29	236 28 36 ✓	38.012 ✓	-20.993	0	-31.689	0	-131666.672	-69006.299	217.701	-4570.197093	
157BL-84	157BL-86 ✓	179 47 17	236 15 53 ✓	111.494 ✓	-61.919	0	-92.720	0	-131728.591	-69099.019	93.292	-5776.547348	
157BL-86	157BL-88 ✓	130 4 5	186 19 58 ✓	5.186 ✓	-5.154	0	-0.572	0	-131733.745	-69099.591	0.000	0.000000	
TOTAL..	ソツカクスウ= 9	1260 0 0		545.792	0.000	0 ✓	0.000	0 ✓			ハ"イムンセキ=	2124.571079	
											1/2=	1062.28	+0.00
											ムンセキ=	1062.28 ✓	

セイリ NO... 157BLスイロ(3)✓

157BL-88	157BL-89 ✓		186 19 37						-131737.524	-69100.010			
157BL-89	157BL-77 ✓	49 57 45	56 17 22 ✓	52.458 ✓	29.114	0	43.637	0	-131708.410	-69056.373	43.218	1258.248852	
157BL-77	157BL-78 ✓	143 55 49	20 13 11 ✓	4.945 ✓	4.640	0	1.709	0	-131703.770	-69054.664	88.564	410.936960	
157BL-78	157BL-88 ✓	36 4 10	236 17 21 ✓	54.009 ✓	-29.975	0	-44.927	0	-131733.745	-69099.591	45.346	-1359.246350	
157BL-88	157BL-89 ✓	130 2 16	186 19 37 ✓	3.802 ✓	-3.779	0	-0.419	0	-131737.524	-69100.010	0.000	0.000000	
TOTAL..	ソツカクスウ= 4	360 0 0		115.214	0.000	0 ✓	0.000	0 ✓			ハ"イムンセキ=	309.939462	
											1/2=	154.96	+0.00
											ムンセキ=	154.96 ✓	

チクメイ ... ミヤコタ`チク トチクカクセイリシ`キ`ヨウ

セイリ NO... 157BLスロ(4)✓

NO.	NO.	ANGLE	AZIMUTH	LENGTH	DX	*	DY	*	X	Y	DMD	2A	カーブ`ムンセキ
157BL-89	157BL-61 ✓		186 19 43						-131768.297	-69103.423			
157BL-61	157BL-62 ✓	90 27 50	96 47 33 ✓	13.832 ✓	-1.636	0	13.735	0	-131769.933	-69089.688	10.322	-16.886792	
157BL-62	157BL-63 ✓	87 10 54	3 58 27 ✓	27.660 ✓	27.593	0	1.917	0	-131742.340	-69087.771	25.974	716.700582	
157BL-63	157BL-64 ✓	182 25 55	6 24 22 ✓	2.115 ✓	2.102	0	0.236	0	-131740.238	-69087.535	28.127	59.122954	
157BL-64	157BL-65 ✓	186 12 56	12 37 18 ✓	1.474 ✓	1.438	0	0.322	0	-131738.800	-69087.213	28.685	41.249030	
157BL-65	157BL-66 ✓	187 13 34	19 50 52 ✓	1.193 ✓	1.122	0	0.405	0	-131737.678	-69086.808	29.412	33.000264	
157BL-66	157BL-67 ✓	190 23 42	30 14 34 ✓	1.199 ✓	1.036	0	0.604	0	-131736.642	-69086.204	30.421	31.516156	
157BL-67	157BL-68 ✓	188 1 53	38 16 27 ✓	1.183 ✓	0.929	0	0.733	0	-131735.713	-69085.471	31.758	29.503182	
157BL-68	157BL-69 ✓	187 31 42	45 48 9 ✓	1.262 ✓	0.880	0	0.905	0	-131734.833	-69084.566	33.396	29.388480	
157BL-69	157BL-70 ✓	184 25 8	50 13 17 ✓	3.271 ✓	2.093	0	2.514	0	-131732.740	-69082.052	36.815	77.053795	
157BL-70	157BL-71 ✓	185 58 32	56 11 49 ✓	23.743 ✓	13.209	0	19.729	0	-131719.531	-69062.323	59.058	780.097122	
157BL-71	157BL-72 ✓	177 28 49	53 40 38 ✓	0.670 ✓	0.397	0	0.540	0	-131719.134	-69061.783	79.327	31.492819	
157BL-72	157BL-73 ✓	171 56 49	45 37 27 ✓	1.493 ✓	1.044	0	1.067	0	-131718.090	-69060.716	80.934	84.495096	
157BL-73	157BL-74 ✓	168 48 5	34 25 32 ✓	2.204 ✓	1.818	0	1.246	0	-131716.272	-69059.470	83.247	151.343046	
157BL-74	157BL-75 ✓	172 51 47	27 17 19 ✓	1.629 ✓	1.448	0	0.747	0	-131714.824	-69058.723	85.240	123.427520	
157BL-75	157BL-76 ✓	172 27 23	19 44 42 ✓	1.439 ✓	1.354	0	0.486	0	-131713.470	-69058.237	86.473	117.084442	
157BL-76	157BL-77 ✓	180 28 40	20 13 22 ✓	5.392 ✓	5.060	0	1.864	0	-131708.410	-69056.373	88.823	449.444380	
157BL-77	157BL-89 ✓	36 4 0	236 17 22 ✓	52.458 ✓	-29.114	0	-43.637	0	-131737.524	-69100.010	47.050	-1369.813700	
157BL-89	157BL-61 ✓	130 2 21	186 19 43 ✓	30.962 ✓	-30.773	0	-3.413	0	-131768.297	-69103.423	0.000	0.000000	
TOTAL..	ソツカクスウ= 18	2880 0 0		173.179	0.000	0 ✓	0.000	0 ✓			ハ`イムンセキ=	1368.218376	
											1/2=	684.10	+0.00
											ムンセキ=	684.10 ✓	