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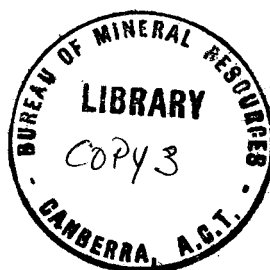
COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

Record No. 1970 / 56

Third - order Regional Magnetic Survey,
Queensland 1967



by

J. van der Linden

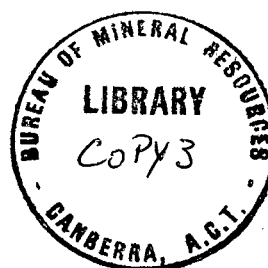
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Third - order Regional Magnetic Survey,
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SUMMARY

A third-order regional magnetic survey, in which observations of declination, horizontal intensity, and total intensity were made at nominal ten-mile (16-kilometre) intervals along all passable roads, was carried out in southern Queensland in 1967. The survey was part of a long-range plan to cover Australia by this means.

Observations were made at 1065 stations along 20,000 kilometres of road. Results were derived by electronic computer in Canberra as the field work progressed. A programme was developed to plot the stations and observed values on a Mercator projection, ready for contouring. Data will be updated to epoch 1970.0 for use in preparation of the set of isomagnetic charts at that epoch.

The 1967 results show that previous isomagnetic charts, produced from observations at greater station separation, will require revision in many places.

1. INTRODUCTION

A full third-order regional magnetic survey was carried out in Queensland by the Bureau of Mineral Resources (BMR) in 1967. Third-order surveys for the measurement of declination (D) only, had been made previously in Western Australia in 1962 (van der Linden, 1965a), South Australia and New South Wales in 1963 (van der Linden, 1965b), and in New South Wales, Queensland, and Tasmania in 1964 (van der Linden, 1968).

The 1967 survey, which forms the subject of this Record, was the first in which all three elements of the geomagnetic field were measured at about 16-kilometre intervals along all roads and tracks. The elements measured were D, horizontal intensity (H), and total intensity (F).

Appendix 1 defines the types of magnetic survey carried out, or to be carried out, by BMR. Previous surveys are considered to have been second-order, and had the following disadvantages:

- (a) Most of the observations (about 70%) were made before 1958, with comparatively inaccurate instruments (CIW magnetometers and earth inductors).
- (b) Many of the data (50% pre-1917) had to be updated using uncertain secular variation values.
- (c) The stations were fairly widely spaced.

The intention now is to abandon such second-order surveys (except for declination mapping, see Chapter 4) and instead cover the country by a "one-off" third-order survey to supplement periodic

first-order re-occupations. A network of 58 first-order stations has been established and will provide accurate secular variation data. The third-order survey will provide closely spaced results of sufficient accuracy to provide fine control over the isomagnetic lines and to indicate how representative of the region are the first-order results.

In the third-order survey, elementary readings of instruments such as the QHM, Elsec proton precession magnetometer, and Wild TO compass theodolite can be made quickly. Up to 15 stations can be occupied per day, so large areas can be covered each field season. The station density will be increased by a factor of ten.

2. ACCOUNT OF SURVEY

Outline

The survey was conducted in Queensland in the area south of latitude 20°S from May to November 1967 by the author, assisted by field hand L. McAven. A location diagram and the station positions are shown in Plate 1, which also shows the first-order stations in the area.

Instruments used were QHM306, Elsec PPM329, and Wild TO compass theodolite 104407. Corrections applied were:

Wild TO 104407	:	+34.0 minutes (to declination)
QHM306	:	-55 gamma/gauss for H
	:	+1 degree 42 minutes for D

The corrections for the Wild were determined before the survey (+34'), and during the survey (+35') with Askania Declinometer 320. A determination at Toolangi Observatory after the survey gave +33.4'. The Elsec PPM has no correction.

Readings of D, H, and F were taken along about 20,000 kilometres of road traverses, at 1065 locations. The traverses were from 65 to 80 kilometres apart, but in some areas wider spacing was necessary because of the scarcity of roads.

Station positions were not marked on the ground, but were carefully marked on the 1:250,000 series planimetric maps. Most of the maps of the survey area are compiled from aerial photography, and their reliability is good.

The weekly production target was set at fifty stations. At times the survey, because of bad weather or poor roads, fell behind this target but when conditions were better the back lag was caught up in a few weeks.

For transport a station sedan was used. This vehicle was modified to cope with the outback roads, which are often very rough. It was fitted with a limited-slip differential, heavy duty springs and shock absorbers, and a protective shield under the sump and the petrol tank. Other protections were stone shields for windscreen and headlights, and a "bull bar" against straying animals. Quartz-iodine driving lights proved excellent for night driving, and a second speedometer with tripmeter in front of the passenger was a great help in navigating and locating station positions.

Some breakdowns occurred, all through damage by rocks, but these caused no significant loss of time as repairs were done very quickly by the local dealers. The rocky roads and the constant stopping and starting caused heavy wear of tyres.

Observations were also made on 22 islands of the Great Barrier Reef. For this purpose the party joined the lighthouse service ship Cape Moreton.

Station requirements

A station location has to satisfy the following conditions:

- (a) Be at a sufficient distance from artificial sources of magnetic disturbance, e.g. wire fences (6 metres), telegraph posts, culverts, drains etc (20 metres), railway lines, high tension wires (at least 100 metres), bridges (3 x their length).
- (b) Be at least 3 metres away from the road, as most road building materials are magnetic.
- (c) Have an unobstructed view of the sun.
- (d) Be away from volcanic or igneous rock outcrops.
- (e) Be identifiable on the map.

Most of these conditions can be readily identified on the map or observed while driving along.

Observing procedure

The routine followed in the field by a party of two (driver A and navigator B) travelling in one vehicle is:

1. En route to the station, B selects the anticipated station position on the map and guides A to it. He is not strictly bound by the 16-kilometre distance between stations but makes his selection with the foregoing conditions in mind.

2. On arrival at the station, B marks the position and station number on the map, A and B unload the instruments, A then moves the vehicle at least 50 metres, and B sets up instruments.
3. A returns to the site (on foot); B concentrates on one instrument (say compass-theodolite) and begins to observe; A concentrates on the other instrument (in this case the QHM) and begins to observe, noting his findings in his own notebook. In this manner one set of QHM (plus pi and minus pi torsion) and two sets of sun observations (horizontal circle reading only) are made. The observer who finishes his set of observations first prepares the Elsec magnetometer and takes readings.
4. The two observers change instruments; in this case A reads the compass-theodolite and B the QHM. At the end a check reading of the Elsec is made. The two independent readings by A and B are compared and A's readings are entered in the field notebook, if the readings agree; if they do not, the mistakes are located or a new set of observations is made.

A typical instrument setup, showing the minimum distances between the instruments, is shown in Figure 1.

The only data left to be entered in the field notebook are: map co-ordinates, declination and Greenwich hour angle of the sun, and the chronometer corrections. These are extracted whenever holdups occur; two common causes of holdups are clouds obscuring the sun, and vehicle servicing or repairs.

The chronometer is rated daily at about the same hour, and the corrections are plotted on graph paper, from which the corrections at times of observation are interpolated linearly.

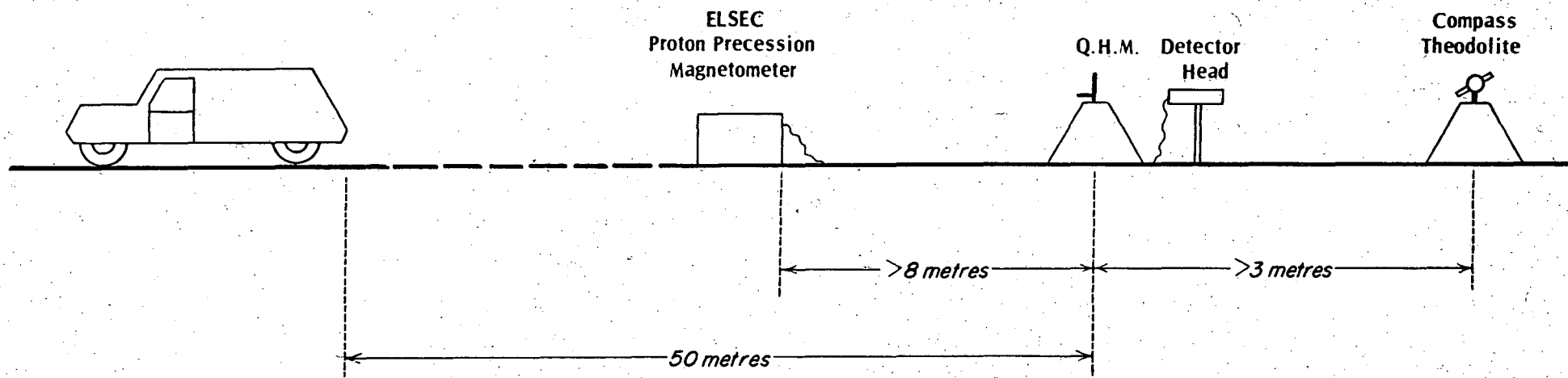
To maintain good progress of the survey, speedy observing and close co-operation at the station site are essential. It takes from two to three weeks for a team to become fully efficient in a strict survey routine.

Rain in the outback, besides holding up observations, can make roads and creek crossings impassable for a considerable time. Therefore when heavy rain seems likely it is advisable to move to a district not affected by rain.

3. RESULTS AND DISCUSSION

Two computer programmes were written for handling the large amount of data.

One computes all field observations (D, H, F) and derives the other magnetic elements (X, Y, Z, I). The elevations of the stations are included in the data, as required by the World Magnetic Survey Board. The other programme plots the station positions and the observed (or derived) values within a Mercator projection grid.



INSTRUMENT SET-UP - THIRD-ORDER MAGNETIC SURVEY

FIGURE 1.

The results are rounded off to 10 gammas (H and Z), 0.05 degrees of arc (D), and 10 metres (elevation). The elevations were obtained from spot heights or contours on the topographic maps.

To smooth the noise caused by very local anomalies, D.M. Finlayson wrote a programme to obtain a running average of groups of three stations. From these smoothed values, contour maps of the magnetic elements D, I, H, X, Y, Z, and F were drawn. These are presented in Plates 2 to 8.

No efforts were made to smooth the contour lines to eliminate crustal and regional effects. This will be done later after a greater part of Australia has been surveyed.

To compare the results with earlier results, the relevant sections of the 1957.5 isomagnetic maps of Eastern Australia (Parkinson & Curedale 1960) were superimposed on the new maps. After allowing for secular variation and the non-smoothing of the present maps, it was found that in many parts adjustments will have to be made to the earlier maps. These are up to 0.3 degrees in D, 0.5 degrees in I, and 300 gammas in H, Z, and F.

The north-western corner of the 1967 survey area had been surveyed in 1964 for declination only (van der Linden, 1968); the two sets of results agree closely in this region.

The nine-degree isogonic line that forms a loop north of the line connecting Augathella, Mitchell, and Roma (Plate 2) seems to be in error. It is largely influenced by the results of the traverse from Augathella to Taroom; this traverse will be repeated during the 1968 field season.

4. FUTURE PROGRAMME

On the location diagram (Inset, Plate 1), Australia is divided into nine regions, of which the present survey covered Region F. The third-order surveys will be continued until the whole of Australia is covered. This is expected to be accomplished by 1975. Thereafter first-order re-occupations every decade, and declination re-occupations every five years (at first-order stations), should suffice to provide accurate isomagnetic charts.

To make all survey data compatible a computer programme is being developed which will adjust the data of the various surveys to a common epoch. Also a computer programme will be studied, which eliminates local anomaly effects. The output of this programme is envisaged as a plot of smoothed isomagnetic lines.

5. ACKNOWLEDGEMENTS

Permission for the survey party to travel on the ship Cape Moreton was given by the Regional Director, Department of Shipping and Transport, Brisbane. This permission, and the enthusiastic assistance given by Captain Chesterman and his crew, are gratefully acknowledged.

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APPENDIX 1

NOTES ON REGIONAL MAGNETIC STATIONS

1. First-order station. A first-order station is a place at which the geomagnetic field has been observed (or recorded with "absolute" control) more or less continuously for two or three days, with an accuracy of 5 gammas or better in the absence of magnetic storms, and which is sufficiently well marked and located that re-occupation within three to five years will be possible.
2. Second-order station. A second-order station is a place at which the field has been observed several times during one day with an accuracy of 5 gammas and which is marked so that re-occupation may be possible in the future.
3. Third-order station. A third-order station is one at which the field, or one of its components, has been observed once with an accuracy of about 20 gammas (or the equivalent angle) and which is located only by a map.

APPENDIX 2

THE WILD TO COMPASS THEODOLITE

As this instrument had not been used before in regional magnetic surveys a short description is given.

The instrument is fitted with a swinging horizontal circle or compass card, to the under side of which a magnet is attached. The circle has a spring-mounted jewel bearing that can be lowered onto a steel pivot. When the circle is lowered onto the pivot, the magnet sets the zero mark of the circle automatically to magnetic north; thus when the circle is clamped all readings become magnetic bearings. A prismatic optical system ensures that the circle is read at two diametrically opposed graduation lines. After coincidence setting of the lines by means of the optical micrometer their average value is given by a single reading.

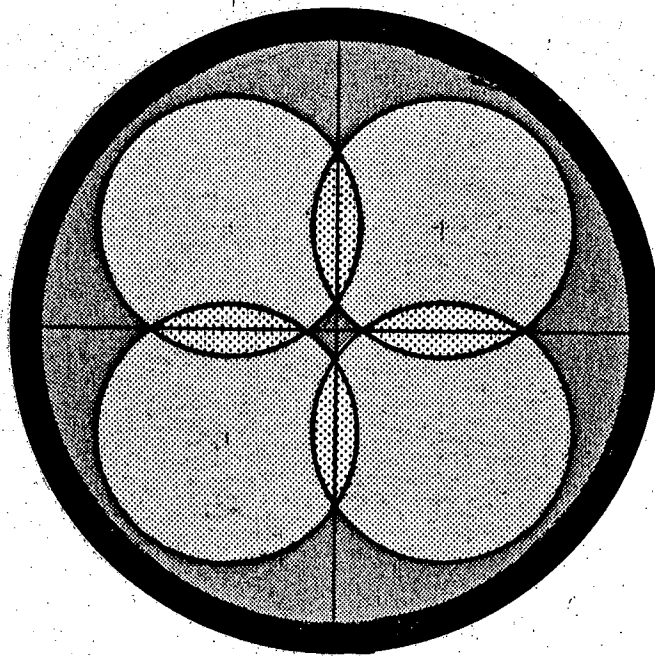
For magnetic declination determinations, horizontal circle observations of the sun are taken, giving the magnetic bearing of the sun with an accuracy of 1 minute of arc. The true bearing of the sun can be derived from the time of the instant of observation and the geographical co-ordinates. The difference between the magnetic bearing and the true bearing is the declination.

During the sun observations the Wild-Roelofs Solar Prism attachment is used. This produces four overlapping images of the sun, with a small dark diamond shape in the centre. The centre of the sun can then be aimed at by simply setting the crosshairs over the diamond shape. An illustration of the images of the sun formed by the solar prism is shown in Figure 2.

The instrument thus provides a quick and accurate way of measuring declination by sun observations only. A disadvantage is the limitation of the vertical angle of the telescope to 45 degrees.

When the sun is higher than 45 degrees, declination is measured by using the zero reading of QHM 306 and sun observations made with the black mirror on the Askania circle.

FIGURE 2.



IMAGES OF THE SUN
using
WILD-ROELOFS SOLAR PRISM

STATION	LAT DEG MIN	LONG DEG MIN	Y	M	D	D DEG	TABLE 1 SHEET 1		X	Y	Z	F	SL METRES
							DEG	M					
F67 1	-28 2.3	152 56.6	67	9	10	10.40	-58.10	28000	28330	5200	-46360	54580	90
F67 2	-28 10.5	152 56.0	67	9	10	10.38	-58.25	28010	28340	5150	-46400	54790	90
F67 3	-28 16.7	152 47.8	67	9	11	10.36	-58.25	28040	28210	5220	-46400	54560	180
F67 4	-28 23.9	152 38.6	67	9	11	11.19	-58.35	28700	28160	5550	-46450	54780	370
F67 5	-28 23.8	152 25.5	67	9	11	10.49	-58.60	28540	28080	5190	-46900	54820	490
F67 6	-28 20.0	152 17.6	67	9	11	10.19	-58.45	28530	28090	5020	-46970	54620	490
F67 7	-28 17.5	152 7.4	67	9	11	10.50	-58.40	28580	28110	5210	-46940	54620	370
F67 8	-28 11.6	151 57.1	67	9	11	10.25	-58.25	28700	28240	5110	-46490	54610	450
F67 9	-28 10.6	151 47.9	67	9	11	10.20	-58.20	28750	28290	5100	-46460	54640	450
F67 10	-28 12.0	151 36.2	67	9	11	10.40	-58.25	28780	28310	5200	-46610	54790	460
F67 11	-28 17.5	151 29.5	67	9	11	10.35	-58.30	28660	28200	5140	-46480	54610	500
F67 12	-28 22.4	151 20.5	67	9	11	10.05	-58.55	28590	28150	4980	-46790	54640	340
F67 13	-28 24.5	151 10.0	67	9	12	10.25	-58.60	28580	28130	5080	-46880	54920	310
F67 14	-28 26.7	150 59.3	67	9	12	10.20	-58.80	28450	28000	5040	-47040	54980	270
F67 15	-28 32.5	150 51.5	67	9	12	10.45	-58.75	28500	28020	5160	-47070	55030	240
F67 16	-28 33.9	150 43.5	67	9	12	10.35	-58.85	28420	27960	5100	-47060	54980	250
F67 17	-28 30.0	150 35.5	67	9	12	10.55	-58.75	28430	27956	5210	-46960	54910	230
F67 18	-28 30.0	150 24.7	67	9	12	10.55	-58.80	28470	27990	5210	-47070	55020	220
F67 19	-28 30.0	150 12.3	67	9	12	10.35	-59.10	28410	27940	5110	-47530	55380	210
F67 20	-28 28.2	150 2.7	67	9	12	10.15	-58.85	28490	28040	5030	-47240	55170	200
F67 21	-28 24.9	149 53.1	67	9	12	10.00	-59.10	28400	27970	4930	-47570	55410	200
F67 22	-28 26.6	149 44.2	67	9	12	10.05	-58.85	28540	28160	4980	-47440	55400	190
F67 23	-28 27.0	149 34.6	67	9	13	9.80	-59.10	28440	28030	4840	-47610	55470	190
F67 24	-28 24.3	149 24.4	67	9	13	9.65	-59.10	28420	28010	4770	-47570	55420	180
F67 25	-28 24.5	149 15.4	67	9	13	9.50	-59.05	28410	28020	4690	-47490	55350	230
F67 26	-28 22.3	149 5.8	67	9	13	9.75	-59.00	28420	28010	4820	-47400	55280	200
F67 27	-28 21.4	148 56.4	67	9	13	9.65	-59.00	28440	28040	4760	-47460	55340	200
F67 28	-28 17.0	148 47.3	67	9	13	9.25	-58.85	28530	28160	4590	-47510	55250	190
F67 29	-28 10.2	148 43.4	67	9	13	9.30	-58.75	28700	28320	4640	-47360	55380	200
F67 30	-28 2.7	148 35.7	67	9	13	8.85	-58.55	28710	28370	4430	-47050	55120	200
F67 31	-28 1.7	148 26.1	67	9	14	9.30	-58.60	28730	28350	4630	-47160	55230	200
F67 32	-27 56.1	148 17.9	67	9	14	9.25	-58.45	28790	28420	4640	-46940	55080	210
F67 33	-27 57.7	148 6.5	67	9	14	9.50	-58.50	28780	28380	4760	-47090	55190	210
F67 34	-27 56.9	147 56.0	67	9	15	9.25	-58.75	28620	28250	4600	-47300	55290	210
F67 35	-27 58.7	147 46.7	67	9	15	9.15	-58.65	28640	28270	4560	-47090	55120	210
F67 36	-28 0.2	147 36.8	67	9	15	9.15	-58.70	28590	28230	4540	-47120	55120	190
F67 37	-28 1.8	147 26.2	67	9	15	9.05	-58.80	28540	28180	4500	-47200	55170	190
F67 38	-28 0.1	147 15.8	67	9	15	9.20	-58.75	28570	28200	4580	-47130	55120	190
F67 39	-27 59.3	147 6.4	67	9	15	9.30	-58.75	28570	28200	4610	-47150	55140	190
F67 40	-27 59.1	146 56.1	67	9	15	9.25	-58.85	28540	28170	4580	-47260	55210	210
F67 41	-27 59.7	146 46.4	67	9	15	9.25	-58.95	28480	28110	4570	-47360	55280	190
F67 42	-27 59.8	146 36.4	67	9	15	8.95	-58.95	28490	28140	4430	-47380	55290	190
F67 43	-28 0.2	146 26.5	67	9	15	8.80	-58.95	28520	28180	4360	-47460	55370	180
F67 44	-28 0.1	146 16.7	67	9	15	8.85	-58.90	28590	28250	4400	-47490	55440	180
F67 45	-27 58.8	146 7.3	67	9	15	8.60	-58.85	28690	28370	4280	-47560	55560	190
F67 46	-28 1.8	145 57.7	67	9	15	8.40	-59.10	28460	28160	4170	-47630	55490	190
F67 47	-28 4.0	145 47.7	67	9	16	8.45	-59.10	28400	28090	4180	-47550	55390	190
F67 48	-28 4.8	145 37.8	67	9	16	8.45	-59.05	28490	28180	4180	-47620	55500	190
F67 49	-28 5.4	145 27.0	67	9	16	8.65	-59.10	28420	28100	4280	-47610	55460	170
F67 50	-28 4.5	145 17.5	67	9	16	8.45	-59.15	28440	28130	4190	-47680	55520	180
F67 51	-28 8.5	145 8.3	67	9	16	8.50	-59.20	28370	28060	4200	-47680	55490	160
F67 52	-28 9.2	144 58.6	67	9	16	8.45	-59.25	28360	28050	4170	-47710	55510	170
F67 53	-28 7.4	144 48.0	67	9	16	8.90	-59.20	28330	28020	4130	-47560	55370	160
F67 54	-28 7.8	144 38.8	67	9	17	8.35	-59.25	28350	28050	4120	-47700	55500	200
F67 55	-28 6.5	144 28.9	67	9	17	8.50	-59.20	28400	28090	4190	-47710	55530	190
F67 56	-28 5.3	144 19.0	67	9	17	8.50	-59.20	28380	28070	4190	-47730	55540	180
F67 57	-28 5.5	144 7.8	67	9	17	8.40	-59.25	28370	28070	4140	-47610	55600	160
F67 58	-28 0.3	144 0.4	67	9	17	8.30	-59.15	28410	28110	4110	-47680	55510	140
F67 59	-27 59.9	143 50.2	67	9	17	8.15	-59.20	28410	28130	4020	-47710	55540	120

TABLE 1 SHEET 2

STATION	LAT DEG MIN	LONG DEG MIN	Y	M	D	D DEG	I DEG	H	X	Y	Z	F	EL METRES
F67 00	-27 56.9	143 40.9	67	5	17	8.05	-59.15	28460	28180	3980	-47700	55550	120
F67 01	-27 50.5	143 30.9	67	5	18	8.00	-59.00	28530	28250	3980	-47590	55500	100
F67 02	-27 46.4	143 22.4	67	5	18	8.00	-59.00	28530	28250	3970	-47560	55470	130
F67 03	-27 44.0	143 14.2	67	5	18	8.00	-58.95	28550	28270	3980	-47550	55470	190
F67 04	-27 37.1	143 7.6	67	5	18	8.00	-58.85	28640	28340	4000	-47450	55440	120
F67 05	-27 37.0	142 56.1	67	5	18	7.90	-58.85	28620	28350	3920	-47460	55430	110
F67 06	-27 22.7	142 35.0	67	5	22	7.15	-58.60	28770	28540	3980	-47210	55290	120
F67 07	-27 22.5	142 26.2	67	5	22	7.15	-58.65	28750	28530	3980	-47260	55330	120
F67 08	-27 20.5	142 16.5	67	5	22	7.20	-58.65	28750	28530	3610	-47310	55370	120
F67 09	-27 15.1	142 6.8	67	5	22	7.00	-58.60	28840	28620	3920	-47320	55420	110
F67 70	-27 8.2	142 1.7	67	5	22	7.10	-58.45	28880	28660	3960	-47100	55260	60
F67 71	-27 5.0	141 54.3	67	5	23	7.00	-58.30	28980	28770	3940	-47030	55250	80
F67 72	-26 37.7	144 5.5	67	5	25	7.40	-57.60	29270	29020	3760	-46190	54690	190
F67 73	-26 36.6	143 55.0	67	5	25	7.40	-57.60	29270	29030	3760	-46170	54680	210
F67 74	-26 27.0	143 46.3	67	5	25	7.00	-57.45	29360	29140	3980	-46040	54610	220
F67 75	-26 21.4	143 38.8	67	5	25	7.35	-57.35	29400	29160	3760	-45960	54570	190
F67 76	-26 14.5	143 32.5	67	5	25	7.15	-57.25	29450	29220	3670	-45880	54530	160
F67 77	-26 5.9	143 26.5	67	5	25	7.25	-57.10	29530	29290	3730	-45700	54420	170
F67 78	-25 57.5	143 26.7	67	5	25	7.20	-56.90	29600	29370	3720	-45530	54320	170
F67 79	-25 47.5	143 22.3	67	5	25	7.25	-56.75	29690	29460	3740	-45350	54220	180
F67 80	-25 41.0	143 15.3	67	5	25	7.25	-56.60	29770	29530	3750	-45250	54170	160
F67 81	-25 38.9	143 5.5	67	5	25	7.20	-56.60	29800	29570	3730	-45260	54200	190
F67 82	-25 33.2	142 56.4	67	5	25	7.15	-56.50	29870	29640	3720	-45180	54170	130
F67 83	-25 27.5	142 48.8	67	5	25	7.10	-56.40	29920	29690	3700	-45080	54120	130
F67 84	-25 24.2	142 39.9	67	5	25	7.10	-56.35	29950	29720	3690	-45060	54110	140
F67 85	-25 21.7	142 30.7	67	5	25	7.30	-56.50	29770	29530	3780	-45030	53990	140
F67 86	-25 20.4	142 21.2	67	5	25	6.90	-56.60	29670	29450	3960	-45070	53960	130
F67 87	-25 20.4	142 11.7	67	5	25	6.75	-56.60	29670	29460	3490	-45070	53970	130
F67 88	-25 21.5	142 2.4	67	5	26	6.75	-56.75	29500	29300	3480	-45100	53900	140
F67 89	-25 22.2	141 52.7	67	5	26	6.70	-56.75	29530	29330	3440	-45120	53930	170
F67 90	-25 22.3	141 41.1	67	5	26	6.20	-56.75	29550	29380	3180	-45120	53940	130
F67 91	-25 23.0	141 31.4	67	5	26	6.50	-56.80	29520	29330	3340	-45190	53980	140
F67 92	-25 16.0	141 24.4	67	5	26	6.55	-56.65	29580	29390	3370	-45060	53910	100
F67 93	-25 9.5	141 18.0	67	5	26	6.50	-56.55	29640	29450	3360	-44950	53850	100
F67 94	-25 9.0	141 8.5	67	5	26	6.55	-56.55	29660	29470	3400	-44940	53850	110
F67 95	-25 13.3	141 0.0	67	5	26	6.80	-56.55	29690	29490	3400	-45030	53950	90
F67 96	-25 21.0	140 57.5	67	5	26	6.65	-56.75	29570	29380	3410	-45220	54040	80
F67 97	-25 28.0	140 52.7	67	5	26	6.60	-56.90	29490	29290	3400	-45350	54100	80
F67 98	-25 34.3	140 47.4	67	5	26	6.60	-57.05	29470	29280	3400	-45560	54270	70
F67 99	-25 41.8	140 42.8	67	5	26	6.45	-57.00	29560	29370	3330	-45640	54380	70
F67 100	-25 43.5	140 32.5	67	5	26	6.40	-57.05	29550	29370	3290	-45670	54410	60
F67 101	-25 43.5	140 21.2	67	5	27	6.40	-57.05	29550	29370	3280	-45700	54430	60
F67 102	-25 39.7	140 11.8	67	5	27	6.25	-57.00	29600	29430	3220	-45650	54410	60
F67 103	-25 39.9	140 1.8	67	5	27	6.20	-57.00	29590	29410	3200	-45670	54420	60
F67 104	-25 44.4	139 53.8	67	5	27	6.20	-57.10	29540	29360	3200	-45780	54490	60
F67 105	-25 46.5	139 44.8	67	5	27	6.35	-57.20	29520	29340	3270	-45860	54550	50
F67 106	-25 47.7	139 35.0	67	5	27	6.15	-57.20	29480	29310	3170	-45860	54530	70
F67 107	-25 52.7	139 21.0	67	5	27	6.25	-57.30	29440	29270	3200	-45970	54600	50
F67 108	-25 43.0	139 19.9	67	5	27	6.25	-57.20	29520	29340	3220	-45870	54550	100
F67 109	-25 31.8	139 24.1	67	5	27	6.35	-56.95	29680	29500	3280	-45700	54500	80
F67 110	-25 24.6	139 27.2	67	5	27	6.25	-56.65	29830	29650	3240	-45440	54360	80
F67 111	-25 15.7	139 32.6	67	5	28	6.05	-56.50	29870	29700	3160	-45210	54200	80
F67 112	-25 6.8	139 35.8	67	5	28	6.05	-56.30	29920	29760	3150	-44980	54040	100
F67 113	-24 58.6	139 39.5	67	5	28	6.10	-56.20	29930	29760	3190	-44760	53860	100
F67 114	-24 49.8	139 36.7	67	5	28	6.05	-56.10	29960	29800	3150	-44630	53760	80
F67 115	-24 43.0	139 31.7	67	5	28	6.30	-56.00	29980	29800	3290	-44530	53690	80
F67 116	-24 32.2	139 33.7	67	5	28	6.00	-55.85	30120	29950	3150	-44450	53700	90
F67 117	-24 23.9	139 28.5	67	5	28	6.25	-55.70	30050	29870	3270	-44100	53380	90
F67 118	-24 14.0	139 27.5	67	5	29	6.00	-55.80	30080	29920	3150	-44360	53610	100
F67 119	-24 7.1	139 33.6	67	5	29	5.25	-55.35	30400	30270	2780	-44070	53550	100

STATION	LAT		LONG		Y	M	D	TABLE 1 SHEET 3							EL METHOD
	DEG	MIN	DEG	MIN				D DEG	I DEG	H	X	Y	Z	F	
167 120	-23	58.6	139	33.7	67	5	29	5.20	-55.25	30370	30240	2750	-43860	51350	100
167 121	-23	48.5	139	33.7	67	5	29	6.25	-54.90	30610	30430	3320	-43640	51320	110
167 122	-23	40.6	139	38.1	67	5	29	6.05	-54.80	30590	30420	3230	-43430	51130	110
167 123	-23	32.7	139	40.7	67	5	29	5.95	-54.65	30660	30500	3180	-43330	51090	110
167 124	-23	23.0	139	40.4	67	5	29	5.70	-54.70	30610	30460	3090	-43300	51030	120
167 125	-23	14.2	139	42.7	67	5	29	6.70	-54.20	31080	30870	3640	-43150	51190	130
167 126	-23	5.0	139	46.1	67	5	29	6.55	-53.85	31100	30900	3540	-42600	52750	140
167 127	-22	58.3	139	52.6	67	5	30	6.35	-53.55	31190	31000	3460	-42300	52570	150
167 128	-22	56.9	139	43.2	67	5	30	6.20	-53.75	31050	30870	3350	-42380	52540	140
167 129	-22	55.8	139	33.0	67	5	30	6.35	-54.05	31030	30840	3430	-42840	52910	150
167 130	-22	59.4	139	33.9	67	5	30	5.60	-54.10	30850	30700	3010	-42670	52660	130
167 131	-23	2.8	139	14.5	67	5	30	5.70	-54.05	30940	30790	3070	-42750	52780	130
167 132	-23	0.1	139	4.0	67	5	30	5.70	-54.00	30940	30780	3080	-42620	52670	130
167 133	-22	56.8	138	57.5	67	5	30	6.00	-53.90	31090	30920	3260	-42680	52810	140
167 134	-22	54.7	138	48.0	67	5	31	6.00	-53.85	31060	30890	3250	-42580	52710	140
167 135	-22	44.7	138	46.3	67	5	31	5.95	-53.75	31120	30950	3240	-42480	52670	140
167 136	-22	36.0	138	49.2	67	5	31	5.65	-53.45	31220	31070	3060	-42210	52520	160
167 137	-22	27.6	138	51.1	67	5	31	5.60	-53.30	31320	31170	3050	-42060	52450	150
167 138	-22	18.9	138	46.7	67	5	31	6.00	-52.95	31540	31370	3290	-41880	52440	160
167 139	-22	10.5	138	43.3	67	5	31	5.90	-52.80	31450	31280	3250	-41520	52090	160
167 140	-22	3.4	138	37.6	67	5	31	6.10	-52.90	31290	31110	3310	-41470	51960	170
167 141	-21	52.4	138	37.7	67	5	31	6.35	-52.80	31630	31430	3510	-41720	52360	170
167 142	-21	44.6	138	36.2	67	5	31	5.90	-52.30	31740	31570	3270	-41140	51960	170
167 143	-21	42.1	138	24.0	67	5	31	5.25	-52.30	32010	31680	2940	-41470	52400	170
167 144	-21	35.5	138	18.0	67	6	1	5.30	-52.10	31770	31640	2920	-40890	51790	180
167 145	-21	25.8	138	18.0	67	6	1	5.20	-52.30	31480	31350	2850	-40810	51550	180
167 146	-21	14.9	138	19.0	67	6	1	5.20	-52.25	31730	31590	2890	-41070	51910	190
167 147	-21	4.7	138	22.7	67	6	1	5.65	-51.60	32190	32030	3170	-40680	51880	180
167 148	-20	55.4	138	24.8	67	6	1	5.65	-51.40	32220	32060	3180	-40410	51690	210
167 149	-20	42.3	138	26.5	67	6	1	5.65	-51.15	32320	32160	3190	-40210	51600	240
167 150	-20	33.9	138	27.3	67	6	1	5.80	-50.85	32380	32220	3270	-39870	51370	250
167 151	-20	26.2	138	24.0	67	6	1	5.65	-50.75	32400	32240	3190	-39710	51260	250
167 152	-20	19.6	138	18.1	67	6	1	5.50	-50.65	32420	32270	3120	-39600	51190	220
167 153	-20	11.8	138	13.2	67	6	1	5.35	-50.55	32480	32340	3040	-39500	51150	240
167 154	-20	4.3	138	8.0	67	6	1	5.20	-50.40	32570	32430	2950	-39410	51130	240
167 155	-19	55.5	138	18.0	67	6	2	5.00	-50.35	32700	32570	2840	-39500	51290	290
167 156	-19	58.0	138	27.7	67	6	2	5.55	-50.30	32580	32420	3140	-39320	51070	340
167 157	-20	1.7	138	38.9	67	6	2	5.75	-50.10	32630	32460	3260	-39120	50940	330
167 158	-20	5.0	138	46.8	67	6	2	5.60	-50.15	32510	32350	3170	-39040	50810	320
167 159	-20	11.4	138	53.7	67	6	2	5.65	-50.25	32530	32370	3190	-39140	50900	310
167 160	-20	16.3	139	1.8	67	6	2	5.80	-50.05	32590	32400	3180	-38910	50740	340
167 161	-20	21.8	139	10.5	67	6	2	5.35	-50.45	32160	32020	3010	-38970	50530	370
167 162	-20	23.0	139	19.8	67	6	2	4.85	-50.40	32260	32150	2740	-39050	50660	410
167 163	-20	29.9	139	25.5	67	6	2	4.90	-51.00	32230	32110	2750	-39850	51260	500
167 164	-20	37.4	139	28.8	67	6	2	5.75	-50.70	32340	32180	3250	-39570	51120	390
167 165	-20	43.3	139	33.5	67	6	4	6.45	-50.70	32270	32070	3620	-39480	51000	410
167 166	-20	42.8	139	42.5	67	6	4	5.45	-50.50	32310	32160	3080	-39220	50820	400
167 167	-20	45.7	139	51.2	67	6	4	5.60	-51.00	32050	31900	3120	-39620	50970	400
167 168	-20	48.2	140	0.2	67	6	4	3.50	-50.75	32430	32370	1990	-39770	51320	340
167 169	-20	46.3	140	9.7	67	6	4	5.70	-51.00	32720	32560	3240	-40440	52020	290
167 170	-20	42.9	140	18.2	67	6	4	4.90	-50.70	32350	32240	2760	-39580	51130	280
167 171	-20	42.8	140	28.1	67	6	4	6.35	-50.40	32960	32760	3630	-39880	51750	190
167 172	-20	43.5	140	37.3	67	6	5	5.85	-51.30	32610	32440	3310	-40760	52210	210
167 173	-20	39.5	140	45.8	67	6	5	6.80	-52.35	32380	32150	3840	-42070	53100	160
167 174	-20	38.7	140	55.3	67	6	5	6.20	-50.75	32300	32110	3490	-39580	51100	150
167 175	-20	39.0	141	4.6	67	6	5	6.25	-50.55	32300	32100	3530	-39330	50900	120
167 176	-20	37.4	141	14.5	67	6	5	5.90	-50.60	32430	32260	3320	-39550	51160	130
167 177	-20	39.4	141	25.1	67	6	5	6.20	-50.65	32310	32120	3500	-39450	51000	120
167 178	-20	39.7	141	34.9	67	6	5	6.25	-50.70	32300	32110	3530	-39550	51070	130
167 179	-20	39.6	141	43.8	67	6	5	6.40	-50.55	32430	32230	3620	-39450	51070	130

TABLE 1 SHEET 4

STATION	LAT DEG MIN	LONG DEG MIN	Y	M	D	U DEG	I DEG	M	X	Y	Z	F	EL METRES
67 180	-20 39.2	141 53.2	67	6	5	6.20	-50.45	32410	32220	3490	-39310	50950	130
67 181	-20 39.1	142 3.2	67	6	5	6.00	-50.45	32340	32160	3370	-39220	50840	140
67 182	-20 39.2	142 13.0	67	6	6	6.45	-50.55	32350	32140	3630	-39380	50970	140
67 183	-20 40.3	142 22.0	67	6	6	6.20	-50.65	32230	32050	3470	-39400	50920	150
67 184	-20 41.9	142 31.4	67	6	6	6.20	-50.65	32270	32080	3490	-39450	50980	160
67 185	-20 43.3	142 40.7	67	6	6	6.40	-50.85	32130	31930	3570	-39520	50940	170
67 186	-20 44.2	142 51.3	67	6	6	6.05	-50.65	32290	32110	3410	-39420	50970	190
67 187	-20 44.0	143 1.7	67	6	6	5.95	-50.50	32450	32280	3350	-39420	51070	210
67 188	-20 46.0	143 10.4	67	6	6	6.20	-50.60	32390	32200	3500	-39510	51090	220
67 189	-20 49.2	143 19.7	67	6	6	6.45	-50.75	32350	32140	3650	-39630	51170	230
67 190	-20 51.1	143 28.5	67	6	6	6.60	-50.80	32280	32070	3710	-39660	51150	230
67 191	-20 52.1	143 37.4	67	6	6	6.50	-50.80	32320	32120	3660	-39710	51210	240
67 192	-20 52.8	143 47.5	67	6	6	6.75	-50.80	32310	32080	3800	-39640	51150	240
67 193	-20 52.0	143 56.4	67	6	6	6.65	-50.65	32350	32130	3750	-39500	51060	260
67 194	-20 51.8	144 6.1	67	6	7	6.70	-50.65	32310	32090	3770	-39490	51030	320
67 195	-20 52.5	144 14.6	67	6	7	6.65	-50.70	32240	32020	3720	-39470	50970	340
67 196	-20 52.3	144 23.4	67	6	7	6.35	-50.60	32310	32120	3580	-39380	50950	360
67 197	-20 52.6	144 32.5	67	6	7	6.75	-50.60	32310	32090	3790	-39400	50960	400
67 198	-20 51.2	144 42.3	67	6	7	6.50	-50.60	32210	32000	3640	-39300	50820	430
67 199	-20 54.0	144 51.1	67	6	7	6.70	-50.60	32310	32080	3780	-39410	50970	440
67 200	-20 46.3	145 1.0	67	6	7	6.85	-50.50	32360	32120	3860	-39310	50920	470
67 201	-20 47.0	145 14.9	67	6	7	6.90	-50.45	32380	32150	3890	-39280	50920	460
67 202	-20 41.0	145 20.9	67	6	8	6.95	-50.30	32460	32220	3930	-39140	50860	460
67 203	-20 0.6	145 23.8	67	6	8	6.95	-49.25	32860	32620	3970	-38180	50380	250
67 204	-19 56.0	145 32.0	67	6	8	7.05	-48.50	33180	32930	4070	-37560	50130	290
67 205	-19 51.1	145 39.8	67	6	8	7.20	-48.80	32880	32620	4120	-37600	49960	230
67 206	-19 48.8	145 48.7	67	6	8	7.25	-48.85	32960	32700	4160	-37740	50120	110
67 207	-19 40.4	145 50.1	67	6	8	7.80	-49.95	32370	32070	4390	-38580	50360	80
67 208	-19 32.5	145 59.5	67	6	9	6.85	-48.60	32890	32650	3920	-37330	49760	40
67 209	-19 32.9	147 7.2	67	6	9	7.15	-50.95	31310	31060	3890	-38630	49730	0
67 210	-19 33.5	147 17.8	67	6	9	7.45	-48.55	32880	32610	4250	-37260	49700	10
67 211	-19 40.6	147 25.3	67	6	9	7.45	-48.30	33010	32740	4270	-37100	49670	10
67 212	-19 48.7	147 33.3	67	6	9	7.55	-48.75	32800	32520	4300	-37440	49780	10
67 213	-19 52.9	147 42.0	67	6	9	7.70	-48.55	33070	32770	4420	-37530	50030	10
67 214	-19 55.5	147 51.1	67	6	9	7.70	-48.50	33400	33180	4490	-37790	50440	10
67 215	-19 58.1	148 0.0	67	6	10	7.95	-49.30	32540	32230	4500	-37880	49940	10
67 216	-20 1.0	148 9.6	67	6	10	7.10	-48.70	32730	32480	4040	-37300	49630	10
67 217	-20 7.5	148 15.5	67	6	10	7.95	-48.70	33270	32950	4610	-37950	50480	20
67 218	-20 12.0	148 23.7	67	6	10	8.15	-49.30	32550	32230	4610	-37890	49960	120
67 219	-20 17.9	148 30.9	67	6	10	7.85	-49.15	32690	32380	4470	-37830	50000	30
67 220	-20 26.7	148 35.3	67	6	11	7.60	-49.20	32620	32340	4320	-37860	49980	10
67 221	-20 35.7	148 37.1	67	6	11	7.80	-49.45	32570	32270	4410	-38110	50140	10
67 222	-20 45.2	148 36.4	67	6	11	8.60	-50.20	32460	32100	4840	-39040	50780	60
67 223	-20 50.9	148 42.2	67	6	11	7.75	-49.70	32680	32380	4410	-38610	50590	40
67 224	-20 57.0	148 49.1	67	6	11	5.10	-51.05	32160	32030	2860	-39870	51230	20
67 225	-21 3.2	148 55.3	67	6	11	8.00	-50.05	32290	31980	4480	-38580	50320	40
67 226	-21 5.5	149 4.0	67	6	12	7.70	-50.75	32130	31840	4310	-39350	50810	30
67 227	-21 13.2	149 9.2	67	6	12	7.75	-50.20	32390	32100	4360	-38910	50630	10
67 228	-21 21.5	149 11.8	67	6	12	8.05	-50.80	32370	32050	4530	-39740	51260	20
67 229	-21 30.5	149 13.9	67	6	12	8.40	-50.70	32310	31960	4730	-39550	51080	20
67 230	-21 38.5	149 17.3	67	6	12	8.40	-51.00	32280	31930	4720	-39690	51320	40
67 231	-21 46.7	149 22.3	67	6	12	8.50	-51.35	32090	31740	4740	-40150	51410	30
67 232	-21 55.1	149 24.8	67	6	12	8.35	-51.50	31790	31450	4620	-40020	51110	20
67 233	-22 2.6	149 29.2	67	6	12	8.30	-51.65	31730	31400	4580	-40140	51180	20
67 234	-22 11.5	149 29.6	67	6	12	7.95	-51.60	31870	31570	4420	-40260	51360	20
67 235	-22 19.4	149 29.7	67	6	12	8.40	-51.80	31810	31470	4640	-40470	51480	10
67 236	-22 28.5	149 29.9	67	6	12	8.55	-52.05	31820	31470	4730	-40850	51790	30
67 237	-22 36.7	149 32.3	67	6	12	8.65	-52.25	31570	31220	4740	-40830	51620	30
67 238	-22 42.6	149 39.4	67	6	13	8.45	-52.25	31510	31170	4620	-40750	51520	50
67 239	-22 47.2	149 48.4	67	6	13	8.00	-52.10	31620	31310	4410	-40700	51550	60

STATION	LAT		LONG		V	M	D	TABLE 1 SHEET 9					BL METRES		
	DEG	MIN	DEG	MIN				I DEG	M	N	Y	Z		F	
F67 240	-22	49.8	149	57.7	67	6	13	7.90	-51.95	31750	31480	4160	-40600	51550	100
F67 241	-22	53.1	150	5.9	67	6	13	8.20	-53.15	30670	30360	4360	-40960	51180	80
F67 242	-22	59.8	150	14.2	63	6	13	7.55	-51.90	31740	31460	4170	-40510	51470	80
F67 243	-23	2.7	150	19.3	67	6	13	8.70	-52.40	31160	30810	4720	-40530	51130	20
F67 244	-23	11.3	150	27.7	67	6	13	8.75	-52.20	31580	31210	4810	-40810	51610	60
F67 245	-23	19.5	150	31.0	67	6	13	9.00	-52.55	31390	31010	4910	-41050	51690	30
F67 246	-23	30.7	150	32.8	67	6	13	9.50	-52.90	31350	30910	5180	-41490	52010	20
F67 247	-23	39.1	150	38.2	67	6	13	9.40	-53.05	31500	31080	5130	-41940	52460	10
F67 248	-23	42.2	150	47.3	67	6	13	9.20	-52.95	31340	30940	5000	-41570	52070	10
F67 249	-23	47.2	150	55.2	67	6	14	8.95	-53.15	31230	30850	4860	-41710	52110	30
F07 250	-23	53.5	151	1.4	67	6	14	9.15	-53.00	31320	30930	4980	-41670	52140	40
F67 251	-23	57.9	151	9.2	67	6	14	8.85	-53.35	30900	30530	4740	-41610	51830	20
F67 252	-24	0.2	151	19.5	67	6	14	9.10	-55.10	30090	29710	4760	-43200	52690	10
F67 253	-24	7.3	151	27.4	67	6	14	9.05	-53.60	30860	30470	4850	-41920	52060	30
F67 254	-24	17.3	151	30.8	67	6	14	8.80	-53.70	30830	30470	4730	-42050	52150	90
F67 255	-24	27.5	151	35.1	67	6	14	9.05	-53.90	30710	30330	4840	-42220	52210	40
F67 256	-24	36.7	151	40.0	67	6	14	9.40	-54.10	30630	30220	5000	-42400	52320	60
F67 257	-24	46.5	151	42.0	67	6	14	9.15	-54.75	30340	29960	4820	-42980	52620	60
F67 258	-24	54.6	151	48.3	67	6	14	9.00	-55.05	30180	29810	4720	-43260	52750	70
F67 259	-24	59.0	151	56.9	67	6	14	9.55	-54.35	30470	30050	5050	-42530	52320	70
F67 260	-25	7.2	152	0.2	67	6	14	9.95	-55.00	30280	29740	5220	-43180	52700	40
F67 261	-25	12.8	152	6.7	67	6	14	9.30	-54.80	30290	29890	4860	-43030	52630	100
F67 262	-25	14.2	152	16.2	67	6	15	9.55	-55.00	30290	29870	5030	-43290	52840	90
F67 263	-25	17.5	152	24.8	67	6	15	9.50	-54.90	30380	29970	5010	-43300	52910	20
F67 264	-25	19.8	152	34.5	67	6	15	9.60	-54.95	30380	29960	5060	-43380	52970	20
F67 265	-25	28.6	152	39.7	67	6	15	9.70	-55.20	30250	29810	5110	-43620	53090	10
F67 266	-25	38.9	152	38.6	67	6	15	9.30	-55.90	29920	29530	4630	-44280	53450	60
F67 267	-25	47.0	152	36.8	67	6	15	9.80	-55.95	29980	29540	5100	-44280	427350	90
F67 268	-25	56.3	152	36.5	67	6	15	9.80	-56.25	29520	29090	5030	-44240	53200	70
F67 269	-26	3.8	152	35.4	67	6	15	10.40	-55.70	29870	29380	5400	-43850	53060	70
F67 270	-26	10.4	152	38.7	67	6	15	9.95	-55.75	29950	29500	5180	-44070	53290	80
F67 271	-26	17.5	152	42.7	67	6	15	9.65	-55.95	29840	29420	5010	-44210	53340	80
F67 272	-26	23.5	152	51.7	67	6	15	9.75	-56.05	29720	29290	5030	-44250	53310	140
F67 273	-26	31.0	152	57.1	67	6	16	10.05	-55.90	29650	29400	5210	-44180	53330	50
F67 274	-26	39.7	152	58.0	67	6	16	10.05	-56.40	29680	29220	5170	-44720	53680	30
F67 275	-26	48.6	152	58.0	67	6	16	9.90	-56.80	29370	28930	5050	-45000	53750	30
F67 276	-26	57.9	152	57.1	67	6	16	10.10	-56.70	29370	28910	5160	-44800	53570	90
F67 277	-27	7.0	152	56.8	67	6	16	10.05	-56.90	29380	28930	5130	-45160	53890	30
F67 278	-27	16.0	152	58.7	67	6	16	10.35	-56.95	29380	28900	5290	-45270	53970	30
F67 279	-27	36.1	152	52.3	67	6	24	10.90	-57.70	29280	28760	5530	-46390	54870	30
F67 280	-27	34.5	152	40.0	67	6	24	10.75	-57.50	29110	28600	5420	-45730	54220	80
F67 281	-27	32.9	152	29.6	67	6	24	10.05	-57.55	29080	28640	5070	-45860	54310	80
F67 282	-27	32.7	152	19.7	67	6	24	10.30	-57.65	29010	28550	5190	-45880	54290	90
F67 283	-27	34.0	152	10.5	67	6	24	10.15	-57.65	29020	28570	5100	-45860	54280	120
F67 284	-27	33.3	152	0.6	67	6	24	10.10	-57.65	28970	28520	5070	-45790	54190	240
F67 285	-27	43.0	151	54.5	67	6	24	9.90	-57.90	28950	28520	4980	-46230	54550	900
F67 286	-27	52.0	151	57.0	67	6	24	10.00	-58.10	28730	28300	5000	-46200	54420	380
F67 287	-28	0.9	151	59.4	67	6	24	9.65	-58.20	29200	28780	4910	-47200	55510	470
F67 288	-28	24.6	150	17.0	67	6	24	10.40	-58.10	29180	28700	5280	-46990	55330	220
F67 289	-27	29.9	151	48.2	67	6	26	10.10	-57.40	29170	28710	5120	-45660	54190	460
F67 290	-27	24.7	151	40.3	67	6	27	10.15	-57.45	29130	28680	5120	-45700	54200	400
F67 291	-27	19.3	151	31.0	67	6	27	10.20	-57.45	29110	28650	5140	-45700	54190	370
F67 292	-27	15.3	151	21.0	67	6	27	10.00	-57.45	29120	28680	5060	-45740	54230	390
F67 293	-27	13.6	151	11.0	67	6	27	10.10	-57.35	29200	28750	5110	-45640	54190	340
F67 294	-27	16.6	151	2.1	67	6	27	10.00	-57.50	29150	28710	5070	-45790	54290	330
F67 295	-27	20.1	150	51.0	67	6	27	9.95	-57.60	29050	28610	5030	-45810	54260	370
F67 296	-27	28.0	150	44.2	67	6	27	10.15	-57.70	29010	28550	5110	-45930	54330	270
F67 297	-27	32.8	150	35.6	67	6	27	10.30	-57.90	28870	28410	5170	-46110	54410	330
F67 298	-27	38.5	150	27.9	67	6	27	10.35	-58.10	28810	28340	5180	-46320	54560	340
F67 299	-27	45.4	150	22.6	67	6	27	10.30	-58.20	28780	28310	5190	-46520	54710	300

STATION	LAT		LONG		Y	M	D	D DEG	TABLE 1 SHEET 6		X	Y	Z	F	EL MFTRES
	DEG	MIN	DEG	MIN					DEG	M					
F67 300	-27	54.5	150	20.0	67	6	27	10.35	-58.35	28690	28220	5160	-46630	54750	260
F67 301	-28	9.5	150	17.8	67	6	27	10.60	-58.60	28680	28200	5260	-47070	55130	260
F67 302	-28	14.0	150	16.0	67	6	27	10.65	-58.65	28700	28210	5310	-47210	55260	250
F67 303	-27	50.0	150	7.0	67	6	27	10.05	-58.25	28800	28360	5030	-46640	54820	260
F67 304	-27	53.3	149	59.0	67	6	27	9.85	-58.35	28790	28370	4930	-46790	54950	240
F67 305	-27	55.7	149	50.0	67	6	28	9.90	-58.40	28740	28310	4930	-46820	54940	240
F67 306	-27	54.8	149	38.8	67	6	28	9.85	-58.45	28750	28320	4920	-46920	55040	230
F67 307	-27	58.0	149	29.0	67	6	28	9.60	-58.50	28740	28330	4790	-46990	55090	220
F67 308	-27	59.5	149	16.6	67	6	28	9.50	-58.65	28580	28190	4710	-46950	54970	210
F67 309	-27	58.5	149	6.3	67	6	28	9.40	-58.55	28640	28240	4690	-46930	54990	200
F67 310	-27	56.0	148	56.4	67	6	28	9.35	-58.55	28710	28330	4670	-47000	55080	220
F67 311	-28	0.0	148	45.1	67	6	28	9.20	-58.45	28760	28390	4600	-46920	55040	210
F67 312	-27	51.9	148	29.8	67	6	28	9.65	-58.45	28690	28280	4610	-46810	54900	220
F67 313	-27	43.5	148	28.0	67	6	28	9.05	-58.35	28870	28520	4530	-46930	55110	230
F67 314	-27	35.4	148	24.7	67	6	28	9.10	-58.10	28990	28620	4570	-46620	54900	240
F67 315	-27	30.8	148	16.5	67	6	28	9.00	-58.00	28980	28620	4550	-46480	54780	250
F67 316	-27	26.2	148	8.0	67	6	28	9.10	-57.95	29000	28630	4600	-46400	54730	260
F67 317	-27	16.6	148	3.3	67	6	28	9.10	-57.80	29080	28710	4610	-46280	54660	270
F67 318	-27	8.3	148	2.6	67	6	29	8.90	-57.65	29170	28820	4520	-46130	54590	280
F67 319	-27	8.7	147	52.5	67	6	29	9.00	-57.70	29140	28780	4570	-46180	54610	290
F67 320	-27	11.8	147	43.5	67	6	29	8.80	-57.75	29090	28750	4440	-46180	54580	320
F67 321	-27	14.3	147	35.0	67	6	29	9.00	-57.80	29080	28720	4560	-46300	54690	230
F67 322	-27	20.2	147	27.0	67	6	29	9.00	-57.95	29000	28640	4540	-46360	54690	230
F67 323	-27	19.5	147	16.5	67	6	29	9.05	-57.95	28980	28620	4550	-46390	54710	230
F67 324	-27	17.5	147	7.0	67	6	29	9.10	-57.95	28990	28630	4570	-46420	54740	270
F67 325	-27	50.4	146	53.5	67	6	29	9.25	-58.70	28610	28230	4600	-47150	55160	180
F67 326	-27	41.3	146	51.4	67	6	29	9.20	-58.60	28750	28380	4600	-47210	55280	190
F67 327	-27	31.5	146	52.5	67	6	29	8.90	-58.20	29020	28670	4500	-46880	55140	210
F67 328	-27	23.4	146	54.4	67	6	30	8.95	-58.10	29010	28650	4520	-46650	54940	230
F67 329	-27	14.4	146	51.8	67	6	30	8.70	-57.85	29150	28810	4400	-46410	54810	240
F67 330	-27	7.5	146	46.6	67	6	30	8.80	-57.75	29130	28790	4460	-46270	54690	260
F67 331	-27	1.3	146	40.2	67	6	30	8.95	-57.80	29080	28720	4520	-46250	54640	310
F67 332	-26	52.5	146	35.5	67	6	30	8.85	-57.70	29180	28830	4490	-46230	54680	320
F67 333	-26	46.3	146	28.0	67	6	30	8.80	-57.50	29300	28950	4470	-46070	54600	320
F67 334	-26	35.3	146	28.5	67	6	30	8.90	-57.25	29470	29110	4560	-45900	54550	340
F67 335	-26	26.7	146	17.5	67	6	30	8.50	-57.20	29520	29200	4350	-45880	54570	310
F67 336	-26	35.7	146	11.9	67	6	30	8.35	-57.40	29400	29080	4280	-46030	54620	290
F67 337	-26	44.5	146	7.9	67	7	1	8.30	-57.55	29290	28980	4230	-46160	54670	280
F67 338	-26	51.3	146	3.5	67	7	1	8.35	-57.70	29200	28900	4230	-46280	54730	260
F67 339	-26	59.3	145	59.3	67	7	1	8.40	-57.90	29090	28780	4260	-46420	54790	250
F67 340	-27	7.5	145	57.3	67	7	1	8.45	-58.05	28970	28660	4270	-46520	54810	240
F67 341	-27	16.1	145	58.3	67	7	1	8.55	-58.10	28950	28630	4300	-46610	54880	240
F67 342	-27	25.0	145	55.0	67	7	1	8.55	-58.25	28950	28630	4300	-46830	55060	220
F67 343	-27	33.9	145	52.1	67	7	1	8.60	-58.55	28760	28440	4290	-47080	55180	210
F67 344	-27	42.3	145	50.5	67	7	1	8.35	-58.70	28750	28440	4170	-47330	55380	200
F67 345	-27	49.1	145	43.8	67	7	1	8.25	-58.85	28600	28300	4100	-47420	55380	200
F67 346	-27	57.3	145	42.0	67	7	1	8.30	-59.00	28470	28170	4110	-47460	55350	190
F67 347	-28	1.8	145	5.0	67	7	2	8.30	-59.05	28460	28170	4100	-47570	55450	160
F67 348	-27	53.6	145	7.8	67	7	2	8.50	-58.90	28600	28280	4230	-47450	55410	160
F67 349	-27	45.2	145	7.5	67	7	2	8.40	-58.75	28650	28350	4180	-47260	55280	180
F67 350	-27	36.0	145	9.5	67	7	2	8.30	-58.50	28760	28460	4160	-47000	55120	200
F67 351	-27	28.2	145	12.9	67	7	2	8.30	-58.40	28810	28510	4150	-46880	55030	190
F67 352	-27	18.9	145	9.0	67	7	2	8.25	-58.25	28840	28560	4150	-46720	54920	190
F67 353	-27	10.8	145	5.9	67	7	2	8.20	-58.10	28940	28670	4140	-46630	54900	200
F67 354	-27	2.0	145	6.9	67	7	2	8.30	-57.90	29050	28750	4180	-46430	54780	200
F67 355	-26	52.8	145	8.4	67	7	2	8.20	-57.80	29110	28820	4150	-46270	54670	230
F67 356	-26	49.2	144	59.5	67	7	2	8.25	-54.50	29140	28840	4180	-46300	54700	250
F67 357	-26	52.5	144	48.8	67	7	2	8.25	-57.85	29080	28780	4180	-46360	54730	250
F67 358	-26	52.5	144	39.8	67	7	3	8.10	-57.90	29080	28790	4090	-46390	54760	230
F67 359	-26	48.6	144	31.3	67	7	3	8.00	-57.80	29130	28840	4060	-46330	54730	210

STATION	LAT		LONG		Y	M	D	D DEG	TABLE 1 SHEET 7		X	Y	Z	F	EL METRES
	DEG	MIN	DEG	MIN					I DEG	N					
F67 360	-26	43.4	144	23.3	67	7	3	8.05	-57.65	29200	28920	4080	-46220	54680	190
F67 361	-26	50.6	144	18.1	67	7	3	8.10	-57.85	29120	28830	4100	-46380	54780	170
F67 362	-26	59.5	144	21.9	67	7	3	8.10	-57.95	29070	28780	4090	-46500	54840	180
F67 363	-27	7.3	144	22.5	67	7	3	8.15	-58.10	28990	28700	4120	-46670	54950	170
F67 364	-27	14.6	144	20.2	67	7	3	8.20	-58.25	28910	28610	4120	-46840	55050	160
F67 365	-27	21.6	144	13.0	67	7	3	8.05	-58.45	28830	28550	4040	-47050	55190	180
F67 366	-27	27.0	144	5.5	67	7	4	8.15	-58.50	28830	28540	4100	-47140	55260	160
F67 367	-27	35.7	144	4.0	67	7	4	8.15	-58.70	28710	28420	4080	-47320	55350	150
F67 368	-27	43.5	143	59.2	67	7	4	8.20	-58.80	28690	28360	4070	-47430	55420	150
F67 369	-27	49.7	143	50.3	67	7	4	8.15	-58.80	28680	28390	4080	-47430	55440	140
F67 370	-27	41.6	143	41.6	67	7	4	7.95	-58.80	28660	28380	3960	-47390	55390	170
F67 371	-27	17.5	142	43.7	67	7	5	7.85	-58.55	28770	28500	3940	-47110	55210	120
F67 372	-27	6.5	142	50.4	67	7	5	8.05	-58.65	28690	28410	4010	-47210	55250	130
F67 373	-27	0.0	142	57.2	67	7	5	7.75	-58.20	28970	28700	3910	-46770	55020	140
F67 374	-26	51.2	142	56.3	67	7	5	7.70	-58.00	29060	28790	3890	-46620	54940	150
F67 375	-26	35.7	143	39.1	67	7	5	7.40	-58.00	28970	28730	3740	-46430	54740	170
F67 376	-26	39.1	143	30.0	67	7	6	7.35	-57.75	29200	28950	3740	-46320	54760	160
F67 377	-26	39.6	143	19.8	67	7	6	7.20	-57.75	29190	28960	3650	-46330	54780	150
F67 378	-26	43.7	143	8.8	67	7	6	7.15	-57.80	29150	28930	3620	-46420	54820	160
F67 379	-26	48.1	142	48.8	67	7	6	7.00	-57.95	29080	28870	3550	-46560	54910	160
F67 380	-26	46.3	142	38.8	67	7	6	7.10	-57.95	29090	28870	3590	-46580	54920	160
F67 381	-26	40.0	142	32.6	67	7	6	7.10	-57.85	29140	28920	3600	-46460	54850	160
F67 382	-26	36.8	142	24.4	67	7	6	7.10	-57.80	29180	28960	3600	-46420	54830	150
F67 383	-26	30.8	142	16.0	67	7	6	7.10	-57.70	29240	29010	3610	-46350	54810	150
F67 384	-26	21.9	142	16.9	67	7	6	7.10	-57.50	29340	29110	3630	-46140	54690	150
F67 385	-26	13.2	142	17.5	67	7	7	7.00	-57.30	29450	29230	3580	-45980	54610	150
F67 386	-26	4.8	142	20.6	67	7	7	7.05	-57.20	29480	29260	3620	-45820	54490	150
F67 387	-25	56.5	142	22.2	67	7	8	6.85	-57.05	29540	29330	3520	-45630	54360	170
F67 388	-25	57.2	142	32.2	67	7	8	7.05	-57.05	29530	29300	3630	-45660	54380	150
F67 389	-25	54.5	142	43.2	67	7	8	7.00	-57.05	29550	29330	3590	-45630	54370	150
F67 390	-26	19.3	146	5.7	67	7	12	7.90	-57.05	29560	29280	4060	-45650	54400	310
F67 391	-26	12.7	145	57.3	67	7	12	7.90	-56.90	29600	29320	4080	-45450	54240	310
F67 392	-26	9.3	145	47.2	67	7	12	8.10	-56.85	29600	29300	4180	-45410	54210	310
F67 393	-26	6.6	145	37.9	67	7	12	8.05	-56.90	29600	29310	4130	-45450	54240	320
F67 394	-26	3.0	145	27.9	67	7	13	8.00	-56.85	29580	29300	4120	-45410	54200	340
F67 395	-26	0.8	145	17.0	67	7	13	7.75	-56.85	29620	29350	4010	-45450	54260	350
F67 396	-26	0.1	145	6.2	67	7	13	7.70	-56.90	29600	29330	3970	-45500	54290	350
F67 397	-25	59.1	144	57.3	67	7	13	7.35	-56.95	29540	29300	3780	-45510	54270	310
F67 398	-25	57.7	144	46.2	67	7	13	7.35	-56.85	29590	29330	3880	-45390	54190	270
F67 399	-25	54.6	144	34.0	67	7	13	7.45	-56.75	29650	29400	3890	-45300	54150	240
F67 400	-25	58.8	144	25.5	67	7	13	7.50	-56.85	29600	29350	3860	-45390	54200	230
F67 401	-26	4.6	144	18.5	67	7	13	7.60	-56.95	29550	29290	3900	-45520	54280	220
F67 402	-26	14.0	144	19.0	67	7	13	7.65	-57.15	29460	29200	3920	-45710	54390	210
F67 403	-26	23.0	144	18.5	67	7	13	7.65	-57.30	29390	29130	3920	-45870	54490	210
F67 404	-26	30.3	144	17.6	67	7	13	7.60	-57.45	29320	29060	3890	-46020	54580	200
F67 405	-26	15.7	145	31.2	67	7	13	8.15	-57.05	29540	29240	4180	-45660	54390	330
F67 406	-26	25.8	145	29.9	67	7	14	8.00	-57.35	29380	29100	4090	-45900	54510	330
F67 407	-26	34.5	145	30.3	67	7	14	7.85	-57.55	29230	28960	3990	-46030	54540	320
F67 408	-26	41.1	145	24.4	67	7	14	7.75	-57.60	29140	28880	3930	-46000	54460	270
F67 409	-26	48.4	145	20.9	67	7	14	7.85	-57.65	29150	28870	3990	-46120	54560	240
F67 410	-26	46.5	145	30.3	67	7	14	7.85	-57.65	29110	28840	3960	-46050	54490	380
F67 411	-26	42.4	145	39.9	67	7	14	7.85	-57.65	29170	28900	4000	-46160	54620	300
F67 412	-26	38.0	145	48.5	67	7	14	8.05	-57.50	29310	29030	4100	-46060	54610	300
F67 413	-26	33.8	145	57.5	67	7	14	8.05	-57.35	29360	29070	4100	-45890	54490	310
F67 414	-26	25.2	146	27.3	67	7	14	8.40	-57.10	29520	29190	4420	-45700	54410	370
F67 415	-26	24.9	146	38.4	67	7	14	8.50	-56.90	29580	29260	4380	-45470	54260	400
F67 416	-26	24.5	146	49.5	67	7	15	8.45	-56.95	29550	29230	4350	-45450	54220	380
F67 417	-26	25.6	146	59.7	67	7	15	8.55	-56.90	29550	29220	4400	-45430	54200	380
F67 418	-26	30.8	147	7.7	67	7	15	8.60	-57.05	29510	29180	4410	-45580	54310	460
F67 419	-26	40.4	147	9.8	67	7	15	8.50	-57.15	29420	29090	4350	-45650	54320	410

TABLE 1 SHEET 8

STATION	LAT DEG MIN	LONG DEG MIN	Y	M	D	D DEG	I DEG	N	X	Y	Z	F	EL METRES
F67 420	-26 49.1	147 7.4	67	7	19	8.30	-57.50	29200	28950	4210	-46010	54530	360
F67 421	-26 57.0	147 1.3	67	7	19	8.50	-57.50	29200	28940	4310	-46050	54570	340
F67 422	-27 8.2	146 58.3	67	7	19	8.60	-58.25	28800	28560	4310	-46720	54940	270
F67 423	-27 50.9	146 43.8	67	7	18	9.30	-58.45	28810	28440	4690	-46980	55130	240
F67 424	-27 41.0	146 49.5	67	7	18	8.75	-58.15	28800	28540	4400	-46920	54760	210
F67 425	-27 31.4	146 48.9	67	7	18	8.80	-57.75	29110	28770	4490	-46250	54650	230
F67 426	-27 22.3	146 52.5	67	7	19	8.50	-57.80	29030	28710	4300	-46150	54530	240
F67 427	-27 19.1	146 57.1	67	7	19	8.25	-57.65	29000	28780	4170	-46030	54490	290
F67 428	-27 9.6	149 4.3	67	7	19	8.65	-57.65	29190	28860	4380	-46130	54600	290
F67 429	-27 12.0	149 13.6	67	7	19	8.80	-57.60	29210	28860	4470	-46090	54580	270
F67 430	-27 12.9	149 23.8	67	7	19	9.00	-57.65	29100	28800	4570	-46070	54530	290
F67 431	-27 15.2	149 34.2	67	7	19	8.90	-57.75	29130	28770	4510	-46210	54630	290
F67 432	-27 17.0	149 45.2	67	7	19	9.25	-57.65	29100	28780	4670	-46150	54600	290
F67 433	-27 21.0	149 52.5	67	7	19	9.30	-57.75	29100	28720	4690	-46220	54630	280
F67 434	-27 28.3	149 46.8	67	7	19	9.30	-57.90	28990	28610	4690	-46330	54660	290
F67 435	-27 36.8	149 45.5	67	7	19	9.50	-58.00	28900	28560	4780	-46460	54790	290
F67 436	-27 45.9	149 39.2	67	7	19	9.70	-58.20	28920	28500	4880	-46710	54950	260
F67 437	-27 23.5	151 59.7	67	7	19	9.95	-57.20	29300	28940	5090	-45670	54310	580
F67 438	-27 15.3	152 3.1	67	7	19	9.75	-57.15	29240	28820	4990	-45970	53590	570
F67 439	-27 8.7	151 57.0	67	7	20	9.65	-56.95	29350	28930	4920	-45910	53690	470
F67 440	-27 3.4	151 49.0	67	7	20	9.75	-56.90	29450	29030	4980	-45260	54010	500
F67 441	-26 54.8	151 49.9	67	7	20	9.00	-57.00	29400	29100	4620	-45970	54190	610
F67 442	-26 50.5	151 58.8	67	7	20	9.05	-56.80	29240	28880	4600	-44760	53480	460
F67 443	-26 41.4	151 59.8	67	7	20	9.35	-56.65	29480	29090	4800	-44890	53710	380
F67 444	-26 31.7	152 0.6	67	7	20	9.50	-56.30	29760	29350	4920	-44700	53710	340
F67 445	-26 22.8	152 3.0	67	7	20	9.80	-56.10	29720	29290	5070	-44320	53380	320
F67 446	-26 13.0	152 4.8	67	7	20	10.05	-56.35	29730	29270	5180	-44700	53690	310
F67 447	-26 6.6	152 13.3	67	7	20	9.35	-55.85	29870	29470	4850	-44060	53240	150
F67 448	-26 4.0	152 23.8	67	7	20	9.35	-56.05	29900	29500	4860	-44450	53580	100
F67 449	-26 14.2	151 54.5	67	7	20	9.70	-55.95	29820	29400	5030	-44210	53340	310
F67 450	-26 22.2	151 47.0	67	7	21	9.60	-56.15	29590	29180	4930	-44220	53220	400
F67 451	-26 22.3	151 37.5	67	7	21	9.55	-56.15	29740	29330	4930	-44430	53470	430
F67 452	-26 21.2	151 27.2	67	7	21	9.35	-56.20	29700	29310	4820	-44440	53460	390
F67 453	-26 23.6	151 17.9	67	7	21	9.50	-56.30	29670	29260	4900	-44600	53570	360
F67 454	-26 28.5	151 9.0	67	7	21	9.95	-56.35	29650	29210	5120	-44660	53620	370
F67 455	-26 37.9	151 5.6	67	7	21	9.70	-56.45	29830	29400	5020	-45020	54010	370
F67 456	-26 40.7	150 55.3	67	7	21	9.90	-57.05	29320	28880	5040	-45350	54010	340
F67 457	-26 41.7	150 44.3	67	7	21	9.15	-57.05	29360	28980	4670	-45370	54050	310
F67 458	-26 50.8	150 47.5	67	7	21	9.65	-57.00	29390	28970	4940	-45300	54010	320
F67 459	-26 55.8	150 55.2	67	7	21	10.00	-56.90	29480	29030	5120	-45300	54060	320
F67 460	-27 3.0	150 46.2	67	7	21	9.85	-57.30	29240	28810	5000	-45580	54160	330
F67 461	-27 9.8	150 39.5	67	7	21	10.10	-57.45	29180	28730	5110	-45780	54300	340
F67 462	-27 14.2	150 31.3	67	7	21	9.90	-57.50	29190	28750	5010	-45930	54430	320
F67 463	-27 15.5	150 19.7	67	7	21	9.90	-57.50	29260	28860	4830	-45970	54500	310
F67 464	-27 15.0	150 8.3	67	7	21	9.45	-57.55	29200	28810	4790	-46040	54530	280
F67 465	-27 14.0	149 58.8	67	7	22	9.25	-57.60	29180	28800	4700	-46080	54550	280
F67 466	-27 3.0	150 0.0	67	7	22	9.30	-57.35	29340	28960	4730	-45820	54420	280
F67 467	-26 57.3	150 8.1	67	7	22	9.35	-57.20	29380	28990	4780	-45640	54290	280
F67 468	-26 49.0	150 9.9	67	7	22	9.30	-57.00	29470	29080	4780	-45460	54190	300
F67 469	-26 40.4	150 11.2	67	7	22	9.20	-56.90	29470	29090	4720	-45290	54040	300
F67 470	-26 38.8	150 0.8	67	7	22	9.35	-56.95	29420	29030	4770	-45270	54000	330
F67 471	-26 38.8	149 50.5	67	7	22	9.30	-56.90	29510	29120	4770	-45370	54130	350
F67 472	-26 38.8	149 40.0	67	7	22	9.15	-57.10	29420	29040	4680	-45560	54240	330
F67 473	-26 37.6	149 28.8	67	7	22	8.90	-56.95	29510	29150	4560	-45460	54200	320
F67 474	-26 36.0	149 18.2	67	7	22	8.80	-57.00	29470	29120	4510	-45490	54210	320
F67 475	-26 35.3	149 8.2	67	7	22	8.55	-56.85	29510	29180	4390	-45260	54040	320
F67 476	-26 35.3	148 58.0	67	7	22	8.85	-56.80	29590	29240	4560	-45270	54090	310
F67 477	-26 44.0	148 54.0	67	7	23	8.80	-56.90	29620	29270	4530	-45520	54320	280
F67 478	-26 52.2	148 58.5	67	7	23	8.75	-57.20	29450	29110	4480	-45820	54480	260
F67 479	-26 59.0	149 4.5	67	7	23	8.60	-57.40	29240	28910	4360	-45790	54340	250

TABLE 1 SHEET 9

STATION	LAT DEG MIN	LONG DEG MIN	Y	M	D	D DEG	I DEG	M	X	Y	Z	F	EL METRES
F67 480	-27 14.0	148 49.5	67	7	23	8.80	-57.70	29030	28690	4440	-46020	54420	240
F67 481	-27 15.1	148 34.5	67	7	23	8.85	-57.70	29040	28730	4480	-46090	54510	260
F67 482	-27 12.5	148 23.8	67	7	23	8.95	-57.75	29070	28720	4530	-46130	54540	280
F67 483	-27 9.1	148 14.7	67	7	23	8.90	-57.80	28980	28630	4490	-46080	54440	340
F67 484	-27 0.0	148 4.2	67	7	23	8.80	-57.50	29250	28910	4470	-45980	54500	290
F67 485	-26 51.6	148 2.3	67	7	23	8.75	-57.30	29350	29010	4480	-45810	54410	310
F67 486	-26 41.5	148 0.6	67	7	23	8.70	-57.10	29420	29080	4460	-45580	54260	320
F67 487	-26 32.8	147 59.7	67	7	23	8.65	-56.95	29500	29170	4450	-45440	54190	340
F67 488	-26 29.2	147 51.0	67	7	24	8.60	-56.90	29510	29180	4410	-45360	54130	370
F67 489	-26 28.7	147 41.3	67	7	24	8.55	-56.90	29540	29210	4400	-45380	54160	420
F67 490	-26 26.7	147 32.0	67	7	24	8.65	-56.95	29510	29180	4440	-45430	54190	430
F67 491	-26 26.0	147 22.0	67	7	24	8.30	-57.05	29490	29180	4250	-45580	54300	440
F67 492	-26 23.7	147 12.9	67	7	24	8.35	-56.90	29500	29190	4280	-45360	54120	430
F67 493	-26 16.1	146 59.6	67	7	24	8.45	-56.85	29550	29230	4350	-45290	54090	400
F67 494	-26 8.0	146 54.0	67	7	24	8.40	-56.70	29600	29290	4320	-45180	54020	400
F67 495	-26 2.6	146 46.0	67	7	24	8.35	-56.60	29670	29360	4300	-45090	53980	430
F67 496	-25 56.4	146 39.1	67	7	24	8.30	-56.50	29700	29390	4300	-44970	53910	390
F67 497	-25 48.5	146 35.2	67	7	24	8.40	-56.35	29780	29460	4360	-44800	53800	390
F67 498	-25 57.2	146 28.5	67	7	24	8.50	-56.65	29720	29390	4390	-45200	54100	390
F67 499	-26 5.4	146 25.1	67	7	24	8.50	-56.75	29680	29350	4400	-45330	54190	340
F67 500	-26 14.3	146 19.4	67	7	24	8.25	-56.90	29620	29310	4260	-45510	54300	320
F67 501	-25 58.0	145 36.5	67	7	26	7.95	-56.85	29570	29290	4100	-45340	54140	320
F67 502	-25 49.5	145 34.1	67	7	26	8.05	-56.60	29750	29450	4170	-45160	54090	330
F67 503	-25 40.9	145 38.3	67	7	26	7.90	-56.40	29860	29580	4110	-45040	54050	340
F67 504	-25 28.8	145 44.8	67	7	26	7.90	-56.05	30020	29740	4140	-44650	53820	340
F67 505	-25 20.0	145 43.5	67	7	26	7.95	-55.90	30070	29780	4150	-44480	53700	380
F67 506	-25 12.2	145 46.5	67	7	26	8.00	-55.75	30140	29840	4190	-44310	53600	400
F67 507	-25 3.1	145 50.5	67	7	26	7.90	-55.65	30160	29870	4150	-44200	53510	380
F67 508	-24 56.4	145 59.0	67	7	26	7.95	-55.35	30360	30070	4190	-43980	53450	420
F67 509	-24 51.4	146 10.3	67	7	26	7.95	-55.25	30370	30070	4210	-43830	53330	420
F67 510	-24 43.4	146 1.0	67	7	26	7.85	-55.10	30400	30120	4140	-43650	53200	410
F67 511	-24 37.2	145 51.0	67	7	27	7.85	-55.00	30430	30140	4140	-43530	53120	390
F67 512	-24 30.5	145 44.5	67	7	27	7.85	-54.95	30450	30160	4150	-43480	53090	340
F67 513	-24 28.0	145 34.3	67	7	27	7.80	-54.85	30520	30230	4140	-43450	53100	310
F67 514	-24 24.3	145 23.5	67	7	27	7.80	-54.85	30540	30260	4140	-43440	53110	270
F67 515	-24 14.8	145 19.8	67	7	27	7.70	-54.75	30560	30290	4100	-43290	53000	270
F67 516	-24 5.6	145 19.0	67	7	27	7.65	-54.50	30710	30440	4090	-43110	52930	280
F67 517	-23 57.2	145 20.7	67	7	27	7.60	-54.35	30790	30520	4080	-42960	52860	280
F67 518	-23 47.2	145 18.4	67	7	27	7.50	-54.10	30870	30610	4030	-42750	52740	280
F67 519	-23 38.1	145 17.0	67	7	27	7.40	-53.85	31000	30740	4000	-42500	52610	270
F67 520	-23 34.0	145 27.3	67	7	27	6.80	-53.75	31080	30860	3680	-42470	52630	280
F67 521	-23 34.4	145 37.1	67	7	27	7.35	-53.85	31080	30820	3980	-42580	52730	300
F67 522	-23 33.9	145 47.2	67	7	27	7.55	-53.80	31030	30760	4090	-42450	52590	300
F67 523	-23 34.8	145 57.0	67	7	27	7.65	-53.90	30880	30600	4110	-42390	52450	390
F67 524	-23 36.1	146 7.0	67	7	28	7.60	-53.95	30890	30610	4080	-42510	52550	390
F67 525	-23 37.4	146 16.2	67	7	28	7.65	-53.95	30890	30610	4120	-42520	52570	430
F67 526	-23 38.0	146 25.5	67	7	28	8.00	-54.00	30850	30590	4280	-42540	52560	390
F67 527	-23 38.8	146 35.4	67	7	28	8.05	-53.90	30940	30630	4330	-42510	52580	380
F67 528	-23 47.9	146 33.2	67	7	28	8.10	-54.10	30860	30590	4390	-42680	52670	370
F67 529	-23 57.8	146 34.5	67	7	28	8.05	-54.25	30730	30420	4290	-42750	52650	400
F67 530	-24 6.3	146 37.8	67	7	28	7.65	-54.40	30720	30430	4190	-42970	52830	440
F67 531	-24 13.0	146 30.4	67	7	28	8.00	-54.60	30530	30230	4250	-43050	52780	490
F67 532	-24 18.3	146 21.5	67	7	28	8.00	-54.70	30480	30180	4240	-43140	52830	490
F67 533	-24 27.2	146 21.2	67	7	28	8.10	-54.80	30490	30190	4290	-43320	52980	460
F67 534	-24 35.5	146 22.3	67	7	28	8.15	-54.95	30410	30100	4300	-43410	53010	490
F67 535	-24 44.3	146 18.9	67	7	28	8.00	-55.10	30400	30100	4240	-43610	53170	490
F67 536	-24 53.9	146 20.0	67	7	28	8.05	-55.25	30370	30070	4260	-43870	53360	430
F67 537	-25 39.3	146 30.5	67	7	28	8.90	-56.20	29910	29580	4410	-44780	53860	410
F67 538	-25 29.8	146 31.7	67	7	28	8.35	-55.95	30040	29720	4370	-44540	53730	420
F67 539	-25 20.3	146 38.5	67	7	29	8.30	-55.90	30100	29790	4350	-44510	53740	420

TABLE 1 SHEET 10

STATION	LAT DEG MIN	LONG DEG MIN	Y M D	D DEG	I DEG	M	X	Y	Z	F	EL METRES
F67 540	-23 11.5	146 29.7	67 7 29	8.25	-55.45	30210	29900	4330	-44240	53560	430
F67 541	-23 3.5	146 26.3	67 7 29	8.05	-55.45	30320	30020	4250	-44120	53540	440
F67 542	-24 55.2	146 30.0	67 7 29	8.15	-55.25	30360	30050	4320	-43860	53350	400
F67 543	-24 53.6	146 39.4	67 7 29	8.15	-55.25	30360	30050	4300	-43870	53340	510
F67 544	-24 49.6	146 49.0	67 7 29	8.25	-55.15	30390	30070	4370	-43750	53270	540
F67 545	-24 44.4	146 58.7	67 7 29	8.20	-55.00	30410	30100	4330	-43460	53090	500
F67 546	-24 34.7	147 4.3	67 7 29	8.20	-54.90	30330	30020	4320	-43260	52840	380
F67 547	-24 27.6	147 9.6	67 7 29	8.15	-54.85	30420	30110	4310	-43290	52920	340
F67 548	-24 25.2	147 18.6	67 7 29	8.30	-54.85	30490	30170	4400	-43350	53010	320
F67 549	-24 19.6	147 27.6	67 7 29	8.55	-54.55	30620	30280	4540	-43050	52830	300
F67 550	-24 15.0	147 37.0	67 7 29	8.50	-54.45	30670	30340	4540	-42980	52810	270
F67 551	-24 10.7	147 45.0	67 7 30	8.95	-54.25	30740	30410	4580	-42760	52680	260
F67 552	-24 8.2	147 54.2	67 7 30	8.35	-54.10	30780	30450	4470	-42550	52520	310
F67 553	-24 7.0	148 4.3	67 7 30	7.95	-54.45	30580	30290	4220	-42890	52680	330
F67 554	-23 58.0	148 7.2	67 7 30	8.60	-54.05	30840	30500	4600	-42570	52580	240
F67 555	-23 49.1	148 7.6	67 7 30	8.60	-53.75	30950	30600	4630	-42240	52380	240
F67 556	-23 40.5	148 9.9	67 7 30	8.50	-53.55	30960	30620	4580	-41980	52170	210
F67 557	-23 31.8	148 9.8	67 7 30	8.50	-53.75	30840	30500	4560	-42130	52220	180
F67 558	-23 34.3	148 19.8	67 7 30	8.45	-53.50	30860	30520	4550	-41790	51960	180
F67 559	-23 36.4	148 30.0	67 7 30	8.35	-53.45	30910	30590	4480	-41800	52000	170
F67 560	-23 36.0	148 40.1	67 7 30	8.35	-53.60	30870	30540	4490	-41910	52060	210
F67 561	-23 35.1	148 50.8	67 7 30	8.30	-53.80	30870	30550	4450	-42220	52310	190
F67 562	-23 35.1	149 0.8	67 7 30	8.05	-53.60	31020	30670	4670	-42110	52310	200
F67 563	-23 36.8	149 12.5	67 7 30	8.65	-53.25	31240	30880	4700	-41910	52280	140
F67 564	-23 27.5	149 16.3	67 7 30	8.85	-53.10	31270	30900	4800	-41720	52150	130
F67 565	-23 19.3	149 20.6	67 7 31	8.80	-52.85	31340	30970	4790	-41450	51970	110
F67 566	-23 12.0	149 15.6	67 7 31	8.75	-52.70	31420	31050	4790	-41290	51890	150
F67 567	-23 4.0	149 20.6	67 7 31	8.60	-52.55	31320	30960	4700	-40950	51560	120
F67 568	-22 56.9	149 26.1	67 7 31	8.35	-52.60	31310	30980	4550	-41000	51600	120
F67 569	-22 48.6	149 25.0	67 7 31	8.55	-52.55	31250	30900	4630	-40890	51470	140
F67 570	-22 41.3	149 17.0	67 7 31	8.25	-52.50	31340	31060	4490	-40940	51600	130
F67 571	-22 32.0	149 12.8	67 7 31	8.20	-52.15	31570	31240	4490	-40680	51500	180
F67 572	-22 24.4	149 7.3	67 7 31	8.15	-51.85	31660	31340	4490	-40360	51300	170
F67 573	-22 1.2	149 13.8	67 7 31	8.00	-51.85	31640	31330	4410	-40330	51270	160
F67 574	-22 0.5	149 0.7	67 7 31	8.05	-51.60	31750	31440	4460	-40100	51150	160
F67 575	-21 57.2	148 56.8	67 7 31	8.05	-51.70	31600	31290	4430	-40100	51060	200
F67 576	-21 36.1	149 2.4	67 8 1	8.10	-50.75	31950	31630	4490	-39190	50570	200
F67 577	-21 46.2	148 56.1	67 8 1	8.15	-51.10	31980	31660	4530	-39690	50900	190
F67 578	-21 47.0	148 45.6	67 8 1	8.25	-51.15	31870	31540	4560	-39660	50880	180
F67 579	-21 38.2	148 41.7	67 8 1	8.15	-51.05	31990	31670	4540	-39620	50930	220
F67 580	-21 32.8	148 31.1	67 8 1	8.20	-50.80	32100	31770	4570	-39400	50830	270
F67 581	-21 34.3	148 22.0	67 8 1	8.15	-50.90	32160	31840	4550	-39640	51060	280
F67 582	-21 33.9	148 11.9	67 8 1	8.10	-50.85	32150	31830	4540	-39970	50990	330
F67 583	-21 31.2	148 1.5	67 8 1	7.95	-50.90	32100	31790	4440	-39590	50980	390
F67 584	-21 32.2	147 51.2	67 8 1	7.80	-50.95	32080	31780	4370	-39630	50990	330
F67 585	-21 29.0	147 42.6	67 8 1	7.95	-50.85	32080	31770	4440	-39440	50850	260
F67 586	-21 31.3	147 32.2	67 8 1	7.85	-51.10	31990	31690	4380	-39680	50980	260
F67 587	-21 27.1	147 25.5	67 8 1	7.55	-51.05	31970	31690	4210	-39620	50910	250
F67 588	-21 20.2	147 19.0	67 8 1	7.50	-50.35	32520	32240	4240	-39300	51020	240
F67 589	-21 11.2	147 15.9	67 8 1	6.40	-50.50	32380	32180	3600	-39360	50980	260
F67 590	-21 3.2	147 17.3	67 8 2	7.55	-50.25	32370	32090	4250	-38960	50660	240
F67 591	-20 56.8	147 23.2	67 8 2	6.50	-50.70	31780	31570	3590	-38870	50220	280
F67 592	-20 47.5	147 22.0	67 8 2	7.55	-50.05	32450	32170	4270	-38790	50590	370
F67 593	-20 41.0	147 30.5	67 8 2	7.85	-49.95	32470	32170	4450	-38670	50500	180
F67 594	-20 32.9	147 32.9	67 8 2	6.40	-49.90	32470	32120	4750	-38590	50440	180
F67 595	-20 30.5	147 41.4	67 8 2	8.60	-50.00	32420	32050	4840	-38720	50510	110
F67 596	-20 32.9	147 50.5	67 8 2	7.80	-49.65	32420	32120	4390	-38210	50110	210
F67 597	-20 24.6	147 51.9	67 8 2	9.10	-49.40	33070	32650	5240	-38660	50880	280
F67 598	-20 18.0	147 55.7	67 8 2	7.95	-48.75	33240	32920	4610	-37970	50470	210
F67 599	-20 11.6	147 53.0	67 8 2	8.90	-48.60	33180	32780	5150	-37700	50230	110

TABLE 1 SHEET 11

STATION	LAT DEG MIN	LONG DEG MIN	Y M D	D DEG	I DEG	N	X	Y	Z	F	EL METRES
F67 000	-20 7.1	148 9.6	67 8 2	7.65	-49.00	32630	32340	4390	-37620	49800	40
F67 001	-21 50.8	148 37.2	67 8 9	8.05	-51.10	32020	31700	4490	-39720	51020	190
F67 002	-21 51.7	148 27.9	67 8 9	8.10	-51.20	32040	31730	4530	-39980	51230	210
F67 003	-21 56.5	148 10.0	67 8 9	7.99	-51.60	31830	31930	4410	-40200	51290	250
F67 004	-22 0.6	148 9.3	67 8 9	7.89	-51.65	31850	31990	4360	-40320	51390	240
F67 005	-22 8.8	148 3.8	67 8 9	7.80	-51.85	31730	31440	4320	-40450	51430	250
F67 006	-22 16.2	147 58.6	67 8 9	7.55	-52.20	31390	31120	4120	-40900	51250	310
F67 007	-22 25.8	147 56.5	67 8 9	7.80	-52.30	31400	31110	4290	-40710	51420	380
F67 008	-22 32.3	147 49.7	67 8 9	8.05	-52.25	31550	31240	4420	-40830	51600	390
F67 009	-22 38.1	147 42.7	67 8 9	7.65	-52.20	31510	31230	4200	-40660	51450	290
F67 010	-22 46.5	147 37.4	67 8 9	7.85	-52.35	31620	31320	4310	-41020	51800	280
F67 011	-22 52.5	147 44.5	67 8 9	7.45	-53.10	31230	30960	4090	-41690	52090	250
F67 012	-22 59.6	147 50.7	67 8 10	8.15	-52.80	31360	31070	4490	-41430	51980	260
F67 013	-23 4.0	147 59.6	67 8 10	7.80	-52.80	31390	31100	4270	-41420	51980	240
F67 014	-23 11.7	148 3.9	67 8 10	7.65	-52.75	31550	31270	4200	-41370	52190	230
F67 015	-23 21.9	148 8.4	67 8 10	8.90	-53.40	31180	30810	4830	-42020	52340	210
F67 016	-23 32.5	147 59.1	67 8 10	8.35	-53.85	31020	30690	4910	-42500	52630	250
F67 017	-23 33.0	147 48.7	67 8 10	8.60	-53.75	31220	30870	4670	-42650	52660	230
F67 018	-23 35.2	147 39.2	67 8 11	7.90	-53.50	31090	30790	4270	-42080	52320	290
F67 019	-23 40.5	147 30.8	67 8 11	7.85	-53.70	30990	30700	4220	-42290	52430	260
F67 020	-23 42.2	147 22.1	67 8 11	8.00	-53.65	31030	30730	4310	-42280	52450	310
F67 021	-23 39.0	147 11.5	67 8 11	8.00	-53.60	31080	30780	4330	-42210	52430	520
F67 022	-23 41.0	147 2.0	67 8 11	8.10	-53.80	31010	30690	4380	-42390	52530	410
F67 023	-23 39.2	146 53.0	67 8 11	8.00	-53.70	31080	30770	4330	-42390	52570	360
F67 024	-23 39.0	146 44.1	67 8 11	8.10	-53.90	30950	30640	4390	-42470	52560	370
F67 025	-23 28.5	146 38.1	67 8 11	8.15	-53.70	31060	30790	4400	-42340	52520	340
F67 026	-23 18.5	146 37.5	67 8 11	8.05	-53.45	31180	30880	4390	-42100	52400	320
F67 027	-23 8.5	146 40.4	67 8 11	7.70	-53.65	30930	30690	4140	-42380	52480	310
F67 028	-23 9.9	146 50.4	67 8 12	8.05	-53.15	31250	30950	4370	-41740	52150	290
F67 029	-23 2.7	146 59.1	67 8 12	8.00	-53.05	31230	30930	4340	-41560	52000	310
F67 030	-22 58.3	147 7.7	67 8 12	7.90	-52.95	31300	31000	4290	-41500	51990	320
F67 031	-22 51.9	147 14.7	67 8 12	8.15	-52.65	31780	31460	4520	-41710	52450	440
F67 032	-22 51.1	147 27.3	67 8 12	7.85	-52.50	31610	31320	4310	-41230	51960	370
F67 033	-22 45.7	147 31.9	67 8 12	7.85	-52.25	31560	31290	4320	-40830	51630	320
F67 034	-22 28.5	147 27.5	67 8 12	7.95	-52.10	31590	31290	4360	-40670	51500	290
F67 035	-22 23.2	147 19.5	67 8 12	8.05	-52.05	31630	31320	4420	-40410	51480	280
F67 036	-22 14.5	147 15.2	67 8 12	7.80	-51.90	31700	31410	4310	-40530	51460	250
F67 037	-22 6.2	147 10.1	67 8 12	7.95	-51.65	31920	31620	4410	-40440	51530	250
F67 038	-21 58.6	147 4.2	67 8 12	8.30	-51.65	31890	31590	4610	-40340	51430	230
F67 039	-21 50.2	147 1.5	67 8 12	8.15	-51.40	32040	31720	4530	-40200	51420	200
F67 040	-21 42.4	146 56.9	67 8 13	7.80	-50.65	32530	32230	4420	-39700	51330	240
F67 041	-21 33.7	146 54.1	67 8 13	7.45	-51.00	32180	31900	4170	-39780	51170	190
F67 042	-21 34.5	146 43.9	67 8 13	7.70	-51.05	32170	31880	4310	-39860	51230	220
F67 043	-21 44.7	146 43.2	67 8 13	7.70	-51.40	32080	31790	4310	-40220	51450	200
F67 044	-21 53.3	146 38.6	67 8 13	7.85	-51.70	31890	31610	4290	-40410	51480	210
F67 045	-22 0.0	146 45.1	67 8 13	7.75	-51.85	31790	31500	4290	-40910	51500	210
F67 046	-22 6.3	146 38.2	67 8 13	7.60	-51.95	31750	31470	4210	-40600	51540	220
F67 047	-22 12.4	146 32.1	67 8 13	7.75	-52.00	31700	31420	4260	-40660	51570	220
F67 048	-22 15.2	146 23.2	67 8 13	7.80	-52.00	31720	31430	4300	-40700	51610	240
F67 049	-22 20.0	146 15.7	67 8 14	7.80	-52.30	31660	31370	4290	-41000	51910	280
F67 050	-22 26.8	146 6.3	67 8 14	7.60	-52.50	31580	31300	4180	-41200	51920	300
F67 051	-22 40.4	146 3.7	67 8 14	7.60	-52.85	31370	31100	4190	-41460	52000	350
F67 052	-22 49.1	146 5.2	67 8 14	7.90	-53.05	31290	31020	4090	-41630	52080	370
F67 053	-22 57.6	146 7.4	67 8 14	7.50	-53.10	31220	30940	4080	-41650	52060	440
F67 054	-23 8.5	146 5.8	67 8 14	7.60	-53.30	31160	30890	4120	-41850	52190	480
F67 055	-23 17.7	146 5.1	67 8 14	7.35	-53.65	31080	30820	3980	-42320	52510	370
F67 056	-23 26.3	146 7.0	67 8 14	7.55	-53.75	31040	30770	4080	-42420	52570	370
F67 057	-23 32.5	145 6.2	67 8 16	7.30	-53.75	31070	30820	3960	-42430	52590	280
F67 058	-23 32.1	144 56.9	67 8 16	7.35	-53.75	31030	30780	3970	-42380	52540	260
F67 059	-23 31.4	144 46.6	67 8 16	7.40	-53.75	31040	30780	3980	-42390	52550	260

STATION	LAT		LONG		Y	M	D	TABLE 1 SWEET 12							SL METRES
	DEG	MIN	DEG	MIN				D DEG	I DEG	H	X	Y	Z	F	
F67 660	-23	30.6	144	36.4	67	8	16	7.40	-93.80	31030	30770	4000	-42430	92580	290
F67 661	-23	28.7	144	27.3	67	8	16	7.25	-93.80	31030	30780	3930	-42450	92590	210
F67 662	-23	43.0	144	29.6	67	8	16	7.30	-94.09	30900	30690	3930	-42710	92720	290
F67 663	-23	52.5	144	28.3	67	8	16	7.25	-94.25	30900	30690	3910	-43020	92970	270
F67 664	-24	1.5	144	29.9	67	8	16	7.20	-94.60	30680	30440	3850	-43210	93000	230
F67 665	-24	11.5	144	28.5	67	8	16	7.35	-94.65	30660	30410	3920	-43320	93060	220
F67 666	-24	20.5	144	29.7	67	8	16	7.40	-94.80	30690	30440	3990	-43590	93320	210
F67 667	-24	30.2	144	27.6	67	8	16	7.45	-95.09	30530	30280	3960	-43780	93390	220
F67 668	-24	40.0	144	28.3	67	8	16	7.40	-95.25	30450	30190	3930	-43990	93510	260
F67 669	-24	38.0	144	37.8	67	8	17	7.90	-95.25	30440	30200	3990	-43980	93510	280
F67 670	-24	35.0	144	46.4	67	8	17	7.60	-95.20	30450	30180	4030	-43890	93430	260
F67 671	-24	33.0	144	55.6	67	8	17	7.65	-95.10	30500	30230	4060	-43830	93410	260
F67 672	-24	30.9	145	4.7	67	8	17	7.75	-95.05	30540	30240	4110	-43760	93370	290
F67 673	-24	28.3	145	14.2	67	8	17	8.15	-94.90	30590	30280	4340	-43610	93280	270
F67 674	-24	38.2	145	17.7	67	8	17	7.95	-95.20	30400	30110	4200	-43830	93350	270
F67 675	-24	48.7	145	17.2	67	8	17	7.95	-95.40	30290	30000	4190	-43990	93410	310
F67 676	-24	58.5	145	16.7	67	8	17	7.95	-95.60	30210	29920	4180	-44170	93520	300
F67 677	-25	8.4	145	14.5	67	8	17	7.80	-95.75	30140	29860	4180	-44330	93620	330
F67 678	-25	17.9	145	8.8	67	8	17	7.85	-95.85	30130	29840	4120	-44530	93770	360
F67 679	-25	25.3	145	1.7	67	8	17	7.75	-96.10	30070	29800	4090	-44860	94010	260
F67 680	-25	32.8	144	52.5	67	8	17	7.55	-96.30	29960	29700	3930	-44990	94060	270
F67 681	-25	39.9	144	38.0	67	8	18	7.60	-96.45	29790	29530	3950	-45030	94000	290
F67 682	-25	52.5	144	17.3	67	8	18	7.75	-96.75	29650	29380	4000	-45270	94130	230
F67 683	-25	49.5	144	6.5	67	8	18	7.70	-96.70	29660	29400	3980	-45270	94130	240
F67 684	-25	47.7	143	57.9	67	8	18	7.70	-96.70	29690	29420	3980	-45250	94130	240
F67 685	-25	47.3	143	44.2	67	8	18	7.60	-96.75	29640	29380	3920	-45290	94130	210
F67 686	-25	44.6	143	33.2	67	8	18	7.50	-96.70	29710	29460	3880	-45290	94180	190
F67 687	-25	15.8	142	39.6	67	8	19	7.35	-96.15	30010	29760	3830	-44840	93960	130
F67 688	-25	6.9	142	39.2	67	8	19	7.25	-96.05	30060	29820	3790	-44700	93880	150
F67 689	-25	0.2	142	47.3	67	8	19	7.20	-95.85	30160	29920	3770	-44550	93800	150
F67 690	-24	49.9	143	2.8	67	8	19	7.40	-95.85	30180	29930	3880	-44250	93570	150
F67 691	-24	43.4	143	12.1	67	8	19	7.25	-95.55	30290	30040	3830	-44190	93580	160
F67 692	-24	34.3	143	15.2	67	8	19	7.20	-95.30	30400	30160	3820	-43980	93470	150
F67 693	-24	25.6	143	17.0	67	8	19	7.20	-95.20	30410	30170	3810	-43840	93360	160
F67 694	-24	19.3	143	9.5	67	8	19	7.10	-95.00	30570	30340	3790	-43700	93340	180
F67 695	-24	18.2	143	0.2	67	8	19	7.10	-95.00	30560	30320	3790	-43680	93320	180
F67 696	-24	19.2	142	50.6	67	8	19	7.10	-95.05	30530	30290	3790	-43730	93340	180
F67 697	-24	14.9	142	41.3	67	8	20	7.10	-95.00	30530	30290	3780	-43650	93270	210
F67 698	-24	9.7	142	32.3	67	8	20	7.10	-94.85	30600	30370	3780	-43550	93230	210
F67 699	-24	7.3	142	23.7	67	8	20	6.60	-94.85	30600	30400	3510	-43510	93200	180
F67 700	-24	12.8	142	16.8	67	8	20	7.00	-94.95	30560	30340	3720	-43640	93290	170
F67 701	-24	20.8	142	10.0	67	8	20	7.05	-95.15	30460	30230	3740	-43810	93360	170
F67 702	-24	28.2	142	1.8	67	8	20	7.05	-95.30	30400	30170	3740	-44000	93490	170
F67 703	-24	32.0	141	53.7	67	8	20	6.85	-95.40	30350	30140	3610	-44070	93520	150
F67 704	-24	37.0	141	44.5	67	8	20	6.85	-95.50	30310	30090	3630	-44210	93610	140
F67 705	-24	39.9	141	36.9	67	8	20	6.80	-95.60	30270	30060	3580	-44310	93670	130
F67 706	-24	49.3	141	28.5	67	8	20	6.80	-95.80	30210	30000	3570	-44490	93780	120
F67 707	-24	37.5	141	25.0	67	8	20	6.80	-95.55	30320	30110	3600	-44260	93660	150
F67 708	-24	27.7	141	23.4	67	8	21	6.80	-95.35	30380	30170	3610	-44030	93500	150
F67 709	-24	18.7	141	15.4	67	8	21	6.80	-95.15	30440	30230	3600	-43750	93310	150
F67 710	-24	9.1	141	6.0	67	8	21	7.15	-94.95	30520	30280	3610	-43610	93240	100
F67 711	-24	1.1	141	10.0	67	8	21	7.00	-94.80	30520	30290	3730	-43310	92990	100
F67 712	-23	51.7	141	12.0	67	8	21	7.45	-94.75	30410	30160	3990	-43060	92730	100
F67 713	-23	42.8	141	8.7	67	8	21	7.70	-94.80	30420	30150	4080	-43210	92850	110
F67 714	-23	35.9	141	13.5	67	8	21	7.45	-94.85	30470	30210	3990	-43060	92760	100
F67 715	-23	32.3	141	23.9	67	8	21	6.75	-94.60	30570	30360	3580	-43100	92850	110
F67 716	-23	25.3	141	30.3	67	8	21	6.75	-94.75	30570	30360	3590	-43320	93030	110
F67 717	-23	17.5	141	37.7	67	8	21	7.35	-94.30	30880	30610	3960	-42990	92920	120
F67 718	-23	10.5	141	43.8	67	8	21	6.90	-93.90	31090	30870	3740	-42720	92840	120
F67 719	-23	2.4	141	47.3	67	8	21	7.25	-93.55	31200	30950	3990	-42330	92600	120

STATION	LAT		LONG		Y	M	D	D DEG.	TABLE 1 SHEET 13		X	Y	Z	F	EL METRES
	DEG	MIN	DEG	MIN					I DEG	M					
F67 720	-22	55.9	141	53.3	67	8	22	7.15	-53.65	30940	30710	3840	-42120	52270	130
F67 721	-22	49.9	142	0.7	67	8	22	6.95	-53.40	31170	30940	3780	-42010	52320	140
F67 722	-22	44.3	142	7.5	67	8	22	7.25	-53.40	31060	30810	3910	-41850	52130	140
F67 723	-22	39.1	142	15.0	67	8	22	7.40	-53.35	31260	31000	4020	-42060	52410	140
F67 724	-22	31.8	142	20.8	67	8	22	7.40	-53.05	31400	31140	4050	-41800	52290	150
F67 725	-22	24.0	142	23.7	67	8	22	7.15	-52.90	31560	31320	3920	-41770	52370	150
F67 726	-22	18.4	142	33.9	67	8	22	7.05	-52.90	31400	31160	3850	-41600	52130	160
F67 727	-22	19.9	142	43.2	67	8	22	7.40	-52.70	31380	31120	4030	-41280	51860	160
F67 728	-22	21.2	142	53.6	67	8	22	7.10	-52.65	31470	31230	3880	-41290	51930	190
F67 729	-22	13.8	143	3.4	67	8	24	6.85	-52.45	31550	31320	3790	-41080	51810	210
F67 730	-22	5.0	143	7.7	67	8	24	6.80	-52.25	31600	31370	3790	-40870	51670	220
F67 731	-21	57.3	143	12.0	67	8	24	6.15	-52.15	31570	31390	3370	-40670	51500	240
F67 732	-21	49.5	143	16.7	67	8	24	6.90	-52.05	31560	31340	3780	-40540	51380	240
F67 733	-21	42.6	143	22.3	67	8	24	6.30	-51.95	31620	31430	3470	-40440	51350	260
F67 734	-21	35.9	143	29.0	67	8	24	6.05	-51.85	31750	31580	3340	-40460	51440	270
F67 735	-21	28.3	143	35.9	67	8	24	6.90	-51.70	31960	31720	3850	-40540	51630	320
F67 736	-21	20.7	143	42.8	67	8	24	7.00	-51.30	32030	31790	3900	-40060	51300	310
F67 737	-21	14.0	143	50.8	67	8	24	6.85	-51.15	32030	31800	3810	-39820	51110	290
F67 738	-21	6.5	143	58.2	67	8	24	7.00	-51.10	32150	31910	3900	-39880	51230	280
F67 739	-20	59.9	144	4.3	67	8	24	6.90	-50.75	32240	32000	3890	-39540	51020	290
F67 740	-20	52.5	143	4.2	67	8	24	6.35	-50.70	32440	32240	3600	-39670	51260	210
F67 741	-21	2.0	143	1.0	67	8	24	6.45	-51.00	32240	32030	3620	-39870	51280	200
F67 742	-21	11.3	142	54.8	67	8	24	6.30	-51.20	32170	31970	3530	-40090	51410	200
F67 743	-21	10.4	142	45.3	67	8	25	6.25	-51.10	32170	31980	3500	-39920	51280	180
F67 744	-21	9.3	142	36.1	67	8	25	6.35	-51.10	32170	31970	3570	-39950	51300	150
F67 745	-21	15.6	142	27.6	67	8	25	6.70	-51.15	32160	31940	3760	-40000	51340	190
F67 746	-21	22.0	142	19.9	67	8	25	6.60	-51.45	32160	31950	3700	-40420	51660	170
F67 747	-21	26.8	142	9.5	67	8	25	6.55	-51.55	32080	31870	3650	-40440	51630	200
F67 748	-21	21.8	142	2.1	67	8	25	6.45	-51.45	32110	31900	3620	-40340	51560	140
F67 749	-21	12.1	141	57.6	67	8	25	6.40	-51.30	32080	31880	3570	-40110	51370	190
F67 750	-21	3.9	141	54.2	67	8	25	6.50	-51.35	32030	31830	3610	-40080	51310	140
F67 751	-20	57.1	141	49.3	67	8	25	6.30	-51.25	32160	31960	3540	-40100	51410	140
F67 752	-20	49.0	141	44.4	67	8	25	6.25	-50.80	32430	32230	3540	-39810	51360	130
F67 753	-21	19.9	141	25.3	67	8	27	6.40	-51.35	32030	31830	3580	-40140	51360	200
F67 754	-21	24.6	141	34.6	67	8	27	6.20	-51.50	32080	31890	3470	-40420	51620	200
F67 755	-21	29.3	141	44.4	67	8	27	6.30	-51.65	32070	31880	3520	-40600	51750	220
F67 756	-21	34.0	141	52.9	67	8	27	6.55	-51.90	31920	31710	3650	-40730	51760	210
F67 757	-21	34.8	142	2.5	67	8	27	6.55	-51.90	31870	31660	3630	-40680	51690	210
F67 758	-21	40.2	142	12.4	67	8	27	6.65	-52.00	31760	31550	3670	-40740	51670	200
F67 759	-21	47.3	142	18.7	67	8	27	6.80	-52.05	31810	31600	3660	-40860	51790	190
F67 760	-21	54.5	142	23.4	67	8	27	6.80	-52.25	31710	31490	3750	-41000	51840	170
F67 761	-21	56.9	142	34.8	67	8	27	6.45	-52.20	31720	31520	3550	-40960	51810	180
F67 762	-21	59.5	142	43.3	67	8	27	6.65	-52.65	31620	31400	3650	-41460	52150	190
F67 763	-22	6.4	142	49.4	67	8	27	7.50	-52.70	31290	31020	4070	-41120	51680	180
F67 764	-22	13.3	142	53.6	67	8	28	7.15	-52.45	31480	31230	3930	-41030	51720	190
F67 765	-22	12.9	142	15.9	67	8	28	7.05	-52.50	31650	31420	3870	-41330	52070	190
F67 766	-22	13.5	142	5.0	67	8	28	6.50	-52.65	31750	31550	3600	-41640	52370	220
F67 767	-22	15.8	141	56.8	67	8	28	6.90	-52.35	31780	31550	3820	-41280	52100	190
F67 768	-22	16.1	141	46.9	67	8	28	6.55	-52.90	31450	31250	3580	-41670	52220	190
F67 769	-22	17.4	141	37.5	67	8	28	6.60	-52.75	31530	31320	3620	-41560	52170	220
F67 770	-22	24.6	141	28.4	67	8	28	6.90	-53.05	31540	31310	3790	-41990	52520	190
F67 771	-22	29.0	141	20.7	67	8	28	6.40	-53.25	31310	31110	3490	-41990	52390	180
F67 772	-22	35.3	141	13.5	67	8	28	5.35	-53.65	30960	30830	2890	-42170	52320	190
F67 773	-22	41.6	141	6.1	67	8	28	6.60	-53.35	31290	31090	3590	-42100	52440	200
F67 774	-22	44.3	140	56.1	67	8	28	6.95	-53.25	31380	31190	3810	-42120	52530	190
F67 775	-22	47.1	140	46.3	67	8	29	7.00	-53.75	31370	31140	3820	-42820	53090	170
F67 776	-22	46.5	140	35.8	67	8	29	6.80	-54.15	30920	30700	3650	-42890	52880	140
F67 777	-22	38.0	140	32.5	67	8	29	6.50	-54.45	30890	30690	3490	-43310	53200	170
F67 778	-22	29.2	140	37.4	67	8	29	6.80	-53.20	31440	31220	3720	-42120	52570	190
F67 779	-22	21.0	140	41.7	67	8	29	6.75	-53.25	31410	31190	3700	-42100	52530	190

TABLE 1 - SHEET 14

STATION	LAT DEG MIN	LONG DEG MIN	Y	M	D	D DEG	I DEG	H	X	Y	Z	F	BL METRES
F67 780	-22 14.0	140 46.8	67	8	29	7.00	-52.80	31620	31380	3860	-41690	52340	210
F67 781	-22 5.3	140 51.7	67	8	29	6.99	-52.49	31660	31490	3600	-41270	52020	220
F67 782	-21 56.2	140 54.1	67	8	29	6.35	-52.35	31720	31530	3920	-41160	51970	240
F67 783	-21 47.2	140 57.5	67	8	29	6.90	-52.70	31630	31430	3580	-41600	52270	270
F67 784	-21 37.0	141 0.7	67	8	29	6.90	-51.80	31930	31720	3620	-40660	51700	230
F67 785	-21 30.0	141 8.1	67	8	29	6.85	-51.90	32050	31820	3830	-40340	51530	200
F67 786	-21 22.4	141 13.3	67	8	30	6.70	-51.69	31790	31570	3710	-40240	51290	180
F67 787	-21 13.6	141 13.8	67	8	30	6.70	-51.49	32040	31840	3750	-40270	51480	170
F67 788	-21 8.3	141 6.2	67	8	30	6.10	-50.95	32390	32210	3440	-40010	51480	160
F67 789	-21 3.1	140 58.5	67	8	30	6.80	-50.95	32330	32100	3830	-39930	51390	200
F67 790	-20 56.2	140 53.2	67	8	30	6.60	-50.89	32410	32260	3740	-39890	51370	290
F67 791	-20 49.0	140 47.9	67	8	30	9.95	-50.70	32420	32240	3370	-39650	51220	290
F67 792	-20 52.0	140 22.2	67	8	30	7.10	-51.05	32390	32140	3990	-40140	51580	260
F67 793	-21 0.0	140 18.1	67	8	30	9.90	-51.30	31870	31720	3040	-39870	51050	280
F67 794	-21 9.0	140 15.3	67	8	31	9.90	-52.49	31750	31610	3040	-41350	52140	270
F67 795	-21 15.0	140 8.5	67	8	31	6.15	-52.39	31870	31690	3410	-41350	52210	300
F67 796	-21 20.9	140 1.7	67	8	31	9.90	-52.65	31210	31090	3210	-40980	51520	320
F67 797	-21 21.8	139 51.3	67	8	31	6.00	-51.99	31600	31430	3300	-40430	51320	360
F67 798	-21 30.3	139 44.5	67	8	31	6.35	-52.29	31220	31020	3490	-40360	51030	340
F67 799	-21 36.6	139 36.4	67	8	31	6.70	-51.85	31750	31530	3710	-40510	51480	440
F67 800	-21 42.3	139 29.7	67	8	31	7.20	-51.95	31780	31530	3980	-40690	51640	340
F67 801	-21 40.0	139 19.0	67	8	31	9.90	-52.29	31680	31530	3030	-40970	51800	320
F67 802	-21 38.5	139 11.0	67	8	31	9.90	-52.15	31730	31560	3270	-40860	51740	300
F67 803	-21 45.6	138 56.1	67	8	31	6.10	-52.40	31660	31480	3360	-41180	51950	240
F67 804	-21 29.0	139 10.4	67	8	31	9.80	-52.29	31590	31430	3180	-40870	51660	280
F67 805	-21 22.0	139 6.2	67	9	1	9.90	-52.10	31830	31660	3280	-40930	51860	270
F67 806	-21 8.5	139 15.0	67	9	1	9.35	-51.75	31900	31760	2960	-40490	51560	300
F67 807	-21 2.3	139 23.3	67	9	1	6.25	-51.60	31930	31740	3470	-40330	51450	330
F67 808	-20 52.6	139 26.8	67	9	1	9.80	-51.15	32300	32190	3160	-40150	51540	420
F67 809	-20 57.0	139 34.7	67	9	3	6.80	-51.00	32400	32170	3830	-40090	51550	440
F67 810	-21 3.9	139 36.9	67	9	3	6.60	-52.15	31990	31780	3660	-41210	52180	430
F67 811	-21 12.2	139 41.5	67	9	3	6.00	-51.35	31830	31660	3320	-39870	51020	400
F67 812	-21 52.3	139 35.0	67	9	3	6.40	-52.15	31700	31500	3540	-40860	51720	310
F67 813	-22 1.8	139 35.0	67	9	3	6.45	-52.35	31640	31440	3560	-41110	51890	260
F67 814	-22 12.2	139 39.1	67	9	3	6.25	-52.55	31630	31440	3450	-41350	52070	290
F67 815	-22 21.4	139 40.2	67	9	3	6.35	-52.85	31520	31330	3500	-41670	52260	290
F67 816	-22 30.0	139 40.6	67	9	3	6.90	-53.00	31490	31290	3590	-41820	52330	230
F67 817	-22 36.3	139 43.2	67	9	3	6.95	-53.20	31340	31130	3580	-41980	52390	200
F67 818	-22 47.6	139 48.0	67	9	4	6.30	-53.35	31230	31040	3420	-42080	52410	170
F67 819	-24 27.3	139 49.2	67	9	4	6.30	-55.65	30170	29990	3310	-44210	53530	120
F67 820	-24 29.2	140 0.3	67	9	4	6.45	-55.70	30160	29960	3400	-44300	53600	110
F67 821	-24 32.6	140 9.0	67	9	4	6.95	-55.75	30080	29890	3420	-44240	53510	110
F67 822	-24 43.2	140 23.8	67	9	4	6.45	-55.75	30190	30000	3400	-44410	53710	100
F67 823	-24 49.6	140 32.7	67	9	4	6.60	-55.90	30170	29970	3460	-44610	53860	80
F67 824	-24 40.5	140 34.3	67	9	4	6.40	-55.65	30240	30050	3380	-44360	53690	80
F67 825	-24 33.1	140 39.0	67	9	4	6.45	-55.70	30120	29930	3380	-44210	53500	80
F67 826	-24 28.3	140 46.9	67	9	4	6.45	-55.50	30290	30060	3390	-44130	53510	80
F67 827	-24 21.3	140 52.1	67	9	5	6.65	-55.35	30340	30140	3500	-44010	53460	90
F67 828	-24 15.0	140 58.0	67	9	5	6.65	-55.15	30440	30230	3530	-43860	53340	90
F67 829	-23 3.1	140 21.8	67	9	5	9.70	-53.70	30890	30700	3050	-42090	52190	140
F67 830	-23 9.3	140 30.6	67	9	5	4.60	-54.10	30690	30590	2490	-42430	52360	160
F67 831	-23 16.7	140 35.6	67	9	5	4.85	-54.90	30310	30210	2450	-43160	52750	140
F67 832	-23 25.6	140 36.6	67	9	5	4.95	-54.65	30700	30590	2640	-43320	53100	130
F67 833	-23 33.7	140 42.2	67	9	5	9.90	-54.75	30660	30500	3190	-43450	53190	130
F67 834	-23 39.6	140 50.5	67	9	5	6.75	-54.95	30520	30310	3580	-43590	53220	120
F67 835	-23 40.5	140 57.6	67	9	5	6.20	-55.90	30150	29970	3260	-43910	53270	110
F67 836	-22 34.0	142 56.2	67	9	7	7.10	-52.85	31380	31140	3890	-41500	52040	200
F67 837	-22 43.7	142 55.0	67	9	7	7.10	-53.05	31270	31030	3880	-41680	52070	200
F67 838	-22 51.4	142 50.0	67	9	7	7.05	-53.25	31220	30980	3830	-41910	52260	200
F67 839	-23 3.9	142 47.0	67	9	7	6.95	-53.90	31120	30890	3770	-42160	52410	230

STATION	LAT DEG MIN	LONG DEG MIN	Y	M	D	D DEG	TABLE 1 SHEET 15		X	Y	Z	F	BL METRES
							I DEG	H					
F67 840	-23 13.2	142 52.0	67	9	7	7.00	-53.65	31080	30840	3770	-42320	52520	220
F67 841	-23 21.3	142 55.0	67	9	8	7.00	-53.85	31030	30800	3780	-42540	52660	220
F67 842	-23 28.5	142 57.0	67	9	8	7.00	-54.05	30930	30780	3760	-42740	52760	210
F67 843	-23 34.1	143 6.1	67	9	8	7.00	-54.10	30900	30670	3760	-42760	52770	210
F67 844	-23 43.2	143 6.8	67	9	8	7.00	-54.20	30910	30680	3760	-42930	52910	190
F67 845	-23 53.0	143 8.7	67	9	8	7.05	-54.40	30800	30560	3780	-43120	53000	210
F67 846	-24 2.3	143 8.3	67	9	9	6.50	-54.70	30630	30430	3470	-43310	53050	160
F67 847	-24 16.7	143 21.1	67	9	9	7.20	-54.95	30590	30340	3840	-43640	53300	170
F67 848	-24 7.4	143 24.0	67	9	9	7.20	-54.75	30640	30400	3840	-43420	53150	180
F67 849	-23 58.2	143 29.0	67	9	9	7.20	-54.60	30710	30470	3840	-43250	53050	160
F67 850	-23 53.2	143 37.7	67	9	9	7.20	-54.45	30760	30520	3860	-43100	52960	160
F67 851	-23 48.5	143 46.0	67	9	9	7.25	-54.35	30800	30560	3880	-42980	52890	160
F67 852	-23 41.9	143 52.7	67	9	9	7.20	-54.10	30940	30690	3880	-42820	52830	170
F67 853	-23 35.1	143 58.3	67	9	10	7.30	-54.05	30910	30660	3920	-42700	52720	160
F67 854	-23 31.0	144 7.3	67	9	10	6.85	-53.90	30980	30790	3700	-42550	52640	190
F67 855	-23 24.0	144 12.4	67	9	10	7.20	-53.75	31020	30780	3880	-42370	52520	180
F67 856	-23 16.4	144 8.3	67	9	10	7.40	-53.65	31060	30800	4000	-42250	52450	240
F67 857	-23 8.7	144 0.8	67	9	10	7.40	-53.45	31160	30900	4020	-42130	52410	210
F67 858	-23 1.8	143 54.2	67	9	10	7.25	-53.30	31210	30960	3930	-41980	52320	240
F67 859	-22 54.4	143 47.6	67	9	10	7.20	-53.20	31270	31020	3910	-41870	52260	230
F67 860	-22 47.8	143 41.2	67	9	10	7.15	-53.05	31310	31070	3890	-41720	52170	230
F67 861	-22 40.8	143 33.0	67	9	10	7.05	-52.95	31350	31110	3860	-41590	52090	260
F67 862	-22 34.6	143 26.5	67	9	10	7.05	-52.80	31410	31180	3860	-41430	52000	230
F67 863	-22 28.7	143 19.1	67	9	10	7.05	-52.75	31420	31180	3850	-41410	51990	210
F67 864	-22 25.3	143 11.0	67	9	10	7.05	-52.70	31460	31220	3850	-41320	51940	190
F67 865	-23 19.5	144 22.4	67	9	11	7.35	-53.60	31100	30840	3990	-42270	52480	190
F67 866	-23 11.0	144 24.9	67	9	11	7.35	-53.45	31170	30910	3980	-42090	52380	210
F67 867	-22 56.2	144 36.3	67	9	11	7.35	-53.30	31200	30940	3980	-41930	52270	210
F67 868	-23 3.0	144 31.1	67	9	11	7.30	-53.10	31260	31000	3980	-41730	52150	220
F67 869	-22 47.0	144 37.2	67	9	11	7.30	-53.00	31260	31010	3980	-41560	52010	230
F67 870	-22 38.2	144 36.2	67	9	11	7.35	-52.85	31370	31110	4010	-41460	52000	220
F67 871	-22 31.4	144 30.8	67	9	12	6.80	-52.75	31380	31160	3720	-41310	51890	220
F67 872	-22 23.0	144 29.7	67	9	12	6.10	-52.65	31430	31250	3350	-41210	51840	220
F67 873	-22 14.0	144 32.3	67	9	12	6.95	-52.35	31560	31330	3620	-41010	51760	230
F67 874	-22 5.2	144 34.4	67	9	12	7.25	-52.40	31520	31270	3970	-41020	51740	260
F67 875	-21 57.4	144 39.5	67	9	12	7.20	-52.10	31750	31500	3990	-40890	51780	260
F67 876	-21 47.2	144 37.7	67	9	12	7.15	-51.75	31890	31650	3980	-40510	51560	280
F67 877	-21 37.9	144 37.1	67	9	12	7.10	-51.60	31910	31670	3930	-40300	51420	310
F67 878	-21 28.0	144 39.3	67	9	12	7.15	-51.45	31920	31680	3970	-40150	51310	320
F67 879	-21 17.1	144 38.1	67	9	12	7.20	-51.20	32110	31860	4030	-39990	51290	350
F67 880	-21 7.3	144 34.6	67	9	12	7.15	-50.85	32250	32000	4010	-39650	51120	380
F67 881	-27 1.7	153 27.0	67	9	16	6.65	-56.95	29360	29160	3390	-49170	53890	10
F67 882	-24 43.6	153 12.0	67	9	18	9.60	-54.05	30670	30240	5120	-42350	52300	10
F67 883	-24 7.0	152 42.8	67	9	19	10.30	-53.75	30670	30180	5490	-41920	51950	10
F67 884	-24 0.3	151 44.6	67	9	20	9.25	-53.80	30890	30490	4950	-42270	52360	10
F67 885	-23 52.8	151 22.9	67	9	21	9.00	-53.50	30900	30520	4830	-41810	52000	10
F67 886	-23 32.0	151 16.6	67	9	22	9.50	-53.15	30970	30590	5110	-41370	51690	10
F67 887	-23 29.6	150 58.9	67	9	22	9.20	-52.85	31230	30830	5000	-41270	51760	90
F67 888	-23 11.2	151 53.9	67	9	23	9.60	-52.55	31380	30940	5220	-41050	51680	10
F67 889	-21 57.2	150 42.2	67	9	23	8.70	-51.05	32000	31630	4850	-39680	50990	10
F67 890	-21 39.5	150 13.1	67	9	24	8.90	-50.90	31910	31530	4950	-39310	50640	10
F67 891	-21 31.2	150 15.0	67	9	25	8.65	-52.05	31870	31500	4800	-40930	51880	10
F67 892	-21 28.1	150 18.5	67	9	25	9.40	-50.80	32530	32090	5320	-39920	51510	10
F67 893	-21 0.5	149 53.8	67	9	26	8.35	-50.15	32490	32140	4730	-39000	50770	10
F67 894	-21 1.8	149 32.8	67	9	26	7.75	-50.30	32300	32010	4360	-39000	50650	10
F67 895	-20 22.1	148 55.8	67	9	28	8.00	-49.20	32590	32270	4550	-37800	49920	10
F67 896	-20 35.9	149 7.0	67	9	29	7.95	-49.65	32270	31960	4450	-38020	49880	10
F67 897	-20 15.2	149 10.7	67	9	30	7.65	-49.75	32710	32420	4360	-38720	50690	10
F67 898	-20 3.7	148 57.9	67	10	1	9.00	-50.15	32410	32010	5070	-38880	50620	10
F67 899	-20 1.0	148 37.5	67	10	1	7.45	-48.70	32880	32600	4250	-37510	49890	10

TABLE 1 SHEET 16

STATION	LAI DEG	MIN	LONG DEG	MIN	V	M	D	D DEG	I DEG	M	X	Y	Z	F	EL METERS
F67 900	-19	43.7	148	21.6	67	10	2	7.30	-48.75	32790	32520	4180	-37480	49800	10
F67 901	-19	20.0	147	26.0	67	10	2	7.40	-48.10	33340	33060	4300	-37230	49980	10
F67 902	-19	11.1	147	1.2	67	10	3	5.95	-47.90	33240	33060	3460	-36860	49650	10
F67 903	-19	59.0	146	43.2	67	10	4	8.05	-49.40	32890	32570	4610	-38430	50590	20
F67 904	-20	6.2	146	52.7	67	10	4	8.35	-49.45	32990	32640	4780	-38590	50780	250
F67 905	-20	16.9	146	52.7	67	10	4	8.00	-49.80	32380	32070	4920	-38360	50210	210
F67 906	-20	22.9	146	59.9	67	10	4	7.45	-49.35	32980	32310	4220	-38020	50080	210
F67 907	-20	38.9	147	8.8	67	10	4	11.70	-49.50	31340	30680	6360	-36750	48300	100
F67 908	-20	14.7	146	11.2	67	10	5	7.30	-49.30	33010	32750	4200	-38460	50690	370
F67 909	-20	24.7	146	12.5	67	10	5	7.35	-49.60	32990	32330	4170	-38380	50360	320
F67 910	-20	35.4	146	16.3	67	10	5	7.35	-49.95	32490	32230	4150	-38730	50570	260
F67 911	-20	43.5	146	19.0	67	10	5	7.55	-50.30	32270	31990	4240	-38940	50580	240
F67 912	-20	51.5	146	24.0	67	10	5	7.60	-50.20	32320	32040	4290	-38880	50570	220
F67 913	-21	0.2	146	25.6	67	10	5	7.65	-50.30	32370	32080	4320	-39050	50730	200
F67 914	-21	10.9	146	27.4	67	10	5	7.70	-50.55	32340	32050	4330	-39350	50940	220
F67 915	-21	20.9	146	32.0	67	10	5	7.75	-50.75	32300	32000	4370	-39600	51110	240
F67 916	-21	28.7	146	41.7	67	10	5	7.90	-50.90	32220	31920	4420	-39730	51160	230
F67 917	-20	6.6	146	14.6	67	10	6	7.70	-49.25	32630	32330	4370	-37930	50040	340
F67 918	-20	9.2	146	3.2	67	10	6	6.20	-49.20	32990	32800	3560	-38300	50580	340
F67 919	-20	13.1	145	54.5	67	10	6	7.55	-49.40	32720	32440	4290	-38240	50340	320
F67 920	-20	17.5	145	46.2	67	10	6	7.15	-49.60	32610	32350	4060	-38360	50390	340
F67 921	-20	22.2	145	36.8	67	10	6	7.60	-49.80	32630	32350	4320	-38660	50600	350
F67 922	-20	27.0	145	31.2	67	10	6	7.50	-49.85	32410	32140	4230	-38460	50300	340
F67 923	-20	33.3	145	22.0	67	10	6	7.20	-49.90	32630	32370	4090	-38840	50730	440
F67 924	-20	57.8	145	2.0	67	10	6	7.10	-50.75	32230	31990	4000	-39490	50590	420
F67 925	-21	6.1	145	4.8	67	10	6	7.20	-50.90	32180	31930	4040	-39660	51080	390
F67 926	-21	14.5	145	7.7	67	10	6	6.00	-51.05	32140	31960	3350	-39820	51180	350
F67 927	-21	22.9	145	12.7	67	10	7	8.00	-51.20	32090	31770	4470	-39940	51240	320
F67 928	-21	32.3	145	14.0	67	10	7	9.35	-51.35	32010	31590	5210	-40110	51330	290
F67 929	-21	40.2	145	15.5	67	10	7	8.65	-51.55	31930	31570	4790	-40240	51370	270
F67 930	-21	47.8	145	9.8	67	10	7	7.05	-51.70	31920	31680	3910	-40480	51560	270
F67 931	-21	58.6	145	11.1	67	10	7	7.55	-51.95	31780	31490	4170	-40610	51560	260
F67 932	-22	7.4	145	9.5	67	10	7	7.45	-52.15	31720	31450	4120	-40910	51770	240
F67 933	-22	15.8	145	6.8	67	10	7	7.45	-52.40	31620	31350	4100	-41160	51610	230
F67 934	-22	25.0	145	0.5	67	10	7	7.15	-52.60	31530	31290	3930	-41300	51670	230
F67 935	-22	34.4	145	2.7	67	10	7	7.25	-52.95	31340	31090	3960	-41550	52060	230
F67 936	-22	44.3	145	3.0	67	10	7	7.50	-53.15	31110	30850	4070	-41580	51640	230
F67 937	-22	57.4	145	13.0	67	10	7	7.80	-53.25	31140	30850	4230	-41790	52120	220
F67 938	-22	52.1	145	5.7	67	10	8	7.25	-53.05	31220	30970	3930	-41570	51590	230
F67 939	-22	47.8	144	57.6	67	10	8	7.75	-53.10	31130	30850	4210	-41540	51620	240
F67 940	-22	43.4	144	46.2	67	10	8	7.25	-52.95	31280	31030	3950	-41510	51590	250
F67 941	-22	17.0	144	19.0	67	10	8	7.35	-52.40	31340	31280	4030	-41030	51760	220
F67 942	-22	11.2	144	11.6	67	10	8	7.05	-52.30	31980	31340	3870	-40930	51700	240
F67 943	-22	7.4	144	1.5	67	10	8	7.00	-52.25	31630	31390	3860	-40910	51720	240
F67 944	-22	4.1	143	51.3	67	10	8	6.70	-52.25	31630	31420	3690	-40930	51740	260
F67 945	-21	58.8	143	44.0	67	10	8	6.75	-52.05	31680	31460	3720	-40670	51560	280
F67 946	-21	55.9	143	35.0	67	10	8	6.90	-52.05	31660	31430	3810	-40660	51540	270
F67 947	-21	55.4	143	25.2	67	10	8	6.85	-52.05	31690	31420	3770	-40660	51530	230
F67 948	-23	40.0	149	29.3	67	10	10	9.25	-53.40	31130	30730	5020	-41950	52290	120
F67 949	-23	43.7	149	40.6	67	10	10	9.00	-53.35	31090	30710	4850	-41860	52190	90
F67 950	-23	29.8	149	54.2	67	10	10	8.40	-53.35	31040	30710	4530	-41820	52090	110
F67 952	-23	40.1	150	2.3	67	10	10	8.65	-53.30	30740	30390	4620	-41320	51910	80
F67 953	-23	35.4	150	10.3	67	10	10	8.05	-54.00	30890	30590	4330	-42600	52630	90
F67 954	-23	29.1	150	19.5	67	10	10	8.50	-53.15	31790	31440	4710	-42500	53080	40
F67 955	-23	43.3	150	22.3	67	10	11	8.95	-53.45	31220	30830	4870	-42180	52480	170
F67 956	-23	51.0	150	15.6	67	10	11	7.70	-54.00	30480	30210	4100	-41990	51900	130
F67 957	-23	59.1	150	9.5	67	10	11	8.80	-53.55	30980	30610	4730	-41970	52170	110
F67 958	-24	8.3	150	6.1	67	10	11	9.00	-53.80	31030	30650	4890	-42480	52610	110
F67 959	-24	17.1	150	10.0	67	10	11	8.90	-54.00	30900	30530	4770	-42590	52620	150

TABLE 1 SHEET 17

STATION	LAT DEG MIN	LONG DEG MIN	Y M D	D DEG	I DEG	M	X	Y	Z	F	EL METRES
F67 960	-24 27.3	150 8.0	67 10 11	8.89	-54.25	30910	30540	4790	-42990	92990	190
F67 961	-24 33.0	149 59.6	67 10 11	8.65	-54.60	30640	30290	4610	-43170	92990	120
F67 962	-24 37.5	149 47.3	67 10 11	8.65	-54.55	30570	30220	4600	-43010	92780	120
F67 963	-24 38.7	149 36.3	67 10 11	8.25	-54.65	30510	30190	4380	-43090	92800	140
F67 964	-24 38.3	149 28.5	67 10 12	9.00	-54.70	30540	30120	4780	-43160	92860	160
F67 965	-24 34.0	149 17.5	67 10 12	9.25	-54.70	30540	30130	4920	-43200	92900	190
F67 966	-24 37.0	149 7.8	67 10 12	9.00	-54.75	30540	30150	4790	-43270	92960	240
F67 967	-24 35.8	148 56.8	67 10 12	9.45	-54.75	30390	29980	4980	-43070	92720	320
F67 968	-24 29.9	148 45.5	67 10 12	9.15	-54.75	30360	29970	4840	-42990	92640	260
F67 969	-24 17.2	148 35.5	67 10 12	8.25	-54.60	30280	29960	4340	-42640	92310	210
F67 970	-24 23.3	148 26.5	67 10 12	6.45	-54.55	30360	30030	4450	-42680	92390	240
F67 971	-24 17.1	148 19.2	67 10 12	8.25	-54.45	30580	30260	4380	-42820	92630	250
F67 972	-24 12.9	148 10.5	67 10 12	8.30	-54.80	30480	30160	4400	-43230	92900	380
F67 973	-24 31.8	148 21.4	67 10 12	8.25	-54.40	30600	30280	4400	-42810	92630	260
F67 974	-24 35.4	148 12.1	67 10 13	8.80	-54.70	30460	30110	4650	-43130	92810	330
F67 975	-24 42.2	148 6.0	67 10 13	8.45	-54.75	30450	30120	4470	-43190	92860	370
F67 976	-24 36.5	148 30.6	67 10 14	8.45	-54.60	30560	30220	4490	-43070	92810	230
F67 977	-24 45.8	148 31.8	67 10 14	8.70	-54.75	30640	30296	4640	-43420	93190	280
F67 978	-26 30.0	150 5.5	67 10 15	9.25	-56.80	29520	29140	4740	-45170	93970	390
F67 979	-26 21.5	150 4.1	67 10 15	9.20	-56.60	29630	29250	4740	-45040	93920	330
F67 980	-26 12.7	150 1.0	67 10 15	8.90	-56.35	29750	29390	4590	-44800	93780	270
F67 981	-26 4.3	149 55.7	67 10 16	9.55	-56.15	29820	29400	4950	-44560	93630	250
F67 982	-25 55.7	149 54.5	67 10 16	9.55	-56.30	29890	29470	4970	-44880	93530	250
F67 983	-25 46.6	149 52.1	67 10 16	10.05	-55.80	29950	29490	5220	-44160	93370	210
F67 984	-25 38.7	149 47.2	67 10 16	9.50	-55.65	30050	29630	4970	-44050	93330	200
F67 985	-25 30.0	149 46.7	67 10 16	9.40	-55.50	30130	29730	4930	-43890	93290	200
F67 986	-25 22.9	149 51.8	67 10 16	9.00	-55.35	30200	29830	4720	-43760	93180	260
F67 987	-25 14.0	149 57.7	67 10 16	8.70	-55.25	30240	29890	4570	-43650	93100	340
F67 988	-24 57.0	150 4.0	67 10 16	8.60	-55.05	30310	29970	4540	-43440	92980	140
F67 989	-24 47.2	150 1.0	67 10 16	8.90	-55.00	30330	29990	4500	-43360	92930	130
F67 990	-24 23.0	150 17.2	67 10 17	11.60	-54.00	31100	30470	6290	-42850	92990	210
F67 991	-24 26.0	150 26.6	67 10 17	10.15	-53.85	30860	30370	5490	-42350	92410	170
F67 992	-24 16.1	150 32.7	67 10 17	9.75	-54.30	30750	30310	5190	-42880	92770	210
F67 993	-24 9.7	150 42.6	67 10 17	9.40	-54.40	30570	30160	4990	-42750	92560	120
F67 994	-24 5.2	150 51.8	67 10 17	9.10	-53.65	30920	30530	4890	-42100	92240	60
F67 995	-24 1.4	151 1.0	67 10 17	9.40	-53.85	30920	30500	5040	-42400	92480	20
F67 996	-24 1.0	151 10.2	67 10 17	9.10	-53.45	30960	30570	4900	-41860	92080	50
F67 997	-23 52.3	149 34.2	67 10 20	9.10	-53.50	31110	30720	4910	-42080	92340	100
F67 998	-24 0.0	149 30.8	67 10 20	9.10	-53.75	31020	30630	4900	-42350	92510	230
F67 999	-24 9.2	149 30.5	67 10 20	8.95	-53.95	30920	30540	4820	-42550	92610	180
F671000	-24 17.0	149 26.7	67 10 20	9.00	-54.05	30920	30540	4830	-42710	92740	190
F671001	-24 26.7	149 21.5	67 10 20	9.20	-54.50	30670	30280	4890	-43040	92800	150
F671002	-24 57.7	148 32.3	67 10 20	8.80	-55.20	30310	29950	4640	-43650	93190	270
F671003	-25 0.3	148 35.0	67 10 20	8.75	-55.30	30360	30000	4620	-43880	93360	310
F671004	-25 16.3	148 39.0	67 10 20	9.25	-55.90	29950	29560	4810	-44270	93460	470
F671005	-25 24.9	148 38.1	67 10 21	9.55	-55.70	29900	29580	4970	-44020	93270	440
F671006	-25 32.8	148 41.6	67 10 21	10.45	-55.85	29910	29420	5430	-44160	93340	490
F671007	-25 41.6	148 40.8	67 10 21	11.20	-55.95	29880	29310	5810	-44270	93420	430
F671008	-25 49.0	148 35.7	67 10 21	10.70	-56.15	29870	29350	5550	-44610	93690	400
F671009	-25 59.3	148 33.0	67 10 21	9.40	-56.30	29800	29400	4880	-44800	93820	420
F671010	-26 9.5	148 39.1	67 10 21	9.25	-56.45	29750	29360	4790	-44960	93920	380
F671011	-26 16.8	148 44.9	67 10 21	9.05	-56.55	29730	29360	4670	-45080	94010	360
F671012	-26 25.3	148 47.5	67 10 21	9.00	-56.75	29650	29290	4640	-45270	94130	370
F671013	-25 45.8	146 43.8	67 10 22	10.65	-56.35	29850	29330	5510	-44880	93910	540
F671014	-25 43.5	146 54.0	67 10 23	9.05	-56.30	29840	29510	4700	-44900	93940	930
F671015	-25 41.7	147 3.1	67 10 23	9.65	-56.30	29910	29490	5010	-44900	93980	460
F671016	-25 35.1	147 9.4	67 10 23	10.70	-56.05	29900	29470	5560	-44650	93790	920
F671017	-25 38.8	147 18.9	67 10 23	10.45	-56.00	29940	29450	5430	-44470	93620	920
F671018	-25 35.0	147 25.5	67 10 23	9.05	-56.00	30030	29650	4720	-44570	93790	970
F671019	-25 46.8	147 25.4	67 10 23	8.50	-56.20	29840	29520	4420	-44640	93710	920

TABLE 1 SHEET 18

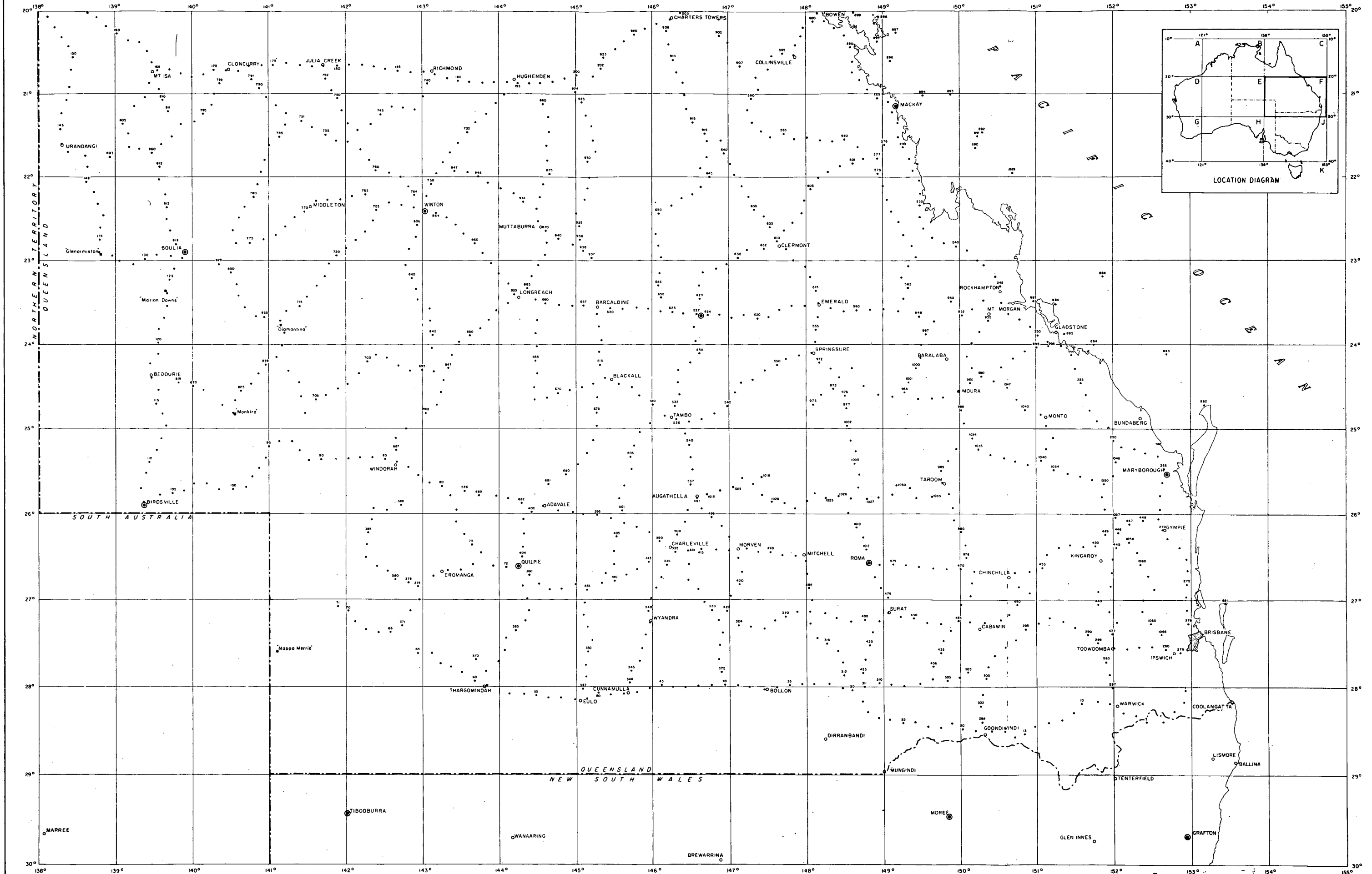
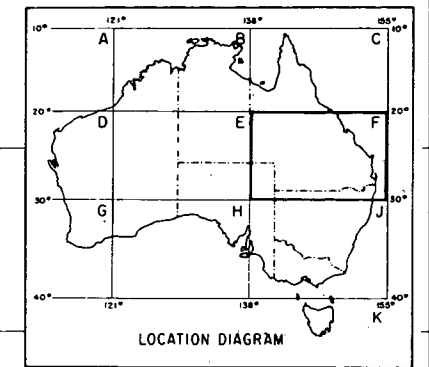
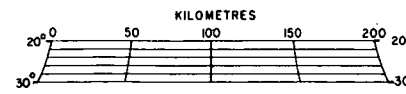
STATION	LAT DEG MIN	LONG DEG MIN	Y M D	D DEG	I DEG	H	X	Y	Z	F	BL METRES
F671020	-25 51.5	147 32.7	67 10 23	8.40	-56.35	29720	29400	4330	+44740	93720	490
F671021	-25 52.7	147 43.5	67 10 23	9.00	-56.35	29820	29460	4660	+44890	93900	460
F671022	-25 55.7	147 52.2	67 10 24	9.40	-56.35	29770	29370	4890	+44790	93790	400
F671023	-25 51.8	148 1.3	67 10 24	10.40	-56.25	29840	29350	5380	+44700	93760	440
F671024	-25 49.6	148 7.3	67 10 24	11.50	-56.05	29920	29320	5970	+44480	93620	500
F671025	-25 49.0	148 16.2	67 10 24	11.25	-56.10	29860	29290	5830	+44490	93590	580
F671026	-25 47.5	148 25.6	67 10 24	10.45	-56.05	29870	29380	5420	+44440	93590	470
F671027	-25 49.5	148 48.0	67 10 24	7.90	-56.00	29900	29620	4100	+44380	93920	390
F671028	-25 48.8	148 56.7	67 10 24	8.90	-55.95	29910	29550	4630	+44350	93500	380
F671029	-25 47.0	149 7.1	67 10 24	8.75	-56.00	29830	29490	4540	+44300	93480	340
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F671032	-25 49.6	149 26.9	67 10 25	8.85	-56.10	29900	29540	4610	+44530	93640	220
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F671041	-25 14.4	151 8.5	67 10 25	9.45	-55.00	30710	30300	5040	+43950	93630	190
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F671055	-25 48.3	151 51.3	67 10 31	9.60	-55.85	29900	29480	4970	+44110	93290	230
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F671057	-26 2.7	152 2.8	67 11 1	9.35	-56.20	29570	29180	4810	+44280	93260	230
F671058	-26 20.2	152 13.0	67 11 1	9.80	-56.40	29670	29240	5050	+44730	93690	340
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F671060	-26 35.0	152 22.3	67 11 1	10.70	-56.15	29860	29340	5540	+44600	93680	460
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F671063	-26 59.3	152 23.9	67 11 1	9.70	-56.80	29510	29090	4970	+45140	93540	80
F671064	-27 8.5	152 23.0	67 11 1	11.15	-57.00	29340	28790	5680	+45270	93590	90
F671065	-27 16.3	152 30.0	67 11 2	10.65	-57.15	29390	28890	5430	+45560	94230	90
F671066	-27 24.8	152 37.7	67 11 2	11.05	-57.40	29200	28660	5400	+45720	94260	60

THIRD - ORDER MAGNETIC STATIONS OCCUPIED 1967

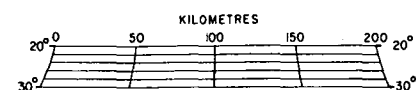
● Stations in the First - Order Network

COMPILED AND DRAWN IN THE GEOPHYSICAL BRANCH, BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS

ACCURACY: THIRD ORDER



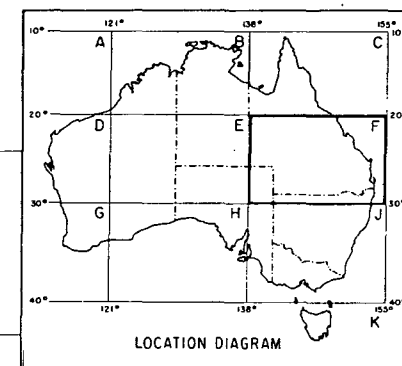
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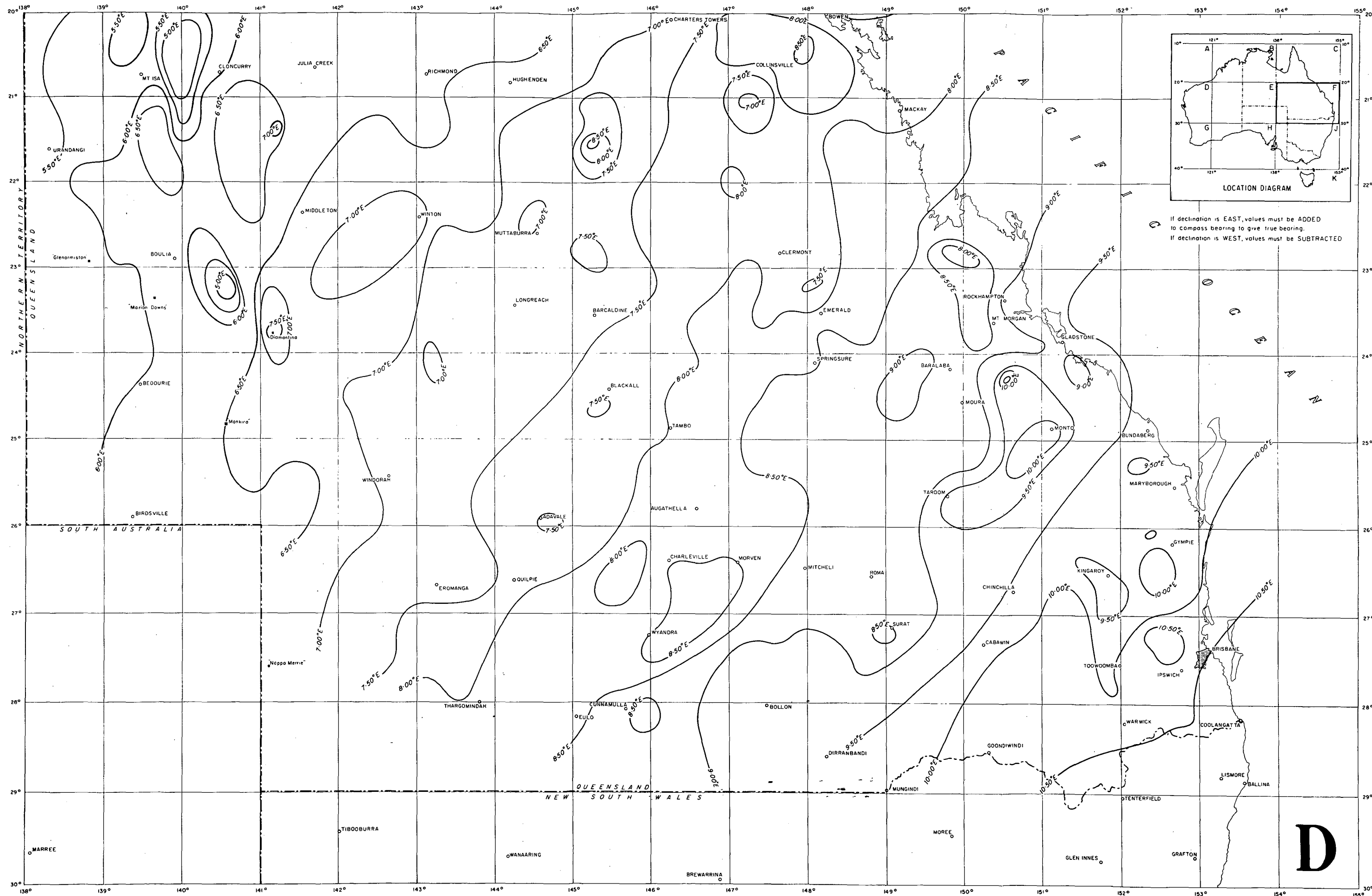
MAGNETIC DECLINATION (OR VARIATION) IN DEGREES

COMPILED AND DRAWN IN THE GEOPHYSICAL BRANCH, BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS

ACCURACY: THIRD ORDER



If declination is EAST, values must be ADDED to compass bearing to give true bearing.
If declination is WEST, values must be SUBTRACTED



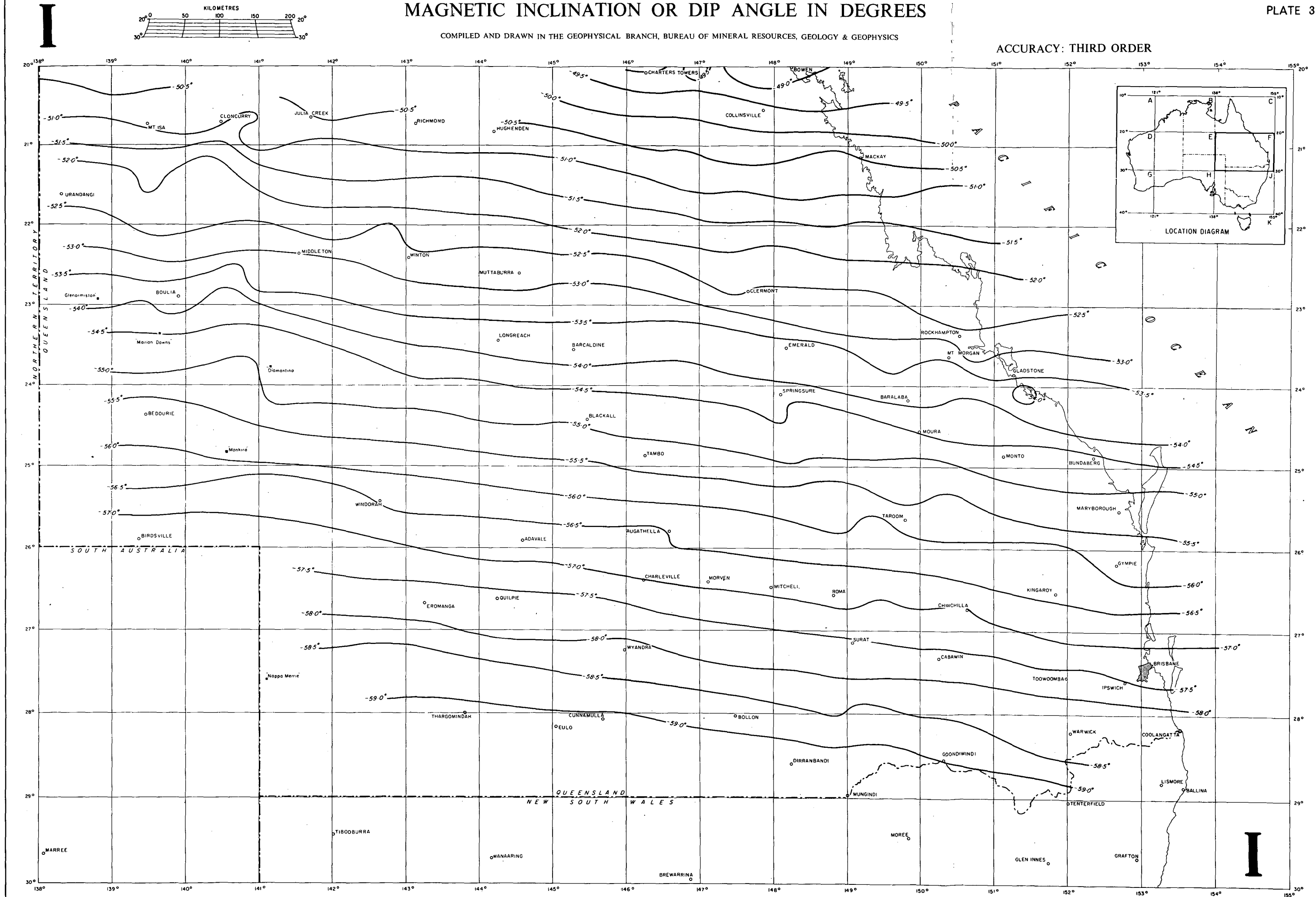
D

MAGNETIC INCLINATION OR DIP ANGLE IN DEGREES

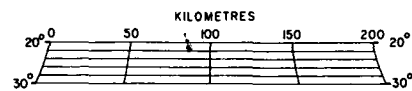
PLATE 3

COMPILED AND DRAWN IN THE GEOPHYSICAL BRANCH, BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS

ACCURACY: THIRD ORDER



H

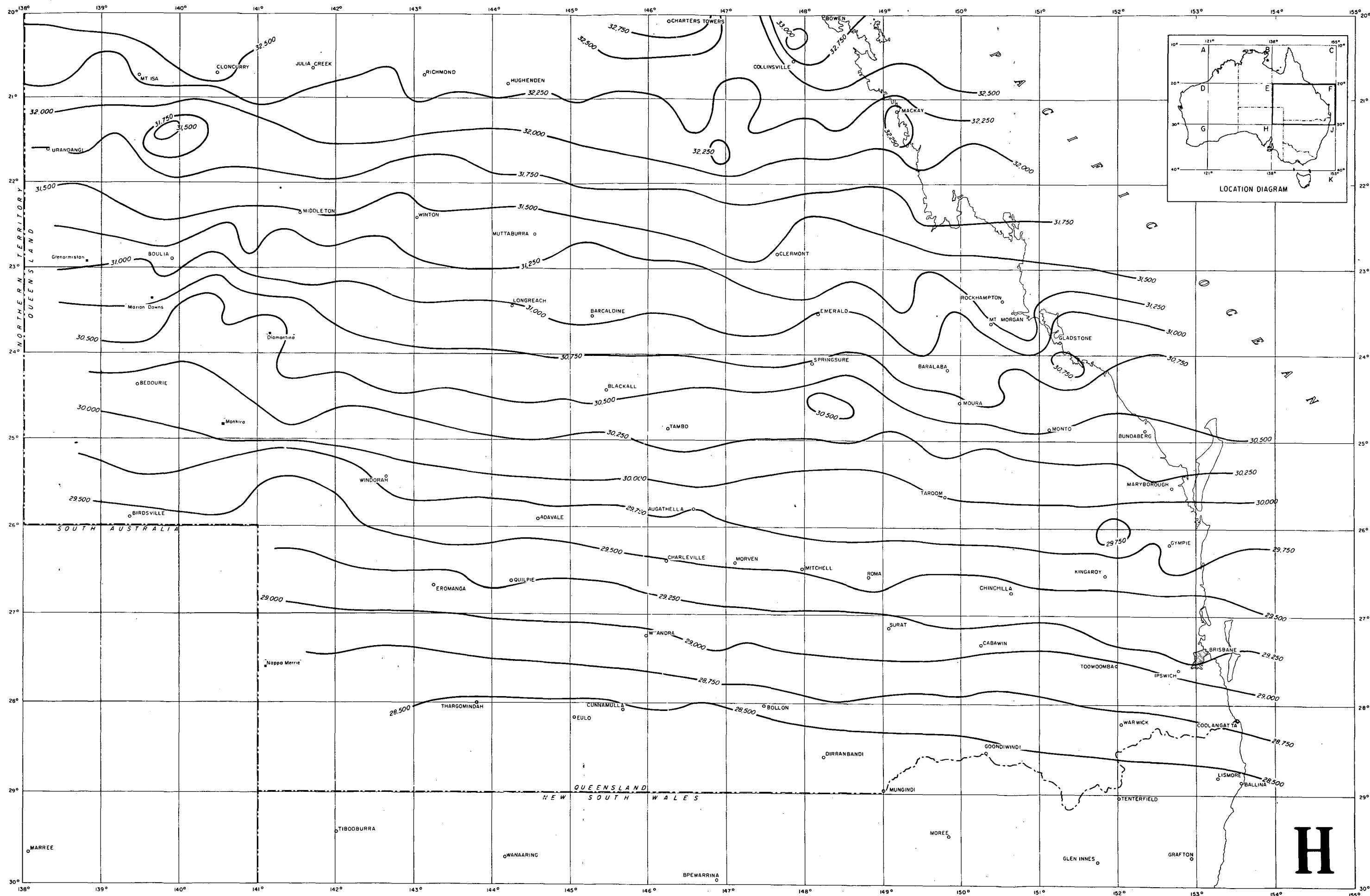
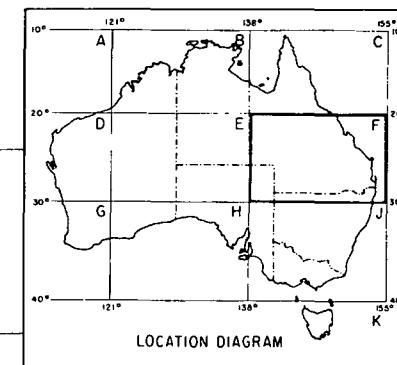


HORIZONTAL MAGNETIC INTENSITY IN GAMMAS (c.g.s. UNITS $\times 10^{-5}$)

COMPILED AND DRAWN IN THE GEOPHYSICAL BRANCH, BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS

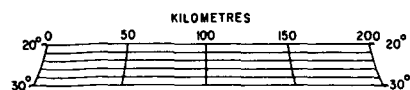
ACCURACY: THIRD ORDER

PLATE 4



H

Y

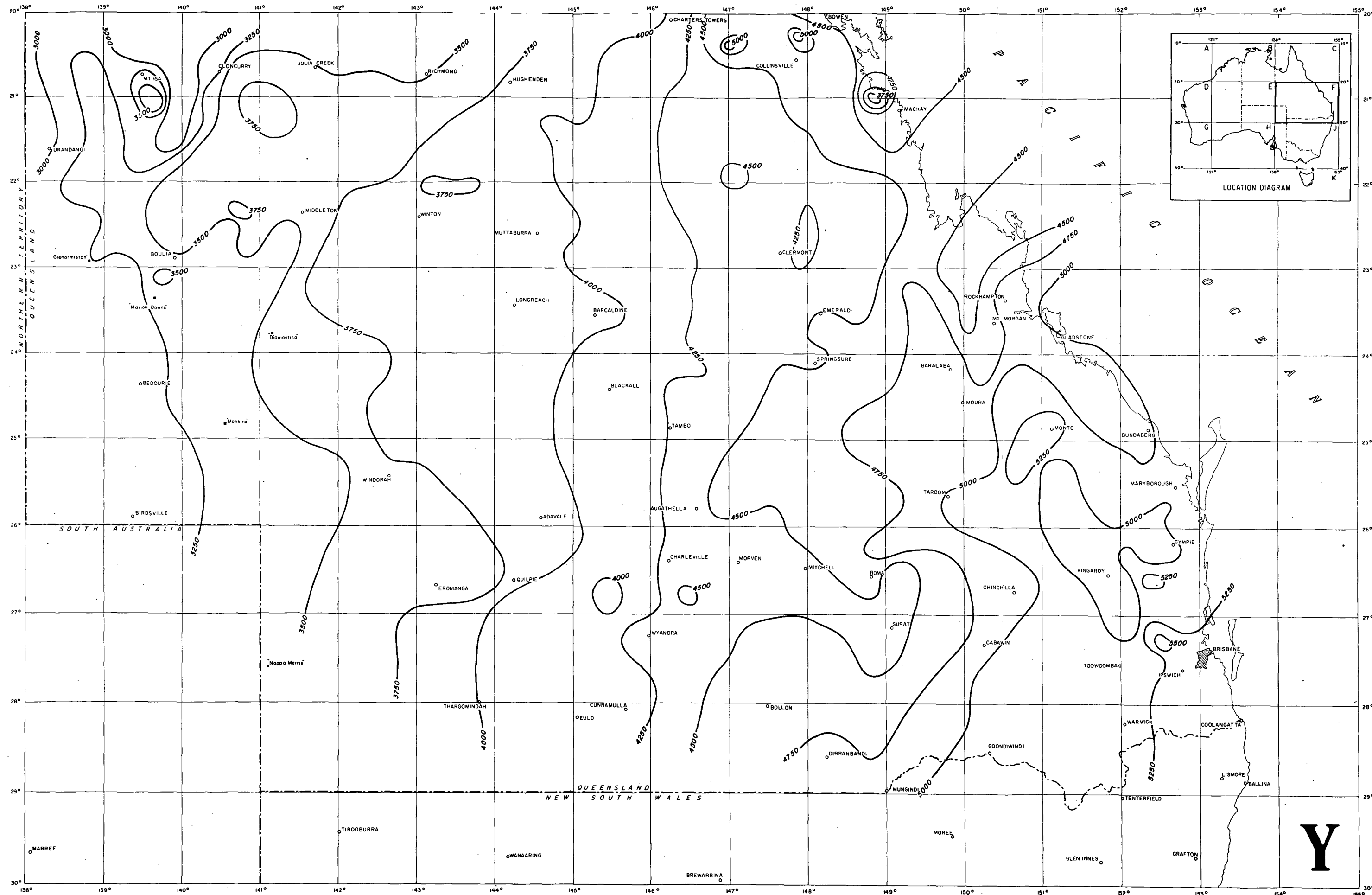


EAST MAGNETIC INTENSITY IN GAMMAS (c.g.s. UNITS $\times 10^{-5}$)

COMPILED AND DRAWN IN THE GEOPHYSICAL BRANCH, BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS

ACCURACY: THIRD ORDER

PLATE 5



Y

Scale 1:5,000,000 at equator. Mercator projection

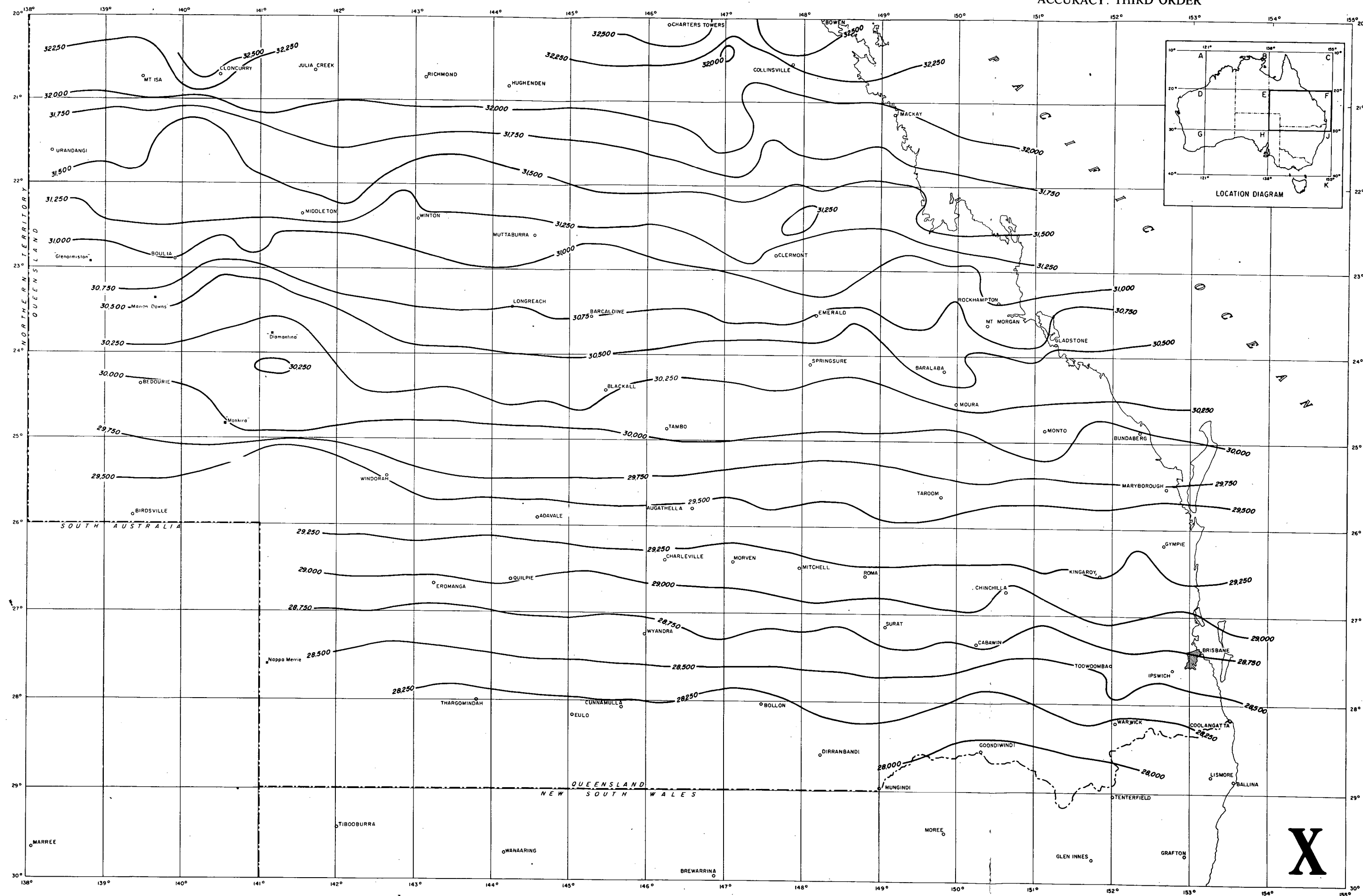
To accompany Record No. 1970/56

A/B9-17

PLATE 6

COMPILED AND DRAWN IN THE GEOPHYSICAL BRANCH, BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS

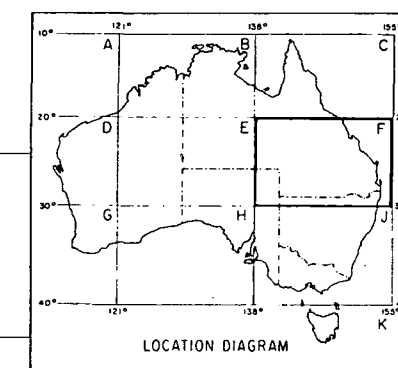
ACCURACY: THIRD ORDER



(BASED ON G96-250) Scale 1:5,000,000 at equator. Mercator projection

To accompany Record No. 1970 / 56, A/B9-15

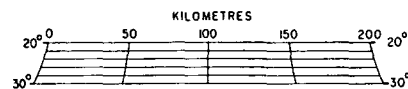
Z



(BASED ON G96-250) Scale 1:5,000,000 at equator. Mercator projection

To accompany Record No. 1970 / 56 - A/B9-14

F

TOTAL MAGNETIC INTENSITY IN GAMMAS (c.g.s. UNITS $\times 10^5$)

COMPILED AND DRAWN IN THE GEOPHYSICAL BRANCH, BUREAU OF MINERAL RESOURCES, GEOLOGY & GEOPHYSICS

PLATE 8

ACCURACY: THIRD ORDER

