

Leg1 P06West

| Leg1 | P06West  |     |           |  |             |               |     | 30 | 04.85S | 176 | 29.88E | 4355 | P6W | 192 |
|------|----------|-----|-----------|--|-------------|---------------|-----|----|--------|-----|--------|------|-----|-----|
|      | Latitude |     | Longitude |  | Water Dept. | Original Sta. | 30  |    |        |     |        |      |     |     |
|      |          |     |           |  |             |               |     | 31 | 05.06S | 177 | 32.25E | 4130 | P6W | 190 |
|      |          |     |           |  |             |               |     | 31 | 34.99S | 177 | 59.92E | 3811 | P6C | 186 |
| 30   | 05.38S   | 153 | 28.92E    |  | 85          | P6W           | 246 | 32 | 05.07S | 178 | 30.09E | 3100 | P6C | 185 |
| 30   | 05.03S   | 153 | 31.53E    |  | 127         | P6W           | 245 | 32 | 29.91S | 178 | 54.92E | 1520 | P6C | 184 |
| 30   | 05.05S   | 153 | 35.90E    |  | 1100        | P6W           | 244 | 32 | 29.97S | 179 | 25.09E | 3055 | P6C | 183 |
| 30   | 04.58S   | 153 | 40.96E    |  | 2400        | P6W           | 243 | 32 | 30.00S | 179 | 55.06E | 2757 | P6C | 182 |
| 30   | 04.66S   | 153 | 45.10E    |  | 1790        | P6W           | 242 | 32 | 30.15S | 179 | 34.98W | 3000 | P6C | 181 |
| 30   | 05.07S   | 153 | 55.35E    |  | 2665        | P6W           | 241 | 32 | 29.92S | 178 | 54.68W | 2002 | P6C | 180 |
| 30   | 05.01S   | 154 | 00.07E    |  | 4437        | P6W           | 240 | 32 | 29.91S | 178 | 38.85W | 3455 | P6C | 179 |
| 30   | 05.12S   | 154 | 09.77E    |  | 4590        | P6W           | 239 | 32 | 29.95S | 178 | 28.15W | 4335 | P6C | 178 |
| 30   | 05.13S   | 154 | 29.80E    |  | 4575        | P6W           | 238 | 32 | 30.00S | 178 | 17.02W | 5020 | P6C | 177 |
| 30   | 04.94S   | 155 | 00.00E    |  | 4695        | P6W           | 237 | 32 | 30.05S | 178 | 00.03W | 5820 | P6C | 176 |
| 30   | 05.02S   | 155 | 29.71E    |  | 4812        | P6W           | 236 | 32 | 30.00S | 177 | 40.00W | 7310 | P6C | 175 |
| 30   | 04.35S   | 155 | 59.46E    |  | 4532        | P6W           | 235 | 32 | 30.12S | 177 | 15.13W | 7150 | P6C | 174 |
| 30   | 04.97S   | 156 | 31.78E    |  | 4805        | P6W           | 234 | 32 | 29.96S | 176 | 45.08W | 6075 | P6C | 173 |
| 30   | 04.86S   | 156 | 29.75E    |  | 4795        | P6W           | 233 | 32 | 30.16S | 176 | 15.03W | 5545 | P6C | 172 |
| 30   | 05.02S   | 156 | 55.26E    |  | 4850        | P6W           | 232 | 32 | 30.07S | 175 | 45.01W | 5730 | P6C | 171 |
| 30   | 05.01S   | 157 | 19.84E    |  | 3225        | P6W           | 231 | 32 | 29.87S | 175 | 15.29W | 5681 | P6C | 170 |
| 30   | 05.14S   | 157 | 40.10E    |  | 1847        | P6W           | 230 | 32 | 30.10S | 174 | 50.13W | 5700 | P6C | 169 |
| 30   | 05.09S   | 158 | 00.03E    |  | 2015        | P6W           | 229 | 32 | 29.82S | 174 | 19.83W | 5795 | P6C | 168 |
| 30   | 04.97S   | 158 | 20.10E    |  | 2655        | P6W           | 228 | 32 | 29.88S | 174 | 00.05W | 5764 | P6C | 167 |
| 30   | 04.64S   | 158 | 40.96E    |  | 3195        | P6W           | 227 | 32 | 30.25S | 173 | 39.97W | 5611 | P6C | 166 |
| 30   | 19.96S   | 159 | 04.98E    |  | 2360        | P6W           | 226 | 32 | 29.95S | 173 | 10.39W | 5797 | P6C | 165 |
| 30   | 05.01S   | 159 | 30.03E    |  | 2691        | P6W           | 225 | 32 | 29.93S | 172 | 54.89W | 5923 | P6C | 164 |
| 30   | 04.92S   | 160 | 00.18E    |  | 1660        | P6W           | 224 | 32 | 30.13S | 172 | 25.04W | 5700 | P6C | 163 |
| 30   | 04.95S   | 160 | 30.05E    |  | 1515        | P6W           | 223 | 32 | 29.95S | 171 | 55.03W | 4140 | P6C | 162 |
| 30   | 05.05S   | 160 | 59.93E    |  | 1273        | P6W           | 222 | 32 | 30.11S | 171 | 35.07W | 4820 | P6C | 161 |
| 30   | 04.99S   | 161 | 30.26E    |  | 1175        | P6W           | 221 | 32 | 30.01S | 171 | 15.10W | 5430 | P6C | 160 |
| 30   | 05.03S   | 162 | 10.00E    |  | 1150        | P6W           | 220 | 32 | 30.00S | 170 | 45.16W | 5680 | P6C | 159 |
| 30   | 04.98S   | 162 | 49.87E    |  | 1145        | P6W           | 219 | 32 | 30.01S | 170 | 15.06W | 5705 | P6C | 158 |
| 30   | 04.91S   | 163 | 30.11E    |  | 1440        | P6W           | 218 | 32 | 29.50S | 169 | 50.69W | 5435 | P6C | 157 |
| 30   | 04.92S   | 163 | 55.00E    |  | 1955        | P6W           | 217 | 32 | 30.02S | 169 | 30.23W | 5482 | P6C | 156 |
| 30   | 04.84S   | 164 | 20.10E    |  | 3295        | P6W           | 216 | 32 | 29.79S | 169 | 00.23W | 5345 | P6C | 155 |
| 30   | 05.06S   | 164 | 49.90E    |  | 3378        | P6W           | 215 | 32 | 30.04S | 168 | 30.13W | 5450 | P6C | 154 |
| 30   | 04.62S   | 165 | 24.50E    |  | 3374        | P6W           | 214 | 32 | 30.11S | 168 | 00.92W | 5530 | P6C | 153 |
| 30   | 04.99S   | 165 | 49.87E    |  | 2450        | P6W           | 213 | 32 | 30.15S | 167 | 29.97W | 5225 | P6C | 152 |
| 30   | 04.66S   | 166 | 29.84E    |  | 3120        | P6W           | 212 | 32 | 29.98S | 167 | 09.99W | 5370 | P6C | 151 |
| 30   | 05.03S   | 167 | 00.16E    |  | 2845        | P6W           | 211 | 32 | 29.81S | 166 | 29.96W | 5275 | P6C | 150 |
| 30   | 04.91S   | 167 | 29.90E    |  | 1215        | P6W           | 210 | 32 | 29.87S | 165 | 49.93W | 5385 | P6C | 149 |
| 30   | 04.92S   | 167 | 59.90E    |  | 1200        | P6W           | 209 | 32 | 29.98S | 165 | 09.97W | 6280 | P6C | 148 |
| 30   | 04.05S   | 168 | 30.00E    |  | 3346        | P6W           | 208 | 32 | 29.90S | 164 | 29.71W | 5475 | P6C | 147 |
| 30   | 05.01S   | 168 | 59.92E    |  | 3150        | P6W           | 207 | 32 | 30.05S | 163 | 50.12W | 5405 | P6C | 146 |
| 30   | 05.12S   | 169 | 29.82E    |  | 2715        | P6W           | 206 | 32 | 29.94S | 163 | 10.03W | 5200 | P6C | 145 |
| 30   | 04.82S   | 169 | 59.82E    |  | 2945        | P6W           | 205 | 32 | 30.02S | 162 | 30.07W | 5075 | P6C | 144 |
| 30   | 05.07S   | 170 | 29.94E    |  | 2905        | P6W           | 204 | 32 | 29.98S | 161 | 49.96W | 5390 | P6C | 143 |
| 30   | 05.05S   | 171 | 00.09E    |  | 2145        | P6W           | 203 | 32 | 29.94S | 161 | 09.91W | 5115 | P6C | 142 |
| 30   | 04.69S   | 171 | 16.51E    |  | 590         | P6W           | 202 | 32 | 29.72S | 160 | 29.62W | 5500 | P6C | 140 |
| 30   | 05.09S   | 171 | 29.90E    |  | 3000        | P6W           | 201 | 32 | 29.93S | 159 | 49.99W | 5290 | P6C | 139 |
| 30   | 05.04S   | 172 | 00.04E    |  | 2775        | P6W           | 200 | 32 | 30.11S | 158 | 59.85W | 5260 | P6C | 138 |
| 30   | 04.98S   | 172 | 29.92E    |  | 2140        | P6W           | 199 | 32 | 30.04S | 158 | 09.95W | 5620 | P6C | 137 |
| 30   | 05.06S   | 172 | 59.95E    |  | 1310        | P6W           | 198 | 32 | 29.73S | 157 | 19.98W | 5320 | P6C | 136 |
| 30   | 05.13S   | 173 | 29.74E    |  | 2440        | P6W           | 197 | 32 | 29.97S | 156 | 30.06W | 5275 | P6C | 135 |
| 30   | 04.97S   | 173 | 59.90E    |  | 3360        | P6W           | 196 | 32 | 29.94S | 155 | 40.04W | 5130 | P6C | 134 |
| 30   | 05.08S   | 174 | 30.04E    |  | 3580        | P6W           | 195 | 32 | 30.17S | 154 | 50.49W | 4975 | P6C | 133 |
| 30   | 04.86S   | 175 | 10.08E    |  | 4100        | P6W           | 194 | 32 | 30.00S | 153 | 59.69W | 5000 | P6C | 132 |
| 30   | 04.90S   | 175 | 50.02E    |  | 4240        | P6W           | 193 | 32 | 30.02S | 153 | 09.94W | 5180 | P6C | 131 |

|    |        |     |        |      |     |     |
|----|--------|-----|--------|------|-----|-----|
| 32 | 29.95S | 152 | 20.05W | 4060 | P6C | 130 |
| 32 | 29.92S | 151 | 29.62W | 5470 | P6C | 129 |
| 32 | 29.97S | 150 | 40.04W | 5080 | P6C | 128 |

Leg2      P06East

|    | Latitude | Longitude | Water<br>Dept. | Original<br>Sta. |     |     |
|----|----------|-----------|----------------|------------------|-----|-----|
| 32 | 30.09S   | 149       | 49.64W         | 4990             | P6C | 127 |
| 32 | 29.98S   | 148       | 59.94W         | 4910             | P6C | 126 |
| 32 | 30.13S   | 148       | 09.99W         | 4540             | P6C | 125 |
| 32 | 29.94S   | 147       | 20.69W         | 4600             | P6C | 124 |
| 32 | 29.94S   | 146       | 29.99W         | 5110             | P6C | 123 |
| 32 | 29.97S   | 145       | 39.81W         | 4985             | P6C | 122 |
| 32 | 30.35S   | 144       | 49.87W         | 5240             | P6C | 121 |
| 32 | 29.94S   | 143       | 59.92W         | 4874             | P6C | 120 |
| 32 | 30.60S   | 143       | 08.97W         | 5350             | P6C | 119 |
| 32 | 30.08S   | 142       | 20.03W         | 4500             | P6C | 118 |
| 32 | 29.87S   | 141       | 29.63W         | 4510             | P6C | 117 |
| 32 | 29.85S   | 140       | 40.23W         | 4912             | P6C | 116 |
| 32 | 29.97S   | 139       | 59.85W         | 4690             | P6C | 115 |
| 32 | 29.97S   | 139       | 20.16W         | 4930             | P6C | 114 |
| 32 | 30.00S   | 138       | 39.83W         | 4579             | P6C | 113 |
| 32 | 30.00S   | 138       | 00.00W         | 4450             | P6C | 112 |
| 32 | 29.95S   | 137       | 20.13W         | 4310             | P6C | 111 |
| 32 | 29.81S   | 136       | 39.90W         | 4328             | P6C | 110 |
| 32 | 29.99S   | 136       | 00.11W         | 4310             | P6C | 109 |
| 32 | 30.06S   | 135       | 20.07W         | 4330             | P6C | 108 |
| 32 | 30.03S   | 134       | 39.84W         | 4263             | P6C | 107 |
| 32 | 29.97S   | 134       | 00.25W         | 4180             | P6C | 106 |
| 32 | 30.18S   | 133       | 20.53W         | 4240             | P6C | 105 |
| 32 | 29.97S   | 132       | 39.85W         | 4350             | P6C | 104 |
| 32 | 29.86S   | 132       | 00.49W         | 4260             | P6C | 103 |
| 32 | 30.10S   | 131       | 20.03W         | 4165             | P6C | 102 |
| 32 | 29.99S   | 130       | 39.94W         | 3470             | P6C | 101 |
| 32 | 30.09S   | 130       | 00.03W         | 3890             | P6C | 100 |
| 32 | 29.93S   | 129       | 19.76W         | 4090             | P6C | 099 |
| 32 | 29.70S   | 128       | 40.42W         | 4222             | P6C | 098 |
| 32 | 30.06S   | 128       | 00.06W         | 4020             | P6C | 097 |
| 32 | 29.97S   | 127       | 19.70W         | 3220             | P6C | 096 |
| 32 | 30.02S   | 126       | 40.05W         | 2360             | P6C | 095 |
| 32 | 29.80S   | 125       | 59.60W         | 3520             | P6C | 094 |
| 32 | 30.56S   | 125       | 19.95W         | 2258             | P6C | 093 |
| 32 | 30.21S   | 124       | 40.02W         | 3720             | P6C | 092 |
| 32 | 29.85S   | 123       | 59.95W         | 2300             | P6C | 091 |
| 32 | 29.95S   | 123       | 19.91W         | 3350             | P6C | 090 |
| 32 | 29.52S   | 122       | 39.46W         | 2230             | P6C | 089 |
| 32 | 30.16S   | 122       | 00.08W         | 2990             | P6C | 088 |
| 32 | 30.04S   | 121       | 19.32W         | 3241             | P6C | 087 |
| 32 | 30.12S   | 120       | 40.02W         | 3345             | P6C | 086 |
| 32 | 30.06S   | 119       | 59.52W         | 2970             | P6C | 085 |
| 32 | 30.06S   | 119       | 20.14W         | 3460             | P6C | 084 |
| 32 | 30.01S   | 118       | 39.56W         | 3365             | P6C | 083 |
| 32 | 30.19S   | 117       | 59.28W         | 3420             | P6C | 082 |
| 32 | 29.94S   | 117       | 19.18W         | 3280             | P6C | 081 |
| 32 | 29.70S   | 116       | 39.08W         | 2200             | P6C | 080 |
| 32 | 29.48S   | 116       | 00.73W         | 3120             | P6C | 079 |
| 32 | 30.04S   | 115       | 19.92W         | 3230             | P6C | 078 |
| 32 | 30.00S   | 114       | 40.09W         | 2925             | P6C | 077 |
| 32 | 30.19S   | 113       | 59.89W         | 2800             | P6C | 076 |

|    |        |     |        |      |     |     |
|----|--------|-----|--------|------|-----|-----|
| 32 | 30.24S | 113 | 20.24W | 2800 | P6C | 075 |
| 32 | 29.88S | 112 | 40.24W | 2685 | P6E | 072 |
| 32 | 29.92S | 111 | 59.94W | 2720 | P6E | 071 |
| 32 | 29.93S | 111 | 20.06W | 2425 | P6E | 070 |
| 32 | 30.02S | 110 | 40.02W | 3005 | P6E | 069 |
| 32 | 30.13S | 110 | 00.06W | 2750 | P6E | 068 |
| 32 | 30.00S | 109 | 20.16W | 4350 | P6E | 067 |
| 32 | 30.06S | 108 | 39.93W | 2870 | P6E | 066 |
| 32 | 29.99S | 108 | 00.10W | 3225 | P6E | 065 |
| 32 | 29.94S | 107 | 19.92W | 3260 | P6E | 064 |
| 32 | 30.06S | 106 | 40.02W | 3320 | P6E | 063 |
| 32 | 30.00S | 106 | 00.07W | 3365 | P6E | 062 |
| 32 | 30.09S | 105 | 20.08W | 3230 | P6E | 061 |
| 32 | 29.93S | 104 | 40.13W | 3500 | P6E | 060 |
| 32 | 30.02S | 104 | 00.13W | 3010 | P6E | 059 |
| 32 | 30.02S | 103 | 20.04W | 3775 | P6E | 058 |
| 32 | 29.91S | 102 | 39.91W | 3610 | P6E | 057 |
| 32 | 29.96S | 102 | 00.11W | 3830 | P6E | 056 |
| 32 | 30.09S | 101 | 30.11W | 3604 | P6E | 055 |
| 32 | 29.94S | 100 | 39.98W | 3460 | P6E | 054 |
| 32 | 29.89S | 99  | 59.95W | 3760 | P6E | 053 |
| 32 | 29.75S | 99  | 20.09W | 3930 | P6E | 052 |
| 32 | 30.04S | 98  | 40.03W | 3820 | P6E | 051 |
| 32 | 30.09S | 97  | 59.93W | 2735 | P6E | 050 |
| 32 | 29.93S | 97  | 20.08W | 3595 | P6E | 049 |
| 32 | 29.93S | 96  | 39.66W | 3875 | P6E | 048 |
| 32 | 30.00S | 96  | 00.09W | 3850 | P6E | 047 |
| 32 | 30.16S | 95  | 20.16W | 3775 | P6E | 046 |
| 32 | 29.91S | 94  | 39.98W | 3690 | P6E | 045 |
| 32 | 30.20S | 94  | 00.05W | 3935 | P6E | 044 |
| 32 | 30.14S | 93  | 20.26W | 2700 | P6E | 043 |
| 32 | 30.04S | 92  | 40.09W | 4615 | P6E | 042 |
| 32 | 30.01S | 91  | 59.89W | 3570 | P6E | 041 |
| 32 | 29.96S | 91  | 19.90W | 3121 | P6E | 040 |
| 32 | 30.00S | 90  | 40.09W | 3700 | P6E | 039 |
| 32 | 30.10S | 90  | 00.10W | 3680 | P6E | 038 |
| 32 | 30.02S | 89  | 20.04W | 3360 | P6E | 037 |
| 32 | 29.98S | 88  | 40.02W | 3740 | P6E | 036 |
| 32 | 30.04S | 88  | 00.04W | 3730 | P6E | 035 |
| 32 | 30.24S | 87  | 19.98W | 3830 | P6E | 034 |
| 32 | 30.02S | 86  | 40.00W | 3775 | P6E | 033 |
| 32 | 29.79S | 86  | 19.73W | 3927 | P6E | 032 |
| 32 | 29.83S | 85  | 20.03W | 3985 | P6E | 031 |
| 32 | 29.94S | 84  | 40.25W | 3810 | P6E | 030 |
| 32 | 30.00S | 84  | 00.37W | 3800 | P6E | 029 |
| 32 | 30.04S | 83  | 20.09W | 3765 | P6E | 028 |
| 32 | 30.04S | 82  | 39.83W | 3900 | P6E | 027 |
| 32 | 29.64S | 82  | 00.03W | 3990 | P6E | 026 |
| 32 | 29.80S | 81  | 19.91W | 3920 | P6E | 025 |
| 32 | 30.00S | 80  | 39.90W | 3920 | P6E | 024 |
| 32 | 30.12S | 79  | 59.83W | 2740 | P6E | 023 |
| 32 | 29.74S | 79  | 20.15W | 3730 | P6E | 022 |
| 32 | 30.32S | 78  | 39.63W | 4020 | P6E | 021 |
| 32 | 30.16S | 78  | 00.25W | 4010 | P6E | 020 |
| 32 | 29.80S | 77  | 19.45W | 3575 | P6E | 019 |
| 32 | 30.10S | 76  | 40.05W | 4230 | P6E | 018 |
| 32 | 29.99S | 76  | 00.14W | 4170 | P6E | 017 |
| 32 | 29.91S | 75  | 19.89W | 4180 | P6E | 016 |
| 32 | 29.90S | 74  | 40.30W | 3700 | P6E | 015 |
| 32 | 29.78S | 73  | 59.98W | 4100 | P6E | 014 |

|    |        |    |        |      |     |     |
|----|--------|----|--------|------|-----|-----|
| 32 | 29.95S | 73 | 20.18W | 3730 | P6E | 013 |
| 32 | 30.21S | 72 | 59.85W | 4640 | P6E | 012 |
| 32 | 29.71S | 72 | 42.95W | 5320 | P6E | 011 |
| 32 | 29.83S | 72 | 29.53W | 4460 | P6E | 010 |
| 32 | 28.73S | 72 | 19.78W | 3270 | P6E | 009 |
| 32 | 29.95S | 72 | 10.29W | 2000 | P6E | 008 |
| 32 | 29.45S | 71 | 59.91W | 2450 | P6E | 007 |
| 32 | 30.01S | 71 | 49.97W | 2030 | P6E | 006 |
| 32 | 30.08S | 71 | 40.06W | 490  | P6E | 005 |
| 32 | 29.96S | 71 | 30.11W | 119  | P6E | 004 |

Leg4            A10

|    | Latitude | Longitude | Water<br>Dept. | Original<br>Sta. |     |     |
|----|----------|-----------|----------------|------------------|-----|-----|
| 27 | 43.67S   | 47        | 22.98W         | 180              | A10 | 622 |
| 27 | 46.23S   | 47        | 12.15W         | 327              | A10 | 623 |
| 27 | 48.87S   | 47        | 01.43W         | 534              | A10 | 624 |
| 27 | 51.55S   | 46        | 50.75W         | 758              | A10 | 625 |
| 27 | 54.48S   | 46        | 39.92W         | 1254             | A10 | 626 |
| 27 | 57.10S   | 46        | 29.09W         | 1699             | A10 | 627 |
| 27 | 59.83S   | 46        | 18.50W         | 2226             | A10 | 628 |
| 28 | 02.69S   | 46        | 07.60W         | 2418             | A10 | 629 |
| 28 | 05.43S   | 45        | 56.60W         | 2600             | A10 | 630 |
| 28 | 09.58S   | 45        | 40.62W         | 2795             | A10 | 631 |
| 28 | 13.63S   | 45        | 24.46W         | 2970             | A10 | 632 |
| 28 | 25.25S   | 44        | 46.87W         | 3521             | A10 | 001 |
| 28 | 37.04S   | 44        | 13.15W         | 3699             | A10 | 002 |
| 28 | 50.08S   | 43        | 35.03W         | 3891             | A10 | 003 |
| 29 | 02.20S   | 42        | 54.60W         | 4005             | A10 | 004 |
| 29 | 13.92S   | 42        | 19.64W         | 3995             | A10 | 005 |
| 29 | 25.40S   | 41        | 44.40W         | 3868             | A10 | 006 |
| 29 | 36.73S   | 41        | 09.66W         | 3792             | A10 | 007 |
| 29 | 48.50S   | 40        | 35.00W         | 3781             | A10 | 008 |
| 30 | 00.26S   | 40        | 00.07W         | 3189             | A10 | 009 |
| 30 | 00.15S   | 39        | 31.83W         | 3964             | A10 | 010 |
| 29 | 59.98S   | 39        | 22.87W         | 4890             | A10 | 011 |
| 30 | 00.15S   | 38        | 55.02W         | 4277             | A10 | 012 |
| 30 | 00.00S   | 38        | 30.19W         | 4220             | A10 | 013 |
| 30 | 00.07S   | 38        | 00.02W         | 3870             | A10 | 014 |
| 29 | 59.99S   | 37        | 29.65W         | 3210             | A10 | 015 |
| 30 | 00.00S   | 37        | 10.13W         | 2343             | A10 | 016 |
| 30 | 00.15S   | 36        | 49.56W         | 1580             | A10 | 017 |
| 30 | 00.05S   | 36        | 29.95W         | 1792             | A10 | 018 |
| 30 | 00.00S   | 36        | 10.04W         | 1250             | A10 | 019 |
| 30 | 00.09S   | 35        | 49.96W         | 2415             | A10 | 020 |
| 30 | 00.07S   | 35        | 29.26W         | 2310             | A10 | 021 |
| 29 | 59.94S   | 35        | 10.09W         | 2152             | A10 | 022 |
| 30 | 00.02S   | 34        | 49.83W         | 1675             | A10 | 023 |
| 30 | 00.06S   | 34        | 30.03W         | 1440             | A10 | 024 |
| 29 | 59.81S   | 33        | 59.89W         | 2009             | A10 | 025 |
| 30 | 00.03S   | 33        | 30.02W         | 3166             | A10 | 026 |
| 29 | 59.60S   | 33        | 00.00W         | 3530             | A10 | 027 |
| 30 | 00.03S   | 32        | 29.91W         | 3746             | A10 | 028 |
| 29 | 59.91S   | 32        | 00.04W         | 3830             | A10 | 029 |
| 29 | 59.98S   | 31        | 30.22W         | 3855             | A10 | 030 |
| 30 | 00.04S   | 30        | 59.75W         | 4080             | A10 | 031 |
| 29 | 59.92S   | 30        | 30.01W         | 3945             | A10 | 032 |
| 29 | 59.97S   | 29        | 59.39W         | 3520             | A10 | 033 |
| 29 | 59.97S   | 29        | 30.04W         | 2253             | A10 | 034 |

|    |        |    |        |      |     |     |
|----|--------|----|--------|------|-----|-----|
| 29 | 59.92S | 28 | 59.70W | 3198 | A10 | 035 |
| 29 | 59.77S | 28 | 25.08W | 3770 | A10 | 036 |
| 29 | 59.95S | 27 | 33.99W | 4875 | A10 | 037 |
| 29 | 59.94S | 26 | 42.97W | 5318 | A10 | 038 |
| 29 | 59.94S | 25 | 51.74W | 4410 | A10 | 039 |
| 29 | 59.84S | 25 | 00.97W | 5550 | A10 | 040 |
| 30 | 00.00S | 24 | 10.00W | 4787 | A10 | 041 |
| 30 | 00.09S | 23 | 18.95W | 4620 | A10 | 042 |
| 29 | 59.99S | 22 | 28.91W | 4635 | A10 | 043 |
| 30 | 00.00S | 21 | 37.00W | 4845 | A10 | 044 |
| 30 | 00.25S | 20 | 45.75W | 4756 | A10 | 045 |
| 29 | 59.90S | 19 | 54.93W | 4830 | A10 | 046 |
| 30 | 00.00S | 19 | 04.00W | 4000 | A10 | 047 |
| 29 | 59.95S | 18 | 23.13W | 4140 | A10 | 048 |
| 30 | 00.03S | 17 | 41.95W | 3921 | A10 | 049 |
| 29 | 59.96S | 17 | 00.70W | 3650 | A10 | 050 |
| 30 | 00.09S | 16 | 20.05W | 3706 | A10 | 051 |
| 30 | 00.04S | 15 | 40.00W | 3280 | A10 | 052 |
| 30 | 00.08S | 15 | 00.01W | 3843 | A10 | 053 |
| 29 | 59.88S | 14 | 19.80W | 2881 | A10 | 054 |
| 30 | 00.17S | 13 | 39.90W | 2298 | A10 | 055 |
| 30 | 00.20S | 12 | 59.59W | 3100 | A10 | 056 |
| 29 | 59.82S | 12 | 19.99W | 3161 | A10 | 057 |
| 29 | 59.93S | 11 | 40.45W | 3500 | A10 | 058 |
| 30 | 00.01S | 11 | 00.07W | 3756 | A10 | 059 |
| 29 | 59.80S | 10 | 19.80W | 3840 | A10 | 060 |
| 30 | 00.02S | 9  | 39.70W | 3755 | A10 | 061 |
| 30 | 00.80S | 9  | 00.50W | 3930 | A10 | 062 |
| 30 | 00.11S | 8  | 09.95W | 3931 | A10 | 063 |
| 29 | 59.99S | 7  | 20.03W | 4169 | A10 | 064 |
| 30 | 00.25S | 6  | 29.75W | 4580 | A10 | 065 |
| 30 | 00.04S | 5  | 40.08W | 4257 | A10 | 066 |
| 30 | 00.00S | 4  | 49.75W | 4260 | A10 | 067 |
| 29 | 59.70S | 4  | 00.00W | 3980 | A10 | 068 |
| 30 | 00.40S | 3  | 10.28W | 4413 | A10 | 069 |
| 29 | 59.93S | 2  | 19.58W | 4292 | A10 | 070 |
| 30 | 00.10S | 1  | 30.01W | 4740 | A10 | 071 |
| 30 | 00.96S | 0  | 43.89W | 4851 | A10 | 072 |
| 29 | 59.86S | 0  | 00.20E | 4005 | A10 | 073 |
| 29 | 51.91S | 0  | 34.01E | 3301 | A10 | 074 |
| 29 | 43.94S | 1  | 07.97E | 3740 | A10 | 075 |
| 29 | 36.09S | 1  | 41.93E | 3657 | A10 | 076 |
| 29 | 28.12S | 2  | 15.70E | 2730 | A10 | 077 |
| 29 | 20.00S | 2  | 49.85E | 4234 | A10 | 078 |
| 29 | 28.25S | 3  | 18.14E | 4770 | A10 | 079 |
| 29 | 36.69S | 3  | 46.74E | 4927 | A10 | 080 |
| 29 | 44.86S | 4  | 14.33E | 4950 | A10 | 081 |
| 29 | 45.09S | 5  | 05.90E | 5134 | A10 | 082 |
| 29 | 44.76S | 5  | 55.85E | 5178 | A10 | 083 |
| 29 | 45.05S | 6  | 46.65E | 5190 | A10 | 084 |
| 29 | 44.96S | 7  | 37.17E | 5174 | A10 | 085 |
| 29 | 44.83S | 8  | 27.88E | 5064 | A10 | 086 |
| 29 | 44.73S | 9  | 17.30E | 5010 | A10 | 087 |
| 29 | 44.98S | 10 | 08.61E | 4885 | A10 | 088 |
| 29 | 44.97S | 10 | 58.87E | 4295 | A10 | 089 |
| 29 | 44.96S | 11 | 49.27E | 4016 | A10 | 090 |
| 29 | 37.28S | 12 | 10.20E | 3820 | A10 | 091 |
| 29 | 29.94S | 12 | 28.01E | 3673 | A10 | 092 |
| 29 | 22.35S | 12 | 47.42E | 3370 | A10 | 093 |
| 29 | 14.89S | 13 | 06.27E | 3114 | A10 | 094 |

|      |        |          |           |                |                  |     |        |        |        |        |      |     |     |
|------|--------|----------|-----------|----------------|------------------|-----|--------|--------|--------|--------|------|-----|-----|
| 29   | 07.28S | 13       | 25.18E    | 2680           | A10              | 095 | 20     | 22.01S | 57     | 57.93E | 1415 | I03 | 539 |
| 28   | 59.94S | 13       | 43.74E    | 2160           | A10              | 096 | 20     | 22.02S | 58     | 00.37E | 2518 | I03 | 538 |
| 28   | 52.67S | 14       | 02.61E    | 1530           | A10              | 097 | 20     | 21.98S | 58     | 09.29E | 4343 | I03 | 537 |
| 28   | 45.28S | 14       | 21.30E    | 501            | A10              | 098 | 20     | 22.00S | 58     | 37.04E | 4424 | I03 | 536 |
| 28   | 37.34S | 14       | 41.10E    | 160            | A10              | 099 | 20     | 22.10S | 59     | 13.52E | 4750 | I03 | 535 |
| 28   | 30.18S | 14       | 59.87E    | 175            | A10              | 100 | 20     | 22.00S | 59     | 49.31E | 3960 | I03 | 534 |
| Leg5 | I4,I3  | Latitude | Longitude | Water<br>Dept. | Original<br>Sta. | 20  | 22.05S | 60     | 22.62E | 3895   | I03  | 533 |     |
|      |        |          |           |                |                  | 20  | 21.97S | 61     | 01.80E | 3670   | I03  | 532 |     |
|      |        |          |           |                |                  | 20  | 22.11S | 61     | 38.41E | 3560   | I03  | 531 |     |
|      |        |          |           |                |                  | 20  | 22.12S | 62     | 14.23E | 3055   | I03  | 530 |     |
|      |        |          |           |                |                  | 20  | 22.06S | 62     | 50.98E | 3363   | I03  | 529 |     |
|      |        |          |           |                |                  | 20  | 22.07S | 63     | 22.87E | 2931   | I03  | 528 |     |
|      |        |          |           |                |                  | 20  | 16.57S | 63     | 53.84E | 2943   | I03  | 527 |     |
|      |        |          |           |                |                  | 20  | 11.01S | 64     | 25.04E | 3008   | I03  | 526 |     |
|      |        |          |           |                |                  | 20  | 05.56S | 64     | 55.98E | 2888   | I03  | 525 |     |
|      |        |          |           |                |                  | 20  | 00.07S | 65     | 25.87E | 2510   | I03  | 524 |     |
| 24   | 39.97S | 35       | 21.95E    | 120            | I04              | 610 | 20     | 00.12S | 65     | 58.96E | 2260 | I03 | 523 |
| 24   | 40.00S | 35       | 29.21E    | 296            | I04              | 609 | 20     | 00.12S | 66     | 32.05E | 2350 | I03 | 522 |
| 24   | 40.17S | 35       | 33.01E    | 583            | I04              | 608 | 20     | 00.07S | 67     | 05.94E | 2387 | I03 | 521 |
| 24   | 39.95S | 35       | 43.23E    | 920            | I04              | 607 | 20     | 00.06S | 67     | 39.08E | 2851 | I03 | 520 |
| 24   | 40.04S | 35       | 53.46E    | 1214           | I04              | 606 | 19     | 59.97S | 68     | 12.93E | 2504 | I03 | 519 |
| 24   | 39.96S | 35       | 59.96E    | 1637           | I04              | 605 | 20     | 00.03S | 68     | 47.98E | 2630 | I03 | 518 |
| 24   | 39.64S | 36       | 14.97E    | 2170           | I04              | 604 | 20     | 00.11S | 69     | 22.06E | 3307 | I03 | 517 |
| 24   | 39.53S | 36       | 30.12E    | 2120           | I04              | 603 | 20     | 00.07S | 69     | 47.92E | 3600 | I03 | 516 |
| 24   | 39.97S | 36       | 45.02E    | 2175           | I04              | 602 | 20     | 00.12S | 70     | 14.92E | 3200 | I03 | 515 |
| 24   | 39.96S | 37       | 00.10E    | 3070           | I04              | 601 | 19     | 59.99S | 70     | 44.77E | 3637 | I03 | 514 |
| 24   | 40.00S | 37       | 30.07E    | 3340           | I04              | 600 | 19     | 59.95S | 71     | 14.98E | 4055 | I03 | 513 |
| 24   | 40.16S | 37       | 59.22E    | 3183           | I04              | 599 | 20     | 00.13S | 71     | 41.97E | 3495 | I03 | 512 |
| 24   | 39.98S | 38       | 30.06E    | 3367           | I04              | 598 | 20     | 00.14S | 72     | 11.83E | 3895 | I03 | 511 |
| 24   | 40.00S | 38       | 59.97E    | 3473           | I04              | 597 | 20     | 00.16S | 72     | 42.78E | 4125 | I03 | 510 |
| 24   | 40.05S | 39       | 30.08E    | 3568           | I04              | 596 | 19     | 59.99S | 73     | 11.92E | 4245 | I03 | 509 |
| 24   | 39.97S | 39       | 59.93E    | 3527           | I04              | 595 | 19     | 59.90S | 73     | 39.94E | 4110 | I03 | 508 |
| 24   | 39.98S | 40       | 30.01E    | 3575           | I04              | 594 | 20     | 00.02S | 74     | 10.05E | 4950 | I03 | 507 |
| 24   | 40.06S | 40       | 59.95E    | 3615           | I04              | 593 | 20     | 00.00S | 74     | 43.97E | 4810 | I03 | 506 |
| 24   | 40.00S | 41       | 29.95E    | 3684           | I04              | 592 | 20     | 00.00S | 75     | 27.49E | 4370 | I03 | 505 |
| 24   | 39.92S | 41       | 59.85E    | 3750           | I04              | 591 | 19     | 59.99S | 76     | 11.10E | 4605 | I03 | 504 |
| 24   | 39.96S | 42       | 29.91E    | 3572           | I04              | 590 | 19     | 59.95S | 76     | 54.43E | 5010 | I03 | 503 |
| 24   | 39.91S | 43       | 00.08E    | 3697           | I04              | 589 | 19     | 59.99S | 77     | 37.97E | 5090 | I03 | 502 |
| 24   | 39.78S | 43       | 20.21E    | 3853           | I04              | 588 | 20     | 00.05S | 78     | 21.51E | 4507 | I03 | 501 |
| 24   | 40.30S | 43       | 33.06E    | 3005           | I04              | 587 | 19     | 59.98S | 79     | 05.09E | 4835 | I03 | 500 |
| 24   | 40.02S | 43       | 48.24E    | 1945           | I04              | 586 | 20     | 00.09S | 79     | 48.49E | 4772 | I03 | 499 |
| 24   | 39.88S | 43       | 52.25E    | 993            | I04              | 585 | 19     | 59.90S | 80     | 32.10E | 4760 | I03 | 498 |
| 20   | 00.05S | 48       | 55.00E    | 225            | I03              | 562 | 20     | 00.04S | 81     | 16.01E | 4530 | I03 | 497 |
| 20   | 00.05S | 48       | 59.45E    | 1030           | I03              | 561 | 19     | 59.97S | 81     | 59.99E | 4830 | I03 | 496 |
| 20   | 00.16S | 49       | 08.98E    | 2280           | I03              | 560 | 19     | 59.97S | 82     | 44.01E | 5200 | I03 | 495 |
| 19   | 59.98S | 49       | 23.38E    | 2910           | I03              | 559 | 20     | 00.00S | 83     | 23.98E | 5152 | I03 | 494 |
| 20   | 00.03S | 49       | 38.00E    | 3640           | I03              | 558 | 20     | 00.02S | 84     | 01.96E | 4775 | I03 | 493 |
| 20   | 00.08S | 50       | 03.95E    | 4332           | I03              | 557 | 19     | 59.98S | 84     | 39.83E | 4880 | I03 | 492 |
| 20   | 00.03S | 50       | 35.96E    | 4738           | I03              | 556 | 20     | 00.01S | 85     | 17.96E | 4862 | I03 | 491 |
| 20   | 00.02S | 50       | 59.97E    | 4827           | I03              | 555 | 19     | 59.96S | 85     | 56.00E | 4355 | I03 | 490 |
| 20   | 00.05S | 51       | 17.93E    | 4875           | I03              | 554 | 19     | 59.97S | 86     | 28.99E | 4338 | I03 | 489 |
| 19   | 59.94S | 51       | 47.03E    | 4910           | I03              | 553 | 19     | 59.95S | 86     | 54.48E | 3530 | I03 | 488 |
| 20   | 00.02S | 52       | 16.04E    | 4916           | I03              | 552 | 20     | 00.03S | 87     | 19.95E | 2017 | I03 | 487 |
| 19   | 59.93S | 52       | 47.09E    | 4906           | I03              | 551 | 20     | 00.01S | 87     | 44.93E | 1800 | I03 | 486 |
| 19   | 59.95S | 53       | 20.00E    | 4879           | I03              | 550 | 20     | 00.03S | 88     | 09.96E | 2319 | I03 | 485 |
| 19   | 59.98S | 53       | 53.05E    | 4846           | I03              | 549 | 20     | 00.07S | 88     | 30.86E | 3147 | I03 | 484 |
| 20   | 00.03S | 54       | 25.99E    | 4050           | I03              | 548 | 20     | 00.01S | 88     | 54.97E | 4970 | I03 | 483 |
| 20   | 00.00S | 54       | 59.03E    | 4385           | I03              | 547 | 19     | 59.98S | 89     | 27.95E | 5120 | I03 | 482 |
| 20   | 00.01S | 55       | 32.00E    | 4378           | I03              | 546 | 20     | 00.05S | 89     | 58.99E | 4640 | I03 | 481 |
| 20   | 00.09S | 56       | 04.98E    | 4372           | I03              | 545 | 20     | 00.04S | 90     | 17.05E | 5262 | I03 | 480 |
| 20   | 00.11S | 56       | 37.93E    | 4352           | I03              | 544 |        |        |        |        |      |     |     |
| 19   | 59.96S | 57       | 02.95E    | 4355           | I03              | 543 |        |        |        |        |      |     |     |
| 19   | 59.98S | 57       | 17.04E    | 3375           | I03              | 542 |        |        |        |        |      |     |     |
| 20   | 00.00S | 57       | 24.98E    | 2578           | I03              | 541 |        |        |        |        |      |     |     |
| 19   | 59.96S | 57       | 29.20E    | 1442           | I03              | 540 |        |        |        |        |      |     |     |

|    |        |     |        |      |     |     |    |        |     |        |      |     |     |
|----|--------|-----|--------|------|-----|-----|----|--------|-----|--------|------|-----|-----|
| 19 | 59.99S | 90  | 48.93E | 5105 | I03 | 479 | 20 | 00.02S | 104 | 53.12E | 5720 | I03 | 461 |
| 20 | 00.53S | 91  | 19.39E | 4765 | I03 | 478 | 19 | 59.94S | 105 | 44.95E | 5290 | I03 | 460 |
| 20 | 00.06S | 91  | 48.97E | 5008 | I03 | 477 | 20 | 00.13S | 106 | 36.97E | 5493 | I03 | 459 |
| 20 | 00.02S | 92  | 21.17E | 5115 | I03 | 476 | 20 | 00.07S | 107 | 30.03E | 5353 | I03 | 458 |
| 20 | 00.00S | 92  | 48.00E | 4970 | I03 | 475 | 20 | 18.89S | 108 | 08.80E | 4975 | I03 | 457 |
| 20 | 00.04S | 93  | 31.93E | 5245 | I03 | 474 | 20 | 37.93S | 108 | 47.92E | 5033 | I03 | 456 |
| 20 | 00.04S | 94  | 18.02E | 5083 | I03 | 473 | 20 | 49.96S | 109 | 26.37E | 5040 | I03 | 455 |
| 20 | 00.00S | 95  | 10.94E | 5240 | I03 | 472 | 21 | 09.03S | 110 | 08.97E | 5040 | I03 | 454 |
| 20 | 00.06S | 96  | 03.96E | 5092 | I03 | 471 | 21 | 20.97S | 110 | 43.93E | 5026 | I03 | 453 |
| 19 | 59.97S | 96  | 57.08E | 5300 | I03 | 470 | 21 | 40.05S | 111 | 21.98E | 5030 | I03 | 452 |
| 19 | 59.99S | 97  | 49.91E | 5795 | I03 | 469 | 21 | 49.94S | 111 | 53.93E | 4927 | I03 | 451 |
| 20 | 00.00S | 98  | 42.99E | 6233 | I03 | 468 | 22 | 00.10S | 112 | 22.86E | 4250 | I03 | 450 |
| 20 | 00.11S | 99  | 35.07E | 5780 | I03 | 467 | 22 | 04.77S | 112 | 48.98E | 2220 | I03 | 449 |
| 20 | 00.00S | 100 | 27.93E | 5875 | I03 | 466 | 22 | 08.08S | 113 | 10.11E | 1309 | I03 | 448 |
| 20 | 00.05S | 101 | 20.90E | 5610 | I03 | 465 | 22 | 10.64S | 113 | 26.29E | 1295 | I03 | 447 |
| 20 | 00.03S | 102 | 14.12E | 5992 | I03 | 464 | 22 | 12.09S | 113 | 35.80E | 862  | I03 | 446 |
| 20 | 00.02S | 103 | 06.97E | 5650 | I03 | 463 | 22 | 12.91S | 113 | 41.76E | 407  | I03 | 445 |
| 19 | 59.96S | 104 | 00.05E | 5515 | I03 | 462 | 22 | 13.49S | 113 | 45.51E | 155  | I03 | 444 |

#### Leg6 Location of planned observational stations

| Latitude |    |    |   | Longitude |    |   |
|----------|----|----|---|-----------|----|---|
| 1        | 40 | 0  | S | 95        | 0  | E |
| 2        | 52 | 0  | S | 75        | 0  | E |
| 3        | 54 | 0  | S | 77        | 0  | E |
| 4        | 58 | 13 | S | 82        | 0  | E |
| 5        | 57 | 55 | S | 82        | 14 | E |
| 6        | 57 | 37 | S | 82        | 24 | E |
| 7        | 57 | 31 | S | 82        | 32 | E |
| 8        | 57 | 20 | S | 82        | 48 | E |
| 9        | 56 | 54 | S | 83        | 18 | E |
| 10       | 56 | 29 | S | 83        | 46 | E |
| 11       | 55 | 13 | S | 85        | 11 | E |
| 12       | 53 | 57 | S | 86        | 34 | E |
| 13       | 52 | 41 | S | 87        | 54 | E |
| 14       | 51 | 38 | S | 89        | 0  | E |
| 15       | 50 | 34 | S | 90        | 2  | E |
| 16       | 46 | 17 | S | 91        | 13 | E |
| 17       | 45 | 0  | S | 95        | 0  | E |
| 18       | 43 | 30 | S | 97        | 30 | E |
| 19       | 42 | 0  | S | 100       | 0  | E |
| 20       | 40 | 30 | S | 102       | 30 | E |
| 21       | 39 | 0  | S | 105       | 0  | E |
| 22       | 37 | 30 | S | 107       | 30 | E |
| 23       | 36 | 0  | S | 110       | 0  | E |
| 24       | 34 | 30 | S | 112       | 30 | E |

(Remarks) Above location might be changed depending on ship time or mooring systems of related observation.