WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR WALVIS BAY PAGE 1

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.008 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0640 306.31 1.000 280.8

 2 SSA 0.082137 0.0110 14.75 1.000 201.6

 3 MM 0.544375 0.0082 240.42 1.094 254.1

 4 MSF 1.015896 0.0064 130.99 1.028 89.8

 5 MF 1.098033 0.0145 31.26 0.745 312.3

 6 2Q1 12.854286 0.0015 174.53 0.875 100.8

 7 SIGMA1 12.927140 0.0018 178.21 0.875 157.7

 8 Q1 13.398661 0.0090 214.07 0.875 354.9

 9 RHO1 13.471515 0.0023 175.75 0.875 51.8

 10 O1 13.943036 0.0144 237.31 0.875 249.0

 11 M1 14.496694 0.0039 100.28 0.893 159.3

 12 PI1 14.917865 0.0001 220.31 1.000 351.5

 13 P1 14.958931 0.0134 88.92 1.000 349.2

 14 S1 15.000000 0.0024 55.88 1.000 180.0

 15 K1 15.041069 0.0486 88.69 0.923 17.7

 16 PSI1 15.082135 0.0007 59.47 1.000 8.5

 17 PHI 15.123206 0.0013 76.73 1.000 212.4

 18 THETA1 15.512590 0.0020 103.15 0.893 218.4

 19 J1 15.585443 0.0047 134.93 0.893 275.4

 20 SO1 16.056964 0.0014 199.40 0.875 112.5

 21 OO1 16.139102 0.0042 128.21 0.634 333.6

 22 OQ2 27.341696 0.0024 19.97 0.766 243.8

 23 MNS2 27.423834 0.0030 67.75 1.055 286.3

 24 2N2 27.895355 0.0139 69.97 1.027 122.0

 25 MU2 27.968208 0.0196 72.38 1.027 179.0

 26 N2 28.439730 0.1062 83.08 1.027 16.1

 27 NU2 28.512583 0.0184 84.26 1.027 73.1

 28 OP2 28.901967 0.0024 255.49 0.875 238.1

 29 M2 28.984104 0.5002 98.42 1.027 270.2

 30 MKS2 29.066242 0.0034 147.63 0.838 124.8

 31 LMBDA2 29.455625 0.0038 69.87 1.027 287.4

 32 L2 29.528479 0.0130 110.41 1.205 348.2

 33 T2 29.958933 0.0104 111.95 1.000 2.4

 34 S2 30.000000 0.1868 116.10 1.000 0.0

 35 R2 30.041067 0.0025 50.53 1.000 177.6

 36 K2 30.082137 0.0530 111.33 0.816 214.6

 37 MSN2 30.544375 0.0007 270.37 1.055 254.1

 38 KJ2 30.626512 0.0044 287.37 0.825 293.1

 39 2SM2 31.015896 0.0004 243.49 1.027 89.8

 40 M3 43.476156 0.0060 19.68 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR WALVIS BAY PAGE 2

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 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0020 118.60 0.948 287.9

 42 SK3 45.041069 0.0022 299.21 0.923 17.7

 43 MN4 57.423834 0.0060 204.88 1.055 286.3

 44 M4 57.968208 0.0123 249.02 1.055 180.4

 45 MS4 58.984104 0.0065 333.84 1.027 270.2

 46 MK4 59.066242 0.0018 332.38 0.838 124.8

 47 S4 60.000000 0.0012 167.43 1.000 0.0

 48 SK4 60.082137 0.0020 173.82 0.816 214.6

 49 MSN6 87.423834 0.0027 172.11 1.055 286.3

 50 2MS6 87.968208 0.0105 219.87 1.055 180.4

 51 2MK6 88.050346 0.0034 225.43 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR LUDERITZ BAY PAGE 3

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 0.980 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0441 313.61 1.000 280.8

 2 SSA 0.082137 0.0211 86.07 1.000 201.6

 3 MM 0.544375 0.0083 243.03 1.094 254.1

 4 MSF 1.015896 0.0076 143.78 1.028 89.8

 5 MF 1.098033 0.0038 348.26 0.745 312.3

 6 2Q1 12.854286 0.0024 189.96 0.875 100.8

 7 SIGMA1 12.927140 0.0018 212.95 0.875 157.7

 8 Q1 13.398661 0.0092 214.53 0.875 354.9

 9 RHO1 13.471515 0.0018 198.55 0.875 51.8

 10 O1 13.943036 0.0150 236.57 0.875 249.0

 11 M1 14.496694 0.0053 118.34 0.893 159.3

 12 PI1 14.917865 0.0019 136.49 1.000 351.5

 13 P1 14.958931 0.0131 98.81 1.000 349.2

 14 S1 15.000000 0.0025 336.02 1.000 180.0

 15 K1 15.041069 0.0486 104.95 0.923 17.7

 16 PSI1 15.082135 0.0013 28.38 1.000 8.5

 17 PHI 15.123206 0.0014 84.03 1.000 212.4

 18 THETA1 15.512590 0.0010 219.25 0.893 218.4

 19 J1 15.585443 0.0047 147.74 0.893 275.4

 20 SO1 16.056964 0.0015 236.72 0.875 112.5

 21 OO1 16.139102 0.0034 149.79 0.634 333.6

 22 OQ2 27.341696 0.0019 43.15 0.766 243.8

 23 MNS2 27.423834 0.0045 41.34 1.055 286.3

 24 2N2 27.895355 0.0158 59.36 1.027 122.0

 25 MU2 27.968208 0.0181 62.54 1.027 179.0

 26 N2 28.439730 0.1059 74.83 1.027 16.1

 27 NU2 28.512583 0.0186 74.53 1.027 73.1

 28 OP2 28.901967 0.0060 103.55 0.875 238.1

 29 M2 28.984104 0.4875 87.82 1.027 270.2

 30 MKS2 29.066242 0.0096 100.33 0.838 124.8

 31 LMBDA2 29.455625 0.0035 73.73 1.027 287.4

 32 L2 29.528479 0.0128 94.76 1.205 348.2

 33 T2 29.958933 0.0120 122.19 1.000 2.4

 34 S2 30.000000 0.1925 105.77 1.000 0.0

 35 R2 30.041067 0.0063 101.05 1.000 177.6

 36 K2 30.082137 0.0583 103.23 0.816 214.6

 37 MSN2 30.544375 0.0028 277.27 1.055 254.1

 38 KJ2 30.626512 0.0037 284.68 0.825 293.1

 39 2SM2 31.015896 0.0014 269.51 1.027 89.8

 40 M3 43.476156 0.0062 14.99 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR LUDERITZ BAY PAGE 4

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0010 111.24 0.948 287.9

 42 SK3 45.041069 0.0008 265.36 0.923 17.7

 43 MN4 57.423834 0.0027 186.36 1.055 286.3

 44 M4 57.968208 0.0061 217.27 1.055 180.4

 45 MS4 58.984104 0.0022 304.19 1.027 270.2

 46 MK4 59.066242 0.0011 287.06 0.838 124.8

 47 S4 60.000000 0.0021 206.38 1.000 0.0

 48 SK4 60.082137 0.0008 247.97 0.816 214.6

 49 MSN6 87.423834 0.0004 201.54 1.055 286.3

 50 2MS6 87.968208 0.0021 286.16 1.055 180.4

 51 2MK6 88.050346 0.0010 272.18 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR PORT NOLLOTH PAGE 5

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.174 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0335 295.27 1.000 280.8

 2 SSA 0.082137 0.0070 233.16 1.000 201.6

 3 MM 0.544375 0.0021 0.02 1.094 254.1

 4 MSF 1.015896 0.0137 194.76 1.028 89.8

 5 MF 1.098033 0.0064 269.63 0.745 312.3

 6 2Q1 12.854286 0.0018 188.73 0.875 100.8

 7 SIGMA1 12.927140 0.0022 200.30 0.875 157.7

 8 Q1 13.398661 0.0100 238.13 0.875 354.9

 9 RHO1 13.471515 0.0014 240.32 0.875 51.8

 10 O1 13.943036 0.0159 248.29 0.875 249.0

 11 M1 14.496694 0.0053 122.77 0.893 159.3

 12 PI1 14.917865 0.0010 154.02 1.000 351.5

 13 P1 14.958931 0.0144 113.05 1.000 349.2

 14 S1 15.000000 0.0050 61.55 1.000 180.0

 15 K1 15.041069 0.0551 119.75 0.923 17.7

 16 PSI1 15.082135 0.0013 139.85 1.000 8.5

 17 PHI 15.123206 0.0011 92.99 1.000 212.4

 18 THETA1 15.512590 0.0009 234.65 0.893 218.4

 19 J1 15.585443 0.0053 146.56 0.893 275.4

 20 SO1 16.056964 0.0012 13.44 0.875 112.5

 21 OO1 16.139102 0.0033 162.15 0.634 333.6

 22 OQ2 27.341696 0.0023 12.77 0.766 243.8

 23 MNS2 27.423834 0.0048 44.58 1.055 286.3

 24 2N2 27.895355 0.0183 59.66 1.027 122.0

 25 MU2 27.968208 0.0202 62.56 1.027 179.0

 26 N2 28.439730 0.1241 76.60 1.027 16.1

 27 NU2 28.512583 0.0227 77.33 1.027 73.1

 28 OP2 28.901967 0.0009 261.04 0.875 238.1

 29 M2 28.984104 0.5567 88.48 1.027 270.2

 30 MKS2 29.066242 0.0037 115.35 0.838 124.8

 31 LMBDA2 29.455625 0.0027 87.42 1.027 287.4

 32 L2 29.528479 0.0158 101.60 1.205 348.2

 33 T2 29.958933 0.0142 108.94 1.000 2.4

 34 S2 30.000000 0.2369 108.60 1.000 0.0

 35 R2 30.041067 0.0022 117.96 1.000 177.6

 36 K2 30.082137 0.0662 104.84 0.816 214.6

 37 MSN2 30.544375 0.0021 255.40 1.055 254.1

 38 KJ2 30.626512 0.0042 283.22 0.825 293.1

 39 2SM2 31.015896 0.0023 272.95 1.027 89.8

 40 M3 43.476156 0.0080 14.42 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR PORT NOLLOTH PAGE 6

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0009 36.00 0.948 287.9

 42 SK3 45.041069 0.0011 172.81 0.923 17.7

 43 MN4 57.423834 0.0024 108.66 1.055 286.3

 44 M4 57.968208 0.0073 180.12 1.055 180.4

 45 MS4 58.984104 0.0027 269.81 1.027 270.2

 46 MK4 59.066242 0.0021 257.14 0.838 124.8

 47 S4 60.000000 0.0025 267.22 1.000 0.0

 48 SK4 60.082137 0.0022 252.47 0.816 214.6

 49 MSN6 87.423834 0.0024 149.86 1.055 286.3

 50 2MS6 87.968208 0.0052 207.52 1.055 180.4

 51 2MK6 88.050346 0.0018 218.51 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR CAPE TOWN PAGE 7

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.033 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0235 152.05 1.000 280.8

 2 SSA 0.082137 0.0377 163.49 1.000 201.6

 3 MM 0.544375 0.0054 42.78 1.094 254.1

 4 MSF 1.015896 0.0166 196.40 1.028 89.8

 5 MF 1.098033 0.0128 148.55 0.745 312.3

 6 2Q1 12.854286 0.0029 217.64 0.875 100.8

 7 SIGMA1 12.927140 0.0022 235.79 0.875 157.7

 8 Q1 13.398661 0.0093 249.63 0.875 354.9

 9 RHO1 13.471515 0.0018 297.46 0.875 51.8

 10 O1 13.943036 0.0132 260.98 0.875 249.0

 11 M1 14.496694 0.0048 145.91 0.893 159.3

 12 PI1 14.917865 0.0028 88.76 1.000 351.5

 13 P1 14.958931 0.0170 145.49 1.000 349.2

 14 S1 15.000000 0.0029 325.21 1.000 180.0

 15 K1 15.041069 0.0570 142.13 0.923 17.7

 16 PSI1 15.082135 0.0032 63.91 1.000 8.5

 17 PHI 15.123206 0.0030 49.20 1.000 212.4

 18 THETA1 15.512590 0.0004 300.15 0.893 218.4

 19 J1 15.585443 0.0045 184.69 0.893 275.4

 20 SO1 16.056964 0.0005 139.74 0.875 112.5

 21 OO1 16.139102 0.0041 174.94 0.634 333.6

 22 OQ2 27.341696 0.0032 23.64 0.766 243.8

 23 MNS2 27.423834 0.0045 46.11 1.055 286.3

 24 2N2 27.895355 0.0176 68.32 1.027 122.0

 25 MU2 27.968208 0.0191 71.50 1.027 179.0

 26 N2 28.439730 0.1114 84.12 1.027 16.1

 27 NU2 28.512583 0.0198 91.33 1.027 73.1

 28 OP2 28.901967 0.0081 179.42 0.875 238.1

 29 M2 28.984104 0.5021 93.43 1.027 270.2

 30 MKS2 29.066242 0.0081 44.41 0.838 124.8

 31 LMBDA2 29.455625 0.0028 78.40 1.027 287.4

 32 L2 29.528479 0.0157 101.65 1.205 348.2

 33 T2 29.958933 0.0126 98.54 1.000 2.4

 34 S2 30.000000 0.2221 115.87 1.000 0.0

 35 R2 30.041067 0.0085 151.09 1.000 177.6

 36 K2 30.082137 0.0588 107.55 0.816 214.6

 37 MSN2 30.544375 0.0027 278.33 1.055 254.1

 38 KJ2 30.626512 0.0045 303.41 0.825 293.1

 39 2SM2 31.015896 0.0016 304.00 1.027 89.8

 40 M3 43.476156 0.0060 19.67 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR CAPE TOWN PAGE 8

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0003 216.96 0.948 287.9

 42 SK3 45.041069 0.0021 176.60 0.923 17.7

 43 MN4 57.423834 0.0023 127.24 1.055 286.3

 44 M4 57.968208 0.0048 170.72 1.055 180.4

 45 MS4 58.984104 0.0025 248.96 1.027 270.2

 46 MK4 59.066242 0.0018 247.05 0.838 124.8

 47 S4 60.000000 0.0008 318.60 1.000 0.0

 48 SK4 60.082137 0.0007 273.31 0.816 214.6

 49 MSN6 87.423834 0.0003 160.72 1.055 286.3

 50 2MS6 87.968208 0.0011 132.16 1.055 180.4

 51 2MK6 88.050346 0.0002 93.10 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR SIMONS TOWN PAGE 9

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.097 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0046 233.48 1.000 280.8

 2 SSA 0.082137 0.0152 97.41 1.000 201.6

 3 MM 0.544375 0.0055 74.91 1.094 254.1

 4 MSF 1.015896 0.0124 179.46 1.028 89.8

 5 MF 1.098033 0.0120 202.57 0.745 312.3

 6 2Q1 12.854286 0.0029 178.42 0.875 100.8

 7 SIGMA1 12.927140 0.0019 252.18 0.875 157.7

 8 Q1 13.398661 0.0111 246.97 0.875 354.9

 9 RHO1 13.471515 0.0028 236.30 0.875 51.8

 10 O1 13.943036 0.0134 260.06 0.875 249.0

 11 M1 14.496694 0.0053 135.37 0.893 159.3

 12 PI1 14.917865 0.0016 88.32 1.000 351.5

 13 P1 14.958931 0.0158 142.52 1.000 349.2

 14 S1 15.000000 0.0031 0.85 1.000 180.0

 15 K1 15.041069 0.0594 141.97 0.923 17.7

 16 PSI1 15.082135 0.0022 178.04 1.000 8.5

 17 PHI 15.123206 0.0011 158.24 1.000 212.4

 18 THETA1 15.512590 0.0015 169.04 0.893 218.4

 19 J1 15.585443 0.0042 162.55 0.893 275.4

 20 SO1 16.056964 0.0004 174.20 0.875 112.5

 21 OO1 16.139102 0.0038 189.09 0.634 333.6

 22 OQ2 27.341696 0.0020 19.50 0.766 243.8

 23 MNS2 27.423834 0.0052 39.01 1.055 286.3

 24 2N2 27.895355 0.0179 61.90 1.027 122.0

 25 MU2 27.968208 0.0193 65.99 1.027 179.0

 26 N2 28.439730 0.1153 82.04 1.027 16.1

 27 NU2 28.512583 0.0195 83.16 1.027 73.1

 28 OP2 28.901967 0.0029 25.81 0.875 238.1

 29 M2 28.984104 0.5165 91.20 1.027 270.2

 30 MKS2 29.066242 0.0094 139.89 0.838 124.8

 31 LMBDA2 29.455625 0.0020 71.49 1.027 287.4

 32 L2 29.528479 0.0150 101.08 1.205 348.2

 33 T2 29.958933 0.0146 120.03 1.000 2.4

 34 S2 30.000000 0.2307 113.53 1.000 0.0

 35 R2 30.041067 0.0050 112.39 1.000 177.6

 36 K2 30.082137 0.0659 112.79 0.816 214.6

 37 MSN2 30.544375 0.0022 299.04 1.055 254.1

 38 KJ2 30.626512 0.0029 339.53 0.825 293.1

 39 2SM2 31.015896 0.0012 303.78 1.027 89.8

 40 M3 43.476156 0.0062 9.76 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR SIMONS TOWN PAGE 10

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0006 336.64 0.948 287.9

 42 SK3 45.041069 0.0027 162.73 0.923 17.7

 43 MN4 57.423834 0.0031 115.66 1.055 286.3

 44 M4 57.968208 0.0064 167.55 1.055 180.4

 45 MS4 58.984104 0.0033 232.25 1.027 270.2

 46 MK4 59.066242 0.0014 239.54 0.838 124.8

 47 S4 60.000000 0.0011 314.62 1.000 0.0

 48 SK4 60.082137 0.0002 321.18 0.816 214.6

 49 MSN6 87.423834 0.0006 20.92 1.055 286.3

 50 2MS6 87.968208 0.0012 119.89 1.055 180.4

 51 2MK6 88.050346 0.0004 125.44 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR MOSSEL BAY PAGE 11

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.279 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0120 146.68 1.000 280.8

 2 SSA 0.082137 0.0195 276.18 1.000 201.6

 3 MM 0.544375 0.0169 50.42 1.094 254.1

 4 MSF 1.015896 0.0271 201.71 1.028 89.8

 5 MF 1.098033 0.0439 219.92 0.745 312.3

 6 2Q1 12.854286 0.0034 261.92 0.875 100.8

 7 SIGMA1 12.927140 0.0040 259.56 0.875 157.7

 8 Q1 13.398661 0.0158 286.95 0.875 354.9

 9 RHO1 13.471515 0.0020 250.36 0.875 51.8

 10 O1 13.943036 0.0172 283.89 0.875 249.0

 11 M1 14.496694 0.0076 179.39 0.893 159.3

 12 PI1 14.917865 0.0004 121.42 1.000 351.5

 13 P1 14.958931 0.0194 158.08 1.000 349.2

 14 S1 15.000000 0.0094 44.04 1.000 180.0

 15 K1 15.041069 0.0745 166.88 0.923 17.7

 16 PSI1 15.082135 0.0022 139.60 1.000 8.5

 17 PHI 15.123206 0.0020 122.30 1.000 212.4

 18 THETA1 15.512590 0.0019 140.22 0.893 218.4

 19 J1 15.585443 0.0069 209.33 0.893 275.4

 20 SO1 16.056964 0.0018 229.64 0.875 112.5

 21 OO1 16.139102 0.0033 228.90 0.634 333.6

 22 OQ2 27.341696 0.0034 50.79 0.766 243.8

 23 MNS2 27.423834 0.0054 61.85 1.055 286.3

 24 2N2 27.895355 0.0190 79.87 1.027 122.0

 25 MU2 27.968208 0.0221 80.02 1.027 179.0

 26 N2 28.439730 0.1239 93.78 1.027 16.1

 27 NU2 28.512583 0.0219 94.96 1.027 73.1

 28 OP2 28.901967 0.0026 270.38 0.875 238.1

 29 M2 28.984104 0.5932 100.16 1.027 270.2

 30 MKS2 29.066242 0.0029 127.81 0.838 124.8

 31 LMBDA2 29.455625 0.0047 84.05 1.027 287.4

 32 L2 29.528479 0.0174 114.18 1.205 348.2

 33 T2 29.958933 0.0165 128.28 1.000 2.4

 34 S2 30.000000 0.3016 126.10 1.000 0.0

 35 R2 30.041067 0.0044 140.74 1.000 177.6

 36 K2 30.082137 0.0842 122.53 0.816 214.6

 37 MSN2 30.544375 0.0026 279.58 1.055 254.1

 38 KJ2 30.626512 0.0048 324.26 0.825 293.1

 39 2SM2 31.015896 0.0021 318.30 1.027 89.8

 40 M3 43.476156 0.0098 31.33 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR MOSSEL BAY PAGE 12

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0012 355.48 0.948 287.9

 42 SK3 45.041069 0.0090 191.87 0.923 17.7

 43 MN4 57.423834 0.0066 165.18 1.055 286.3

 44 M4 57.968208 0.0115 218.30 1.055 180.4

 45 MS4 58.984104 0.0051 298.41 1.027 270.2

 46 MK4 59.066242 0.0016 314.72 0.838 124.8

 47 S4 60.000000 0.0012 312.67 1.000 0.0

 48 SK4 60.082137 0.0010 62.58 0.816 214.6

 49 MSN6 87.423834 0.0014 315.90 1.055 286.3

 50 2MS6 87.968208 0.0032 340.32 1.055 180.4

 51 2MK6 88.050346 0.0014 289.40 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR KNYSNA PAGE 13

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.147 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0555 151.68 1.000 280.8

 2 SSA 0.082137 0.0065 356.05 1.000 201.6

 3 MM 0.544375 0.0221 18.72 1.094 254.1

 4 MSF 1.015896 0.0242 221.19 1.028 89.8

 5 MF 1.098033 0.0297 236.47 0.745 312.3

 6 2Q1 12.854286 0.0032 303.39 0.875 100.8

 7 SIGMA1 12.927140 0.0021 229.74 0.875 157.7

 8 Q1 13.398661 0.0125 299.02 0.875 354.9

 9 RHO1 13.471515 0.0034 263.68 0.875 51.8

 10 O1 13.943036 0.0152 300.09 0.875 249.0

 11 M1 14.496694 0.0072 188.98 0.893 159.3

 12 PI1 14.917865 0.0008 270.64 1.000 351.5

 13 P1 14.958931 0.0177 169.93 1.000 349.2

 14 S1 15.000000 0.0107 48.95 1.000 180.0

 15 K1 15.041069 0.0658 178.87 0.923 17.7

 16 PSI1 15.082135 0.0023 129.66 1.000 8.5

 17 PHI 15.123206 0.0013 174.03 1.000 212.4

 18 THETA1 15.512590 0.0029 165.80 0.893 218.4

 19 J1 15.585443 0.0063 224.08 0.893 275.4

 20 SO1 16.056964 0.0037 284.49 0.875 112.5

 21 OO1 16.139102 0.0032 228.56 0.634 333.6

 22 OQ2 27.341696 0.0008 30.19 0.766 243.8

 23 MNS2 27.423834 0.0046 131.48 1.055 286.3

 24 2N2 27.895355 0.0196 97.09 1.027 122.0

 25 MU2 27.968208 0.0206 141.31 1.027 179.0

 26 N2 28.439730 0.1166 109.10 1.027 16.1

 27 NU2 28.512583 0.0219 109.86 1.027 73.1

 28 OP2 28.901967 0.0073 291.46 0.875 238.1

 29 M2 28.984104 0.5545 112.84 1.027 270.2

 30 MKS2 29.066242 0.0147 248.57 0.838 124.8

 31 LMBDA2 29.455625 0.0103 54.86 1.027 287.4

 32 L2 29.528479 0.0228 110.47 1.205 348.2

 33 T2 29.958933 0.0151 107.17 1.000 2.4

 34 S2 30.000000 0.2778 142.10 1.000 0.0

 35 R2 30.041067 0.0086 245.79 1.000 177.6

 36 K2 30.082137 0.0696 138.60 0.816 214.6

 37 MSN2 30.544375 0.0081 291.62 1.055 254.1

 38 KJ2 30.626512 0.0031 18.01 0.825 293.1

 39 2SM2 31.015896 0.0079 294.53 1.027 89.8

 40 M3 43.476156 0.0072 54.81 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR KNYSNA PAGE 14

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0024 38.80 0.948 287.9

 42 SK3 45.041069 0.0077 201.62 0.923 17.7

 43 MN4 57.423834 0.0038 237.85 1.055 286.3

 44 M4 57.968208 0.0111 285.31 1.055 180.4

 45 MS4 58.984104 0.0106 352.62 1.027 270.2

 46 MK4 59.066242 0.0025 351.26 0.838 124.8

 47 S4 60.000000 0.0030 28.42 1.000 0.0

 48 SK4 60.082137 0.0013 62.74 0.816 214.6

 49 MSN6 87.423834 0.0032 356.79 1.055 286.3

 50 2MS6 87.968208 0.0105 9.37 1.055 180.4

 51 2MK6 88.050346 0.0029 26.04 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR PORT ELIZABETH PAGE 15

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.136 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0632 177.00 1.000 280.8

 2 SSA 0.082137 0.0282 269.82 1.000 201.6

 3 MM 0.544375 0.0219 31.57 1.094 254.1

 4 MSF 1.015896 0.0197 242.47 1.028 89.8

 5 MF 1.098033 0.0244 236.77 0.745 312.3

 6 2Q1 12.854286 0.0029 217.93 0.875 100.8

 7 SIGMA1 12.927140 0.0032 244.89 0.875 157.7

 8 Q1 13.398661 0.0116 275.48 0.875 354.9

 9 RHO1 13.471515 0.0018 284.88 0.875 51.8

 10 O1 13.943036 0.0140 290.58 0.875 249.0

 11 M1 14.496694 0.0048 173.33 0.893 159.3

 12 PI1 14.917865 0.0011 137.33 1.000 351.5

 13 P1 14.958931 0.0157 164.85 1.000 349.2

 14 S1 15.000000 0.0075 37.27 1.000 180.0

 15 K1 15.041069 0.0588 168.86 0.923 17.7

 16 PSI1 15.082135 0.0023 138.24 1.000 8.5

 17 PHI 15.123206 0.0012 205.38 1.000 212.4

 18 THETA1 15.512590 0.0021 215.04 0.893 218.4

 19 J1 15.585443 0.0046 221.58 0.893 275.4

 20 SO1 16.056964 0.0007 217.91 0.875 112.5

 21 OO1 16.139102 0.0025 217.24 0.634 333.6

 22 OQ2 27.341696 0.0011 339.11 0.766 243.8

 23 MNS2 27.423834 0.0046 68.50 1.055 286.3

 24 2N2 27.895355 0.0159 78.82 1.027 122.0

 25 MU2 27.968208 0.0195 79.74 1.027 179.0

 26 N2 28.439730 0.1052 95.49 1.027 16.1

 27 NU2 28.512583 0.0187 97.25 1.027 73.1

 28 OP2 28.901967 0.0028 265.22 0.875 238.1

 29 M2 28.984104 0.5234 101.38 1.027 270.2

 30 MKS2 29.066242 0.0014 135.17 0.838 124.8

 31 LMBDA2 29.455625 0.0052 78.11 1.027 287.4

 32 L2 29.528479 0.0153 113.99 1.205 348.2

 33 T2 29.958933 0.0148 125.28 1.000 2.4

 34 S2 30.000000 0.2727 129.98 1.000 0.0

 35 R2 30.041067 0.0019 152.80 1.000 177.6

 36 K2 30.082137 0.0756 126.43 0.816 214.6

 37 MSN2 30.544375 0.0022 303.36 1.055 254.1

 38 KJ2 30.626512 0.0041 314.10 0.825 293.1

 39 2SM2 31.015896 0.0027 341.56 1.027 89.8

 40 M3 43.476156 0.0064 32.70 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR PORT ELIZABETH PAGE 16

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 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0008 353.20 0.948 287.9

 42 SK3 45.041069 0.0074 202.60 0.923 17.7

 43 MN4 57.423834 0.0036 190.84 1.055 286.3

 44 M4 57.968208 0.0057 253.65 1.055 180.4

 45 MS4 58.984104 0.0024 329.93 1.027 270.2

 46 MK4 59.066242 0.0010 310.22 0.838 124.8

 47 S4 60.000000 0.0004 102.60 1.000 0.0

 48 SK4 60.082137 0.0007 17.48 0.816 214.6

 49 MSN6 87.423834 0.0004 73.42 1.055 286.3

 50 2MS6 87.968208 0.0004 52.40 1.055 180.4

 51 2MK6 88.050346 0.0002 62.51 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR EAST LONDON PAGE 17

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.047 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0444 149.04 1.000 280.8

 2 SSA 0.082137 0.0229 25.55 1.000 201.6

 3 MM 0.544375 0.0127 35.45 1.094 254.1

 4 MSF 1.015896 0.0197 242.41 1.028 89.8

 5 MF 1.098033 0.0208 326.57 0.745 312.3

 6 2Q1 12.854286 0.0021 247.63 0.875 100.8

 7 SIGMA1 12.927140 0.0016 296.75 0.875 157.7

 8 Q1 13.398661 0.0102 282.84 0.875 354.9

 9 RHO1 13.471515 0.0009 307.04 0.875 51.8

 10 O1 13.943036 0.0139 301.61 0.875 249.0

 11 M1 14.496694 0.0035 192.43 0.893 159.3

 12 PI1 14.917865 0.0014 11.46 1.000 351.5

 13 P1 14.958931 0.0171 166.12 1.000 349.2

 14 S1 15.000000 0.0118 52.51 1.000 180.0

 15 K1 15.041069 0.0548 172.08 0.923 17.7

 16 PSI1 15.082135 0.0022 163.47 1.000 8.5

 17 PHI 15.123206 0.0021 146.51 1.000 212.4

 18 THETA1 15.512590 0.0013 341.51 0.893 218.4

 19 J1 15.585443 0.0048 207.03 0.893 275.4

 20 SO1 16.056964 0.0026 260.75 0.875 112.5

 21 OO1 16.139102 0.0019 214.52 0.634 333.6

 22 OQ2 27.341696 0.0002 187.94 0.766 243.8

 23 MNS2 27.423834 0.0036 86.67 1.055 286.3

 24 2N2 27.895355 0.0130 87.88 1.027 122.0

 25 MU2 27.968208 0.0178 96.90 1.027 179.0

 26 N2 28.439730 0.0988 96.63 1.027 16.1

 27 NU2 28.512583 0.0180 100.73 1.027 73.1

 28 OP2 28.901967 0.0071 95.38 0.875 238.1

 29 M2 28.984104 0.5128 102.87 1.027 270.2

 30 MKS2 29.066242 0.0109 158.88 0.838 124.8

 31 LMBDA2 29.455625 0.0080 68.36 1.027 287.4

 32 L2 29.528479 0.0147 101.86 1.205 348.2

 33 T2 29.958933 0.0180 157.56 1.000 2.4

 34 S2 30.000000 0.2679 132.86 1.000 0.0

 35 R2 30.041067 0.0067 213.40 1.000 177.6

 36 K2 30.082137 0.0768 129.44 0.816 214.6

 37 MSN2 30.544375 0.0027 281.38 1.055 254.1

 38 KJ2 30.626512 0.0026 319.07 0.825 293.1

 39 2SM2 31.015896 0.0023 354.14 1.027 89.8

 40 M3 43.476156 0.0052 46.34 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR EAST LONDON PAGE 18

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0002 238.62 0.948 287.9

 42 SK3 45.041069 0.0056 212.73 0.923 17.7

 43 MN4 57.423834 0.0026 226.02 1.055 286.3

 44 M4 57.968208 0.0052 271.53 1.055 180.4

 45 MS4 58.984104 0.0018 5.86 1.027 270.2

 46 MK4 59.066242 0.0006 338.81 0.838 124.8

 47 S4 60.000000 0.0008 200.92 1.000 0.0

 48 SK4 60.082137 0.0004 231.95 0.816 214.6

 49 MSN6 87.423834 0.0004 324.39 1.055 286.3

 50 2MS6 87.968208 0.0008 350.26 1.055 180.4

 51 2MK6 88.050346 0.0004 344.03 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR DURBAN PAGE 19

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.152 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0221 167.07 1.000 280.8

 2 SSA 0.082137 0.0131 31.24 1.000 201.6

 3 MM 0.544375 0.0169 58.05 1.094 254.1

 4 MSF 1.015896 0.0126 218.92 1.028 89.8

 5 MF 1.098033 0.0288 346.83 0.745 312.3

 6 2Q1 12.854286 0.0036 234.28 0.875 100.8

 7 SIGMA1 12.927140 0.0023 266.02 0.875 157.7

 8 Q1 13.398661 0.0124 287.87 0.875 354.9

 9 RHO1 13.471515 0.0025 279.85 0.875 51.8

 10 O1 13.943036 0.0153 327.14 0.875 249.0

 11 M1 14.496694 0.0052 175.05 0.893 159.3

 12 PI1 14.917865 0.0017 123.18 1.000 351.5

 13 P1 14.958931 0.0150 173.82 1.000 349.2

 14 S1 15.000000 0.0099 51.48 1.000 180.0

 15 K1 15.041069 0.0533 176.25 0.923 17.7

 16 PSI1 15.082135 0.0009 161.96 1.000 8.5

 17 PHI 15.123206 0.0017 174.33 1.000 212.4

 18 THETA1 15.512590 0.0009 101.56 0.893 218.4

 19 J1 15.585443 0.0040 219.20 0.893 275.4

 20 SO1 16.056964 0.0010 240.77 0.875 112.5

 21 OO1 16.139102 0.0037 254.20 0.634 333.6

 22 OQ2 27.341696 0.0010 65.31 0.766 243.8

 23 MNS2 27.423834 0.0044 87.81 1.055 286.3

 24 2N2 27.895355 0.0126 86.56 1.027 122.0

 25 MU2 27.968208 0.0185 95.62 1.027 179.0

 26 N2 28.439730 0.1006 94.22 1.027 16.1

 27 NU2 28.512583 0.0180 95.48 1.027 73.1

 28 OP2 28.901967 0.0023 288.37 0.875 238.1

 29 M2 28.984104 0.5606 101.87 1.027 270.2

 30 MKS2 29.066242 0.0031 92.64 0.838 124.8

 31 LMBDA2 29.455625 0.0058 81.33 1.027 287.4

 32 L2 29.528479 0.0178 113.79 1.205 348.2

 33 T2 29.958933 0.0161 136.84 1.000 2.4

 34 S2 30.000000 0.3126 135.39 1.000 0.0

 35 R2 30.041067 0.0055 146.70 1.000 177.6

 36 K2 30.082137 0.0876 132.67 0.816 214.6

 37 MSN2 30.544375 0.0032 304.96 1.055 254.1

 38 KJ2 30.626512 0.0044 321.00 0.825 293.1

 39 2SM2 31.015896 0.0037 359.11 1.027 89.8

 40 M3 43.476156 0.0037 83.00 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR DURBAN PAGE 20

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0008 172.18 0.948 287.9

 42 SK3 45.041069 0.0046 233.99 0.923 17.7

 43 MN4 57.423834 0.0029 250.12 1.055 286.3

 44 M4 57.968208 0.0049 306.88 1.055 180.4

 45 MS4 58.984104 0.0016 43.51 1.027 270.2

 46 MK4 59.066242 0.0006 28.93 0.838 124.8

 47 S4 60.000000 0.0010 193.60 1.000 0.0

 48 SK4 60.082137 0.0007 286.39 0.816 214.6

 49 MSN6 87.423834 0.0003 250.64 1.055 286.3

 50 2MS6 87.968208 0.0017 345.44 1.055 180.4

 51 2MK6 88.050346 0.0004 32.04 0.838 35.0

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR RICHARDS BAY PAGE 21

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

RECORD BEGINS 2013 1 0.00 RECORD ENDS 2013 365 23.00 8760 OBSERVATIONS AT 60 MINUTE INTERVALS.

MEAN SEA LEVEL = 1.236 METRES

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 1 SA 0.041069 0.0280 145.65 1.000 280.8

 2 SSA 0.082137 0.0174 144.44 1.000 201.6

 3 MM 0.544375 0.0110 49.94 1.094 254.1

 4 MSF 1.015896 0.0105 352.97 1.028 89.8

 5 MF 1.098033 0.0109 99.26 0.745 312.3

 6 2Q1 12.854286 0.0036 281.42 0.875 100.8

 7 SIGMA1 12.927140 0.0022 285.26 0.875 157.7

 8 Q1 13.398661 0.0106 303.62 0.875 354.9

 9 RHO1 13.471515 0.0016 294.99 0.875 51.8

 10 O1 13.943036 0.0159 335.36 0.875 249.0

 11 M1 14.496694 0.0042 178.72 0.893 159.3

 12 PI1 14.917865 0.0008 256.31 1.000 351.5

 13 P1 14.958931 0.0150 170.82 1.000 349.2

 14 S1 15.000000 0.0112 64.59 1.000 180.0

 15 K1 15.041069 0.0490 178.01 0.923 17.7

 16 PSI1 15.082135 0.0002 157.65 1.000 8.5

 17 PHI 15.123206 0.0017 195.22 1.000 212.4

 18 THETA1 15.512590 0.0015 106.43 0.893 218.4

 19 J1 15.585443 0.0034 211.87 0.893 275.4

 20 SO1 16.056964 0.0001 324.71 0.875 112.5

 21 OO1 16.139102 0.0016 259.18 0.634 333.6

 22 OQ2 27.341696 0.0011 358.56 0.766 243.8

 23 MNS2 27.423834 0.0043 81.02 1.055 286.3

 24 2N2 27.895355 0.0133 86.44 1.027 122.0

 25 MU2 27.968208 0.0189 95.28 1.027 179.0

 26 N2 28.439730 0.1060 93.54 1.027 16.1

 27 NU2 28.512583 0.0200 91.13 1.027 73.1

 28 OP2 28.901967 0.0042 346.72 0.875 238.1

 29 M2 28.984104 0.6013 102.34 1.027 270.2

 30 MKS2 29.066242 0.0046 174.83 0.838 124.8

 31 LMBDA2 29.455625 0.0065 94.06 1.027 287.4

 32 L2 29.528479 0.0200 120.53 1.205 348.2

 33 T2 29.958933 0.0163 141.98 1.000 2.4

 34 S2 30.000000 0.3390 137.27 1.000 0.0

 35 R2 30.041067 0.0073 159.55 1.000 177.6

 36 K2 30.082137 0.0938 136.55 0.816 214.6

 37 MSN2 30.544375 0.0029 303.52 1.055 254.1

 38 KJ2 30.626512 0.0037 335.12 0.825 293.1

 39 2SM2 31.015896 0.0036 4.09 1.027 89.8

 40 M3 43.476156 0.0019 128.88 1.041 225.3

WTPP061P. HARMONIC ANALYSIS FOR THE YEAR 2013 FOR RICHARDS BAY PAGE 22

\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*

 NO. NAME SPEED H G N.F. E.A.

 \*\*\* \*\*\*\* \*\*\*\*\* \* \* \*\*\*\* \*\*\*\*

 41 MK3 44.025173 0.0014 232.13 0.948 287.9

 42 SK3 45.041069 0.0047 247.89 0.923 17.7

 43 MN4 57.423834 0.0030 267.17 1.055 286.3

 44 M4 57.968208 0.0048 326.43 1.055 180.4

 45 MS4 58.984104 0.0026 56.45 1.027 270.2

 46 MK4 59.066242 0.0003 35.20 0.838 124.8

 47 S4 60.000000 0.0010 161.66 1.000 0.0

 48 SK4 60.082137 0.0007 196.67 0.816 214.6

 49 MSN6 87.423834 0.0002 172.08 1.055 286.3

 50 2MS6 87.968208 0.0011 27.14 1.055 180.4

 51 2MK6 88.050346 0.0001 72.55 0.838 35.0

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 END OF REPORT FOR WTPP060T

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