

file name: E:\CSULLIVAN\SOUTH_CAROLINA\PLOTS\TTIDE\ttide_curr_732_surface.txt

date: 15-May-2006

nobs = 8187, ngood = 8186, record length (days) = 85.28

start time: 28-Oct-2003 15:00:00

rayleigh criterion = 1.0

Greenwich phase computed with nodal corrections applied to amplitude and phase relative to center time

x0= 1.1, x trend= 0

var(x)= 35.4023 var(xp)= 11.4278 var(xres)= 23.9745

percent var predicted= 32.3 %

x0= -0.58, x trend= 0

var(y)= 21.3207 var(yp)= 5.1171 var(yres)= 16.2036

percent var predicted= 24.0 %

ellipse parameters with 95% CI estimates

| tide | freq | major | emaj | minor | emin | inc | einc | pha | epha | snr |
|------|---------|-------|-------|--------|------|--------|--------|--------|--------|----------|
| MM | 0.00151 | 0.779 | 1.231 | -0.016 | 1.00 | 21.11 | 73.35 | 294.09 | 90.58 | 0.4 |
| MSF | 0.00282 | 1.454 | 1.203 | -0.103 | 1.03 | 28.43 | 40.95 | 232.33 | 47.72 | 1.5 |
| ALP1 | 0.03440 | 0.278 | 0.331 | 0.001 | 0.27 | 174.55 | 49.90 | 294.57 | 60.83 | 0.7 |
| 2Q1 | 0.03571 | 0.231 | 0.314 | 0.012 | 0.29 | 33.87 | 65.68 | 74.23 | 70.80 | 0.54 |
| Q1 | 0.03722 | 0.371 | 0.272 | -0.220 | 0.33 | 84.64 | 78.60 | 277.18 | 71.56 | 1.9 |
| O1 | 0.03873 | 0.411 | 0.294 | -0.000 | 0.31 | 53.91 | 38.25 | 354.68 | 35.99 | 2 |
| NO1 | 0.04027 | 0.224 | 0.324 | 0.003 | 0.28 | 158.53 | 66.40 | 102.73 | 76.89 | 0.48 |
| K1 | 0.04178 | 1.170 | 0.314 | 0.027 | 0.29 | 33.86 | 13.19 | 3.12 | 14.22 | 14 |
| J1 | 0.04329 | 0.262 | 0.324 | -0.052 | 0.28 | 158.48 | 59.46 | 286.81 | 68.09 | 0.65 |
| OO1 | 0.04483 | 0.072 | 0.306 | -0.042 | 0.30 | 42.14 | 282.66 | 258.62 | 285.44 | 0.056 |
| UPS1 | 0.04634 | 0.255 | 0.276 | -0.039 | 0.33 | 73.76 | 50.52 | 79.96 | 42.98 | 0.85 |
| EPS2 | 0.07618 | 0.297 | 0.180 | -0.048 | 0.17 | 75.42 | 36.22 | 227.10 | 39.20 | 2.7 |
| MU2 | 0.07769 | 0.305 | 0.176 | 0.209 | 0.17 | 123.39 | 76.90 | 260.44 | 77.95 | 3 |
| N2 | 0.07900 | 1.071 | 0.165 | 0.852 | 0.18 | 176.44 | 33.57 | 287.21 | 32.87 | 42 |
| M2 | 0.08051 | 4.272 | 0.165 | 2.783 | 0.18 | 2.06 | 5.03 | 131.79 | 4.84 | 6.7e+002 |
| L2 | 0.08202 | 0.271 | 0.166 | 0.154 | 0.18 | 164.33 | 55.98 | 304.38 | 53.70 | 2.7 |
| S2 | 0.08333 | 0.751 | 0.168 | 0.269 | 0.18 | 152.57 | 16.42 | 293.84 | 15.74 | 20 |
| ETA2 | 0.08507 | 0.054 | 0.176 | -0.025 | 0.17 | 123.64 | 212.40 | 359.81 | 217.55 | 0.094 |
| MO3 | 0.11924 | 0.099 | 0.088 | 0.032 | 0.09 | 61.24 | 52.78 | 313.78 | 53.96 | 1.3 |
| M3 | 0.12077 | 0.207 | 0.084 | 0.127 | 0.09 | 0.40 | 47.44 | 168.97 | 46.37 | 6 |
| MK3 | 0.12229 | 0.126 | 0.086 | -0.076 | 0.09 | 42.49 | 68.54 | 184.38 | 68.40 | 2.1 |
| SK3 | 0.12511 | 0.352 | 0.086 | 0.243 | 0.09 | 31.01 | 30.39 | 119.63 | 30.13 | 17 |
| MN4 | 0.15951 | 0.098 | 0.097 | -0.000 | 0.09 | 57.02 | 57.20 | 80.63 | 59.98 | 1 |
| M4 | 0.16102 | 0.150 | 0.100 | 0.026 | 0.09 | 93.70 | 37.48 | 89.54 | 41.81 | 2.3 |
| SN4 | 0.16233 | 0.062 | 0.100 | -0.034 | 0.09 | 99.10 | 142.10 | 70.22 | 150.85 | 0.38 |
| MS4 | 0.16384 | 0.202 | 0.100 | 0.012 | 0.09 | 81.64 | 26.16 | 90.46 | 29.23 | 4.1 |
| S4 | 0.16667 | 0.202 | 0.092 | 0.125 | 0.10 | 26.84 | 51.92 | 203.87 | 50.35 | 4.9 |
| 2MK5 | 0.20280 | 0.062 | 0.119 | 0.007 | 0.10 | 101.11 | 87.23 | 333.97 | 108.11 | 0.27 |
| 2SK5 | 0.20845 | 0.057 | 0.114 | 0.019 | 0.10 | 61.24 | 112.39 | 231.94 | 124.42 | 0.25 |
| 2MN6 | 0.24002 | 0.232 | 0.126 | 0.034 | 0.13 | 35.35 | 34.83 | 15.81 | 34.80 | 3.4 |
| M6 | 0.24153 | 0.318 | 0.126 | 0.016 | 0.13 | 34.41 | 24.68 | 24.42 | 24.66 | 6.3 |
| 2MS6 | 0.24436 | 0.209 | 0.126 | -0.004 | 0.13 | 20.81 | 36.37 | 63.14 | 36.31 | 2.8 |
| 2SM6 | 0.24718 | 0.078 | 0.126 | -0.004 | 0.13 | 12.18 | 95.15 | 133.46 | 94.97 | 0.38 |
| 3MK7 | 0.28331 | 0.089 | 0.076 | -0.015 | 0.08 | 124.73 | 52.12 | 153.70 | 50.81 | 1.4 |
| M8 | 0.32205 | 0.029 | 0.050 | -0.025 | 0.05 | 41.71 | 657.94 | 58.24 | 658.55 | 0.33 |

total var= 56.723 pred var= 16.5449

percent total var predicted= 29.2 %