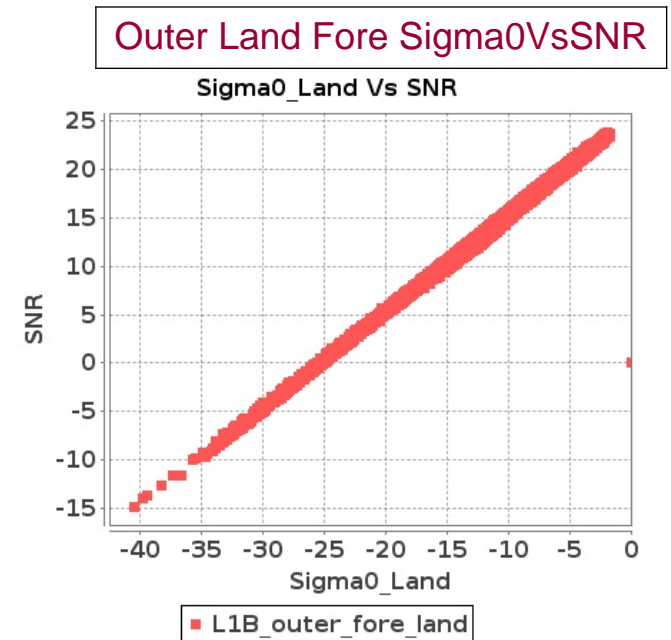
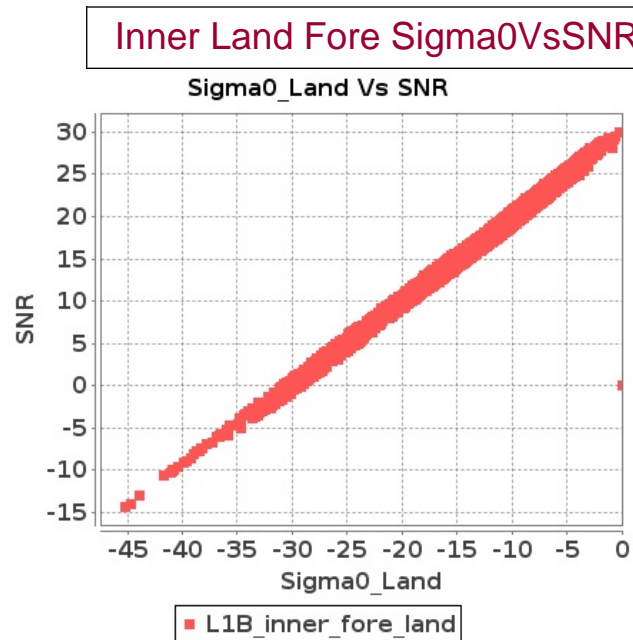
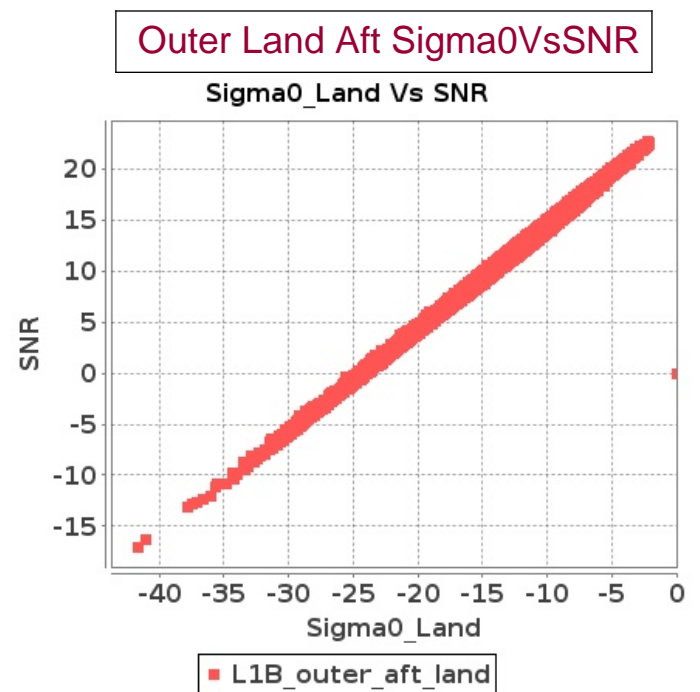
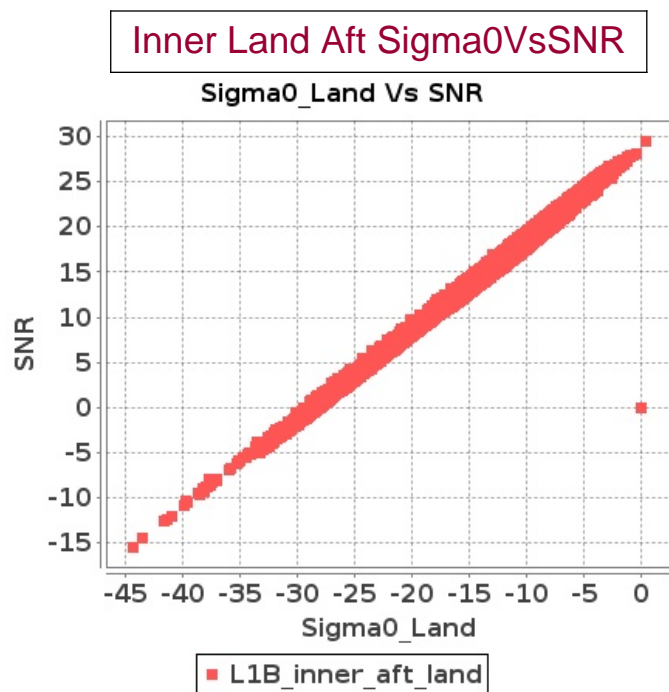
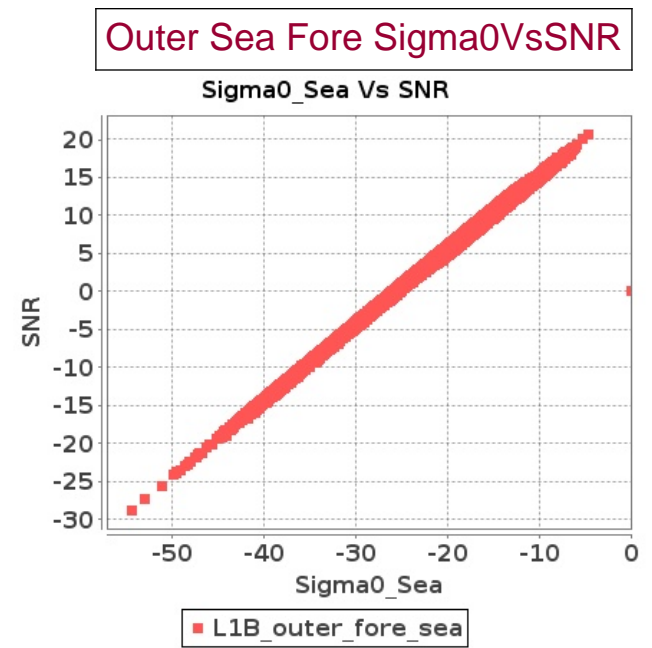
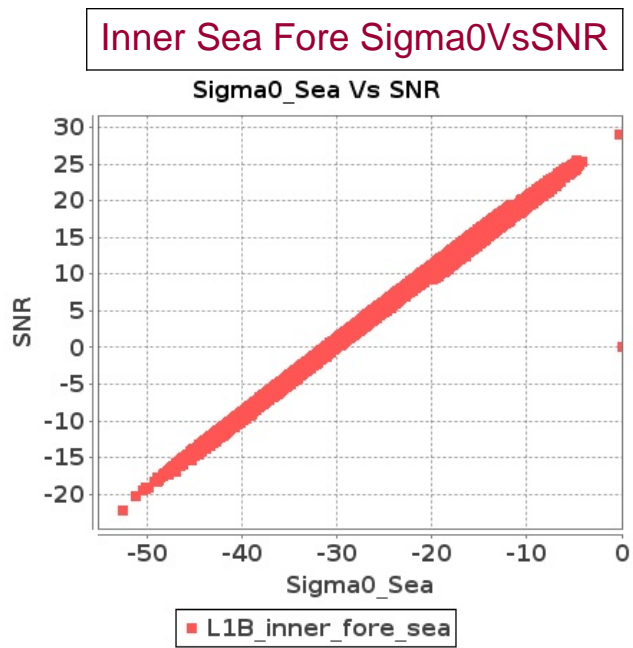
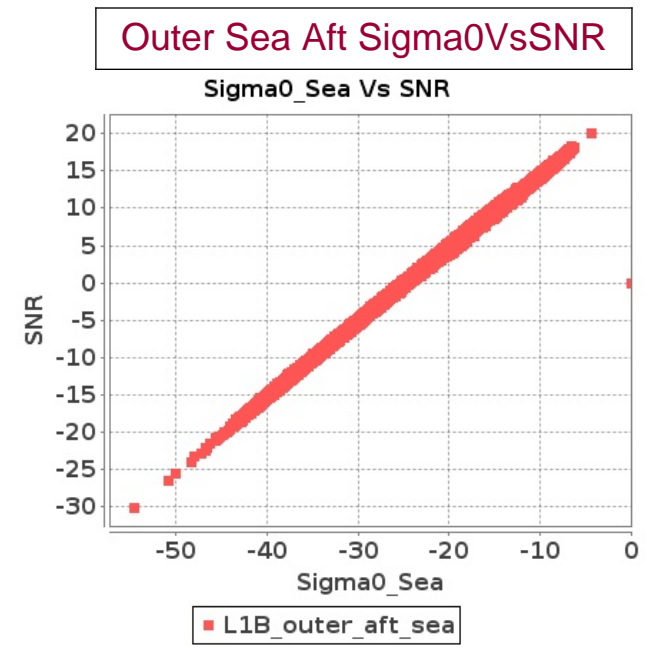
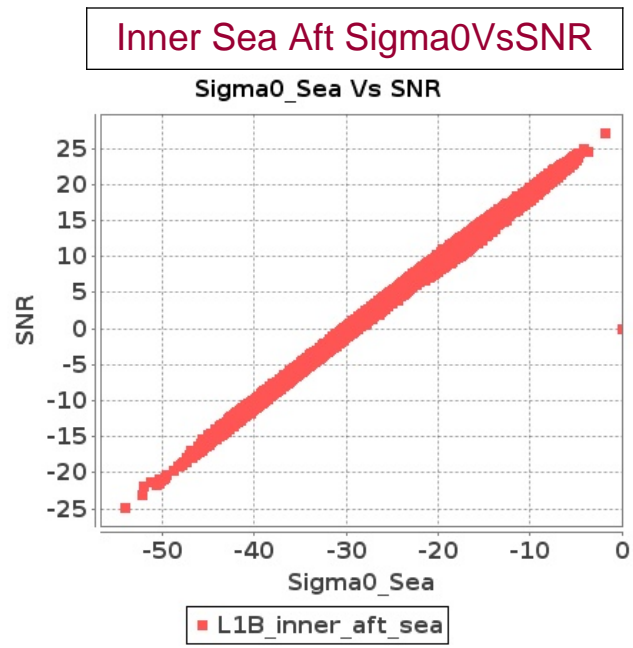
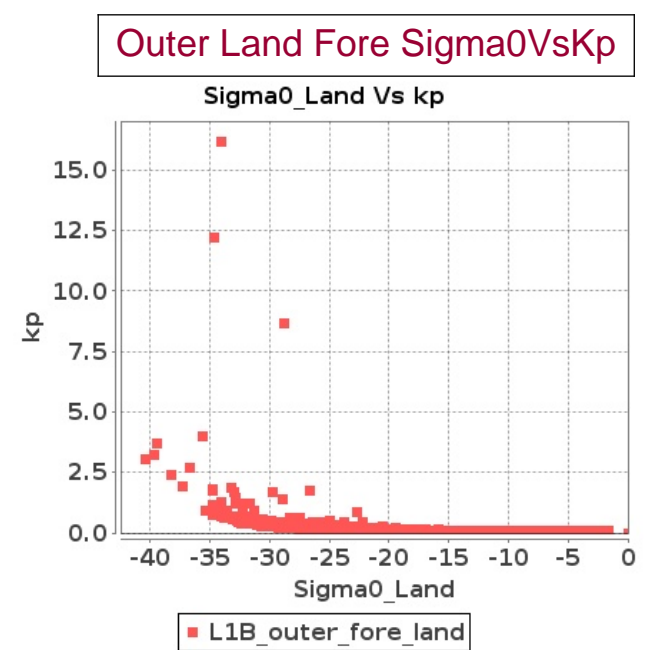
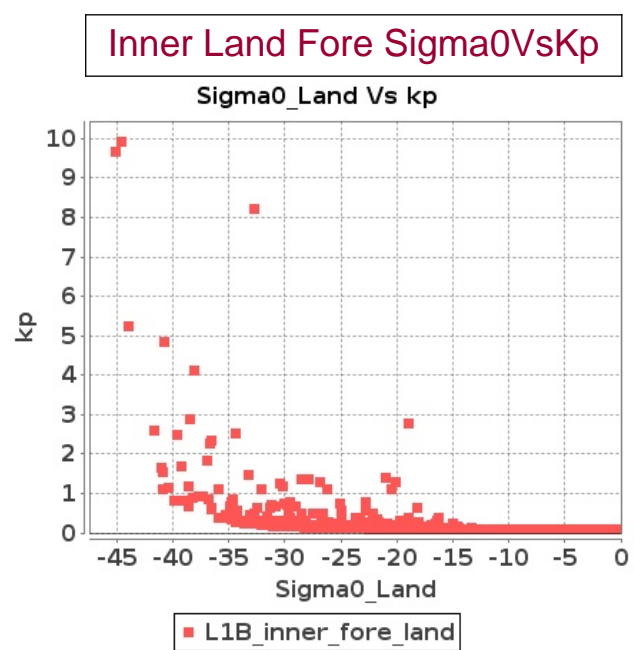
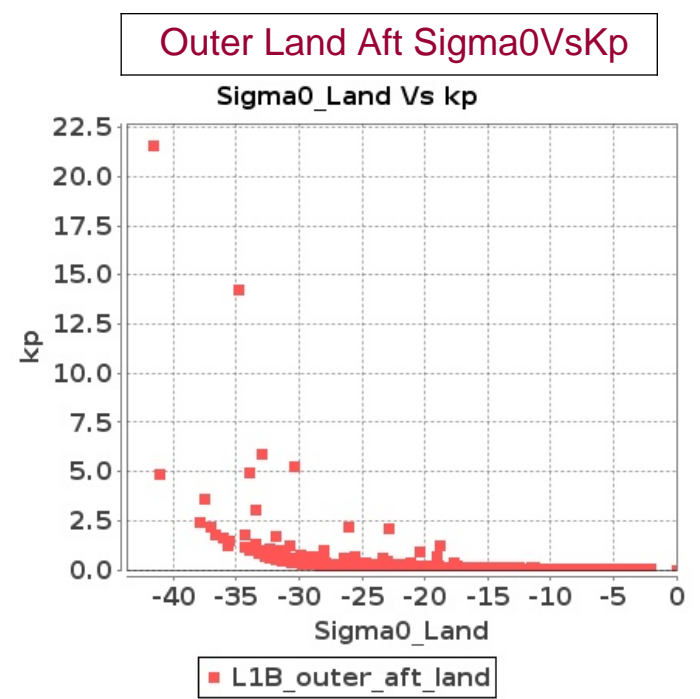
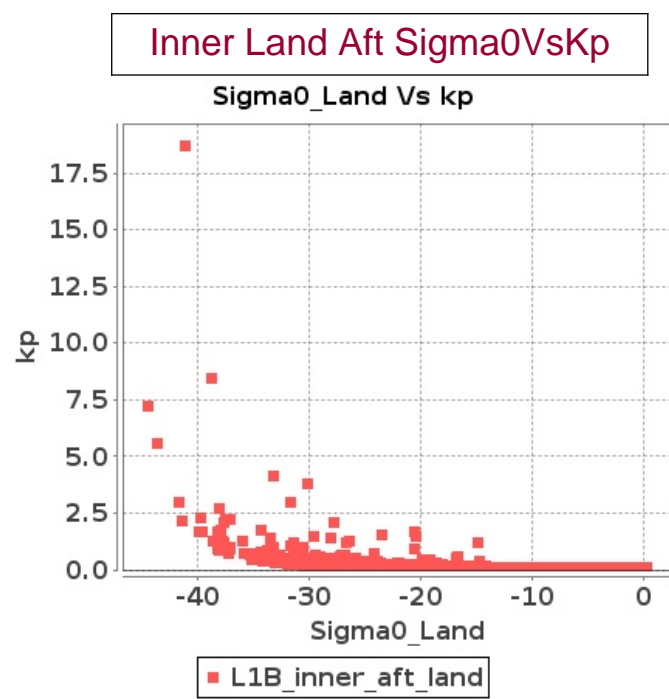
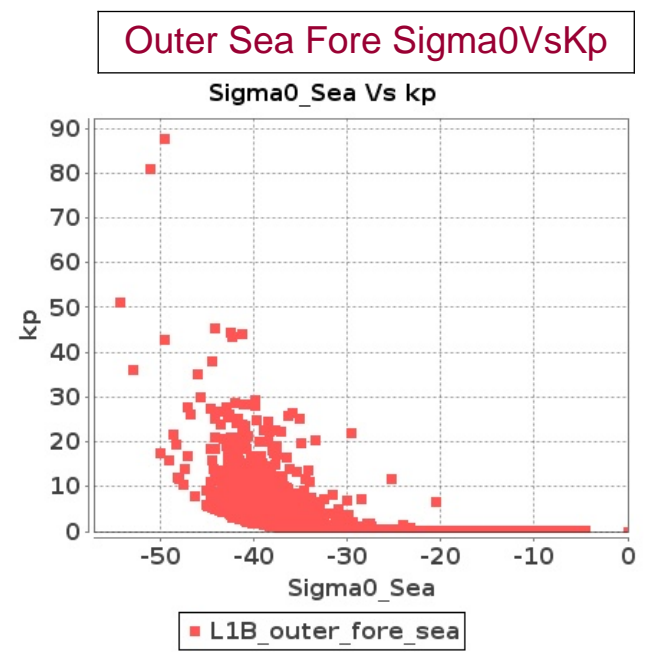
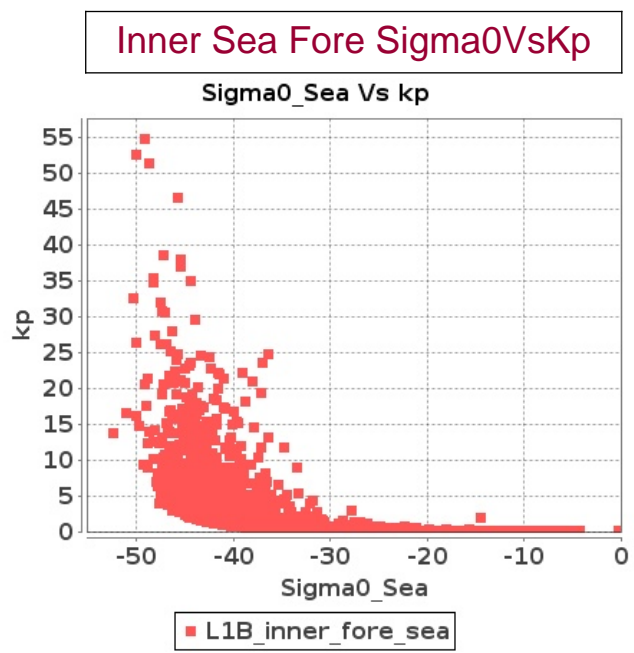
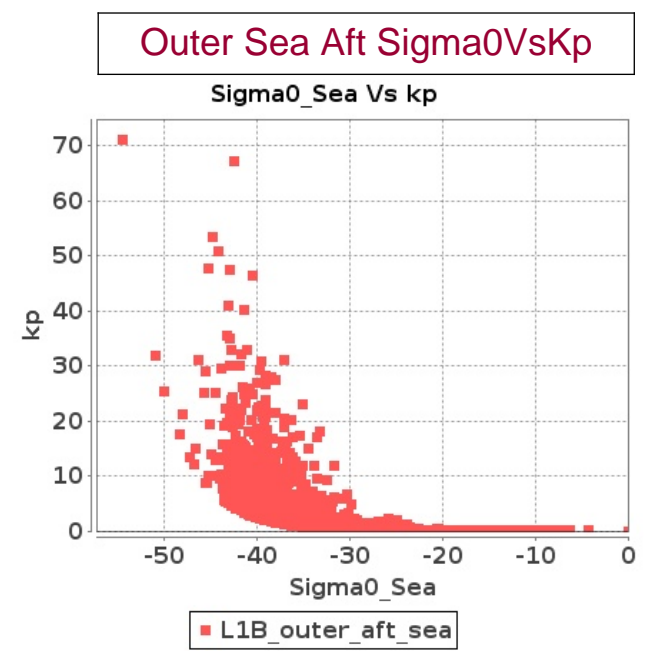
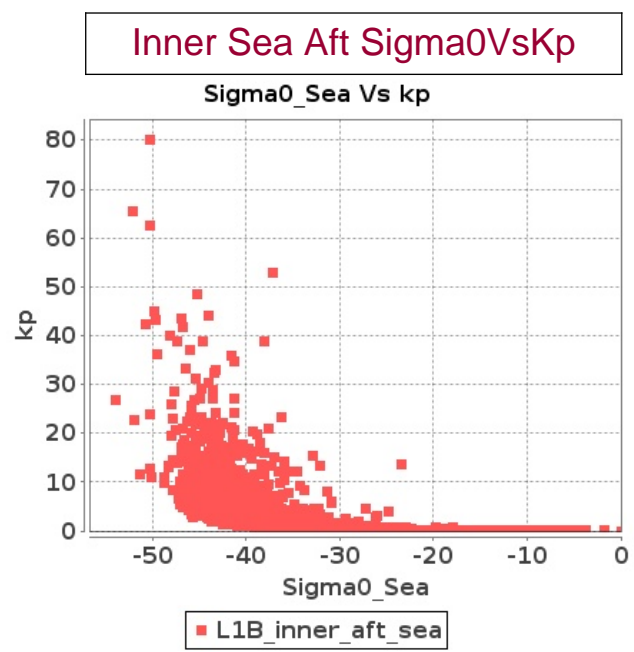


# SCATSAT-1 Scatterometer Level-1B Data Quality Cycle wise Report

Report between 23-AUG-2017 To 24-AUG-2017





# SCATSAT-1 Scatterometer Level-1B Data Quality Cycle wise Report

Report between 23-AUG-2017 To 24-AUG-2017

|       |             |           |      |      | Inner           |        |           |               |         |           |          |          |           |          |         |           |
|-------|-------------|-----------|------|------|-----------------|--------|-----------|---------------|---------|-----------|----------|----------|-----------|----------|---------|-----------|
|       |             |           |      |      | Incidence Angle |        |           | Azimuth Angle |         |           | Range    |          |           | X-Factor |         |           |
| Sr No | Start Orbit | End Orbit | Dir. | Ver. | Min             | Max    | BadOcc(%) | Min           | Max     | BadOcc(%) | Min      | Max      | BadOcc(%) | Min      | Max     | BadOcc(%) |
| 1     | 4796        | 4797      | SN   | 1    | 48.752          | 49.311 | 0.0       | 0.003         | 308.845 | 0.171     | 1025.264 | 1067.264 | 0.0       | -92.015  | -89.239 | 0.0       |
| 2     | 4811        | 4812      | SN   | 1    | 48.745          | 49.333 | 0.0       | 0.003         | 1.803   | 0.167     | 1026.104 | 1068.8   | 0.0       | -91.873  | -89.219 | 0.0       |
| 3     | 4811        | 4812      | NS   | 1    | 48.815          | 49.341 | 0.0       | 0.003         | 1.803   | 0.17      | 1042.128 | 1070.432 | 0.0       | -92.222  | -89.278 | 0.0       |
| 4     | 4811        | 4812      | SN   | 1    | 48.745          | 49.333 | 0.0       | 0.003         | 1.803   | 0.163     | 1026.104 | 1069.344 | 0.0       | -91.873  | -89.219 | 0.0       |
| 5     | 4811        | 4812      | NS   | 1    | 48.815          | 49.341 | 0.0       | 0.003         | 1.803   | 0.17      | 1042.128 | 1070.432 | 0.0       | -92.222  | -89.278 | 0.0       |
| 6     | 4811        | 4812      | SN   | 2    | 48.745          | 49.333 | 0.0       | 0.003         | 1.803   | 0.163     | 1026.104 | 1069.344 | 0.0       | -91.873  | -89.219 | 0.0       |
| 7     | 4812        | 4813      | NS   | 1    | 48.816          | 49.341 | 0.0       | 0.003         | 262.426 | 0.161     | 1042.328 | 1070.496 | 0.0       | -92.12   | -89.294 | 0.0       |
| 8     | 4812        | 4813      | SN   | 1    | 48.766          | 49.316 | 0.0       | 0.003         | 1.798   | 0.154     | 1025.4   | 1069.304 | 0.0       | -91.907  | -89.257 | 0.0       |
| 9     | 4812        | 4813      | SN   | 1    | 48.766          | 49.316 | 0.0       | 0.003         | 1.798   | 0.157     | 1025.4   | 1068.944 | 0.0       | -91.907  | -89.257 | 0.0       |
| 10    | 4812        | 4813      | SN   | 1    | 48.766          | 49.316 | 0.0       | 0.003         | 1.798   | 0.157     | 1025.4   | 1068.944 | 0.0       | -91.907  | -89.257 | 0.0       |
| 11    | 4812        | 4813      | NS   | 2    | 48.819          | 49.341 | 0.0       | 0.003         | 1.803   | 0.161     | 1042.512 | 1070.944 | 0.0       | -92.12   | -89.294 | 0.0       |
| 12    | 4813        | 4814      | SN   | 2    | 48.723          | 49.33  | 0.0       | 0.003         | 1.798   | 0.15      | 1025.736 | 1069.32  | 0.0       | -91.857  | -89.265 | 0.0       |
| 13    | 4813        | 4814      | NS   | 1    | 48.858          | 49.342 | 0.0       | 0.003         | 1.803   | 0.162     | 1042.816 | 1070.48  | 0.0       | -92.037  | -89.295 | 0.0       |
| 14    | 4813        | 4814      | SN   | 1    | 48.723          | 49.33  | 0.0       | 0.003         | 1.798   | 0.152     | 1025.736 | 1068.864 | 0.0       | -91.857  | -89.265 | 0.0       |
| 15    | 4814        | 4815      | SN   | 3    | 48.725          | 49.328 | 0.0       | 0.003         | 1.803   | 0.153     | 1025.936 | 1069.36  | 0.0       | -91.813  | -89.264 | 0.0       |
| 16    | 4814        | 4815      | SN   | 2    | 48.725          | 49.328 | 0.0       | 0.003         | 1.803   | 0.153     | 1025.936 | 1069.36  | 0.0       | -91.813  | -89.264 | 0.0       |
| 17    | 4814        | 4815      | NS   | 1    | 48.816          | 49.364 | 0.0       | 0.003         | 5.785   | 0.182     | 1042.344 | 1070.52  | 0.0       | -91.906  | -89.288 | 0.0       |
| 18    | 4815        | 4816      | SN   | 1    | 48.765          | 49.33  | 0.0       | 0.003         | 208.153 | 0.155     | 1025.592 | 1069.488 | 0.0       | -92.046  | -89.264 | 0.0       |
| 19    | 4815        | 4816      | SN   | 1    | 48.765          | 49.33  | 0.0       | 0.003         | 208.153 | 0.16      | 1025.592 | 1068.312 | 0.0       | -92.046  | -89.264 | 0.0       |
| 20    | 4815        | 4816      | NS   | 1    | 48.82           | 49.359 | 0.0       | 0.003         | 5.78    | 0.183     | 1042.08  | 1071.368 | 0.0       | -92.511  | -89.289 | 0.0       |
| 21    | 4816        | 4817      | NS   | 1    | 48.814          | 49.372 | 0.0       | 0.003         | 1.803   | 0.168     | 1041.92  | 1070.992 | 0.0       | -92.115  | -89.304 | 0.0       |
| 22    | 4816        | 4817      | SN   | 1    | 48.731          | 49.325 | 0.0       | 0.003         | 1.798   | 0.156     | 1025.416 | 1068.984 | 0.0       | -91.96   | -89.265 | 0.0       |

| Parameter Specifications | Parameters | Inc.Angle | Azi. Angle | Range  | X-Factor |
|--------------------------|------------|-----------|------------|--------|----------|
|                          | Min        | 47.1      | 0.0        | 1025.0 | -100.0   |
|                          | Max        | 49.9      | 0.0        | 1095.7 | -80.0    |

■ Normal      ■ Deviations  
■ Alarming      ■ High Errors

| Inner |             |           |         |      |         |          |            |         |          |            |         |           |            |         |         |            |       |          |            |       |          |            |       |           |            |       |        |            |
|-------|-------------|-----------|---------|------|---------|----------|------------|---------|----------|------------|---------|-----------|------------|---------|---------|------------|-------|----------|------------|-------|----------|------------|-------|-----------|------------|-------|--------|------------|
| SNR   |             |           |         |      |         |          |            |         |          |            |         |           |            |         | Kp      |            |       |          |            |       |          |            |       |           |            |       |        |            |
|       |             |           | Sea Aft |      |         | Sea Fore |            |         | Land Aft |            |         | Land Fore |            |         | Sea Aft |            |       | Sea Fore |            |       | Land Aft |            |       | Land Fore |            |       |        |            |
| SrNo  | Start Orbit | End Orbit | Dir.    | Ver. | Min     | Max      | BadOcc (%) | Min     | Max      | BadOcc (%) | Min     | Max       | BadOcc (%) | Min     | Max     | BadOcc (%) | Min   | Max      | BadOcc (%) | Min   | Max      | BadOcc (%) | Min   | Max       | BadOcc (%) | Min   | Max    | BadOcc (%) |
| 1     | 4796        | 4797      | SN      | 1    | -34.996 | 25.071   | 0.4        | -34.679 | 26.954   | 2.314      | 0.471   | 27.723    | 7.955      | 1.411   | 32.913  | 17.736     | 0.103 | 266.907  | 2.994      | 0.103 | 248.068  | 2.124      | 0.103 | 0.168     | 0.0        | 0.102 | 0.155  | 0.0        |
| 2     | 4811        | 4812      | SN      | 1    | -34.84  | 25.093   | 0.52       | -31.821 | 26.061   | 2.927      | -24.704 | 28.669    | 8.963      | -27.628 | 32.218  | 17.498     | 0.103 | 257.465  | 2.595      | 0.103 | 128.549  | 1.855      | 0.103 | 25.025    | 0.067      | 0.102 | 48.981 | 0.058      |
| 3     | 4811        | 4812      | NS      | 1    | -33.797 | 27.146   | 0.343      | -34.662 | 28.521   | 0.194      | -3.952  | 30.639    | 10.522     | -2.077  | 32.597  | 28.803     | 0.103 | 202.523  | 3.176      | 0.103 | 247.129  | 2.864      | 0.103 | 0.297     | 0.0        | 0.102 | 0.226  | 0.0        |
| 4     | 4811        | 4812      | SN      | 1    | -34.84  | 25.257   | 1.082      | -31.821 | 26.061   | 3.152      | -24.704 | 28.669    | 8.963      | -27.628 | 32.218  | 17.498     | 0.103 | 257.465  | 2.476      | 0.103 | 128.549  | 1.854      | 0.103 | 25.025    | 0.067      | 0.102 | 48.981 | 0.058      |
| 5     | 4811        | 4812      | NS      | 1    | -33.797 | 27.146   | 0.341      | -34.662 | 28.521   | 0.194      | -3.952  | 30.639    | 10.522     | -2.077  | 32.597  | 28.803     | 0.103 | 202.523  | 3.181      | 0.103 | 247.129  | 2.859      | 0.103 | 0.297     | 0.0        | 0.102 | 0.226  | 0.0        |
| 6     | 4811        | 4812      | SN      | 2    | -34.84  | 25.257   | 1.08       | -31.821 | 26.061   | 3.149      | -24.704 | 28.669    | 8.963      | -27.628 | 32.218  | 17.498     | 0.103 | 257.465  | 2.471      | 0.103 | 128.549  | 1.851      | 0.103 | 25.025    | 0.067      | 0.102 | 48.981 | 0.058      |
| 7     | 4812        | 4813      | NS      | 1    | -34.287 | 27.214   | 0.357      | -32.935 | 27.535   | 0.591      | -4.763  | 28.829    | 7.208      | -2.588  | 31.097  | 23.52      | 0.103 | 226.679  | 2.146      | 0.103 | 166.061  | 1.77       | 0.103 | 0.339     | 0.0        | 0.103 | 0.242  | 0.0        |
| 8     | 4812        | 4813      | SN      | 1    | -34.956 | 24.048   | 0.233      | -34.454 | 25.541   | 1.227      | -2.609  | 31.995    | 8.987      | -5.301  | 31.271  | 6.56       | 0.103 | 264.371  | 3.205      | 0.103 | 235.628  | 2.57       | 0.102 | 0.243     | 0.0        | 0.103 | 0.372  | 0.0        |
| 9     | 4812        | 4813      | SN      | 1    | -34.956 | 24.048   | 0.208      | -34.454 | 25.541   | 0.931      | -2.609  | 31.995    | 8.987      | -5.301  | 31.271  | 6.56       | 0.103 | 264.371  | 3.251      | 0.103 | 235.628  | 2.614      | 0.102 | 0.243     | 0.0        | 0.103 | 0.372  | 0.0        |
| 10    | 4812        | 4813      | SN      | 1    | -34.956 | 24.048   | 0.218      | -34.454 | 25.541   | 0.959      | -2.609  | 31.995    | 8.987      | -5.301  | 31.271  | 6.56       | 0.103 | 264.371  | 3.248      | 0.103 | 235.628  | 2.61       | 0.102 | 0.243     | 0.0        | 0.103 | 0.372  | 0.0        |
| 11    | 4812        | 4813      | NS      | 2    | -34.874 | 27.214   | 0.358      | -32.894 | 27.535   | 0.591      | -4.763  | 28.827    | 7.205      | -2.588  | 31.097  | 23.519     | 0.103 | 259.434  | 2.148      | 0.103 | 164.48   | 1.77       | 0.103 | 0.339     | 0.0        | 0.103 | 0.242  | 0.0        |
| 12    | 4813        | 4814      | SN      | 2    | -34.391 | 23.196   | 0.046      | -34.84  | 25.399   | 0.656      | -2.484  | 28.405    | 13.767     | -4.494  | 29.468  | 9.132      | 0.103 | 232.193  | 2.183      | 0.103 | 257.451  | 1.544      | 0.103 | 0.238     | 0.0        | 0.103 | 0.324  | 0.0        |
| 13    | 4813        | 4814      | NS      | 1    | -34.863 | 23.219   | 0.11       | -33.819 | 23.233   | 0.086      | -2.009  | 28.221    | 7.016      | -9.888  | 29.615  | 19.924     | 0.103 | 258.811  | 2.734      | 0.103 | 203.523  | 2.265      | 0.103 | 0.224     | 0.0        | 0.103 | 0.905  | 0.0        |
| 14    | 4813        | 4814      | SN      | 1    | -34.391 | 22.775   | 0.012      | -34.84  | 25.399   | 0.564      | 7.907   | 28.405    | 13.773     | 8.653   | 29.468  | 9.153      | 0.103 | 232.193  | 2.217      | 0.103 | 257.451  | 1.516      | 0.103 | 0.113     | 0.0        | 0.103 | 0.112  | 0.0        |
| 15    | 4814        | 4815      | SN      | 3    | -34.608 | 23.023   | 0.018      | -34.529 | 25.009   | 0.57       | -1.539  | 27.22     | 12.317     | -3.061  | 28.705  | 9.274      | 0.103 | 244.069  | 2.798      | 0.103 | 239.652  | 2.419      | 0.103 | 0.21      | 0.0        | 0.103 | 0.259  | 0.0        |
| 16    | 4814        | 4815      | SN      | 2    | -34.608 | 23.023   | 0.018      | -34.529 | 25.009   | 0.57       | -1.539  | 27.22     | 12.317     | -3.061  | 28.705  | 9.274      | 0.103 | 244.069  | 2.798      | 0.103 | 239.652  | 2.419      | 0.103 | 0.21      | 0.0        | 0.103 | 0.259  | 0.0        |
| 17    | 4814        | 4815      | NS      | 1    | -33.152 | 23.509   | 0.202      | -34.881 | 23.922   | 0.435      | -23.793 | 28.502    | 4.559      | -16.144 | 30.704  | 12.452     | 0.103 | 174.549  | 2.94       | 0.103 | 259.959  | 2.821      | 0.103 | 20.299    | 0.004      | 0.103 | 3.556  | 0.004      |
| 18    | 4815        | 4816      | SN      | 1    | -34.526 | 22.681   | 0.002      | -34.711 | 25.17    | 0.572      | 6.499   | 29.075    | 13.927     | 8.998   | 29.624  | 16.839     | 0.103 | 239.483  | 3.744      | 0.103 | 249.985  | 2.874      | 0.103 | 0.118     | 0.0        | 0.103 | 0.111  | 0.0        |
| 19    | 4815        | 4816      | SN      | 1    | -34.526 | 22.681   | 0.002      | -34.711 | 24.864   | 0.328      | 6.499   | 29.075    | 14.298     | 8.998   | 29.624  | 17.256     | 0.103 | 239.483  | 3.669      | 0.103 | 249.985  | 2.967      | 0.103 | 0.118     | 0.0        | 0.103 | 0.111  | 0.0        |
| 20    | 4815        | 4816      | NS      | 1    | -34.824 | 23.303   | 0.257      | -34.917 | 24.499   | 0.524      | -9.487  | 27.888    | 4.174      | -5.976  | 29.72   | 15.495     | 0.103 | 256.519  | 5.119      | 0.103 | 262.046  | 4.245      | 0.103 | 0.833     | 0.0        | 0.103 | 0.419  | 0.0        |
| 21    | 4816        | 4817      | NS      | 1    | -34.671 | 24.694   | 0.708      | -34.343 | 25.267   | 1.147      | -12.626 | 28.533    | 5.134      | -20.671 | 29.833  | 13.886     | 0.103 | 247.609  | 3.542      | 0.103 | 229.662  | 2.563      | 0.103 | 1.627     | 0.002      | 0.103 | 9.936  | 0.004      |
| 22    | 4816        | 4817      | SN      | 1    | -34.782 | 23.764   | 0.07       | -34.416 | 25.02    | 0.596      | 6.703   | 28.001    | 12.762     | -5.348  | 30.045  | 13.138     | 0.103 | 254.091  | 4.012      | 0.103 | 233.473  | 3.48       | 0.103 | 0.117     | 0.0        | 0.103 | 0.375  | 0.0        |

| Parameter Specifications | Parameters | SNR   | Kp  |
|--------------------------|------------|-------|-----|
|                          | Min        | -65.0 | 0.0 |
|                          | Max        | 22.0  | 1.0 |

|  |   |
|--|---|
|  Normal   |  Deviations  |
|  Alarming |  High Errors |

|       |             |           |      |      | Outer           |        |           |               |        |           |          |          |           |          |         |           |
|-------|-------------|-----------|------|------|-----------------|--------|-----------|---------------|--------|-----------|----------|----------|-----------|----------|---------|-----------|
|       |             |           |      |      | Incidence Angle |        |           | Azimuth Angle |        |           | Range    |          |           | X-Factor |         |           |
| Sr No | Start Orbit | End Orbit | Dir. | Ver. | Min             | Max    | BadOcc(%) | Min           | Max    | BadOcc(%) | Min      | Max      | BadOcc(%) | Min      | Max     | BadOcc(%) |
| 1     | 4796        | 4797      | SN   | 1    | 57.555          | 58.172 | 0.0       | 0.003         | 1.958  | 0.206     | 1202.296 | 1254.624 | 29.94     | -93.298  | -91.702 | 0.0       |
| 2     | 4811        | 4812      | SN   | 1    | 57.55           | 58.168 | 0.0       | 0.003         | 1.963  | 0.207     | 1203.296 | 1256.432 | 26.428    | -93.373  | -91.683 | 0.0       |
| 3     | 4811        | 4812      | NS   | 1    | 57.651          | 58.218 | 0.0       | 0.003         | 1.969  | 0.184     | 1223.304 | 1259.048 | 0.0       | -93.583  | -91.689 | 0.0       |
| 4     | 4811        | 4812      | SN   | 1    | 57.55           | 58.168 | 0.0       | 0.003         | 1.963  | 0.202     | 1203.296 | 1257.016 | 25.858    | -93.373  | -91.683 | 0.0       |
| 5     | 4811        | 4812      | NS   | 1    | 57.651          | 58.218 | 0.0       | 0.003         | 1.969  | 0.184     | 1223.304 | 1259.048 | 0.0       | -93.583  | -91.689 | 0.0       |
| 6     | 4811        | 4812      | SN   | 2    | 57.55           | 58.168 | 0.0       | 0.003         | 1.963  | 0.202     | 1203.296 | 1257.016 | 25.838    | -93.373  | -91.683 | 0.0       |
| 7     | 4812        | 4813      | NS   | 1    | 57.66           | 58.218 | 0.0       | 0.003         | 1.969  | 0.174     | 1223.32  | 1259.04  | 0.0       | -93.707  | -91.703 | 0.0       |
| 8     | 4812        | 4813      | SN   | 1    | 57.536          | 58.148 | 0.0       | 0.003         | 1.963  | 0.186     | 1202.496 | 1256.968 | 25.709    | -93.3    | -91.728 | 0.0       |
| 9     | 4812        | 4813      | SN   | 1    | 57.536          | 58.148 | 0.0       | 0.003         | 1.963  | 0.188     | 1202.496 | 1256.544 | 26.067    | -93.3    | -91.728 | 0.0       |
| 10    | 4812        | 4813      | SN   | 1    | 57.536          | 58.148 | 0.0       | 0.003         | 1.963  | 0.188     | 1202.496 | 1256.544 | 26.039    | -93.3    | -91.728 | 0.0       |
| 11    | 4812        | 4813      | NS   | 2    | 57.661          | 58.218 | 0.0       | 0.003         | 1.969  | 0.174     | 1223.256 | 1259.432 | 0.0       | -93.889  | -91.703 | 0.0       |
| 12    | 4813        | 4814      | SN   | 2    | 57.536          | 58.157 | 0.0       | 0.003         | 1.963  | 0.183     | 1202.432 | 1256.992 | 25.662    | -93.498  | -91.736 | 0.0       |
| 13    | 4813        | 4814      | NS   | 1    | 57.677          | 58.22  | 0.0       | 0.003         | 1.963  | 0.171     | 1223.84  | 1258.744 | 0.0       | -93.672  | -91.705 | 0.0       |
| 14    | 4813        | 4814      | SN   | 1    | 57.536          | 58.157 | 0.0       | 0.003         | 1.963  | 0.185     | 1202.432 | 1256.456 | 25.979    | -93.498  | -91.736 | 0.0       |
| 15    | 4814        | 4815      | SN   | 3    | 57.537          | 58.167 | 0.0       | 0.003         | 1.963  | 0.184     | 1202.368 | 1257.064 | 25.52     | -93.411  | -91.734 | 0.0       |
| 16    | 4814        | 4815      | SN   | 2    | 57.537          | 58.167 | 0.0       | 0.003         | 1.963  | 0.184     | 1202.368 | 1257.064 | 25.52     | -93.411  | -91.734 | 0.0       |
| 17    | 4814        | 4815      | NS   | 1    | 57.682          | 58.22  | 0.0       | 0.003         | 35.765 | 0.215     | 1223.28  | 1259.528 | 0.0       | -93.658  | -91.698 | 0.0       |
| 18    | 4815        | 4816      | SN   | 1    | 57.555          | 58.162 | 0.0       | 0.003         | 1.963  | 0.182     | 1202.704 | 1257.224 | 25.14     | -93.426  | -91.735 | 0.0       |
| 19    | 4815        | 4816      | SN   | 1    | 57.555          | 58.162 | 0.0       | 0.003         | 1.963  | 0.187     | 1202.704 | 1255.872 | 25.903    | -93.356  | -91.735 | 0.0       |
| 20    | 4815        | 4816      | NS   | 1    | 57.666          | 58.222 | 0.0       | 0.008         | 38.274 | 0.219     | 1223.128 | 1259.424 | 0.0       | -93.672  | -91.693 | 0.0       |
| 21    | 4816        | 4817      | NS   | 1    | 57.65           | 58.25  | 0.0       | 0.003         | 1.969  | 0.179     | 1222.792 | 1258.896 | 0.0       | -93.758  | -91.711 | 0.0       |
| 22    | 4816        | 4817      | SN   | 1    | 57.53           | 58.177 | 0.0       | 0.003         | 1.963  | 0.188     | 1202.736 | 1256.632 | 25.089    | -93.406  | -91.735 | 0.0       |

| Parameter Specifications | Parameters | Inc.Angle | Azi. Angle | Range  | X-Factor |
|--------------------------|------------|-----------|------------|--------|----------|
|                          | Min        | 57.3      | 0.0        | 1210.0 | -100.0   |
|                          | Max        | 58.9      | 0.0        | 1280.0 | -80.0    |

|  |  |
|--|--|
| <span style="color: green;">■</span> Normal    | <span style="color: yellow;">■</span> Deviations |
| <span style="color: orange;">■</span> Alarming | <span style="color: red;">■</span> High Errors   |

| Outer |             |           |         |      |         |          |            |         |          |            |         |           |            |         |         |            |       |          |            |       |          |            |       |           |            |       |         |            |
|-------|-------------|-----------|---------|------|---------|----------|------------|---------|----------|------------|---------|-----------|------------|---------|---------|------------|-------|----------|------------|-------|----------|------------|-------|-----------|------------|-------|---------|------------|
| SNR   |             |           |         |      |         |          |            |         |          |            |         |           |            |         |         |            | Kp    |          |            |       |          |            |       |           |            |       |         |            |
|       |             |           | Sea Aft |      |         | Sea Fore |            |         | Land Aft |            |         | Land Fore |            |         | Sea Aft |            |       | Sea Fore |            |       | Land Aft |            |       | Land Fore |            |       |         |            |
| SrNo  | Start Orbit | End Orbit | Dir.    | Ver. | Min     | Max      | BadOcc (%) | Min     | Max      | BadOcc (%) | Min     | Max       | BadOcc (%) | Min     | Max     | BadOcc (%) | Min   | Max      | BadOcc (%) | Min   | Max      | BadOcc (%) | Min   | Max       | BadOcc (%) | Min   | Max     | BadOcc (%) |
| 1     | 4796        | 4797      | SN      | 1    | -34.925 | 18.81    | 0.0        | -34.694 | 19.952   | 0.0        | -3.364  | 23.482    | 0.198      | -2.673  | 23.662  | 0.189      | 0.083 | 214.395  | 3.569      | 0.083 | 208.477  | 2.994      | 0.083 | 0.22      | 0.0        | 0.083 | 0.205   | 0.0        |
| 2     | 4811        | 4812      | SN      | 1    | -34.946 | 19.222   | 0.0        | -34.224 | 20.753   | 0.0        | -30.573 | 23.03     | 0.136      | -23.109 | 24.568  | 0.292      | 0.083 | 215.437  | 2.292      | 0.083 | 182.455  | 2.051      | 0.083 | 78.749    | 0.055      | 0.083 | 14.169  | 0.058      |
| 3     | 4811        | 4812      | NS      | 1    | -34.174 | 20.965   | 0.0        | -34.671 | 21.83    | 0.0        | -1.355  | 23.694    | 0.075      | -0.796  | 25.529  | 0.734      | 0.083 | 184.936  | 3.098      | 0.083 | 202.219  | 3.178      | 0.083 | 0.166     | 0.0        | 0.083 | 0.156   | 0.0        |
| 4     | 4811        | 4812      | SN      | 1    | -34.946 | 19.222   | 0.0        | -34.224 | 20.753   | 0.0        | -30.573 | 23.03     | 0.136      | -23.109 | 24.568  | 0.292      | 0.083 | 215.437  | 2.204      | 0.083 | 182.455  | 2.08       | 0.083 | 78.749    | 0.055      | 0.083 | 14.169  | 0.058      |
| 5     | 4811        | 4812      | NS      | 1    | -34.174 | 20.965   | 0.0        | -34.671 | 21.83    | 0.0        | -1.355  | 23.694    | 0.075      | -0.796  | 25.529  | 0.734      | 0.083 | 184.936  | 3.103      | 0.083 | 202.219  | 3.183      | 0.083 | 0.166     | 0.0        | 0.083 | 0.156   | 0.0        |
| 6     | 4811        | 4812      | SN      | 2    | -34.946 | 19.222   | 0.0        | -34.224 | 20.753   | 0.0        | -30.573 | 23.03     | 0.136      | -23.109 | 24.568  | 0.292      | 0.083 | 215.437  | 2.2        | 0.083 | 182.455  | 2.085      | 0.083 | 78.749    | 0.055      | 0.083 | 14.169  | 0.058      |
| 7     | 4812        | 4813      | NS      | 1    | -34.632 | 21.794   | 0.0        | -34.623 | 21.31    | 0.0        | -8.538  | 22.992    | 0.04       | -7.538  | 24.311  | 0.429      | 0.083 | 200.39   | 2.038      | 0.083 | 199.989  | 1.871      | 0.083 | 0.558     | 0.0        | 0.083 | 0.458   | 0.0        |
| 8     | 4812        | 4813      | SN      | 1    | -34.724 | 19.293   | 0.0        | -34.431 | 20.037   | 0.0        | -3.323  | 23.55     | 0.155      | -6.907  | 24.223  | 0.46       | 0.083 | 204.709  | 3.244      | 0.083 | 191.326  | 2.874      | 0.083 | 0.218     | 0.0        | 0.083 | 0.405   | 0.0        |
| 9     | 4812        | 4813      | SN      | 1    | -34.724 | 19.293   | 0.0        | -34.431 | 20.037   | 0.0        | -3.323  | 23.55     | 0.155      | -6.907  | 24.223  | 0.46       | 0.083 | 204.709  | 3.219      | 0.083 | 191.326  | 2.911      | 0.083 | 0.218     | 0.0        | 0.083 | 0.405   | 0.0        |
| 10    | 4812        | 4813      | SN      | 1    | -34.724 | 19.293   | 0.0        | -34.431 | 20.037   | 0.0        | -3.323  | 23.55     | 0.155      | -6.907  | 24.223  | 0.46       | 0.083 | 204.709  | 3.219      | 0.083 | 191.326  | 2.907      | 0.083 | 0.218     | 0.0        | 0.083 | 0.405   | 0.0        |
| 11    | 4812        | 4813      | NS      | 2    | -34.714 | 21.793   | 0.0        | -34.942 | 21.312   | 0.0        | -8.538  | 22.993    | 0.04       | -7.537  | 24.311  | 0.429      | 0.083 | 204.277  | 2.039      | 0.083 | 215.254  | 1.869      | 0.083 | 0.559     | 0.0        | 0.083 | 0.458   | 0.0        |
| 12    | 4813        | 4814      | SN      | 2    | -34.7   | 17.58    | 0.0        | -34.156 | 18.29    | 0.0        | 2.833   | 22.803    | 0.14       | 2.824   | 23.566  | 0.409      | 0.083 | 203.57   | 2.007      | 0.083 | 179.605  | 1.676      | 0.083 | 0.113     | 0.0        | 0.083 | 0.113   | 0.0        |
| 13    | 4813        | 4814      | NS      | 1    | -33.885 | 17.712   | 0.0        | -34.988 | 17.384   | 0.0        | -7.436  | 22.73     | 0.017      | -29.376 | 24.222  | 0.32       | 0.083 | 168.725  | 1.929      | 0.084 | 217.498  | 1.795      | 0.083 | 0.449     | 0.0        | 0.083 | 59.793  | 0.01       |
| 14    | 4813        | 4814      | SN      | 1    | -34.7   | 17.58    | 0.0        | -34.156 | 18.29    | 0.0        | 2.833   | 22.803    | 0.14       | 2.824   | 23.566  | 0.411      | 0.083 | 203.57   | 2.018      | 0.083 | 179.605  | 1.666      | 0.083 | 0.113     | 0.0        | 0.083 | 0.113   | 0.0        |
| 15    | 4814        | 4815      | SN      | 3    | -34.42  | 17.614   | 0.0        | -34.881 | 18.756   | 0.0        | 1.618   | 23.232    | 0.421      | 3.306   | 23.123  | 1.041      | 0.083 | 190.871  | 2.906      | 0.083 | 212.278  | 2.686      | 0.083 | 0.123     | 0.0        | 0.083 | 0.109   | 0.0        |
| 16    | 4814        | 4815      | SN      | 2    | -34.42  | 17.614   | 0.0        | -34.881 | 18.756   | 0.0        | 1.618   | 23.232    | 0.421      | 3.306   | 23.123  | 1.041      | 0.083 | 190.871  | 2.906      | 0.083 | 212.278  | 2.686      | 0.083 | 0.123     | 0.0        | 0.083 | 0.109   | 0.0        |
| 17    | 4814        | 4815      | NS      | 1    | -33.104 | 17.54    | 0.0        | -34.98  | 18.549   | 0.0        | -21.574 | 22.746    | 0.042      | -32.338 | 23.92   | 0.3        | 0.083 | 141.003  | 2.225      | 0.083 | 217.114  | 2.081      | 0.083 | 9.973     | 0.035      | 0.083 | 118.194 | 0.043      |
| 18    | 4815        | 4816      | SN      | 1    | -34.826 | 17.701   | 0.0        | -34.956 | 18.62    | 0.0        | 1.671   | 22.489    | 0.075      | 3.561   | 23.156  | 1.16       | 0.083 | 209.535  | 3.466      | 0.083 | 215.923  | 2.988      | 0.083 | 0.122     | 0.0        | 0.083 | 0.108   | 0.0        |
| 19    | 4815        | 4816      | SN      | 1    | -34.826 | 17.701   | 0.0        | -34.956 | 18.414   | 0.0        | 1.671   | 22.489    | 0.078      | 3.561   | 23.156  | 1.218      | 0.083 | 209.535  | 3.451      | 0.083 | 215.923  | 3.075      | 0.083 | 0.122     | 0.0        | 0.083 | 0.108   | 0.0        |
| 20    | 4815        | 4816      | NS      | 1    | -34.201 | 17.701   | 0.0        | -34.363 | 18.326   | 0.0        | -26.025 | 23.147    | 0.028      | -32.086 | 23.634  | 0.196      | 0.083 | 181.469  | 4.575      | 0.083 | 188.352  | 4.236      | 0.083 | 27.674    | 0.064      | 0.083 | 111.548 | 0.044      |
| 21    | 4816        | 4817      | NS      | 1    | -34.363 | 18.161   | 0.0        | -34.959 | 18.521   | 0.0        | -31.992 | 23.629    | 0.24       | -22.546 | 23.912  | 0.749      | 0.083 | 188.396  | 3.324      | 0.083 | 216.068  | 2.979      | 0.083 | 109.147   | 0.039      | 0.083 | 12.456  | 0.04       |
| 22    | 4816        | 4817      | SN      | 1    | -34.414 | 17.344   | 0.0        | -34.574 | 18.758   | 0.0        | 1.0     | 22.706    | 0.049      | -1.313  | 22.911  | 0.063      | 0.084 | 190.586  | 3.52       | 0.083 | 197.735  | 3.091      | 0.083 | 0.13      | 0.0        | 0.083 | 0.166   | 0.0        |

| Parameter Specifications | Parameters | SNR   | Kp  |
|--------------------------|------------|-------|-----|
|                          | Min        | -65.0 | 0.0 |
|                          | Max        | 22.0  | 1.0 |

■ Normal      ■ Deviations  
■ Alarming      ■ High Errors