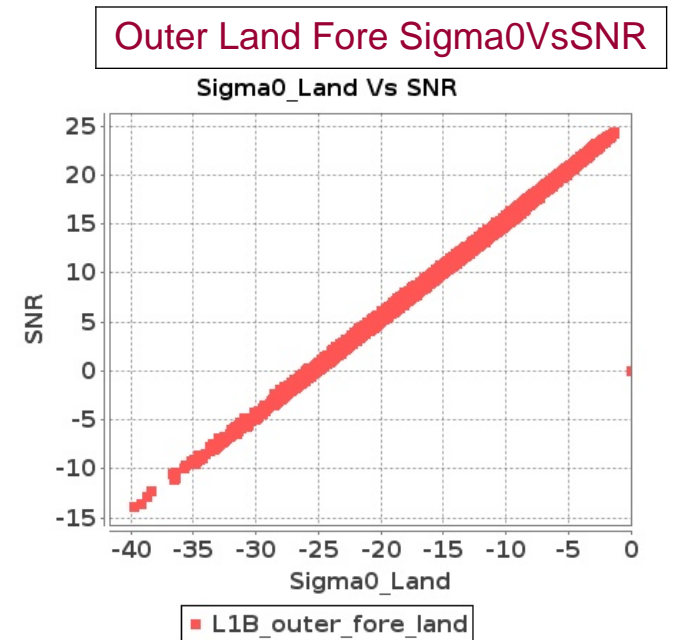
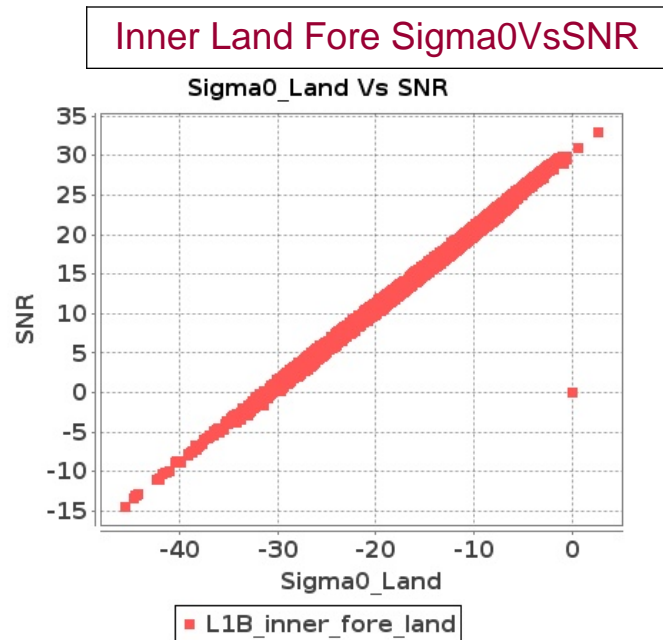
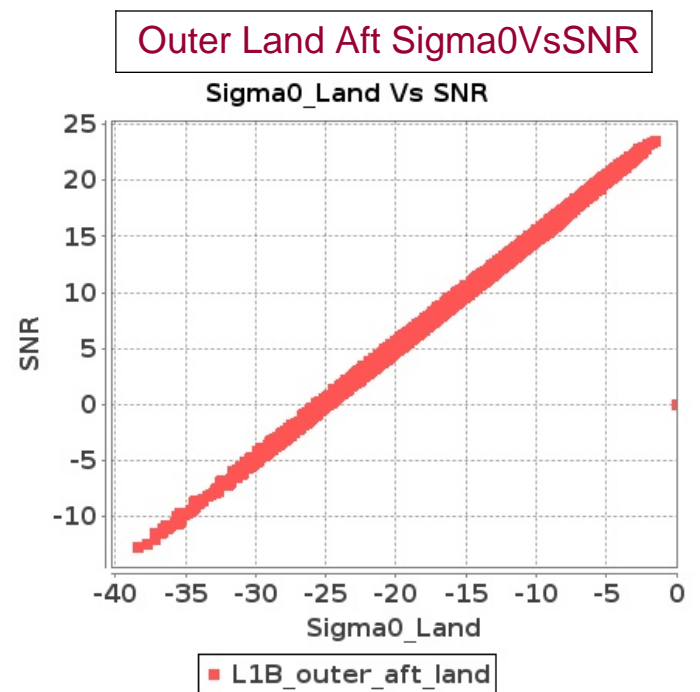
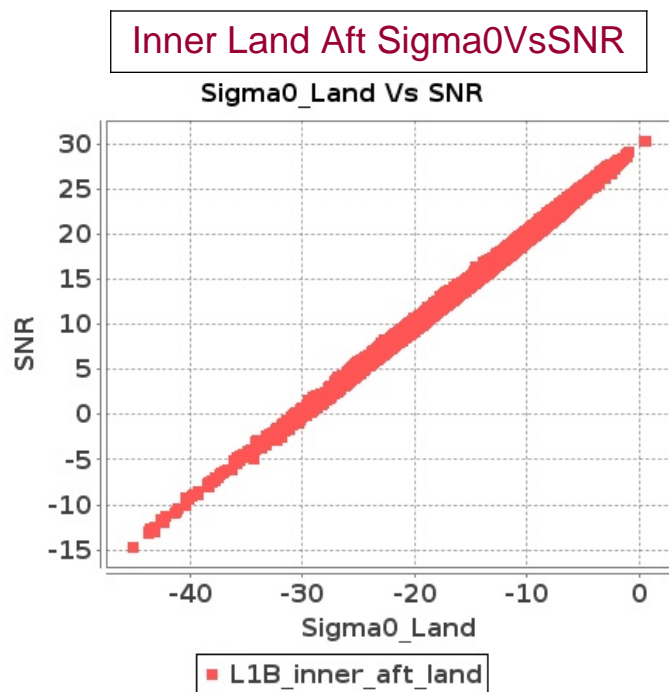
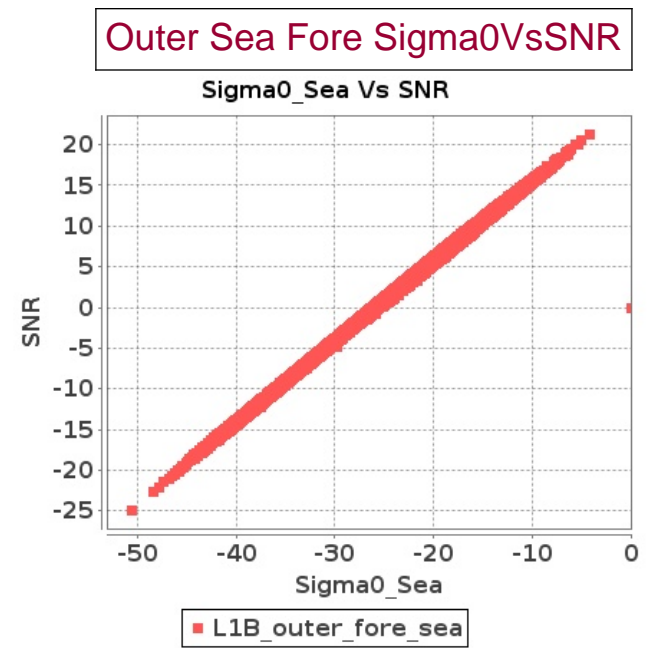
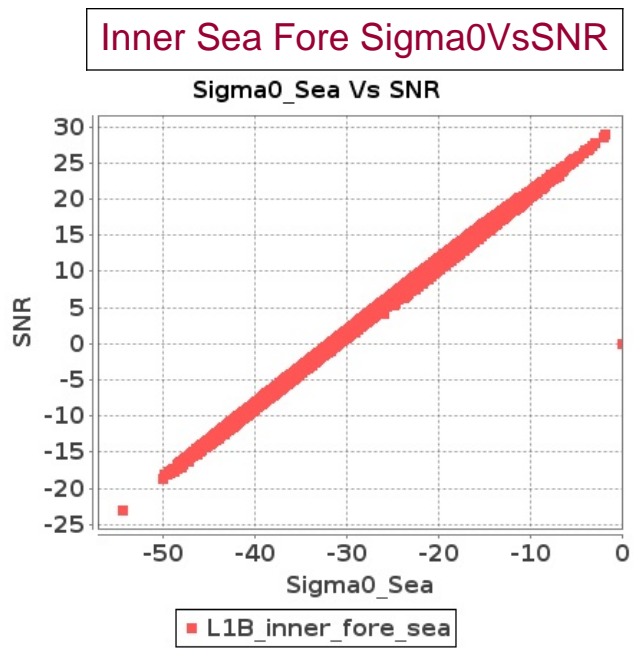
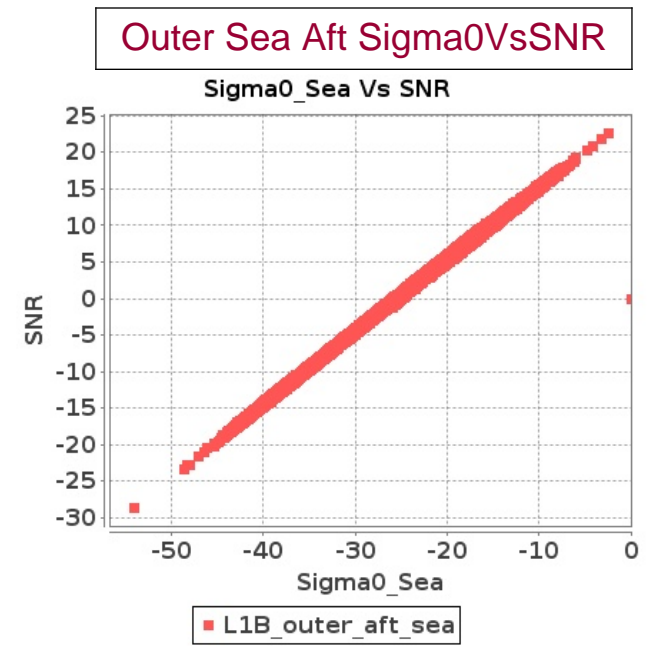
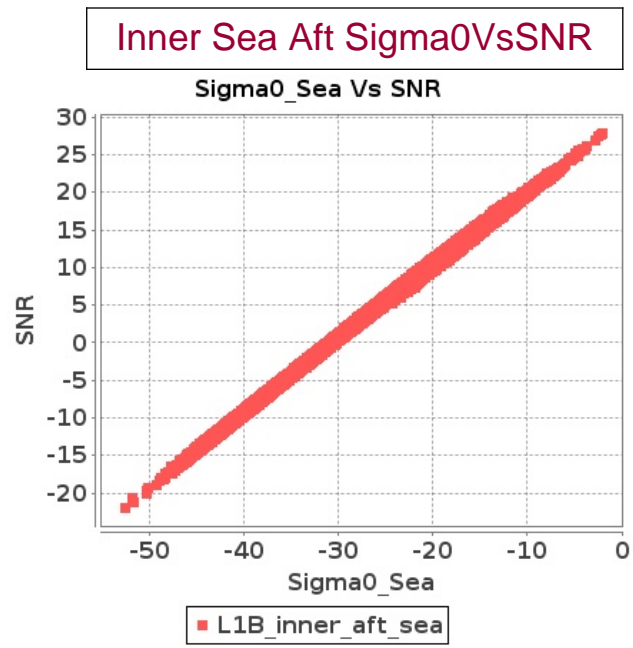
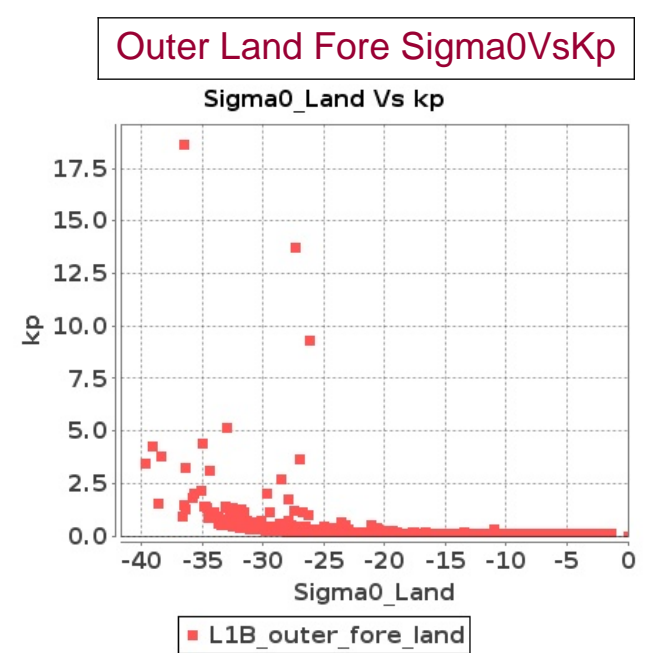
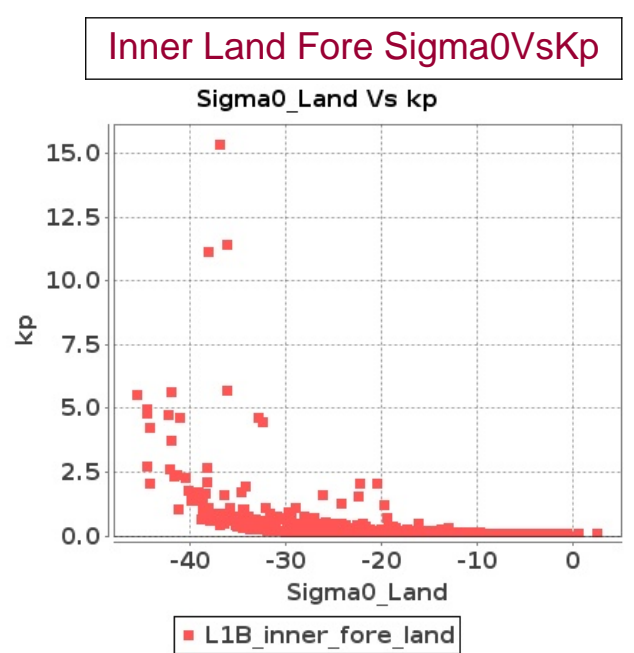
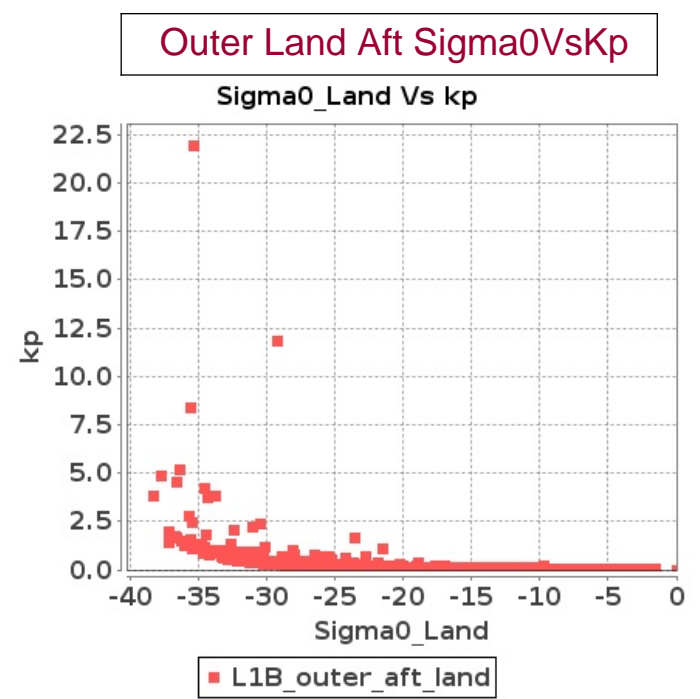
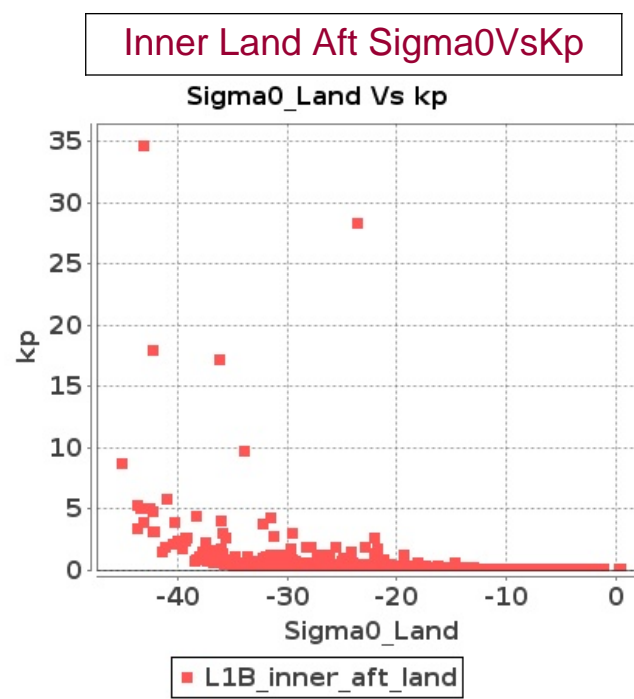
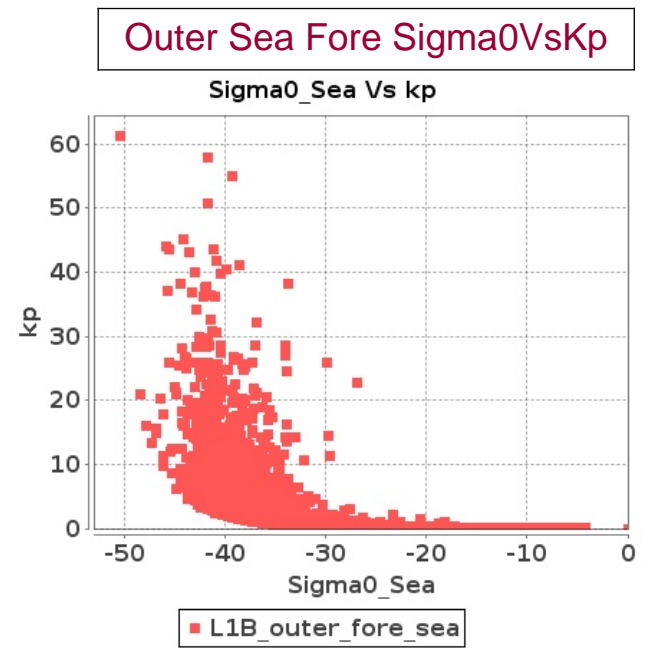
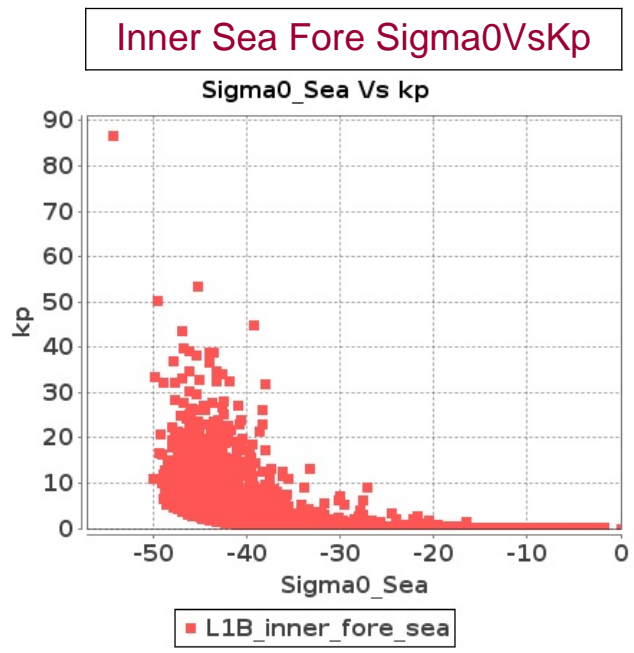
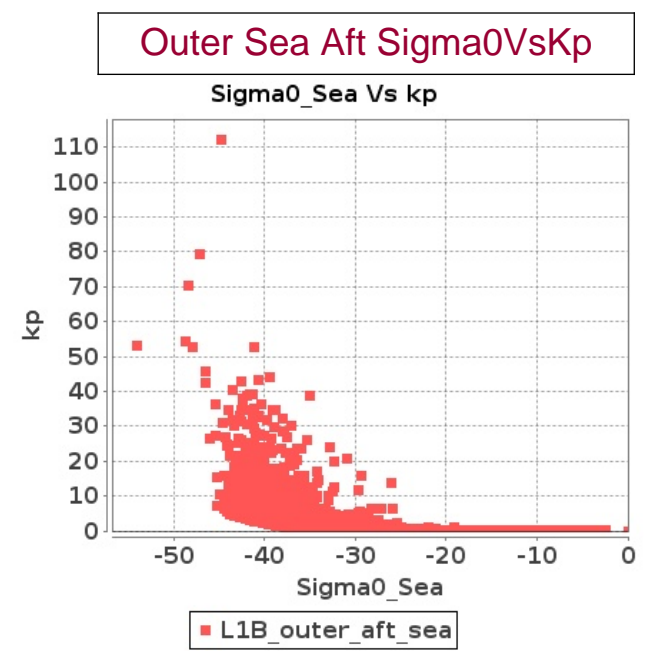
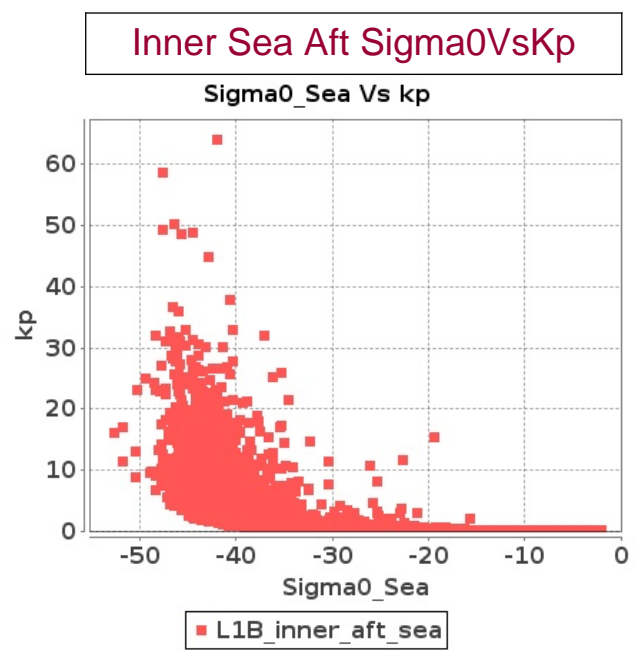


# SCATSAT-1 Scatterometer Level-1B Data Quality Cycle wise Report

Report between 25-APR-2019 To 26-APR-2019





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

Report between 25-APR-2019 To 26-APR-2019

|       |             |           |      |      | 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     | 13641       | 13642     | SN   | 2    | 48.829          | 49.446 | 0.0       | 0.003         | 6.133   | 2.787     | 1054.296 | 1075.064 | 0.0       | -91.717  | -90.069 | 0.0       |
| 2     | 13641       | 13642     | SN   | 1    | 48.829          | 49.446 | 0.0       | 0.003         | 6.0     | 2.068     | 1054.296 | 1075.064 | 0.0       | -91.717  | -90.069 | 0.0       |
| 3     | 13641       | 13642     | SN   | 1    | 48.829          | 49.446 | 0.0       | 0.003         | 6.133   | 2.787     | 1054.296 | 1075.064 | 0.0       | -91.717  | -90.069 | 0.0       |
| 4     | 13642       | 13643     | SN   | 1    | 48.837          | 49.414 | 0.0       | 0.0           | 132.945 | 2.544     | 1053.096 | 1073.984 | 0.0       | -92.277  | -90.068 | 0.0       |
| 5     | 13642       | 13643     | NS   | 1    | 48.704          | 49.388 | 0.0       | 0.0           | 266.468 | 2.728     | 1021.936 | 1069.144 | 10.602    | -93.779  | -89.757 | 0.0       |
| 6     | 13642       | 13643     | SN   | 1    | 48.837          | 49.414 | 0.0       | 0.0           | 132.945 | 2.73      | 1053.096 | 1073.984 | 0.0       | -92.277  | -90.068 | 0.0       |
| 7     | 13642       | 13643     | SN   | 1    | 48.837          | 49.414 | 0.0       | 0.0           | 132.945 | 2.73      | 1053.096 | 1073.984 | 0.0       | -92.277  | -90.068 | 0.0       |
| 8     | 13642       | 13643     | NS   | 1    | 48.704          | 49.388 | 0.0       | 0.0           | 266.468 | 2.726     | 1021.936 | 1069.144 | 10.592    | -93.779  | -89.757 | 0.0       |
| 9     | 13643       | 13644     | SN   | 1    | 48.823          | 49.448 | 0.0       | 0.0           | 178.3   | 2.621     | 1053.712 | 1074.096 | 0.0       | -91.651  | -90.086 | 0.0       |
| 10    | 13643       | 13644     | SN   | 1    | 48.823          | 49.448 | 0.0       | 0.0           | 178.3   | 2.475     | 1053.712 | 1074.112 | 0.0       | -91.651  | -90.086 | 0.0       |
| 11    | 13643       | 13644     | SN   | 2    | 48.823          | 49.448 | 0.0       | 0.0           | 178.3   | 2.474     | 1053.712 | 1074.096 | 0.0       | -91.651  | -90.086 | 0.0       |
| 12    | 13643       | 13644     | NS   | 1    | 48.663          | 49.305 | 0.0       | 0.003         | 41.492  | 2.695     | 1021.408 | 1069.392 | 10.643    | -91.604  | -89.765 | 0.0       |
| 13    | 13643       | 13644     | NS   | 1    | 48.662          | 49.305 | 0.0       | 0.003         | 41.492  | 2.692     | 1021.272 | 1069.392 | 10.63     | -91.496  | -89.765 | 0.0       |
| 14    | 13644       | 13645     | SN   | 1    | 48.862          | 49.425 | 0.0       | 0.003         | 6.171   | 2.301     | 1052.784 | 1074.568 | 0.0       | -91.676  | -90.084 | 0.0       |
| 15    | 13644       | 13645     | SN   | 1    | 48.862          | 49.425 | 0.0       | 0.003         | 6.171   | 2.52      | 1052.784 | 1074.568 | 0.0       | -91.676  | -90.084 | 0.0       |
| 16    | 13644       | 13645     | NS   | 1    | 48.64           | 49.298 | 0.0       | 0.003         | 206.901 | 2.622     | 1021.288 | 1069.4   | 10.2      | -91.468  | -89.775 | 0.0       |
| 17    | 13645       | 13646     | SN   | 2    | 48.827          | 49.457 | 0.0       | 0.003         | 6.127   | 2.313     | 1053.968 | 1074.784 | 0.0       | -91.671  | -90.086 | 0.0       |
| 18    | 13645       | 13646     | SN   | 1    | 48.827          | 49.457 | 0.0       | 0.003         | 6.127   | 2.312     | 1053.968 | 1074.784 | 0.0       | -91.671  | -90.086 | 0.0       |
| 19    | 13645       | 13646     | NS   | 1    | 48.629          | 49.298 | 0.0       | 0.0           | 267.544 | 3.42      | 1022.184 | 1069.344 | 10.694    | -93.803  | -89.732 | 0.0       |
| 20    | 13646       | 13647     | SN   | 1    | 48.826          | 49.44  | 0.0       | 0.0           | 195.159 | 2.694     | 1053.432 | 1074.024 | 0.0       | -91.999  | -90.087 | 0.0       |
| 21    | 13646       | 13647     | NS   | 1    | 48.64           | 49.354 | 0.0       | 0.003         | 265.178 | 2.635     | 1021.48  | 1069.24  | 10.817    | -91.612  | -89.768 | 0.0       |
| 22    | 13647       | 13648     | SN   | 1    | 48.826          | 49.45  | 0.0       | 0.003         | 6.182   | 2.255     | 1053.128 | 1074.08  | 0.0       | -91.69   | -90.079 | 0.0       |
| 23    | 13647       | 13648     | NS   | 1    | 48.702          | 49.389 | 0.0       | 0.003         | 235.97  | 2.641     | 1021.944 | 1069.248 | 11.533    | -93.736  | -89.768 | 0.0       |
| 24    | 13649       | 13650     | NS   | 1    | 48.626          | 49.355 | 0.0       | 0.0           | 210.221 | 2.995     | 1021.728 | 1069.568 | 13.771    | -94.37   | -89.723 | 0.0       |
| 25    | 13650       | 13651     | SN   | 1    | 48.83           | 49.467 | 0.0       | 0.003         | 170.877 | 2.537     | 1054.112 | 1074.608 | 0.0       | -91.746  | -90.092 | 0.0       |
| 26    | 13650       | 13651     | SN   | 1    | 48.83           | 49.467 | 0.0       | 0.003         | 170.877 | 2.534     | 1053.888 | 1074.608 | 0.0       | -91.898  | -90.092 | 0.0       |
| 27    | 13651       | 13652     | NS   | 1    | 48.638          | 49.296 | 0.0       | 0.0           | 267.786 | 2.856     | 1021.12  | 1069.568 | 14.17     | -91.534  | -89.769 | 0.0       |
| 28    | 13651       | 13652     | NS   | 1    | 48.638          | 49.296 | 0.0       | 0.0           | 267.786 | 2.857     | 1021.12  | 1069.568 | 14.171    | -91.534  | -89.769 | 0.0       |
| 29    | 13651       | 13652     | SN   | 1    | 48.851          | 49.475 | 0.0       | 0.003         | 30.109  | 2.566     | 1053.608 | 1074.52  | 0.0       | -91.716  | -90.078 | 0.0       |
| 30    | 13652       | 13653     | SN   | 1    | 48.871          | 49.473 | 0.0       | 0.003         | 187.593 | 2.595     | 1054.632 | 1074.656 | 0.0       | -91.698  | -90.081 | 0.0       |
| 31    | 13652       | 13653     | NS   | 1    | 48.542          | 49.569 | 0.0       | 0.0           | 265.045 | 2.596     | 1021.056 | 1069.088 | 14.702    | -94.236  | -89.763 | 0.0       |
| 32    | 13653       | 13654     | NS   | 1    | 48.646          | 49.315 | 0.0       | 0.0           | 264.935 | 2.134     | 1021.376 | 1066.264 | 16.276    | -91.594  | -89.761 | 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

|    |       |       |    |   |        |        |     |       |         |       |          |          |        |         |         |     |
|----|-------|-------|----|---|--------|--------|-----|-------|---------|-------|----------|----------|--------|---------|---------|-----|
| 33 | 13655 | 13656 | SN | 1 | 48.85  | 49.45  | 0.0 | 0.0   | 215.51  | 2.788 | 1054.52  | 1076.216 | 0.0    | -91.756 | -90.094 | 0.0 |
| 34 | 13656 | 13657 | NS | 1 | 48.658 | 49.396 | 0.0 | 0.0   | 211.864 | 2.798 | 1020.472 | 1069.88  | 13.59  | -93.645 | -89.76  | 0.0 |
| 35 | 13656 | 13657 | SN | 1 | 48.765 | 49.421 | 0.0 | 0.0   | 279.092 | 2.751 | 1053.792 | 1074.976 | 0.0    | -92.696 | -90.043 | 0.0 |
| 36 | 13657 | 13658 | SN | 1 | 48.833 | 49.422 | 0.0 | 0.003 | 6.193   | 2.532 | 1054.104 | 1075.128 | 0.0    | -91.681 | -90.089 | 0.0 |
| 37 | 13657 | 13658 | NS | 1 | 48.67  | 49.293 | 0.0 | 0.003 | 264.069 | 2.588 | 1020.696 | 1070.144 | 13.782 | -91.571 | -89.765 | 0.0 |
| 38 | 13658 | 13659 | SN | 1 | 48.832 | 49.459 | 0.0 | 0.0   | 201.827 | 2.535 | 1054.272 | 1075.176 | 0.0    | -91.678 | -90.09  | 0.0 |
| 39 | 13659 | 13660 | SN | 1 | 48.859 | 49.485 | 0.0 | 0.0   | 162.5   | 2.713 | 1053.32  | 1077.104 | 0.0    | -93.992 | -90.085 | 0.0 |
| 40 | 13659 | 13660 | NS | 1 | 48.661 | 49.291 | 0.0 | 0.003 | 207.188 | 2.658 | 1020.68  | 1070.184 | 13.424 | -91.356 | -89.761 | 0.0 |
| 41 | 13660 | 13661 | SN | 1 | 48.891 | 49.452 | 0.0 | 0.003 | 281.16  | 2.656 | 1054.4   | 1076.04  | 0.0    | -91.752 | -90.089 | 0.0 |
| 42 | 13660 | 13661 | NS | 1 | 48.65  | 49.291 | 0.0 | 0.008 | 6.221   | 2.547 | 1021.456 | 1070.176 | 14.519 | -91.569 | -89.755 | 0.0 |
| 43 | 13660 | 13661 | SN | 2 | 48.891 | 49.452 | 0.0 | 0.003 | 281.16  | 2.657 | 1054.4   | 1076.04  | 0.0    | -91.752 | -90.089 | 0.0 |
| 44 | 13660 | 13661 | NS | 1 | 48.65  | 49.291 | 0.0 | 0.008 | 6.221   | 2.546 | 1021.448 | 1070.184 | 14.52  | -91.569 | -89.755 | 0.0 |
| 45 | 13661 | 13662 | SN | 1 | 48.751 | 49.455 | 0.0 | 0.0   | 214.853 | 2.73  | 1052.864 | 1075.504 | 0.0    | -92.638 | -90.084 | 0.0 |
| 46 | 13661 | 13662 | NS | 1 | 48.529 | 49.356 | 0.0 | 0.0   | 266.981 | 3.079 | 1020.424 | 1070.2   | 15.031 | -92.385 | -89.761 | 0.0 |
| 47 | 13661 | 13662 | NS | 1 | 48.529 | 49.352 | 0.0 | 0.0   | 266.981 | 3.179 | 1020.72  | 1070.184 | 14.999 | -92.385 | -89.761 | 0.0 |
| 48 | 13661 | 13662 | SN | 1 | 48.751 | 49.455 | 0.0 | 0.0   | 214.853 | 2.0   | 1052.864 | 1075.512 | 0.0    | -92.638 | -90.084 | 0.0 |
| 49 | 13662 | 13663 | NS | 1 | 48.646 | 49.337 | 0.0 | 0.0   | 267.334 | 2.166 | 1020.136 | 1070.272 | 16.425 | -94.291 | -89.758 | 0.0 |
| 50 | 13662 | 13663 | SN | 1 | 48.827 | 49.421 | 0.0 | 0.0   | 186.462 | 2.375 | 1052.32  | 1075.248 | 0.0    | -92.579 | -90.06  | 0.0 |
| 51 | 13663 | 13664 | SN | 1 | 48.867 | 49.442 | 0.0 | 0.003 | 246.918 | 0.558 | 1054.048 | 1075.48  | 0.0    | -91.67  | -90.082 | 0.0 |
| 52 | 13663 | 13664 | NS | 1 | 48.629 | 49.289 | 0.0 | 0.003 | 206.614 | 1.99  | 1021.048 | 1070.48  | 16.608 | -91.521 | -89.755 | 0.0 |
| 53 | 13664 | 13665 | NS | 1 | 48.684 | 49.289 | 0.0 | 0.003 | 267.588 | 2.762 | 1020.536 | 1070.472 | 16.182 | -91.551 | -89.741 | 0.0 |
| 54 | 13664 | 13665 | SN | 1 | 48.821 | 49.433 | 0.0 | 0.0   | 181.576 | 2.771 | 1052.256 | 1075.56  | 0.0    | -92.135 | -90.072 | 0.0 |
| 55 | 13664 | 13665 | SN | 1 | 48.821 | 49.462 | 0.0 | 0.0   | 181.576 | 2.869 | 1052.256 | 1075.56  | 0.0    | -92.135 | -90.072 | 0.0 |
| 56 | 13665 | 13666 | NS | 2 | 48.679 | 49.289 | 0.0 | 0.0   | 267.698 | 2.726 | 1020.136 | 1070.44  | 16.429 | -91.583 | -89.758 | 0.0 |
| 57 | 13665 | 13666 | NS | 1 | 48.679 | 49.289 | 0.0 | 0.0   | 267.698 | 2.726 | 1020.136 | 1070.44  | 16.429 | -91.583 | -89.758 | 0.0 |
| 58 | 13666 | 13667 | SN | 1 | 48.846 | 49.528 | 0.0 | 0.0   | 134.18  | 3.108 | 1055.056 | 1075.64  | 0.0    | -92.436 | -90.057 | 0.0 |
| 59 | 13667 | 13668 | NS | 1 | 48.645 | 49.306 | 0.0 | 0.003 | 27.702  | 2.315 | 1020.848 | 1070.64  | 17.495 | -91.507 | -89.76  | 0.0 |
| 60 | 13667 | 13668 | SN | 1 | 48.838 | 49.425 | 0.0 | 0.003 | 214.903 | 2.351 | 1055.088 | 1075.768 | 0.0    | -91.7   | -90.074 | 0.0 |
| 61 | 13668 | 13669 | NS | 1 | 48.634 | 49.5   | 0.0 | 0.0   | 116.118 | 2.544 | 1020.672 | 1070.784 | 18.414 | -94.165 | -89.758 | 0.0 |
| 62 | 13668 | 13669 | SN | 1 | 48.865 | 49.454 | 0.0 | 0.003 | 109.969 | 2.406 | 1054.16  | 1075.928 | 0.0    | -92.837 | -90.095 | 0.0 |
| 63 | 13669 | 13670 | SN | 1 | 48.724 | 49.654 | 0.0 | 0.0   | 229.639 | 2.564 | 1051.432 | 1076.656 | 0.0    | -94.439 | -90.086 | 0.0 |
| 64 | 13669 | 13670 | NS | 1 | 48.69  | 49.285 | 0.0 | 0.003 | 207.143 | 2.329 | 1019.584 | 1070.92  | 18.078 | -91.556 | -89.752 | 0.0 |
| 65 | 13670 | 13671 | NS | 1 | 48.637 | 49.286 | 0.0 | 0.003 | 210.359 | 2.129 | 1019.52  | 1070.928 | 17.541 | -91.564 | -89.752 | 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    | 13641       | 13642     | SN   | 2    | -34.987 | 25.032 | 1.901      | -34.97   | 25.783 | 2.861      | -29.964  | 28.915 | 14.026     | -30.649   | 30.465 | 20.533     | 0.116   | 305.618 | 8.08       | 0.116    | 304.371 | 6.417      | 0.116    | 96.193 | 0.112      | 0.116     | 112.607 | 0.113      |
| 2    | 13641       | 13642     | SN   | 1    | -34.987 | 24.881 | 0.376      | -34.97   | 25.792 | 2.254      | -29.964  | 28.915 | 13.868     | -30.649   | 30.465 | 20.527     | 0.116   | 305.618 | 8.5        | 0.116    | 304.371 | 7.146      | 0.116    | 96.193 | 0.113      | 0.116     | 112.607 | 0.113      |
| 3    | 13641       | 13642     | SN   | 1    | -34.987 | 25.032 | 1.901      | -34.97   | 25.783 | 2.861      | -29.964  | 28.915 | 14.026     | -30.649   | 30.465 | 20.533     | 0.116   | 305.618 | 8.08       | 0.116    | 304.371 | 6.417      | 0.116    | 96.193 | 0.112      | 0.116     | 112.607 | 0.113      |
| 4    | 13642       | 13643     | SN   | 1    | -34.946 | 27.532 | 1.671      | -34.707  | 28.052 | 2.224      | -23.069  | 34.864 | 11.83      | -23.151   | 30.7   | 8.31       | 0.116   | 302.716 | 8.682      | 0.116    | 286.475 | 7.274      | 0.116    | 19.731 | 0.054      | 0.116     | 20.106  | 0.057      |
| 5    | 13642       | 13643     | NS   | 1    | -34.495 | 28.083 | 0.289      | -33.409  | 28.473 | 0.117      | 1.762    | 32.283 | 16.686     | 4.733     | 36.383 | 31.594     | 0.116   | 272.881 | 0.958      | 0.116    | 212.494 | 0.856      | 0.116    | 0.17   | 0.0        | 0.116     | 0.142   | 0.0        |
| 6    | 13642       | 13643     | SN   | 1    | -34.946 | 27.532 | 1.771      | -34.707  | 28.052 | 2.165      | -23.069  | 34.864 | 11.832     | -23.151   | 30.7   | 8.308      | 0.116   | 302.716 | 8.434      | 0.116    | 286.475 | 7.077      | 0.116    | 19.731 | 0.054      | 0.116     | 20.106  | 0.057      |
| 7    | 13642       | 13643     | SN   | 1    | -34.946 | 27.532 | 1.771      | -34.707  | 28.052 | 2.165      | -23.069  | 34.864 | 11.832     | -23.151   | 30.7   | 8.308      | 0.116   | 302.716 | 8.434      | 0.116    | 286.475 | 7.077      | 0.116    | 19.731 | 0.054      | 0.116     | 20.106  | 0.057      |
| 8    | 13642       | 13643     | NS   | 1    | -34.108 | 28.084 | 0.289      | -34.795  | 28.474 | 0.117      | 1.767    | 32.283 | 16.635     | 4.733     | 36.383 | 31.532     | 0.116   | 249.652 | 0.957      | 0.116    | 292.366 | 0.857      | 0.116    | 0.17   | 0.0        | 0.116     | 0.142   | 0.0        |
| 9    | 13643       | 13644     | SN   | 1    | -34.694 | 24.52  | 0.047      | -34.801  | 26.172 | 0.062      | 5.057    | 31.805 | 14.889     | 5.15      | 31.022 | 12.011     | 0.116   | 285.677 | 3.99       | 0.116    | 292.75  | 3.22       | 0.116    | 0.14   | 0.0        | 0.116     | 0.14    | 0.0        |
| 10   | 13643       | 13644     | SN   | 1    | -34.694 | 24.52  | 0.047      | -34.801  | 26.172 | 0.064      | 5.057    | 31.805 | 14.893     | 5.166     | 31.022 | 12.011     | 0.116   | 285.677 | 4.061      | 0.116    | 292.75  | 3.272      | 0.116    | 0.14   | 0.0        | 0.116     | 0.14    | 0.0        |
| 11   | 13643       | 13644     | SN   | 2    | -34.694 | 24.52  | 0.047      | -34.801  | 26.172 | 0.064      | 5.057    | 31.805 | 14.892     | 5.166     | 31.022 | 12.011     | 0.116   | 285.677 | 4.061      | 0.116    | 292.75  | 3.272      | 0.116    | 0.14   | 0.0        | 0.116     | 0.14    | 0.0        |
| 12   | 13643       | 13644     | NS   | 1    | -34.532 | 25.501 | 0.017      | -34.829  | 25.795 | 0.014      | -2.644   | 29.984 | 12.107     | -6.893    | 31.254 | 21.899     | 0.116   | 275.154 | 4.813      | 0.116    | 294.72  | 4.974      | 0.116    | 0.277  | 0.0        | 0.116     | 0.568   | 0.0        |
| 13   | 13643       | 13644     | NS   | 1    | -34.731 | 25.503 | 0.017      | -34.738  | 25.793 | 0.014      | -2.644   | 29.984 | 12.089     | -6.893    | 31.253 | 21.865     | 0.116   | 288.088 | 4.811      | 0.116    | 288.592 | 4.988      | 0.116    | 0.277  | 0.0        | 0.116     | 0.568   | 0.0        |
| 14   | 13644       | 13645     | SN   | 1    | -34.297 | 24.202 | 0.11       | -34.15   | 25.014 | 0.216      | 7.103    | 27.965 | 16.951     | 7.078     | 28.081 | 10.936     | 0.116   | 260.692 | 3.11       | 0.116    | 252.059 | 2.49       | 0.116    | 0.131  | 0.0        | 0.116     | 0.131   | 0.0        |
| 15   | 13644       | 13645     | SN   | 1    | -34.297 | 24.202 | 0.108      | -34.15   | 25.014 | 0.213      | 7.103    | 27.965 | 16.906     | 7.078     | 28.081 | 10.955     | 0.116   | 260.692 | 3.054      | 0.116    | 252.059 | 2.444      | 0.116    | 0.131  | 0.0        | 0.116     | 0.131   | 0.0        |
| 16   | 13644       | 13645     | NS   | 1    | -34.963 | 24.26  | 0.009      | -34.985  | 26.561 | 0.033      | -3.839   | 29.973 | 11.107     | -3.454    | 30.301 | 21.782     | 0.116   | 303.894 | 5.492      | 0.116    | 305.408 | 5.292      | 0.116    | 0.332  | 0.0        | 0.116     | 0.312   | 0.0        |
| 17   | 13645       | 13646     | SN   | 2    | -34.713 | 24.24  | 0.178      | -34.993  | 25.003 | 0.283      | 6.501    | 28.618 | 15.792     | 7.5       | 28.699 | 18.28      | 0.116   | 286.886 | 2.026      | 0.116    | 305.998 | 1.552      | 0.116    | 0.133  | 0.0        | 0.116     | 0.129   | 0.0        |
| 18   | 13645       | 13646     | SN   | 1    | -34.727 | 24.24  | 0.178      | -34.993  | 25.003 | 0.283      | 6.501    | 28.618 | 15.792     | 7.5       | 28.699 | 18.28      | 0.116   | 287.834 | 2.026      | 0.116    | 305.998 | 1.552      | 0.116    | 0.133  | 0.0        | 0.116     | 0.129   | 0.0        |
| 19   | 13645       | 13646     | NS   | 1    | -32.977 | 28.507 | 0.039      | -34.485  | 29.078 | 0.106      | -33.477  | 29.02  | 7.157      | -20.808   | 30.841 | 13.507     | 0.116   | 192.43  | 2.896      | 0.116    | 272.254 | 2.466      | 0.116    | 215.85 | 0.053      | 0.116     | 11.762  | 0.048      |
| 20   | 13646       | 13647     | SN   | 1    | -34.561 | 23.108 | 0.024      | -34.558  | 23.414 | 0.031      | 6.478    | 28.446 | 16.719     | 7.09      | 29.14  | 19.738     | 0.116   | 277.029 | 2.343      | 0.116    | 276.892 | 2.106      | 0.116    | 0.133  | 0.0        | 0.116     | 0.131   | 0.0        |
| 21   | 13646       | 13647     | NS   | 1    | -34.727 | 23.621 | 0.011      | -34.998  | 23.069 | 0.035      | -27.328  | 29.632 | 8.826      | -15.683   | 30.27  | 14.417     | 0.116   | 287.823 | 3.106      | 0.116    | 306.375 | 2.551      | 0.116    | 52.461 | 0.01       | 0.116     | 3.676   | 0.009      |
| 22   | 13647       | 13648     | SN   | 1    | -34.991 | 22.232 | 0.003      | -34.877  | 23.145 | 0.01       | -11.548  | 28.618 | 13.025     | -15.965   | 29.364 | 13.374     | 0.116   | 305.847 | 3.964      | 0.116    | 297.952 | 3.269      | 0.116    | 1.475  | 0.003      | 0.116     | 3.916   | 0.003      |
| 23   | 13647       | 13648     | NS   | 1    | -34.406 | 28.05  | 0.376      | -34.861  | 28.102 | 0.619      | -9.005   | 30.376 | 11.728     | -10.111   | 32.314 | 17.107     | 0.116   | 267.35  | 2.185      | 0.116    | 296.879 | 2.109      | 0.116    | 0.863  | 0.0        | 0.116     | 1.086   | 0.006      |
| 24   | 13649       | 13650     | NS   | 1    | -34.764 | 27.975 | 0.396      | -34.998  | 25.224 | 0.607      | 1.544    | 29.231 | 29.138     | -0.106    | 30.461 | 45.813     | 0.116   | 290.258 | 7.142      | 0.116    | 306.295 | 7.204      | 0.116    | 0.173  | 0.0        | 0.116     | 0.202   | 0.0        |
| 25   | 13650       | 13651     | SN   | 1    | -34.744 | 28.524 | 0.101      | -34.326  | 28.663 | 0.712      | -2.195   | 30.852 | 16.991     | -3.259    | 30.456 | 15.288     | 0.116   | 288.933 | 3.675      | 0.116    | 262.49  | 2.585      | 0.116    | 0.26   | 0.0        | 0.116     | 0.303   | 0.0        |
| 26   | 13650       | 13651     | SN   | 1    | -34.41  | 28.524 | 0.101      | -34.58   | 28.663 | 0.709      | -2.19    | 30.851 | 16.991     | -3.262    | 30.456 | 15.288     | 0.116   | 267.582 | 3.675      | 0.116    | 278.262 | 2.593      | 0.116    | 0.26   | 0.0        | 0.116     | 0.304   | 0.0        |
| 27   | 13651       | 13652     | NS   | 1    | -33.857 | 27.69  | 1.309      | -31.822  | 25.933 | 1.197      | 3.22     | 28.426 | 17.191     | -10.621   | 31.742 | 26.399     | 0.116   | 235.643 | 1.488      | 0.116    | 147.479 | 1.335      | 0.116    | 0.154  | 0.0        | 0.116     | 1.209   | 0.002      |
| 28   | 13651       | 13652     | NS   | 1    | -33.857 | 27.69  | 1.309      | -31.822  | 25.933 | 1.197      | 3.22     | 28.426 | 17.191     | -10.621   | 31.742 | 26.399     | 0.116   | 235.643 | 1.488      | 0.116    | 147.479 | 1.336      | 0.116    | 0.154  | 0.0        | 0.116     | 1.209   | 0.002      |
| 29   | 13651       | 13652     | SN   | 1    | -34.742 | 27.381 | 0.025      | -34.52   | 28.965 | 1.219      | -18.032  | 31.607 | 17.625     | -22.522   | 30.524 | 17.553     | 0.116   | 288.81  | 5.167      | 0.116    | 274.456 | 4.339      | 0.116    | 6.248  | 0.023      | 0.116     | 17.412  | 0.016      |
| 30   | 13652       | 13653     | SN   | 1    | -34.315 | 24.87  | 0.029      | -34.097  | 25.473 | 2.79       | -25.083  | 31.322 | 15.058     | -16.981   | 29.967 | 15.827     | 0.116   | 261.802 | 5.213      | 0.116    | 248.996 | 4.67       | 0.116    | 31.316 | 0.005      | 0.116     | 4.925   | 0.005      |
| 31   | 13652       | 13653     | NS   | 1    | -33.969 | 24.742 | 1.448      | -34.609  | 25.857 | 1.218      | 9.256    | 28.341 | 31.922     | 11.796    | 30.171 | 48.16      | 0.116   | 241.781 | 2.539      | 0.116    | 280.166 | 2.235      | 0.116    | 0.125  | 0.0        | 0.116     | 0.121   | 0.0        |
| 32   | 13653       | 13654     | NS   | 1    | -34.453 | 24.65  | 1.114      | -34.02   | 25.326 | 0.421      | 7.239    | 27.986 | 24.737     | 12.072    | 30.037 | 48.329     | 0.116   | 270.199 | 2.425      | 0.116    | 244.616 | 2.069      | 0.116    | 0.13   | 0.0        | 0.116     | 0.12    | 0.0        |
| 33   | 13655       | 13656     | SN   | 1    | -34.868 | 24.579 | 0.495      | -34.868  | 25.535 | 1.899      | 6.984    | 29.359 | 18.668     | 8.359     | 31.021 | 21.616     | 0.116   | 297.257 | 6.253      | 0.116    | 297.351 | 5.306      | 0.116    | 0.131  | 0.0        | 0.116     | 0.127   | 0.0        |

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

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

|    |       |       |    |   |         |        |       |         |        |       |         |        |        |         |        |        |       |         |       |       |         |       |       |         |       |       |        |       |
|----|-------|-------|----|---|---------|--------|-------|---------|--------|-------|---------|--------|--------|---------|--------|--------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|--------|-------|
| 34 | 13656 | 13657 | NS | 1 | -34.154 | 29.042 | 0.557 | -34.213 | 28.377 | 0.069 | -3.289  | 32.8   | 20.082 | -15.587 | 36.383 | 33.023 | 0.116 | 252.271 | 1.671 | 0.116 | 255.715 | 1.551 | 0.116 | 0.305   | 0.0   | 0.116 | 3.597  | 0.004 |
| 35 | 13656 | 13657 | SN | 1 | -34.62  | 27.379 | 1.13  | -34.714 | 28.097 | 3.699 | -30.67  | 35.136 | 15.404 | -23.243 | 30.366 | 19.547 | 0.116 | 280.859 | 3.198 | 0.116 | 287.018 | 2.876 | 0.116 | 113.182 | 0.121 | 0.116 | 20.539 | 0.142 |
| 36 | 13657 | 13658 | SN | 1 | -34.85  | 27.687 | 1.087 | -34.631 | 27.065 | 1.36  | 5.842   | 29.687 | 12.259 | 5.71    | 29.709 | 9.375  | 0.116 | 296.142 | 6.632 | 0.116 | 281.525 | 5.742 | 0.116 | 0.136   | 0.0   | 0.116 | 0.137  | 0.0   |
| 37 | 13657 | 13658 | NS | 1 | -34.826 | 27.59  | 0.047 | -34.755 | 28.081 | 0.031 | -8.677  | 32.749 | 10.998 | -6.463  | 33.951 | 23.209 | 0.116 | 294.463 | 3.463 | 0.116 | 289.645 | 3.91  | 0.116 | 0.807   | 0.0   | 0.116 | 0.523  | 0.0   |
| 38 | 13658 | 13659 | SN | 1 | -34.959 | 24.546 | 0.128 | -34.782 | 25.057 | 0.199 | 5.684   | 28.988 | 20.176 | 7.502   | 28.952 | 17.434 | 0.116 | 303.637 | 3.585 | 0.116 | 291.494 | 3.521 | 0.116 | 0.137   | 0.0   | 0.116 | 0.129  | 0.0   |
| 39 | 13659 | 13660 | SN | 1 | -34.342 | 24.641 | 0.094 | -33.22  | 25.402 | 0.201 | 3.684   | 27.603 | 15.393 | 5.339   | 28.213 | 9.998  | 0.116 | 263.365 | 0.939 | 0.116 | 203.456 | 0.856 | 0.116 | 0.15    | 0.0   | 0.116 | 0.139  | 0.0   |
| 40 | 13659 | 13660 | NS | 1 | -33.644 | 25.954 | 0.05  | -34.136 | 23.221 | 0.07  | -11.406 | 30.224 | 8.594  | -7.568  | 32.132 | 16.818 | 0.116 | 224.349 | 2.266 | 0.116 | 251.19  | 2.329 | 0.116 | 1.43    | 0.001 | 0.116 | 0.647  | 0.0   |
| 41 | 13660 | 13661 | SN | 1 | -34.4   | 23.923 | 0.129 | -34.153 | 24.568 | 0.163 | 5.85    | 28.533 | 16.788 | 7.448   | 28.671 | 19.919 | 0.116 | 267.021 | 2.066 | 0.116 | 252.244 | 1.667 | 0.116 | 0.136   | 0.0   | 0.116 | 0.13   | 0.0   |
| 42 | 13660 | 13661 | NS | 1 | -34.721 | 22.772 | 0.008 | -34.963 | 23.044 | 0.04  | -16.359 | 29.376 | 10.109 | -7.086  | 30.229 | 17.996 | 0.116 | 287.449 | 4.487 | 0.116 | 303.898 | 4.145 | 0.116 | 4.28    | 0.004 | 0.116 | 0.589  | 0.0   |
| 43 | 13660 | 13661 | SN | 2 | -34.4   | 23.923 | 0.128 | -34.153 | 24.568 | 0.163 | 5.85    | 28.533 | 16.788 | 7.448   | 28.671 | 19.919 | 0.116 | 267.021 | 2.066 | 0.116 | 252.244 | 1.668 | 0.116 | 0.136   | 0.0   | 0.116 | 0.13   | 0.0   |
| 44 | 13660 | 13661 | NS | 1 | -34.721 | 22.772 | 0.008 | -34.963 | 23.044 | 0.04  | -16.359 | 29.376 | 10.11  | -7.086  | 30.229 | 17.996 | 0.116 | 287.449 | 4.486 | 0.116 | 303.898 | 4.145 | 0.116 | 4.28    | 0.004 | 0.116 | 0.589  | 0.0   |
| 45 | 13661 | 13662 | SN | 1 | -34.422 | 22.231 | 0.001 | -34.612 | 22.678 | 0.001 | 5.556   | 28.151 | 14.406 | 2.431   | 28.555 | 13.176 | 0.116 | 268.369 | 2.639 | 0.116 | 280.295 | 2.303 | 0.116 | 0.138   | 0.0   | 0.116 | 0.162  | 0.0   |
| 46 | 13661 | 13662 | NS | 1 | -34.546 | 23.026 | 0.003 | -34.982 | 27.914 | 0.033 | -11.68  | 31.5   | 8.366  | -10.895 | 30.878 | 14.192 | 0.116 | 276.084 | 4.941 | 0.116 | 305.238 | 5.013 | 0.116 | 1.518   | 0.007 | 0.116 | 1.282  | 0.006 |
| 47 | 13661 | 13662 | NS | 1 | -34.88  | 23.026 | 0.003 | -34.696 | 27.914 | 0.033 | -11.68  | 31.5   | 8.356  | -10.897 | 30.878 | 14.172 | 0.116 | 298.137 | 4.955 | 0.116 | 285.758 | 5.052 | 0.116 | 1.518   | 0.007 | 0.116 | 1.282  | 0.006 |
| 48 | 13661 | 13662 | SN | 1 | -34.422 | 22.231 | 0.001 | -34.612 | 22.678 | 0.001 | 5.556   | 28.151 | 15.459 | 2.431   | 28.555 | 13.332 | 0.116 | 268.369 | 2.75  | 0.116 | 280.295 | 2.436 | 0.116 | 0.138   | 0.0   | 0.116 | 0.162  | 0.0   |
| 49 | 13662 | 13663 | NS | 1 | -34.179 | 26.813 | 0.221 | -34.996 | 28.527 | 0.436 | 7.919   | 29.024 | 17.858 | 8.218   | 29.762 | 29.141 | 0.116 | 253.713 | 2.752 | 0.116 | 306.268 | 2.983 | 0.116 | 0.128   | 0.0   | 0.116 | 0.127  | 0.0   |
| 50 | 13662 | 13663 | SN | 1 | -34.813 | 24.938 | 0.043 | -34.428 | 25.374 | 0.053 | -8.186  | 32.576 | 10.28  | -1.735  | 34.758 | 9.229  | 0.116 | 293.631 | 3.897 | 0.116 | 268.666 | 3.482 | 0.116 | 0.731   | 0.0   | 0.116 | 0.245  | 0.0   |
| 51 | 13663 | 13664 | SN | 1 | -34.98  | 26.914 | 0.124 | -33.91  | 26.199 | 0.135 | -7.981  | 34.443 | 12.614 | -6.01   | 32.345 | 13.717 | 0.116 | 305.095 | 3.809 | 0.116 | 238.526 | 2.719 | 0.116 | 0.702   | 0.0   | 0.116 | 0.481  | 0.0   |
| 52 | 13663 | 13664 | NS | 1 | -34.648 | 25.227 | 0.328 | -34.592 | 25.345 | 0.495 | 3.89    | 33.431 | 22.248 | 7.245   | 30.462 | 36.11  | 0.116 | 282.612 | 4.392 | 0.116 | 279.082 | 3.982 | 0.116 | 0.148   | 0.0   | 0.116 | 0.13   | 0.0   |
| 53 | 13664 | 13665 | NS | 1 | -34.567 | 28.364 | 0.46  | -34.052 | 26.205 | 0.66  | -7.934  | 29.845 | 27.204 | -13.024 | 31.771 | 41.311 | 0.116 | 277.45  | 3.321 | 0.116 | 246.464 | 2.917 | 0.116 | 0.695   | 0.0   | 0.116 | 2.034  | 0.005 |
| 54 | 13664 | 13665 | SN | 1 | -34.861 | 27.436 | 0.16  | -34.314 | 27.908 | 0.591 | -11.831 | 29.02  | 18.613 | -2.071  | 30.707 | 17.983 | 0.116 | 296.874 | 3.972 | 0.116 | 261.75  | 3.379 | 0.116 | 1.568   | 0.002 | 0.116 | 0.256  | 0.0   |
| 55 | 13664 | 13665 | SN | 1 | -34.208 | 27.436 | 0.164 | -34.942 | 27.908 | 0.589 | -11.887 | 29.02  | 18.584 | -2.116  | 30.707 | 17.954 | 0.116 | 255.44  | 3.957 | 0.116 | 302.424 | 3.37  | 0.116 | 1.587   | 0.002 | 0.116 | 0.258  | 0.0   |
| 56 | 13665 | 13666 | NS | 2 | -34.985 | 24.194 | 0.734 | -34.786 | 24.342 | 0.618 | -9.025  | 35.052 | 14.597 | -2.882  | 32.645 | 24.582 | 0.116 | 305.448 | 3.696 | 0.116 | 291.707 | 3.236 | 0.116 | 0.866   | 0.0   | 0.116 | 0.287  | 0.0   |
| 57 | 13665 | 13666 | NS | 1 | -34.985 | 24.194 | 0.735 | -34.786 | 24.342 | 0.617 | -9.025  | 35.052 | 14.597 | -2.882  | 32.645 | 24.582 | 0.116 | 305.448 | 3.696 | 0.116 | 291.707 | 3.236 | 0.116 | 0.866   | 0.0   | 0.116 | 0.287  | 0.0   |
| 58 | 13666 | 13667 | SN | 1 | -34.914 | 22.59  | 0.005 | -34.028 | 25.308 | 1.845 | -22.451 | 29.188 | 15.342 | -24.108 | 30.21  | 14.35  | 0.116 | 300.456 | 6.023 | 0.116 | 257.659 | 4.746 | 0.116 | 17.127  | 0.027 | 0.116 | 25.039 | 0.036 |
| 59 | 13667 | 13668 | NS | 1 | -34.14  | 24.698 | 1.128 | -34.656 | 24.74  | 0.182 | 12.797  | 28.36  | 37.213 | 12.969  | 30.263 | 54.479 | 0.116 | 251.526 | 2.255 | 0.116 | 283.122 | 1.869 | 0.116 | 0.12    | 0.0   | 0.116 | 0.12   | 0.0   |
| 60 | 13667 | 13668 | SN | 1 | -34.741 | 25.22  | 0.039 | -34.632 | 26.292 | 2.724 | -3.129  | 30.253 | 15.394 | -4.791  | 29.52  | 17.891 | 0.116 | 288.705 | 3.226 | 0.116 | 281.669 | 2.831 | 0.116 | 0.298   | 0.0   | 0.116 | 0.388  | 0.0   |
| 61 | 13668 | 13669 | NS | 1 | -34.467 | 25.196 | 0.933 | -34.916 | 24.986 | 0.038 | 8.158   | 29.18  | 32.813 | -12.165 | 30.162 | 48.007 | 0.116 | 271.113 | 1.935 | 0.116 | 300.614 | 2.28  | 0.116 | 0.128   | 0.0   | 0.116 | 1.686  | 0.004 |
| 62 | 13668 | 13669 | SN | 1 | -34.527 | 23.886 | 0.206 | -34.102 | 26.007 | 1.842 | -7.671  | 29.11  | 38.567 | -10.295 | 30.136 | 43.045 | 0.116 | 274.935 | 3.51  | 0.116 | 259.846 | 3.049 | 0.116 | 0.66    | 0.0   | 0.116 | 1.129  | 0.005 |
| 63 | 13669 | 13670 | SN | 1 | -34.456 | 23.943 | 0.306 | -34.826 | 25.796 | 1.719 | -4.783  | 29.769 | 34.12  | -13.07  | 30.772 | 35.392 | 0.116 | 270.402 | 5.004 | 0.116 | 294.472 | 3.73  | 0.116 | 0.388   | 0.0   | 0.116 | 2.055  | 0.006 |
| 64 | 13669 | 13670 | NS | 1 | -34.43  | 26.825 | 0.708 | -33.613 | 27.684 | 0.107 | 7.906   | 33.391 | 21.204 | 8.074   | 30.063 | 33.055 | 0.116 | 268.816 | 1.738 | 0.116 | 222.697 | 1.364 | 0.116 | 0.128   | 0.0   | 0.116 | 0.128  | 0.0   |
| 65 | 13670 | 13671 | NS | 1 | -34.792 | 27.348 | 0.112 | -34.612 | 27.494 | 0.117 | -5.83   | 30.705 | 15.603 | -8.306  | 30.069 | 26.667 | 0.116 | 292.155 | 3.91  | 0.116 | 280.349 | 4.082 | 0.116 | 0.466   | 0.0   | 0.116 | 0.749  | 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     | 13641       | 13642     | SN   | 2    | 57.695          | 58.29  | 0.0       | 0.003         | 298.77  | 3.924     | 1236.544 | 1262.488 | 0.0       | -93.671  | -92.118 | 0.0       |
| 2     | 13641       | 13642     | SN   | 1    | 57.695          | 58.29  | 0.0       | 0.003         | 298.77  | 3.106     | 1236.544 | 1262.488 | 0.0       | -93.671  | -92.118 | 0.0       |
| 3     | 13641       | 13642     | SN   | 1    | 57.695          | 58.29  | 0.0       | 0.003         | 298.77  | 3.924     | 1236.544 | 1262.488 | 0.0       | -93.671  | -92.118 | 0.0       |
| 4     | 13642       | 13643     | SN   | 1    | 57.68           | 58.277 | 0.0       | 0.0           | 299.586 | 3.326     | 1235.4   | 1262.392 | 0.0       | -93.566  | -92.118 | 0.0       |
| 5     | 13642       | 13643     | NS   | 1    | 57.431          | 58.104 | 0.0       | 0.0           | 295.814 | 3.808     | 1196.464 | 1255.272 | 31.461    | -94.658  | -91.812 | 0.0       |
| 6     | 13642       | 13643     | SN   | 1    | 57.68           | 58.277 | 0.0       | 0.0           | 299.586 | 3.778     | 1235.4   | 1262.392 | 0.0       | -93.566  | -92.118 | 0.0       |
| 7     | 13642       | 13643     | SN   | 1    | 57.68           | 58.277 | 0.0       | 0.0           | 299.586 | 3.778     | 1235.4   | 1262.392 | 0.0       | -93.566  | -92.118 | 0.0       |
| 8     | 13642       | 13643     | NS   | 1    | 57.448          | 58.104 | 0.0       | 0.0           | 295.814 | 3.804     | 1196.6   | 1255.272 | 31.427    | -94.658  | -91.812 | 0.0       |
| 9     | 13643       | 13644     | SN   | 1    | 57.67           | 58.263 | 0.0       | 0.0           | 286.559 | 3.629     | 1235.544 | 1262.92  | 0.0       | -94.542  | -92.138 | 0.0       |
| 10    | 13643       | 13644     | SN   | 1    | 57.67           | 58.263 | 0.0       | 0.0           | 286.582 | 3.209     | 1235.544 | 1262.936 | 0.0       | -94.542  | -92.138 | 0.0       |
| 11    | 13643       | 13644     | SN   | 2    | 57.67           | 58.263 | 0.0       | 0.0           | 286.57  | 3.208     | 1235.544 | 1262.92  | 0.0       | -94.542  | -92.138 | 0.0       |
| 12    | 13643       | 13644     | NS   | 1    | 57.432          | 58.112 | 0.0       | 0.0           | 298.003 | 3.788     | 1196.56  | 1255.576 | 32.567    | -93.656  | -91.821 | 0.0       |
| 13    | 13643       | 13644     | NS   | 1    | 57.43           | 58.112 | 0.0       | 0.0           | 298.003 | 3.784     | 1196.976 | 1255.576 | 32.536    | -93.656  | -91.821 | 0.0       |
| 14    | 13644       | 13645     | SN   | 1    | 57.675          | 58.282 | 0.0       | 0.003         | 286.703 | 3.178     | 1235.464 | 1262.64  | 0.0       | -93.156  | -92.137 | 0.0       |
| 15    | 13644       | 13645     | SN   | 1    | 57.675          | 58.282 | 0.0       | 0.0           | 286.703 | 3.613     | 1235.464 | 1262.64  | 0.0       | -93.156  | -92.137 | 0.0       |
| 16    | 13644       | 13645     | NS   | 1    | 57.426          | 58.102 | 0.0       | 0.0           | 297.964 | 3.776     | 1196.576 | 1255.592 | 32.318    | -93.654  | -91.828 | 0.0       |
| 17    | 13645       | 13646     | SN   | 2    | 57.676          | 58.258 | 0.0       | 0.0           | 280.432 | 3.292     | 1236.0   | 1263.008 | 0.0       | -93.087  | -92.138 | 0.0       |
| 18    | 13645       | 13646     | SN   | 1    | 57.676          | 58.258 | 0.0       | 0.0           | 280.454 | 3.291     | 1236.0   | 1263.008 | 0.0       | -93.087  | -92.138 | 0.0       |
| 19    | 13645       | 13646     | NS   | 1    | 57.136          | 58.119 | 0.001     | 0.0           | 294.832 | 4.465     | 1197.432 | 1255.52  | 34.283    | -94.555  | -91.789 | 0.0       |
| 20    | 13646       | 13647     | SN   | 1    | 57.678          | 58.259 | 0.0       | 0.0           | 288.683 | 3.679     | 1235.952 | 1262.416 | 0.0       | -93.567  | -92.139 | 0.0       |
| 21    | 13646       | 13647     | NS   | 1    | 57.434          | 58.117 | 0.0       | 0.0           | 297.628 | 3.792     | 1196.928 | 1255.32  | 34.708    | -93.653  | -91.813 | 0.0       |
| 22    | 13647       | 13648     | SN   | 1    | 57.662          | 58.294 | 0.0       | 0.003         | 298.532 | 3.271     | 1235.656 | 1262.488 | 0.0       | -93.084  | -92.118 | 0.0       |
| 23    | 13647       | 13648     | NS   | 1    | 57.235          | 58.136 | 0.001     | 0.0           | 294.639 | 3.814     | 1190.056 | 1255.392 | 34.735    | -94.733  | -91.78  | 0.0       |
| 24    | 13649       | 13650     | NS   | 1    | 57.416          | 58.138 | 0.0       | 0.0           | 298.72  | 4.108     | 1196.888 | 1255.792 | 35.189    | -93.653  | -91.772 | 0.0       |
| 25    | 13650       | 13651     | SN   | 1    | 57.687          | 58.321 | 0.0       | 0.0           | 288.159 | 3.633     | 1236.16  | 1263.04  | 0.0       | -94.685  | -92.144 | 0.0       |
| 26    | 13650       | 13651     | SN   | 1    | 57.677          | 58.321 | 0.0       | 0.0           | 288.159 | 3.63      | 1236.192 | 1263.04  | 0.0       | -94.685  | -92.144 | 0.0       |
| 27    | 13651       | 13652     | NS   | 1    | 57.425          | 58.099 | 0.0       | 0.0           | 297.639 | 3.907     | 1196.752 | 1255.784 | 35.311    | -93.646  | -91.822 | 0.0       |
| 28    | 13651       | 13652     | NS   | 1    | 57.425          | 58.099 | 0.0       | 0.0           | 297.639 | 3.907     | 1196.752 | 1255.784 | 35.312    | -93.646  | -91.822 | 0.0       |
| 29    | 13651       | 13652     | SN   | 1    | 57.677          | 58.287 | 0.0       | 0.0           | 296.641 | 3.606     | 1236.56  | 1263.28  | 0.0       | -94.562  | -92.124 | 0.0       |
| 30    | 13652       | 13653     | SN   | 1    | 57.681          | 58.425 | 0.0       | 0.0           | 298.45  | 3.741     | 1236.496 | 1263.2   | 0.0       | -95.664  | -92.13  | 0.0       |
| 31    | 13652       | 13653     | NS   | 1    | 57.239          | 58.36  | 0.0       | 0.0           | 297.76  | 3.42      | 1196.464 | 1255.144 | 35.169    | -95.531  | -91.817 | 0.0       |
| 32    | 13653       | 13654     | NS   | 1    | 57.441          | 58.095 | 0.0       | 0.0           | 284.276 | 3.212     | 1196.432 | 1252.248 | 37.647    | -93.649  | -91.814 | 0.0       |
| 33    | 13655       | 13656     | SN   | 1    | 57.682          | 58.272 | 0.0       | 0.0           | 292.516 | 3.722     | 1237.192 | 1263.984 | 0.0       | -93.652  | -92.146 | 0.0       |
| 34    | 13656       | 13657     | NS   | 1    | 57.424          | 58.258 | 0.0       | 0.0           | 290.69  | 3.938     | 1195.368 | 1256.16  | 32.491    | -94.925  | -91.799 | 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   |

|    |       |       |    |   |        |        |     |       |         |       |          |          |        |         |         |     |
|----|-------|-------|----|---|--------|--------|-----|-------|---------|-------|----------|----------|--------|---------|---------|-----|
| 35 | 13656 | 13657 | SN | 1 | 57.696 | 58.283 | 0.0 | 0.0   | 266.849 | 3.554 | 1236.432 | 1263.968 | 0.0    | -94.464 | -92.096 | 0.0 |
| 36 | 13657 | 13658 | SN | 1 | 57.68  | 58.268 | 0.0 | 0.0   | 299.845 | 3.68  | 1236.32  | 1263.776 | 0.0    | -93.062 | -92.138 | 0.0 |
| 37 | 13657 | 13658 | NS | 1 | 57.442 | 58.095 | 0.0 | 0.0   | 296.409 | 3.631 | 1195.96  | 1256.48  | 33.214 | -93.648 | -91.808 | 0.0 |
| 38 | 13658 | 13659 | SN | 1 | 57.63  | 58.314 | 0.0 | 0.0   | 264.726 | 3.159 | 1232.984 | 1263.808 | 0.0    | -94.614 | -92.143 | 0.0 |
| 39 | 13659 | 13660 | SN | 1 | 57.491 | 58.293 | 0.0 | 0.0   | 291.876 | 3.812 | 1236.704 | 1264.0   | 0.0    | -95.208 | -92.133 | 0.0 |
| 40 | 13659 | 13660 | NS | 1 | 57.418 | 58.092 | 0.0 | 0.0   | 298.891 | 3.723 | 1195.92  | 1256.52  | 33.19  | -93.645 | -91.814 | 0.0 |
| 41 | 13660 | 13661 | SN | 1 | 57.708 | 58.286 | 0.0 | 0.0   | 288.727 | 3.77  | 1236.8   | 1263.92  | 0.0    | -93.553 | -92.143 | 0.0 |
| 42 | 13660 | 13661 | NS | 1 | 57.446 | 58.427 | 0.0 | 0.0   | 297.622 | 3.662 | 1196.512 | 1256.52  | 35.557 | -95.684 | -91.804 | 0.0 |
| 43 | 13660 | 13661 | SN | 2 | 57.708 | 58.286 | 0.0 | 0.0   | 288.727 | 3.77  | 1236.8   | 1263.92  | 0.0    | -93.553 | -92.143 | 0.0 |
| 44 | 13660 | 13661 | NS | 1 | 57.446 | 58.427 | 0.0 | 0.003 | 297.689 | 3.663 | 1196.504 | 1256.536 | 35.56  | -95.684 | -91.804 | 0.0 |
| 45 | 13661 | 13662 | SN | 1 | 57.675 | 58.292 | 0.0 | 0.0   | 298.439 | 3.67  | 1236.568 | 1263.696 | 0.0    | -94.034 | -92.137 | 0.0 |
| 46 | 13661 | 13662 | NS | 1 | 57.23  | 58.128 | 0.0 | 0.0   | 298.008 | 4.263 | 1195.992 | 1256.584 | 36.631 | -94.421 | -91.814 | 0.0 |
| 47 | 13661 | 13662 | NS | 1 | 57.23  | 58.127 | 0.0 | 0.0   | 297.931 | 4.371 | 1196.392 | 1256.56  | 36.56  | -94.421 | -91.815 | 0.0 |
| 48 | 13661 | 13662 | SN | 1 | 57.675 | 58.292 | 0.0 | 0.0   | 287.194 | 2.869 | 1236.576 | 1263.72  | 0.0    | -94.034 | -92.137 | 0.0 |
| 49 | 13662 | 13663 | NS | 1 | 57.206 | 58.166 | 0.0 | 0.0   | 296.117 | 3.317 | 1195.248 | 1256.664 | 36.818 | -95.56  | -91.812 | 0.0 |
| 50 | 13662 | 13663 | SN | 1 | 57.637 | 58.281 | 0.0 | 0.0   | 290.194 | 3.541 | 1236.688 | 1263.904 | 0.0    | -95.557 | -92.111 | 0.0 |
| 51 | 13663 | 13664 | SN | 1 | 57.689 | 58.294 | 0.0 | 0.003 | 194.023 | 1.428 | 1236.728 | 1264.208 | 0.0    | -93.096 | -92.13  | 0.0 |
| 52 | 13663 | 13664 | NS | 1 | 57.412 | 58.09  | 0.0 | 0.0   | 296.602 | 3.211 | 1196.056 | 1256.928 | 37.46  | -93.252 | -91.808 | 0.0 |
| 53 | 13664 | 13665 | NS | 1 | 57.425 | 58.274 | 0.0 | 0.003 | 298.235 | 3.972 | 1196.144 | 1257.384 | 35.849 | -95.733 | -91.77  | 0.0 |
| 54 | 13664 | 13665 | SN | 1 | 57.609 | 58.291 | 0.0 | 0.0   | 295.29  | 3.887 | 1232.696 | 1264.32  | 0.0    | -94.885 | -92.122 | 0.0 |
| 55 | 13664 | 13665 | SN | 1 | 57.609 | 58.297 | 0.0 | 0.0   | 295.29  | 3.983 | 1232.696 | 1264.312 | 0.0    | -94.885 | -92.122 | 0.0 |
| 56 | 13665 | 13666 | NS | 2 | 57.415 | 58.09  | 0.0 | 0.0   | 290.128 | 3.744 | 1195.376 | 1256.88  | 36.243 | -93.251 | -91.815 | 0.0 |
| 57 | 13665 | 13666 | NS | 1 | 57.415 | 58.09  | 0.0 | 0.0   | 290.128 | 3.743 | 1195.376 | 1256.88  | 36.239 | -93.251 | -91.815 | 0.0 |
| 58 | 13666 | 13667 | SN | 1 | 57.54  | 58.284 | 0.0 | 0.0   | 289.808 | 4.296 | 1237.376 | 1264.416 | 0.0    | -94.113 | -92.108 | 0.0 |
| 59 | 13667 | 13668 | NS | 1 | 57.423 | 58.106 | 0.0 | 0.003 | 287.111 | 3.313 | 1194.928 | 1257.104 | 36.715 | -92.968 | -91.813 | 0.0 |
| 60 | 13667 | 13668 | SN | 1 | 57.694 | 58.274 | 0.0 | 0.0   | 280.68  | 3.318 | 1236.896 | 1264.576 | 0.0    | -93.252 | -92.129 | 0.0 |
| 61 | 13668 | 13669 | NS | 1 | 57.308 | 58.18  | 0.0 | 0.0   | 290.828 | 3.562 | 1195.584 | 1257.28  | 37.205 | -95.39  | -91.811 | 0.0 |
| 62 | 13668 | 13669 | SN | 1 | 57.509 | 58.306 | 0.0 | 0.003 | 294.49  | 3.4   | 1236.76  | 1264.752 | 0.0    | -95.232 | -92.15  | 0.0 |
| 63 | 13669 | 13670 | SN | 1 | 57.444 | 58.499 | 0.0 | 0.0   | 289.471 | 3.651 | 1233.456 | 1265.376 | 0.0    | -95.881 | -92.141 | 0.0 |
| 64 | 13669 | 13670 | NS | 1 | 57.414 | 58.083 | 0.0 | 0.0   | 297.634 | 3.456 | 1195.144 | 1257.448 | 37.008 | -93.432 | -91.808 | 0.0 |
| 65 | 13670 | 13671 | NS | 1 | 57.413 | 58.094 | 0.0 | 0.003 | 285.451 | 3.37  | 1194.504 | 1257.456 | 36.442 | -92.878 | -91.804 | 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    |

|  |   |
|--|---|
|  Normal   |  Deviations  |
|  Alarming |  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    | 13641       | 13642     | SN   | 2    | -34.558 | 20.843 | 0.0        | -34.966  | 20.804 | 0.0        | -27.143  | 22.86  | 0.072      | -26.709   | 23.078 | 0.023      | 0.086   | 211.603 | 6.457      | 0.086    | 232.475 | 5.708      | 0.086    | 38.424  | 0.037      | 0.086     | 34.778  | 0.036      |  |
| 2    | 13641       | 13642     | SN   | 1    | -34.971 | 20.843 | 0.0        | -34.966  | 20.804 | 0.0        | -27.143  | 22.86  | 0.073      | -26.709   | 23.078 | 0.023      | 0.086   | 232.732 | 6.71       | 0.086    | 232.475 | 6.369      | 0.086    | 38.424  | 0.037      | 0.086     | 34.778  | 0.036      |  |
| 3    | 13641       | 13642     | SN   | 1    | -34.558 | 20.843 | 0.0        | -34.966  | 20.804 | 0.0        | -27.143  | 22.86  | 0.072      | -26.709   | 23.078 | 0.023      | 0.086   | 211.603 | 6.457      | 0.086    | 232.475 | 5.708      | 0.086    | 38.424  | 0.037      | 0.086     | 34.778  | 0.036      |  |
| 4    | 13642       | 13643     | SN   | 1    | -34.885 | 20.459 | 0.0        | -34.849  | 21.742 | 0.0        | -26.359  | 22.769 | 0.05       | -24.646   | 23.32  | 0.067      | 0.086   | 228.118 | 6.481      | 0.086    | 226.241 | 5.303      | 0.086    | 32.084  | 0.11       | 0.086     | 21.653  | 0.13       |  |
| 5    | 13642       | 13643     | NS   | 1    | -34.646 | 21.824 | 0.0        | -33.942  | 22.15  | 0.001      | -2.999   | 23.391 | 0.043      | -2.376    | 24.687 | 0.23       | 0.086   | 215.95  | 1.616      | 0.086    | 183.633 | 1.947      | 0.086    | 0.219   | 0.0        | 0.086     | 0.2     | 0.0        |  |
| 6    | 13642       | 13643     | SN   | 1    | -34.885 | 20.459 | 0.0        | -34.849  | 21.742 | 0.0        | -26.359  | 22.769 | 0.05       | -24.619   | 23.32  | 0.067      | 0.086   | 228.118 | 6.287      | 0.086    | 226.241 | 5.16       | 0.086    | 32.084  | 0.11       | 0.086     | 21.512  | 0.13       |  |
| 7    | 13642       | 13643     | SN   | 1    | -34.885 | 20.459 | 0.0        | -34.849  | 21.742 | 0.0        | -26.359  | 22.769 | 0.05       | -24.619   | 23.32  | 0.067      | 0.086   | 228.118 | 6.287      | 0.086    | 226.241 | 5.16       | 0.086    | 32.084  | 0.11       | 0.086     | 21.512  | 0.13       |  |
| 8    | 13642       | 13643     | NS   | 1    | -34.912 | 21.824 | 0.0        | -34.258  | 22.152 | 0.001      | -2.998   | 23.391 | 0.043      | -2.376    | 24.687 | 0.229      | 0.086   | 229.553 | 1.612      | 0.086    | 197.507 | 1.949      | 0.086    | 0.219   | 0.0        | 0.086     | 0.2     | 0.0        |  |
| 9    | 13643       | 13644     | SN   | 1    | -34.314 | 18.403 | 0.0        | -34.502  | 18.919 | 0.0        | 1.43     | 23.292 | 0.175      | 2.629     | 23.044 | 0.188      | 0.086   | 200.002 | 3.242      | 0.086    | 208.942 | 2.909      | 0.086    | 0.13    | 0.0        | 0.086     | 0.119   | 0.0        |  |
| 10   | 13643       | 13644     | SN   | 1    | -34.314 | 18.433 | 0.0        | -34.502  | 18.919 | 0.0        | 1.43     | 23.292 | 0.175      | 2.629     | 23.044 | 0.188      | 0.086   | 200.002 | 3.303      | 0.086    | 208.942 | 2.948      | 0.086    | 0.13    | 0.0        | 0.086     | 0.119   | 0.0        |  |
| 11   | 13643       | 13644     | SN   | 2    | -34.314 | 18.433 | 0.0        | -34.502  | 18.919 | 0.0        | 1.43     | 23.292 | 0.175      | 2.629     | 23.044 | 0.188      | 0.086   | 200.002 | 3.303      | 0.086    | 208.942 | 2.949      | 0.086    | 0.13    | 0.0        | 0.086     | 0.119   | 0.0        |  |
| 12   | 13643       | 13644     | NS   | 1    | -32.498 | 18.854 | 0.0        | -34.611  | 17.532 | 0.0        | -9.904   | 23.487 | 0.079      | -20.587   | 23.956 | 0.271      | 0.086   | 131.682 | 3.365      | 0.087    | 214.159 | 3.8        | 0.086    | 0.79    | 0.0        | 0.086     | 8.542   | 0.045      |  |
| 13   | 13643       | 13644     | NS   | 1    | -34.95  | 18.854 | 0.0        | -34.795  | 17.532 | 0.0        | -9.907   | 23.487 | 0.079      | -20.637   | 23.956 | 0.271      | 0.086   | 231.535 | 3.367      | 0.087    | 223.457 | 3.801      | 0.086    | 0.791   | 0.0        | 0.086     | 8.638   | 0.048      |  |
| 14   | 13644       | 13645     | SN   | 1    | -34.267 | 19.519 | 0.0        | -33.83   | 19.381 | 0.0        | 2.013    | 22.672 | 0.058      | 1.332     | 22.959 | 0.029      | 0.086   | 197.921 | 2.472      | 0.086    | 178.934 | 2.205      | 0.086    | 0.124   | 0.0        | 0.086     | 0.131   | 0.0        |  |
| 15   | 13644       | 13645     | SN   | 1    | -33.966 | 19.519 | 0.0        | -33.532  | 19.381 | 0.0        | 2.013    | 22.672 | 0.058      | 1.332     | 22.959 | 0.028      | 0.086   | 184.641 | 2.424      | 0.086    | 167.133 | 2.177      | 0.086    | 0.124   | 0.0        | 0.086     | 0.131   | 0.0        |  |
| 16   | 13644       | 13645     | NS   | 1    | -33.808 | 18.442 | 0.0        | -34.956  | 18.218 | 0.0        | -26.494  | 23.049 | 0.019      | -30.29    | 22.978 | 0.194      | 0.086   | 178.052 | 4.046      | 0.086    | 231.929 | 4.026      | 0.086    | 33.1    | 0.198      | 0.086     | 79.24   | 0.095      |  |
| 17   | 13645       | 13646     | SN   | 2    | -34.56  | 18.354 | 0.0        | -34.399  | 18.656 | 0.0        | 0.854    | 22.645 | 0.161      | 2.192     | 23.303 | 0.619      | 0.086   | 211.711 | 1.955      | 0.086    | 203.978 | 1.55       | 0.086    | 0.137   | 0.0        | 0.086     | 0.123   | 0.0        |  |
| 18   | 13645       | 13646     | SN   | 1    | -34.56  | 18.354 | 0.0        | -34.475  | 18.656 | 0.0        | 0.854    | 22.645 | 0.161      | 2.192     | 23.303 | 0.619      | 0.086   | 211.711 | 1.955      | 0.086    | 207.597 | 1.55       | 0.086    | 0.137   | 0.0        | 0.086     | 0.123   | 0.0        |  |
| 19   | 13645       | 13646     | NS   | 1    | -33.958 | 22.721 | 0.002      | -33.803  | 21.946 | 0.0        | -28.704  | 23.261 | 0.125      | -33.446   | 23.72  | 0.212      | 0.086   | 184.316 | 3.054      | 0.086    | 177.872 | 3.018      | 0.086    | 55.029  | 0.037      | 0.086     | 163.818 | 0.033      |  |
| 20   | 13646       | 13647     | SN   | 1    | -34.652 | 18.23  | 0.0        | -34.965  | 18.685 | 0.0        | 0.389    | 23.123 | 0.031      | 1.359     | 22.786 | 0.184      | 0.086   | 216.281 | 2.089      | 0.086    | 232.401 | 2.142      | 0.086    | 0.143   | 0.0        | 0.086     | 0.131   | 0.0        |  |
| 21   | 13646       | 13647     | NS   | 1    | -34.885 | 17.058 | 0.0        | -34.484  | 18.544 | 0.0        | -18.585  | 22.896 | 0.043      | -16.13    | 23.249 | 0.196      | 0.087   | 228.088 | 2.771      | 0.086    | 208.02  | 2.702      | 0.086    | 5.412   | 0.008      | 0.086     | 3.103   | 0.01       |  |
| 22   | 13647       | 13648     | SN   | 1    | -34.639 | 16.468 | 0.0        | -34.29   | 16.358 | 0.0        | -12.688  | 23.547 | 0.418      | -2.628    | 23.736 | 0.721      | 0.087   | 215.539 | 3.307      | 0.087    | 199.003 | 2.77       | 0.086    | 1.44    | 0.002      | 0.086     | 0.207   | 0.0        |  |
| 23   | 13647       | 13648     | NS   | 1    | -34.934 | 21.855 | 0.0        | -34.521  | 21.177 | 0.0        | -19.705  | 23.239 | 0.142      | -24.391   | 23.611 | 0.462      | 0.086   | 230.735 | 1.947      | 0.086    | 209.776 | 1.868      | 0.086    | 6.984   | 0.199      | 0.086     | 20.424  | 0.159      |  |
| 24   | 13649       | 13650     | NS   | 1    | -34.835 | 22.617 | 0.002      | -34.988  | 19.123 | 0.0        | 0.067    | 22.784 | 0.096      | -6.141    | 24.217 | 1.346      | 0.086   | 225.538 | 6.822      | 0.086    | 233.649 | 7.022      | 0.086    | 0.148   | 0.0        | 0.086     | 0.373   | 0.0        |  |
| 25   | 13650       | 13651     | SN   | 1    | -34.738 | 21.49  | 0.0        | -34.878  | 21.445 | 0.0        | -6.698   | 23.374 | 0.46       | -7.39     | 22.973 | 0.163      | 0.086   | 220.505 | 3.426      | 0.086    | 227.784 | 2.671      | 0.086    | 0.414   | 0.0        | 0.086     | 0.473   | 0.0        |  |
| 26   | 13650       | 13651     | SN   | 1    | -34.207 | 21.49  | 0.0        | -34.826  | 21.445 | 0.0        | -6.697   | 23.374 | 0.46       | -7.145    | 22.973 | 0.163      | 0.086   | 195.176 | 3.418      | 0.086    | 225.086 | 2.668      | 0.086    | 0.414   | 0.0        | 0.086     | 0.451   | 0.0        |  |
| 27   | 13651       | 13652     | NS   | 1    | -34.063 | 21.148 | 0.0        | -33.944  | 22.464 | 0.002      | 0.238    | 22.84  | 0.046      | -23.29    | 24.601 | 1.795      | 0.086   | 188.814 | 1.652      | 0.086    | 183.692 | 1.46       | 0.086    | 0.146   | 0.0        | 0.086     | 15.861  | 0.021      |  |
| 28   | 13651       | 13652     | NS   | 1    | -34.063 | 21.148 | 0.0        | -33.944  | 22.464 | 0.002      | 0.238    | 22.84  | 0.046      | -23.29    | 24.601 | 1.795      | 0.086   | 188.814 | 1.652      | 0.086    | 183.692 | 1.46       | 0.086    | 0.146   | 0.0        | 0.086     | 15.861  | 0.021      |  |
| 29   | 13651       | 13652     | SN   | 1    | -34.258 | 20.602 | 0.0        | -34.946  | 22.449 | 0.001      | -31.879  | 23.57  | 0.435      | -23.57    | 23.578 | 0.178      | 0.086   | 197.461 | 4.903      | 0.086    | 231.368 | 4.08       | 0.086    | 114.21  | 0.184      | 0.086     | 16.91   | 0.051      |  |
| 30   | 13652       | 13653     | SN   | 1    | -34.966 | 18.297 | 0.0        | -34.837  | 19.222 | 0.0        | -32.448  | 23.363 | 0.321      | -33.868   | 23.668 | 0.195      | 0.086   | 232.508 | 5.903      | 0.086    | 225.609 | 6.063      | 0.086    | 130.199 | 0.118      | 0.086     | 180.518 | 0.157      |  |
| 31   | 13652       | 13653     | NS   | 1    | -34.957 | 18.326 | 0.0        | -34.718  | 18.756 | 0.0        | 4.948    | 23.014 | 0.427      | 5.732     | 23.9   | 2.549      | 0.086   | 231.96  | 2.31       | 0.086    | 224.644 | 2.274      | 0.086    | 0.104   | 0.0        | 0.086     | 0.101   | 0.0        |  |
| 32   | 13653       | 13654     | NS   | 1    | -34.999 | 20.09  | 0.0        | -34.968  | 18.557 | 0.0        | 3.572    | 22.208 | 0.018      | 4.278     | 24.104 | 3.574      | 0.086   | 234.25  | 2.08       | 0.086    | 232.561 | 1.988      | 0.086    | 0.112   | 0.0        | 0.086     | 0.108   | 0.0        |  |

|                          |            |       |     |   |
|--------------------------|------------|-------|-----|---|
| Parameter Specifications | Parameters | SNR   | Kp  | <span style="color: green;">■</span> Normal <span style="color: yellow;">■</span> Deviations<br><span style="color: orange;">■</span> Alarming <span style="color: red;">■</span> High Errors |
|                          | Min        | -65.0 | 0.0 |   |
|                          | Max        | 22.0  | 1.0 |   |

|    |       |       |    |   |         |        |     |         |        |       |         |        |       |         |        |       |       |         |       |       |         |       |       |         |       |       |         |       |
|----|-------|-------|----|---|---------|--------|-----|---------|--------|-------|---------|--------|-------|---------|--------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|
| 33 | 13655 | 13656 | SN | 1 | -34.889 | 17.531 | 0.0 | -34.581 | 18.998 | 0.0   | 1.756   | 22.973 | 0.063 | 3.142   | 22.948 | 0.122 | 0.087 | 228.403 | 5.564 | 0.086 | 212.723 | 4.976 | 0.086 | 0.127   | 0.0   | 0.086 | 0.115   | 0.0   |
| 34 | 13656 | 13657 | NS | 1 | -34.357 | 21.712 | 0.0 | -33.112 | 21.496 | 0.0   | -0.453  | 24.667 | 0.12  | -11.432 | 24.536 | 0.474 | 0.086 | 202.033 | 1.63  | 0.086 | 151.684 | 1.847 | 0.086 | 0.157   | 0.0   | 0.086 | 1.095   | 0.002 |
| 35 | 13656 | 13657 | SN | 1 | -34.391 | 21.086 | 0.0 | -33.751 | 20.775 | 0.0   | -28.712 | 23.294 | 0.049 | -32.205 | 23.31  | 0.068 | 0.086 | 203.614 | 3.564 | 0.086 | 175.728 | 3.474 | 0.086 | 55.127  | 0.091 | 0.086 | 123.131 | 0.084 |
| 36 | 13657 | 13658 | SN | 1 | -34.987 | 20.269 | 0.0 | -34.936 | 20.609 | 0.0   | 2.072   | 23.075 | 0.066 | 0.744   | 23.187 | 0.051 | 0.086 | 233.564 | 5.706 | 0.086 | 230.828 | 5.401 | 0.086 | 0.124   | 0.0   | 0.086 | 0.138   | 0.0   |
| 37 | 13657 | 13658 | NS | 1 | -34.733 | 21.171 | 0.0 | -34.538 | 22.706 | 0.001 | -8.711  | 23.42  | 0.064 | -7.831  | 23.903 | 0.233 | 0.086 | 220.306 | 3.525 | 0.086 | 210.662 | 3.519 | 0.086 | 0.617   | 0.0   | 0.086 | 0.516   | 0.0   |
| 38 | 13658 | 13659 | SN | 1 | -34.728 | 18.447 | 0.0 | -34.608 | 19.245 | 0.0   | 1.309   | 22.226 | 0.032 | 2.712   | 22.82  | 0.038 | 0.086 | 220.066 | 3.381 | 0.086 | 214.066 | 3.195 | 0.086 | 0.132   | 0.0   | 0.086 | 0.118   | 0.0   |
| 39 | 13659 | 13660 | SN | 1 | -34.261 | 18.147 | 0.0 | -34.94  | 19.109 | 0.0   | -1.018  | 22.768 | 0.208 | 1.773   | 23.017 | 0.497 | 0.086 | 197.632 | 1.216 | 0.086 | 231.078 | 1.118 | 0.086 | 0.167   | 0.0   | 0.086 | 0.127   | 0.0   |
| 40 | 13659 | 13660 | NS | 1 | -34.08  | 18.287 | 0.0 | -34.798 | 18.765 | 0.0   | -18.536 | 23.201 | 0.039 | -32.348 | 23.696 | 0.151 | 0.086 | 189.584 | 1.947 | 0.086 | 223.618 | 2.184 | 0.086 | 5.351   | 0.011 | 0.086 | 127.24  | 0.032 |
| 41 | 13660 | 13661 | SN | 1 | -34.824 | 18.17  | 0.0 | -34.356 | 18.823 | 0.0   | 0.214   | 22.483 | 0.072 | 2.223   | 22.876 | 0.476 | 0.086 | 224.951 | 2.797 | 0.086 | 201.992 | 2.399 | 0.086 | 0.146   | 0.0   | 0.086 | 0.122   | 0.0   |
| 42 | 13660 | 13661 | NS | 1 | -34.465 | 16.72  | 0.0 | -34.679 | 17.034 | 0.0   | -19.407 | 23.773 | 0.045 | -13.774 | 23.262 | 0.123 | 0.087 | 207.14  | 3.726 | 0.087 | 217.534 | 3.792 | 0.086 | 6.526   | 0.006 | 0.086 | 1.831   | 0.005 |
| 43 | 13660 | 13661 | SN | 2 | -34.824 | 18.17  | 0.0 | -34.356 | 18.823 | 0.0   | 0.214   | 22.483 | 0.072 | 2.223   | 22.876 | 0.476 | 0.086 | 224.951 | 2.797 | 0.086 | 201.992 | 2.399 | 0.086 | 0.146   | 0.0   | 0.086 | 0.122   | 0.0   |
| 44 | 13660 | 13661 | NS | 1 | -34.465 | 16.72  | 0.0 | -34.281 | 17.034 | 0.0   | -19.407 | 23.773 | 0.045 | -13.776 | 23.262 | 0.123 | 0.087 | 207.14  | 3.726 | 0.087 | 198.553 | 3.791 | 0.086 | 6.524   | 0.006 | 0.086 | 1.832   | 0.005 |
| 45 | 13661 | 13662 | SN | 1 | -34.606 | 17.936 | 0.0 | -34.95  | 17.635 | 0.0   | 0.279   | 22.351 | 0.056 | -2.354  | 22.367 | 0.026 | 0.086 | 213.957 | 3.248 | 0.087 | 231.582 | 3.157 | 0.086 | 0.145   | 0.0   | 0.086 | 0.199   | 0.0   |
| 46 | 13661 | 13662 | NS | 1 | -34.382 | 18.386 | 0.0 | -34.837 | 19.338 | 0.0   | -33.927 | 22.911 | 0.037 | -26.043 | 23.252 | 0.317 | 0.086 | 203.223 | 3.534 | 0.086 | 225.58  | 3.676 | 0.086 | 183.014 | 0.305 | 0.086 | 29.841  | 0.102 |
| 47 | 13661 | 13662 | NS | 1 | -34.919 | 18.386 | 0.0 | -34.699 | 19.347 | 0.0   | -33.667 | 22.911 | 0.037 | -26.112 | 23.252 | 0.317 | 0.086 | 229.88  | 3.542 | 0.086 | 218.58  | 3.667 | 0.086 | 172.358 | 0.305 | 0.086 | 30.32   | 0.102 |
| 48 | 13661 | 13662 | SN | 1 | -34.606 | 17.936 | 0.0 | -34.765 | 17.635 | 0.0   | 0.279   | 22.351 | 0.063 | -2.354  | 22.367 | 0.027 | 0.086 | 213.957 | 3.356 | 0.087 | 221.977 | 3.326 | 0.086 | 0.145   | 0.0   | 0.086 | 0.199   | 0.0   |
| 49 | 13662 | 13663 | NS | 1 | -34.816 | 21.671 | 0.0 | -34.834 | 22.026 | 0.001 | -5.651  | 22.204 | 0.031 | 1.744   | 23.252 | 0.66  | 0.086 | 224.565 | 2.325 | 0.086 | 225.483 | 2.231 | 0.086 | 0.341   | 0.0   | 0.086 | 0.127   | 0.0   |
| 50 | 13662 | 13663 | SN | 1 | -34.976 | 17.084 | 0.0 | -34.759 | 18.433 | 0.0   | -5.642  | 23.306 | 0.436 | -1.027  | 22.956 | 0.036 | 0.087 | 232.942 | 3.103 | 0.086 | 221.667 | 2.743 | 0.086 | 0.34    | 0.0   | 0.086 | 0.168   | 0.0   |
| 51 | 13663 | 13664 | SN | 1 | -34.837 | 20.06  | 0.0 | -34.321 | 19.618 | 0.0   | -12.374 | 23.581 | 0.434 | -18.647 | 23.021 | 0.005 | 0.086 | 225.66  | 2.69  | 0.086 | 200.425 | 2.236 | 0.086 | 1.344   | 0.002 | 0.086 | 5.489   | 0.002 |
| 52 | 13663 | 13664 | NS | 1 | -34.84  | 20.651 | 0.0 | -34.931 | 21.043 | 0.0   | 1.784   | 22.67  | 0.109 | 2.158   | 24.67  | 0.928 | 0.086 | 225.775 | 3.922 | 0.086 | 230.587 | 3.383 | 0.086 | 0.126   | 0.0   | 0.086 | 0.123   | 0.0   |
| 53 | 13664 | 13665 | NS | 1 | -34.809 | 21.873 | 0.0 | -34.948 | 18.863 | 0.0   | -0.634  | 23.037 | 0.098 | -12.896 | 24.35  | 2.277 | 0.086 | 224.211 | 3.346 | 0.086 | 231.45  | 3.159 | 0.086 | 0.16    | 0.0   | 0.086 | 1.507   | 0.009 |
| 54 | 13664 | 13665 | SN | 1 | -34.748 | 19.468 | 0.0 | -34.003 | 20.41  | 0.0   | -21.071 | 23.501 | 0.357 | -6.039  | 24.163 | 0.351 | 0.086 | 221.121 | 3.626 | 0.086 | 186.202 | 3.394 | 0.086 | 9.543   | 0.03  | 0.086 | 0.366   | 0.0   |
| 55 | 13664 | 13665 | SN | 1 | -34.069 | 19.468 | 0.0 | -34.945 | 20.41  | 0.0   | -21.108 | 23.501 | 0.356 | -6.019  | 24.163 | 0.348 | 0.086 | 189.064 | 3.619 | 0.086 | 231.325 | 3.398 | 0.086 | 9.623   | 0.03  | 0.086 | 0.364   | 0.0   |
| 56 | 13665 | 13666 | NS | 2 | -34.946 | 18.515 | 0.0 | -34.728 | 19.048 | 0.0   | -9.03   | 22.67  | 0.026 | -0.752  | 24.362 | 1.989 | 0.086 | 231.417 | 2.695 | 0.086 | 220.061 | 2.478 | 0.086 | 0.658   | 0.0   | 0.086 | 0.162   | 0.0   |
| 57 | 13665 | 13666 | NS | 1 | -34.946 | 18.515 | 0.0 | -34.728 | 19.048 | 0.0   | -9.03   | 22.67  | 0.026 | -0.752  | 24.362 | 1.989 | 0.086 | 231.417 | 2.695 | 0.086 | 220.061 | 2.478 | 0.086 | 0.658   | 0.0   | 0.086 | 0.162   | 0.0   |
| 58 | 13666 | 13667 | SN | 1 | -34.82  | 21.394 | 0.0 | -34.959 | 22.327 | 0.002 | -23.137 | 23.634 | 0.341 | -26.551 | 23.628 | 0.133 | 0.086 | 224.738 | 5.509 | 0.086 | 232.024 | 4.628 | 0.086 | 15.313  | 0.02  | 0.086 | 33.534  | 0.009 |
| 59 | 13667 | 13668 | NS | 1 | -34.581 | 18.583 | 0.0 | -34.905 | 17.181 | 0.0   | 6.27    | 22.489 | 0.053 | 7.019   | 23.864 | 2.309 | 0.086 | 212.782 | 1.825 | 0.087 | 229.194 | 1.608 | 0.086 | 0.099   | 0.0   | 0.086 | 0.097   | 0.0   |
| 60 | 13667 | 13668 | SN | 1 | -34.942 | 18.595 | 0.0 | -33.407 | 19.214 | 0.0   | -16.789 | 23.608 | 0.393 | -16.588 | 23.594 | 0.293 | 0.086 | 231.128 | 2.932 | 0.086 | 162.379 | 2.525 | 0.086 | 3.6     | 0.005 | 0.086 | 3.44    | 0.008 |
| 61 | 13668 | 13669 | NS | 1 | -34.987 | 18.493 | 0.0 | -34.974 | 17.659 | 0.0   | 1.533   | 22.812 | 0.306 | -6.367  | 24.03  | 2.957 | 0.086 | 233.513 | 2.39  | 0.087 | 232.917 | 2.709 | 0.086 | 0.129   | 0.0   | 0.086 | 0.389   | 0.0   |
| 62 | 13668 | 13669 | SN | 1 | -34.979 | 19.087 | 0.0 | -34.906 | 19.076 | 0.0   | -30.867 | 22.664 | 0.093 | -33.025 | 23.187 | 0.394 | 0.086 | 233.167 | 3.394 | 0.086 | 229.245 | 3.082 | 0.086 | 90.484  | 0.313 | 0.086 | 148.703 | 0.446 |
| 63 | 13669 | 13670 | SN | 1 | -34.908 | 17.721 | 0.0 | -34.963 | 19.231 | 0.0   | -17.439 | 22.822 | 0.148 | -7.476  | 23.077 | 0.582 | 0.086 | 229.314 | 4.476 | 0.086 | 232.289 | 3.547 | 0.086 | 4.171   | 0.016 | 0.086 | 0.481   | 0.0   |
| 64 | 13669 | 13670 | NS | 1 | -33.412 | 19.967 | 0.0 | -34.948 | 19.936 | 0.0   | -24.648 | 23.595 | 1.697 | 2.595   | 24.38  | 2.609 | 0.086 | 162.514 | 2.394 | 0.086 | 231.486 | 2.266 | 0.086 | 21.659  | 0.022 | 0.086 | 0.119   | 0.0   |
| 65 | 13670 | 13671 | NS | 1 | -33.956 | 21.822 | 0.0 | -34.806 | 21.23  | 0.0   | -3.948  | 23.521 | 0.612 | -2.235  | 26.172 | 1.068 | 0.086 | 184.265 | 3.382 | 0.086 | 224.046 | 3.937 | 0.086 | 0.254   | 0.0   | 0.086 | 0.196   | 0.0   |

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

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