





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

Report between 14-MAR-2017 To 15-MAR-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     | 2448        | 2449      | SN   | 2    | 48.701          | 49.536 | 0.0       | 0.008         | 7.109   | 0.158     | 1033.096 | 1095.784 | 0.051     | -91.436  | -90.041 | 0.0       |
| 2     | 2448        | 2449      | NS   | 1    | 48.73           | 49.418 | 0.0       | 0.003         | 1.82    | 0.194     | 1035.8   | 1095.856 | 0.484     | -91.276  | -90.066 | 0.0       |
| 3     | 2448        | 2449      | SN   | 1    | 48.701          | 49.536 | 0.0       | 0.008         | 7.109   | 0.158     | 1033.096 | 1095.784 | 0.051     | -91.436  | -90.041 | 0.0       |
| 4     | 2449        | 2450      | NS   | 2    | 48.707          | 49.423 | 0.0       | 0.003         | 1.814   | 0.187     | 1035.928 | 1095.784 | 0.143     | -91.294  | -90.052 | 0.0       |
| 5     | 2449        | 2450      | NS   | 1    | 48.707          | 49.423 | 0.0       | 0.003         | 1.814   | 0.187     | 1035.928 | 1095.784 | 0.143     | -91.294  | -90.052 | 0.0       |
| 6     | 2449        | 2450      | SN   | 1    | 48.719          | 49.41  | 0.0       | 0.003         | 1.82    | 0.141     | 1032.976 | 1095.704 | 0.002     | -91.383  | -90.039 | 0.0       |
| 7     | 2449        | 2450      | SN   | 2    | 48.719          | 49.41  | 0.0       | 0.003         | 1.82    | 0.141     | 1032.976 | 1095.704 | 0.002     | -91.383  | -90.039 | 0.0       |
| 8     | 2450        | 2451      | NS   | 1    | 48.745          | 49.434 | 0.0       | 0.003         | 1.814   | 0.184     | 1036.208 | 1096.0   | 0.95      | -91.264  | -89.983 | 0.0       |
| 9     | 2450        | 2451      | SN   | 1    | 48.685          | 49.449 | 0.0       | 0.003         | 1.814   | 0.138     | 1032.224 | 1095.888 | 0.19      | -91.351  | -90.021 | 0.0       |
| 10    | 2450        | 2451      | NS   | 2    | 48.745          | 49.434 | 0.0       | 0.003         | 1.814   | 0.184     | 1036.208 | 1096.0   | 0.95      | -91.264  | -89.983 | 0.0       |
| 11    | 2450        | 2451      | SN   | 2    | 48.685          | 49.449 | 0.0       | 0.003         | 1.814   | 0.138     | 1032.224 | 1095.888 | 0.19      | -91.351  | -90.021 | 0.0       |
| 12    | 2451        | 2452      | SN   | 1    | 48.694          | 49.407 | 0.0       | 0.003         | 1.814   | 0.135     | 1031.952 | 1095.8   | 0.136     | -91.367  | -90.037 | 0.0       |
| 13    | 2451        | 2452      | NS   | 2    | 48.733          | 49.423 | 0.0       | 0.003         | 2.145   | 0.205     | 1035.64  | 1095.984 | 0.906     | -91.404  | -90.034 | 0.0       |
| 14    | 2451        | 2452      | NS   | 1    | 48.733          | 49.423 | 0.0       | 0.003         | 2.145   | 0.205     | 1035.64  | 1095.984 | 0.906     | -91.404  | -90.034 | 0.0       |
| 15    | 2451        | 2452      | SN   | 2    | 48.694          | 49.407 | 0.0       | 0.003         | 1.814   | 0.135     | 1031.952 | 1095.8   | 0.136     | -91.367  | -90.037 | 0.0       |
| 16    | 2452        | 2453      | SN   | 4    | 48.68           | 49.424 | 0.0       | 0.003         | 334.066 | 0.138     | 1031.744 | 1095.664 | 0.0       | -91.364  | -90.045 | 0.0       |
| 17    | 2452        | 2453      | NS   | 1    | 48.745          | 49.476 | 0.0       | 0.003         | 1.82    | 0.188     | 1036.472 | 1095.848 | 0.442     | -91.396  | -90.052 | 0.0       |
| 18    | 2452        | 2453      | SN   | 2    | 48.68           | 49.424 | 0.0       | 0.003         | 334.066 | 0.138     | 1031.744 | 1095.664 | 0.0       | -91.364  | -90.045 | 0.0       |
| 19    | 2452        | 2453      | NS   | 3    | 48.745          | 49.476 | 0.0       | 0.003         | 1.82    | 0.188     | 1036.472 | 1095.848 | 0.442     | -91.396  | -90.052 | 0.0       |
| 20    | 2453        | 2454      | NS   | 1    | 48.721          | 49.442 | 0.0       | 0.003         | 1.814   | 0.19      | 1036.216 | 1095.768 | 0.098     | -91.394  | -90.072 | 0.0       |
| 21    | 2453        | 2454      | SN   | 2    | 48.7            | 49.452 | 0.0       | 0.003         | 1.814   | 0.139     | 1031.744 | 1095.592 | 0.0       | -91.432  | -90.055 | 0.0       |
| 22    | 2453        | 2454      | SN   | 1    | 48.7            | 49.452 | 0.0       | 0.003         | 1.814   | 0.139     | 1031.744 | 1095.592 | 0.0       | -91.432  | -90.055 | 0.0       |
| 23    | 2453        | 2454      | NS   | 2    | 48.721          | 49.442 | 0.0       | 0.003         | 1.814   | 0.19      | 1036.216 | 1095.768 | 0.098     | -91.394  | -90.072 | 0.0       |
| 24    | 2454        | 2455      | NS   | 1    | 48.73           | 49.476 | 0.0       | 0.003         | 1.814   | 0.187     | 1036.504 | 1095.656 | 0.0       | -91.377  | -90.049 | 0.0       |
| 25    | 2454        | 2455      | SN   | 1    | 48.721          | 49.422 | 0.0       | 0.003         | 1.814   | 0.142     | 1032.264 | 1095.488 | 0.0       | -91.253  | -90.035 | 0.0       |
| 26    | 2455        | 2456      | SN   | 1    | 48.714          | 49.407 | 0.0       | 0.003         | 1.814   | 0.144     | 1032.688 | 1095.568 | 0.0       | -91.183  | -90.005 | 0.0       |
| 27    | 2455        | 2456      | NS   | 1    | 48.728          | 49.418 | 0.0       | 0.003         | 1.814   | 0.185     | 1036.352 | 1095.712 | 0.012     | -91.413  | -90.072 | 0.0       |
| 28    | 2456        | 2457      | SN   | 1    | 48.721          | 49.432 | 0.0       | 0.003         | 1.814   | 0.14      | 1032.744 | 1095.64  | 0.0       | -91.256  | -89.981 | 0.0       |
| 29    | 2456        | 2457      | NS   | 1    | 48.709          | 49.473 | 0.0       | 0.003         | 1.814   | 0.187     | 1036.384 | 1095.776 | 0.144     | -91.391  | -90.075 | 0.0       |
| 30    | 2457        | 2458      | SN   | 1    | 48.72           | 49.406 | 0.0       | 0.003         | 1.814   | 0.138     | 1032.368 | 1095.56  | 0.0       | -91.397  | -89.986 | 0.0       |
| 31    | 2457        | 2458      | NS   | 1    | 48.748          | 49.472 | 0.0       | 0.003         | 1.814   | 0.19      | 1036.376 | 1095.704 | 0.002     | -91.494  | -90.061 | 0.0       |
| 32    | 2458        | 2459      | SN   | 1    | 48.698          | 49.406 | 0.0       | 0.003         | 1.814   | 0.14      | 1032.552 | 1095.44  | 0.0       | -91.196  | -90.025 | 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 | 2458 | 2459 | NS | 1 | 48.74  | 49.467 | 0.0 | 0.003 | 6.044   | 0.203 | 1035.992 | 1095.576 | 0.0   | -91.294 | -90.04  | 0.0 |
| 34 | 2459 | 2460 | NS | 1 | 48.714 | 49.468 | 0.0 | 0.003 | 1.814   | 0.187 | 1035.904 | 1095.624 | 0.0   | -91.414 | -90.072 | 0.0 |
| 35 | 2459 | 2460 | SN | 1 | 48.718 | 49.406 | 0.0 | 0.003 | 1.908   | 0.141 | 1032.576 | 1095.536 | 0.0   | -91.403 | -90.032 | 0.0 |
| 36 | 2460 | 2461 | SN | 2 | 48.683 | 49.45  | 0.0 | 0.003 | 195.556 | 0.141 | 1032.552 | 1095.544 | 0.0   | -91.382 | -90.03  | 0.0 |
| 37 | 2460 | 2461 | NS | 1 | 48.714 | 49.42  | 0.0 | 0.003 | 1.814   | 0.186 | 1035.72  | 1095.64  | 0.0   | -91.297 | -90.08  | 0.0 |
| 38 | 2461 | 2462 | NS | 1 | 48.7   | 49.437 | 0.0 | 0.003 | 1.814   | 0.185 | 1035.536 | 1095.712 | 0.008 | -91.232 | -90.059 | 0.0 |
| 39 | 2461 | 2462 | SN | 1 | 48.717 | 49.417 | 0.0 | 0.003 | 195.457 | 0.138 | 1032.528 | 1095.592 | 0.0   | -91.282 | -90.036 | 0.0 |
| 40 | 2462 | 2463 | NS | 1 | 48.714 | 49.442 | 0.0 | 0.003 | 6.006   | 0.201 | 1036.328 | 1095.744 | 0.041 | -91.856 | -90.062 | 0.0 |
| 41 | 2462 | 2463 | SN | 1 | 48.718 | 49.447 | 0.0 | 0.003 | 1.814   | 0.144 | 1032.656 | 1095.616 | 0.0   | -91.582 | -90.041 | 0.0 |
| 42 | 2463 | 2464 | SN | 1 | 48.697 | 49.453 | 0.0 | 0.003 | 1.814   | 0.146 | 1032.072 | 1095.416 | 0.0   | -91.367 | -90.026 | 0.0 |
| 43 | 2463 | 2464 | NS | 1 | 48.748 | 49.448 | 0.0 | 0.003 | 1.82    | 0.195 | 1036.576 | 1095.592 | 0.0   | -91.296 | -90.064 | 0.0 |
| 44 | 2464 | 2465 | SN | 1 | 48.716 | 49.453 | 0.0 | 0.003 | 6.127   | 0.151 | 1032.088 | 1095.552 | 0.0   | -91.264 | -90.01  | 0.0 |
| 45 | 2464 | 2465 | NS | 1 | 48.749 | 49.468 | 0.0 | 0.003 | 1.82    | 0.185 | 1036.744 | 1095.784 | 0.125 | -91.339 | -90.016 | 0.0 |
| 46 | 2465 | 2466 | SN | 1 | 48.695 | 49.434 | 0.0 | 0.003 | 1.82    | 0.137 | 1031.48  | 1095.648 | 0.0   | -91.464 | -90.038 | 0.0 |
| 47 | 2465 | 2466 | NS | 1 | 48.749 | 49.451 | 0.0 | 0.003 | 2.189   | 0.202 | 1036.888 | 1095.904 | 0.576 | -91.376 | -90.051 | 0.0 |
| 48 | 2466 | 2467 | NS | 2 | 48.739 | 49.473 | 0.0 | 0.003 | 1.82    | 0.19  | 1036.992 | 1095.808 | 0.243 | -91.389 | -90.029 | 0.0 |
| 49 | 2466 | 2467 | SN | 1 | 48.683 | 49.404 | 0.0 | 0.003 | 1.814   | 0.138 | 1031.288 | 1095.552 | 0.0   | -91.353 | -90.034 | 0.0 |
| 50 | 2467 | 2468 | SN | 1 | 48.692 | 49.405 | 0.0 | 0.003 | 1.82    | 0.14  | 1031.408 | 1095.48  | 0.0   | -91.362 | -90.037 | 0.0 |
| 51 | 2467 | 2468 | NS | 1 | 48.75  | 49.453 | 0.0 | 0.003 | 6.006   | 0.202 | 1037.072 | 1095.72  | 0.009 | -91.361 | -90.062 | 0.0 |
| 52 | 2469 | 2470 | SN | 1 | 48.695 | 49.436 | 0.0 | 0.003 | 1.814   | 0.143 | 1032.168 | 1095.216 | 0.0   | -91.307 | -90.03  | 0.0 |
| 53 | 2470 | 2471 | NS | 1 | 48.722 | 49.463 | 0.0 | 0.003 | 1.814   | 0.188 | 1036.936 | 1095.68  | 0.0   | -91.389 | -90.078 | 0.0 |
| 54 | 2470 | 2471 | SN | 1 | 48.719 | 49.427 | 0.0 | 0.003 | 1.814   | 0.142 | 1032.288 | 1095.352 | 0.0   | -91.282 | -90.0   | 0.0 |
| 55 | 2471 | 2472 | NS | 1 | 48.75  | 49.452 | 0.0 | 0.003 | 1.814   | 0.192 | 1037.072 | 1095.68  | 0.0   | -91.307 | -90.079 | 0.0 |
| 56 | 2471 | 2472 | SN | 1 | 48.713 | 49.443 | 0.0 | 0.003 | 342.173 | 0.137 | 1032.008 | 1095.488 | 0.0   | -91.755 | -89.977 | 0.0 |
| 57 | 2472 | 2473 | NS | 1 | 48.751 | 49.477 | 0.0 | 0.003 | 1.814   | 0.188 | 1036.888 | 1095.544 | 0.0   | -91.655 | -90.081 | 0.0 |
| 58 | 2472 | 2473 | SN | 1 | 48.692 | 49.404 | 0.0 | 0.003 | 1.814   | 0.138 | 1031.448 | 1095.344 | 0.0   | -91.301 | -90.002 | 0.0 |
| 59 | 2473 | 2474 | NS | 1 | 48.724 | 49.463 | 0.0 | 0.003 | 1.814   | 0.187 | 1036.488 | 1095.552 | 0.0   | -91.583 | -90.084 | 0.0 |
| 60 | 2473 | 2474 | SN | 1 | 48.717 | 49.454 | 0.0 | 0.003 | 1.814   | 0.142 | 1031.952 | 1095.384 | 0.0   | -91.24  | -90.016 | 0.0 |
| 61 | 2474 | 2475 | SN | 1 | 48.672 | 49.446 | 0.0 | 0.003 | 1.814   | 0.14  | 1032.032 | 1095.432 | 0.0   | -91.409 | -90.025 | 0.0 |
| 62 | 2474 | 2475 | NS | 1 | 48.706 | 49.429 | 0.0 | 0.003 | 1.814   | 0.185 | 1036.352 | 1095.584 | 0.0   | -91.397 | -90.079 | 0.0 |
| 63 | 2475 | 2476 | NS | 1 | 48.714 | 49.436 | 0.0 | 0.003 | 6.028   | 0.2   | 1036.952 | 1095.648 | 0.0   | -91.235 | -90.078 | 0.0 |
| 64 | 2475 | 2476 | SN | 2 | 48.715 | 49.427 | 0.0 | 0.003 | 1.814   | 0.138 | 1031.608 | 1095.424 | 0.0   | -91.296 | -90.028 | 0.0 |
| 65 | 2476 | 2477 | NS | 1 | 48.739 | 49.447 | 0.0 | 0.003 | 6.017   | 0.197 | 1036.896 | 1093.4   | 0.0   | -91.803 | -90.095 | 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    | 2448        | 2449      | SN   | 2    | -34.951 | 24.373 | 1.11       | -34.563  | 24.896 | 1.492      | 0.868    | 29.335 | 13.407     | 4.312     | 30.065 | 15.841     | 0.103   | 264.134 | 1.917      | 0.103    | 241.573 | 1.763      | 0.103    | 0.162 | 0.0        | 0.103     | 0.128 | 0.0        |
| 2    | 2448        | 2449      | NS   | 1    | -34.878 | 29.065 | 0.736      | -34.674  | 28.833 | 0.68       | 6.16     | 32.085 | 11.347     | 6.292     | 32.374 | 18.613     | 0.103   | 259.772 | 4.589      | 0.103    | 247.85  | 4.19       | 0.102    | 0.119 | 0.0        | 0.102     | 0.119 | 0.0        |
| 3    | 2448        | 2449      | SN   | 1    | -34.951 | 24.373 | 1.11       | -34.563  | 24.896 | 1.492      | 0.868    | 29.335 | 13.407     | 4.312     | 30.065 | 15.841     | 0.103   | 264.134 | 1.917      | 0.103    | 241.573 | 1.763      | 0.103    | 0.162 | 0.0        | 0.103     | 0.128 | 0.0        |
| 4    | 2449        | 2450      | NS   | 2    | -34.838 | 29.256 | 0.443      | -34.403  | 29.58  | 0.529      | 6.707    | 33.385 | 9.788      | 7.132     | 36.016 | 18.256     | 0.103   | 257.382 | 4.221      | 0.103    | 242.433 | 3.68       | 0.102    | 0.117 | 0.0        | 0.102     | 0.116 | 0.0        |
| 5    | 2449        | 2450      | NS   | 1    | -34.838 | 29.256 | 0.443      | -34.403  | 29.58  | 0.529      | 6.707    | 33.385 | 9.788      | 7.132     | 36.016 | 18.256     | 0.103   | 257.382 | 4.221      | 0.103    | 242.433 | 3.68       | 0.102    | 0.117 | 0.0        | 0.102     | 0.116 | 0.0        |
| 6    | 2449        | 2450      | SN   | 1    | -34.793 | 25.789 | 0.879      | -34.996  | 27.458 | 1.359      | -19.026  | 28.906 | 11.994     | -11.423   | 29.28  | 11.623     | 0.103   | 254.747 | 4.049      | 0.103    | 266.861 | 3.676      | 0.103    | 6.829 | 0.014      | 0.103     | 1.253 | 0.002      |
| 7    | 2449        | 2450      | SN   | 2    | -34.793 | 25.789 | 0.879      | -34.996  | 27.458 | 1.359      | -19.026  | 28.906 | 11.994     | -11.423   | 29.28  | 11.623     | 0.103   | 254.747 | 4.049      | 0.103    | 266.861 | 3.676      | 0.103    | 6.829 | 0.014      | 0.103     | 1.253 | 0.002      |
| 8    | 2450        | 2451      | NS   | 1    | -34.761 | 27.469 | 0.169      | -34.968  | 27.695 | 0.201      | -5.066   | 29.042 | 6.199      | -10.038   | 29.359 | 12.062     | 0.103   | 252.832 | 7.456      | 0.103    | 265.185 | 8.316      | 0.103    | 0.357 | 0.0        | 0.103     | 0.934 | 0.0        |
| 9    | 2450        | 2451      | SN   | 1    | -34.948 | 25.755 | 0.078      | -34.847  | 27.378 | 0.144      | 3.807    | 29.978 | 11.734     | 5.797     | 28.597 | 7.828      | 0.103   | 263.974 | 6.525      | 0.103    | 257.912 | 5.024      | 0.103    | 0.132 | 0.0        | 0.103     | 0.121 | 0.0        |
| 10   | 2450        | 2451      | NS   | 2    | -34.761 | 27.469 | 0.169      | -34.968  | 27.695 | 0.201      | -5.066   | 29.042 | 6.199      | -10.038   | 29.359 | 12.062     | 0.103   | 252.832 | 7.456      | 0.103    | 265.185 | 8.316      | 0.103    | 0.357 | 0.0        | 0.103     | 0.934 | 0.0        |
| 11   | 2450        | 2451      | SN   | 2    | -34.948 | 25.755 | 0.078      | -34.847  | 27.378 | 0.144      | 3.807    | 29.978 | 11.734     | 5.797     | 28.597 | 7.828      | 0.103   | 263.974 | 6.525      | 0.103    | 257.912 | 5.024      | 0.103    | 0.132 | 0.0        | 0.103     | 0.121 | 0.0        |
| 12   | 2451        | 2452      | SN   | 1    | -34.923 | 25.778 | 0.121      | -34.741  | 26.049 | 0.128      | 6.703    | 27.866 | 14.688     | 6.696     | 28.304 | 11.126     | 0.103   | 262.399 | 3.812      | 0.103    | 251.685 | 3.453      | 0.103    | 0.117 | 0.0        | 0.103     | 0.117 | 0.0        |
| 13   | 2451        | 2452      | NS   | 2    | -34.965 | 26.596 | 0.061      | -34.713  | 28.068 | 0.073      | -0.83    | 28.431 | 7.689      | -1.756    | 29.808 | 13.251     | 0.103   | 265.018 | 3.138      | 0.103    | 250.055 | 3.905      | 0.103    | 0.193 | 0.0        | 0.103     | 0.216 | 0.0        |
| 14   | 2451        | 2452      | NS   | 1    | -34.965 | 26.596 | 0.061      | -34.713  | 28.068 | 0.073      | -0.83    | 28.431 | 7.689      | -1.756    | 29.808 | 13.251     | 0.103   | 265.018 | 3.138      | 0.103    | 250.055 | 3.905      | 0.103    | 0.193 | 0.0        | 0.103     | 0.216 | 0.0        |
| 15   | 2451        | 2452      | SN   | 2    | -34.923 | 25.778 | 0.121      | -34.741  | 26.049 | 0.128      | 6.703    | 27.866 | 14.688     | 6.696     | 28.304 | 11.126     | 0.103   | 262.399 | 3.812      | 0.103    | 251.685 | 3.453      | 0.103    | 0.117 | 0.0        | 0.103     | 0.117 | 0.0        |
| 16   | 2452        | 2453      | SN   | 4    | -34.264 | 25.54  | 0.204      | -34.68   | 26.239 | 0.221      | 6.366    | 28.032 | 18.9       | 7.461     | 28.219 | 21.974     | 0.103   | 225.496 | 6.15       | 0.103    | 248.168 | 5.5        | 0.103    | 0.118 | 0.0        | 0.103     | 0.115 | 0.0        |
| 17   | 2452        | 2453      | NS   | 1    | -34.82  | 21.35  | 0.0        | -34.139  | 21.657 | 0.0        | -7.716   | 28.86  | 4.565      | -6.879    | 30.26  | 8.386      | 0.103   | 256.278 | 2.688      | 0.103    | 219.067 | 2.845      | 0.103    | 0.583 | 0.0        | 0.103     | 0.496 | 0.0        |
| 18   | 2452        | 2453      | SN   | 2    | -34.264 | 25.54  | 0.204      | -34.68   | 26.239 | 0.221      | 6.366    | 28.032 | 18.9       | 7.461     | 28.219 | 21.974     | 0.103   | 225.496 | 6.15       | 0.103    | 248.168 | 5.5        | 0.103    | 0.118 | 0.0        | 0.103     | 0.115 | 0.0        |
| 19   | 2452        | 2453      | NS   | 3    | -34.82  | 21.35  | 0.0        | -34.139  | 21.657 | 0.0        | -7.716   | 28.86  | 4.565      | -6.879    | 30.26  | 8.386      | 0.103   | 256.278 | 2.688      | 0.103    | 219.067 | 2.845      | 0.103    | 0.583 | 0.0        | 0.103     | 0.496 | 0.0        |
| 20   | 2453        | 2454      | NS   | 1    | -34.877 | 23.75  | 0.023      | -34.923  | 23.048 | 0.034      | -7.359   | 28.301 | 5.173      | -17.071   | 28.434 | 9.395      | 0.103   | 259.624 | 2.898      | 0.103    | 262.41  | 2.828      | 0.103    | 0.544 | 0.0        | 0.103     | 4.382 | 0.002      |
| 21   | 2453        | 2454      | SN   | 2    | -34.976 | 24.754 | 0.015      | -34.976  | 25.436 | 0.026      | 4.839    | 27.665 | 16.57      | 7.943     | 29.395 | 20.795     | 0.103   | 265.672 | 4.392      | 0.103    | 265.636 | 4.038      | 0.103    | 0.125 | 0.0        | 0.103     | 0.113 | 0.0        |
| 22   | 2453        | 2454      | SN   | 1    | -34.976 | 24.754 | 0.015      | -34.976  | 25.436 | 0.026      | 4.839    | 27.665 | 16.57      | 7.943     | 29.395 | 20.795     | 0.103   | 265.672 | 4.392      | 0.103    | 265.636 | 4.038      | 0.103    | 0.125 | 0.0        | 0.103     | 0.113 | 0.0        |
| 23   | 2453        | 2454      | NS   | 2    | -34.877 | 23.75  | 0.023      | -34.923  | 23.048 | 0.034      | -7.359   | 28.301 | 5.173      | -17.071   | 28.434 | 9.395      | 0.103   | 259.624 | 2.898      | 0.103    | 262.41  | 2.828      | 0.103    | 0.544 | 0.0        | 0.103     | 4.382 | 0.002      |
| 24   | 2454        | 2455      | NS   | 1    | -34.971 | 26.986 | 0.81       | -34.581  | 26.383 | 1.177      | -4.59    | 28.935 | 8.833      | -6.092    | 30.236 | 13.179     | 0.103   | 265.341 | 2.95       | 0.103    | 242.563 | 2.741      | 0.103    | 0.329 | 0.0        | 0.103     | 0.428 | 0.0        |
| 25   | 2454        | 2455      | SN   | 1    | -34.953 | 25.06  | 0.017      | -34.079  | 25.402 | 0.014      | 5.424    | 31.537 | 11.851     | 6.068     | 31.55  | 11.583     | 0.103   | 264.219 | 3.639      | 0.103    | 216.079 | 3.407      | 0.103    | 0.122 | 0.0        | 0.103     | 0.119 | 0.0        |
| 26   | 2455        | 2456      | SN   | 1    | -34.045 | 26.508 | 0.485      | -34.942  | 27.582 | 0.529      | 4.378    | 36.383 | 10.78      | 5.105     | 34.522 | 9.808      | 0.103   | 214.414 | 3.942      | 0.103    | 263.588 | 2.977      | 0.102    | 0.128 | 0.0        | 0.102     | 0.124 | 0.0        |
| 27   | 2455        | 2456      | NS   | 1    | -34.622 | 26.352 | 1.005      | -34.925  | 27.962 | 1.405      | 4.716    | 28.819 | 11.629     | 6.917     | 29.915 | 17.972     | 0.103   | 244.809 | 1.554      | 0.103    | 262.564 | 1.693      | 0.103    | 0.126 | 0.0        | 0.103     | 0.116 | 0.0        |
| 28   | 2456        | 2457      | SN   | 1    | -34.315 | 27.534 | 0.569      | -34.857  | 28.228 | 0.668      | -11.195  | 28.621 | 13.25      | -7.974    | 29.184 | 12.363     | 0.103   | 228.142 | 2.591      | 0.103    | 258.415 | 2.551      | 0.103    | 1.194 | 0.002      | 0.103     | 0.613 | 0.0        |
| 29   | 2456        | 2457      | NS   | 1    | -33.887 | 26.084 | 0.284      | -34.584  | 26.667 | 0.329      | -9.481   | 29.18  | 14.087     | -10.163   | 29.944 | 25.226     | 0.103   | 206.728 | 1.441      | 0.103    | 242.752 | 1.263      | 0.103    | 0.832 | 0.0        | 0.103     | 0.959 | 0.0        |
| 30   | 2457        | 2458      | SN   | 1    | -34.974 | 28.634 | 0.782      | -34.868  | 29.112 | 0.969      | 0.5      | 28.408 | 14.794     | 2.078     | 29.632 | 13.71      | 0.103   | 265.584 | 7.63       | 0.103    | 259.115 | 7.503      | 0.103    | 0.168 | 0.0        | 0.103     | 0.147 | 0.0        |
| 31   | 2457        | 2458      | NS   | 1    | -34.86  | 25.792 | 0.299      | -34.498  | 26.358 | 0.32       | -1.686   | 29.007 | 18.364     | -3.34     | 29.703 | 31.912     | 0.103   | 258.611 | 4.109      | 0.103    | 237.991 | 4.583      | 0.103    | 0.214 | 0.0        | 0.103     | 0.27  | 0.0        |
| 32   | 2458        | 2459      | SN   | 1    | -34.789 | 26.111 | 0.159      | -34.957  | 28.069 | 0.417      | -10.201  | 31.107 | 15.909     | -4.276    | 30.533 | 15.28      | 0.103   | 254.477 | 5.839      | 0.103    | 264.502 | 4.39       | 0.103    | 0.967 | 0.0        | 0.103     | 0.313 | 0.0        |
| 33   | 2458        | 2459      | NS   | 1    | -34.606 | 24.766 | 0.195      | -34.977  | 25.586 | 0.262      | 5.096    | 28.524 | 15.26      | 5.724     | 32.268 | 24.1       | 0.103   | 243.967 | 4.454      | 0.103    | 265.757 | 4.344      | 0.103    | 0.124 | 0.0        | 0.102     | 0.121 | 0.0        |

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

- Normal
- Deviations
- Alarming
- High Errors

|    |      |      |    |   |         |        |       |         |        |       |         |        |        |         |        |        |       |         |        |       |         |       |       |        |       |       |         |       |
|----|------|------|----|---|---------|--------|-------|---------|--------|-------|---------|--------|--------|---------|--------|--------|-------|---------|--------|-------|---------|-------|-------|--------|-------|-------|---------|-------|
| 34 | 2459 | 2460 | NS | 1 | -34.889 | 24.738 | 0.166 | -34.982 | 24.188 | 0.351 | 9.063   | 28.931 | 23.947 | 9.559   | 29.005 | 33.358 | 0.103 | 260.408 | 3.259  | 0.103 | 265.975 | 3.321 | 0.103 | 0.111  | 0.0   | 0.103 | 0.11    | 0.0   |
| 35 | 2459 | 2460 | SN | 1 | -34.824 | 27.676 | 0.215 | -33.531 | 28.115 | 0.798 | -24.634 | 29.062 | 12.916 | -33.279 | 29.792 | 11.108 | 0.103 | 256.521 | 1.374  | 0.103 | 190.487 | 0.728 | 0.103 | 24.631 | 0.078 | 0.103 | 179.715 | 0.072 |
| 36 | 2460 | 2461 | SN | 2 | -33.905 | 26.765 | 0.137 | -34.979 | 28.16  | 0.747 | -8.847  | 28.501 | 20.65  | -8.702  | 29.495 | 21.223 | 0.103 | 207.65  | 2.926  | 0.103 | 265.815 | 2.826 | 0.103 | 0.73   | 0.0   | 0.103 | 0.709   | 0.0   |
| 37 | 2460 | 2461 | NS | 1 | -34.598 | 26.787 | 0.48  | -34.796 | 26.949 | 0.496 | 11.677  | 28.702 | 26.958 | 13.306  | 28.993 | 34.481 | 0.103 | 243.562 | 4.344  | 0.103 | 254.848 | 4.062 | 0.103 | 0.107  | 0.0   | 0.103 | 0.106   | 0.0   |
| 38 | 2461 | 2462 | NS | 1 | -34.967 | 27.695 | 0.469 | -34.974 | 27.93  | 0.402 | 7.13    | 28.378 | 29.633 | 6.929   | 28.996 | 37.544 | 0.103 | 265.031 | 2.656  | 0.103 | 265.552 | 2.466 | 0.103 | 0.116  | 0.0   | 0.103 | 0.116   | 0.0   |
| 39 | 2461 | 2462 | SN | 1 | -34.957 | 25.53  | 0.083 | -34.659 | 24.813 | 0.448 | 7.302   | 29.246 | 39.645 | 8.634   | 31.189 | 50.656 | 0.103 | 264.547 | 3.922  | 0.103 | 246.958 | 3.712 | 0.103 | 0.115  | 0.0   | 0.103 | 0.112   | 0.0   |
| 40 | 2462 | 2463 | NS | 1 | -34.942 | 27.074 | 0.556 | -34.617 | 28.137 | 0.502 | 7.26    | 28.792 | 15.349 | 6.447   | 29.48  | 23.317 | 0.103 | 263.567 | 3.786  | 0.103 | 244.536 | 3.424 | 0.103 | 0.115  | 0.0   | 0.103 | 0.118   | 0.0   |
| 41 | 2462 | 2463 | SN | 1 | -34.795 | 23.512 | 0.072 | -34.764 | 24.465 | 0.386 | 6.948   | 28.205 | 15.794 | 9.929   | 29.417 | 16.535 | 0.103 | 254.84  | 2.37   | 0.103 | 267.11  | 2.092 | 0.103 | 0.116  | 0.0   | 0.103 | 0.109   | 0.0   |
| 42 | 2463 | 2464 | SN | 1 | -34.979 | 26.117 | 1.362 | -34.889 | 26.548 | 1.955 | -8.548  | 28.785 | 13.315 | -2.495  | 29.61  | 16.953 | 0.103 | 265.826 | 2.506  | 0.103 | 260.399 | 2.204 | 0.103 | 0.688  | 0.0   | 0.103 | 0.239   | 0.0   |
| 43 | 2463 | 2464 | NS | 1 | -34.428 | 28.502 | 0.434 | -34.801 | 30.017 | 0.49  | 8.291   | 32.812 | 13.212 | 7.525   | 32.429 | 22.169 | 0.103 | 234.182 | 4.585  | 0.103 | 255.152 | 4.636 | 0.102 | 0.113  | 0.0   | 0.102 | 0.114   | 0.0   |
| 44 | 2464 | 2465 | SN | 1 | -34.98  | 25.936 | 1.288 | -34.931 | 26.66  | 1.596 | 5.274   | 31.734 | 9.437  | 6.205   | 33.901 | 6.718  | 0.103 | 265.95  | 4.472  | 0.103 | 262.941 | 3.62  | 0.102 | 0.123  | 0.0   | 0.102 | 0.119   | 0.0   |
| 45 | 2464 | 2465 | NS | 1 | -34.984 | 26.856 | 0.191 | -34.776 | 28.273 | 0.223 | -5.396  | 30.504 | 6.057  | -2.656  | 33.81  | 13.268 | 0.103 | 266.094 | 5.116  | 0.103 | 253.683 | 4.528 | 0.103 | 0.378  | 0.0   | 0.102 | 0.244   | 0.0   |
| 46 | 2465 | 2466 | SN | 1 | -34.943 | 25.561 | 0.135 | -34.708 | 26.197 | 0.145 | 7.296   | 27.483 | 15.17  | 7.805   | 27.964 | 10.894 | 0.103 | 263.644 | 5.113  | 0.103 | 249.772 | 4.652 | 0.103 | 0.115  | 0.0   | 0.103 | 0.114   | 0.0   |
| 47 | 2465 | 2466 | NS | 1 | -34.278 | 27.642 | 0.072 | -34.963 | 27.753 | 0.078 | -2.726  | 28.546 | 8.711  | -12.314 | 28.887 | 14.41  | 0.103 | 226.196 | 9.558  | 0.103 | 264.924 | 9.844 | 0.103 | 0.247  | 0.0   | 0.103 | 1.52    | 0.003 |
| 48 | 2466 | 2467 | NS | 2 | -34.926 | 27.755 | 0.14  | -34.993 | 27.685 | 0.172 | -4.811  | 36.383 | 6.157  | -8.647  | 29.047 | 10.701 | 0.103 | 262.657 | 3.096  | 0.103 | 266.73  | 3.714 | 0.102 | 0.342  | 0.0   | 0.103 | 0.701   | 0.0   |
| 49 | 2466 | 2467 | SN | 1 | -34.769 | 25.445 | 0.117 | -34.937 | 27.096 | 0.128 | 6.43    | 27.238 | 14.133 | 7.117   | 27.702 | 12.551 | 0.103 | 253.292 | 3.185  | 0.103 | 263.273 | 2.503 | 0.103 | 0.118  | 0.0   | 0.103 | 0.116   | 0.0   |
| 50 | 2467 | 2468 | SN | 1 | -34.886 | 25.998 | 0.132 | -34.851 | 26.21  | 0.148 | 6.423   | 28.038 | 17.714 | 7.825   | 28.535 | 23.5   | 0.103 | 260.227 | 5.38   | 0.103 | 258.082 | 5.049 | 0.103 | 0.118  | 0.0   | 0.103 | 0.114   | 0.0   |
| 51 | 2467 | 2468 | NS | 1 | -34.512 | 20.625 | 0.0   | -33.217 | 21.575 | 0.0   | -5.054  | 27.34  | 4.162  | -6.287  | 28.58  | 8.772  | 0.103 | 248.505 | 1.754  | 0.103 | 177.175 | 1.706 | 0.103 | 0.356  | 0.0   | 0.103 | 0.444   | 0.0   |
| 52 | 2469 | 2470 | SN | 1 | -34.799 | 26.685 | 0.329 | -32.38  | 26.726 | 0.352 | 6.168   | 34.034 | 10.123 | 9.36    | 29.803 | 9.065  | 0.103 | 255.034 | 2.157  | 0.103 | 146.13  | 1.308 | 0.102 | 0.119  | 0.0   | 0.103 | 0.11    | 0.0   |
| 53 | 2470 | 2471 | NS | 1 | -33.017 | 26.273 | 0.35  | -34.092 | 26.729 | 0.405 | -5.634  | 30.23  | 13.084 | 2.342   | 29.816 | 19.974 | 0.103 | 169.258 | 0.588  | 0.103 | 216.79  | 0.631 | 0.103 | 0.394  | 0.0   | 0.103 | 0.144   | 0.0   |
| 54 | 2470 | 2471 | SN | 1 | -34.919 | 27.314 | 0.679 | -33.938 | 28.081 | 0.784 | -5.259  | 31.463 | 12.256 | -1.872  | 30.485 | 11.912 | 0.103 | 262.176 | 7.924  | 0.103 | 209.193 | 6.425 | 0.103 | 0.369  | 0.0   | 0.103 | 0.219   | 0.0   |
| 55 | 2471 | 2472 | NS | 1 | -34.167 | 25.985 | 0.256 | -34.745 | 26.476 | 0.284 | 6.218   | 28.991 | 23.099 | 7.302   | 29.944 | 35.986 | 0.103 | 220.477 | 3.299  | 0.103 | 251.913 | 3.116 | 0.103 | 0.119  | 0.0   | 0.103 | 0.115   | 0.0   |
| 56 | 2471 | 2472 | SN | 1 | -34.756 | 28.711 | 0.688 | -34.923 | 30.154 | 0.822 | -17.417 | 28.615 | 15.931 | -0.54   | 29.912 | 14.772 | 0.103 | 252.549 | 5.021  | 0.103 | 262.459 | 4.281 | 0.103 | 4.74   | 0.008 | 0.103 | 0.187   | 0.0   |
| 57 | 2472 | 2473 | NS | 1 | -34.75  | 24.359 | 0.114 | -33.181 | 24.242 | 0.074 | -7.67   | 30.25  | 13.344 | -6.5    | 31.143 | 23.173 | 0.103 | 252.171 | 0.729  | 0.103 | 175.786 | 1.006 | 0.103 | 0.577  | 0.0   | 0.103 | 0.462   | 0.0   |
| 58 | 2472 | 2473 | SN | 1 | -34.885 | 28.938 | 0.391 | -34.9   | 29.542 | 0.57  | -6.813  | 29.01  | 14.763 | -6.789  | 29.525 | 13.671 | 0.103 | 260.08  | 10.235 | 0.103 | 261.02  | 8.914 | 0.103 | 0.49   | 0.0   | 0.103 | 0.487   | 0.0   |
| 59 | 2473 | 2474 | NS | 1 | -34.933 | 25.28  | 0.362 | -34.468 | 24.83  | 0.51  | 5.662   | 28.716 | 18.622 | 5.398   | 29.384 | 26.367 | 0.103 | 263.021 | 2.822  | 0.103 | 236.379 | 2.979 | 0.103 | 0.121  | 0.0   | 0.103 | 0.122   | 0.0   |
| 60 | 2473 | 2474 | SN | 1 | -34.162 | 27.664 | 0.16  | -34.467 | 27.056 | 0.572 | -2.36   | 28.824 | 13.096 | -1.782  | 29.99  | 10.991 | 0.103 | 220.262 | 4.16   | 0.103 | 236.289 | 3.429 | 0.103 | 0.234  | 0.0   | 0.103 | 0.217   | 0.0   |
| 61 | 2474 | 2475 | SN | 1 | -34.377 | 27.299 | 0.135 | -34.377 | 27.73  | 0.938 | -5.535  | 28.898 | 14.099 | -6.65   | 29.579 | 14.098 | 0.103 | 231.428 | 3.032  | 0.103 | 231.413 | 2.862 | 0.103 | 0.387  | 0.0   | 0.103 | 0.475   | 0.0   |
| 62 | 2474 | 2475 | NS | 1 | -34.635 | 24.013 | 0.129 | -34.609 | 24.291 | 0.175 | 12.002  | 28.117 | 20.587 | 12.444  | 28.846 | 37.649 | 0.103 | 245.665 | 1.943  | 0.103 | 244.17  | 1.926 | 0.103 | 0.107  | 0.0   | 0.103 | 0.106   | 0.0   |
| 63 | 2475 | 2476 | NS | 1 | -34.767 | 26.808 | 0.367 | -34.98  | 26.811 | 0.314 | 8.413   | 28.389 | 26.78  | 9.245   | 28.909 | 34.462 | 0.103 | 253.183 | 2.827  | 0.103 | 265.93  | 2.836 | 0.103 | 0.112  | 0.0   | 0.103 | 0.11    | 0.0   |
| 64 | 2475 | 2476 | SN | 2 | -34.0   | 26.805 | 0.182 | -34.721 | 27.347 | 0.674 | -5.767  | 29.034 | 32.32  | -5.725  | 29.924 | 36.605 | 0.103 | 212.206 | 2.848  | 0.103 | 250.518 | 2.496 | 0.103 | 0.404  | 0.0   | 0.103 | 0.401   | 0.0   |
| 65 | 2476 | 2477 | NS | 1 | -34.727 | 26.613 | 0.343 | -34.485 | 27.934 | 0.672 | 10.848  | 27.475 | 3.869  | 7.757   | 27.832 | 4.136  | 0.103 | 250.841 | 2.867  | 0.103 | 237.247 | 2.701 | 0.103 | 0.108  | 0.0   | 0.103 | 0.114   | 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     | 2448        | 2449      | SN   | 2    | 57.559          | 58.429 | 0.0       | 0.003         | 11.411  | 0.218     | 1211.84  | 1290.464 | 14.161    | -93.153  | -92.062 | 0.0       |
| 2     | 2448        | 2449      | NS   | 1    | 57.572          | 58.405 | 0.0       | 0.003         | 1.985   | 0.161     | 1215.376 | 1290.608 | 15.393    | -93.22   | -92.086 | 0.0       |
| 3     | 2448        | 2449      | SN   | 1    | 57.559          | 58.429 | 0.0       | 0.003         | 11.411  | 0.218     | 1211.84  | 1290.464 | 14.161    | -93.153  | -92.062 | 0.0       |
| 4     | 2449        | 2450      | NS   | 2    | 57.606          | 58.398 | 0.0       | 0.003         | 1.98    | 0.156     | 1215.896 | 1290.536 | 15.289    | -93.11   | -92.075 | 0.0       |
| 5     | 2449        | 2450      | NS   | 1    | 57.606          | 58.398 | 0.0       | 0.003         | 1.98    | 0.156     | 1215.896 | 1290.536 | 15.289    | -93.11   | -92.075 | 0.0       |
| 6     | 2449        | 2450      | SN   | 1    | 57.575          | 58.381 | 0.0       | 0.003         | 1.985   | 0.207     | 1212.056 | 1290.368 | 13.65     | -93.134  | -92.058 | 0.0       |
| 7     | 2449        | 2450      | SN   | 2    | 57.575          | 58.381 | 0.0       | 0.003         | 1.985   | 0.207     | 1212.056 | 1290.368 | 13.65     | -93.134  | -92.058 | 0.0       |
| 8     | 2450        | 2451      | NS   | 1    | 57.608          | 58.399 | 0.0       | 0.008         | 1.98    | 0.15      | 1216.176 | 1290.824 | 14.653    | -93.011  | -92.007 | 0.0       |
| 9     | 2450        | 2451      | SN   | 1    | 57.542          | 58.382 | 0.0       | 0.003         | 1.985   | 0.201     | 1211.304 | 1290.592 | 12.881    | -93.336  | -92.04  | 0.0       |
| 10    | 2450        | 2451      | NS   | 2    | 57.608          | 58.399 | 0.0       | 0.008         | 1.98    | 0.15      | 1216.176 | 1290.824 | 14.653    | -93.011  | -92.007 | 0.0       |
| 11    | 2450        | 2451      | SN   | 2    | 57.542          | 58.382 | 0.0       | 0.003         | 1.985   | 0.201     | 1211.304 | 1290.592 | 12.881    | -93.336  | -92.04  | 0.0       |
| 12    | 2451        | 2452      | SN   | 1    | 57.553          | 58.379 | 0.0       | 0.003         | 1.985   | 0.198     | 1211.136 | 1290.48  | 12.773    | -93.174  | -92.058 | 0.0       |
| 13    | 2451        | 2452      | NS   | 2    | 57.607          | 58.416 | 0.0       | 0.003         | 2.713   | 0.181     | 1215.72  | 1290.8   | 14.868    | -93.335  | -92.055 | 0.0       |
| 14    | 2451        | 2452      | NS   | 1    | 57.607          | 58.416 | 0.0       | 0.003         | 2.713   | 0.181     | 1215.72  | 1290.8   | 14.868    | -93.335  | -92.055 | 0.0       |
| 15    | 2451        | 2452      | SN   | 2    | 57.553          | 58.379 | 0.0       | 0.003         | 1.985   | 0.198     | 1211.136 | 1290.48  | 12.773    | -93.174  | -92.058 | 0.0       |
| 16    | 2452        | 2453      | SN   | 4    | 57.553          | 58.393 | 0.0       | 0.003         | 1.985   | 0.2       | 1210.928 | 1290.336 | 12.745    | -93.202  | -92.055 | 0.0       |
| 17    | 2452        | 2453      | NS   | 1    | 57.584          | 58.422 | 0.0       | 0.003         | 1.985   | 0.152     | 1216.52  | 1290.64  | 15.453    | -93.167  | -92.075 | 0.0       |
| 18    | 2452        | 2453      | SN   | 2    | 57.553          | 58.393 | 0.0       | 0.003         | 1.985   | 0.2       | 1210.928 | 1290.336 | 12.745    | -93.202  | -92.055 | 0.0       |
| 19    | 2452        | 2453      | NS   | 3    | 57.584          | 58.422 | 0.0       | 0.003         | 1.985   | 0.152     | 1216.52  | 1290.64  | 15.453    | -93.167  | -92.075 | 0.0       |
| 20    | 2453        | 2454      | NS   | 1    | 57.598          | 58.399 | 0.0       | 0.003         | 1.985   | 0.157     | 1216.568 | 1290.544 | 15.532    | -93.278  | -92.091 | 0.0       |
| 21    | 2453        | 2454      | SN   | 2    | 57.554          | 58.4   | 0.0       | 0.003         | 1.985   | 0.197     | 1211.016 | 1290.248 | 12.808    | -93.213  | -92.078 | 0.0       |
| 22    | 2453        | 2454      | SN   | 1    | 57.554          | 58.4   | 0.0       | 0.003         | 1.985   | 0.197     | 1211.016 | 1290.248 | 12.808    | -93.213  | -92.078 | 0.0       |
| 23    | 2453        | 2454      | NS   | 2    | 57.598          | 58.399 | 0.0       | 0.003         | 1.985   | 0.157     | 1216.568 | 1290.544 | 15.532    | -93.278  | -92.091 | 0.0       |
| 24    | 2454        | 2455      | NS   | 1    | 57.593          | 58.419 | 0.0       | 0.003         | 1.985   | 0.157     | 1216.576 | 1290.424 | 13.789    | -93.165  | -92.065 | 0.0       |
| 25    | 2454        | 2455      | SN   | 1    | 57.577          | 58.376 | 0.0       | 0.003         | 1.985   | 0.202     | 1211.296 | 1290.128 | 13.041    | -93.179  | -92.055 | 0.0       |
| 26    | 2455        | 2456      | SN   | 1    | 57.576          | 58.378 | 0.0       | 0.003         | 1.985   | 0.209     | 1212.032 | 1290.224 | 13.632    | -93.199  | -92.055 | 0.0       |
| 27    | 2455        | 2456      | NS   | 1    | 57.574          | 58.402 | 0.0       | 0.003         | 1.985   | 0.154     | 1216.016 | 1290.48  | 14.437    | -93.186  | -92.093 | 0.0       |
| 28    | 2456        | 2457      | SN   | 1    | 57.575          | 58.392 | 0.0       | 0.003         | 1.985   | 0.202     | 1212.144 | 1290.296 | 12.83     | -93.222  | -92.008 | 0.0       |
| 29    | 2456        | 2457      | NS   | 1    | 57.557          | 58.417 | 0.0       | 0.003         | 181.526 | 0.157     | 1216.36  | 1290.568 | 15.081    | -93.203  | -92.099 | 0.0       |
| 30    | 2457        | 2458      | SN   | 1    | 57.576          | 58.377 | 0.0       | 0.003         | 1.985   | 0.2       | 1211.824 | 1290.2   | 12.857    | -93.163  | -91.999 | 0.0       |
| 31    | 2457        | 2458      | NS   | 1    | 57.61           | 58.414 | 0.0       | 0.003         | 1.985   | 0.161     | 1216.248 | 1290.464 | 15.739    | -93.39   | -92.088 | 0.0       |
| 32    | 2458        | 2459      | SN   | 1    | 57.574          | 58.381 | 0.0       | 0.003         | 1.985   | 0.206     | 1211.568 | 1290.04  | 13.248    | -93.141  | -92.041 | 0.0       |
| 33    | 2458        | 2459      | NS   | 1    | 57.61           | 58.424 | 0.0       | 0.003         | 29.351  | 0.197     | 1216.128 | 1290.296 | 15.333    | -93.168  | -92.063 | 0.0       |
| 34    | 2459        | 2460      | NS   | 1    | 57.577          | 58.421 | 0.0       | 0.003         | 1.985   | 0.152     | 1215.928 | 1290.36  | 15.073    | -93.15   | -92.089 | 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 |

|    |      |      |    |   |        |        |     |       |         |       |          |          |        |         |         |     |
|----|------|------|----|---|--------|--------|-----|-------|---------|-------|----------|----------|--------|---------|---------|-----|
| 35 | 2459 | 2460 | SN | 1 | 57.573 | 58.399 | 0.0 | 0.003 | 2.272   | 0.217 | 1211.6   | 1290.168 | 13.412 | -93.137 | -92.046 | 0.0 |
| 36 | 2460 | 2461 | SN | 2 | 57.557 | 58.397 | 0.0 | 0.003 | 1.985   | 0.202 | 1211.776 | 1290.176 | 13.312 | -93.166 | -92.05  | 0.0 |
| 37 | 2460 | 2461 | NS | 1 | 57.58  | 58.403 | 0.0 | 0.003 | 1.985   | 0.156 | 1215.792 | 1290.36  | 15.255 | -93.314 | -92.1   | 0.0 |
| 38 | 2461 | 2462 | NS | 1 | 57.592 | 58.398 | 0.0 | 0.003 | 1.985   | 0.157 | 1215.712 | 1290.496 | 15.019 | -93.379 | -92.082 | 0.0 |
| 39 | 2461 | 2462 | SN | 1 | 57.568 | 58.394 | 0.0 | 0.003 | 1.98    | 0.199 | 1211.736 | 1290.224 | 12.989 | -93.139 | -92.056 | 0.0 |
| 40 | 2462 | 2463 | NS | 1 | 57.581 | 58.398 | 0.0 | 0.003 | 30.233  | 0.199 | 1216.344 | 1290.504 | 15.411 | -93.317 | -92.084 | 0.0 |
| 41 | 2462 | 2463 | SN | 1 | 57.574 | 58.395 | 0.0 | 0.003 | 1.98    | 0.206 | 1211.984 | 1290.248 | 13.727 | -93.333 | -92.063 | 0.0 |
| 42 | 2463 | 2464 | SN | 1 | 57.573 | 58.375 | 0.0 | 0.003 | 1.98    | 0.215 | 1211.24  | 1289.992 | 13.456 | -93.176 | -92.04  | 0.0 |
| 43 | 2463 | 2464 | NS | 1 | 57.611 | 58.398 | 0.0 | 0.003 | 1.98    | 0.162 | 1216.68  | 1290.312 | 15.861 | -93.148 | -92.067 | 0.0 |
| 44 | 2464 | 2465 | SN | 1 | 57.571 | 58.382 | 0.0 | 0.003 | 332.841 | 0.229 | 1211.664 | 1290.176 | 12.726 | -93.14  | -92.029 | 0.0 |
| 45 | 2464 | 2465 | NS | 1 | 57.613 | 58.426 | 0.0 | 0.003 | 1.985   | 0.155 | 1216.88  | 1290.56  | 14.92  | -93.162 | -92.039 | 0.0 |
| 46 | 2465 | 2466 | SN | 1 | 57.544 | 58.389 | 0.0 | 0.003 | 1.98    | 0.197 | 1210.648 | 1290.312 | 12.419 | -93.122 | -92.058 | 0.0 |
| 47 | 2465 | 2466 | NS | 1 | 57.583 | 58.445 | 0.0 | 0.003 | 2.818   | 0.184 | 1217.016 | 1290.712 | 15.956 | -93.281 | -92.064 | 0.0 |
| 48 | 2466 | 2467 | NS | 2 | 57.613 | 58.426 | 0.0 | 0.003 | 1.98    | 0.156 | 1217.008 | 1290.616 | 15.5   | -93.161 | -92.056 | 0.0 |
| 49 | 2466 | 2467 | SN | 1 | 57.534 | 58.392 | 0.0 | 0.003 | 1.98    | 0.197 | 1210.504 | 1290.192 | 12.34  | -93.142 | -92.057 | 0.0 |
| 50 | 2467 | 2468 | SN | 1 | 57.557 | 58.392 | 0.0 | 0.003 | 1.985   | 0.202 | 1210.632 | 1290.104 | 12.408 | -93.17  | -92.059 | 0.0 |
| 51 | 2467 | 2468 | NS | 1 | 57.613 | 58.426 | 0.0 | 0.003 | 29.174  | 0.198 | 1217.256 | 1290.504 | 15.671 | -93.149 | -92.085 | 0.0 |
| 52 | 2469 | 2470 | SN | 1 | 57.573 | 58.404 | 0.0 | 0.003 | 1.985   | 0.204 | 1211.4   | 1289.808 | 12.069 | -93.455 | -92.049 | 0.0 |
| 53 | 2470 | 2471 | NS | 1 | 57.583 | 58.42  | 0.0 | 0.003 | 1.985   | 0.155 | 1216.648 | 1290.464 | 14.463 | -93.163 | -92.099 | 0.0 |
| 54 | 2470 | 2471 | SN | 1 | 57.575 | 58.379 | 0.0 | 0.003 | 1.985   | 0.201 | 1211.168 | 1289.968 | 12.016 | -93.34  | -92.019 | 0.0 |
| 55 | 2471 | 2472 | NS | 1 | 57.614 | 58.399 | 0.0 | 0.003 | 1.985   | 0.16  | 1216.792 | 1290.456 | 16.158 | -93.224 | -92.1   | 0.0 |
| 56 | 2471 | 2472 | SN | 1 | 57.574 | 58.403 | 0.0 | 0.003 | 1.985   | 0.198 | 1211.232 | 1290.104 | 12.596 | -93.16  | -92.002 | 0.0 |
| 57 | 2472 | 2473 | NS | 1 | 57.615 | 58.421 | 0.0 | 0.003 | 1.985   | 0.156 | 1216.768 | 1290.28  | 15.651 | -93.55  | -92.084 | 0.0 |
| 58 | 2472 | 2473 | SN | 1 | 57.543 | 58.377 | 0.0 | 0.003 | 1.985   | 0.2   | 1210.68  | 1289.928 | 12.61  | -93.1   | -92.026 | 0.0 |
| 59 | 2473 | 2474 | NS | 1 | 57.603 | 58.42  | 0.0 | 0.003 | 1.985   | 0.153 | 1216.544 | 1290.296 | 15.54  | -93.2   | -92.105 | 0.0 |
| 60 | 2473 | 2474 | SN | 1 | 57.571 | 58.398 | 0.0 | 0.003 | 1.985   | 0.206 | 1211.376 | 1289.976 | 13.011 | -93.094 | -92.029 | 0.0 |
| 61 | 2474 | 2475 | SN | 1 | 57.549 | 58.396 | 0.0 | 0.003 | 1.98    | 0.205 | 1211.04  | 1290.04  | 12.779 | -93.342 | -92.037 | 0.0 |
| 62 | 2474 | 2475 | NS | 1 | 57.58  | 58.409 | 0.0 | 0.003 | 1.985   | 0.148 | 1216.504 | 1290.336 | 12.907 | -93.213 | -92.082 | 0.0 |
| 63 | 2475 | 2476 | NS | 1 | 57.586 | 58.418 | 0.0 | 0.003 | 30.123  | 0.196 | 1216.816 | 1290.416 | 15.267 | -93.309 | -92.098 | 0.0 |
| 64 | 2475 | 2476 | SN | 2 | 57.569 | 58.374 | 0.0 | 0.003 | 1.98    | 0.201 | 1210.64  | 1290.008 | 12.881 | -93.448 | -92.05  | 0.0 |
| 65 | 2476 | 2477 | NS | 1 | 57.612 | 58.424 | 0.0 | 0.003 | 30.228  | 0.182 | 1217.064 | 1288.216 | 4.542  | -93.577 | -92.116 | 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    | 2448        | 2449      | SN   | 2    | -34.226 | 20.357 | 0.0        | -34.829  | 20.121 | 0.0        | -2.161   | 23.131 | 0.032      | -2.857    | 22.928 | 0.05       | 0.08    | 176.89  | 2.16       | 0.08     | 203.251 | 2.021      | 0.08     | 0.179  | 0.0        | 0.08      | 0.197  | 0.0        |
| 2    | 2448        | 2449      | NS   | 1    | -34.977 | 22.135 | 0.001      | -34.94   | 22.207 | 0.001      | 1.372    | 23.703 | 0.177      | 0.273     | 24.138 | 0.308      | 0.08    | 210.301 | 4.352      | 0.08     | 208.508 | 4.202      | 0.08     | 0.121  | 0.0        | 0.08      | 0.134  | 0.0        |
| 3    | 2448        | 2449      | SN   | 1    | -34.226 | 20.357 | 0.0        | -34.829  | 20.121 | 0.0        | -2.161   | 23.131 | 0.032      | -2.857    | 22.928 | 0.05       | 0.08    | 176.89  | 2.16       | 0.08     | 203.251 | 2.021      | 0.08     | 0.179  | 0.0        | 0.08      | 0.197  | 0.0        |
| 4    | 2449        | 2450      | NS   | 2    | -34.747 | 21.711 | 0.0        | -33.297  | 23.156 | 0.007      | -1.612   | 22.384 | 0.007      | -1.434    | 23.895 | 0.043      | 0.08    | 199.453 | 2.899      | 0.08     | 142.846 | 3.04       | 0.08     | 0.166  | 0.0        | 0.08      | 0.163  | 0.0        |
| 5    | 2449        | 2450      | NS   | 1    | -34.747 | 21.711 | 0.0        | -33.297  | 23.156 | 0.007      | -1.612   | 22.384 | 0.007      | -1.434    | 23.895 | 0.043      | 0.08    | 199.453 | 2.899      | 0.08     | 142.846 | 3.04       | 0.08     | 0.166  | 0.0        | 0.08      | 0.163  | 0.0        |
| 6    | 2449        | 2450      | SN   | 1    | -34.75  | 19.318 | 0.0        | -34.813  | 20.868 | 0.0        | -18.369  | 25.119 | 0.002      | -9.88     | 23.338 | 0.068      | 0.08    | 199.582 | 4.755      | 0.08     | 202.539 | 3.936      | 0.08     | 4.651  | 0.005      | 0.08      | 0.713  | 0.0        |
| 7    | 2449        | 2450      | SN   | 2    | -34.75  | 19.318 | 0.0        | -34.813  | 20.868 | 0.0        | -18.369  | 25.119 | 0.002      | -9.88     | 23.338 | 0.068      | 0.08    | 199.582 | 4.755      | 0.08     | 202.539 | 3.936      | 0.08     | 4.651  | 0.005      | 0.08      | 0.713  | 0.0        |
| 8    | 2450        | 2451      | NS   | 1    | -34.911 | 20.49  | 0.0        | -34.854  | 20.883 | 0.0        | -20.149  | 21.68  | 0.0        | -28.885   | 22.825 | 0.034      | 0.08    | 211.981 | 5.357      | 0.08     | 204.419 | 5.938      | 0.08     | 6.98   | 0.038      | 0.08      | 51.76  | 0.123      |
| 9    | 2450        | 2451      | SN   | 1    | -34.943 | 20.139 | 0.0        | -34.957  | 20.161 | 0.0        | 1.133    | 21.833 | 0.0        | 2.564     | 22.812 | 0.078      | 0.08    | 208.691 | 4.923      | 0.08     | 209.35  | 4.236      | 0.08     | 0.124  | 0.0        | 0.08      | 0.111  | 0.0        |
| 10   | 2450        | 2451      | NS   | 2    | -34.911 | 20.49  | 0.0        | -34.854  | 20.883 | 0.0        | -20.149  | 21.68  | 0.0        | -28.885   | 22.825 | 0.034      | 0.08    | 211.981 | 5.357      | 0.08     | 204.419 | 5.938      | 0.08     | 6.98   | 0.038      | 0.08      | 51.76  | 0.123      |
| 11   | 2450        | 2451      | SN   | 2    | -34.943 | 20.139 | 0.0        | -34.957  | 20.161 | 0.0        | 1.133    | 21.833 | 0.0        | 2.564     | 22.812 | 0.078      | 0.08    | 208.691 | 4.923      | 0.08     | 209.35  | 4.236      | 0.08     | 0.124  | 0.0        | 0.08      | 0.111  | 0.0        |
| 12   | 2451        | 2452      | SN   | 1    | -34.909 | 19.496 | 0.0        | -34.608  | 20.162 | 0.0        | 1.462    | 21.573 | 0.0        | 1.226     | 20.902 | 0.0        | 0.08    | 206.993 | 3.187      | 0.08     | 193.171 | 3.06       | 0.08     | 0.12   | 0.0        | 0.08      | 0.123  | 0.0        |
| 13   | 2451        | 2452      | NS   | 2    | -34.518 | 20.674 | 0.0        | -34.765  | 21.08  | 0.0        | -9.368   | 21.196 | 0.0        | -8.264    | 22.061 | 0.005      | 0.08    | 189.174 | 3.421      | 0.08     | 206.667 | 4.368      | 0.08     | 0.641  | 0.0        | 0.08      | 0.512  | 0.0        |
| 14   | 2451        | 2452      | NS   | 1    | -34.518 | 20.674 | 0.0        | -34.765  | 21.08  | 0.0        | -9.368   | 21.196 | 0.0        | -8.264    | 22.061 | 0.005      | 0.08    | 189.174 | 3.421      | 0.08     | 206.667 | 4.368      | 0.08     | 0.641  | 0.0        | 0.08      | 0.512  | 0.0        |
| 15   | 2451        | 2452      | SN   | 2    | -34.909 | 19.496 | 0.0        | -34.608  | 20.162 | 0.0        | 1.462    | 21.573 | 0.0        | 1.226     | 20.902 | 0.0        | 0.08    | 206.993 | 3.187      | 0.08     | 193.171 | 3.06       | 0.08     | 0.12   | 0.0        | 0.08      | 0.123  | 0.0        |
| 16   | 2452        | 2453      | SN   | 4    | -34.84  | 19.146 | 0.0        | -34.628  | 19.91  | 0.0        | 0.987    | 22.028 | 0.006      | 1.437     | 22.187 | 0.039      | 0.08    | 203.727 | 5.178      | 0.08     | 194.026 | 4.745      | 0.08     | 0.125  | 0.0        | 0.08      | 0.121  | 0.0        |
| 17   | 2452        | 2453      | NS   | 1    | -34.544 | 15.483 | 0.0        | -34.383  | 16.929 | 0.0        | -16.664  | 22.316 | 0.001      | -13.293   | 22.531 | 0.006      | 0.081   | 190.327 | 2.55       | 0.081    | 183.419 | 2.844      | 0.08     | 3.162  | 0.006      | 0.08      | 1.489  | 0.004      |
| 18   | 2452        | 2453      | SN   | 2    | -34.84  | 19.146 | 0.0        | -34.628  | 19.91  | 0.0        | 0.987    | 22.028 | 0.006      | 1.437     | 22.187 | 0.039      | 0.08    | 203.727 | 5.178      | 0.08     | 194.026 | 4.745      | 0.08     | 0.125  | 0.0        | 0.08      | 0.121  | 0.0        |
| 19   | 2452        | 2453      | NS   | 3    | -34.544 | 15.483 | 0.0        | -34.383  | 16.929 | 0.0        | -16.664  | 22.316 | 0.001      | -13.293   | 22.531 | 0.006      | 0.081   | 190.327 | 2.55       | 0.081    | 183.419 | 2.844      | 0.08     | 3.162  | 0.006      | 0.08      | 1.489  | 0.004      |
| 20   | 2453        | 2454      | NS   | 1    | -34.55  | 17.471 | 0.0        | -34.516  | 17.775 | 0.0        | -23.567  | 21.386 | 0.0        | -16.834   | 22.04  | 0.003      | 0.081   | 190.595 | 2.074      | 0.081    | 193.609 | 2.264      | 0.08     | 15.252 | 0.011      | 0.08      | 3.285  | 0.021      |
| 21   | 2453        | 2454      | SN   | 2    | -34.898 | 19.632 | 0.0        | -34.954  | 19.574 | 0.0        | 0.908    | 21.378 | 0.0        | 2.327     | 22.037 | 0.007      | 0.08    | 206.528 | 3.353      | 0.08     | 209.213 | 3.221      | 0.08     | 0.126  | 0.0        | 0.08      | 0.113  | 0.0        |
| 22   | 2453        | 2454      | SN   | 1    | -34.898 | 19.632 | 0.0        | -34.954  | 19.574 | 0.0        | 0.908    | 21.378 | 0.0        | 2.327     | 22.037 | 0.007      | 0.08    | 206.528 | 3.353      | 0.08     | 209.213 | 3.221      | 0.08     | 0.126  | 0.0        | 0.08      | 0.113  | 0.0        |
| 23   | 2453        | 2454      | NS   | 2    | -34.55  | 17.471 | 0.0        | -34.516  | 17.775 | 0.0        | -23.567  | 21.386 | 0.0        | -16.834   | 22.04  | 0.003      | 0.081   | 190.595 | 2.074      | 0.081    | 193.609 | 2.264      | 0.08     | 15.252 | 0.011      | 0.08      | 3.285  | 0.021      |
| 24   | 2454        | 2455      | NS   | 1    | -34.484 | 19.841 | 0.0        | -34.855  | 20.329 | 0.0        | -26.769  | 21.907 | 0.0        | -14.101   | 22.716 | 0.088      | 0.08    | 187.695 | 2.73       | 0.08     | 204.449 | 2.613      | 0.08     | 31.819 | 0.046      | 0.08      | 1.78   | 0.02       |
| 25   | 2454        | 2455      | SN   | 1    | -34.908 | 20.639 | 0.0        | -34.798  | 20.419 | 0.0        | 0.618    | 22.925 | 0.085      | 2.284     | 23.012 | 0.152      | 0.08    | 206.935 | 3.575      | 0.08     | 201.891 | 3.345      | 0.08     | 0.13   | 0.0        | 0.08      | 0.113  | 0.0        |
| 26   | 2455        | 2456      | SN   | 1    | -34.532 | 20.487 | 0.0        | -34.606  | 21.281 | 0.0        | -1.728   | 23.385 | 0.15       | -0.422    | 23.612 | 0.506      | 0.08    | 189.779 | 3.738      | 0.08     | 193.093 | 3.123      | 0.08     | 0.169  | 0.0        | 0.08      | 0.144  | 0.0        |
| 27   | 2455        | 2456      | NS   | 1    | -34.399 | 19.463 | 0.0        | -33.993  | 20.622 | 0.0        | 2.998    | 23.018 | 0.163      | 1.7       | 23.054 | 0.368      | 0.08    | 184.097 | 1.587      | 0.08     | 167.687 | 1.805      | 0.08     | 0.108  | 0.0        | 0.08      | 0.118  | 0.0        |
| 28   | 2456        | 2457      | SN   | 1    | -34.885 | 21.038 | 0.0        | -34.433  | 21.88  | 0.0        | -28.963  | 22.452 | 0.023      | -27.006   | 24.115 | 0.352      | 0.08    | 205.881 | 3.498      | 0.08     | 185.495 | 3.137      | 0.08     | 52.692 | 0.086      | 0.08      | 33.605 | 0.042      |
| 29   | 2456        | 2457      | NS   | 1    | -33.797 | 19.854 | 0.0        | -33.399  | 20.1   | 0.0        | -7.534   | 23.28  | 0.358      | -3.932    | 23.945 | 0.892      | 0.08    | 160.283 | 1.395      | 0.08     | 146.225 | 1.275      | 0.08     | 0.443  | 0.0        | 0.08      | 0.232  | 0.0        |
| 30   | 2457        | 2458      | SN   | 1    | -34.892 | 22.347 | 0.003      | -34.886  | 23.108 | 0.006      | -11.123  | 22.576 | 0.022      | -19.264   | 23.694 | 0.334      | 0.08    | 206.194 | 6.942      | 0.08     | 205.932 | 6.689      | 0.08     | 0.928  | 0.0        | 0.08      | 5.704  | 0.004      |
| 31   | 2457        | 2458      | NS   | 1    | -34.937 | 19.508 | 0.0        | -34.914  | 20.614 | 0.0        | -3.484   | 23.201 | 0.475      | -4.095    | 23.335 | 1.246      | 0.08    | 208.336 | 3.657      | 0.08     | 207.285 | 3.757      | 0.08     | 0.216  | 0.0        | 0.08      | 0.238  | 0.0        |
| 32   | 2458        | 2459      | SN   | 1    | -34.747 | 21.796 | 0.0        | -34.92   | 22.976 | 0.006      | -22.349  | 22.664 | 0.019      | -13.227   | 23.875 | 0.346      | 0.08    | 199.406 | 5.023      | 0.08     | 207.554 | 4.067      | 0.08     | 11.54  | 0.069      | 0.08      | 1.467  | 0.004      |

| Parameter Specifications | Parameters | SNR   | Kp  | Normal   | Deviations  |
|--------------------------|------------|-------|-----|----------|-------------|
|                          | Min        | -65.0 | 0.0 |          |             |
|                          | Max        | 22.0  | 1.0 | Alarming | High Errors |

|    |      |      |    |   |         |        |       |         |        |       |         |        |       |         |        |       |       |         |       |       |         |       |      |         |       |      |         |       |
|----|------|------|----|---|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|-------|---------|-------|-------|---------|-------|------|---------|-------|------|---------|-------|
| 33 | 2458 | 2459 | NS | 1 | -34.563 | 18.134 | 0.0   | -34.629 | 17.946 | 0.0   | -2.571  | 22.989 | 0.127 | -1.773  | 27.098 | 0.369 | 0.081 | 191.145 | 4.294 | 0.081 | 194.107 | 4.258 | 0.08 | 0.189   | 0.0   | 0.08 | 0.17    | 0.0   |
| 34 | 2459 | 2460 | NS | 1 | -34.733 | 18.47  | 0.0   | -34.905 | 17.927 | 0.0   | 4.357   | 23.125 | 0.268 | 2.168   | 23.569 | 0.288 | 0.081 | 198.805 | 3.437 | 0.081 | 206.819 | 3.523 | 0.08 | 0.1     | 0.0   | 0.08 | 0.114   | 0.0   |
| 35 | 2459 | 2460 | SN | 1 | -34.253 | 20.783 | 0.0   | -34.719 | 21.586 | 0.0   | -21.424 | 22.658 | 0.012 | -32.754 | 24.141 | 0.272 | 0.08  | 178.033 | 1.488 | 0.08  | 198.159 | 1.203 | 0.08 | 9.339   | 0.053 | 0.08 | 126.076 | 0.067 |
| 36 | 2460 | 2461 | SN | 2 | -34.553 | 20.104 | 0.0   | -34.764 | 20.979 | 0.0   | -19.193 | 22.645 | 0.056 | -31.176 | 23.589 | 0.388 | 0.08  | 190.739 | 2.602 | 0.08  | 200.184 | 1.99  | 0.08 | 5.744   | 0.015 | 0.08 | 87.683  | 0.035 |
| 37 | 2460 | 2461 | NS | 1 | -34.713 | 19.893 | 0.0   | -34.668 | 20.442 | 0.0   | 3.415   | 23.122 | 0.325 | 3.356   | 22.918 | 0.273 | 0.08  | 197.895 | 3.777 | 0.08  | 195.816 | 3.833 | 0.08 | 0.105   | 0.0   | 0.08 | 0.105   | 0.0   |
| 38 | 2461 | 2462 | NS | 1 | -34.987 | 21.078 | 0.0   | -34.513 | 21.156 | 0.0   | 1.942   | 22.744 | 0.185 | 2.183   | 23.147 | 0.338 | 0.08  | 210.734 | 2.487 | 0.08  | 188.998 | 2.447 | 0.08 | 0.116   | 0.0   | 0.08 | 0.114   | 0.0   |
| 39 | 2461 | 2462 | SN | 1 | -34.363 | 17.752 | 0.0   | -34.892 | 18.902 | 0.0   | 2.616   | 23.106 | 0.465 | 3.142   | 23.665 | 2.11  | 0.081 | 186.889 | 2.761 | 0.08  | 206.239 | 3.004 | 0.08 | 0.11    | 0.0   | 0.08 | 0.107   | 0.0   |
| 40 | 2462 | 2463 | NS | 1 | -33.735 | 23.49  | 0.009 | -34.555 | 22.539 | 0.009 | 1.996   | 22.967 | 0.102 | 1.14    | 22.995 | 0.356 | 0.08  | 158.015 | 3.026 | 0.08  | 190.849 | 2.953 | 0.08 | 0.115   | 0.0   | 0.08 | 0.124   | 0.0   |
| 41 | 2462 | 2463 | SN | 1 | -34.552 | 18.362 | 0.0   | -34.925 | 18.549 | 0.0   | 2.01    | 23.267 | 0.178 | 4.576   | 23.573 | 0.292 | 0.081 | 190.709 | 2.211 | 0.081 | 207.734 | 1.865 | 0.08 | 0.115   | 0.0   | 0.08 | 0.099   | 0.0   |
| 42 | 2463 | 2464 | SN | 1 | -34.705 | 20.297 | 0.0   | -34.999 | 20.798 | 0.0   | -9.087  | 22.262 | 0.008 | -2.551  | 23.112 | 0.089 | 0.08  | 197.546 | 3.964 | 0.08  | 211.387 | 3.391 | 0.08 | 0.605   | 0.0   | 0.08 | 0.189   | 0.0   |
| 43 | 2463 | 2464 | NS | 1 | -34.541 | 22.28  | 0.002 | -34.965 | 22.775 | 0.003 | 1.677   | 22.327 | 0.007 | 1.946   | 24.296 | 0.059 | 0.08  | 190.183 | 3.728 | 0.08  | 209.688 | 3.944 | 0.08 | 0.118   | 0.0   | 0.08 | 0.116   | 0.0   |
| 44 | 2464 | 2465 | SN | 1 | -34.688 | 19.601 | 0.0   | -34.902 | 21.041 | 0.0   | 2.022   | 21.89  | 0.0   | 1.083   | 22.939 | 0.104 | 0.08  | 196.778 | 3.852 | 0.08  | 206.686 | 3.479 | 0.08 | 0.115   | 0.0   | 0.08 | 0.124   | 0.0   |
| 45 | 2464 | 2465 | NS | 1 | -34.3   | 20.588 | 0.0   | -34.741 | 21.234 | 0.0   | -10.493 | 22.198 | 0.002 | -12.47  | 22.885 | 0.025 | 0.08  | 179.928 | 3.904 | 0.08  | 199.165 | 4.068 | 0.08 | 0.812   | 0.0   | 0.08 | 1.243   | 0.001 |
| 46 | 2465 | 2466 | SN | 1 | -34.868 | 19.383 | 0.0   | -34.88  | 20.388 | 0.0   | 1.934   | 21.991 | 0.0   | 2.079   | 21.728 | 0.0   | 0.08  | 205.051 | 4.124 | 0.08  | 210.49  | 3.855 | 0.08 | 0.116   | 0.0   | 0.08 | 0.115   | 0.0   |
| 47 | 2465 | 2466 | NS | 1 | -34.891 | 20.636 | 0.0   | -34.82  | 20.908 | 0.0   | -11.658 | 21.944 | 0.0   | -26.727 | 22.557 | 0.012 | 0.08  | 206.144 | 9.592 | 0.08  | 207.555 | 9.654 | 0.08 | 1.042   | 0.002 | 0.08 | 31.52   | 0.043 |
| 48 | 2466 | 2467 | NS | 2 | -34.648 | 20.527 | 0.0   | -34.671 | 20.956 | 0.0   | -18.85  | 21.637 | 0.0   | -33.296 | 22.274 | 0.004 | 0.08  | 194.93  | 3.045 | 0.08  | 195.966 | 3.905 | 0.08 | 5.189   | 0.005 | 0.08 | 142.811 | 0.034 |
| 49 | 2466 | 2467 | SN | 1 | -34.956 | 19.177 | 0.0   | -34.722 | 19.913 | 0.0   | 0.836   | 22.225 | 0.017 | 2.09    | 22.436 | 0.027 | 0.08  | 209.237 | 3.259 | 0.08  | 198.324 | 3.001 | 0.08 | 0.127   | 0.0   | 0.08 | 0.115   | 0.0   |
| 50 | 2467 | 2468 | SN | 1 | -34.951 | 19.209 | 0.0   | -34.753 | 20.268 | 0.0   | 1.082   | 21.542 | 0.0   | 1.67    | 22.43  | 0.027 | 0.08  | 213.955 | 4.104 | 0.08  | 199.713 | 3.951 | 0.08 | 0.124   | 0.0   | 0.08 | 0.118   | 0.0   |
| 51 | 2467 | 2468 | NS | 1 | -34.154 | 16.267 | 0.0   | -34.942 | 16.352 | 0.0   | -11.448 | 22.229 | 0.004 | -12.127 | 22.455 | 0.011 | 0.081 | 173.996 | 1.963 | 0.081 | 208.566 | 2.095 | 0.08 | 0.995   | 0.0   | 0.08 | 1.153   | 0.001 |
| 52 | 2469 | 2470 | SN | 1 | -34.445 | 20.535 | 0.0   | -34.478 | 20.845 | 0.0   | 0.494   | 23.151 | 0.156 | 2.445   | 24.933 | 0.338 | 0.08  | 186.047 | 1.655 | 0.08  | 187.417 | 1.367 | 0.08 | 0.131   | 0.0   | 0.08 | 0.112   | 0.0   |
| 53 | 2470 | 2471 | NS | 1 | -34.881 | 20.475 | 0.0   | -34.399 | 20.153 | 0.0   | -4.457  | 23.4   | 0.237 | -4.217  | 23.388 | 0.543 | 0.08  | 205.729 | 0.942 | 0.08  | 184.069 | 0.909 | 0.08 | 0.253   | 0.0   | 0.08 | 0.243   | 0.0   |
| 54 | 2470 | 2471 | SN | 1 | -34.736 | 21.482 | 0.0   | -34.713 | 21.705 | 0.0   | -9.147  | 22.611 | 0.057 | -6.316  | 24.07  | 0.309 | 0.08  | 198.915 | 4.903 | 0.08  | 197.879 | 4.755 | 0.08 | 0.613   | 0.0   | 0.08 | 0.351   | 0.0   |
| 55 | 2471 | 2472 | NS | 1 | -34.614 | 19.734 | 0.0   | -34.677 | 19.783 | 0.0   | 0.833   | 23.187 | 0.394 | 1.179   | 23.512 | 1.136 | 0.08  | 193.388 | 3.383 | 0.08  | 196.26  | 3.223 | 0.08 | 0.127   | 0.0   | 0.08 | 0.123   | 0.0   |
| 56 | 2471 | 2472 | SN | 1 | -34.645 | 22.237 | 0.001 | -34.099 | 23.925 | 0.01  | -29.667 | 22.676 | 0.018 | -6.093  | 23.768 | 0.366 | 0.08  | 194.771 | 4.795 | 0.08  | 171.76  | 3.96  | 0.08 | 61.962  | 0.039 | 0.08 | 0.337   | 0.0   |
| 57 | 2472 | 2473 | NS | 1 | -34.869 | 20.234 | 0.0   | -34.753 | 19.872 | 0.0   | -6.01   | 23.086 | 0.103 | -7.068  | 23.541 | 0.53  | 0.08  | 205.118 | 1.683 | 0.08  | 199.738 | 1.877 | 0.08 | 0.332   | 0.0   | 0.08 | 0.405   | 0.0   |
| 58 | 2472 | 2473 | SN | 1 | -34.858 | 21.559 | 0.0   | -34.97  | 23.224 | 0.006 | -32.439 | 22.749 | 0.052 | -32.603 | 23.956 | 0.43  | 0.08  | 204.594 | 8.271 | 0.08  | 209.921 | 7.84  | 0.08 | 117.257 | 0.173 | 0.08 | 121.757 | 0.142 |
| 59 | 2473 | 2474 | NS | 1 | -34.806 | 18.171 | 0.0   | -34.813 | 17.656 | 0.0   | 1.164   | 22.805 | 0.247 | 1.077   | 23.111 | 0.369 | 0.081 | 202.183 | 2.244 | 0.081 | 202.506 | 2.556 | 0.08 | 0.123   | 0.0   | 0.08 | 0.124   | 0.0   |
| 60 | 2473 | 2474 | SN | 1 | -34.909 | 19.48  | 0.0   | -34.601 | 21.688 | 0.0   | -15.134 | 22.78  | 0.014 | -17.755 | 23.66  | 0.296 | 0.08  | 207.036 | 3.49  | 0.08  | 192.837 | 3.183 | 0.08 | 2.241   | 0.001 | 0.08 | 4.046   | 0.008 |
| 61 | 2474 | 2475 | SN | 1 | -33.392 | 20.605 | 0.0   | -32.697 | 21.414 | 0.0   | -26.02  | 22.487 | 0.032 | -23.858 | 23.714 | 0.3   | 0.08  | 145.967 | 2.304 | 0.08  | 124.416 | 2.387 | 0.08 | 26.788  | 0.01  | 0.08 | 16.305  | 0.006 |
| 62 | 2474 | 2475 | NS | 1 | -34.131 | 18.226 | 0.0   | -34.536 | 18.142 | 0.0   | 5.175   | 23.082 | 0.452 | 5.621   | 23.567 | 0.329 | 0.081 | 173.084 | 1.544 | 0.081 | 190.016 | 1.424 | 0.08 | 0.096   | 0.0   | 0.08 | 0.095   | 0.0   |
| 63 | 2475 | 2476 | NS | 1 | -33.867 | 19.466 | 0.0   | -34.813 | 20.572 | 0.0   | 1.162   | 23.23  | 0.289 | -0.379  | 22.873 | 0.355 | 0.08  | 162.835 | 2.465 | 0.08  | 202.491 | 2.397 | 0.08 | 0.124   | 0.0   | 0.08 | 0.144   | 0.0   |
| 64 | 2475 | 2476 | SN | 2 | -34.861 | 20.053 | 0.0   | -34.892 | 21.363 | 0.0   | -29.75  | 23.037 | 0.151 | -17.803 | 23.631 | 1.056 | 0.08  | 204.784 | 2.224 | 0.08  | 206.246 | 1.912 | 0.08 | 63.162  | 0.085 | 0.08 | 4.091   | 0.032 |
| 65 | 2476 | 2477 | NS | 1 | -34.849 | 18.162 | 0.0   | -34.908 | 21.578 | 0.0   | 4.853   | 22.679 | 0.141 | 2.972   | 21.483 | 0.0   | 0.081 | 204.182 | 2.357 | 0.08  | 206.98  | 2.376 | 0.08 | 0.098   | 0.0   | 0.08 | 0.108   | 0.0   |

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

■ Normal      ■ Deviations  
■ Alarming      ■ High Errors