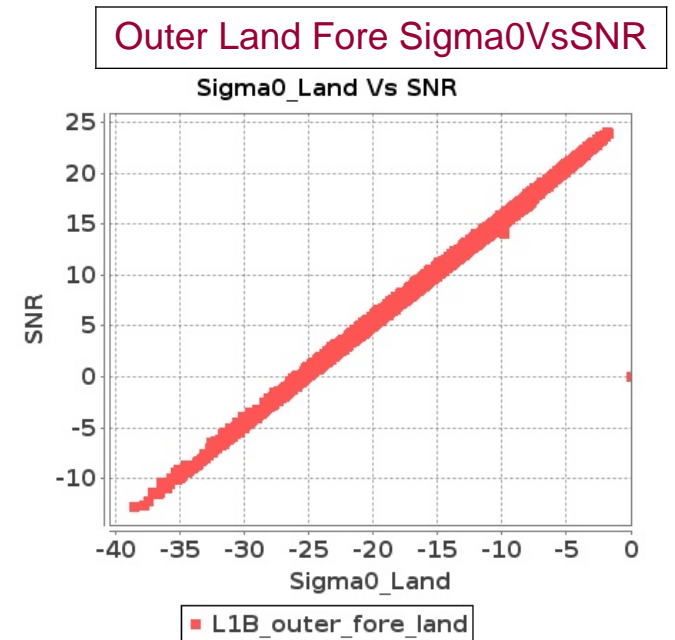
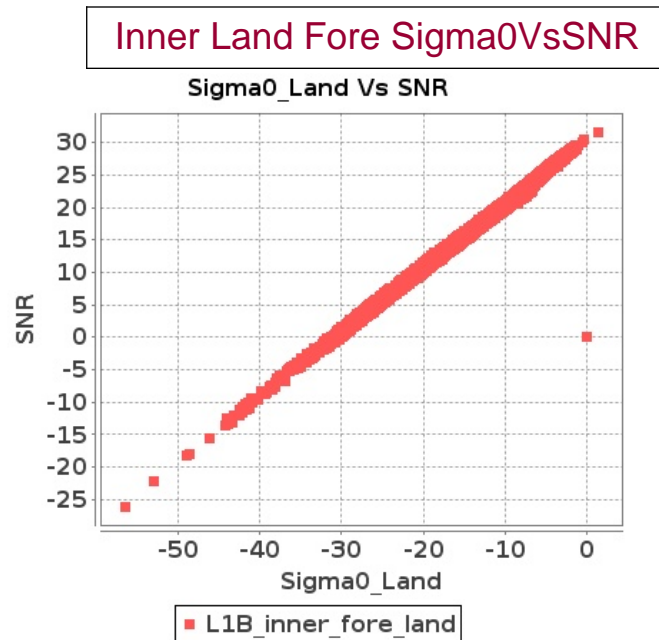
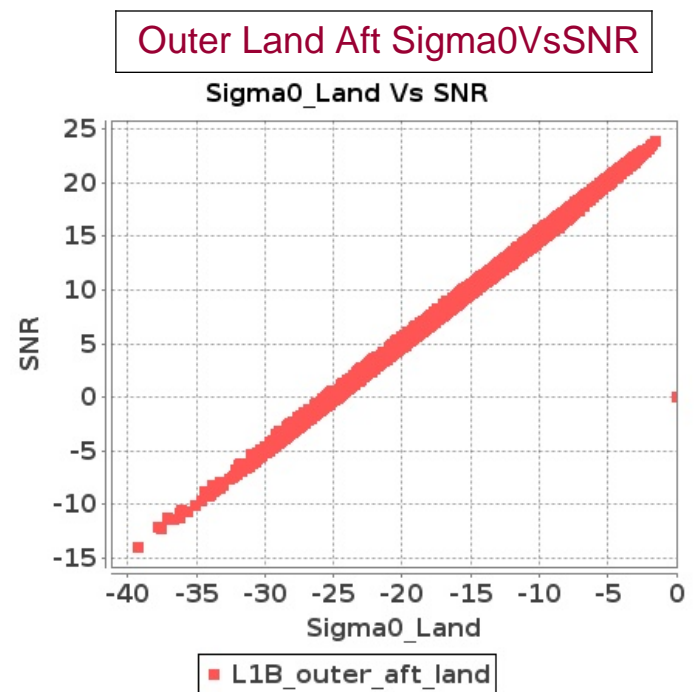
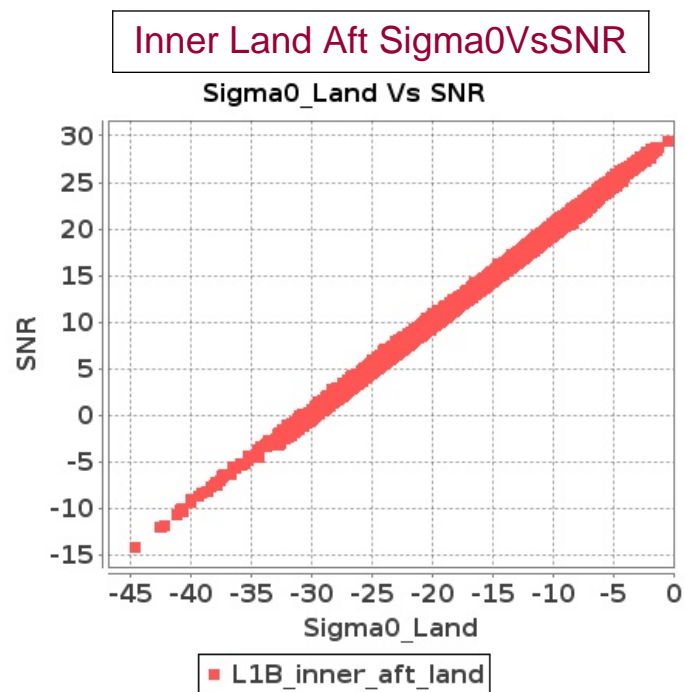
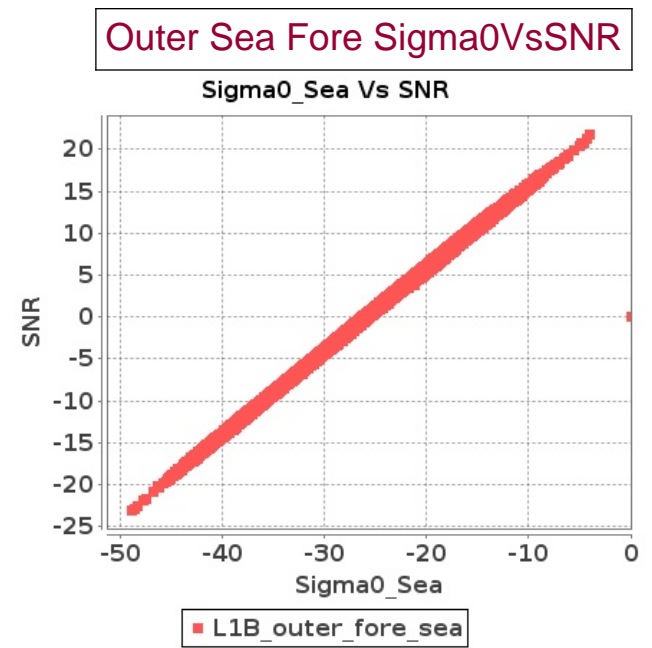
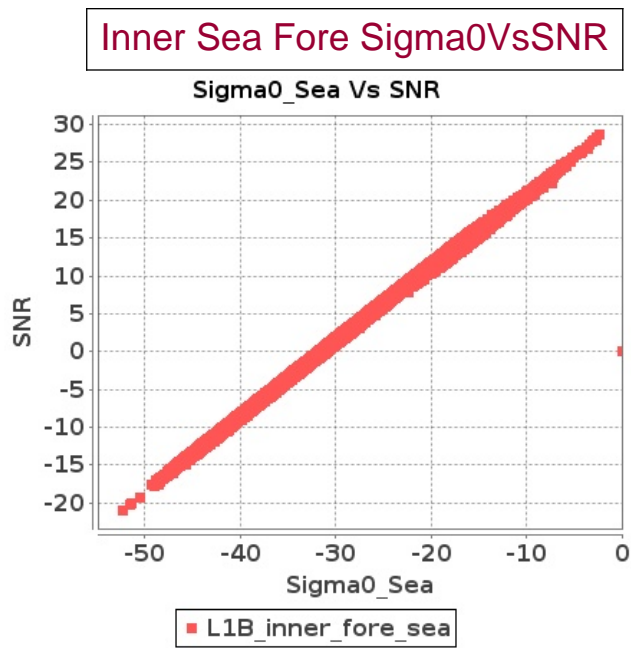
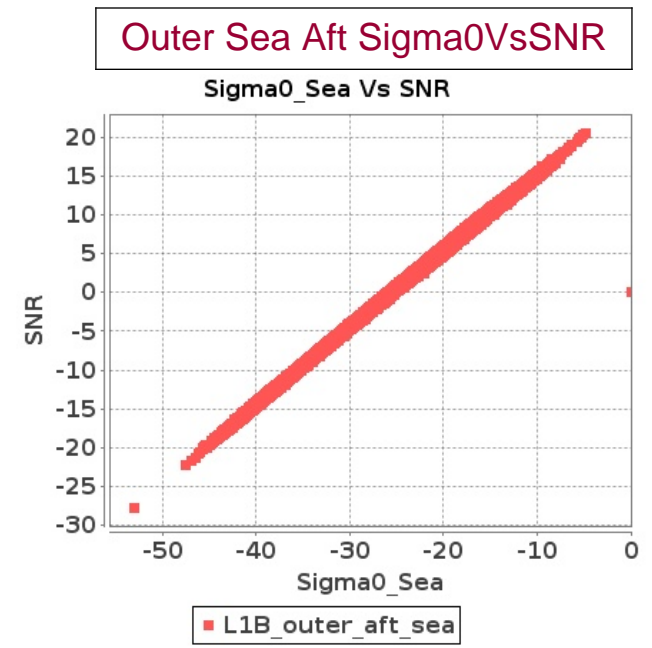
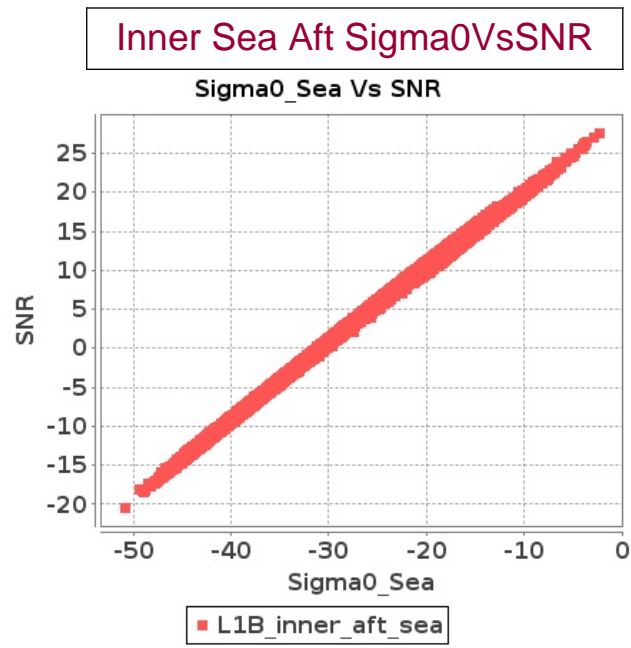
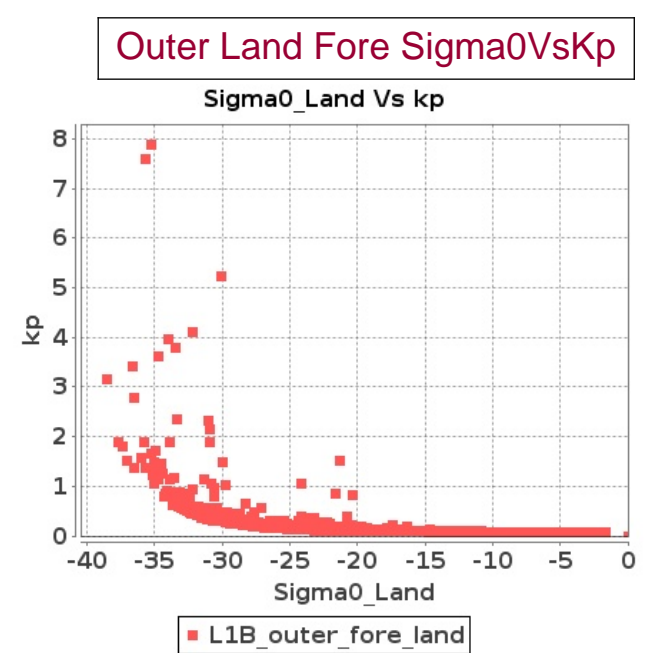
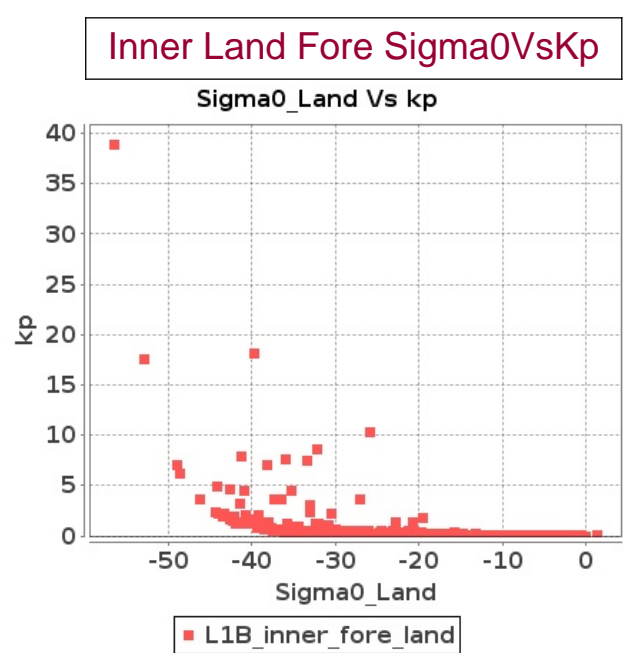
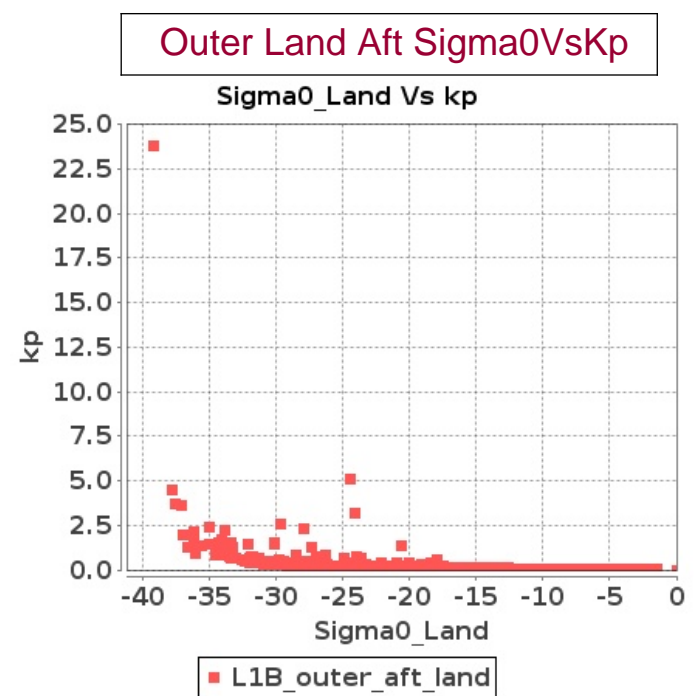
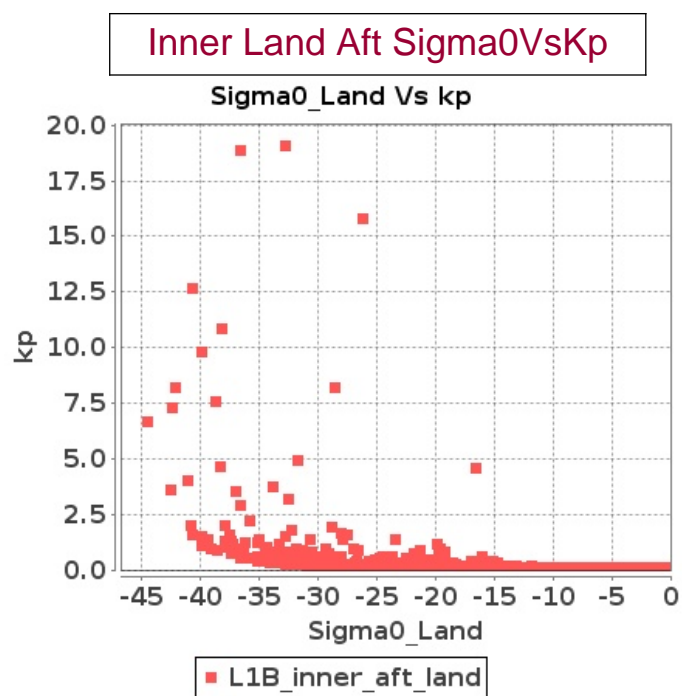
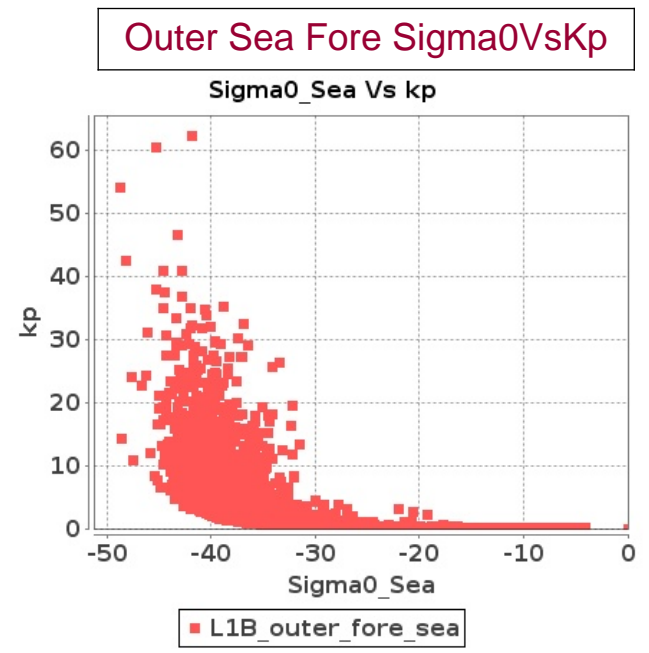
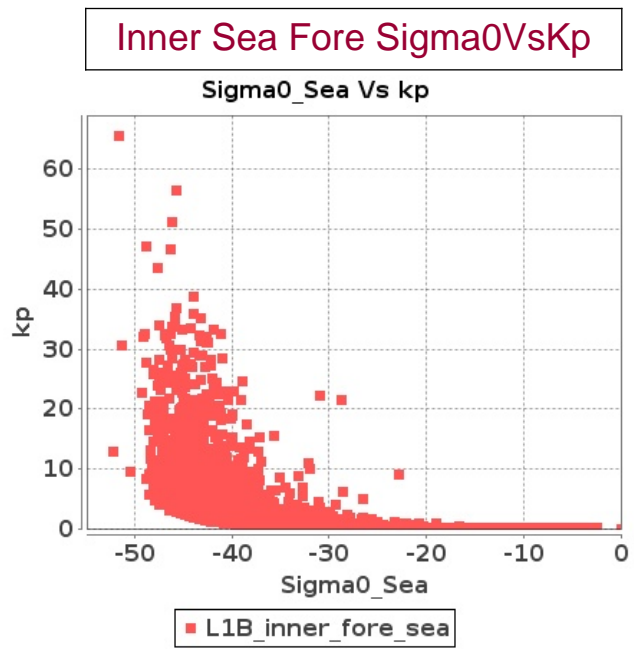
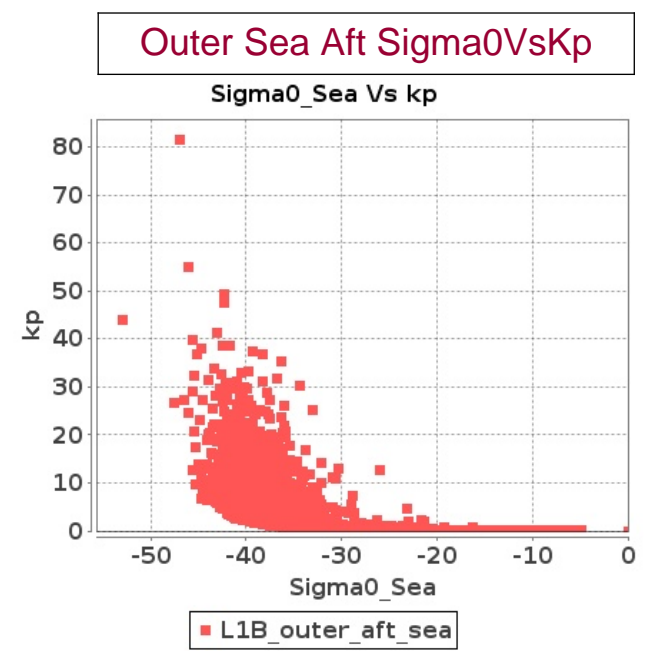
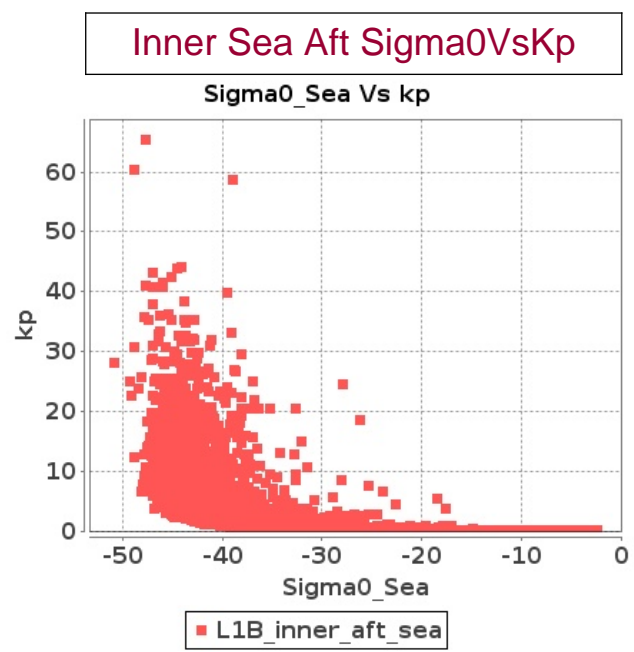


SCATSAT-1 Scatterometer Level-1B Data Quality Cycle wise Report

Report between 30-MAR-2018 To 31-MAR-2018





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

Report between 30-MAR-2018 To 31-MAR-2018

| | | | | | 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 | 7972 | 7973 | SN | 1 | 48.673 | 49.304 | 0.0 | 0.003 | 6.1 | 2.74 | 1019.04 | 1071.672 | 18.506 | -91.459 | -89.691 | 0.0 |
| 2 | 7972 | 7973 | SN | 1 | 48.657 | 49.304 | 0.0 | 0.003 | 6.1 | 2.742 | 1019.04 | 1071.672 | 18.524 | -91.52 | -89.691 | 0.0 |
| 3 | 7972 | 7973 | SN | 1 | 48.657 | 49.304 | 0.0 | 0.003 | 6.1 | 2.449 | 1019.04 | 1071.672 | 19.003 | -91.52 | -89.691 | 0.0 |
| 4 | 7972 | 7973 | NS | 1 | 48.817 | 49.442 | 0.0 | 0.003 | 14.604 | 2.709 | 1053.976 | 1075.216 | 0.0 | -91.737 | -90.053 | 0.0 |
| 5 | 7973 | 7974 | SN | 1 | 48.68 | 49.303 | 0.0 | 0.003 | 6.105 | 2.418 | 1018.928 | 1071.848 | 19.176 | -91.372 | -89.736 | 0.0 |
| 6 | 7973 | 7974 | SN | 1 | 48.68 | 49.303 | 0.0 | 0.003 | 6.105 | 2.563 | 1018.928 | 1071.848 | 18.92 | -91.372 | -89.736 | 0.0 |
| 7 | 7973 | 7974 | SN | 2 | 48.68 | 49.303 | 0.0 | 0.003 | 6.105 | 2.418 | 1018.928 | 1071.848 | 19.176 | -91.372 | -89.736 | 0.0 |
| 8 | 7973 | 7974 | NS | 1 | 48.855 | 49.415 | 0.0 | 0.003 | 41.911 | 2.57 | 1054.152 | 1075.336 | 0.0 | -91.636 | -90.034 | 0.0 |
| 9 | 7973 | 7974 | NS | 1 | 48.856 | 49.415 | 0.0 | 0.003 | 266.419 | 2.572 | 1054.152 | 1075.328 | 0.0 | -92.034 | -90.034 | 0.0 |
| 10 | 7974 | 7975 | NS | 1 | 48.85 | 49.414 | 0.0 | 0.003 | 267.218 | 2.585 | 1054.24 | 1075.768 | 0.0 | -91.652 | -90.037 | 0.0 |
| 11 | 7974 | 7975 | SN | 2 | 48.648 | 49.312 | 0.0 | 0.003 | 215.686 | 2.539 | 1018.712 | 1071.848 | 19.454 | -91.508 | -89.738 | 0.0 |
| 12 | 7974 | 7975 | NS | 1 | 48.85 | 49.414 | 0.0 | 0.003 | 267.218 | 2.583 | 1054.24 | 1075.824 | 0.0 | -91.662 | -90.037 | 0.0 |
| 13 | 7974 | 7975 | SN | 1 | 48.648 | 49.312 | 0.0 | 0.003 | 215.686 | 2.539 | 1018.712 | 1071.848 | 19.454 | -91.508 | -89.738 | 0.0 |
| 14 | 7974 | 7975 | SN | 1 | 48.648 | 49.312 | 0.0 | 0.003 | 215.686 | 2.355 | 1018.712 | 1071.848 | 19.74 | -91.508 | -89.738 | 0.0 |
| 15 | 7975 | 7976 | SN | 1 | 48.664 | 49.359 | 0.0 | 0.003 | 6.105 | 2.279 | 1019.752 | 1071.672 | 20.445 | -91.516 | -89.734 | 0.0 |
| 16 | 7975 | 7976 | SN | 1 | 48.654 | 49.36 | 0.0 | 0.003 | 6.105 | 2.594 | 1019.752 | 1071.68 | 20.025 | -91.516 | -89.734 | 0.0 |
| 17 | 7975 | 7976 | SN | 2 | 48.664 | 49.359 | 0.0 | 0.003 | 6.105 | 2.589 | 1019.752 | 1071.672 | 20.018 | -91.516 | -89.734 | 0.0 |
| 18 | 7975 | 7976 | NS | 1 | 48.814 | 49.415 | 0.0 | 0.003 | 210.342 | 2.639 | 1054.504 | 1075.832 | 0.0 | -91.725 | -90.057 | 0.0 |
| 19 | 7975 | 7976 | NS | 1 | 48.814 | 49.415 | 0.0 | 0.003 | 210.342 | 2.636 | 1054.504 | 1076.032 | 0.0 | -91.644 | -90.057 | 0.0 |
| 20 | 7976 | 7977 | NS | 2 | 48.858 | 49.416 | 0.0 | 0.0 | 263.871 | 2.757 | 1055.296 | 1076.072 | 0.0 | -91.737 | -90.067 | 0.0 |
| 21 | 7976 | 7977 | SN | 1 | 48.666 | 49.366 | 0.0 | 0.003 | 6.1 | 2.558 | 1018.88 | 1071.512 | 19.766 | -91.532 | -89.736 | 0.0 |
| 22 | 7976 | 7977 | SN | 1 | 48.666 | 49.366 | 0.0 | 0.003 | 6.1 | 2.556 | 1018.88 | 1071.512 | 19.746 | -91.532 | -89.736 | 0.0 |
| 23 | 7976 | 7977 | NS | 1 | 48.856 | 49.417 | 0.0 | 0.0 | 210.508 | 2.758 | 1055.272 | 1076.04 | 0.0 | -91.707 | -90.067 | 0.0 |
| 24 | 7977 | 7978 | NS | 1 | 48.856 | 49.454 | 0.0 | 0.003 | 267.053 | 2.606 | 1055.216 | 1076.024 | 0.0 | -91.692 | -90.073 | 0.0 |
| 25 | 7977 | 7978 | SN | 1 | 48.668 | 49.302 | 0.0 | 0.003 | 28.273 | 2.632 | 1019.752 | 1071.336 | 19.691 | -91.557 | -89.737 | 0.0 |
| 26 | 7977 | 7978 | SN | 1 | 48.668 | 49.302 | 0.0 | 0.003 | 28.273 | 2.635 | 1019.976 | 1071.336 | 19.669 | -91.557 | -89.737 | 0.0 |
| 27 | 7978 | 7979 | NS | 1 | 48.855 | 49.44 | 0.0 | 0.003 | 16.97 | 2.637 | 1054.12 | 1074.744 | 0.0 | -91.68 | -90.076 | 0.0 |
| 28 | 7978 | 7979 | SN | 1 | 48.681 | 49.356 | 0.0 | 0.003 | 282.28 | 2.686 | 1019.432 | 1071.32 | 18.2 | -91.535 | -89.704 | 0.0 |
| 29 | 7978 | 7979 | SN | 1 | 48.68 | 49.356 | 0.0 | 0.003 | 282.28 | 2.689 | 1019.68 | 1071.32 | 18.22 | -91.535 | -89.704 | 0.0 |
| 30 | 7979 | 7980 | NS | 1 | 48.827 | 49.418 | 0.0 | 0.0 | 206.862 | 2.695 | 1053.96 | 1074.728 | 0.0 | -91.645 | -90.071 | 0.0 |
| 31 | 7979 | 7980 | SN | 1 | 48.674 | 49.305 | 0.0 | 0.003 | 6.089 | 2.611 | 1019.416 | 1071.4 | 16.517 | -91.434 | -89.729 | 0.0 |
| 32 | 7980 | 7981 | SN | 2 | 48.671 | 49.301 | 0.0 | 0.0 | 50.291 | 2.577 | 1019.712 | 1071.32 | 17.241 | -91.528 | -89.743 | 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 | 7980 | 7981 | NS | 1 | 48.807 | 49.416 | 0.0 | 0.0 | 263.816 | 2.837 | 1054.4 | 1074.824 | 0.0 | -91.674 | -90.062 | 0.0 |
| 34 | 7980 | 7981 | NS | 1 | 48.807 | 49.416 | 0.0 | 0.0 | 263.816 | 2.834 | 1054.4 | 1075.312 | 0.0 | -92.15 | -90.062 | 0.0 |
| 35 | 7980 | 7981 | SN | 1 | 48.671 | 49.301 | 0.0 | 0.0 | 50.291 | 2.577 | 1019.712 | 1071.32 | 17.241 | -91.528 | -89.743 | 0.0 |
| 36 | 7981 | 7982 | NS | 1 | 48.855 | 49.417 | 0.0 | 0.003 | 206.928 | 2.725 | 1054.184 | 1075.448 | 0.0 | -91.684 | -90.052 | 0.0 |
| 37 | 7981 | 7982 | NS | 1 | 48.855 | 49.417 | 0.0 | 0.003 | 206.928 | 2.723 | 1054.184 | 1074.608 | 0.0 | -91.706 | -90.052 | 0.0 |
| 38 | 7986 | 7987 | SN | 1 | 48.669 | 49.347 | 0.0 | 0.0 | 74.938 | 2.74 | 1020.624 | 1070.936 | 16.603 | -91.776 | -89.723 | 0.0 |
| 39 | 7986 | 7987 | SN | 1 | 48.669 | 49.347 | 0.0 | 0.003 | 214.434 | 2.033 | 1020.624 | 1070.936 | 17.324 | -91.549 | -89.723 | 0.0 |
| 40 | 7986 | 7987 | SN | 1 | 48.669 | 49.347 | 0.0 | 0.0 | 74.938 | 2.728 | 1020.624 | 1070.936 | 16.621 | -91.549 | -89.723 | 0.0 |
| 41 | 7987 | 7988 | SN | 2 | 48.683 | 49.3 | 0.0 | 0.003 | 30.013 | 2.636 | 1019.536 | 1070.88 | 16.56 | -91.496 | -89.721 | 0.0 |
| 42 | 7987 | 7988 | SN | 1 | 48.683 | 49.3 | 0.0 | 0.003 | 30.013 | 2.636 | 1019.536 | 1070.88 | 16.56 | -91.496 | -89.721 | 0.0 |
| 43 | 7987 | 7988 | NS | 1 | 48.857 | 49.416 | 0.0 | 0.003 | 263.882 | 2.604 | 1054.208 | 1074.2 | 0.0 | -91.647 | -90.057 | 0.0 |
| 44 | 7987 | 7988 | SN | 1 | 48.683 | 49.3 | 0.0 | 0.003 | 30.013 | 2.452 | 1019.536 | 1070.88 | 16.844 | -91.496 | -89.721 | 0.0 |
| 45 | 7987 | 7988 | NS | 1 | 48.857 | 49.416 | 0.0 | 0.003 | 263.882 | 2.606 | 1053.688 | 1074.2 | 0.0 | -91.634 | -90.057 | 0.0 |
| 46 | 7988 | 7989 | SN | 2 | 48.686 | 49.3 | 0.0 | 0.003 | 6.094 | 2.379 | 1019.448 | 1070.984 | 17.558 | -91.454 | -89.741 | 0.0 |
| 47 | 7988 | 7989 | NS | 1 | 48.859 | 49.417 | 0.0 | 0.0 | 53.512 | 2.648 | 1053.92 | 1074.744 | 0.0 | -91.608 | -90.019 | 0.0 |
| 48 | 7988 | 7989 | SN | 1 | 48.701 | 49.301 | 0.0 | 0.003 | 6.089 | 2.38 | 1019.792 | 1070.992 | 17.564 | -91.454 | -89.74 | 0.0 |
| 49 | 7988 | 7989 | NS | 1 | 48.859 | 49.417 | 0.0 | 0.0 | 53.512 | 2.65 | 1054.04 | 1074.392 | 0.0 | -91.608 | -90.019 | 0.0 |
| 50 | 7988 | 7989 | SN | 1 | 48.701 | 49.301 | 0.0 | 0.003 | 6.089 | 2.538 | 1019.792 | 1070.992 | 17.33 | -91.454 | -89.74 | 0.0 |
| 51 | 7989 | 7990 | SN | 1 | 48.652 | 49.299 | 0.0 | 0.003 | 281.419 | 2.319 | 1019.592 | 1070.832 | 18.349 | -91.366 | -89.74 | 0.0 |
| 52 | 7989 | 7990 | SN | 1 | 48.652 | 49.299 | 0.0 | 0.003 | 281.419 | 2.572 | 1019.592 | 1070.832 | 18.023 | -91.85 | -89.74 | 0.0 |
| 53 | 7989 | 7990 | NS | 1 | 48.829 | 49.417 | 0.0 | 0.003 | 263.782 | 2.605 | 1054.04 | 1074.576 | 0.0 | -92.086 | -90.072 | 0.0 |
| 54 | 7989 | 7990 | NS | 1 | 48.829 | 49.417 | 0.0 | 0.003 | 263.782 | 2.608 | 1054.04 | 1075.288 | 0.0 | -91.73 | -90.072 | 0.0 |
| 55 | 7990 | 7991 | NS | 1 | 48.859 | 49.446 | 0.0 | 0.0 | 263.92 | 2.677 | 1054.496 | 1074.792 | 0.0 | -91.725 | -90.037 | 0.0 |
| 56 | 7990 | 7991 | SN | 1 | 48.649 | 49.317 | 0.0 | 0.003 | 6.083 | 2.549 | 1019.736 | 1070.664 | 17.939 | -91.601 | -89.741 | 0.0 |
| 57 | 7991 | 7992 | SN | 1 | 48.693 | 49.332 | 0.0 | 0.003 | 216.194 | 2.587 | 1019.744 | 1070.504 | 17.994 | -91.774 | -89.741 | 0.0 |
| 58 | 7991 | 7992 | NS | 1 | 48.859 | 49.448 | 0.0 | 0.003 | 206.868 | 2.706 | 1055.096 | 1074.872 | 0.0 | -91.705 | -90.068 | 0.0 |
| 59 | 7992 | 7993 | SN | 1 | 48.713 | 49.319 | 0.0 | 0.003 | 6.066 | 1.789 | 1020.592 | 1070.392 | 17.994 | -91.784 | -89.741 | 0.0 |
| 60 | 7992 | 7993 | SN | 1 | 48.713 | 49.319 | 0.0 | 0.003 | 6.066 | 2.66 | 1020.592 | 1070.392 | 17.002 | -91.784 | -89.741 | 0.0 |
| 61 | 7992 | 7993 | NS | 1 | 48.799 | 49.448 | 0.0 | 0.0 | 53.512 | 2.717 | 1054.064 | 1074.144 | 0.0 | -91.686 | -90.074 | 0.0 |
| 62 | 7993 | 7994 | SN | 1 | 48.663 | 49.299 | 0.0 | 0.003 | 6.061 | 2.69 | 1020.32 | 1070.464 | 13.971 | -91.346 | -89.737 | 0.0 |
| 63 | 7993 | 7994 | NS | 1 | 48.824 | 49.417 | 0.0 | 0.003 | 268.614 | 2.64 | 1054.752 | 1073.728 | 0.0 | -91.697 | -90.073 | 0.0 |
| 64 | 7994 | 7995 | NS | 1 | 48.799 | 49.419 | 0.0 | 0.003 | 206.939 | 2.711 | 1053.872 | 1073.696 | 0.0 | -91.65 | -90.038 | 0.0 |
| 65 | 7994 | 7995 | SN | 1 | 48.685 | 49.336 | 0.0 | 0.003 | 214.274 | 2.597 | 1020.512 | 1070.448 | 14.21 | -91.526 | -89.718 | 0.0 |
| 66 | 7994 | 7995 | NS | 1 | 48.8 | 49.418 | 0.0 | 0.003 | 264.472 | 2.711 | 1053.696 | 1073.704 | 0.0 | -91.678 | -90.038 | 0.0 |
| 67 | 7995 | 7996 | NS | 1 | 48.861 | 49.418 | 0.0 | 0.003 | 16.887 | 2.736 | 1053.88 | 1073.784 | 0.0 | -91.675 | -90.051 | 0.0 |
| 68 | 7995 | 7996 | SN | 1 | 48.658 | 49.298 | 0.0 | 0.003 | 6.083 | 2.571 | 1020.176 | 1070.32 | 15.181 | -91.283 | -89.747 | 0.0 |
| 69 | 7995 | 7996 | NS | 1 | 48.846 | 49.419 | 0.0 | 0.003 | 16.887 | 2.733 | 1053.84 | 1073.512 | 0.0 | -92.099 | -90.05 | 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 |

| | | | | | | | | | | | | | | | | |
|----|------|------|----|---|--------|--------|-----|-------|--------|-------|----------|----------|-----|---------|---------|-----|
| 70 | 7996 | 7997 | NS | 1 | 48.826 | 49.418 | 0.0 | 0.003 | 17.223 | 2.684 | 1053.688 | 1073.392 | 0.0 | -91.726 | -90.073 | 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 | 7972 | 7973 | SN | 1 | -34.475 | 27.037 | 2.205 | -34.158 | 27.67 | 3.339 | -32.378 | 36.383 | 19.568 | -7.427 | 30.94 | 27.401 | 0.116 | 271.565 | 2.005 | 0.116 | 252.5 | 1.609 | 0.116 | 167.64 | 0.003 | 0.116 | 0.629 | 0.0 |
| 2 | 7972 | 7973 | SN | 1 | -34.796 | 27.036 | 2.211 | -33.884 | 27.67 | 3.305 | -33.212 | 36.383 | 19.569 | -7.436 | 30.94 | 27.387 | 0.116 | 292.446 | 2.011 | 0.116 | 237.027 | 1.61 | 0.116 | 203.098 | 0.003 | 0.116 | 0.63 | 0.0 |
| 3 | 7972 | 7973 | SN | 1 | -34.796 | 27.036 | 1.333 | -33.884 | 27.67 | 3.478 | -33.212 | 36.383 | 19.568 | -7.436 | 30.94 | 27.387 | 0.116 | 292.446 | 2.129 | 0.116 | 237.027 | 1.7 | 0.116 | 203.098 | 0.003 | 0.116 | 0.63 | 0.0 |
| 4 | 7972 | 7973 | NS | 1 | -34.815 | 28.227 | 0.515 | -34.984 | 28.796 | 0.096 | 8.772 | 30.032 | 16.372 | 7.704 | 36.137 | 30.305 | 0.116 | 293.678 | 3.015 | 0.116 | 305.349 | 3.343 | 0.116 | 0.126 | 0.0 | 0.116 | 0.129 | 0.0 |
| 5 | 7973 | 7974 | SN | 1 | -34.476 | 26.36 | 1.128 | -34.049 | 26.708 | 1.585 | 5.034 | 29.935 | 16.043 | 5.133 | 30.291 | 19.699 | 0.116 | 271.66 | 4.767 | 0.116 | 246.279 | 4.05 | 0.116 | 0.14 | 0.0 | 0.116 | 0.14 | 0.0 |
| 6 | 7973 | 7974 | SN | 1 | -34.476 | 26.36 | 1.106 | -34.049 | 26.708 | 1.553 | 5.034 | 29.935 | 16.043 | 5.133 | 30.291 | 19.699 | 0.116 | 271.66 | 4.665 | 0.116 | 246.279 | 3.969 | 0.116 | 0.14 | 0.0 | 0.116 | 0.14 | 0.0 |
| 7 | 7973 | 7974 | SN | 2 | -34.476 | 26.36 | 1.128 | -34.049 | 26.708 | 1.585 | 5.034 | 29.935 | 16.043 | 5.133 | 30.291 | 19.699 | 0.116 | 271.66 | 4.767 | 0.116 | 246.279 | 4.05 | 0.116 | 0.14 | 0.0 | 0.116 | 0.14 | 0.0 |
| 8 | 7973 | 7974 | NS | 1 | -34.929 | 28.04 | 0.074 | -34.812 | 28.685 | 0.098 | -6.743 | 34.509 | 9.446 | -2.548 | 30.226 | 21.509 | 0.116 | 301.556 | 6.448 | 0.116 | 293.532 | 6.358 | 0.116 | 0.552 | 0.0 | 0.116 | 0.273 | 0.0 |
| 9 | 7973 | 7974 | NS | 1 | -34.762 | 28.04 | 0.074 | -34.871 | 28.683 | 0.096 | -6.745 | 34.509 | 9.446 | -2.548 | 30.226 | 21.506 | 0.116 | 290.154 | 6.439 | 0.116 | 297.471 | 6.365 | 0.116 | 0.552 | 0.0 | 0.116 | 0.273 | 0.0 |
| 10 | 7974 | 7975 | NS | 1 | -34.85 | 26.567 | 0.022 | -34.869 | 27.268 | 0.027 | -15.614 | 30.646 | 11.254 | -34.218 | 29.738 | 20.049 | 0.116 | 296.11 | 8.523 | 0.116 | 297.436 | 8.933 | 0.116 | 3.618 | 0.004 | 0.116 | 256.006 | 0.002 |
| 11 | 7974 | 7975 | SN | 2 | -34.973 | 26.049 | 0.425 | -34.976 | 26.647 | 0.475 | 7.096 | 30.264 | 25.196 | 8.421 | 30.82 | 25.392 | 0.116 | 304.545 | 4.638 | 0.116 | 304.844 | 3.493 | 0.116 | 0.131 | 0.0 | 0.116 | 0.127 | 0.0 |
| 12 | 7974 | 7975 | NS | 1 | -34.561 | 26.567 | 0.022 | -34.798 | 27.268 | 0.027 | -15.614 | 30.646 | 11.252 | -34.218 | 29.738 | 20.051 | 0.116 | 277.034 | 8.517 | 0.116 | 292.619 | 8.923 | 0.116 | 3.618 | 0.004 | 0.116 | 256.006 | 0.002 |
| 13 | 7974 | 7975 | SN | 1 | -34.973 | 26.049 | 0.425 | -34.976 | 26.647 | 0.475 | 7.096 | 30.264 | 25.196 | 8.421 | 30.82 | 25.392 | 0.116 | 304.545 | 4.638 | 0.116 | 304.844 | 3.493 | 0.116 | 0.131 | 0.0 | 0.116 | 0.127 | 0.0 |
| 14 | 7974 | 7975 | SN | 1 | -34.973 | 26.049 | 0.432 | -34.976 | 26.647 | 0.478 | 7.096 | 30.264 | 25.198 | 8.421 | 30.82 | 25.439 | 0.116 | 304.545 | 4.721 | 0.116 | 304.844 | 3.547 | 0.116 | 0.131 | 0.0 | 0.116 | 0.127 | 0.0 |
| 15 | 7975 | 7976 | SN | 1 | -34.591 | 26.312 | 0.388 | -34.834 | 26.456 | 0.484 | 7.107 | 28.528 | 18.424 | 7.438 | 29.155 | 15.446 | 0.116 | 278.967 | 3.796 | 0.116 | 295.013 | 4.203 | 0.116 | 0.131 | 0.0 | 0.116 | 0.13 | 0.0 |
| 16 | 7975 | 7976 | SN | 1 | -34.646 | 26.312 | 0.379 | -34.996 | 26.456 | 0.474 | 7.107 | 28.528 | 18.441 | 7.438 | 29.155 | 15.231 | 0.116 | 282.54 | 3.702 | 0.116 | 306.183 | 4.129 | 0.116 | 0.131 | 0.0 | 0.116 | 0.13 | 0.0 |
| 17 | 7975 | 7976 | SN | 2 | -34.767 | 26.312 | 0.379 | -34.996 | 26.456 | 0.475 | 7.107 | 28.528 | 18.441 | 7.438 | 29.155 | 15.246 | 0.116 | 290.496 | 3.702 | 0.116 | 306.183 | 4.127 | 0.116 | 0.131 | 0.0 | 0.116 | 0.13 | 0.0 |
| 18 | 7975 | 7976 | NS | 1 | -34.744 | 23.505 | 0.002 | -34.617 | 23.221 | 0.002 | -6.25 | 30.584 | 7.682 | -12.206 | 30.608 | 15.245 | 0.116 | 288.964 | 7.291 | 0.116 | 280.596 | 6.319 | 0.116 | 0.503 | 0.0 | 0.116 | 1.701 | 0.001 |
| 19 | 7975 | 7976 | NS | 1 | -34.987 | 23.505 | 0.002 | -34.719 | 23.221 | 0.002 | -6.25 | 30.584 | 7.669 | -12.206 | 30.608 | 15.235 | 0.116 | 305.54 | 7.29 | 0.116 | 287.329 | 6.346 | 0.116 | 0.503 | 0.0 | 0.116 | 1.701 | 0.001 |
| 20 | 7976 | 7977 | NS | 2 | -34.9 | 23.32 | 0.002 | -34.872 | 24.72 | 0.009 | -5.168 | 28.886 | 7.651 | -6.76 | 30.311 | 15.266 | 0.116 | 299.558 | 6.523 | 0.116 | 297.642 | 6.496 | 0.116 | 0.414 | 0.0 | 0.116 | 0.554 | 0.0 |
| 21 | 7976 | 7977 | SN | 1 | -34.295 | 24.559 | 0.087 | -34.185 | 25.391 | 0.128 | 6.328 | 29.106 | 18.591 | 8.402 | 29.449 | 23.805 | 0.116 | 260.63 | 3.333 | 0.116 | 254.137 | 2.972 | 0.116 | 0.134 | 0.0 | 0.116 | 0.127 | 0.0 |
| 22 | 7976 | 7977 | SN | 1 | -34.295 | 24.559 | 0.087 | -34.185 | 25.391 | 0.128 | 6.328 | 29.106 | 18.591 | 8.402 | 29.449 | 23.805 | 0.116 | 260.63 | 3.334 | 0.116 | 254.137 | 2.971 | 0.116 | 0.134 | 0.0 | 0.116 | 0.127 | 0.0 |
| 23 | 7976 | 7977 | NS | 1 | -34.929 | 23.32 | 0.002 | -34.908 | 24.72 | 0.009 | -5.168 | 28.886 | 7.651 | -6.76 | 30.311 | 15.267 | 0.116 | 301.59 | 6.522 | 0.116 | 300.075 | 6.495 | 0.116 | 0.414 | 0.0 | 0.116 | 0.553 | 0.0 |
| 24 | 7977 | 7978 | NS | 1 | -34.639 | 24.888 | 0.264 | -34.492 | 27.17 | 0.386 | -9.698 | 30.691 | 7.956 | -5.68 | 30.999 | 14.394 | 0.116 | 282.065 | 3.506 | 0.116 | 272.62 | 3.098 | 0.116 | 0.996 | 0.0 | 0.116 | 0.453 | 0.0 |
| 25 | 7977 | 7978 | SN | 1 | -34.872 | 21.7 | 0.0 | -33.898 | 22.823 | 0.006 | 6.3 | 28.298 | 16.702 | 8.506 | 29.466 | 23.85 | 0.116 | 297.644 | 2.342 | 0.116 | 237.836 | 1.891 | 0.116 | 0.134 | 0.0 | 0.116 | 0.126 | 0.0 |
| 26 | 7977 | 7978 | SN | 1 | -34.872 | 21.7 | 0.0 | -33.898 | 22.823 | 0.006 | 6.3 | 28.298 | 16.702 | 8.506 | 29.466 | 23.85 | 0.116 | 297.644 | 2.349 | 0.116 | 237.836 | 1.894 | 0.116 | 0.134 | 0.0 | 0.116 | 0.126 | 0.0 |
| 27 | 7978 | 7979 | NS | 1 | -33.551 | 26.112 | 0.374 | -34.533 | 27.483 | 0.583 | 6.841 | 29.823 | 17.027 | 8.014 | 30.085 | 26.144 | 0.116 | 219.605 | 1.811 | 0.116 | 275.254 | 1.597 | 0.116 | 0.132 | 0.0 | 0.116 | 0.128 | 0.0 |
| 28 | 7978 | 7979 | SN | 1 | -34.945 | 24.921 | 0.203 | -34.798 | 25.524 | 0.282 | 6.488 | 33.205 | 13.173 | -3.018 | 32.911 | 18.477 | 0.116 | 302.603 | 4.14 | 0.116 | 292.571 | 3.43 | 0.116 | 0.133 | 0.0 | 0.116 | 0.293 | 0.0 |
| 29 | 7978 | 7979 | SN | 1 | -34.945 | 24.921 | 0.203 | -34.951 | 25.524 | 0.282 | 6.488 | 33.205 | 13.208 | -3.018 | 32.91 | 18.515 | 0.116 | 302.603 | 4.14 | 0.116 | 303.113 | 3.436 | 0.116 | 0.133 | 0.0 | 0.116 | 0.293 | 0.0 |
| 30 | 7979 | 7980 | NS | 1 | -34.898 | 27.356 | 0.774 | -34.57 | 26.324 | 0.981 | -6.135 | 29.622 | 16.922 | -11.25 | 30.161 | 30.096 | 0.116 | 299.46 | 1.305 | 0.116 | 277.665 | 1.537 | 0.116 | 0.492 | 0.0 | 0.116 | 1.383 | 0.002 |
| 31 | 7979 | 7980 | SN | 1 | -34.813 | 27.034 | 0.453 | -34.843 | 27.631 | 0.519 | -6.581 | 33.122 | 16.17 | -2.323 | 30.424 | 19.841 | 0.116 | 293.573 | 2.951 | 0.116 | 295.606 | 2.222 | 0.116 | 0.535 | 0.0 | 0.116 | 0.265 | 0.0 |
| 32 | 7980 | 7981 | SN | 2 | -34.996 | 27.933 | 0.242 | -34.764 | 28.027 | 0.395 | -14.039 | 29.888 | 19.79 | -0.787 | 30.75 | 20.788 | 0.116 | 306.266 | 5.846 | 0.116 | 290.261 | 5.393 | 0.116 | 2.546 | 0.003 | 0.116 | 0.218 | 0.0 |
| 33 | 7980 | 7981 | NS | 1 | -34.315 | 29.101 | 0.422 | -33.551 | 28.089 | 0.658 | 1.035 | 28.658 | 24.242 | 2.14 | 32.837 | 37.898 | 0.116 | 261.777 | 3.693 | 0.116 | 219.581 | 3.305 | 0.116 | 0.181 | 0.0 | 0.116 | 0.166 | 0.0 |

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

- Normal
- Deviations
- Alarming
- High Errors

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|---------|--------|-------|---------|--------|-------|---------|--------|--------|---------|--------|--------|-------|---------|--------|-------|---------|--------|-------|--------|-------|-------|---------|-------|
| 34 | 7980 | 7981 | NS | 1 | -34.315 | 29.101 | 0.421 | -33.26 | 28.089 | 0.658 | 1.035 | 28.658 | 24.255 | 2.14 | 32.837 | 37.948 | 0.116 | 261.777 | 3.711 | 0.116 | 205.351 | 3.322 | 0.116 | 0.181 | 0.0 | 0.116 | 0.166 | 0.0 |
| 35 | 7980 | 7981 | SN | 1 | -34.996 | 27.933 | 0.242 | -34.764 | 28.027 | 0.395 | -14.039 | 29.888 | 19.79 | -0.787 | 30.75 | 20.788 | 0.116 | 306.266 | 5.846 | 0.116 | 290.261 | 5.393 | 0.116 | 2.546 | 0.003 | 0.116 | 0.218 | 0.0 |
| 36 | 7981 | 7982 | NS | 1 | -34.126 | 27.554 | 0.318 | -34.083 | 26.066 | 0.346 | -21.573 | 30.464 | 15.671 | -32.214 | 32.859 | 28.849 | 0.116 | 250.685 | 2.948 | 0.116 | 248.188 | 2.655 | 0.116 | 14.006 | 0.118 | 0.116 | 161.432 | 0.083 |
| 37 | 7981 | 7982 | NS | 1 | -34.622 | 27.554 | 0.318 | -34.912 | 26.066 | 0.346 | -20.778 | 30.451 | 15.644 | -31.613 | 32.86 | 28.77 | 0.116 | 280.969 | 2.948 | 0.116 | 300.44 | 2.652 | 0.116 | 11.68 | 0.125 | 0.116 | 140.56 | 0.085 |
| 38 | 7986 | 7987 | SN | 1 | -33.826 | 24.655 | 1.485 | -34.308 | 25.478 | 2.522 | -19.19 | 28.612 | 16.289 | -22.241 | 30.786 | 27.126 | 0.116 | 233.96 | 4.347 | 0.116 | 261.371 | 3.105 | 0.116 | 8.13 | 0.012 | 0.116 | 16.321 | 0.034 |
| 39 | 7986 | 7987 | SN | 1 | -34.727 | 24.582 | 0.435 | -34.728 | 25.45 | 2.545 | -19.181 | 28.612 | 16.18 | -33.941 | 30.786 | 27.117 | 0.116 | 287.791 | 4.577 | 0.116 | 287.958 | 3.447 | 0.116 | 8.112 | 0.012 | 0.116 | 240.21 | 0.036 |
| 40 | 7986 | 7987 | SN | 1 | -34.917 | 24.661 | 1.487 | -34.728 | 25.478 | 2.519 | -19.181 | 28.612 | 16.285 | -21.618 | 30.786 | 27.111 | 0.116 | 300.687 | 4.342 | 0.116 | 287.958 | 3.108 | 0.116 | 8.112 | 0.012 | 0.116 | 14.151 | 0.034 |
| 41 | 7987 | 7988 | SN | 2 | -34.838 | 26.706 | 1.449 | -34.939 | 26.047 | 2.162 | -3.258 | 32.3 | 18.163 | -2.61 | 30.577 | 21.512 | 0.116 | 295.322 | 4.036 | 0.116 | 302.17 | 3.395 | 0.116 | 0.303 | 0.0 | 0.116 | 0.276 | 0.0 |
| 42 | 7987 | 7988 | SN | 1 | -34.838 | 26.706 | 1.449 | -34.939 | 26.047 | 2.162 | -3.258 | 32.3 | 18.163 | -2.61 | 30.577 | 21.512 | 0.116 | 295.322 | 4.036 | 0.116 | 302.17 | 3.395 | 0.116 | 0.303 | 0.0 | 0.116 | 0.276 | 0.0 |
| 43 | 7987 | 7988 | NS | 1 | -34.795 | 28.264 | 0.179 | -34.824 | 28.194 | 0.092 | 2.822 | 31.87 | 12.864 | 3.235 | 35.346 | 27.878 | 0.116 | 292.336 | 2.223 | 0.116 | 294.307 | 1.978 | 0.116 | 0.158 | 0.0 | 0.116 | 0.154 | 0.0 |
| 44 | 7987 | 7988 | SN | 1 | -34.838 | 26.706 | 1.453 | -34.939 | 26.047 | 2.221 | -3.258 | 32.3 | 18.163 | -2.61 | 30.577 | 21.512 | 0.116 | 295.322 | 4.155 | 0.116 | 302.17 | 3.489 | 0.116 | 0.303 | 0.0 | 0.116 | 0.276 | 0.0 |
| 45 | 7987 | 7988 | NS | 1 | -34.815 | 28.262 | 0.18 | -34.516 | 28.196 | 0.092 | 2.822 | 31.87 | 12.863 | 3.235 | 35.346 | 27.844 | 0.116 | 293.707 | 2.219 | 0.116 | 274.235 | 1.966 | 0.116 | 0.158 | 0.0 | 0.116 | 0.154 | 0.0 |
| 46 | 7988 | 7989 | SN | 2 | -34.966 | 26.058 | 0.371 | -34.707 | 26.895 | 0.574 | 5.656 | 30.233 | 22.349 | 6.802 | 31.18 | 27.824 | 0.116 | 304.18 | 4.362 | 0.116 | 286.456 | 3.538 | 0.116 | 0.137 | 0.0 | 0.116 | 0.132 | 0.0 |
| 47 | 7988 | 7989 | NS | 1 | -34.779 | 25.673 | 0.044 | -34.092 | 26.442 | 0.047 | -1.178 | 30.481 | 10.326 | -6.112 | 30.535 | 19.425 | 0.116 | 291.294 | 4.148 | 0.116 | 248.747 | 4.134 | 0.116 | 0.228 | 0.0 | 0.116 | 0.49 | 0.0 |
| 48 | 7988 | 7989 | SN | 1 | -34.806 | 26.058 | 0.371 | -34.536 | 26.895 | 0.574 | 5.656 | 30.233 | 22.349 | 6.802 | 31.18 | 27.82 | 0.116 | 293.085 | 4.361 | 0.116 | 275.481 | 3.537 | 0.116 | 0.137 | 0.0 | 0.116 | 0.132 | 0.0 |
| 49 | 7988 | 7989 | NS | 1 | -34.813 | 25.673 | 0.045 | -34.569 | 26.44 | 0.047 | -1.178 | 30.478 | 10.334 | -6.112 | 30.535 | 19.428 | 0.116 | 293.659 | 4.137 | 0.116 | 277.529 | 4.144 | 0.116 | 0.228 | 0.0 | 0.116 | 0.49 | 0.0 |
| 50 | 7988 | 7989 | SN | 1 | -34.806 | 26.058 | 0.364 | -34.536 | 26.895 | 0.57 | 5.656 | 30.233 | 22.349 | 6.802 | 31.18 | 27.82 | 0.116 | 293.085 | 4.28 | 0.116 | 275.481 | 3.482 | 0.116 | 0.137 | 0.0 | 0.116 | 0.132 | 0.0 |
| 51 | 7989 | 7990 | SN | 1 | -34.852 | 26.327 | 0.286 | -34.719 | 26.711 | 0.4 | 6.447 | 28.541 | 19.401 | 6.679 | 29.69 | 16.487 | 0.116 | 296.272 | 3.594 | 0.116 | 287.316 | 3.738 | 0.116 | 0.133 | 0.0 | 0.116 | 0.132 | 0.0 |
| 52 | 7989 | 7990 | SN | 1 | -34.24 | 26.327 | 0.28 | -34.719 | 26.711 | 0.394 | 6.447 | 28.541 | 19.348 | 6.679 | 29.69 | 16.51 | 0.116 | 257.277 | 3.512 | 0.116 | 287.316 | 3.669 | 0.116 | 0.133 | 0.0 | 0.116 | 0.132 | 0.0 |
| 53 | 7989 | 7990 | NS | 1 | -34.951 | 25.959 | 0.029 | -34.79 | 27.238 | 0.031 | -3.261 | 29.604 | 12.893 | -5.004 | 30.076 | 23.03 | 0.116 | 303.086 | 10.084 | 0.116 | 292.058 | 10.007 | 0.116 | 0.303 | 0.0 | 0.116 | 0.402 | 0.0 |
| 54 | 7989 | 7990 | NS | 1 | -34.781 | 25.959 | 0.029 | -34.982 | 27.237 | 0.031 | -3.261 | 29.604 | 12.897 | -5.004 | 30.076 | 23.03 | 0.116 | 291.412 | 10.039 | 0.116 | 305.237 | 9.979 | 0.116 | 0.303 | 0.0 | 0.116 | 0.402 | 0.0 |
| 55 | 7990 | 7991 | NS | 1 | -34.75 | 21.584 | 0.0 | -34.984 | 24.055 | 0.002 | -24.514 | 28.804 | 6.104 | -24.116 | 32.002 | 12.364 | 0.116 | 289.376 | 4.76 | 0.116 | 305.306 | 4.639 | 0.116 | 27.483 | 0.028 | 0.116 | 25.09 | 0.027 |
| 56 | 7990 | 7991 | SN | 1 | -34.824 | 26.117 | 0.406 | -34.71 | 26.473 | 0.487 | 7.014 | 28.75 | 19.997 | 7.567 | 29.042 | 20.918 | 0.116 | 294.335 | 3.261 | 0.116 | 286.696 | 2.576 | 0.116 | 0.131 | 0.0 | 0.116 | 0.129 | 0.0 |
| 57 | 7991 | 7992 | SN | 1 | -34.837 | 26.224 | 0.004 | -34.891 | 27.698 | 0.008 | 5.664 | 28.253 | 18.546 | 8.548 | 29.053 | 27.788 | 0.116 | 295.224 | 2.555 | 0.116 | 298.862 | 2.122 | 0.116 | 0.137 | 0.0 | 0.116 | 0.126 | 0.0 |
| 58 | 7991 | 7992 | NS | 1 | -34.346 | 24.817 | 0.002 | -33.913 | 22.133 | 0.001 | -3.242 | 28.686 | 7.819 | -5.756 | 29.822 | 14.183 | 0.116 | 263.69 | 2.607 | 0.116 | 238.704 | 2.451 | 0.116 | 0.303 | 0.0 | 0.116 | 0.46 | 0.0 |
| 59 | 7992 | 7993 | SN | 1 | -34.08 | 21.723 | 0.0 | -33.831 | 22.189 | 0.003 | 6.488 | 30.834 | 14.922 | 9.063 | 29.082 | 21.028 | 0.116 | 248.046 | 2.876 | 0.116 | 234.214 | 2.401 | 0.116 | 0.133 | 0.0 | 0.116 | 0.125 | 0.0 |
| 60 | 7992 | 7993 | SN | 1 | -34.08 | 21.756 | 0.0 | -33.831 | 23.802 | 0.006 | 6.488 | 30.834 | 14.156 | 9.063 | 29.082 | 21.002 | 0.116 | 248.046 | 2.732 | 0.116 | 234.214 | 2.223 | 0.116 | 0.133 | 0.0 | 0.116 | 0.125 | 0.0 |
| 61 | 7992 | 7993 | NS | 1 | -34.922 | 26.77 | 0.281 | -33.344 | 26.807 | 0.5 | -3.759 | 29.944 | 12.769 | -4.074 | 30.611 | 18.701 | 0.116 | 301.016 | 2.749 | 0.116 | 209.33 | 2.72 | 0.116 | 0.328 | 0.0 | 0.116 | 0.345 | 0.0 |
| 62 | 7993 | 7994 | SN | 1 | -34.583 | 24.916 | 0.208 | -34.625 | 26.855 | 0.264 | 2.774 | 33.904 | 12.916 | 4.174 | 33.83 | 16.165 | 0.116 | 278.425 | 3.816 | 0.116 | 281.139 | 2.734 | 0.116 | 0.158 | 0.0 | 0.116 | 0.146 | 0.0 |
| 63 | 7993 | 7994 | NS | 1 | -34.847 | 26.03 | 0.606 | -34.917 | 27.146 | 0.739 | 5.559 | 31.443 | 12.369 | -3.712 | 30.069 | 21.786 | 0.116 | 295.908 | 2.637 | 0.116 | 300.667 | 2.565 | 0.116 | 0.138 | 0.0 | 0.116 | 0.325 | 0.0 |
| 64 | 7994 | 7995 | NS | 1 | -34.866 | 25.854 | 0.417 | -34.883 | 26.678 | 0.653 | -9.735 | 28.847 | 20.898 | 0.266 | 30.173 | 37.536 | 0.116 | 297.225 | 3.598 | 0.116 | 298.34 | 3.461 | 0.116 | 1.003 | 0.002 | 0.116 | 0.195 | 0.0 |
| 65 | 7994 | 7995 | SN | 1 | -34.567 | 27.435 | 0.152 | -34.456 | 29.271 | 0.195 | -7.128 | 29.565 | 21.026 | -4.914 | 30.657 | 24.02 | 0.116 | 277.447 | 3.215 | 0.116 | 270.473 | 2.812 | 0.116 | 0.594 | 0.0 | 0.116 | 0.396 | 0.0 |
| 66 | 7994 | 7995 | NS | 1 | -34.922 | 25.854 | 0.418 | -34.869 | 26.678 | 0.654 | -9.888 | 28.847 | 20.905 | 0.266 | 30.173 | 37.537 | 0.116 | 300.996 | 3.603 | 0.116 | 297.445 | 3.46 | 0.116 | 1.036 | 0.002 | 0.116 | 0.195 | 0.0 |
| 67 | 7995 | 7996 | NS | 1 | -34.945 | 27.34 | 0.534 | -34.861 | 26.98 | 0.681 | -7.527 | 30.12 | 14.663 | -4.689 | 29.983 | 29.103 | 0.116 | 302.695 | 3.017 | 0.116 | 296.837 | 3.033 | 0.116 | 0.642 | 0.0 | 0.116 | 0.381 | 0.0 |
| 68 | 7995 | 7996 | SN | 1 | -34.414 | 28.563 | 0.168 | -33.494 | 29.666 | 0.381 | -1.327 | 29.469 | 18.879 | -0.541 | 32.088 | 20.046 | 0.116 | 267.819 | 3.396 | 0.116 | 216.704 | 2.179 | 0.116 | 0.233 | 0.0 | 0.116 | 0.212 | 0.0 |
| 69 | 7995 | 7996 | NS | 1 | -34.903 | 27.337 | 0.534 | -34.818 | 26.98 | 0.681 | -7.526 | 30.119 | 14.623 | -4.695 | 29.984 | 29.06 | 0.116 | 299.797 | 3.025 | 0.116 | 293.975 | 3.039 | 0.116 | 0.641 | 0.0 | 0.116 | 0.382 | 0.0 |
| 70 | 7996 | 7997 | NS | 1 | -34.54 | 27.317 | 0.594 | -34.668 | 25.263 | 0.613 | 5.152 | 28.699 | 19.348 | 6.334 | 33.016 | 31.916 | 0.116 | 275.691 | 4.987 | 0.116 | 283.984 | 4.874 | 0.116 | 0.14 | 0.0 | 0.116 | 0.134 | 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 | 7972 | 7973 | SN | 1 | 57.435 | 58.12 | 0.0 | 0.0 | 298.88 | 3.924 | 1193.824 | 1258.376 | 37.059 | -93.158 | -91.745 | 0.0 |
| 2 | 7972 | 7973 | SN | 1 | 57.435 | 58.123 | 0.0 | 0.0 | 298.88 | 3.912 | 1193.824 | 1258.376 | 37.088 | -92.899 | -91.745 | 0.0 |
| 3 | 7972 | 7973 | SN | 1 | 57.435 | 58.123 | 0.0 | 0.0 | 298.88 | 3.496 | 1193.824 | 1258.376 | 37.958 | -92.899 | -91.745 | 0.0 |
| 4 | 7972 | 7973 | NS | 1 | 57.636 | 58.254 | 0.0 | 0.0 | 290.028 | 3.676 | 1236.36 | 1263.552 | 0.0 | -93.632 | -92.11 | 0.0 |
| 5 | 7973 | 7974 | SN | 1 | 57.436 | 58.123 | 0.0 | 0.0 | 298.174 | 3.341 | 1193.616 | 1258.584 | 37.109 | -92.768 | -91.791 | 0.0 |
| 6 | 7973 | 7974 | SN | 1 | 57.436 | 58.123 | 0.0 | 0.0 | 298.174 | 3.716 | 1193.616 | 1258.584 | 36.638 | -92.768 | -91.791 | 0.0 |
| 7 | 7973 | 7974 | SN | 2 | 57.436 | 58.123 | 0.0 | 0.0 | 298.174 | 3.341 | 1193.616 | 1258.584 | 37.109 | -92.768 | -91.791 | 0.0 |
| 8 | 7973 | 7974 | NS | 1 | 57.644 | 58.256 | 0.0 | 0.0 | 285.523 | 3.477 | 1236.68 | 1263.84 | 0.0 | -93.633 | -92.086 | 0.0 |
| 9 | 7973 | 7974 | NS | 1 | 57.644 | 58.255 | 0.0 | 0.0 | 285.512 | 3.479 | 1236.688 | 1263.832 | 0.0 | -93.633 | -92.086 | 0.0 |
| 10 | 7974 | 7975 | NS | 1 | 57.644 | 58.255 | 0.0 | 0.0 | 299.128 | 3.399 | 1236.288 | 1264.528 | 0.0 | -93.634 | -92.083 | 0.0 |
| 11 | 7974 | 7975 | SN | 2 | 57.435 | 58.142 | 0.0 | 0.0 | 299.156 | 3.64 | 1193.496 | 1258.584 | 37.469 | -92.901 | -91.794 | 0.0 |
| 12 | 7974 | 7975 | NS | 1 | 57.644 | 58.255 | 0.0 | 0.0 | 299.128 | 3.395 | 1236.288 | 1264.48 | 0.0 | -93.634 | -92.083 | 0.0 |
| 13 | 7974 | 7975 | SN | 1 | 57.435 | 58.142 | 0.0 | 0.0 | 299.156 | 3.64 | 1193.496 | 1258.584 | 37.469 | -92.901 | -91.794 | 0.0 |
| 14 | 7974 | 7975 | SN | 1 | 57.435 | 58.142 | 0.0 | 0.0 | 299.156 | 3.264 | 1193.496 | 1258.584 | 37.993 | -92.901 | -91.794 | 0.0 |
| 15 | 7975 | 7976 | SN | 1 | 57.432 | 58.135 | 0.0 | 0.003 | 297.021 | 3.225 | 1194.256 | 1258.376 | 37.978 | -92.92 | -91.783 | 0.0 |
| 16 | 7975 | 7976 | SN | 1 | 57.443 | 58.135 | 0.0 | 0.0 | 299.911 | 3.639 | 1194.248 | 1258.384 | 37.256 | -92.92 | -91.783 | 0.0 |
| 17 | 7975 | 7976 | SN | 2 | 57.432 | 58.135 | 0.0 | 0.0 | 299.911 | 3.638 | 1194.256 | 1258.376 | 37.247 | -92.92 | -91.783 | 0.0 |
| 18 | 7975 | 7976 | NS | 1 | 57.654 | 58.256 | 0.0 | 0.0 | 297.771 | 3.502 | 1236.784 | 1263.912 | 0.0 | -93.634 | -92.107 | 0.0 |
| 19 | 7975 | 7976 | NS | 1 | 57.654 | 58.256 | 0.0 | 0.0 | 297.771 | 3.498 | 1236.784 | 1264.312 | 0.0 | -93.634 | -92.107 | 0.0 |
| 20 | 7976 | 7977 | NS | 2 | 57.652 | 58.257 | 0.0 | 0.0 | 297.876 | 3.758 | 1237.632 | 1264.296 | 0.0 | -93.055 | -92.118 | 0.0 |
| 21 | 7976 | 7977 | SN | 1 | 57.435 | 58.14 | 0.0 | 0.0 | 297.314 | 3.599 | 1193.768 | 1258.176 | 37.305 | -92.938 | -91.793 | 0.0 |
| 22 | 7976 | 7977 | SN | 1 | 57.435 | 58.14 | 0.0 | 0.0 | 297.314 | 3.595 | 1193.768 | 1258.176 | 37.331 | -92.938 | -91.793 | 0.0 |
| 23 | 7976 | 7977 | NS | 1 | 57.65 | 58.258 | 0.0 | 0.0 | 297.744 | 3.759 | 1237.584 | 1264.224 | 0.0 | -93.055 | -92.118 | 0.0 |
| 24 | 7977 | 7978 | NS | 1 | 57.643 | 58.284 | 0.0 | 0.0 | 299.564 | 3.599 | 1236.824 | 1263.792 | 0.0 | -93.257 | -92.126 | 0.0 |
| 25 | 7977 | 7978 | SN | 1 | 57.438 | 58.143 | 0.0 | 0.0 | 295.014 | 3.682 | 1194.568 | 1257.976 | 37.563 | -92.903 | -91.792 | 0.0 |
| 26 | 7977 | 7978 | SN | 1 | 57.438 | 58.143 | 0.0 | 0.0 | 295.014 | 3.686 | 1193.6 | 1257.976 | 37.495 | -92.903 | -91.792 | 0.0 |
| 27 | 7978 | 7979 | NS | 1 | 57.639 | 58.29 | 0.0 | 0.0 | 295.422 | 3.512 | 1236.864 | 1263.096 | 0.0 | -93.636 | -92.129 | 0.0 |
| 28 | 7978 | 7979 | SN | 1 | 57.436 | 58.135 | 0.0 | 0.0 | 298.814 | 3.767 | 1194.776 | 1257.968 | 34.164 | -93.067 | -91.766 | 0.0 |
| 29 | 7978 | 7979 | SN | 1 | 57.447 | 58.135 | 0.0 | 0.0 | 298.814 | 3.771 | 1194.776 | 1257.968 | 34.14 | -92.858 | -91.766 | 0.0 |
| 30 | 7979 | 7980 | NS | 1 | 57.67 | 58.259 | 0.0 | 0.0 | 298.736 | 3.637 | 1236.2 | 1263.464 | 0.0 | -93.637 | -92.123 | 0.0 |
| 31 | 7979 | 7980 | SN | 1 | 57.439 | 58.131 | 0.0 | 0.0 | 297.689 | 3.696 | 1194.672 | 1258.072 | 33.488 | -93.043 | -91.785 | 0.0 |
| 32 | 7980 | 7981 | SN | 2 | 57.447 | 58.122 | 0.0 | 0.0 | 296.569 | 3.659 | 1194.64 | 1257.96 | 35.364 | -93.07 | -91.791 | 0.0 |
| 33 | 7980 | 7981 | NS | 1 | 57.641 | 58.257 | 0.0 | 0.0 | 298.213 | 3.879 | 1237.328 | 1263.08 | 0.0 | -93.637 | -92.089 | 0.0 |
| 34 | 7980 | 7981 | NS | 1 | 57.641 | 58.257 | 0.0 | 0.0 | 298.213 | 3.875 | 1236.816 | 1263.08 | 0.0 | -93.637 | -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 |

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|  Normal |  Deviations |
|  Alarming |  High Errors |

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|----|------|------|----|---|--------|--------|-----|-------|---------|-------|----------|----------|--------|---------|---------|-----|
| 35 | 7980 | 7981 | SN | 1 | 57.447 | 58.122 | 0.0 | 0.0 | 296.569 | 3.659 | 1194.64 | 1257.96 | 35.364 | -93.07 | -91.791 | 0.0 |
| 36 | 7981 | 7982 | NS | 1 | 57.675 | 58.258 | 0.0 | 0.0 | 296.983 | 3.583 | 1236.664 | 1263.552 | 0.0 | -93.641 | -92.099 | 0.0 |
| 37 | 7981 | 7982 | NS | 1 | 57.675 | 58.258 | 0.0 | 0.0 | 296.983 | 3.579 | 1236.632 | 1263.44 | 0.0 | -93.641 | -92.099 | 0.0 |
| 38 | 7986 | 7987 | SN | 1 | 57.463 | 58.143 | 0.0 | 0.0 | 295.477 | 3.932 | 1195.296 | 1257.48 | 37.327 | -92.913 | -91.776 | 0.0 |
| 39 | 7986 | 7987 | SN | 1 | 57.463 | 58.145 | 0.0 | 0.0 | 295.477 | 3.175 | 1195.296 | 1257.48 | 38.864 | -92.913 | -91.776 | 0.0 |
| 40 | 7986 | 7987 | SN | 1 | 57.463 | 58.145 | 0.0 | 0.0 | 295.477 | 3.904 | 1195.296 | 1257.48 | 37.37 | -92.913 | -91.776 | 0.0 |
| 41 | 7987 | 7988 | SN | 2 | 57.437 | 58.121 | 0.0 | 0.0 | 294.628 | 3.775 | 1194.248 | 1257.408 | 35.589 | -92.864 | -91.776 | 0.0 |
| 42 | 7987 | 7988 | SN | 1 | 57.437 | 58.121 | 0.0 | 0.0 | 294.628 | 3.775 | 1194.248 | 1257.408 | 35.589 | -92.864 | -91.776 | 0.0 |
| 43 | 7987 | 7988 | NS | 1 | 57.673 | 58.257 | 0.0 | 0.0 | 296.111 | 3.471 | 1236.456 | 1262.424 | 0.0 | -93.643 | -92.111 | 0.0 |
| 44 | 7987 | 7988 | SN | 1 | 57.437 | 58.121 | 0.0 | 0.003 | 294.628 | 3.388 | 1194.248 | 1257.408 | 36.2 | -92.864 | -91.776 | 0.0 |
| 45 | 7987 | 7988 | NS | 1 | 57.673 | 58.257 | 0.0 | 0.0 | 296.111 | 3.473 | 1237.04 | 1262.424 | 0.0 | -93.643 | -92.111 | 0.0 |
| 46 | 7988 | 7989 | SN | 2 | 57.437 | 58.112 | 0.0 | 0.0 | 294.926 | 3.244 | 1194.096 | 1257.536 | 36.394 | -92.779 | -91.797 | 0.0 |
| 47 | 7988 | 7989 | NS | 1 | 57.672 | 58.258 | 0.0 | 0.0 | 296.26 | 3.533 | 1236.36 | 1262.968 | 0.0 | -93.642 | -92.072 | 0.0 |
| 48 | 7988 | 7989 | SN | 1 | 57.437 | 58.113 | 0.0 | 0.0 | 294.882 | 3.245 | 1194.088 | 1257.552 | 36.401 | -92.779 | -91.797 | 0.0 |
| 49 | 7988 | 7989 | NS | 1 | 57.672 | 58.258 | 0.0 | 0.0 | 296.26 | 3.536 | 1236.528 | 1262.68 | 0.0 | -93.642 | -92.072 | 0.0 |
| 50 | 7988 | 7989 | SN | 1 | 57.437 | 58.113 | 0.0 | 0.0 | 294.882 | 3.627 | 1194.088 | 1257.552 | 35.926 | -92.779 | -91.797 | 0.0 |
| 51 | 7989 | 7990 | SN | 1 | 57.432 | 58.11 | 0.0 | 0.0 | 295.659 | 3.226 | 1194.792 | 1257.352 | 37.22 | -92.826 | -91.795 | 0.0 |
| 52 | 7989 | 7990 | SN | 1 | 57.432 | 58.11 | 0.0 | 0.0 | 295.659 | 3.635 | 1194.792 | 1257.352 | 36.592 | -92.828 | -91.795 | 0.0 |
| 53 | 7989 | 7990 | NS | 1 | 57.675 | 58.259 | 0.0 | 0.0 | 296.117 | 3.537 | 1236.496 | 1262.6 | 0.0 | -93.643 | -92.125 | 0.0 |
| 54 | 7989 | 7990 | NS | 1 | 57.675 | 58.259 | 0.0 | 0.0 | 296.117 | 3.54 | 1236.424 | 1262.6 | 0.0 | -93.643 | -92.125 | 0.0 |
| 55 | 7990 | 7991 | NS | 1 | 57.676 | 58.267 | 0.0 | 0.0 | 296.779 | 3.591 | 1237.096 | 1263.0 | 0.0 | -93.038 | -92.099 | 0.0 |
| 56 | 7990 | 7991 | SN | 1 | 57.416 | 58.143 | 0.0 | 0.0 | 293.955 | 3.634 | 1194.872 | 1257.144 | 36.751 | -92.913 | -91.797 | 0.0 |
| 57 | 7991 | 7992 | SN | 1 | 57.447 | 58.135 | 0.0 | 0.003 | 299.531 | 3.614 | 1194.712 | 1256.936 | 35.766 | -92.909 | -91.798 | 0.0 |
| 58 | 7991 | 7992 | NS | 1 | 57.676 | 58.286 | 0.0 | 0.0 | 299.464 | 3.608 | 1237.112 | 1262.808 | 0.0 | -93.643 | -92.115 | 0.0 |
| 59 | 7992 | 7993 | SN | 1 | 57.446 | 58.119 | 0.0 | 0.0 | 294.815 | 2.864 | 1194.656 | 1256.84 | 37.137 | -92.885 | -91.785 | 0.0 |
| 60 | 7992 | 7993 | SN | 1 | 57.446 | 58.119 | 0.0 | 0.0 | 294.815 | 3.749 | 1194.656 | 1256.84 | 35.178 | -92.885 | -91.785 | 0.0 |
| 61 | 7992 | 7993 | NS | 1 | 57.668 | 58.29 | 0.0 | 0.0 | 294.154 | 3.726 | 1236.424 | 1261.952 | 0.0 | -93.037 | -92.128 | 0.0 |
| 62 | 7993 | 7994 | SN | 1 | 57.433 | 58.13 | 0.0 | 0.0 | 293.194 | 3.804 | 1195.048 | 1256.92 | 32.33 | -92.87 | -91.792 | 0.0 |
| 63 | 7993 | 7994 | NS | 1 | 57.633 | 58.278 | 0.0 | 0.0 | 294.562 | 3.554 | 1236.504 | 1262.056 | 0.0 | -93.645 | -92.128 | 0.0 |
| 64 | 7994 | 7995 | NS | 1 | 57.634 | 58.26 | 0.0 | 0.0 | 296.194 | 3.602 | 1236.632 | 1261.816 | 0.0 | -93.647 | -92.086 | 0.0 |
| 65 | 7994 | 7995 | SN | 1 | 57.447 | 58.12 | 0.0 | 0.0 | 293.332 | 3.703 | 1195.136 | 1256.888 | 33.49 | -92.877 | -91.774 | 0.0 |
| 66 | 7994 | 7995 | NS | 1 | 57.635 | 58.26 | 0.0 | 0.0 | 294.584 | 3.606 | 1236.8 | 1261.832 | 0.0 | -93.647 | -92.086 | 0.0 |
| 67 | 7995 | 7996 | NS | 1 | 57.678 | 58.26 | 0.0 | 0.0 | 294.672 | 3.647 | 1236.296 | 1262.2 | 0.0 | -93.648 | -92.099 | 0.0 |
| 68 | 7995 | 7996 | SN | 1 | 57.43 | 58.108 | 0.0 | 0.0 | 298.615 | 3.667 | 1194.76 | 1256.744 | 34.493 | -92.859 | -91.804 | 0.0 |
| 69 | 7995 | 7996 | NS | 1 | 57.655 | 58.262 | 0.0 | 0.0 | 294.644 | 3.645 | 1236.208 | 1261.6 | 0.0 | -93.648 | -92.099 | 0.0 |
| 70 | 7996 | 7997 | NS | 1 | 57.675 | 58.26 | 0.0 | 0.0 | 294.683 | 3.529 | 1236.192 | 1261.768 | 0.0 | -93.205 | -92.126 | 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 |

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|  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 | 7972 | 7973 | SN | 1 | -34.453 | 20.405 | 0.0 | -34.14 | 21.276 | 0.0 | -9.99 | 23.524 | 0.152 | -16.874 | 24.429 | 0.171 | 0.086 | 206.581 | 2.699 | 0.086 | 192.232 | 2.303 | 0.086 | 0.805 | 0.0 | 0.086 | 3.671 | 0.002 |
| 2 | 7972 | 7973 | SN | 1 | -34.49 | 20.405 | 0.0 | -34.948 | 21.276 | 0.0 | -9.99 | 23.524 | 0.152 | -16.953 | 24.429 | 0.168 | 0.086 | 208.327 | 2.682 | 0.086 | 231.461 | 2.312 | 0.086 | 0.805 | 0.0 | 0.086 | 3.736 | 0.002 |
| 3 | 7972 | 7973 | SN | 1 | -34.49 | 20.405 | 0.0 | -34.948 | 21.276 | 0.0 | -9.99 | 23.524 | 0.152 | -16.89 | 24.429 | 0.168 | 0.086 | 208.327 | 2.802 | 0.086 | 231.461 | 2.435 | 0.086 | 0.805 | 0.0 | 0.086 | 3.777 | 0.002 |
| 4 | 7972 | 7973 | NS | 1 | -34.403 | 21.267 | 0.0 | -34.782 | 21.87 | 0.0 | 0.245 | 24.791 | 0.056 | 0.429 | 23.874 | 0.27 | 0.086 | 204.178 | 2.547 | 0.086 | 222.84 | 3.142 | 0.086 | 0.145 | 0.0 | 0.086 | 0.143 | 0.0 |
| 5 | 7973 | 7974 | SN | 1 | -34.772 | 20.034 | 0.0 | -34.337 | 21.06 | 0.0 | 2.021 | 23.314 | 0.102 | 1.456 | 23.626 | 0.16 | 0.086 | 222.274 | 3.942 | 0.086 | 201.085 | 3.224 | 0.086 | 0.124 | 0.0 | 0.086 | 0.13 | 0.0 |
| 6 | 7973 | 7974 | SN | 1 | -34.772 | 20.034 | 0.0 | -34.337 | 21.06 | 0.0 | 2.021 | 23.314 | 0.102 | 1.456 | 23.626 | 0.16 | 0.086 | 222.274 | 3.856 | 0.086 | 201.085 | 3.169 | 0.086 | 0.124 | 0.0 | 0.086 | 0.13 | 0.0 |
| 7 | 7973 | 7974 | SN | 2 | -34.772 | 20.034 | 0.0 | -34.337 | 21.06 | 0.0 | 2.021 | 23.314 | 0.102 | 1.456 | 23.626 | 0.16 | 0.086 | 222.274 | 3.942 | 0.086 | 201.085 | 3.224 | 0.086 | 0.124 | 0.0 | 0.086 | 0.13 | 0.0 |
| 8 | 7973 | 7974 | NS | 1 | -34.917 | 21.954 | 0.0 | -34.73 | 21.712 | 0.0 | -8.304 | 28.015 | 0.043 | -8.304 | 23.821 | 0.155 | 0.086 | 229.834 | 5.865 | 0.086 | 220.163 | 6.239 | 0.086 | 0.568 | 0.0 | 0.086 | 0.568 | 0.0 |
| 9 | 7973 | 7974 | NS | 1 | -34.812 | 21.952 | 0.0 | -34.728 | 21.714 | 0.0 | -8.302 | 28.015 | 0.043 | -8.304 | 23.821 | 0.155 | 0.086 | 224.354 | 5.86 | 0.086 | 220.081 | 6.237 | 0.086 | 0.568 | 0.0 | 0.086 | 0.568 | 0.0 |
| 10 | 7974 | 7975 | NS | 1 | -34.747 | 18.83 | 0.0 | -34.767 | 20.025 | 0.0 | -6.731 | 22.211 | 0.004 | -24.43 | 23.338 | 0.108 | 0.086 | 220.984 | 7.186 | 0.086 | 222.007 | 7.844 | 0.086 | 0.416 | 0.0 | 0.086 | 20.602 | 0.036 |
| 11 | 7974 | 7975 | SN | 2 | -34.9 | 19.957 | 0.0 | -34.966 | 20.362 | 0.0 | 1.812 | 23.13 | 0.175 | 2.448 | 23.249 | 0.281 | 0.086 | 228.968 | 3.928 | 0.086 | 232.486 | 3.191 | 0.086 | 0.126 | 0.0 | 0.086 | 0.12 | 0.0 |
| 12 | 7974 | 7975 | NS | 1 | -34.784 | 18.832 | 0.0 | -34.9 | 20.026 | 0.0 | -6.731 | 22.211 | 0.004 | -24.43 | 23.338 | 0.108 | 0.086 | 222.888 | 7.202 | 0.086 | 228.919 | 7.843 | 0.086 | 0.416 | 0.0 | 0.086 | 20.602 | 0.036 |
| 13 | 7974 | 7975 | SN | 1 | -34.9 | 19.957 | 0.0 | -34.966 | 20.362 | 0.0 | 1.812 | 23.13 | 0.175 | 2.448 | 23.249 | 0.281 | 0.086 | 228.968 | 3.928 | 0.086 | 232.486 | 3.191 | 0.086 | 0.126 | 0.0 | 0.086 | 0.12 | 0.0 |
| 14 | 7974 | 7975 | SN | 1 | -34.9 | 19.957 | 0.0 | -34.966 | 20.362 | 0.0 | 1.812 | 23.13 | 0.175 | 2.448 | 23.249 | 0.281 | 0.086 | 228.968 | 4.004 | 0.086 | 232.486 | 3.23 | 0.086 | 0.126 | 0.0 | 0.086 | 0.12 | 0.0 |
| 15 | 7975 | 7976 | SN | 1 | -34.674 | 19.895 | 0.0 | -34.883 | 20.385 | 0.0 | 1.089 | 23.052 | 0.515 | 1.467 | 23.513 | 0.856 | 0.086 | 217.317 | 3.468 | 0.086 | 228.028 | 3.679 | 0.086 | 0.134 | 0.0 | 0.086 | 0.13 | 0.0 |
| 16 | 7975 | 7976 | SN | 1 | -34.674 | 19.895 | 0.0 | -34.883 | 20.385 | 0.0 | 1.089 | 23.052 | 0.515 | 1.467 | 23.513 | 0.825 | 0.086 | 217.317 | 3.388 | 0.086 | 228.028 | 3.619 | 0.086 | 0.134 | 0.0 | 0.086 | 0.13 | 0.0 |
| 17 | 7975 | 7976 | SN | 2 | -34.674 | 19.895 | 0.0 | -34.883 | 20.385 | 0.0 | 1.089 | 23.052 | 0.515 | 1.467 | 23.513 | 0.825 | 0.086 | 217.317 | 3.389 | 0.086 | 228.028 | 3.617 | 0.086 | 0.134 | 0.0 | 0.086 | 0.13 | 0.0 |
| 18 | 7975 | 7976 | NS | 1 | -34.948 | 19.763 | 0.0 | -34.784 | 20.401 | 0.0 | -22.055 | 23.133 | 0.043 | -27.273 | 23.426 | 0.097 | 0.086 | 231.46 | 7.384 | 0.086 | 222.881 | 7.828 | 0.086 | 11.954 | 0.021 | 0.086 | 39.592 | 0.061 |
| 19 | 7975 | 7976 | NS | 1 | -34.665 | 19.765 | 0.0 | -34.85 | 20.401 | 0.0 | -22.055 | 23.134 | 0.043 | -27.273 | 23.426 | 0.097 | 0.086 | 216.879 | 7.392 | 0.086 | 226.322 | 7.841 | 0.086 | 11.954 | 0.021 | 0.086 | 39.592 | 0.06 |
| 20 | 7976 | 7977 | NS | 2 | -34.936 | 15.506 | 0.0 | -33.989 | 18.501 | 0.0 | -21.415 | 23.23 | 0.026 | -23.352 | 23.267 | 0.091 | 0.087 | 230.795 | 4.473 | 0.086 | 185.612 | 5.014 | 0.086 | 10.323 | 0.03 | 0.086 | 16.09 | 0.009 |
| 21 | 7976 | 7977 | SN | 1 | -34.583 | 20.09 | 0.0 | -34.903 | 20.602 | 0.0 | 0.933 | 22.916 | 0.161 | 2.216 | 22.993 | 0.622 | 0.086 | 212.835 | 2.736 | 0.086 | 229.142 | 2.4 | 0.086 | 0.136 | 0.0 | 0.086 | 0.122 | 0.0 |
| 22 | 7976 | 7977 | SN | 1 | -34.583 | 20.09 | 0.0 | -34.903 | 20.602 | 0.0 | 0.933 | 22.916 | 0.161 | 2.216 | 22.993 | 0.622 | 0.086 | 212.835 | 2.732 | 0.086 | 229.142 | 2.4 | 0.086 | 0.136 | 0.0 | 0.086 | 0.122 | 0.0 |
| 23 | 7976 | 7977 | NS | 1 | -34.809 | 15.506 | 0.0 | -34.003 | 18.501 | 0.0 | -21.413 | 23.23 | 0.026 | -23.333 | 23.267 | 0.091 | 0.087 | 224.18 | 4.475 | 0.086 | 186.205 | 5.016 | 0.086 | 10.318 | 0.03 | 0.086 | 16.02 | 0.009 |
| 24 | 7977 | 7978 | NS | 1 | -34.504 | 19.462 | 0.0 | -34.683 | 19.718 | 0.0 | -28.874 | 22.718 | 0.085 | -20.539 | 23.357 | 0.26 | 0.086 | 209.023 | 3.079 | 0.086 | 217.816 | 2.997 | 0.086 | 57.217 | 0.09 | 0.086 | 8.448 | 0.027 |
| 25 | 7977 | 7978 | SN | 1 | -34.792 | 17.353 | 0.0 | -33.989 | 17.814 | 0.0 | 0.915 | 22.979 | 0.086 | 3.797 | 22.652 | 0.026 | 0.087 | 223.301 | 2.343 | 0.086 | 185.597 | 2.155 | 0.086 | 0.136 | 0.0 | 0.086 | 0.11 | 0.0 |
| 26 | 7977 | 7978 | SN | 1 | -34.586 | 17.353 | 0.0 | -33.989 | 17.814 | 0.0 | 0.915 | 22.979 | 0.086 | 3.797 | 22.652 | 0.026 | 0.087 | 212.964 | 2.344 | 0.086 | 185.597 | 2.158 | 0.086 | 0.136 | 0.0 | 0.086 | 0.11 | 0.0 |
| 27 | 7978 | 7979 | NS | 1 | -34.739 | 20.441 | 0.0 | -34.117 | 20.523 | 0.0 | 3.416 | 23.027 | 0.33 | 2.615 | 26.216 | 0.693 | 0.086 | 220.62 | 2.094 | 0.086 | 191.211 | 1.999 | 0.086 | 0.113 | 0.0 | 0.086 | 0.119 | 0.0 |
| 28 | 7978 | 7979 | SN | 1 | -34.929 | 19.444 | 0.0 | -34.029 | 20.108 | 0.0 | 0.992 | 23.888 | 0.613 | -7.107 | 24.624 | 1.124 | 0.086 | 230.485 | 3.597 | 0.086 | 187.364 | 3.113 | 0.086 | 0.135 | 0.0 | 0.086 | 0.448 | 0.0 |
| 29 | 7978 | 7979 | SN | 1 | -34.929 | 19.444 | 0.0 | -34.782 | 20.108 | 0.0 | 0.992 | 23.888 | 0.615 | -7.107 | 24.624 | 1.126 | 0.086 | 230.485 | 3.595 | 0.086 | 222.826 | 3.118 | 0.086 | 0.135 | 0.0 | 0.086 | 0.448 | 0.0 |
| 30 | 7979 | 7980 | NS | 1 | -34.786 | 19.954 | 0.0 | -34.207 | 20.625 | 0.0 | -3.081 | 23.341 | 0.132 | -1.036 | 23.676 | 0.842 | 0.086 | 222.956 | 2.108 | 0.086 | 195.151 | 2.199 | 0.086 | 0.222 | 0.0 | 0.086 | 0.168 | 0.0 |
| 31 | 7979 | 7980 | SN | 1 | -32.351 | 20.885 | 0.0 | -33.672 | 20.962 | 0.0 | -7.892 | 23.801 | 0.521 | -7.954 | 24.287 | 1.113 | 0.086 | 127.32 | 1.914 | 0.086 | 172.567 | 1.486 | 0.086 | 0.523 | 0.0 | 0.086 | 0.529 | 0.0 |
| 32 | 7980 | 7981 | SN | 2 | -34.905 | 21.343 | 0.0 | -34.28 | 20.269 | 0.0 | -19.931 | 23.366 | 0.459 | -6.257 | 23.951 | 0.57 | 0.086 | 229.154 | 5.464 | 0.086 | 198.475 | 4.895 | 0.086 | 7.355 | 0.043 | 0.086 | 0.381 | 0.0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|-------|---------|-------|-------|---------|-------|-------|--------|-------|-------|--------|-------|
| 33 | 7980 | 7981 | NS | 1 | -34.98 | 21.191 | 0.0 | -34.369 | 21.225 | 0.0 | -3.963 | 22.443 | 0.102 | -5.925 | 24.143 | 1.973 | 0.086 | 233.216 | 2.917 | 0.086 | 202.642 | 3.166 | 0.086 | 0.255 | 0.0 | 0.086 | 0.358 | 0.0 |
| 34 | 7980 | 7981 | NS | 1 | -34.761 | 21.191 | 0.0 | -34.168 | 21.225 | 0.0 | -3.963 | 22.443 | 0.102 | -5.925 | 24.141 | 1.976 | 0.086 | 221.698 | 2.912 | 0.086 | 193.447 | 3.164 | 0.086 | 0.255 | 0.0 | 0.086 | 0.358 | 0.0 |
| 35 | 7980 | 7981 | SN | 1 | -34.905 | 21.343 | 0.0 | -34.28 | 20.269 | 0.0 | -19.931 | 23.366 | 0.459 | -6.257 | 23.951 | 0.57 | 0.086 | 229.154 | 5.464 | 0.086 | 198.475 | 4.895 | 0.086 | 7.355 | 0.043 | 0.086 | 0.381 | 0.0 |
| 36 | 7981 | 7982 | NS | 1 | -34.888 | 21.129 | 0.0 | -34.946 | 21.247 | 0.0 | -22.383 | 22.992 | 0.045 | -30.736 | 24.469 | 1.825 | 0.086 | 228.275 | 2.976 | 0.086 | 231.418 | 2.824 | 0.086 | 12.883 | 0.071 | 0.086 | 87.778 | 0.014 |
| 37 | 7981 | 7982 | NS | 1 | -34.676 | 21.129 | 0.0 | -34.998 | 21.247 | 0.0 | -22.589 | 22.992 | 0.045 | -30.726 | 24.468 | 1.812 | 0.086 | 217.421 | 2.976 | 0.086 | 234.157 | 2.824 | 0.086 | 13.509 | 0.068 | 0.086 | 87.612 | 0.014 |
| 38 | 7986 | 7987 | SN | 1 | -33.932 | 20.155 | 0.0 | -34.872 | 19.687 | 0.0 | -29.407 | 23.038 | 0.047 | -21.789 | 22.853 | 0.042 | 0.086 | 183.19 | 4.308 | 0.086 | 227.5 | 3.084 | 0.086 | 64.679 | 0.041 | 0.086 | 11.244 | 0.028 |
| 39 | 7986 | 7987 | SN | 1 | -34.767 | 20.155 | 0.0 | -34.671 | 19.689 | 0.0 | -28.543 | 23.038 | 0.047 | -21.265 | 22.853 | 0.042 | 0.086 | 222.008 | 4.487 | 0.086 | 217.186 | 3.425 | 0.086 | 53.015 | 0.041 | 0.086 | 9.974 | 0.03 |
| 40 | 7986 | 7987 | SN | 1 | -34.767 | 20.155 | 0.0 | -34.671 | 19.689 | 0.0 | -28.543 | 23.038 | 0.047 | -21.056 | 22.853 | 0.042 | 0.086 | 222.008 | 4.316 | 0.086 | 217.186 | 3.084 | 0.086 | 53.015 | 0.041 | 0.086 | 9.51 | 0.028 |
| 41 | 7987 | 7988 | SN | 2 | -34.789 | 19.822 | 0.0 | -34.804 | 19.921 | 0.0 | -29.431 | 23.499 | 0.102 | -23.095 | 24.171 | 0.178 | 0.086 | 228.794 | 5.179 | 0.086 | 223.928 | 4.51 | 0.086 | 65.04 | 0.007 | 0.086 | 15.167 | 0.019 |
| 42 | 7987 | 7988 | SN | 1 | -34.789 | 19.822 | 0.0 | -34.804 | 19.921 | 0.0 | -29.431 | 23.499 | 0.102 | -23.095 | 24.171 | 0.178 | 0.086 | 228.794 | 5.179 | 0.086 | 223.928 | 4.51 | 0.086 | 65.04 | 0.007 | 0.086 | 15.167 | 0.019 |
| 43 | 7987 | 7988 | NS | 1 | -34.711 | 21.943 | 0.0 | -34.502 | 23.01 | 0.003 | -4.992 | 23.331 | 0.025 | -2.688 | 23.741 | 0.176 | 0.086 | 219.207 | 2.169 | 0.086 | 208.913 | 2.303 | 0.086 | 0.303 | 0.0 | 0.086 | 0.209 | 0.0 |
| 44 | 7987 | 7988 | SN | 1 | -34.789 | 19.822 | 0.0 | -34.804 | 19.921 | 0.0 | -29.431 | 23.499 | 0.102 | -23.095 | 24.171 | 0.178 | 0.086 | 228.794 | 5.339 | 0.086 | 223.928 | 4.633 | 0.086 | 65.04 | 0.007 | 0.086 | 15.167 | 0.019 |
| 45 | 7987 | 7988 | NS | 1 | -34.187 | 21.943 | 0.0 | -33.808 | 23.01 | 0.003 | -4.992 | 23.331 | 0.025 | -2.688 | 23.741 | 0.178 | 0.086 | 194.258 | 2.169 | 0.086 | 178.049 | 2.293 | 0.086 | 0.303 | 0.0 | 0.086 | 0.209 | 0.0 |
| 46 | 7988 | 7989 | SN | 2 | -34.379 | 20.651 | 0.0 | -34.77 | 20.786 | 0.0 | 1.178 | 23.222 | 0.259 | 2.214 | 23.581 | 0.403 | 0.086 | 203.048 | 4.287 | 0.086 | 222.175 | 4.213 | 0.086 | 0.133 | 0.0 | 0.086 | 0.122 | 0.0 |
| 47 | 7988 | 7989 | NS | 1 | -34.722 | 19.168 | 0.0 | -34.216 | 20.391 | 0.0 | -9.238 | 23.049 | 0.03 | -25.839 | 23.193 | 0.159 | 0.086 | 219.731 | 3.419 | 0.086 | 195.593 | 3.794 | 0.086 | 0.688 | 0.0 | 0.086 | 28.472 | 0.062 |
| 48 | 7988 | 7989 | SN | 1 | -34.564 | 20.651 | 0.0 | -34.875 | 20.786 | 0.0 | 1.178 | 23.222 | 0.259 | 2.214 | 23.581 | 0.403 | 0.086 | 211.942 | 4.286 | 0.086 | 227.598 | 4.211 | 0.086 | 0.133 | 0.0 | 0.086 | 0.122 | 0.0 |
| 49 | 7988 | 7989 | NS | 1 | -34.629 | 19.168 | 0.0 | -34.843 | 20.391 | 0.0 | -9.238 | 23.049 | 0.03 | -25.839 | 23.193 | 0.159 | 0.086 | 215.07 | 3.412 | 0.086 | 238.049 | 3.802 | 0.086 | 0.688 | 0.0 | 0.086 | 28.472 | 0.062 |
| 50 | 7988 | 7989 | SN | 1 | -34.564 | 20.651 | 0.0 | -34.875 | 20.786 | 0.0 | 1.178 | 23.222 | 0.259 | 2.214 | 23.581 | 0.403 | 0.086 | 211.942 | 4.205 | 0.086 | 227.598 | 4.15 | 0.086 | 0.133 | 0.0 | 0.086 | 0.122 | 0.0 |
| 51 | 7989 | 7990 | SN | 1 | -34.224 | 20.671 | 0.0 | -34.872 | 20.5 | 0.0 | 0.99 | 23.679 | 0.252 | 2.544 | 23.267 | 0.585 | 0.086 | 195.964 | 3.446 | 0.086 | 227.484 | 3.338 | 0.086 | 0.135 | 0.0 | 0.086 | 0.12 | 0.0 |
| 52 | 7989 | 7990 | SN | 1 | -34.331 | 20.671 | 0.0 | -34.88 | 20.5 | 0.0 | 0.99 | 23.679 | 0.252 | 2.544 | 23.267 | 0.575 | 0.086 | 200.786 | 3.369 | 0.086 | 227.849 | 3.288 | 0.086 | 0.135 | 0.0 | 0.086 | 0.12 | 0.0 |
| 53 | 7989 | 7990 | NS | 1 | -34.994 | 19.414 | 0.0 | -34.738 | 20.357 | 0.0 | -28.146 | 22.347 | 0.021 | -29.0 | 23.413 | 0.106 | 0.086 | 233.981 | 8.821 | 0.086 | 220.529 | 9.315 | 0.086 | 48.384 | 0.2 | 0.086 | 58.9 | 0.142 |
| 54 | 7989 | 7990 | NS | 1 | -34.928 | 19.401 | 0.0 | -34.984 | 20.357 | 0.0 | -28.146 | 22.325 | 0.019 | -29.0 | 23.413 | 0.106 | 0.086 | 230.409 | 8.791 | 0.086 | 233.353 | 9.28 | 0.086 | 48.384 | 0.2 | 0.086 | 58.9 | 0.142 |
| 55 | 7990 | 7991 | NS | 1 | -34.877 | 20.063 | 0.0 | -34.716 | 15.371 | 0.0 | -11.653 | 23.307 | 0.092 | -21.987 | 23.202 | 0.152 | 0.086 | 227.684 | 3.588 | 0.087 | 219.448 | 4.004 | 0.086 | 1.149 | 0.003 | 0.086 | 11.767 | 0.002 |
| 56 | 7990 | 7991 | SN | 1 | -34.798 | 20.258 | 0.0 | -34.532 | 20.687 | 0.0 | 0.717 | 23.049 | 0.344 | 2.592 | 22.959 | 0.753 | 0.086 | 223.631 | 2.717 | 0.086 | 210.351 | 2.254 | 0.086 | 0.139 | 0.0 | 0.086 | 0.119 | 0.0 |
| 57 | 7991 | 7992 | SN | 1 | -34.963 | 18.79 | 0.0 | -34.883 | 19.109 | 0.0 | 0.214 | 22.721 | 0.105 | 2.568 | 23.448 | 0.316 | 0.086 | 232.269 | 2.555 | 0.086 | 228.043 | 2.211 | 0.086 | 0.146 | 0.0 | 0.086 | 0.119 | 0.0 |
| 58 | 7991 | 7992 | NS | 1 | -34.826 | 19.462 | 0.0 | -34.812 | 15.339 | 0.0 | -15.316 | 23.227 | 0.111 | -19.891 | 23.338 | 0.193 | 0.086 | 225.051 | 3.003 | 0.087 | 224.33 | 3.075 | 0.086 | 2.584 | 0.01 | 0.086 | 7.286 | 0.011 |
| 59 | 7992 | 7993 | SN | 1 | -34.837 | 19.81 | 0.0 | -34.942 | 19.383 | 0.0 | 0.449 | 23.767 | 0.458 | 7.373 | 23.736 | 0.673 | 0.086 | 225.602 | 2.977 | 0.086 | 231.171 | 2.939 | 0.086 | 0.142 | 0.0 | 0.086 | 0.096 | 0.0 |
| 60 | 7992 | 7993 | SN | 1 | -34.837 | 19.81 | 0.0 | -34.942 | 19.383 | 0.0 | 0.449 | 23.767 | 0.426 | 7.373 | 23.736 | 0.671 | 0.086 | 225.602 | 2.848 | 0.086 | 231.171 | 2.729 | 0.086 | 0.142 | 0.0 | 0.086 | 0.096 | 0.0 |
| 61 | 7992 | 7993 | NS | 1 | -34.953 | 20.022 | 0.0 | -34.801 | 20.56 | 0.0 | -22.338 | 22.995 | 0.152 | -15.125 | 23.317 | 0.507 | 0.086 | 231.717 | 2.453 | 0.086 | 223.781 | 2.543 | 0.086 | 12.751 | 0.085 | 0.086 | 2.474 | 0.013 |
| 62 | 7993 | 7994 | SN | 1 | -34.925 | 20.865 | 0.0 | -34.451 | 20.244 | 0.0 | -8.604 | 23.659 | 0.859 | -6.177 | 25.425 | 1.507 | 0.086 | 230.239 | 3.305 | 0.086 | 206.472 | 3.003 | 0.086 | 0.603 | 0.0 | 0.086 | 0.375 | 0.0 |
| 63 | 7993 | 7994 | NS | 1 | -34.028 | 20.52 | 0.0 | -34.388 | 20.962 | 0.0 | 0.624 | 22.6 | 0.113 | 1.267 | 23.745 | 0.586 | 0.086 | 187.272 | 2.238 | 0.086 | 203.467 | 2.335 | 0.086 | 0.14 | 0.0 | 0.086 | 0.132 | 0.0 |
| 64 | 7994 | 7995 | NS | 1 | -34.156 | 22.478 | 0.005 | -34.779 | 20.25 | 0.0 | 0.59 | 22.634 | 0.097 | 0.252 | 24.064 | 1.27 | 0.086 | 192.925 | 3.128 | 0.086 | 222.646 | 3.17 | 0.086 | 0.14 | 0.0 | 0.086 | 0.145 | 0.0 |
| 65 | 7994 | 7995 | SN | 1 | -34.216 | 21.454 | 0.0 | -34.999 | 21.287 | 0.0 | -25.346 | 23.527 | 0.447 | -14.662 | 24.194 | 0.844 | 0.086 | 195.581 | 2.888 | 0.086 | 234.219 | 2.357 | 0.086 | 25.423 | 0.087 | 0.086 | 2.231 | 0.01 |
| 66 | 7994 | 7995 | NS | 1 | -34.891 | 22.478 | 0.005 | -34.779 | 20.25 | 0.0 | 0.594 | 22.634 | 0.097 | 0.251 | 24.067 | 1.275 | 0.086 | 228.434 | 3.134 | 0.086 | 222.646 | 3.167 | 0.086 | 0.14 | 0.0 | 0.086 | 0.145 | 0.0 |
| 67 | 7995 | 7996 | NS | 1 | -34.399 | 22.121 | 0.001 | -34.475 | 20.195 | 0.0 | -3.776 | 22.932 | 0.129 | -5.609 | 24.234 | 2.191 | 0.086 | 203.964 | 3.524 | 0.086 | 207.552 | 3.376 | 0.086 | 0.247 | 0.0 | 0.086 | 0.338 | 0.0 |
| 68 | 7995 | 7996 | SN | 1 | -34.96 | 22.019 | 0.001 | -34.601 | 21.712 | 0.0 | -5.566 | 23.833 | 0.487 | -1.347 | 23.499 | 0.339 | 0.086 | 232.154 | 3.375 | 0.086 | 213.723 | 2.487 | 0.086 | 0.335 | 0.0 | 0.086 | 0.174 | 0.0 |
| 69 | 7995 | 7996 | NS | 1 | -34.841 | 22.118 | 0.001 | -34.841 | 20.195 | 0.0 | -3.768 | 22.932 | 0.129 | -5.609 | 24.234 | 2.184 | 0.086 | 225.901 | 3.529 | 0.086 | 225.896 | 3.37 | 0.086 | 0.247 | 0.0 | 0.086 | 0.338 | 0.0 |

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|---------|-------|-----|---------|--------|-----|-------|--------|-------|-------|--------|-------|-------|---------|-------|-------|---------|------|-------|------|-----|-------|-------|-----|
| 70 | 7996 | 7997 | NS | 1 | -34.778 | 21.36 | 0.0 | -34.874 | 21.213 | 0.0 | 1.462 | 22.687 | 0.085 | 1.125 | 24.396 | 1.709 | 0.086 | 222.618 | 4.894 | 0.086 | 227.563 | 4.88 | 0.086 | 0.13 | 0.0 | 0.086 | 0.134 | 0.0 |
|----|------|------|----|---|---------|-------|-----|---------|--------|-----|-------|--------|-------|-------|--------|-------|-------|---------|-------|-------|---------|------|-------|------|-----|-------|-------|-----|

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

 Normal

 Deviations

 Alarming

 High Errors