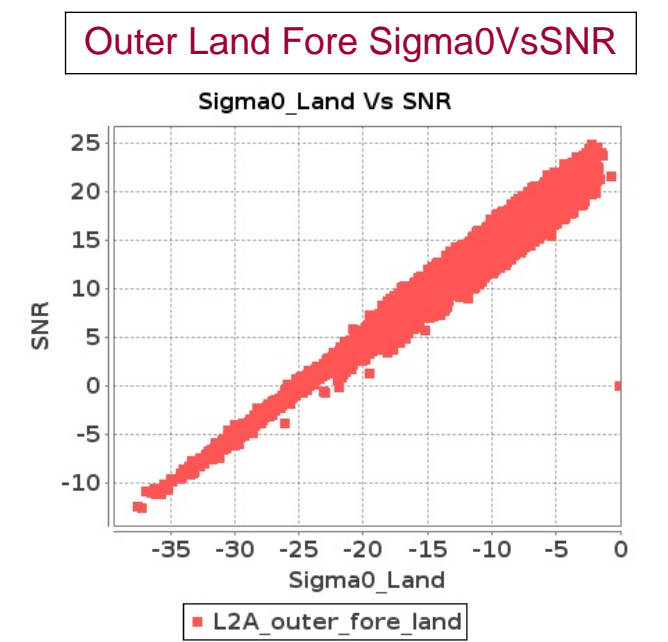
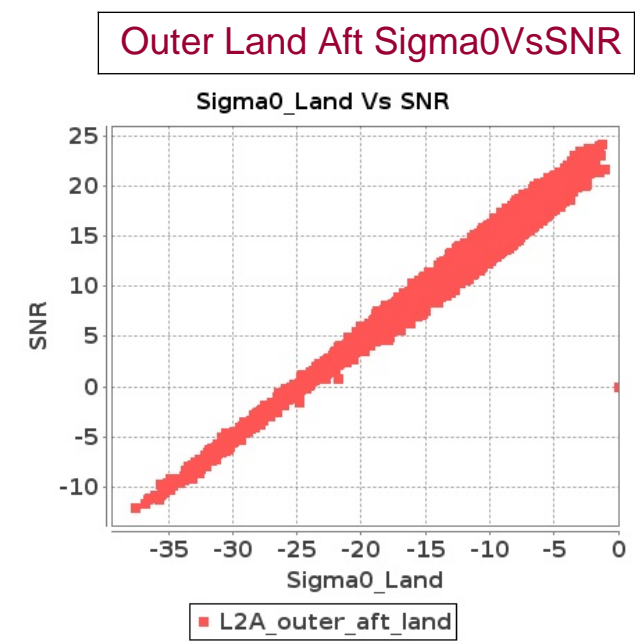
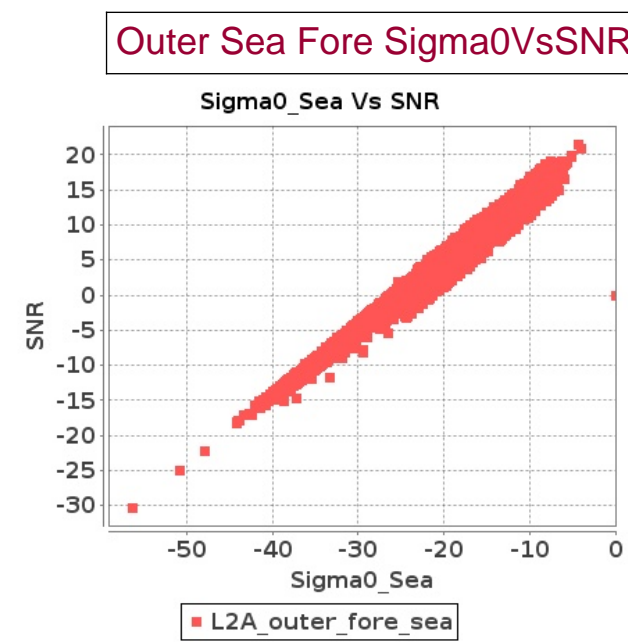
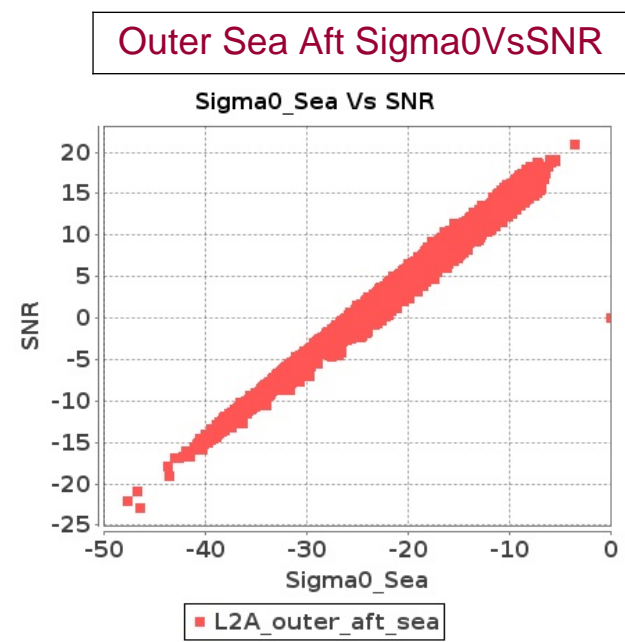
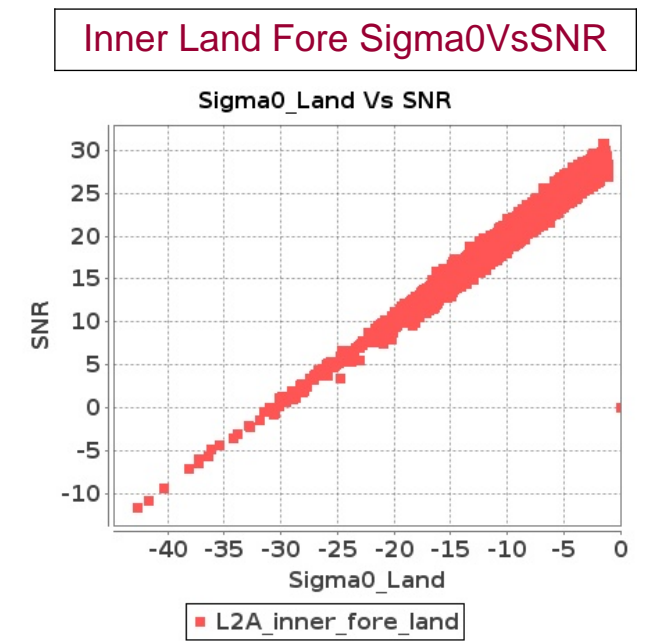
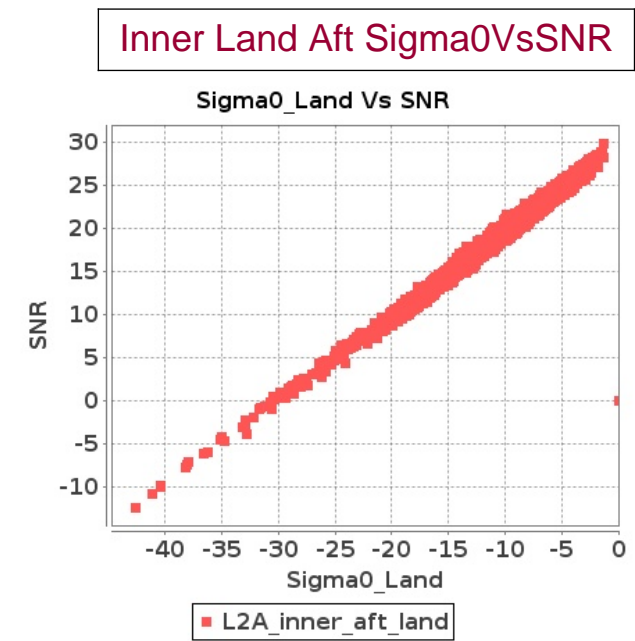
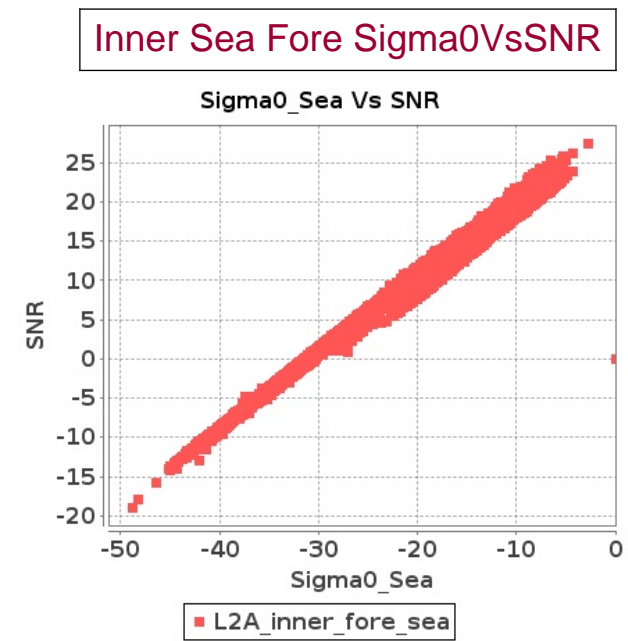
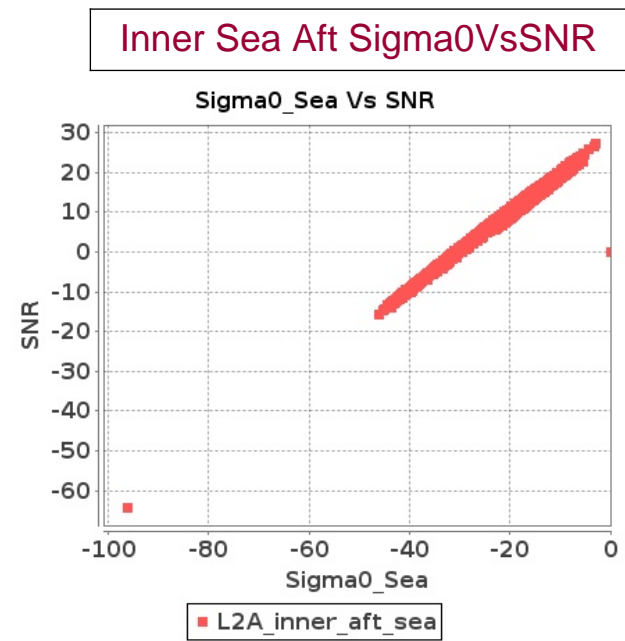


# SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 01-MAY-2019 To 02-MAY-2019



# SCATSAT-1 Scatterometer Level-2A Data Quality Cycle wise Report

Report between 01-MAY-2019 To 02-MAY-2019

| Sr No | Start Orbit | End Orbit | Dir. | Ver. | SNR       |        |            |            |        |            |           |        |            |            |        |            | Sigma0    |        |            |            |        |            |           |        |            |            |        |            |
|-------|-------------|-----------|------|------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|-----------|--------|------------|------------|--------|------------|
|       |             |           |      |      | Inner Aft |        |            | Inner Fore |        |            | Outer Aft |        |            | Outer Fore |        |            | Inner Aft |        |            | Inner Fore |        |            | Outer Aft |        |            | Outer Fore |        |            |
|       |             |           |      |      | 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     | 13728       | 13729     | SN   | 1    | 0.0       | 46.416 | 0.52       | 0.0        | 43.29  | 0.704      | 0.0       | 38.887 | 0.547      | 0.0        | 44.752 | 0.746      | 0.0       | 45.776 | 0.514      | 0.0        | 42.202 | 0.642      | 0.0       | 37.275 | 0.51       | 0.0        | 45.5   | 0.572      |
| 2     | 13728       | 13729     | SN   | 1    | 0.0       | 49.526 | 2.184      | 0.0        | 48.942 | 2.556      | 0.0       | 43.186 | 1.963      | 0.0        | 46.155 | 2.336      | 0.0       | 51.056 | 2.174      | 0.0        | 47.839 | 2.362      | 0.0       | 43.201 | 1.814      | 0.0        | 45.857 | 1.949      |
| 3     | 13728       | 13729     | SN   | 1    | 0.0       | 49.526 | 2.184      | 0.0        | 48.942 | 2.556      | 0.0       | 43.186 | 1.963      | 0.0        | 46.155 | 2.336      | 0.0       | 51.056 | 2.174      | 0.0        | 47.839 | 2.362      | 0.0       | 43.201 | 1.814      | 0.0        | 45.857 | 1.949      |
| 4     | 13728       | 13729     | SN   | 1    | 0.0       | 46.416 | 0.547      | 0.0        | 43.29  | 0.744      | 0.0       | 38.887 | 0.57       | 0.0        | 44.752 | 0.783      | 0.0       | 45.776 | 0.54       | 0.0        | 42.202 | 0.677      | 0.0       | 37.275 | 0.537      | 0.0        | 45.5   | 0.602      |
| 5     | 13728       | 13729     | SN   | 1    | 0.0       | 49.526 | 2.319      | 0.0        | 48.942 | 2.676      | 0.0       | 43.186 | 1.977      | 0.0        | 46.155 | 2.464      | 0.0       | 51.056 | 2.297      | 0.0        | 47.265 | 2.482      | 0.0       | 43.201 | 1.835      | 0.0        | 45.857 | 2.057      |
| 6     | 13728       | 13729     | SN   | 1    | 0.0       | 46.416 | 0.52       | 0.0        | 43.29  | 0.704      | 0.0       | 38.887 | 0.547      | 0.0        | 44.752 | 0.746      | 0.0       | 45.776 | 0.514      | 0.0        | 42.202 | 0.642      | 0.0       | 37.275 | 0.51       | 0.0        | 45.5   | 0.572      |
| 7     | 13729       | 13730     | NS   | 1    | 0.0       | 50.305 | 1.714      | 0.0        | 55.746 | 2.142      | 0.0       | 43.007 | 1.626      | 0.0        | 44.249 | 1.862      | 0.0       | 49.289 | 1.71       | 0.0        | 55.025 | 2.074      | 0.0       | 44.351 | 1.624      | 0.0        | 44.506 | 1.818      |
| 8     | 13729       | 13730     | NS   | 1    | 0.0       | 53.457 | 5.343      | 0.0        | 48.884 | 6.256      | 0.0       | 50.528 | 5.169      | 0.0        | 50.367 | 6.423      | 0.0       | 54.373 | 5.332      | 0.0        | 51.74  | 6.134      | 0.0       | 47.535 | 5.155      | 0.0        | 50.533 | 5.984      |
| 9     | 13729       | 13730     | NS   | 1    | 0.0       | 52.844 | 5.272      | 0.0        | 51.057 | 6.235      | 0.0       | 49.043 | 5.184      | 0.0        | 49.45  | 6.388      | 0.0       | 53.758 | 5.332      | 0.0        | 51.608 | 6.154      | 0.0       | 44.794 | 5.134      | 0.0        | 47.903 | 6.069      |
| 10    | 13729       | 13730     | SN   | 1    | 0.0       | 55.307 | 3.684      | 0.0        | 55.991 | 4.381      | 0.0       | 46.053 | 3.214      | 0.0        | 47.719 | 3.936      | 0.0       | 56.046 | 3.684      | 0.0        | 55.371 | 4.205      | 0.0       | 47.288 | 3.192      | 0.0        | 46.071 | 3.465      |
| 11    | 13729       | 13730     | SN   | 1    | 0.0       | 55.307 | 3.626      | 0.0        | 55.991 | 4.324      | 0.0       | 46.053 | 3.168      | 0.0        | 47.719 | 3.868      | 0.0       | 56.046 | 3.636      | 0.0        | 55.371 | 4.151      | 0.0       | 47.288 | 3.139      | 0.0        | 46.071 | 3.426      |
| 12    | 13729       | 13730     | SN   | 1    | 0.0       | 55.307 | 3.626      | 0.0        | 55.991 | 4.324      | 0.0       | 46.053 | 3.168      | 0.0        | 47.719 | 3.868      | 0.0       | 56.046 | 3.636      | 0.0        | 55.371 | 4.151      | 0.0       | 47.288 | 3.139      | 0.0        | 46.071 | 3.426      |
| 13    | 13729       | 13730     | NS   | 1    | 0.0       | 49.849 | 1.678      | 0.0        | 52.114 | 2.128      | 0.0       | 43.005 | 1.607      | 0.0        | 46.333 | 1.841      | 0.0       | 50.291 | 1.701      | 0.0        | 52.64  | 2.027      | 0.0       | 40.775 | 1.603      | 0.0        | 45.317 | 1.813      |
| 14    | 13729       | 13730     | SN   | 1    | 0.0       | 48.433 | 0.994      | 0.0        | 43.932 | 1.283      | 0.0       | 42.354 | 0.915      | 0.0        | 46.144 | 1.188      | 0.0       | 47.736 | 1.015      | 0.0        | 45.147 | 1.26       | 0.0       | 42.474 | 0.892      | 0.0        | 45.519 | 1.027      |
| 15    | 13729       | 13730     | SN   | 1    | 0.0       | 48.433 | 0.994      | 0.0        | 43.932 | 1.283      | 0.0       | 42.354 | 0.915      | 0.0        | 46.144 | 1.188      | 0.0       | 47.736 | 1.015      | 0.0        | 45.147 | 1.26       | 0.0       | 42.474 | 0.892      | 0.0        | 45.519 | 1.027      |
| 16    | 13729       | 13730     | SN   | 1    | 0.0       | 48.433 | 1.01       | 0.0        | 43.932 | 1.301      | 0.0       | 42.354 | 0.932      | 0.0        | 46.144 | 1.207      | 0.0       | 47.736 | 1.031      | 0.0        | 45.147 | 1.276      | 0.0       | 42.474 | 0.904      | 0.0        | 45.519 | 1.044      |
| 17    | 13730       | 13731     | NS   | 1    | 0.0       | 43.864 | 2.043      | 0.0        | 43.738 | 2.096      | 0.0       | 39.521 | 2.446      | 0.0        | 45.428 | 3.234      | 0.0       | 43.456 | 2.094      | 0.0        | 43.972 | 1.924      | 0.0       | 38.636 | 2.333      | 0.0        | 41.774 | 2.816      |
| 18    | 13730       | 13731     | SN   | 1    | 0.0       | 48.104 | 0.49       | 0.0        | 49.369 | 0.725      | 0.0       | 37.987 | 0.799      | 0.0        | 36.608 | 1.176      | 0.0       | 48.605 | 0.472      | 0.0        | 49.493 | 0.61       | 0.0       | 39.298 | 0.701      | 0.0        | 36.106 | 0.833      |
| 19    | 13730       | 13731     | SN   | 1    | 0.0       | 42.12  | 2.221      | 0.0        | 46.622 | 2.387      | 0.0       | 42.838 | 2.453      | 0.0        | 41.995 | 3.096      | 0.0       | 41.497 | 2.149      | 0.0        | 47.174 | 2.007      | 0.0       | 44.527 | 2.172      | 0.0        | 43.262 | 2.462      |
| 20    | 13730       | 13731     | NS   | 1    | 0.0       | 37.606 | 0.593      | 0.0        | 38.109 | 0.71       | 0.0       | 35.216 | 0.809      | 0.0        | 47.323 | 1.131      | 0.0       | 37.793 | 0.572      | 0.0        | 37.981 | 0.643      | 0.0       | 33.35  | 0.777      | 0.0        | 47.903 | 0.917      |
| 21    | 13730       | 13731     | SN   | 1    | 0.0       | 42.12  | 2.249      | 0.0        | 46.622 | 2.418      | 0.0       | 42.646 | 2.512      | 0.0        | 42.038 | 3.136      | 0.0       | 41.497 | 2.176      | 0.0        | 47.174 | 2.033      | 0.0       | 44.524 | 2.206      | 0.0        | 43.306 | 2.509      |
| 22    | 13730       | 13731     | NS   | 1    | 0.0       | 37.883 | 0.626      | 0.0        | 40.349 | 0.629      | 0.0       | 36.936 | 0.715      | 0.0        | 41.214 | 1.091      | 0.0       | 35.801 | 0.579      | 0.0        | 37.138 | 0.541      | 0.0       | 35.365 | 0.729      | 0.0        | 38.449 | 0.928      |
| 23    | 13730       | 13731     | SN   | 1    | 0.0       | 42.12  | 2.249      | 0.0        | 46.622 | 2.418      | 0.0       | 42.838 | 2.505      | 0.0        | 41.995 | 3.143      | 0.0       | 41.497 | 2.176      | 0.0        | 47.174 | 2.033      | 0.0       | 44.527 | 2.221      | 0.0        | 43.262 | 2.494      |
| 24    | 13730       | 13731     | NS   | 1    | 0.0       | 45.018 | 2.115      | 0.0        | 39.831 | 2.338      | 0.0       | 38.421 | 2.305      | 0.0        | 51.363 | 3.254      | 0.0       | 44.906 | 2.064      | 0.0        | 39.759 | 2.105      | 0.0       | 38.088 | 2.312      | 0.0        | 49.967 | 2.765      |
| 25    | 13730       | 13731     | SN   | 1    | 0.0       | 48.104 | 0.496      | 0.0        | 49.369 | 0.733      | 0.0       | 37.987 | 0.829      | 0.0        | 36.608 | 1.19       | 0.0       | 48.605 | 0.477      | 0.0        | 49.493 | 0.617      | 0.0       | 39.298 | 0.712      | 0.0        | 36.106 | 0.845      |
| 26    | 13730       | 13731     | SN   | 1    | 0.0       | 48.104 | 0.498      | 0.0        | 49.369 | 0.733      | 0.0       | 38.7   | 0.821      | 0.0        | 37.25  | 1.19       | 0.0       | 48.605 | 0.48       | 0.0        | 49.495 | 0.619      | 0.0       | 39.298 | 0.708      | 0.0        | 36.123 | 0.848      |
| 27    | 13731       | 13732     | NS   | 1    | 0.0       | 52.363 | 4.444      | 0.0        | 47.405 | 6.023      | 0.0       | 46.472 | 4.56       | 0.0        | 46.218 | 5.731      | 0.0       | 51.566 | 4.504      | 0.0        | 46.147 | 6.105      | 0.0       | 46.736 | 4.667      | 0.0        | 45.032 | 5.639      |
| 28    | 13731       | 13732     | NS   | 1    | 0.0       | 48.144 | 1.505      | 0.0        | 43.952 | 2.039      | 0.0       | 37.298 | 1.487      | 0.0        | 39.472 | 1.871      | 0.0       | 46.755 | 1.544      | 0.0        | 43.544 | 2.032      | 0.0       | 37.206 | 1.561      | 0.0        | 38.099 | 1.837      |
| 29    | 13731       | 13732     | SN   | 1    | 0.0       | 43.806 | 0.818      | 0.0        | 36.494 | 1.497      | 0.0       | 36.189 | 1.247      | 0.0        | 39.312 | 1.853      | 0.0       | 44.293 | 0.841      | 0.0        | 35.965 | 1.338      | 0.0       | 36.96  | 1.238      | 0.0        | 34.635 | 1.664      |
| 30    | 13731       | 13732     | SN   | 1    | 0.0       | 45.686 | 3.624      | 0.0        | 41.41  | 4.433      | 0.0       | 41.597 | 3.698      | 0.0        | 37.7   | 5.242      | 0.0       | 46.773 | 3.634      | 0.0        | 43.477 | 4.109      | 0.0       | 41.039 | 3.749      | 0.0        | 38.97  | 4.978      |
| 31    | 13733       | 13734     | NS   | 1    | 0.0       | 46.296 | 1.332      | 0.0        | 47.365 | 1.739      | 0.0       | 42.078 | 1.184      | 0.0        | 42.648 | 1.807      | 0.0       | 47.712 | 1.319      | 0.0        | 48.674 | 1.59       | 0.0       | 43.919 | 1.161      | 0.0        | 40.196 | 1.472      |

|                          |            |      |        |  |  |
|--------------------------|------------|------|--------|--|--|
| Parameter Specifications | Parameters | SNR  | Sigma0 | <span style="color: green;">■</span> Normal    | <span style="color: yellow;">■</span> Deviations |
|                          | Range      | 20.0 | 20.0   | <span style="color: orange;">■</span> Alarming | <span style="color: red;">■</span> High Errors   |

|    |       |       |    |   |     |        |       |       |        |        |     |        |       |     |        |       |     |        |        |       |        |        |     |        |       |     |        |       |
|----|-------|-------|----|---|-----|--------|-------|-------|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-------|--------|--------|-----|--------|-------|-----|--------|-------|
| 32 | 13733 | 13734 | SN | 1 | 0.0 | 48.447 | 4.773 | 0.0   | 51.311 | 6.073  | 0.0 | 40.273 | 4.078 | 0.0 | 42.221 | 5.19  | 0.0 | 50.562 | 4.826  | 0.0   | 52.082 | 5.891  | 0.0 | 41.165 | 3.929 | 0.0 | 41.46  | 4.995 |
| 33 | 13733 | 13734 | NS | 1 | 0.0 | 48.367 | 4.892 | 0.0   | 55.427 | 5.526  | 0.0 | 42.16  | 4.135 | 0.0 | 46.455 | 5.623 | 0.0 | 49.313 | 4.892  | 0.0   | 55.355 | 5.243  | 0.0 | 42.631 | 4.057 | 0.0 | 44.663 | 4.772 |
| 34 | 13733 | 13734 | SN | 1 | 0.0 | 44.632 | 1.189 | 0.0   | 47.558 | 1.57   | 0.0 | 41.345 | 1.152 | 0.0 | 39.063 | 1.713 | 0.0 | 45.471 | 1.208  | 0.0   | 46.018 | 1.524  | 0.0 | 40.867 | 1.126 | 0.0 | 38.487 | 1.55  |
| 35 | 13734 | 13735 | SN | 1 | 0.0 | 52.663 | 1.876 | 0.0   | 48.3   | 2.639  | 0.0 | 44.496 | 1.664 | 0.0 | 47.067 | 2.267 | 0.0 | 52.967 | 1.889  | 0.0   | 47.296 | 2.51   | 0.0 | 46.54  | 1.652 | 0.0 | 46.013 | 2.193 |
| 36 | 13734 | 13735 | SN | 1 | 0.0 | 52.663 | 1.772 | 0.0   | 48.3   | 2.442  | 0.0 | 47.692 | 1.577 | 0.0 | 47.067 | 2.096 | 0.0 | 52.965 | 1.784  | 0.0   | 47.294 | 2.33   | 0.0 | 47.283 | 1.556 | 0.0 | 46.013 | 2.029 |
| 37 | 13734 | 13735 | SN | 1 | 0.0 | 52.663 | 1.753 | 0.0   | 48.3   | 2.463  | 0.0 | 44.246 | 1.562 | 0.0 | 47.067 | 2.12  | 0.0 | 52.967 | 1.765  | 0.0   | 47.296 | 2.342  | 0.0 | 46.291 | 1.541 | 0.0 | 46.013 | 2.043 |
| 38 | 13734 | 13735 | SN | 1 | 0.0 | 56.453 | 7.033 | 0.0   | 52.72  | 8.38   | 0.0 | 46.651 | 6.218 | 0.0 | 49.83  | 7.453 | 0.0 | 57.128 | 7.079  | 0.0   | 53.226 | 8.102  | 0.0 | 47.891 | 5.961 | 0.0 | 49.771 | 7.223 |
| 39 | 13734 | 13735 | SN | 1 | 0.0 | 55.904 | 6.562 | 0.0   | 52.72  | 7.802  | 0.0 | 46.651 | 5.855 | 0.0 | 49.83  | 6.947 | 0.0 | 56.58  | 6.605  | 0.0   | 53.226 | 7.532  | 0.0 | 47.891 | 5.593 | 0.0 | 49.771 | 6.711 |
| 40 | 13734 | 13735 | SN | 1 | 0.0 | 56.452 | 6.551 | 0.0   | 53.582 | 7.858  | 0.0 | 50.028 | 5.825 | 0.0 | 49.83  | 6.979 | 0.0 | 57.128 | 6.573  | 0.0   | 54.112 | 7.589  | 0.0 | 50.273 | 5.601 | 0.0 | 49.773 | 6.703 |
| 41 | 13735 | 13736 | SN | 1 | 0.0 | 44.555 | 2.926 | 0.0   | 53.54  | 3.401  | 0.0 | 44.45  | 2.246 | 0.0 | 46.447 | 2.798 | 0.0 | 44.222 | 2.957  | 0.0   | 50.166 | 3.436  | 0.0 | 42.073 | 2.259 | 0.0 | 47.695 | 2.86  |
| 42 | 13735 | 13736 | SN | 1 | 0.0 | 55.752 | 9.84  | 0.226 | 53.746 | 10.159 | 0.0 | 46.894 | 7.852 | 0.0 | 49.829 | 8.83  | 0.0 | 55.48  | 10.043 | 0.296 | 55.963 | 10.169 | 0.0 | 48.721 | 8.115 | 0.0 | 51.237 | 9.096 |
| 43 | 13735 | 13736 | SN | 1 | 0.0 | 44.555 | 2.734 | 0.0   | 53.54  | 3.186  | 0.0 | 44.45  | 2.097 | 0.0 | 46.447 | 2.63  | 0.0 | 44.222 | 2.764  | 0.0   | 50.166 | 3.214  | 0.0 | 42.073 | 2.113 | 0.0 | 47.695 | 2.673 |
| 44 | 13735 | 13736 | NS | 1 | 0.0 | 46.899 | 0.925 | 0.0   | 42.904 | 1.483  | 0.0 | 40.756 | 1.078 | 0.0 | 44.629 | 1.94  | 0.0 | 46.951 | 0.971  | 0.0   | 41.024 | 1.329  | 0.0 | 40.99  | 0.992 | 0.0 | 42.565 | 1.602 |
| 45 | 13735 | 13736 | NS | 1 | 0.0 | 41.204 | 0.934 | 0.0   | 42.904 | 1.474  | 0.0 | 38.978 | 1.094 | 0.0 | 39.266 | 1.917 | 0.0 | 40.744 | 0.984  | 0.0   | 39.995 | 1.324  | 0.0 | 39.212 | 1.029 | 0.0 | 38.41  | 1.603 |
| 46 | 13735 | 13736 | NS | 1 | 0.0 | 45.587 | 3.781 | 0.0   | 43.072 | 5.697  | 0.0 | 45.49  | 3.582 | 0.0 | 50.811 | 5.502 | 0.0 | 45.785 | 3.802  | 0.0   | 42.655 | 5.241  | 0.0 | 45.741 | 3.567 | 0.0 | 51.219 | 4.857 |
| 47 | 13735 | 13736 | SN | 1 | 0.0 | 55.752 | 10.53 | 0.226 | 53.746 | 10.841 | 0.0 | 46.894 | 8.394 | 0.0 | 49.829 | 9.429 | 0.0 | 55.48  | 10.748 | 0.296 | 55.963 | 10.885 | 0.0 | 48.721 | 8.675 | 0.0 | 51.237 | 9.737 |
| 48 | 13735 | 13736 | NS | 1 | 0.0 | 46.017 | 3.842 | 0.0   | 52.79  | 5.626  | 0.0 | 43.011 | 3.468 | 0.0 | 45.964 | 5.488 | 0.0 | 46.215 | 3.822  | 0.0   | 51.653 | 5.16   | 0.0 | 43.26  | 3.475 | 0.0 | 46.427 | 4.836 |
| 49 | 13735 | 13736 | SN | 1 | 0.0 | 44.555 | 2.734 | 0.0   | 53.54  | 3.186  | 0.0 | 44.45  | 2.097 | 0.0 | 46.447 | 2.63  | 0.0 | 44.222 | 2.764  | 0.0   | 50.166 | 3.214  | 0.0 | 42.073 | 2.113 | 0.0 | 47.695 | 2.673 |
| 50 | 13735 | 13736 | SN | 1 | 0.0 | 55.752 | 9.84  | 0.226 | 53.746 | 10.159 | 0.0 | 46.894 | 7.852 | 0.0 | 49.829 | 8.83  | 0.0 | 55.48  | 10.043 | 0.296 | 55.963 | 10.169 | 0.0 | 48.721 | 8.115 | 0.0 | 51.237 | 9.096 |
| 51 | 13736 | 13737 | NS | 1 | 0.0 | 43.639 | 0.621 | 0.0   | 43.389 | 0.827  | 0.0 | 42.228 | 0.626 | 0.0 | 38.567 | 1.083 | 0.0 | 42.989 | 0.603  | 0.0   | 44.045 | 0.769  | 0.0 | 40.943 | 0.587 | 0.0 | 36.507 | 0.908 |
| 52 | 13736 | 13737 | SN | 1 | 0.0 | 54.482 | 5.133 | 0.0   | 51.271 | 5.9    | 0.0 | 48.478 | 4.872 | 0.0 | 48.226 | 5.772 | 0.0 | 55.077 | 5.184  | 0.0   | 51.198 | 6.023  | 0.0 | 49.391 | 5.072 | 0.0 | 48.49  | 5.779 |
| 53 | 13736 | 13737 | SN | 1 | 0.0 | 54.482 | 5.143 | 0.0   | 51.182 | 5.901  | 0.0 | 48.478 | 4.886 | 0.0 | 48.232 | 5.779 | 0.0 | 55.077 | 5.174  | 0.0   | 51.198 | 6.034  | 0.0 | 49.391 | 5.072 | 0.0 | 48.495 | 5.787 |
| 54 | 13736 | 13737 | NS | 1 | 0.0 | 47.697 | 2.28  | 0.0   | 43.556 | 2.905  | 0.0 | 45.191 | 2.072 | 0.0 | 49.113 | 3.247 | 0.0 | 49.425 | 2.301  | 0.0   | 45.115 | 2.601  | 0.0 | 43.118 | 2.079 | 0.0 | 46.179 | 2.701 |
| 55 | 13736 | 13737 | NS | 1 | 0.0 | 43.913 | 2.239 | 0.0   | 47.7   | 2.804  | 0.0 | 43.302 | 2.192 | 0.0 | 50.103 | 3.007 | 0.0 | 45.644 | 2.331  | 0.0   | 48.868 | 2.531  | 0.0 | 43.722 | 2.136 | 0.0 | 50.847 | 2.66  |
| 56 | 13736 | 13737 | SN | 1 | 0.0 | 49.812 | 1.333 | 0.0   | 46.84  | 1.913  | 0.0 | 47.487 | 1.368 | 0.0 | 46.292 | 1.877 | 0.0 | 49.139 | 1.379  | 0.0   | 45.867 | 1.862  | 0.0 | 50.087 | 1.397 | 0.0 | 44.024 | 1.847 |
| 57 | 13736 | 13737 | SN | 1 | 0.0 | 49.812 | 1.336 | 0.0   | 46.778 | 1.906  | 0.0 | 47.575 | 1.361 | 0.0 | 46.313 | 1.886 | 0.0 | 49.139 | 1.388  | 0.0   | 45.872 | 1.86   | 0.0 | 50.176 | 1.397 | 0.0 | 44.044 | 1.84  |
| 58 | 13736 | 13737 | NS | 1 | 0.0 | 43.802 | 0.624 | 0.0   | 39.005 | 0.873  | 0.0 | 40.859 | 0.631 | 0.0 | 38.994 | 1.093 | 0.0 | 45.472 | 0.619  | 0.0   | 38.097 | 0.778  | 0.0 | 40.392 | 0.571 | 0.0 | 38.046 | 0.93  |
| 59 | 13737 | 13738 | NS | 1 | 0.0 | 41.399 | 0.86  | 0.0   | 46.692 | 1.097  | 0.0 | 45.001 | 0.916 | 0.0 | 41.641 | 1.276 | 0.0 | 43.006 | 0.867  | 0.0   | 47.173 | 0.945  | 0.0 | 44.21  | 0.801 | 0.0 | 42.401 | 0.984 |
| 60 | 13737 | 13738 | SN | 1 | 0.0 | 47.597 | 2.427 | 0.0   | 45.715 | 2.855  | 0.0 | 45.87  | 2.517 | 0.0 | 37.991 | 3.212 | 0.0 | 47.176 | 2.447  | 0.0   | 43.642 | 2.517  | 0.0 | 46.247 | 2.261 | 0.0 | 39.203 | 2.797 |
| 61 | 13737 | 13738 | SN | 1 | 0.0 | 39.49  | 0.563 | 0.0   | 49.9   | 0.823  | 0.0 | 35.024 | 0.786 | 0.0 | 38.672 | 1.183 | 0.0 | 38.921 | 0.536  | 0.0   | 49.266 | 0.711  | 0.0 | 34.143 | 0.708 | 0.0 | 36.42  | 0.951 |
| 62 | 13737 | 13738 | NS | 1 | 0.0 | 44.758 | 0.86  | 0.0   | 46.204 | 1.104  | 0.0 | 45.395 | 0.902 | 0.0 | 42.094 | 1.278 | 0.0 | 46.435 | 0.838  | 0.0   | 46.684 | 0.943  | 0.0 | 42.984 | 0.819 | 0.0 | 42.846 | 0.972 |
| 63 | 13737 | 13738 | NS | 1 | 0.0 | 49.294 | 3.064 | 0.0   | 46.268 | 3.897  | 0.0 | 42.326 | 2.942 | 0.0 | 45.658 | 4.078 | 0.0 | 48.462 | 3.074  | 0.0   | 49.789 | 3.551  | 0.0 | 43.139 | 2.786 | 0.0 | 44.743 | 3.351 |
| 64 | 13737 | 13738 | NS | 1 | 0.0 | 46.41  | 3.044 | 0.0   | 46.688 | 3.908  | 0.0 | 43.039 | 2.95  | 0.0 | 49.696 | 4.092 | 0.0 | 47.558 | 3.074  | 0.0   | 50.758 | 3.551  | 0.0 | 43.806 | 2.801 | 0.0 | 48.169 | 3.315 |
| 65 | 13738 | 13739 | SN | 1 | 0.0 | 43.997 | 1.487 | 0.0   | 47.467 | 1.851  | 0.0 | 44.947 | 1.384 | 0.0 | 45.926 | 1.792 | 0.0 | 45.487 | 1.532  | 0.0   | 50.354 | 1.758  | 0.0 | 44.838 | 1.361 | 0.0 | 42.005 | 1.67  |
| 66 | 13738 | 13739 | NS | 1 | 0.0 | 46.54  | 1.457 | 0.0   | 47.146 | 2.086  | 0.0 | 45.469 | 2.007 | 0.0 | 47.841 | 3.27  | 0.0 | 47.056 | 1.467  | 0.0   | 45.068 | 1.772  | 0.0 | 43.337 | 1.823 | 0.0 | 44.995 | 2.497 |
| 67 | 13738 | 13739 | NS | 1 | 0.0 | 37.569 | 0.479 | 0.0   | 40.963 | 0.756  | 0.0 | 44.352 | 0.756 | 0.0 | 44.908 | 1.084 | 0.0 | 37.635 | 0.449  | 0.0   | 42.417 | 0.643  | 0.0 | 41.431 | 0.648 | 0.0 | 40.838 | 0.802 |

|                          |            |      |        |          |             |
|--------------------------|------------|------|--------|----------|-------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal   | Deviations  |
|                          | Range      | 20.0 | 20.0   | Alarming | High Errors |

|     |       |       |    |   |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|
| 68  | 13738 | 13739 | NS | 1 | 0.0 | 42.739 | 0.472 | 0.0 | 41.167 | 0.754 | 0.0 | 45.154 | 0.772 | 0.0 | 43.977 | 1.077 | 0.0 | 42.29  | 0.447 | 0.0 | 42.307 | 0.641 | 0.0 | 42.659 | 0.669 | 0.0 | 41.152 | 0.817 |
| 69  | 13738 | 13739 | NS | 1 | 0.0 | 45.541 | 1.488 | 0.0 | 45.344 | 2.106 | 0.0 | 45.963 | 2.099 | 0.0 | 44.3   | 3.256 | 0.0 | 47.305 | 1.498 | 0.0 | 44.929 | 1.802 | 0.0 | 43.749 | 1.872 | 0.0 | 42.053 | 2.497 |
| 70  | 13738 | 13739 | SN | 1 | 0.0 | 42.657 | 1.5   | 0.0 | 46.436 | 1.855 | 0.0 | 49.092 | 1.377 | 0.0 | 41.384 | 1.788 | 0.0 | 44.147 | 1.539 | 0.0 | 49.325 | 1.76  | 0.0 | 48.983 | 1.348 | 0.0 | 39.911 | 1.672 |
| 71  | 13738 | 13739 | SN | 1 | 0.0 | 50.879 | 4.813 | 0.0 | 53.747 | 5.885 | 0.0 | 50.415 | 4.978 | 0.0 | 44.167 | 6.085 | 0.0 | 52.967 | 4.955 | 0.0 | 53.536 | 5.427 | 0.0 | 48.291 | 5.027 | 0.0 | 41.458 | 5.857 |
| 72  | 13738 | 13739 | SN | 1 | 0.0 | 50.545 | 4.803 | 0.0 | 52.434 | 5.895 | 0.0 | 45.74  | 5.027 | 0.0 | 46.167 | 6.05  | 0.0 | 52.04  | 4.976 | 0.0 | 52.242 | 5.447 | 0.0 | 44.731 | 5.07  | 0.0 | 44.079 | 5.793 |
| 73  | 13739 | 13740 | SN | 1 | 0.0 | 49.464 | 4.398 | 0.0 | 50.808 | 5.08  | 0.0 | 42.758 | 4.213 | 0.0 | 45.196 | 5.158 | 0.0 | 48.705 | 4.388 | 0.0 | 51.268 | 4.795 | 0.0 | 42.824 | 4.056 | 0.0 | 42.613 | 4.637 |
| 74  | 13739 | 13740 | NS | 1 | 0.0 | 38.796 | 0.64  | 0.0 | 40.216 | 0.949 | 0.0 | 39.589 | 1.056 | 0.0 | 39.554 | 1.43  | 0.0 | 36.546 | 0.653 | 0.0 | 38.209 | 0.892 | 0.0 | 35.583 | 0.975 | 0.0 | 37.361 | 1.192 |
| 75  | 13739 | 13740 | NS | 1 | 0.0 | 45.004 | 1.932 | 0.0 | 49.468 | 2.796 | 0.0 | 40.531 | 2.665 | 0.0 | 39.198 | 3.947 | 0.0 | 46.068 | 1.972 | 0.0 | 49.422 | 2.684 | 0.0 | 40.769 | 2.651 | 0.0 | 36.84  | 3.392 |
| 76  | 13739 | 13740 | NS | 1 | 0.0 | 45.004 | 1.969 | 0.0 | 49.468 | 2.846 | 0.0 | 40.531 | 2.723 | 0.0 | 37.518 | 4.027 | 0.0 | 46.068 | 2.0   | 0.0 | 49.422 | 2.733 | 0.0 | 40.769 | 2.687 | 0.0 | 36.84  | 3.454 |
| 77  | 13739 | 13740 | SN | 1 | 0.0 | 53.064 | 4.388 | 0.0 | 54.128 | 5.03  | 0.0 | 42.499 | 4.206 | 0.0 | 45.117 | 5.08  | 0.0 | 53.172 | 4.337 | 0.0 | 54.209 | 4.775 | 0.0 | 41.487 | 3.978 | 0.0 | 42.469 | 4.566 |
| 78  | 13739 | 13740 | NS | 1 | 0.0 | 38.796 | 0.647 | 0.0 | 40.216 | 0.966 | 0.0 | 39.589 | 1.069 | 0.0 | 39.554 | 1.458 | 0.0 | 36.546 | 0.666 | 0.0 | 38.209 | 0.913 | 0.0 | 35.583 | 0.986 | 0.0 | 37.361 | 1.215 |
| 79  | 13739 | 13740 | NS | 1 | 0.0 | 45.004 | 1.932 | 0.0 | 49.468 | 2.796 | 0.0 | 40.531 | 2.665 | 0.0 | 39.198 | 3.947 | 0.0 | 46.068 | 1.972 | 0.0 | 49.422 | 2.684 | 0.0 | 40.769 | 2.651 | 0.0 | 36.84  | 3.392 |
| 80  | 13739 | 13740 | NS | 1 | 0.0 | 38.796 | 0.64  | 0.0 | 40.216 | 0.949 | 0.0 | 39.589 | 1.056 | 0.0 | 39.554 | 1.43  | 0.0 | 36.546 | 0.653 | 0.0 | 38.209 | 0.892 | 0.0 | 35.583 | 0.975 | 0.0 | 37.361 | 1.192 |
| 81  | 13739 | 13740 | SN | 1 | 0.0 | 45.774 | 1.066 | 0.0 | 45.729 | 1.352 | 0.0 | 43.418 | 1.05  | 0.0 | 47.001 | 1.425 | 0.0 | 47.239 | 1.104 | 0.0 | 44.11  | 1.256 | 0.0 | 43.44  | 0.954 | 0.0 | 42.388 | 1.259 |
| 82  | 13739 | 13740 | SN | 1 | 0.0 | 45.774 | 1.077 | 0.0 | 40.108 | 1.37  | 0.0 | 40.587 | 1.075 | 0.0 | 46.09  | 1.416 | 0.0 | 47.239 | 1.1   | 0.0 | 40.143 | 1.256 | 0.0 | 40.612 | 0.991 | 0.0 | 41.477 | 1.241 |
| 83  | 13740 | 13741 | NS | 1 | 0.0 | 46.67  | 3.642 | 0.0 | 47.382 | 5.194 | 0.0 | 44.164 | 3.85  | 0.0 | 44.58  | 5.778 | 0.0 | 47.812 | 3.557 | 0.0 | 47.661 | 4.885 | 0.0 | 45.361 | 3.537 | 0.0 | 45.464 | 4.973 |
| 84  | 13740 | 13741 | NS | 1 | 0.0 | 43.511 | 1.02  | 0.0 | 39.821 | 1.503 | 0.0 | 38.076 | 1.167 | 0.0 | 40.123 | 1.854 | 0.0 | 41.952 | 1.008 | 0.0 | 38.246 | 1.279 | 0.0 | 37.161 | 1.084 | 0.0 | 37.309 | 1.5   |
| 85  | 13740 | 13741 | NS | 1 | 0.0 | 41.9   | 0.999 | 0.0 | 39.821 | 1.503 | 0.0 | 37.909 | 1.156 | 0.0 | 40.123 | 1.856 | 0.0 | 41.604 | 0.997 | 0.0 | 38.246 | 1.277 | 0.0 | 36.994 | 1.077 | 0.0 | 37.309 | 1.503 |
| 86  | 13740 | 13741 | NS | 1 | 0.0 | 41.973 | 3.478 | 0.0 | 47.382 | 4.964 | 0.0 | 44.164 | 3.677 | 0.0 | 44.693 | 5.512 | 0.0 | 42.511 | 3.417 | 0.0 | 47.661 | 4.64  | 0.0 | 45.361 | 3.386 | 0.0 | 45.577 | 4.753 |
| 87  | 13740 | 13741 | SN | 1 | 0.0 | 55.864 | 3.306 | 0.0 | 47.906 | 4.205 | 0.0 | 45.443 | 3.951 | 0.0 | 43.717 | 4.906 | 0.0 | 55.217 | 3.417 | 0.0 | 47.796 | 3.889 | 0.0 | 44.084 | 3.845 | 0.0 | 42.181 | 4.478 |
| 88  | 13740 | 13741 | SN | 1 | 0.0 | 44.88  | 1.101 | 0.0 | 47.682 | 1.384 | 0.0 | 43.545 | 1.253 | 0.0 | 41.964 | 1.62  | 0.0 | 45.102 | 1.069 | 0.0 | 46.111 | 1.272 | 0.0 | 42.764 | 1.243 | 0.0 | 39.418 | 1.463 |
| 89  | 13740 | 13741 | NS | 1 | 0.0 | 41.9   | 1.052 | 0.0 | 39.821 | 1.579 | 0.0 | 37.909 | 1.204 | 0.0 | 40.123 | 1.951 | 0.0 | 41.604 | 1.057 | 0.0 | 38.246 | 1.339 | 0.0 | 36.994 | 1.126 | 0.0 | 37.309 | 1.58  |
| 90  | 13740 | 13741 | NS | 1 | 0.0 | 41.973 | 3.478 | 0.0 | 47.382 | 4.954 | 0.0 | 44.164 | 3.67  | 0.0 | 44.58  | 5.498 | 0.0 | 42.511 | 3.417 | 0.0 | 47.661 | 4.65  | 0.0 | 45.361 | 3.386 | 0.0 | 45.464 | 4.739 |
| 91  | 13741 | 13742 | SN | 1 | 0.0 | 37.99  | 0.993 | 0.0 | 42.08  | 1.54  | 0.0 | 35.785 | 1.28  | 0.0 | 39.34  | 2.019 | 0.0 | 38.942 | 0.993 | 0.0 | 40.922 | 1.42  | 0.0 | 35.106 | 1.264 | 0.0 | 38.66  | 1.768 |
| 92  | 13741 | 13742 | NS | 1 | 0.0 | 45.33  | 5.987 | 0.0 | 49.34  | 7.225 | 0.0 | 46.404 | 5.736 | 0.0 | 44.103 | 7.37  | 0.0 | 46.361 | 6.255 | 0.0 | 50.428 | 7.135 | 0.0 | 45.121 | 5.885 | 0.0 | 42.699 | 6.874 |
| 93  | 13741 | 13742 | SN | 1 | 0.0 | 43.978 | 3.973 | 0.0 | 45.859 | 5.061 | 0.0 | 39.206 | 3.472 | 0.0 | 39.141 | 5.327 | 0.0 | 42.414 | 3.943 | 0.0 | 45.343 | 5.02  | 0.0 | 40.104 | 3.6   | 0.0 | 38.093 | 5.135 |
| 94  | 13741 | 13742 | SN | 1 | 0.0 | 41.716 | 4.004 | 0.0 | 42.304 | 5.041 | 0.0 | 36.536 | 3.486 | 0.0 | 39.09  | 5.263 | 0.0 | 41.799 | 4.014 | 0.0 | 42.401 | 4.919 | 0.0 | 39.644 | 3.593 | 0.0 | 36.127 | 5.163 |
| 95  | 13741 | 13742 | NS | 1 | 0.0 | 45.33  | 5.49  | 0.0 | 49.34  | 6.565 | 0.0 | 46.404 | 5.234 | 0.0 | 44.103 | 6.67  | 0.0 | 46.361 | 5.745 | 0.0 | 50.428 | 6.483 | 0.0 | 45.121 | 5.405 | 0.0 | 42.699 | 6.236 |
| 96  | 13741 | 13742 | NS | 1 | 0.0 | 45.33  | 5.46  | 0.0 | 49.34  | 6.565 | 0.0 | 46.404 | 5.212 | 0.0 | 44.103 | 6.67  | 0.0 | 46.361 | 5.713 | 0.0 | 50.428 | 6.483 | 0.0 | 45.121 | 5.382 | 0.0 | 42.699 | 6.236 |
| 97  | 13741 | 13742 | NS | 1 | 0.0 | 45.991 | 1.579 | 0.0 | 45.418 | 2.08  | 0.0 | 40.966 | 1.73  | 0.0 | 42.219 | 2.379 | 0.0 | 44.654 | 1.641 | 0.0 | 44.393 | 2.06  | 0.0 | 40.602 | 1.806 | 0.0 | 41.398 | 2.284 |
| 98  | 13741 | 13742 | SN | 1 | 0.0 | 42.355 | 0.991 | 0.0 | 42.903 | 1.513 | 0.0 | 37.184 | 1.241 | 0.0 | 38.656 | 2.0   | 0.0 | 42.133 | 1.007 | 0.0 | 40.489 | 1.422 | 0.0 | 35.306 | 1.204 | 0.0 | 38.614 | 1.729 |
| 99  | 13741 | 13742 | NS | 1 | 0.0 | 45.991 | 1.458 | 0.0 | 45.418 | 1.882 | 0.0 | 40.966 | 1.576 | 0.0 | 42.219 | 2.157 | 0.0 | 44.654 | 1.504 | 0.0 | 44.393 | 1.861 | 0.0 | 40.602 | 1.642 | 0.0 | 41.398 | 2.069 |
| 100 | 13741 | 13742 | NS | 1 | 0.0 | 45.991 | 1.447 | 0.0 | 45.418 | 1.884 | 0.0 | 40.966 | 1.566 | 0.0 | 42.219 | 2.157 | 0.0 | 44.654 | 1.493 | 0.0 | 44.393 | 1.861 | 0.0 | 40.602 | 1.631 | 0.0 | 41.398 | 2.069 |
| 101 | 13742 | 13743 | NS | 1 | 0.0 | 49.39  | 1.371 | 0.0 | 49.484 | 1.647 | 0.0 | 41.938 | 1.579 | 0.0 | 44.1   | 1.984 | 0.0 | 49.925 | 1.346 | 0.0 | 48.637 | 1.506 | 0.0 | 42.052 | 1.497 | 0.0 | 43.251 | 1.733 |
| 102 | 13742 | 13743 | NS | 1 | 0.0 | 49.39  | 1.369 | 0.0 | 49.484 | 1.642 | 0.0 | 41.938 | 1.581 | 0.0 | 44.1   | 1.984 | 0.0 | 49.925 | 1.344 | 0.0 | 48.637 | 1.502 | 0.0 | 42.052 | 1.499 | 0.0 | 43.251 | 1.733 |
| 103 | 13742 | 13743 | SN | 1 | 0.0 | 43.556 | 0.891 | 0.0 | 47.177 | 0.972 | 0.0 | 46.572 | 0.931 | 0.0 | 42.758 | 1.216 | 0.0 | 43.618 | 0.9   | 0.0 | 47.86  | 0.945 | 0.0 | 48.085 | 0.89  | 0.0 | 40.541 | 1.098 |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal | Deviations |
|                          | Range      | 20.0 | 20.0   |        |            |



|     |       |       |    |   |     |        |        |     |        |        |     |        |       |     |        |        |     |        |        |     |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 104 | 13742 | 13743 | SN | 1 | 0.0 | 43.556 | 0.956  | 0.0 | 47.177 | 1.032  | 0.0 | 46.572 | 1.018 | 0.0 | 42.758 | 1.289  | 0.0 | 43.618 | 0.963  | 0.0 | 47.86  | 1.01   | 0.0 | 48.085 | 0.989 | 0.0 | 40.541 | 1.164 |
| 105 | 13742 | 13743 | NS | 1 | 0.0 | 49.39  | 1.595  | 0.0 | 49.484 | 1.913  | 0.0 | 41.938 | 1.707 | 0.0 | 44.1   | 2.26   | 0.0 | 49.925 | 1.561  | 0.0 | 48.637 | 1.749  | 0.0 | 42.052 | 1.635 | 0.0 | 43.251 | 1.982 |
| 106 | 13742 | 13743 | NS | 1 | 0.0 | 49.945 | 4.263  | 0.0 | 51.886 | 5.53   | 0.0 | 44.083 | 5.234 | 0.0 | 50.231 | 6.673  | 0.0 | 50.6   | 4.415  | 0.0 | 52.724 | 5.143  | 0.0 | 44.544 | 4.95  | 0.0 | 48.069 | 5.69  |
| 107 | 13742 | 13743 | NS | 1 | 0.0 | 49.945 | 4.263  | 0.0 | 51.886 | 5.519  | 0.0 | 44.083 | 5.234 | 0.0 | 50.231 | 6.673  | 0.0 | 50.6   | 4.415  | 0.0 | 52.724 | 5.133  | 0.0 | 44.544 | 4.95  | 0.0 | 48.069 | 5.69  |
| 108 | 13742 | 13743 | SN | 1 | 0.0 | 52.443 | 3.158  | 0.0 | 43.721 | 3.688  | 0.0 | 46.22  | 3.193 | 0.0 | 45.188 | 3.911  | 0.0 | 53.368 | 3.26   | 0.0 | 43.673 | 3.514  | 0.0 | 45.126 | 3.073 | 0.0 | 48.317 | 3.56  |
| 109 | 13742 | 13743 | SN | 1 | 0.0 | 52.443 | 3.361  | 0.0 | 42.748 | 3.972  | 0.0 | 42.703 | 3.417 | 0.0 | 45.188 | 4.207  | 0.0 | 53.368 | 3.514  | 0.0 | 42.702 | 3.741  | 0.0 | 42.427 | 3.317 | 0.0 | 44.927 | 3.821 |
| 110 | 13742 | 13743 | NS | 1 | 0.0 | 49.945 | 4.818  | 0.0 | 51.886 | 6.322  | 0.0 | 44.083 | 5.769 | 0.0 | 50.231 | 7.642  | 0.0 | 50.6   | 4.996  | 0.0 | 52.724 | 5.892  | 0.0 | 44.544 | 5.436 | 0.0 | 48.069 | 6.543 |
| 111 | 13743 | 13744 | SN | 1 | 0.0 | 47.23  | 3.195  | 0.0 | 50.55  | 4.166  | 0.0 | 41.511 | 2.365 | 0.0 | 44.807 | 3.181  | 0.0 | 46.941 | 3.307  | 0.0 | 50.538 | 3.799  | 0.0 | 43.783 | 2.209 | 0.0 | 43.56  | 2.724 |
| 112 | 13743 | 13744 | SN | 1 | 0.0 | 47.23  | 3.272  | 0.0 | 50.55  | 4.264  | 0.0 | 41.511 | 2.422 | 0.0 | 48.532 | 3.256  | 0.0 | 46.941 | 3.376  | 0.0 | 50.538 | 3.888  | 0.0 | 43.783 | 2.255 | 0.0 | 44.767 | 2.782 |
| 113 | 13743 | 13744 | SN | 1 | 0.0 | 47.23  | 3.195  | 0.0 | 50.55  | 4.166  | 0.0 | 41.511 | 2.365 | 0.0 | 44.807 | 3.181  | 0.0 | 46.941 | 3.307  | 0.0 | 50.538 | 3.799  | 0.0 | 43.783 | 2.209 | 0.0 | 43.56  | 2.724 |
| 114 | 13743 | 13744 | NS | 1 | 0.0 | 51.544 | 10.553 | 0.0 | 53.664 | 12.056 | 0.0 | 46.149 | 8.466 | 0.0 | 49.795 | 10.458 | 0.0 | 50.875 | 10.725 | 0.0 | 57.01  | 11.712 | 0.0 | 47.919 | 8.636 | 0.0 | 49.765 | 9.99  |
| 115 | 13743 | 13744 | NS | 1 | 0.0 | 50.712 | 10.675 | 0.0 | 55.808 | 12.026 | 0.0 | 46.458 | 8.622 | 0.0 | 52.623 | 10.508 | 0.0 | 50.655 | 10.806 | 0.0 | 57.465 | 11.621 | 0.0 | 47.759 | 8.729 | 0.0 | 52.365 | 9.919 |
| 116 | 13743 | 13744 | SN | 1 | 0.0 | 44.767 | 0.784  | 0.0 | 49.861 | 1.002  | 0.0 | 42.341 | 0.604 | 0.0 | 44.792 | 0.951  | 0.0 | 44.251 | 0.774  | 0.0 | 49.962 | 0.939  | 0.0 | 39.028 | 0.604 | 0.0 | 42.283 | 0.807 |
| 117 | 13743 | 13744 | SN | 1 | 0.0 | 44.767 | 0.765  | 0.0 | 49.861 | 0.977  | 0.0 | 42.341 | 0.591 | 0.0 | 42.849 | 0.929  | 0.0 | 44.251 | 0.752  | 0.0 | 49.962 | 0.92   | 0.0 | 39.028 | 0.586 | 0.0 | 41.385 | 0.784 |
| 118 | 13743 | 13744 | SN | 1 | 0.0 | 44.767 | 0.765  | 0.0 | 49.861 | 0.977  | 0.0 | 42.341 | 0.591 | 0.0 | 42.849 | 0.929  | 0.0 | 44.251 | 0.752  | 0.0 | 49.962 | 0.92   | 0.0 | 39.028 | 0.586 | 0.0 | 41.385 | 0.784 |
| 119 | 13743 | 13744 | NS | 1 | 0.0 | 45.635 | 2.996  | 0.0 | 50.587 | 3.691  | 0.0 | 49.003 | 2.624 | 0.0 | 48.477 | 3.227  | 0.0 | 45.451 | 3.025  | 0.0 | 48.87  | 3.485  | 0.0 | 45.042 | 2.638 | 0.0 | 46.459 | 3.107 |
| 120 | 13743 | 13744 | NS | 1 | 0.0 | 46.322 | 3.007  | 0.0 | 53.932 | 3.679  | 0.0 | 44.012 | 2.601 | 0.0 | 49.648 | 3.248  | 0.0 | 47.137 | 3.046  | 0.0 | 52.312 | 3.467  | 0.0 | 42.825 | 2.624 | 0.0 | 47.631 | 3.154 |
| 121 | 13744 | 13745 | SN | 1 | 0.0 | 40.371 | 1.023  | 0.0 | 51.342 | 1.261  | 0.0 | 43.502 | 0.982 | 0.0 | 38.002 | 1.313  | 0.0 | 41.568 | 1.026  | 0.0 | 53.69  | 1.174  | 0.0 | 40.432 | 0.94  | 0.0 | 36.298 | 1.102 |
| 122 | 13744 | 13745 | SN | 1 | 0.0 | 40.371 | 1.038  | 0.0 | 51.342 | 1.276  | 0.0 | 43.502 | 0.985 | 0.0 | 38.002 | 1.328  | 0.0 | 41.568 | 1.036  | 0.0 | 53.69  | 1.188  | 0.0 | 40.432 | 0.944 | 0.0 | 36.298 | 1.115 |
| 123 | 13744 | 13745 | NS | 1 | 0.0 | 59.6   | 4.576  | 0.0 | 50.64  | 5.948  | 0.0 | 46.063 | 3.837 | 0.0 | 51.125 | 5.452  | 0.0 | 59.458 | 4.748  | 0.0 | 50.221 | 6.019  | 0.0 | 46.217 | 3.979 | 0.0 | 51.422 | 5.629 |
| 124 | 13744 | 13745 | NS | 1 | 0.0 | 60.021 | 4.586  | 0.0 | 50.417 | 5.959  | 0.0 | 46.063 | 3.83  | 0.0 | 51.003 | 5.409  | 0.0 | 59.877 | 4.738  | 0.0 | 49.998 | 6.019  | 0.0 | 46.217 | 3.944 | 0.0 | 51.3   | 5.608 |
| 125 | 13744 | 13745 | SN | 1 | 0.0 | 50.7   | 3.778  | 0.0 | 51.393 | 4.082  | 0.0 | 44.122 | 3.22  | 0.0 | 44.957 | 3.912  | 0.0 | 52.224 | 3.85   | 0.0 | 53.862 | 3.761  | 0.0 | 45.348 | 3.191 | 0.0 | 46.053 | 3.781 |
| 126 | 13744 | 13745 | SN | 1 | 0.0 | 50.677 | 3.778  | 0.0 | 46.73  | 4.072  | 0.0 | 45.182 | 3.249 | 0.0 | 42.853 | 3.89   | 0.0 | 52.312 | 3.819  | 0.0 | 49.197 | 3.772  | 0.0 | 46.409 | 3.206 | 0.0 | 42.898 | 3.781 |
| 127 | 13744 | 13745 | NS | 1 | 0.0 | 47.835 | 1.292  | 0.0 | 46.011 | 1.681  | 0.0 | 40.85  | 1.187 | 0.0 | 47.634 | 1.714  | 0.0 | 47.461 | 1.341  | 0.0 | 46.852 | 1.695  | 0.0 | 42.005 | 1.272 | 0.0 | 44.809 | 1.86  |
| 128 | 13744 | 13745 | NS | 1 | 0.0 | 48.163 | 1.31   | 0.0 | 46.011 | 1.679  | 0.0 | 41.115 | 1.201 | 0.0 | 47.634 | 1.684  | 0.0 | 47.789 | 1.346  | 0.0 | 46.852 | 1.692  | 0.0 | 42.269 | 1.258 | 0.0 | 44.809 | 1.854 |
| 129 | 13744 | 13745 | SN | 1 | 0.0 | 45.304 | 1.036  | 0.0 | 45.757 | 1.276  | 0.0 | 39.591 | 0.966 | 0.0 | 48.724 | 1.337  | 0.0 | 44.93  | 1.04   | 0.0 | 47.377 | 1.184  | 0.0 | 38.415 | 0.912 | 0.0 | 44.173 | 1.12  |
| 130 | 13744 | 13745 | SN | 1 | 0.0 | 50.709 | 3.731  | 0.0 | 51.393 | 4.03   | 0.0 | 46.606 | 3.188 | 0.0 | 44.957 | 3.869  | 0.0 | 52.236 | 3.802  | 0.0 | 53.862 | 3.713  | 0.0 | 47.833 | 3.16  | 0.0 | 46.053 | 3.733 |
| 131 | 13745 | 13746 | SN | 1 | 0.0 | 41.187 | 0.651  | 0.0 | 39.643 | 1.012  | 0.0 | 40.073 | 1.116 | 0.0 | 44.928 | 1.735  | 0.0 | 42.354 | 0.651  | 0.0 | 37.83  | 0.938  | 0.0 | 40.38  | 1.078 | 0.0 | 45.412 | 1.498 |
| 132 | 13745 | 13746 | SN | 1 | 0.0 | 45.66  | 1.947  | 0.0 | 40.448 | 3.425  | 0.0 | 42.744 | 3.031 | 0.0 | 45.845 | 4.699  | 0.0 | 43.925 | 2.009  | 0.0 | 40.134 | 3.196  | 0.0 | 40.905 | 2.901 | 0.0 | 41.811 | 4.27  |
| 133 | 13745 | 13746 | NS | 1 | 0.0 | 39.422 | 0.57   | 0.0 | 43.495 | 0.815  | 0.0 | 40.651 | 0.745 | 0.0 | 45.684 | 1.126  | 0.0 | 40.382 | 0.538  | 0.0 | 43.571 | 0.639  | 0.0 | 38.062 | 0.651 | 0.0 | 42.895 | 0.898 |
| 134 | 13745 | 13746 | NS | 1 | 0.0 | 49.988 | 1.763  | 0.0 | 52.07  | 2.662  | 0.0 | 41.07  | 2.122 | 0.0 | 44.813 | 3.176  | 0.0 | 48.356 | 1.774  | 0.0 | 52.74  | 2.187  | 0.0 | 41.367 | 1.874 | 0.0 | 44.385 | 2.538 |
| 135 | 13746 | 13747 | SN | 1 | 0.0 | 50.287 | 0.751  | 0.0 | 40.398 | 1.007  | 0.0 | 37.526 | 1.044 | 0.0 | 37.878 | 1.528  | 0.0 | 50.072 | 0.731  | 0.0 | 38.848 | 0.907  | 0.0 | 36.644 | 0.92  | 0.0 | 34.716 | 1.337 |
| 136 | 13746 | 13747 | SN | 1 | 0.0 | 51.031 | 2.873  | 0.0 | 41.424 | 3.521  | 0.0 | 40.361 | 2.888 | 0.0 | 39.206 | 4.457  | 0.0 | 50.315 | 2.934  | 0.0 | 39.156 | 3.47   | 0.0 | 37.657 | 2.795 | 0.0 | 39.466 | 3.987 |
| 137 | 13746 | 13747 | SN | 1 | 0.0 | 41.724 | 2.921  | 0.0 | 41.834 | 3.613  | 0.0 | 37.546 | 2.885 | 0.0 | 39.206 | 4.541  | 0.0 | 42.037 | 2.931  | 0.0 | 40.092 | 3.509  | 0.0 | 34.844 | 2.71  | 0.0 | 39.466 | 4.074 |
| 138 | 13747 | 13748 | SN | 1 | 0.0 | 47.494 | 5.712  | 0.0 | 49.838 | 7.695  | 0.0 | 41.125 | 5.328 | 0.0 | 41.733 | 7.047  | 0.0 | 47.681 | 5.844  | 0.0 | 47.949 | 7.428  | 0.0 | 41.602 | 5.463 | 0.0 | 44.519 | 6.795 |
| 139 | 13747 | 13748 | NS | 1 | 0.0 | 47.66  | 3.449  | 0.0 | 56.122 | 4.407  | 0.0 | 48.582 | 3.051 | 0.0 | 46.481 | 4.303  | 0.0 | 48.31  | 3.53   | 0.0 | 54.779 | 4.214  | 0.0 | 47.781 | 2.845 | 0.0 | 47.595 | 3.836 |

| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal | Deviations |
|--------------------------|------------|------|--------|--------|------------|
|                          | Range      | 20.0 | 20.0   |        |            |

|     |       |       |    |   |     |        |       |     |        |        |     |        |       |     |        |       |     |        |       |     |        |        |     |        |       |     |        |       |
|-----|-------|-------|----|---|-----|--------|-------|-----|--------|--------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|--------|-----|--------|-------|-----|--------|-------|
| 140 | 13747 | 13748 | SN | 1 | 0.0 | 45.384 | 1.551 | 0.0 | 44.335 | 2.136  | 0.0 | 40.445 | 1.532 | 0.0 | 41.274 | 2.208 | 0.0 | 46.695 | 1.567 | 0.0 | 42.851 | 2.035  | 0.0 | 36.954 | 1.519 | 0.0 | 40.444 | 2.077 |
| 141 | 13747 | 13748 | NS | 1 | 0.0 | 48.181 | 1.06  | 0.0 | 49.351 | 1.507  | 0.0 | 49.849 | 0.919 | 0.0 | 49.4   | 1.334 | 0.0 | 49.817 | 1.073 | 0.0 | 49.098 | 1.426  | 0.0 | 47.226 | 0.843 | 0.0 | 47.137 | 1.144 |
| 142 | 13748 | 13749 | SN | 1 | 0.0 | 48.245 | 5.116 | 0.0 | 54.725 | 6.124  | 0.0 | 46.181 | 4.647 | 0.0 | 42.502 | 5.343 | 0.0 | 49.75  | 5.198 | 0.0 | 56.538 | 5.981  | 0.0 | 44.569 | 4.59  | 0.0 | 44.225 | 5.157 |
| 143 | 13748 | 13749 | NS | 1 | 0.0 | 52.626 | 1.406 | 0.0 | 45.466 | 1.79   | 0.0 | 39.368 | 1.767 | 0.0 | 38.383 | 2.172 | 0.0 | 54.059 | 1.451 | 0.0 | 44.081 | 1.747  | 0.0 | 39.125 | 1.76  | 0.0 | 39.007 | 1.972 |
| 144 | 13748 | 13749 | SN | 1 | 0.0 | 48.245 | 5.188 | 0.0 | 54.725 | 6.209  | 0.0 | 46.181 | 4.717 | 0.0 | 42.502 | 5.434 | 0.0 | 49.75  | 5.271 | 0.0 | 56.538 | 6.074  | 0.0 | 44.569 | 4.659 | 0.0 | 44.225 | 5.238 |
| 145 | 13748 | 13749 | NS | 1 | 0.0 | 47.241 | 4.381 | 0.0 | 56.312 | 5.497  | 0.0 | 45.163 | 5.077 | 0.0 | 48.667 | 6.679 | 0.0 | 46.964 | 4.502 | 0.0 | 54.373 | 5.335  | 0.0 | 44.812 | 5.077 | 0.0 | 47.572 | 6.289 |
| 146 | 13748 | 13749 | SN | 1 | 0.0 | 45.171 | 1.354 | 0.0 | 44.427 | 1.677  | 0.0 | 42.781 | 1.451 | 0.0 | 41.32  | 1.779 | 0.0 | 44.612 | 1.384 | 0.0 | 42.35  | 1.631  | 0.0 | 43.537 | 1.426 | 0.0 | 39.091 | 1.641 |
| 147 | 13748 | 13749 | SN | 1 | 0.0 | 54.294 | 1.328 | 0.0 | 44.427 | 1.654  | 0.0 | 45.675 | 1.429 | 0.0 | 41.32  | 1.755 | 0.0 | 53.734 | 1.362 | 0.0 | 42.35  | 1.608  | 0.0 | 45.378 | 1.406 | 0.0 | 39.091 | 1.62  |
| 148 | 13749 | 13750 | SN | 1 | 0.0 | 49.037 | 2.163 | 0.0 | 51.413 | 2.776  | 0.0 | 44.877 | 1.756 | 0.0 | 51.0   | 2.186 | 0.0 | 50.634 | 2.234 | 0.0 | 50.76  | 2.739  | 0.0 | 48.061 | 1.81  | 0.0 | 53.198 | 2.113 |
| 149 | 13749 | 13750 | SN | 1 | 0.0 | 48.599 | 9.24  | 0.0 | 50.107 | 10.484 | 0.0 | 51.325 | 6.96  | 0.0 | 47.572 | 7.321 | 0.0 | 49.635 | 9.448 | 0.0 | 49.948 | 10.473 | 0.0 | 48.669 | 6.976 | 0.0 | 47.005 | 7.552 |
| 150 | 13749 | 13750 | SN | 1 | 0.0 | 49.037 | 2.163 | 0.0 | 51.413 | 2.776  | 0.0 | 44.877 | 1.756 | 0.0 | 51.0   | 2.186 | 0.0 | 50.634 | 2.234 | 0.0 | 50.76  | 2.739  | 0.0 | 48.061 | 1.81  | 0.0 | 53.198 | 2.113 |
| 151 | 13749 | 13750 | NS | 1 | 0.0 | 47.182 | 3.926 | 0.0 | 52.822 | 5.962  | 0.0 | 41.656 | 4.595 | 0.0 | 47.614 | 5.97  | 0.0 | 48.922 | 3.896 | 0.0 | 50.27  | 5.466  | 0.0 | 41.754 | 4.602 | 0.0 | 48.351 | 5.381 |
| 152 | 13749 | 13750 | NS | 1 | 0.0 | 46.67  | 1.221 | 0.0 | 47.88  | 1.919  | 0.0 | 44.442 | 1.442 | 0.0 | 40.999 | 2.135 | 0.0 | 47.37  | 1.185 | 0.0 | 49.525 | 1.668  | 0.0 | 44.026 | 1.318 | 0.0 | 40.968 | 1.868 |
| 153 | 13749 | 13750 | NS | 1 | 0.0 | 43.327 | 1.212 | 0.0 | 41.685 | 1.91   | 0.0 | 49.318 | 1.414 | 0.0 | 41.839 | 2.082 | 0.0 | 44.027 | 1.187 | 0.0 | 41.219 | 1.691  | 0.0 | 48.901 | 1.322 | 0.0 | 41.806 | 1.83  |
| 154 | 13749 | 13750 | SN | 1 | 0.0 | 49.037 | 2.005 | 0.0 | 51.413 | 2.578  | 0.0 | 44.877 | 1.633 | 0.0 | 51.0   | 2.052 | 0.0 | 50.634 | 2.07  | 0.0 | 50.76  | 2.549  | 0.0 | 48.061 | 1.679 | 0.0 | 53.198 | 1.966 |
| 155 | 13750 | 13751 | NS | 1 | 0.0 | 40.931 | 0.305 | 0.0 | 45.312 | 0.54   | 0.0 | 40.063 | 0.513 | 0.0 | 39.877 | 0.983 | 0.0 | 41.351 | 0.321 | 0.0 | 45.099 | 0.492  | 0.0 | 40.864 | 0.477 | 0.0 | 41.157 | 0.714 |
| 156 | 13750 | 13751 | SN | 1 | 0.0 | 42.386 | 2.248 | 0.0 | 45.129 | 2.796  | 0.0 | 48.243 | 2.012 | 0.0 | 47.487 | 2.34  | 0.0 | 41.384 | 2.316 | 0.0 | 45.472 | 2.713  | 0.0 | 49.228 | 2.016 | 0.0 | 45.338 | 2.32  |

|                          |            |      |        |        |            |
|--------------------------|------------|------|--------|--------|------------|
| Parameter Specifications | Parameters | SNR  | Sigma0 | Normal | Deviations |
|                          | Range      | 20.0 | 20.0   |        |            |

| Sr No | Start Orbit | End Orbit | Dir. | Ver. | Azimuth Angle |         |            |            |         |            |           |         |            |            |         |            | Incidence Angle |       |            |            |     |            |           |     |            |            |     |            |
|-------|-------------|-----------|------|------|---------------|---------|------------|------------|---------|------------|-----------|---------|------------|------------|---------|------------|-----------------|-------|------------|------------|-----|------------|-----------|-----|------------|------------|-----|------------|
|       |             |           |      |      | Inner Aft     |         |            | Inner Fore |         |            | Outer Aft |         |            | Outer Fore |         |            | Inner Aft       |       |            | Inner Fore |     |            | Outer Aft |     |            | Outer Fore |     |            |
|       |             |           |      |      | 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     | 13728       | 13729     | SN   | 1    | 0.0           | 19.203  | 4.647      | 0.0        | 20.918  | 6.314      | 0.0       | 68.794  | 0.853      | 0.0        | 61.376  | 1.728      | 0.0             | 1.355 | 0.0        | 1.729      | 0.0 | 0.0        | 1.795     | 0.0 | 0.0        | 2.08       | 0.0 |            |
| 2     | 13728       | 13729     | SN   | 1    | 0.0           | 27.2    | 12.473     | 0.0        | 24.409  | 12.862     | 0.0       | 72.258  | 7.036      | 0.0        | 81.451  | 9.745      | 0.0             | 1.383 | 0.0        | 1.731      | 0.0 | 0.0        | 1.8       | 0.0 | 2.082      | 0.0        |     |            |
| 3     | 13728       | 13729     | SN   | 1    | 0.0           | 27.2    | 12.473     | 0.0        | 24.409  | 12.862     | 0.0       | 72.258  | 7.036      | 0.0        | 81.451  | 9.745      | 0.0             | 1.383 | 0.0        | 1.731      | 0.0 | 0.0        | 1.8       | 0.0 | 2.082      | 0.0        |     |            |
| 4     | 13728       | 13729     | SN   | 1    | 0.0           | 19.203  | 4.657      | 0.0        | 18.04   | 6.205      | 0.0       | 68.794  | 0.886      | 0.0        | 11.543  | 1.505      | 0.0             | 1.355 | 0.0        | 1.729      | 0.0 | 0.0        | 1.795     | 0.0 | 2.08       | 0.0        |     |            |
| 5     | 13728       | 13729     | SN   | 1    | 0.0           | 27.2    | 12.501     | 0.0        | 23.262  | 12.487     | 0.0       | 72.258  | 7.19       | 0.0        | 14.289  | 8.785      | 0.0             | 1.383 | 0.0        | 1.731      | 0.0 | 0.0        | 1.8       | 0.0 | 2.082      | 0.0        |     |            |
| 6     | 13728       | 13729     | SN   | 1    | 0.0           | 19.203  | 4.647      | 0.0        | 20.918  | 6.314      | 0.0       | 68.794  | 0.853      | 0.0        | 61.376  | 1.728      | 0.0             | 1.355 | 0.0        | 1.729      | 0.0 | 0.0        | 1.795     | 0.0 | 2.08       | 0.0        |     |            |
| 7     | 13729       | 13730     | NS   | 1    | 0.0           | 22.887  | 7.11       | 0.0        | 25.65   | 8.811      | 0.0       | 217.589 | 4.584      | 0.0        | 126.244 | 5.647      | 0.0             | 1.431 | 0.0        | 1.822      | 0.0 | 0.0        | 1.898     | 0.0 | 2.182      | 0.0        |     |            |
| 8     | 13729       | 13730     | NS   | 1    | 0.0           | 25.419  | 10.766     | 0.0        | 29.527  | 15.771     | 0.0       | 200.898 | 13.119     | 0.0        | 180.776 | 15.292     | 0.0             | 1.405 | 0.0        | 1.824      | 0.0 | 0.0        | 1.871     | 0.0 | 2.18       | 0.0        |     |            |
| 9     | 13729       | 13730     | NS   | 1    | 0.0           | 25.419  | 10.766     | 0.0        | 29.527  | 15.771     | 0.0       | 200.898 | 13.119     | 0.0        | 180.776 | 15.292     | 0.0             | 1.405 | 0.0        | 1.824      | 0.0 | 0.0        | 1.871     | 0.0 | 2.18       | 0.0        |     |            |
| 10    | 13729       | 13730     | SN   | 1    | 0.0           | 29.494  | 12.459     | 0.0        | 23.279  | 12.624     | 0.0       | 84.628  | 6.942      | 0.0        | 17.267  | 9.206      | 0.0             | 1.395 | 0.0        | 1.731      | 0.0 | 0.0        | 1.795     | 0.0 | 2.082      | 0.0        |     |            |
| 11    | 13729       | 13730     | SN   | 1    | 0.0           | 29.494  | 12.445     | 0.0        | 24.332  | 12.808     | 0.0       | 84.628  | 6.891      | 0.0        | 43.023  | 9.556      | 0.0             | 1.395 | 0.0        | 1.731      | 0.0 | 0.0        | 1.795     | 0.0 | 2.082      | 0.0        |     |            |
| 12    | 13729       | 13730     | SN   | 1    | 0.0           | 29.494  | 12.445     | 0.0        | 24.332  | 12.808     | 0.0       | 84.628  | 6.891      | 0.0        | 43.023  | 9.556      | 0.0             | 1.395 | 0.0        | 1.731      | 0.0 | 0.0        | 1.795     | 0.0 | 2.082      | 0.0        |     |            |
| 13    | 13729       | 13730     | NS   | 1    | 0.0           | 22.887  | 7.11       | 0.0        | 25.65   | 8.811      | 0.0       | 217.589 | 4.584      | 0.0        | 126.244 | 5.647      | 0.0             | 1.431 | 0.0        | 1.822      | 0.0 | 0.0        | 1.898     | 0.0 | 2.182      | 0.0        |     |            |
| 14    | 13729       | 13730     | SN   | 1    | 0.0           | 24.476  | 4.632      | 0.0        | 161.377 | 6.239      | 0.0       | 78.269  | 0.79       | 0.0        | 38.644  | 1.681      | 0.0             | 1.345 | 0.0        | 1.729      | 0.0 | 0.0        | 1.806     | 0.0 | 2.08       | 0.0        |     |            |
| 15    | 13729       | 13730     | SN   | 1    | 0.0           | 24.476  | 4.632      | 0.0        | 161.377 | 6.239      | 0.0       | 78.269  | 0.79       | 0.0        | 38.644  | 1.681      | 0.0             | 1.345 | 0.0        | 1.729      | 0.0 | 0.0        | 1.806     | 0.0 | 2.08       | 0.0        |     |            |
| 16    | 13729       | 13730     | SN   | 1    | 0.0           | 24.476  | 4.65       | 0.0        | 161.377 | 6.213      | 0.0       | 78.269  | 0.796      | 0.0        | 12.988  | 1.547      | 0.0             | 1.345 | 0.0        | 1.729      | 0.0 | 0.0        | 1.806     | 0.0 | 2.08       | 0.0        |     |            |
| 17    | 13730       | 13731     | NS   | 1    | 0.0           | 150.822 | 10.773     | 0.0        | 29.279  | 15.774     | 0.0       | 351.33  | 13.082     | 0.0        | 144.339 | 15.235     | 0.0             | 1.41  | 0.0        | 1.822      | 0.0 | 0.0        | 1.889     | 0.0 | 2.181      | 0.0        |     |            |
| 18    | 13730       | 13731     | SN   | 1    | 0.0           | 23.036  | 4.601      | 0.0        | 267.977 | 6.229      | 0.0       | 47.148  | 0.761      | 0.0        | 43.05   | 1.708      | 0.0             | 1.353 | 0.0        | 1.73       | 0.0 | 0.0        | 1.809     | 0.0 | 2.081      | 0.0        |     |            |
| 19    | 13730       | 13731     | SN   | 1    | 0.0           | 28.165  | 12.369     | 0.0        | 277.038 | 12.729     | 0.0       | 79.752  | 6.66       | 0.0        | 42.736  | 9.596      | 0.0             | 1.37  | 0.0        | 1.731      | 0.0 | 0.0        | 1.796     | 0.0 | 2.081      | 0.0        |     |            |
| 20    | 13730       | 13731     | NS   | 1    | 0.0           | 153.168 | 7.11       | 0.0        | 25.65   | 8.779      | 0.0       | 350.641 | 4.54       | 0.0        | 133.634 | 5.647      | 0.0             | 1.429 | 0.0        | 1.822      | 0.0 | 0.0        | 1.896     | 0.0 | 2.182      | 0.0        |     |            |
| 21    | 13730       | 13731     | SN   | 1    | 0.0           | 28.165  | 12.401     | 0.0        | 277.038 | 12.582     | 0.0       | 79.752  | 6.676      | 0.0        | 19.518  | 9.299      | 0.0             | 1.37  | 0.0        | 1.731      | 0.0 | 0.0        | 1.796     | 0.0 | 2.081      | 0.0        |     |            |
| 22    | 13730       | 13731     | NS   | 1    | 0.0           | 154.508 | 7.106      | 0.0        | 25.65   | 8.779      | 0.0       | 355.605 | 4.532      | 0.0        | 115.589 | 5.628      | 0.0             | 1.425 | 0.0        | 1.821      | 0.0 | 0.0        | 1.895     | 0.0 | 2.181      | 0.0        |     |            |
| 23    | 13730       | 13731     | SN   | 1    | 0.0           | 28.165  | 12.38      | 0.0        | 277.038 | 12.582     | 0.0       | 79.752  | 6.676      | 0.0        | 19.518  | 9.299      | 0.0             | 1.37  | 0.0        | 1.731      | 0.0 | 0.0        | 1.796     | 0.0 | 2.081      | 0.0        |     |            |
| 24    | 13730       | 13731     | NS   | 1    | 0.0           | 209.556 | 10.766     | 0.0        | 29.555  | 15.8       | 0.0       | 144.082 | 13.069     | 0.0        | 186.716 | 15.229     | 0.0             | 1.404 | 0.0        | 1.824      | 0.0 | 0.0        | 1.871     | 0.0 | 2.179      | 0.0        |     |            |
| 25    | 13730       | 13731     | SN   | 1    | 0.0           | 23.036  | 4.61       | 0.0        | 267.977 | 6.207      | 0.0       | 47.148  | 0.759      | 0.0        | 14.218  | 1.593      | 0.0             | 1.353 | 0.0        | 1.73       | 0.0 | 0.0        | 1.809     | 0.0 | 2.081      | 0.0        |     |            |
| 26    | 13730       | 13731     | SN   | 1    | 0.0           | 23.036  | 4.61       | 0.0        | 267.977 | 6.2        | 0.0       | 47.142  | 0.763      | 0.0        | 14.218  | 1.593      | 0.0             | 1.351 | 0.0        | 1.73       | 0.0 | 0.0        | 1.809     | 0.0 | 2.081      | 0.0        |     |            |
| 27    | 13731       | 13732     | NS   | 1    | 0.0           | 148.472 | 10.581     | 0.0        | 29.13   | 15.592     | 0.0       | 351.981 | 12.936     | 0.0        | 64.04   | 15.081     | 0.0             | 1.411 | 0.0        | 1.821      | 0.0 | 0.0        | 1.885     | 0.0 | 2.182      | 0.0        |     |            |
| 28    | 13731       | 13732     | NS   | 1    | 0.0           | 122.629 | 7.08       | 0.0        | 25.639  | 8.717      | 0.0       | 355.836 | 4.414      | 0.0        | 112.809 | 5.549      | 0.0             | 1.436 | 0.0        | 1.83       | 0.0 | 0.0        | 1.896     | 0.0 | 2.182      | 0.0        |     |            |
| 29    | 13731       | 13732     | SN   | 1    | 0.0           | 23.058  | 4.69       | 0.0        | 18.519  | 6.281      | 0.0       | 51.174  | 0.834      | 0.0        | 12.039  | 1.624      | 0.0             | 1.355 | 0.0        | 1.73       | 0.0 | 0.0        | 1.809     | 0.0 | 2.082      | 0.0        |     |            |
| 30    | 13731       | 13732     | SN   | 1    | 0.0           | 28.165  | 12.425     | 0.0        | 23.279  | 12.609     | 0.0       | 77.409  | 6.954      | 0.0        | 16.33   | 9.471      | 0.0             | 1.387 | 0.0        | 1.732      | 0.0 | 0.0        | 1.803     | 0.0 | 2.081      | 0.0        |     |            |
| 31    | 13733       | 13734     | NS   | 1    | 0.0           | 22.887  | 7.119      | 0.0        | 25.661  | 8.752      | 0.0       | 353.978 | 4.517      | 0.0        | 132.867 | 5.587      | 0.0             | 1.429 | 0.0        | 1.823      | 0.0 | 0.0        | 1.898     | 0.0 | 2.181      | 0.0        |     |            |

|                          |            |           |            |        |            |
|--------------------------|------------|-----------|------------|--------|------------|
| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal | Deviations |
|                          | Range      | 10.0      | 3.0        |        |            |

|    |       |       |    |   |     |         |        |       |         |        |     |         |        |     |         |        |     |       |     |       |       |     |     |       |     |     |       |     |
|----|-------|-------|----|---|-----|---------|--------|-------|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-------|-------|-----|-----|-------|-----|-----|-------|-----|
| 32 | 13733 | 13734 | SN | 1 | 0.0 | 37.177  | 12.379 | 0.0   | 23.279  | 12.434 | 0.0 | 74.276  | 6.896  | 0.0 | 126.718 | 8.902  | 0.0 | 1.36  | 0.0 | 0.0   | 1.731 | 0.0 | 0.0 | 1.801 | 0.0 | 0.0 | 2.08  | 0.0 |
| 33 | 13733 | 13734 | NS | 1 | 0.0 | 26.003  | 10.654 | 0.0   | 29.218  | 15.739 | 0.0 | 353.978 | 13.092 | 0.0 | 194.652 | 15.159 | 0.0 | 1.411 | 0.0 | 0.0   | 1.822 | 0.0 | 0.0 | 1.888 | 0.0 | 0.0 | 2.182 | 0.0 |
| 34 | 13733 | 13734 | SN | 1 | 0.0 | 23.51   | 4.673  | 0.0   | 18.051  | 6.191  | 0.0 | 66.356  | 0.827  | 0.0 | 186.275 | 1.571  | 0.0 | 1.357 | 0.0 | 0.0   | 1.729 | 0.0 | 0.0 | 1.792 | 0.0 | 0.0 | 2.081 | 0.0 |
| 35 | 13734 | 13735 | SN | 1 | 0.0 | 23.031  | 4.493  | 0.0   | 199.42  | 6.442  | 0.0 | 10.407  | 0.658  | 0.0 | 11.377  | 1.634  | 0.0 | 1.361 | 0.0 | 0.0   | 1.729 | 0.0 | 0.0 | 1.801 | 0.0 | 0.0 | 2.081 | 0.0 |
| 36 | 13734 | 13735 | SN | 1 | 0.0 | 23.031  | 4.488  | 0.0   | 20.858  | 6.568  | 0.0 | 10.71   | 0.616  | 0.0 | 49.508  | 1.899  | 0.0 | 1.361 | 0.0 | 0.0   | 1.729 | 0.0 | 0.0 | 1.801 | 0.0 | 0.0 | 2.081 | 0.0 |
| 37 | 13734 | 13735 | SN | 1 | 0.0 | 23.031  | 4.478  | 0.0   | 199.42  | 6.568  | 0.0 | 10.71   | 0.627  | 0.0 | 49.508  | 1.901  | 0.0 | 1.361 | 0.0 | 0.0   | 1.729 | 0.0 | 0.0 | 1.801 | 0.0 | 0.0 | 2.081 | 0.0 |
| 38 | 13734 | 13735 | SN | 1 | 0.0 | 28.093  | 11.466 | 0.0   | 218.121 | 12.721 | 0.0 | 12.221  | 6.025  | 0.0 | 13.716  | 9.218  | 0.0 | 1.377 | 0.0 | 0.0   | 1.732 | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.081 | 0.0 |
| 39 | 13734 | 13735 | SN | 1 | 0.0 | 28.093  | 11.5   | 0.0   | 218.121 | 13.255 | 0.0 | 12.221  | 5.908  | 0.0 | 67.564  | 10.409 | 0.0 | 1.377 | 0.0 | 0.0   | 1.732 | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.081 | 0.0 |
| 40 | 13734 | 13735 | SN | 1 | 0.0 | 28.099  | 11.5   | 0.0   | 24.288  | 13.232 | 0.0 | 12.221  | 5.893  | 0.0 | 67.564  | 10.433 | 0.0 | 1.387 | 0.0 | 0.0   | 1.731 | 0.0 | 0.0 | 1.787 | 0.0 | 0.0 | 2.081 | 0.0 |
| 41 | 13735 | 13736 | SN | 1 | 0.0 | 23.003  | 4.685  | 0.0   | 18.051  | 6.189  | 0.0 | 78.611  | 0.881  | 0.0 | 11.4    | 1.482  | 0.0 | 1.355 | 0.0 | 0.0   | 1.728 | 0.0 | 0.0 | 1.806 | 0.0 | 0.0 | 2.08  | 0.0 |
| 42 | 13735 | 13736 | SN | 1 | 0.0 | 28.055  | 12.439 | 0.662 | 23.279  | 12.899 | 0.0 | 76.25   | 6.927  | 0.0 | 63.582  | 9.722  | 0.0 | 1.395 | 0.0 | 0.003 | 1.729 | 0.0 | 0.0 | 1.81  | 0.0 | 0.0 | 2.081 | 0.0 |
| 43 | 13735 | 13736 | SN | 1 | 0.0 | 23.003  | 4.663  | 0.0   | 20.844  | 6.318  | 0.0 | 78.611  | 0.838  | 0.0 | 43.921  | 1.741  | 0.0 | 1.355 | 0.0 | 0.0   | 1.728 | 0.0 | 0.0 | 1.806 | 0.0 | 0.0 | 2.08  | 0.0 |
| 44 | 13735 | 13736 | NS | 1 | 0.0 | 22.887  | 7.125  | 0.0   | 26.218  | 8.753  | 0.0 | 331.168 | 4.536  | 0.0 | 132.079 | 5.516  | 0.0 | 1.424 | 0.0 | 0.0   | 1.831 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.184 | 0.0 |
| 45 | 13735 | 13736 | NS | 1 | 0.0 | 22.887  | 7.125  | 0.0   | 26.218  | 8.753  | 0.0 | 331.168 | 4.534  | 0.0 | 132.079 | 5.518  | 0.0 | 1.424 | 0.0 | 0.0   | 1.831 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.184 | 0.0 |
| 46 | 13735 | 13736 | NS | 1 | 0.0 | 25.992  | 10.706 | 0.0   | 29.092  | 15.712 | 0.0 | 202.481 | 12.894 | 0.0 | 142.783 | 15.201 | 0.0 | 1.407 | 0.0 | 0.0   | 1.824 | 0.0 | 0.0 | 1.873 | 0.0 | 0.0 | 2.182 | 0.0 |
| 47 | 13735 | 13736 | SN | 1 | 0.0 | 28.055  | 12.476 | 0.662 | 23.279  | 12.413 | 0.0 | 76.25   | 7.122  | 0.0 | 13.622  | 8.573  | 0.0 | 1.395 | 0.0 | 0.003 | 1.729 | 0.0 | 0.0 | 1.81  | 0.0 | 0.0 | 2.081 | 0.0 |
| 48 | 13735 | 13736 | NS | 1 | 0.0 | 25.992  | 10.706 | 0.0   | 29.092  | 15.712 | 0.0 | 202.481 | 12.894 | 0.0 | 142.783 | 15.201 | 0.0 | 1.407 | 0.0 | 0.0   | 1.824 | 0.0 | 0.0 | 1.873 | 0.0 | 0.0 | 2.182 | 0.0 |
| 49 | 13735 | 13736 | SN | 1 | 0.0 | 23.003  | 4.663  | 0.0   | 20.844  | 6.318  | 0.0 | 78.611  | 0.838  | 0.0 | 43.921  | 1.741  | 0.0 | 1.355 | 0.0 | 0.0   | 1.728 | 0.0 | 0.0 | 1.806 | 0.0 | 0.0 | 2.08  | 0.0 |
| 50 | 13735 | 13736 | SN | 1 | 0.0 | 28.055  | 12.439 | 0.662 | 23.279  | 12.899 | 0.0 | 76.25   | 6.927  | 0.0 | 63.582  | 9.722  | 0.0 | 1.395 | 0.0 | 0.003 | 1.729 | 0.0 | 0.0 | 1.81  | 0.0 | 0.0 | 2.081 | 0.0 |
| 51 | 13736 | 13737 | NS | 1 | 0.0 | 259.037 | 7.187  | 0.0   | 25.667  | 8.779  | 0.0 | 350.498 | 4.649  | 0.0 | 106.087 | 5.65   | 0.0 | 1.418 | 0.0 | 0.0   | 1.823 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.183 | 0.0 |
| 52 | 13736 | 13737 | SN | 1 | 0.0 | 28.11   | 12.436 | 0.0   | 24.249  | 12.815 | 0.0 | 82.692  | 6.874  | 0.0 | 47.418  | 9.587  | 0.0 | 1.37  | 0.0 | 0.0   | 1.729 | 0.0 | 0.0 | 1.802 | 0.0 | 0.0 | 2.081 | 0.0 |
| 53 | 13736 | 13737 | SN | 1 | 0.0 | 28.11   | 12.445 | 0.0   | 24.249  | 12.816 | 0.0 | 82.73   | 6.867  | 0.0 | 48.416  | 9.601  | 0.0 | 1.37  | 0.0 | 0.0   | 1.729 | 0.0 | 0.0 | 1.802 | 0.0 | 0.0 | 2.081 | 0.0 |
| 54 | 13736 | 13737 | NS | 1 | 0.0 | 145.946 | 10.773 | 0.0   | 31.502  | 15.761 | 0.0 | 242.795 | 12.857 | 0.0 | 125.163 | 15.251 | 0.0 | 1.399 | 0.0 | 0.0   | 1.824 | 0.0 | 0.0 | 1.872 | 0.0 | 0.0 | 2.181 | 0.0 |
| 55 | 13736 | 13737 | NS | 1 | 0.0 | 57.866  | 10.791 | 0.0   | 31.502  | 15.804 | 0.0 | 351.507 | 12.878 | 0.0 | 109.881 | 15.235 | 0.0 | 1.409 | 0.0 | 0.0   | 1.822 | 0.0 | 0.0 | 1.891 | 0.0 | 0.0 | 2.182 | 0.0 |
| 56 | 13736 | 13737 | SN | 1 | 0.0 | 22.992  | 4.602  | 0.0   | 20.833  | 6.241  | 0.0 | 64.145  | 0.811  | 0.0 | 38.528  | 1.709  | 0.0 | 1.358 | 0.0 | 0.0   | 1.728 | 0.0 | 0.0 | 1.797 | 0.0 | 0.0 | 2.079 | 0.0 |
| 57 | 13736 | 13737 | SN | 1 | 0.0 | 22.992  | 4.602  | 0.0   | 20.839  | 6.247  | 0.0 | 64.117  | 0.811  | 0.0 | 38.539  | 1.702  | 0.0 | 1.358 | 0.0 | 0.0   | 1.728 | 0.0 | 0.0 | 1.797 | 0.0 | 0.0 | 2.08  | 0.0 |
| 58 | 13736 | 13737 | NS | 1 | 0.0 | 240.231 | 7.196  | 0.0   | 25.65   | 8.788  | 0.0 | 355.439 | 4.663  | 0.0 | 106.087 | 5.667  | 0.0 | 1.427 | 0.0 | 0.0   | 1.823 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.184 | 0.0 |
| 59 | 13737 | 13738 | NS | 1 | 0.0 | 22.882  | 7.209  | 0.0   | 25.639  | 8.825  | 0.0 | 355.792 | 4.618  | 0.0 | 113.686 | 5.665  | 0.0 | 1.427 | 0.0 | 0.0   | 1.822 | 0.0 | 0.0 | 1.897 | 0.0 | 0.0 | 2.182 | 0.0 |
| 60 | 13737 | 13738 | SN | 1 | 0.0 | 28.138  | 12.367 | 0.0   | 125.017 | 12.874 | 0.0 | 77.773  | 6.962  | 0.0 | 63.136  | 9.68   | 0.0 | 1.386 | 0.0 | 0.0   | 1.731 | 0.0 | 0.0 | 1.797 | 0.0 | 0.0 | 2.078 | 0.0 |
| 61 | 13737 | 13738 | SN | 1 | 0.0 | 23.025  | 4.612  | 0.0   | 259.737 | 6.282  | 0.0 | 57.764  | 0.836  | 0.0 | 45.19   | 1.717  | 0.0 | 1.344 | 0.0 | 0.0   | 1.729 | 0.0 | 0.0 | 1.804 | 0.0 | 0.0 | 2.079 | 0.0 |
| 62 | 13737 | 13738 | NS | 1 | 0.0 | 22.882  | 7.209  | 0.0   | 25.639  | 8.825  | 0.0 | 355.792 | 4.618  | 0.0 | 113.686 | 5.665  | 0.0 | 1.427 | 0.0 | 0.0   | 1.822 | 0.0 | 0.0 | 1.897 | 0.0 | 0.0 | 2.182 | 0.0 |
| 63 | 13737 | 13738 | NS | 1 | 0.0 | 25.987  | 10.791 | 0.0   | 29.169  | 15.773 | 0.0 | 355.792 | 12.883 | 0.0 | 147.796 | 15.278 | 0.0 | 1.411 | 0.0 | 0.0   | 1.823 | 0.0 | 0.0 | 1.889 | 0.0 | 0.0 | 2.182 | 0.0 |
| 64 | 13737 | 13738 | NS | 1 | 0.0 | 25.987  | 10.791 | 0.0   | 29.169  | 15.773 | 0.0 | 355.792 | 12.883 | 0.0 | 147.796 | 15.278 | 0.0 | 1.411 | 0.0 | 0.0   | 1.823 | 0.0 | 0.0 | 1.889 | 0.0 | 0.0 | 2.182 | 0.0 |
| 65 | 13738 | 13739 | SN | 1 | 0.0 | 23.014  | 4.61   | 0.0   | 237.338 | 6.262  | 0.0 | 56.275  | 0.826  | 0.0 | 248.87  | 1.692  | 0.0 | 1.359 | 0.0 | 0.0   | 1.728 | 0.0 | 0.0 | 1.804 | 0.0 | 0.0 | 2.079 | 0.0 |
| 66 | 13738 | 13739 | NS | 1 | 0.0 | 25.992  | 10.758 | 0.0   | 29.202  | 15.754 | 0.0 | 247.191 | 12.752 | 0.0 | 150.063 | 15.193 | 0.0 | 1.41  | 0.0 | 0.0   | 1.823 | 0.0 | 0.0 | 1.89  | 0.0 | 0.0 | 2.183 | 0.0 |
| 67 | 13738 | 13739 | NS | 1 | 0.0 | 58.407  | 7.187  | 0.0   | 25.639  | 8.811  | 0.0 | 149.084 | 4.59   | 0.0 | 121.358 | 5.65   | 0.0 | 1.426 | 0.0 | 0.0   | 1.823 | 0.0 | 0.0 | 1.897 | 0.0 | 0.0 | 2.183 | 0.0 |
| 68 | 13738 | 13739 | NS | 1 | 0.0 | 22.882  | 7.187  | 0.0   | 25.639  | 8.811  | 0.0 | 149.084 | 4.59   | 0.0 | 121.38  | 5.648  | 0.0 | 1.426 | 0.0 | 0.0   | 1.823 | 0.0 | 0.0 | 1.897 | 0.0 | 0.0 | 2.183 | 0.0 |

|                          |            |           |            |          |             |
|--------------------------|------------|-----------|------------|----------|-------------|
| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal   | Deviations  |
|                          | Range      | 10.0      | 3.0        | Alarming | High Errors |



|     |       |       |    |   |     |         |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 69  | 13738 | 13739 | NS | 1 | 0.0 | 25.992  | 10.758 | 0.0 | 29.202  | 15.744 | 0.0 | 247.191 | 12.759 | 0.0 | 150.08  | 15.193 | 0.0 | 1.41  | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.89  | 0.0 | 0.0 | 2.183 | 0.0 |
| 70  | 13738 | 13739 | SN | 1 | 0.0 | 23.014  | 4.61   | 0.0 | 237.338 | 6.262  | 0.0 | 56.275  | 0.826  | 0.0 | 248.87  | 1.692  | 0.0 | 1.359 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.804 | 0.0 | 0.0 | 2.079 | 0.0 |
| 71  | 13738 | 13739 | SN | 1 | 0.0 | 28.507  | 12.342 | 0.0 | 84.063  | 12.808 | 0.0 | 75.892  | 6.872  | 0.0 | 70.41   | 9.674  | 0.0 | 1.388 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.798 | 0.0 | 0.0 | 2.078 | 0.0 |
| 72  | 13738 | 13739 | SN | 1 | 0.0 | 28.507  | 12.342 | 0.0 | 84.063  | 12.808 | 0.0 | 75.892  | 6.872  | 0.0 | 70.41   | 9.674  | 0.0 | 1.388 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.798 | 0.0 | 0.0 | 2.078 | 0.0 |
| 73  | 13739 | 13740 | SN | 1 | 0.0 | 28.237  | 12.401 | 0.0 | 23.588  | 12.808 | 0.0 | 73.195  | 6.988  | 0.0 | 65.105  | 9.745  | 0.0 | 1.387 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.792 | 0.0 | 0.0 | 2.08  | 0.0 |
| 74  | 13739 | 13740 | NS | 1 | 0.0 | 70.043  | 7.261  | 0.0 | 25.667  | 8.829  | 0.0 | 172.203 | 4.666  | 0.0 | 136.232 | 5.706  | 0.0 | 1.434 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.184 | 0.0 |
| 75  | 13739 | 13740 | NS | 1 | 0.0 | 70.143  | 10.783 | 0.0 | 29.577  | 15.779 | 0.0 | 165.161 | 12.794 | 0.0 | 129.277 | 15.347 | 0.0 | 1.403 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.887 | 0.0 | 0.0 | 2.183 | 0.0 |
| 76  | 13739 | 13740 | NS | 1 | 0.0 | 70.143  | 10.804 | 0.0 | 29.075  | 15.588 | 0.0 | 165.161 | 12.987 | 0.0 | 17.869  | 15.077 | 0.0 | 1.403 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.887 | 0.0 | 0.0 | 2.183 | 0.0 |
| 77  | 13739 | 13740 | SN | 1 | 0.0 | 28.237  | 12.401 | 0.0 | 23.588  | 12.808 | 0.0 | 73.195  | 6.988  | 0.0 | 65.105  | 9.745  | 0.0 | 1.387 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.792 | 0.0 | 0.0 | 2.08  | 0.0 |
| 78  | 13739 | 13740 | NS | 1 | 0.0 | 70.043  | 7.331  | 0.0 | 25.667  | 8.866  | 0.0 | 172.203 | 4.755  | 0.0 | 16.744  | 5.667  | 0.0 | 1.434 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.184 | 0.0 |
| 79  | 13739 | 13740 | NS | 1 | 0.0 | 70.143  | 10.783 | 0.0 | 29.577  | 15.779 | 0.0 | 165.161 | 12.794 | 0.0 | 129.277 | 15.347 | 0.0 | 1.403 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.887 | 0.0 | 0.0 | 2.183 | 0.0 |
| 80  | 13739 | 13740 | NS | 1 | 0.0 | 70.043  | 7.261  | 0.0 | 25.667  | 8.829  | 0.0 | 172.203 | 4.666  | 0.0 | 136.232 | 5.706  | 0.0 | 1.434 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.184 | 0.0 |
| 81  | 13739 | 13740 | SN | 1 | 0.0 | 23.031  | 4.622  | 0.0 | 21.575  | 6.255  | 0.0 | 53.203  | 0.844  | 0.0 | 67.893  | 1.719  | 0.0 | 1.361 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.807 | 0.0 | 0.0 | 2.079 | 0.0 |
| 82  | 13739 | 13740 | SN | 1 | 0.0 | 23.031  | 4.622  | 0.0 | 21.575  | 6.255  | 0.0 | 53.203  | 0.844  | 0.0 | 67.893  | 1.719  | 0.0 | 1.361 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.807 | 0.0 | 0.0 | 2.079 | 0.0 |
| 83  | 13740 | 13741 | NS | 1 | 0.0 | 162.216 | 10.852 | 0.0 | 29.086  | 15.23  | 0.0 | 229.372 | 13.139 | 0.0 | 16.887  | 14.538 | 0.0 | 1.396 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.889 | 0.0 | 0.0 | 2.183 | 0.0 |
| 84  | 13740 | 13741 | NS | 1 | 0.0 | 235.234 | 7.234  | 0.0 | 26.61   | 8.767  | 0.0 | 178.176 | 4.688  | 0.0 | 141.151 | 5.619  | 0.0 | 1.432 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.184 | 0.0 |
| 85  | 13740 | 13741 | NS | 1 | 0.0 | 235.234 | 7.227  | 0.0 | 26.61   | 8.767  | 0.0 | 178.176 | 4.684  | 0.0 | 141.151 | 5.618  | 0.0 | 1.432 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.184 | 0.0 |
| 86  | 13740 | 13741 | NS | 1 | 0.0 | 162.216 | 10.758 | 0.0 | 29.588  | 15.692 | 0.0 | 229.372 | 12.636 | 0.0 | 133.673 | 15.195 | 0.0 | 1.396 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.889 | 0.0 | 0.0 | 2.183 | 0.0 |
| 87  | 13740 | 13741 | SN | 1 | 0.0 | 28.446  | 12.439 | 0.0 | 23.643  | 12.869 | 0.0 | 87.418  | 6.927  | 0.0 | 45.543  | 9.606  | 0.0 | 1.391 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.796 | 0.0 | 0.0 | 2.079 | 0.0 |
| 88  | 13740 | 13741 | SN | 1 | 0.0 | 23.009  | 4.6    | 0.0 | 21.575  | 6.233  | 0.0 | 75.815  | 0.84   | 0.0 | 44.186  | 1.718  | 0.0 | 1.361 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.79  | 0.0 | 0.0 | 2.079 | 0.0 |
| 89  | 13740 | 13741 | NS | 1 | 0.0 | 235.234 | 7.415  | 0.0 | 26.61   | 8.875  | 0.0 | 178.176 | 4.923  | 0.0 | 16.915  | 5.68   | 0.0 | 1.432 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.184 | 0.0 |
| 90  | 13740 | 13741 | NS | 1 | 0.0 | 162.216 | 10.758 | 0.0 | 29.588  | 15.692 | 0.0 | 229.372 | 12.636 | 0.0 | 133.673 | 15.195 | 0.0 | 1.396 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.889 | 0.0 | 0.0 | 2.183 | 0.0 |
| 91  | 13741 | 13742 | SN | 1 | 0.0 | 22.975  | 4.575  | 0.0 | 21.575  | 6.208  | 0.0 | 75.004  | 0.82   | 0.0 | 60.384  | 1.691  | 0.0 | 1.35  | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.808 | 0.0 | 0.0 | 2.079 | 0.0 |
| 92  | 13741 | 13742 | NS | 1 | 0.0 | 154.627 | 10.879 | 0.0 | 29.075  | 15.169 | 0.0 | 192.918 | 13.71  | 0.0 | 16.771  | 14.48  | 0.0 | 1.413 | 0.0 | 0.0 | 1.825 | 0.0 | 0.0 | 1.877 | 0.0 | 0.0 | 2.183 | 0.0 |
| 93  | 13741 | 13742 | SN | 1 | 0.0 | 28.38   | 12.468 | 0.0 | 24.272  | 12.811 | 0.0 | 78.274  | 6.887  | 0.0 | 81.313  | 9.556  | 0.0 | 1.389 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.795 | 0.0 | 0.0 | 2.079 | 0.0 |
| 94  | 13741 | 13742 | SN | 1 | 0.0 | 28.38   | 12.468 | 0.0 | 24.272  | 12.8   | 0.0 | 78.285  | 6.88   | 0.0 | 81.308  | 9.542  | 0.0 | 1.379 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.079 | 0.0 |
| 95  | 13741 | 13742 | NS | 1 | 0.0 | 154.627 | 10.695 | 0.0 | 30.928  | 15.766 | 0.0 | 192.918 | 12.648 | 0.0 | 136.926 | 15.251 | 0.0 | 1.413 | 0.0 | 0.0 | 1.825 | 0.0 | 0.0 | 1.877 | 0.0 | 0.0 | 2.183 | 0.0 |
| 96  | 13741 | 13742 | NS | 1 | 0.0 | 154.627 | 10.717 | 0.0 | 31.877  | 15.766 | 0.0 | 192.918 | 12.643 | 0.0 | 136.926 | 15.251 | 0.0 | 1.413 | 0.0 | 0.0 | 1.825 | 0.0 | 0.0 | 1.877 | 0.0 | 0.0 | 2.183 | 0.0 |
| 97  | 13741 | 13742 | NS | 1 | 0.0 | 238.797 | 7.627  | 0.0 | 25.678  | 9.051  | 0.0 | 218.656 | 5.196  | 0.0 | 16.76   | 5.977  | 0.0 | 1.423 | 0.0 | 0.0 | 1.826 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.185 | 0.0 |
| 98  | 13741 | 13742 | SN | 1 | 0.0 | 22.975  | 4.578  | 0.0 | 21.575  | 6.197  | 0.0 | 74.993  | 0.825  | 0.0 | 60.389  | 1.691  | 0.0 | 1.35  | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.809 | 0.0 | 0.0 | 2.079 | 0.0 |
| 99  | 13741 | 13742 | NS | 1 | 0.0 | 238.797 | 7.234  | 0.0 | 25.678  | 8.783  | 0.0 | 218.656 | 4.739  | 0.0 | 118.644 | 5.686  | 0.0 | 1.423 | 0.0 | 0.0 | 1.826 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.185 | 0.0 |
| 100 | 13741 | 13742 | NS | 1 | 0.0 | 238.797 | 7.235  | 0.0 | 25.678  | 8.808  | 0.0 | 218.656 | 4.71   | 0.0 | 122.394 | 5.686  | 0.0 | 1.423 | 0.0 | 0.0 | 1.826 | 0.0 | 0.0 | 1.913 | 0.0 | 0.0 | 2.185 | 0.0 |
| 101 | 13742 | 13743 | NS | 1 | 0.0 | 22.882  | 7.326  | 0.0 | 25.683  | 8.816  | 0.0 | 350.161 | 4.795  | 0.0 | 118.633 | 5.75   | 0.0 | 1.436 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.185 | 0.0 |
| 102 | 13742 | 13743 | NS | 1 | 0.0 | 22.882  | 7.326  | 0.0 | 25.683  | 8.816  | 0.0 | 350.161 | 4.795  | 0.0 | 118.633 | 5.75   | 0.0 | 1.436 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.185 | 0.0 |
| 103 | 13742 | 13743 | SN | 1 | 0.0 | 22.959  | 4.575  | 0.0 | 21.547  | 6.255  | 0.0 | 47.462  | 0.856  | 0.0 | 38.009  | 1.693  | 0.0 | 1.362 | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.793 | 0.0 | 0.0 | 2.079 | 0.0 |
| 104 | 13742 | 13743 | SN | 1 | 0.0 | 22.959  | 4.602  | 0.0 | 18.045  | 6.111  | 0.0 | 47.462  | 0.901  | 0.0 | 11.339  | 1.424  | 0.0 | 1.362 | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.793 | 0.0 | 0.0 | 2.079 | 0.0 |
| 105 | 13742 | 13743 | NS | 1 | 0.0 | 22.882  | 7.997  | 0.0 | 25.683  | 9.248  | 0.0 | 350.161 | 5.592  | 0.0 | 16.76   | 6.351  | 0.0 | 1.436 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.185 | 0.0 |

| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal | Deviations |
|--------------------------|------------|-----------|------------|--------|------------|
|                          | Range      | 10.0      | 3.0        |        |            |

|     |       |       |    |   |     |         |        |     |         |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 106 | 13742 | 13743 | NS | 1 | 0.0 | 25.987  | 10.704 | 0.0 | 29.605  | 15.745 | 0.0 | 190.237 | 12.674 | 0.0 | 187.907 | 15.183 | 0.0 | 1.416 | 0.0 | 0.0 | 1.826 | 0.0 | 0.0 | 1.879 | 0.0 | 0.0 | 2.184 | 0.0 |
| 107 | 13742 | 13743 | NS | 1 | 0.0 | 25.987  | 10.704 | 0.0 | 29.605  | 15.745 | 0.0 | 190.237 | 12.667 | 0.0 | 187.907 | 15.183 | 0.0 | 1.416 | 0.0 | 0.0 | 1.826 | 0.0 | 0.0 | 1.879 | 0.0 | 0.0 | 2.184 | 0.0 |
| 108 | 13742 | 13743 | SN | 1 | 0.0 | 28.06   | 12.388 | 0.0 | 23.593  | 12.861 | 0.0 | 73.813  | 6.913  | 0.0 | 47.821  | 9.562  | 0.0 | 1.371 | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.809 | 0.0 | 0.0 | 2.078 | 0.0 |
| 109 | 13742 | 13743 | SN | 1 | 0.0 | 28.06   | 12.404 | 0.0 | 23.279  | 12.334 | 0.0 | 73.813  | 7.132  | 0.0 | 13.462  | 8.345  | 0.0 | 1.371 | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.809 | 0.0 | 0.0 | 2.078 | 0.0 |
| 110 | 13742 | 13743 | NS | 1 | 0.0 | 25.987  | 10.953 | 0.0 | 29.081  | 15.191 | 0.0 | 190.237 | 14.493 | 0.0 | 16.771  | 14.688 | 0.0 | 1.416 | 0.0 | 0.0 | 1.826 | 0.0 | 0.0 | 1.879 | 0.0 | 0.0 | 2.184 | 0.0 |
| 111 | 13743 | 13744 | SN | 1 | 0.0 | 28.005  | 12.415 | 0.0 | 241.654 | 12.915 | 0.0 | 80.773  | 6.904  | 0.0 | 90.975  | 9.521  | 0.0 | 1.371 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.808 | 0.0 | 0.0 | 2.08  | 0.0 |
| 112 | 13743 | 13744 | SN | 1 | 0.0 | 28.005  | 12.411 | 0.0 | 241.654 | 12.634 | 0.0 | 80.773  | 6.954  | 0.0 | 15.436  | 8.973  | 0.0 | 1.371 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.808 | 0.0 | 0.0 | 2.08  | 0.0 |
| 113 | 13743 | 13744 | SN | 1 | 0.0 | 28.005  | 12.415 | 0.0 | 241.654 | 12.905 | 0.0 | 80.773  | 6.904  | 0.0 | 90.953  | 9.521  | 0.0 | 1.371 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.808 | 0.0 | 0.0 | 2.08  | 0.0 |
| 114 | 13743 | 13744 | NS | 1 | 0.0 | 147.32  | 10.756 | 0.0 | 31.816  | 15.791 | 0.0 | 353.035 | 12.678 | 0.0 | 189.159 | 15.251 | 0.0 | 1.413 | 0.0 | 0.0 | 1.825 | 0.0 | 0.0 | 1.878 | 0.0 | 0.0 | 2.183 | 0.0 |
| 115 | 13743 | 13744 | NS | 1 | 0.0 | 147.32  | 10.756 | 0.0 | 31.816  | 15.791 | 0.0 | 353.035 | 12.678 | 0.0 | 189.159 | 15.251 | 0.0 | 1.413 | 0.0 | 0.0 | 1.825 | 0.0 | 0.0 | 1.878 | 0.0 | 0.0 | 2.183 | 0.0 |
| 116 | 13743 | 13744 | SN | 1 | 0.0 | 19.192  | 4.637  | 0.0 | 268.032 | 6.191  | 0.0 | 59.402  | 0.857  | 0.0 | 11.427  | 1.489  | 0.0 | 1.353 | 0.0 | 0.0 | 1.738 | 0.0 | 0.0 | 1.798 | 0.0 | 0.0 | 2.079 | 0.0 |
| 117 | 13743 | 13744 | SN | 1 | 0.0 | 19.192  | 4.61   | 0.0 | 268.032 | 6.229  | 0.0 | 59.402  | 0.857  | 0.0 | 70.879  | 1.679  | 0.0 | 1.353 | 0.0 | 0.0 | 1.738 | 0.0 | 0.0 | 1.798 | 0.0 | 0.0 | 2.079 | 0.0 |
| 118 | 13743 | 13744 | SN | 1 | 0.0 | 19.192  | 4.61   | 0.0 | 268.032 | 6.229  | 0.0 | 59.402  | 0.857  | 0.0 | 70.857  | 1.679  | 0.0 | 1.353 | 0.0 | 0.0 | 1.738 | 0.0 | 0.0 | 1.798 | 0.0 | 0.0 | 2.079 | 0.0 |
| 119 | 13743 | 13744 | NS | 1 | 0.0 | 121.482 | 7.283  | 0.0 | 25.672  | 8.851  | 0.0 | 349.367 | 4.765  | 0.0 | 117.519 | 5.753  | 0.0 | 1.432 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.185 | 0.0 |
| 120 | 13743 | 13744 | NS | 1 | 0.0 | 121.482 | 7.283  | 0.0 | 25.672  | 8.849  | 0.0 | 349.367 | 4.765  | 0.0 | 117.519 | 5.753  | 0.0 | 1.432 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.9   | 0.0 | 0.0 | 2.185 | 0.0 |
| 121 | 13744 | 13745 | SN | 1 | 0.0 | 23.009  | 4.542  | 0.0 | 21.575  | 6.19   | 0.0 | 41.318  | 0.845  | 0.0 | 24.691  | 1.716  | 0.0 | 1.365 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.079 | 0.0 |
| 122 | 13744 | 13745 | SN | 1 | 0.0 | 23.009  | 4.55   | 0.0 | 19.689  | 6.174  | 0.0 | 41.318  | 0.838  | 0.0 | 14.118  | 1.604  | 0.0 | 1.365 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.079 | 0.0 |
| 123 | 13744 | 13745 | NS | 1 | 0.0 | 25.998  | 10.771 | 0.0 | 33.024  | 15.67  | 0.0 | 264.602 | 12.683 | 0.0 | 186.743 | 15.229 | 0.0 | 1.398 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.894 | 0.0 | 0.0 | 2.185 | 0.0 |
| 124 | 13744 | 13745 | NS | 1 | 0.0 | 25.959  | 10.771 | 0.0 | 33.807  | 15.68  | 0.0 | 264.596 | 12.69  | 0.0 | 186.749 | 15.229 | 0.0 | 1.398 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.894 | 0.0 | 0.0 | 2.185 | 0.0 |
| 125 | 13744 | 13745 | SN | 1 | 0.0 | 28.948  | 12.352 | 0.0 | 23.533  | 12.641 | 0.0 | 72.864  | 6.873  | 0.0 | 20.466  | 9.355  | 0.0 | 1.388 | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.793 | 0.0 | 0.0 | 2.078 | 0.0 |
| 126 | 13744 | 13745 | SN | 1 | 0.0 | 28.948  | 12.352 | 0.0 | 23.533  | 12.641 | 0.0 | 72.864  | 6.873  | 0.0 | 20.466  | 9.355  | 0.0 | 1.388 | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.793 | 0.0 | 0.0 | 2.078 | 0.0 |
| 127 | 13744 | 13745 | NS | 1 | 0.0 | 22.893  | 7.224  | 0.0 | 25.667  | 8.8    | 0.0 | 191.368 | 4.736  | 0.0 | 129.784 | 5.793  | 0.0 | 1.436 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.183 | 0.0 |
| 128 | 13744 | 13745 | NS | 1 | 0.0 | 22.893  | 7.231  | 0.0 | 25.667  | 8.804  | 0.0 | 191.451 | 4.74   | 0.0 | 129.812 | 5.784  | 0.0 | 1.436 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.183 | 0.0 |
| 129 | 13744 | 13745 | SN | 1 | 0.0 | 23.009  | 4.55   | 0.0 | 19.689  | 6.172  | 0.0 | 41.318  | 0.838  | 0.0 | 14.118  | 1.604  | 0.0 | 1.365 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.079 | 0.0 |
| 130 | 13744 | 13745 | SN | 1 | 0.0 | 28.948  | 12.351 | 0.0 | 24.227  | 12.807 | 0.0 | 72.864  | 6.86   | 0.0 | 49.751  | 9.65   | 0.0 | 1.388 | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.793 | 0.0 | 0.0 | 2.078 | 0.0 |
| 131 | 13745 | 13746 | SN | 1 | 0.0 | 24.045  | 4.563  | 0.0 | 19.049  | 6.17   | 0.0 | 68.43   | 0.829  | 0.0 | 237.559 | 1.543  | 0.0 | 1.368 | 0.0 | 0.0 | 1.731 | 0.0 | 0.0 | 1.803 | 0.0 | 0.0 | 2.08  | 0.0 |
| 132 | 13745 | 13746 | SN | 1 | 0.0 | 29.147  | 12.325 | 0.0 | 23.571  | 12.566 | 0.0 | 76.592  | 6.837  | 0.0 | 87.383  | 9.253  | 0.0 | 1.37  | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.079 | 0.0 |
| 133 | 13745 | 13746 | NS | 1 | 0.0 | 22.898  | 7.18   | 0.0 | 25.645  | 8.799  | 0.0 | 354.557 | 4.692  | 0.0 | 179.629 | 5.759  | 0.0 | 1.435 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.898 | 0.0 | 0.0 | 2.184 | 0.0 |
| 134 | 13745 | 13746 | NS | 1 | 0.0 | 25.965  | 10.783 | 0.0 | 29.605  | 15.621 | 0.0 | 198.664 | 12.619 | 0.0 | 179.067 | 15.095 | 0.0 | 1.407 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.872 | 0.0 | 0.0 | 2.181 | 0.0 |
| 135 | 13746 | 13747 | SN | 1 | 0.0 | 23.042  | 4.679  | 0.0 | 234.214 | 6.248  | 0.0 | 74.822  | 0.845  | 0.0 | 277.7   | 1.736  | 0.0 | 1.362 | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.811 | 0.0 | 0.0 | 2.08  | 0.0 |
| 136 | 13746 | 13747 | SN | 1 | 0.0 | 28.551  | 12.477 | 0.0 | 75.95   | 12.871 | 0.0 | 86.773  | 6.935  | 0.0 | 44.881  | 9.799  | 0.0 | 1.395 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.08  | 0.0 |
| 137 | 13746 | 13747 | SN | 1 | 0.0 | 28.551  | 12.484 | 0.0 | 75.95   | 12.631 | 0.0 | 86.773  | 6.986  | 0.0 | 22.896  | 9.242  | 0.0 | 1.395 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.794 | 0.0 | 0.0 | 2.08  | 0.0 |
| 138 | 13747 | 13748 | SN | 1 | 0.0 | 28.11   | 12.4   | 0.0 | 76.093  | 12.905 | 0.0 | 79.703  | 6.858  | 0.0 | 254.465 | 9.796  | 0.0 | 1.389 | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.793 | 0.0 | 0.0 | 2.08  | 0.0 |
| 139 | 13747 | 13748 | NS | 1 | 0.0 | 25.97   | 10.703 | 0.0 | 29.632  | 15.48  | 0.0 | 253.461 | 12.528 | 0.0 | 137.517 | 15.087 | 0.0 | 1.411 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.889 | 0.0 | 0.0 | 2.183 | 0.0 |
| 140 | 13747 | 13748 | SN | 1 | 0.0 | 23.036  | 4.596  | 0.0 | 227.839 | 6.27   | 0.0 | 72.213  | 0.787  | 0.0 | 185.853 | 1.748  | 0.0 | 1.363 | 0.0 | 0.0 | 1.728 | 0.0 | 0.0 | 1.805 | 0.0 | 0.0 | 2.08  | 0.0 |
| 141 | 13747 | 13748 | NS | 1 | 0.0 | 147.755 | 7.124  | 0.0 | 25.661  | 8.728  | 0.0 | 217.01  | 4.613  | 0.0 | 186.065 | 5.668  | 0.0 | 1.438 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.184 | 0.0 |
| 142 | 13748 | 13749 | SN | 1 | 0.0 | 28.115  | 12.43  | 0.0 | 24.31   | 12.818 | 0.0 | 76.752  | 6.804  | 0.0 | 158.68  | 9.573  | 0.0 | 1.393 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.797 | 0.0 | 0.0 | 2.079 | 0.0 |

| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal | Deviations |
|--------------------------|------------|-----------|------------|--------|------------|
|                          | Range      | 10.0      | 3.0        |        |            |

|     |       |       |    |   |     |         |        |     |        |        |     |         |        |     |         |        |     |       |     |     |       |     |     |       |     |     |       |     |
|-----|-------|-------|----|---|-----|---------|--------|-----|--------|--------|-----|---------|--------|-----|---------|--------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| 143 | 13748 | 13749 | NS | 1 | 0.0 | 265.525 | 7.256  | 0.0 | 25.661 | 8.824  | 0.0 | 349.819 | 4.821  | 0.0 | 139.303 | 5.772  | 0.0 | 1.435 | 0.0 | 0.0 | 1.823 | 0.0 | 0.0 | 1.899 | 0.0 | 0.0 | 2.184 | 0.0 |
| 144 | 13748 | 13749 | SN | 1 | 0.0 | 28.115  | 12.443 | 0.0 | 23.648 | 12.614 | 0.0 | 76.752  | 6.829  | 0.0 | 158.68  | 9.208  | 0.0 | 1.393 | 0.0 | 0.0 | 1.73  | 0.0 | 0.0 | 1.797 | 0.0 | 0.0 | 2.079 | 0.0 |
| 145 | 13748 | 13749 | NS | 1 | 0.0 | 265.525 | 10.907 | 0.0 | 31.888 | 15.69  | 0.0 | 272.292 | 12.919 | 0.0 | 172.741 | 15.166 | 0.0 | 1.403 | 0.0 | 0.0 | 1.825 | 0.0 | 0.0 | 1.879 | 0.0 | 0.0 | 2.183 | 0.0 |
| 146 | 13748 | 13749 | SN | 1 | 0.0 | 23.025  | 4.673  | 0.0 | 18.878 | 6.164  | 0.0 | 78.699  | 0.815  | 0.0 | 181.463 | 1.549  | 0.0 | 1.355 | 0.0 | 0.0 | 1.731 | 0.0 | 0.0 | 1.809 | 0.0 | 0.0 | 2.082 | 0.0 |
| 147 | 13748 | 13749 | SN | 1 | 0.0 | 23.025  | 4.656  | 0.0 | 21.459 | 6.183  | 0.0 | 78.699  | 0.823  | 0.0 | 181.463 | 1.693  | 0.0 | 1.355 | 0.0 | 0.0 | 1.731 | 0.0 | 0.0 | 1.809 | 0.0 | 0.0 | 2.082 | 0.0 |
| 148 | 13749 | 13750 | SN | 1 | 0.0 | 22.987  | 4.657  | 0.0 | 18.062 | 6.06   | 0.0 | 60.968  | 0.886  | 0.0 | 11.234  | 1.446  | 0.0 | 1.362 | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.788 | 0.0 | 0.0 | 2.079 | 0.0 |
| 149 | 13749 | 13750 | SN | 1 | 0.0 | 28.06   | 12.492 | 0.0 | 23.279 | 12.343 | 0.0 | 81.754  | 7.099  | 0.0 | 13.418  | 8.338  | 0.0 | 1.37  | 0.0 | 0.0 | 1.729 | 0.0 | 0.0 | 1.798 | 0.0 | 0.0 | 2.083 | 0.0 |
| 150 | 13749 | 13750 | SN | 1 | 0.0 | 22.987  | 4.657  | 0.0 | 18.062 | 6.06   | 0.0 | 60.968  | 0.886  | 0.0 | 11.234  | 1.446  | 0.0 | 1.362 | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.788 | 0.0 | 0.0 | 2.079 | 0.0 |
| 151 | 13749 | 13750 | NS | 1 | 0.0 | 272.455 | 10.756 | 0.0 | 31.066 | 15.68  | 0.0 | 147.772 | 12.621 | 0.0 | 143.66  | 15.223 | 0.0 | 1.403 | 0.0 | 0.0 | 1.826 | 0.0 | 0.0 | 1.88  | 0.0 | 0.0 | 2.183 | 0.0 |
| 152 | 13749 | 13750 | NS | 1 | 0.0 | 217.727 | 7.249  | 0.0 | 25.667 | 8.835  | 0.0 | 322.173 | 4.749  | 0.0 | 121.584 | 5.788  | 0.0 | 1.426 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.185 | 0.0 |
| 153 | 13749 | 13750 | NS | 1 | 0.0 | 217.727 | 7.249  | 0.0 | 25.667 | 8.833  | 0.0 | 322.173 | 4.749  | 0.0 | 121.584 | 5.79   | 0.0 | 1.426 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.901 | 0.0 | 0.0 | 2.185 | 0.0 |
| 154 | 13749 | 13750 | SN | 1 | 0.0 | 22.987  | 4.618  | 0.0 | 21.52  | 6.215  | 0.0 | 60.968  | 0.85   | 0.0 | 45.532  | 1.715  | 0.0 | 1.362 | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.788 | 0.0 | 0.0 | 2.079 | 0.0 |
| 155 | 13750 | 13751 | NS | 1 | 0.0 | 67.506  | 7.322  | 0.0 | 25.672 | 8.78   | 0.0 | 149.39  | 4.758  | 0.0 | 130.16  | 5.798  | 0.0 | 1.432 | 0.0 | 0.0 | 1.824 | 0.0 | 0.0 | 1.902 | 0.0 | 0.0 | 2.185 | 0.0 |
| 156 | 13750 | 13751 | SN | 1 | 0.0 | 22.953  | 4.66   | 0.0 | 18.056 | 6.057  | 0.0 | 57.952  | 0.912  | 0.0 | 49.594  | 1.377  | 0.0 | 1.368 | 0.0 | 0.0 | 1.727 | 0.0 | 0.0 | 1.805 | 0.0 | 0.0 | 2.079 | 0.0 |

|                          |            |           |            |          |             |
|--------------------------|------------|-----------|------------|----------|-------------|
| Parameter Specifications | Parameters | Azi.Angle | Inci.Angle | Normal   | Deviations  |
|                          | Range      | 10.0      | 3.0        | Alarming | High Errors |