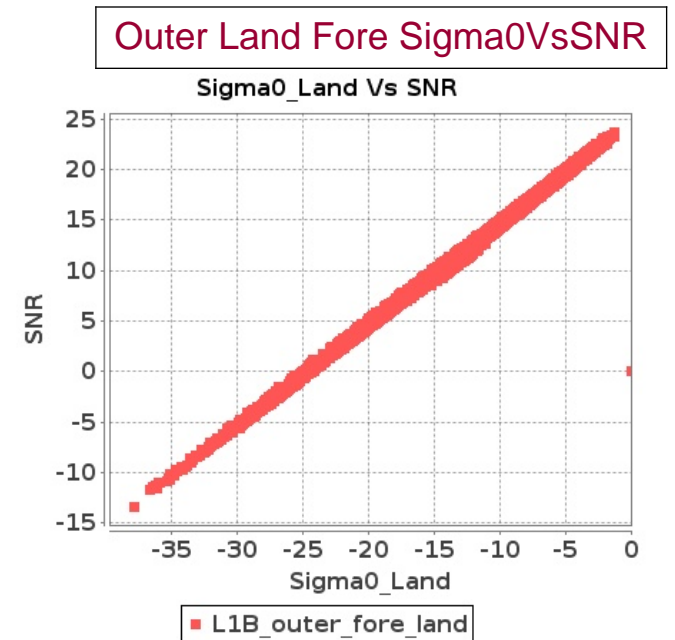
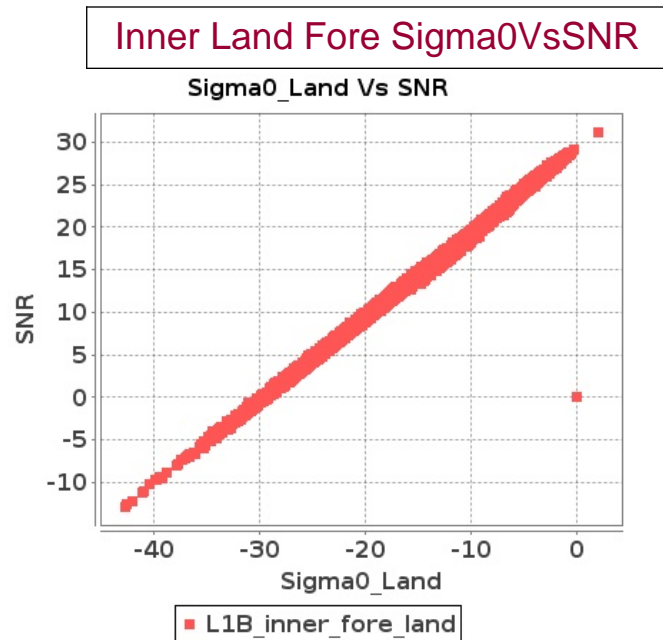
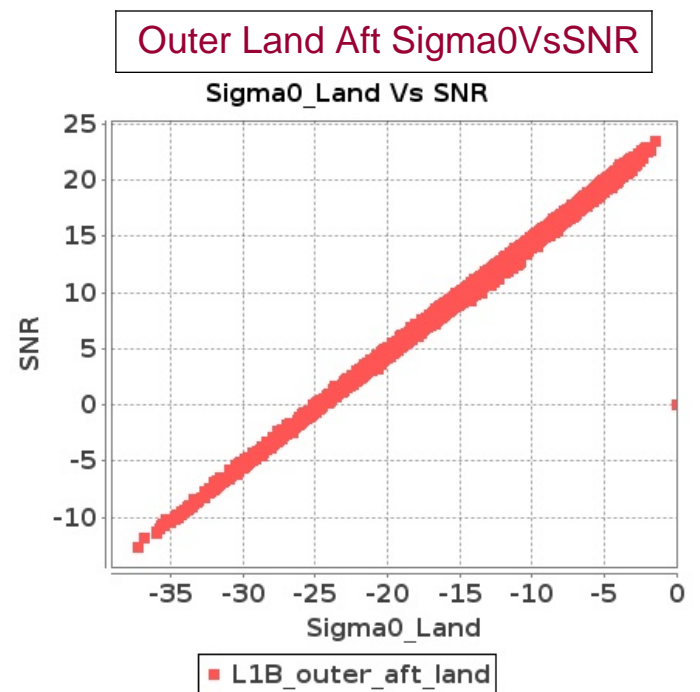
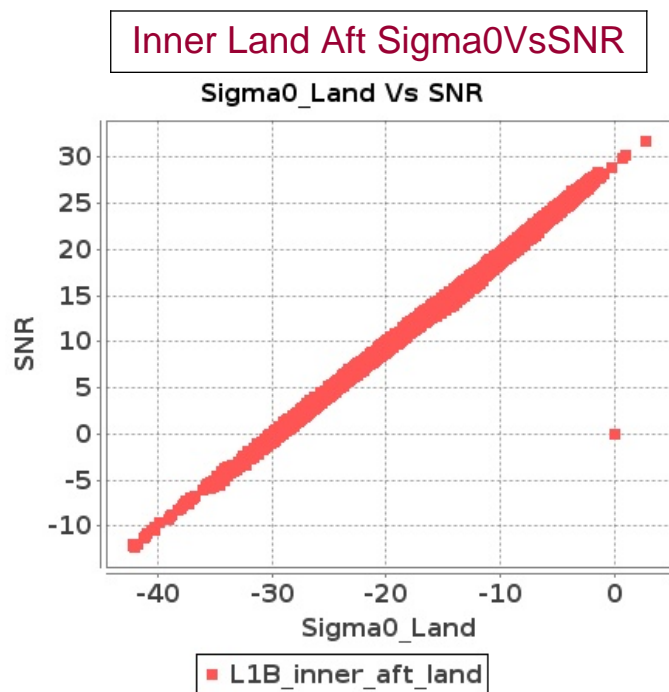
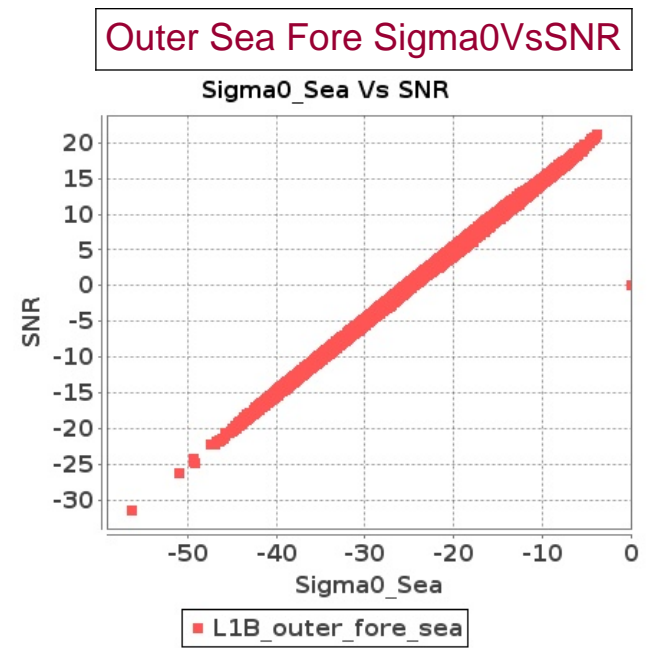
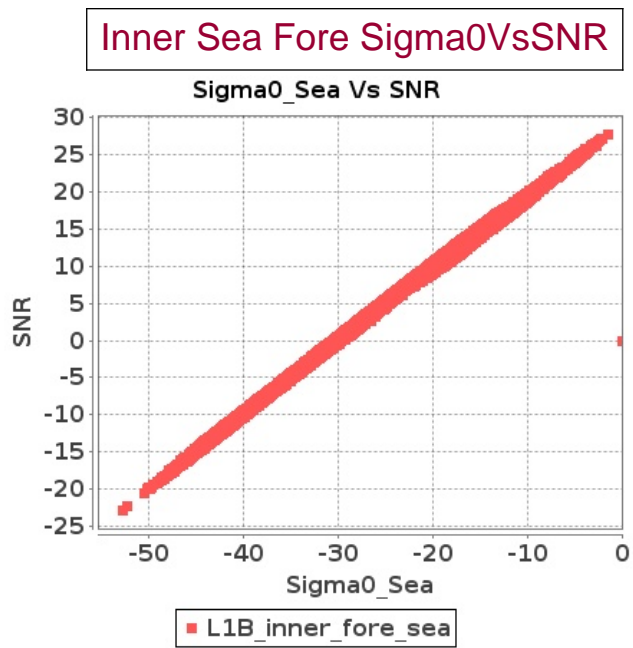
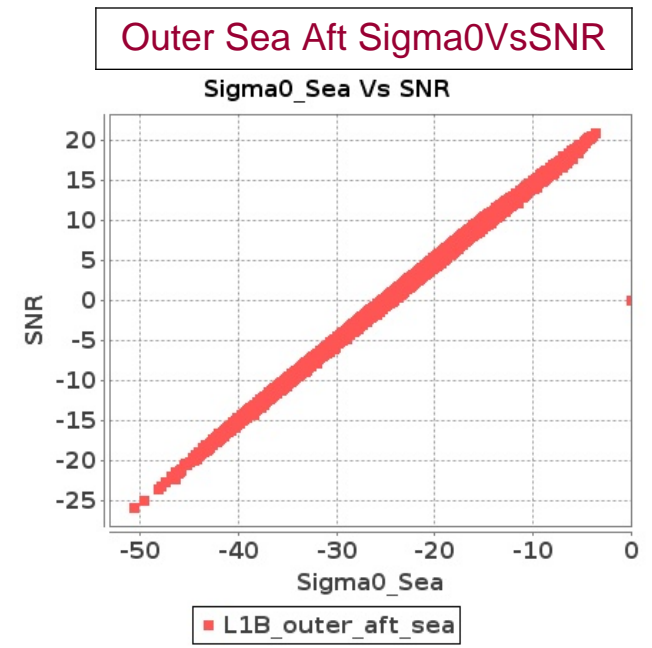
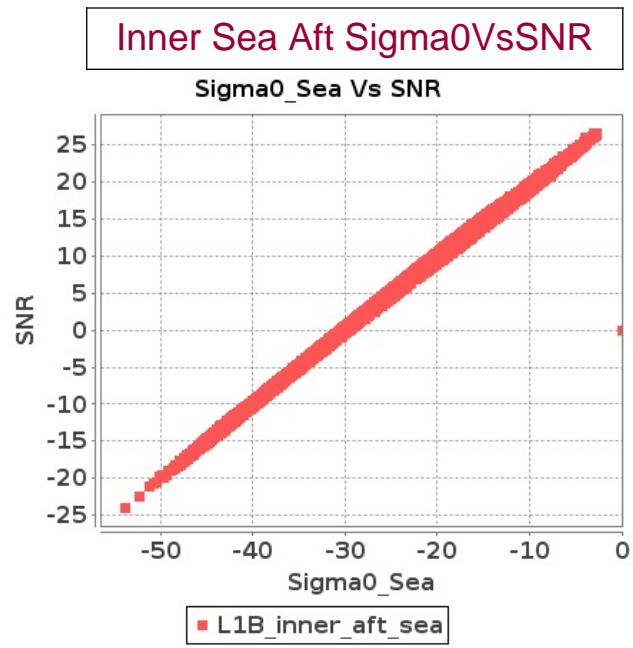
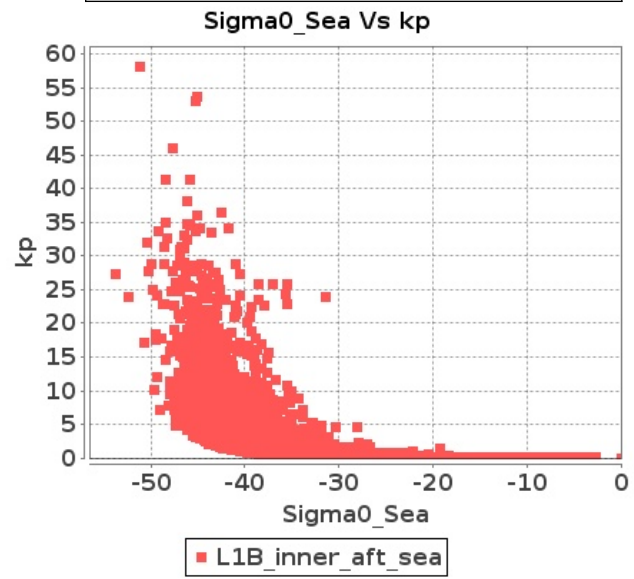


SCATSAT-1 Scatterometer Level-1B Data Quality Cycle wise Report

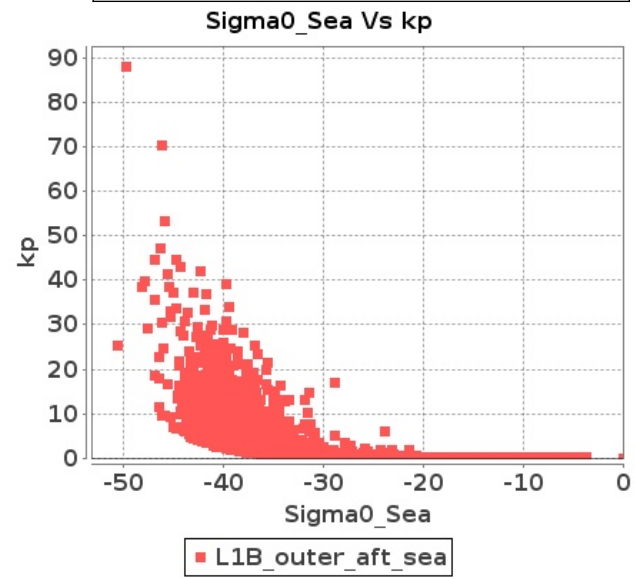
Report between 09-FEB-2017 To 10-FEB-2017



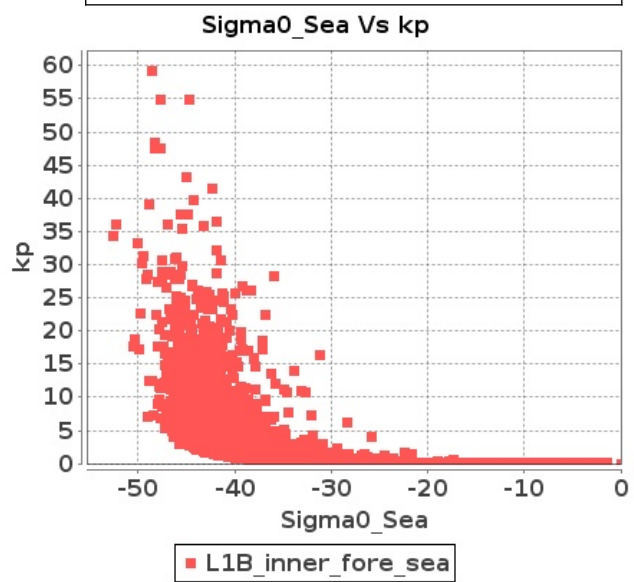
Inner Sea Aft Sigma0VsKp



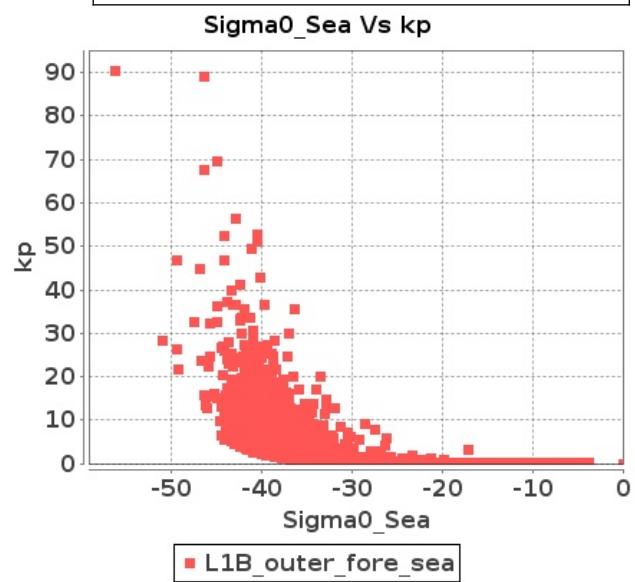
Outer Sea Aft Sigma0VsKp



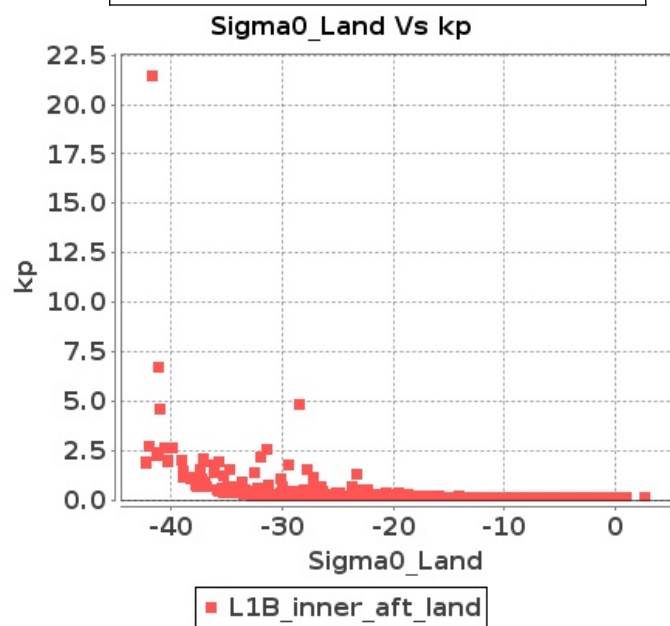
Inner Sea Fore Sigma0VsKp



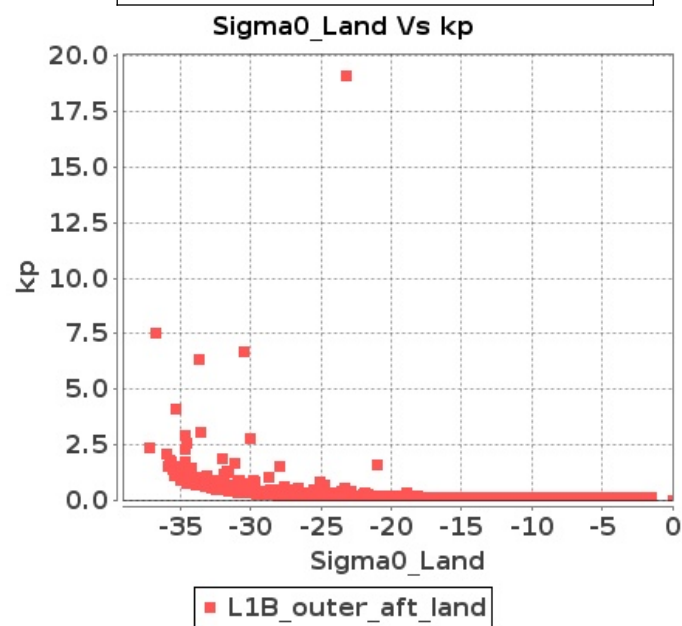
Outer Sea Fore Sigma0VsKp



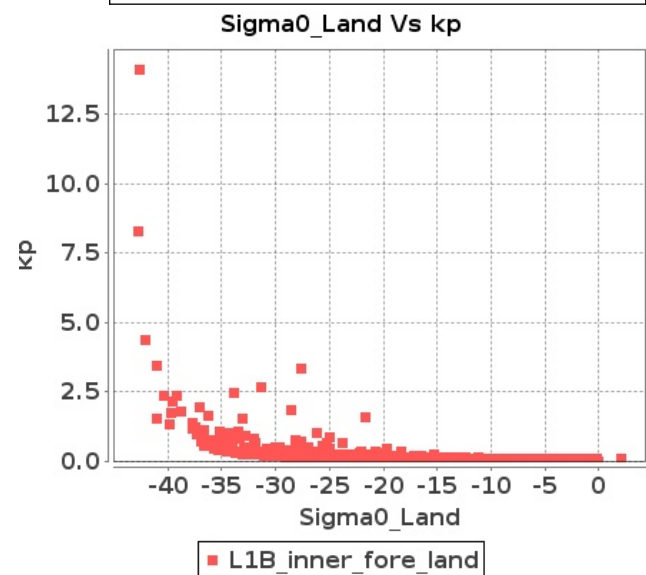
Inner Land Aft Sigma0VsKp



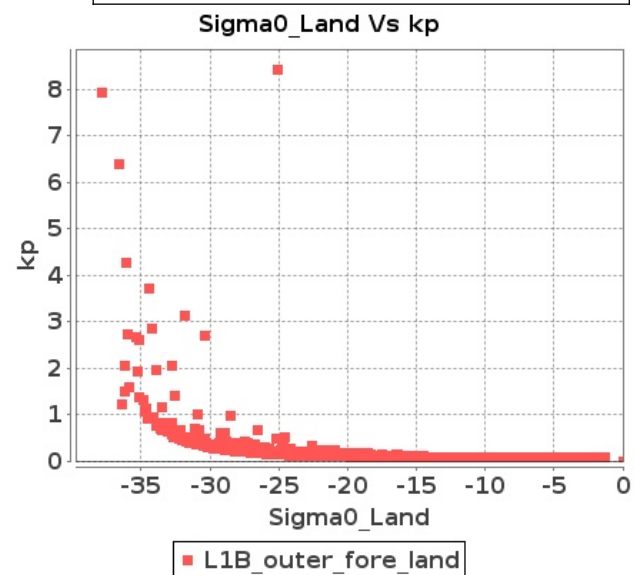
Outer Land Aft Sigma0VsKp



Inner Land Fore Sigma0VsKp



Outer Land Fore Sigma0VsKp



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

Report between 09-FEB-2017 To 10-FEB-2017

| | | | | | Inner | | | | | | | | | | | |
|-------|-------------|-----------|------|------|-----------------|--------|-----------|---------------|---------|-----------|----------|----------|-----------|----------|---------|-----------|
| | | | | | Incidence Angle | | | Azimuth Angle | | | Range | | | X-Factor | | |
| Sr No | Start Orbit | End Orbit | Dir. | Ver. | Min | Max | BadOcc(%) | Min | Max | BadOcc(%) | Min | Max | BadOcc(%) | Min | Max | BadOcc(%) |
| 1 | 1970 | 1971 | NS | 2 | 48.699 | 49.35 | 0.0 | 0.003 | 1.803 | 0.193 | 1027.44 | 1083.392 | 0.0 | -91.236 | -89.985 | 0.0 |
| 2 | 1970 | 1971 | SN | 1 | 48.815 | 49.419 | 0.0 | 0.008 | 6.298 | 0.155 | 1050.84 | 1085.56 | 0.0 | -91.332 | -90.203 | 0.0 |
| 3 | 1971 | 1972 | NS | 2 | 48.73 | 49.362 | 0.0 | 0.003 | 1.803 | 0.183 | 1027.648 | 1083.456 | 0.0 | -91.27 | -89.978 | 0.0 |
| 4 | 1971 | 1972 | SN | 1 | 48.818 | 49.4 | 0.0 | 0.003 | 6.282 | 0.149 | 1050.616 | 1085.584 | 0.0 | -91.253 | -90.185 | 0.0 |
| 5 | 1972 | 1973 | SN | 1 | 48.813 | 49.434 | 0.0 | 0.003 | 6.276 | 0.146 | 1050.456 | 1085.704 | 0.0 | -91.242 | -90.2 | 0.0 |
| 6 | 1972 | 1973 | NS | 1 | 48.719 | 49.353 | 0.0 | 0.003 | 6.337 | 0.193 | 1027.664 | 1083.64 | 0.0 | -91.244 | -89.961 | 0.0 |
| 7 | 1973 | 1974 | SN | 1 | 48.817 | 49.434 | 0.0 | 0.003 | 6.26 | 0.147 | 1050.16 | 1085.64 | 0.0 | -91.542 | -90.22 | 0.0 |
| 8 | 1973 | 1974 | NS | 1 | 48.711 | 49.357 | 0.0 | 0.003 | 181.631 | 0.184 | 1028.368 | 1083.608 | 0.0 | -91.061 | -89.997 | 0.0 |
| 9 | 1974 | 1975 | NS | 1 | 48.723 | 49.364 | 0.0 | 0.003 | 6.348 | 0.198 | 1028.408 | 1083.536 | 0.0 | -91.298 | -89.986 | 0.0 |
| 10 | 1974 | 1975 | SN | 1 | 48.828 | 49.422 | 0.0 | 0.003 | 6.232 | 0.148 | 1050.616 | 1085.584 | 0.0 | -91.286 | -90.219 | 0.0 |
| 11 | 1975 | 1976 | SN | 1 | 48.823 | 49.423 | 0.0 | 0.003 | 1.814 | 0.14 | 1050.176 | 1085.536 | 0.0 | -91.356 | -90.22 | 0.0 |
| 12 | 1975 | 1976 | NS | 1 | 48.71 | 49.354 | 0.0 | 0.003 | 1.809 | 0.185 | 1028.128 | 1083.488 | 0.0 | -91.265 | -89.99 | 0.0 |
| 13 | 1976 | 1977 | NS | 1 | 48.724 | 49.312 | 0.0 | 0.003 | 6.326 | 0.198 | 1027.608 | 1083.48 | 0.0 | -91.23 | -90.002 | 0.0 |
| 14 | 1976 | 1977 | SN | 1 | 48.824 | 49.431 | 0.0 | 0.003 | 1.814 | 0.143 | 1050.416 | 1086.008 | 0.0 | -91.575 | -90.219 | 0.0 |
| 15 | 1977 | 1978 | NS | 2 | 48.692 | 49.341 | 0.0 | 0.003 | 1.809 | 0.185 | 1028.072 | 1083.656 | 0.0 | -91.218 | -90.003 | 0.0 |
| 16 | 1977 | 1978 | NS | 3 | 48.692 | 49.341 | 0.0 | 0.003 | 1.809 | 0.185 | 1028.072 | 1083.656 | 0.0 | -91.218 | -90.003 | 0.0 |
| 17 | 1977 | 1978 | SN | 1 | 48.824 | 49.407 | 0.0 | 0.003 | 1.814 | 0.146 | 1051.184 | 1085.824 | 0.0 | -91.583 | -90.209 | 0.0 |
| 18 | 1977 | 1978 | NS | 1 | 48.692 | 49.341 | 0.0 | 0.003 | 1.809 | 0.185 | 1028.072 | 1083.656 | 0.0 | -91.218 | -90.003 | 0.0 |
| 19 | 1978 | 1979 | NS | 1 | 48.729 | 49.352 | 0.0 | 0.003 | 1.809 | 0.191 | 1028.064 | 1083.768 | 0.0 | -91.185 | -89.953 | 0.0 |
| 20 | 1978 | 1979 | SN | 1 | 48.811 | 49.398 | 0.0 | 0.003 | 1.814 | 0.138 | 1050.824 | 1085.904 | 0.0 | -91.332 | -90.173 | 0.0 |
| 21 | 1979 | 1980 | NS | 2 | 48.696 | 49.35 | 0.0 | 0.003 | 1.809 | 0.19 | 1027.6 | 1083.728 | 0.0 | -91.298 | -89.97 | 0.0 |
| 22 | 1979 | 1980 | NS | 1 | 48.696 | 49.35 | 0.0 | 0.003 | 1.809 | 0.19 | 1027.6 | 1083.728 | 0.0 | -91.298 | -89.97 | 0.0 |
| 23 | 1979 | 1980 | SN | 1 | 48.825 | 49.445 | 0.0 | 0.003 | 251.534 | 0.138 | 1050.776 | 1085.864 | 0.0 | -91.347 | -90.216 | 0.0 |
| 24 | 1980 | 1981 | NS | 2 | 48.697 | 49.357 | 0.0 | 0.003 | 6.331 | 0.201 | 1027.648 | 1083.688 | 0.0 | -91.243 | -90.005 | 0.0 |
| 25 | 1980 | 1981 | SN | 1 | 48.813 | 49.396 | 0.0 | 0.003 | 1.814 | 0.14 | 1051.136 | 1085.856 | 0.0 | -91.349 | -90.19 | 0.0 |
| 26 | 1981 | 1982 | SN | 1 | 48.808 | 49.438 | 0.0 | 0.003 | 1.814 | 0.142 | 1051.056 | 1085.96 | 0.0 | -91.279 | -90.209 | 0.0 |
| 27 | 1981 | 1982 | NS | 1 | 48.624 | 49.311 | 0.0 | 0.003 | 1.809 | 0.185 | 1027.432 | 1083.792 | 0.0 | -91.651 | -90.003 | 0.0 |
| 28 | 1982 | 1983 | SN | 1 | 48.805 | 49.436 | 0.0 | 0.003 | 1.814 | 0.14 | 1051.048 | 1086.016 | 0.0 | -91.348 | -90.216 | 0.0 |
| 29 | 1982 | 1983 | NS | 1 | 48.696 | 49.337 | 0.0 | 0.003 | 1.814 | 0.186 | 1027.552 | 1083.864 | 0.0 | -91.256 | -89.988 | 0.0 |
| 30 | 1983 | 1984 | SN | 1 | 48.802 | 49.439 | 0.0 | 0.003 | 1.814 | 0.141 | 1051.056 | 1086.192 | 0.0 | -91.35 | -90.212 | 0.0 |
| 31 | 1983 | 1984 | NS | 1 | 48.696 | 49.309 | 0.0 | 0.003 | 1.809 | 0.186 | 1027.424 | 1084.04 | 0.0 | -91.115 | -89.987 | 0.0 |
| 32 | 1984 | 1985 | SN | 2 | 48.802 | 49.427 | 0.0 | 0.003 | 6.381 | 70.498 | 1051.184 | 1086.536 | 0.0 | -91.405 | -90.214 | 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 | 1984 | 1985 | NS | 1 | 48.707 | 49.309 | 0.0 | 0.003 | 1.809 | 0.191 | 1027.128 | 1084.128 | 0.0 | -91.082 | -89.981 | 0.0 |
| 34 | 1984 | 1985 | SN | 1 | 48.802 | 49.427 | 0.0 | 0.003 | 6.381 | 0.155 | 1051.184 | 1086.536 | 0.0 | -91.405 | -90.214 | 0.0 |
| 35 | 1985 | 1986 | SN | 3 | 48.796 | 49.439 | 0.0 | 0.003 | 1.809 | 70.999 | 1050.328 | 1086.152 | 0.0 | -91.362 | -90.193 | 0.0 |
| 36 | 1985 | 1986 | NS | 4 | 48.727 | 49.308 | 0.0 | 0.003 | 6.337 | 67.991 | 1027.296 | 1083.984 | 0.0 | -91.031 | -89.967 | 0.0 |
| 37 | 1985 | 1986 | NS | 2 | 48.727 | 49.308 | 0.0 | 0.003 | 6.337 | 0.202 | 1027.296 | 1083.984 | 0.0 | -91.031 | -89.967 | 0.0 |
| 38 | 1985 | 1986 | SN | 1 | 48.796 | 49.439 | 0.0 | 0.003 | 1.809 | 0.146 | 1050.328 | 1086.152 | 0.0 | -91.362 | -90.193 | 0.0 |
| 39 | 1986 | 1987 | SN | 1 | 48.794 | 49.4 | 0.0 | 0.003 | 1.809 | 0.137 | 1050.248 | 1086.336 | 0.0 | -91.369 | -90.182 | 0.0 |
| 40 | 1986 | 1987 | SN | 2 | 48.794 | 49.4 | 0.0 | 0.003 | 1.809 | 67.365 | 1050.248 | 1086.336 | 0.0 | -91.369 | -90.182 | 0.0 |
| 41 | 1986 | 1987 | NS | 1 | 48.717 | 49.316 | 0.0 | 0.003 | 1.809 | 0.183 | 1027.192 | 1084.272 | 0.0 | -91.123 | -89.961 | 0.0 |
| 42 | 1986 | 1987 | NS | 2 | 48.717 | 49.316 | 0.0 | 0.003 | 1.809 | 65.439 | 1027.192 | 1084.272 | 0.0 | -91.123 | -89.961 | 0.0 |
| 43 | 1987 | 1988 | SN | 1 | 48.788 | 49.409 | 0.0 | 0.003 | 6.348 | 0.146 | 1050.016 | 1086.36 | 0.0 | -91.797 | -90.218 | 0.0 |
| 44 | 1987 | 1988 | NS | 1 | 48.728 | 49.368 | 0.0 | 0.003 | 1.803 | 0.182 | 1027.408 | 1084.328 | 0.0 | -91.579 | -89.956 | 0.0 |
| 45 | 1987 | 1988 | SN | 2 | 48.788 | 49.409 | 0.0 | 0.003 | 6.348 | 66.288 | 1050.016 | 1086.36 | 0.0 | -91.797 | -90.218 | 0.0 |
| 46 | 1988 | 1989 | SN | 1 | 48.789 | 49.405 | 0.0 | 0.003 | 6.331 | 0.146 | 1049.968 | 1086.472 | 0.0 | -91.577 | -90.219 | 0.0 |
| 47 | 1988 | 1989 | NS | 1 | 48.69 | 49.362 | 0.0 | 0.003 | 1.809 | 0.188 | 1028.208 | 1084.24 | 0.0 | -91.301 | -89.959 | 0.0 |
| 48 | 1988 | 1989 | NS | 2 | 48.69 | 49.362 | 0.0 | 0.003 | 1.809 | 67.398 | 1028.208 | 1084.24 | 0.0 | -91.301 | -89.959 | 0.0 |
| 49 | 1988 | 1989 | SN | 2 | 48.789 | 49.405 | 0.0 | 0.003 | 6.331 | 66.902 | 1049.968 | 1086.472 | 0.0 | -91.577 | -90.219 | 0.0 |
| 50 | 1989 | 1990 | SN | 1 | 48.788 | 49.445 | 0.0 | 0.003 | 6.304 | 0.147 | 1049.928 | 1086.728 | 0.0 | -91.376 | -90.217 | 0.0 |
| 51 | 1989 | 1990 | NS | 1 | 48.698 | 49.369 | 0.0 | 0.003 | 1.803 | 0.188 | 1028.16 | 1084.352 | 0.0 | -91.248 | -89.988 | 0.0 |
| 52 | 1989 | 1990 | NS | 2 | 48.698 | 49.369 | 0.0 | 0.003 | 1.803 | 67.782 | 1028.16 | 1084.352 | 0.0 | -91.248 | -89.988 | 0.0 |
| 53 | 1989 | 1990 | SN | 2 | 48.788 | 49.445 | 0.0 | 0.003 | 6.304 | 66.684 | 1049.928 | 1086.728 | 0.0 | -91.376 | -90.217 | 0.0 |
| 54 | 1990 | 1991 | SN | 1 | 48.785 | 49.416 | 0.0 | 0.003 | 6.265 | 0.151 | 1050.256 | 1086.216 | 0.0 | -91.378 | -90.218 | 0.0 |
| 55 | 1990 | 1991 | SN | 2 | 48.785 | 49.416 | 0.0 | 0.003 | 6.265 | 68.149 | 1050.256 | 1086.216 | 0.0 | -91.378 | -90.218 | 0.0 |
| 56 | 1990 | 1991 | NS | 1 | 48.691 | 49.36 | 0.0 | 0.003 | 1.809 | 0.185 | 1028.096 | 1084.12 | 0.0 | -91.305 | -89.997 | 0.0 |
| 57 | 1990 | 1991 | NS | 2 | 48.691 | 49.36 | 0.0 | 0.003 | 1.809 | 67.69 | 1028.096 | 1084.12 | 0.0 | -91.305 | -89.997 | 0.0 |
| 58 | 1991 | 1992 | NS | 2 | 48.727 | 49.345 | 0.0 | 0.003 | 1.809 | 66.642 | 1027.944 | 1084.2 | 0.0 | -91.248 | -90.007 | 0.0 |
| 59 | 1991 | 1992 | SN | 1 | 48.781 | 49.448 | 0.0 | 0.003 | 1.814 | 0.143 | 1050.824 | 1086.4 | 0.0 | -91.356 | -90.219 | 0.0 |
| 60 | 1991 | 1992 | NS | 1 | 48.727 | 49.345 | 0.0 | 0.003 | 1.809 | 0.182 | 1027.944 | 1084.2 | 0.0 | -91.248 | -90.007 | 0.0 |
| 61 | 1991 | 1992 | SN | 2 | 48.781 | 49.448 | 0.0 | 0.003 | 1.814 | 69.265 | 1050.824 | 1086.4 | 0.0 | -91.356 | -90.219 | 0.0 |
| 62 | 1992 | 1993 | SN | 1 | 48.782 | 49.4 | 0.0 | 0.003 | 1.814 | 0.14 | 1050.456 | 1086.48 | 0.0 | -91.342 | -90.153 | 0.0 |
| 63 | 1992 | 1993 | SN | 2 | 48.782 | 49.4 | 0.0 | 0.003 | 1.814 | 68.106 | 1050.456 | 1086.48 | 0.0 | -91.342 | -90.153 | 0.0 |
| 64 | 1992 | 1993 | NS | 2 | 48.726 | 49.324 | 0.0 | 0.003 | 1.809 | 67.77 | 1027.832 | 1084.36 | 0.0 | -91.166 | -89.981 | 0.0 |
| 65 | 1992 | 1993 | NS | 1 | 48.726 | 49.324 | 0.0 | 0.003 | 1.809 | 0.186 | 1027.832 | 1084.36 | 0.0 | -91.166 | -89.981 | 0.0 |
| 66 | 1993 | 1994 | SN | 1 | 48.782 | 49.421 | 0.0 | 0.003 | 1.814 | 0.136 | 1050.48 | 1086.488 | 0.0 | -91.26 | -90.167 | 0.0 |
| 67 | 1993 | 1994 | SN | 2 | 48.782 | 49.421 | 0.0 | 0.003 | 1.814 | 66.698 | 1050.48 | 1086.488 | 0.0 | -91.26 | -90.167 | 0.0 |
| 68 | 1993 | 1994 | NS | 1 | 48.727 | 49.364 | 0.0 | 0.003 | 1.809 | 0.192 | 1027.608 | 1084.392 | 0.0 | -91.296 | -89.961 | 0.0 |
| 69 | 1993 | 1994 | NS | 2 | 48.727 | 49.364 | 0.0 | 0.003 | 1.809 | 69.612 | 1027.608 | 1084.392 | 0.0 | -91.296 | -89.961 | 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 |

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|  Normal |  Deviations |
|  Alarming |  High Errors |

| | | | | | | | | | | | | | | | | |
|----|------|------|----|---|--------|--------|-----|-------|---------|--------|----------|----------|-----|---------|---------|-----|
| 70 | 1994 | 1995 | NS | 1 | 48.707 | 49.322 | 0.0 | 0.003 | 1.809 | 0.186 | 1026.792 | 1084.304 | 0.0 | -91.311 | -89.98 | 0.0 |
| 71 | 1994 | 1995 | SN | 1 | 48.782 | 49.436 | 0.0 | 0.003 | 1.814 | 0.136 | 1050.192 | 1086.392 | 0.0 | -91.93 | -90.192 | 0.0 |
| 72 | 1994 | 1995 | SN | 2 | 48.782 | 49.436 | 0.0 | 0.003 | 1.814 | 66.861 | 1050.192 | 1086.392 | 0.0 | -91.93 | -90.192 | 0.0 |
| 73 | 1994 | 1995 | NS | 2 | 48.707 | 49.322 | 0.0 | 0.003 | 1.809 | 68.038 | 1026.792 | 1084.304 | 0.0 | -91.311 | -89.98 | 0.0 |
| 74 | 1995 | 1996 | NS | 1 | 48.688 | 49.353 | 0.0 | 0.003 | 1.809 | 0.185 | 1027.784 | 1084.424 | 0.0 | -91.315 | -90.003 | 0.0 |
| 75 | 1995 | 1996 | SN | 2 | 48.772 | 49.433 | 0.0 | 0.003 | 195.474 | 68.795 | 1050.416 | 1086.48 | 0.0 | -91.351 | -90.197 | 0.0 |
| 76 | 1995 | 1996 | SN | 1 | 48.772 | 49.433 | 0.0 | 0.003 | 195.474 | 0.141 | 1050.416 | 1086.48 | 0.0 | -91.351 | -90.197 | 0.0 |
| 77 | 1995 | 1996 | NS | 2 | 48.688 | 49.353 | 0.0 | 0.003 | 1.809 | 67.281 | 1027.784 | 1084.424 | 0.0 | -91.315 | -90.003 | 0.0 |
| 78 | 1996 | 1997 | SN | 2 | 48.731 | 49.45 | 0.0 | 0.003 | 1.814 | 67.236 | 1050.728 | 1086.568 | 0.0 | -91.399 | -90.198 | 0.0 |
| 79 | 1996 | 1997 | NS | 1 | 48.725 | 49.365 | 0.0 | 0.003 | 2.702 | 0.188 | 1027.552 | 1084.488 | 0.0 | -91.263 | -89.99 | 0.0 |
| 80 | 1996 | 1997 | SN | 1 | 48.731 | 49.45 | 0.0 | 0.003 | 1.814 | 0.139 | 1050.728 | 1086.568 | 0.0 | -91.399 | -90.198 | 0.0 |
| 81 | 1996 | 1997 | NS | 2 | 48.725 | 49.365 | 0.0 | 0.003 | 2.702 | 66.719 | 1027.552 | 1084.488 | 0.0 | -91.263 | -89.99 | 0.0 |
| 82 | 1997 | 1998 | NS | 2 | 48.724 | 49.352 | 0.0 | 0.003 | 1.809 | 67.76 | 1026.984 | 1084.6 | 0.0 | -91.366 | -89.991 | 0.0 |
| 83 | 1997 | 1998 | NS | 1 | 48.724 | 49.352 | 0.0 | 0.003 | 1.809 | 0.187 | 1026.984 | 1084.6 | 0.0 | -91.366 | -89.991 | 0.0 |
| 84 | 1997 | 1998 | SN | 1 | 48.763 | 49.444 | 0.0 | 0.003 | 1.814 | 0.139 | 1050.72 | 1086.696 | 0.0 | -91.562 | -90.205 | 0.0 |
| 85 | 1997 | 1998 | SN | 2 | 48.763 | 49.444 | 0.0 | 0.003 | 1.814 | 67.459 | 1050.72 | 1086.696 | 0.0 | -91.562 | -90.205 | 0.0 |
| 86 | 1998 | 1999 | NS | 1 | 48.724 | 49.314 | 0.0 | 0.003 | 1.809 | 67.497 | 1027.176 | 1084.728 | 0.0 | -91.15 | -89.985 | 0.0 |
| 87 | 1998 | 1999 | SN | 1 | 48.795 | 49.446 | 0.0 | 0.003 | 6.486 | 69.351 | 1050.616 | 1086.896 | 0.0 | -91.37 | -90.206 | 0.0 |
| 88 | 1998 | 1999 | NS | 1 | 48.724 | 49.314 | 0.0 | 0.003 | 1.792 | 0.181 | 1027.176 | 1076.776 | 0.0 | -91.15 | -89.985 | 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 |

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|  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 | 1970 | 1971 | NS | 2 | -34.425 | 27.41 | 0.966 | -34.883 | 28.337 | 0.972 | 5.978 | 31.262 | 11.605 | 6.16 | 31.363 | 19.253 | 0.103 | 234.011 | 1.579 | 0.103 | 260.015 | 1.416 | 0.103 | 0.12 | 0.0 | 0.103 | 0.119 | 0.0 |
| 2 | 1970 | 1971 | SN | 1 | -34.598 | 24.601 | 1.064 | -33.794 | 25.458 | 1.33 | -17.796 | 27.856 | 5.637 | -28.474 | 29.658 | 2.991 | 0.103 | 243.494 | 3.316 | 0.103 | 202.391 | 2.686 | 0.103 | 5.165 | 0.023 | 0.103 | 59.51 | 0.016 |
| 3 | 1971 | 1972 | NS | 2 | -32.439 | 26.541 | 0.397 | -33.393 | 27.761 | 0.483 | 0.317 | 34.076 | 7.255 | -0.068 | 31.954 | 15.249 | 0.103 | 148.143 | 1.21 | 0.103 | 184.554 | 1.186 | 0.102 | 0.171 | 0.0 | 0.102 | 0.178 | 0.0 |
| 4 | 1971 | 1972 | SN | 1 | -34.815 | 24.608 | 1.043 | -34.954 | 25.554 | 1.533 | 4.131 | 27.984 | 8.335 | 7.955 | 31.279 | 5.482 | 0.103 | 255.981 | 6.067 | 0.103 | 264.352 | 5.643 | 0.103 | 0.13 | 0.0 | 0.103 | 0.113 | 0.0 |
| 5 | 1972 | 1973 | SN | 1 | -34.187 | 23.099 | 0.05 | -34.258 | 23.283 | 0.067 | 5.088 | 31.963 | 10.826 | 5.305 | 27.13 | 6.757 | 0.103 | 221.488 | 2.288 | 0.103 | 225.161 | 1.969 | 0.102 | 0.124 | 0.0 | 0.103 | 0.123 | 0.0 |
| 6 | 1972 | 1973 | NS | 1 | -34.778 | 26.394 | 0.356 | -34.963 | 26.675 | 0.414 | -3.383 | 28.402 | 7.455 | -12.407 | 29.266 | 13.127 | 0.103 | 253.764 | 5.668 | 0.103 | 264.85 | 5.975 | 0.103 | 0.272 | 0.0 | 0.103 | 1.551 | 0.002 |
| 7 | 1973 | 1974 | SN | 1 | -34.679 | 25.928 | 0.006 | -34.553 | 25.124 | 0.006 | 5.706 | 27.09 | 11.167 | 6.402 | 26.756 | 5.994 | 0.103 | 248.118 | 2.245 | 0.103 | 241.067 | 1.664 | 0.103 | 0.121 | 0.0 | 0.103 | 0.118 | 0.0 |
| 8 | 1973 | 1974 | NS | 1 | -34.371 | 25.404 | 0.281 | -34.612 | 27.169 | 0.27 | -11.918 | 28.519 | 7.261 | -13.27 | 31.053 | 12.139 | 0.103 | 231.15 | 1.85 | 0.103 | 244.343 | 2.299 | 0.103 | 1.395 | 0.007 | 0.103 | 1.874 | 0.002 |
| 9 | 1974 | 1975 | NS | 1 | -33.952 | 24.418 | 0.042 | -34.004 | 25.079 | 0.062 | -25.401 | 28.637 | 4.172 | -27.388 | 28.881 | 8.315 | 0.103 | 209.886 | 3.445 | 0.103 | 212.441 | 3.504 | 0.103 | 29.373 | 0.076 | 0.103 | 46.363 | 0.052 |
| 10 | 1974 | 1975 | SN | 1 | -34.909 | 23.564 | 0.002 | -34.498 | 26.592 | 0.011 | 6.284 | 28.643 | 17.061 | 7.404 | 28.335 | 19.124 | 0.103 | 261.564 | 1.854 | 0.103 | 237.979 | 2.029 | 0.103 | 0.119 | 0.0 | 0.103 | 0.115 | 0.0 |
| 11 | 1975 | 1976 | SN | 1 | -34.946 | 25.151 | 0.003 | -34.807 | 25.229 | 0.003 | 6.448 | 27.789 | 16.142 | 7.836 | 29.011 | 14.229 | 0.103 | 263.885 | 2.095 | 0.103 | 255.553 | 1.988 | 0.103 | 0.118 | 0.0 | 0.103 | 0.114 | 0.0 |
| 12 | 1975 | 1976 | NS | 1 | -34.256 | 25.396 | 1.072 | -34.123 | 25.176 | 1.275 | -11.254 | 28.926 | 8.268 | -19.701 | 28.917 | 11.78 | 0.103 | 225.071 | 2.054 | 0.103 | 218.315 | 1.831 | 0.103 | 1.209 | 0.002 | 0.103 | 7.962 | 0.002 |
| 13 | 1976 | 1977 | NS | 1 | -33.953 | 25.086 | 1.123 | -34.988 | 25.622 | 1.476 | -1.804 | 28.307 | 12.92 | -3.798 | 29.3 | 18.137 | 0.103 | 209.911 | 1.178 | 0.103 | 266.412 | 1.13 | 0.103 | 0.218 | 0.0 | 0.103 | 0.29 | 0.0 |
| 14 | 1976 | 1977 | SN | 1 | -34.617 | 26.061 | 0.247 | -34.683 | 25.668 | 0.269 | 6.546 | 34.013 | 9.849 | 10.206 | 32.046 | 8.535 | 0.103 | 244.596 | 3.031 | 0.103 | 248.362 | 2.897 | 0.102 | 0.118 | 0.0 | 0.102 | 0.109 | 0.0 |
| 15 | 1977 | 1978 | NS | 2 | -34.012 | 26.576 | 1.156 | -34.255 | 27.192 | 1.47 | 6.094 | 29.188 | 9.671 | 5.843 | 32.19 | 16.375 | 0.103 | 212.824 | 0.737 | 0.103 | 224.997 | 0.628 | 0.103 | 0.119 | 0.0 | 0.102 | 0.12 | 0.0 |
| 16 | 1977 | 1978 | NS | 3 | -34.012 | 26.576 | 1.156 | -34.255 | 27.192 | 1.47 | 6.094 | 29.188 | 9.671 | 5.843 | 32.19 | 16.375 | 0.103 | 212.824 | 0.737 | 0.103 | 224.997 | 0.628 | 0.103 | 0.119 | 0.0 | 0.102 | 0.12 | 0.0 |
| 17 | 1977 | 1978 | SN | 1 | -34.068 | 26.033 | 0.713 | -34.6 | 26.845 | 0.774 | -6.763 | 34.65 | 10.794 | -5.614 | 33.696 | 10.227 | 0.103 | 215.497 | 3.076 | 0.103 | 243.61 | 2.21 | 0.102 | 0.485 | 0.0 | 0.102 | 0.393 | 0.0 |
| 18 | 1977 | 1978 | NS | 1 | -34.012 | 26.576 | 1.156 | -34.255 | 27.192 | 1.47 | 6.094 | 29.188 | 9.671 | 5.843 | 32.19 | 16.375 | 0.103 | 212.824 | 0.737 | 0.103 | 224.997 | 0.628 | 0.103 | 0.119 | 0.0 | 0.102 | 0.12 | 0.0 |
| 19 | 1978 | 1979 | NS | 1 | -34.286 | 25.331 | 0.144 | -34.905 | 26.773 | 0.161 | -2.879 | 29.065 | 21.819 | -2.69 | 29.76 | 35.871 | 0.103 | 226.642 | 1.668 | 0.103 | 261.317 | 1.326 | 0.103 | 0.252 | 0.0 | 0.103 | 0.245 | 0.0 |
| 20 | 1978 | 1979 | SN | 1 | -33.599 | 27.715 | 0.729 | -34.311 | 27.381 | 0.857 | -19.39 | 28.703 | 14.659 | -7.192 | 29.313 | 12.22 | 0.103 | 193.498 | 1.988 | 0.103 | 227.951 | 1.268 | 0.103 | 7.418 | 0.01 | 0.103 | 0.526 | 0.0 |
| 21 | 1979 | 1980 | NS | 2 | -34.297 | 25.096 | 0.07 | -34.83 | 26.485 | 0.019 | -3.522 | 30.697 | 13.658 | -2.469 | 32.164 | 24.003 | 0.103 | 227.168 | 3.516 | 0.103 | 256.905 | 3.051 | 0.103 | 0.278 | 0.0 | 0.102 | 0.238 | 0.0 |
| 22 | 1979 | 1980 | NS | 1 | -34.297 | 25.096 | 0.07 | -34.83 | 26.485 | 0.019 | -3.522 | 30.697 | 13.658 | -2.469 | 32.164 | 24.003 | 0.103 | 227.168 | 3.516 | 0.103 | 256.905 | 3.051 | 0.103 | 0.278 | 0.0 | 0.102 | 0.238 | 0.0 |
| 23 | 1979 | 1980 | SN | 1 | -34.798 | 27.591 | 0.511 | -34.968 | 28.377 | 0.649 | -5.634 | 28.388 | 13.523 | -0.45 | 29.311 | 11.243 | 0.103 | 255.019 | 4.958 | 0.103 | 265.15 | 4.119 | 0.103 | 0.394 | 0.0 | 0.103 | 0.185 | 0.0 |
| 24 | 1980 | 1981 | NS | 2 | -34.685 | 24.358 | 0.134 | -34.586 | 23.34 | 0.187 | 4.186 | 28.262 | 17.618 | 4.87 | 29.918 | 25.652 | 0.103 | 248.444 | 2.984 | 0.103 | 242.815 | 2.743 | 0.103 | 0.129 | 0.0 | 0.103 | 0.125 | 0.0 |
| 25 | 1980 | 1981 | SN | 1 | -34.598 | 26.516 | 0.222 | -34.662 | 27.094 | 0.398 | -5.052 | 28.617 | 15.018 | -6.154 | 29.697 | 14.281 | 0.103 | 243.572 | 4.326 | 0.103 | 247.139 | 3.038 | 0.103 | 0.356 | 0.0 | 0.103 | 0.433 | 0.0 |
| 26 | 1981 | 1982 | SN | 1 | -34.83 | 25.383 | 0.257 | -33.18 | 26.053 | 0.785 | -9.013 | 28.959 | 12.316 | -19.325 | 29.393 | 11.414 | 0.103 | 256.855 | 2.106 | 0.103 | 175.714 | 1.83 | 0.103 | 0.755 | 0.0 | 0.103 | 7.308 | 0.004 |
| 27 | 1981 | 1982 | NS | 1 | -34.939 | 23.872 | 0.147 | -34.057 | 23.849 | 0.251 | 13.165 | 28.55 | 28.727 | 13.453 | 29.181 | 38.824 | 0.103 | 263.377 | 2.235 | 0.103 | 215.03 | 2.238 | 0.103 | 0.106 | 0.0 | 0.103 | 0.105 | 0.0 |
| 28 | 1982 | 1983 | SN | 1 | -34.097 | 26.223 | 0.201 | -33.987 | 26.524 | 0.661 | -20.926 | 28.725 | 21.929 | -8.254 | 29.902 | 22.983 | 0.103 | 216.997 | 2.546 | 0.103 | 211.562 | 1.77 | 0.103 | 10.531 | 0.002 | 0.103 | 0.648 | 0.0 |
| 29 | 1982 | 1983 | NS | 1 | -34.249 | 25.274 | 0.29 | -34.731 | 25.671 | 0.337 | 9.929 | 28.105 | 25.762 | 11.239 | 28.894 | 32.319 | 0.103 | 224.674 | 2.183 | 0.103 | 251.098 | 2.269 | 0.103 | 0.109 | 0.0 | 0.103 | 0.107 | 0.0 |
| 30 | 1983 | 1984 | SN | 1 | -34.906 | 24.833 | 0.143 | -34.806 | 25.127 | 0.446 | 7.222 | 28.654 | 36.236 | 7.28 | 29.608 | 42.927 | 0.103 | 261.449 | 2.301 | 0.103 | 255.443 | 2.021 | 0.103 | 0.115 | 0.0 | 0.103 | 0.115 | 0.0 |
| 31 | 1983 | 1984 | NS | 1 | -34.772 | 26.525 | 0.607 | -34.942 | 27.215 | 0.581 | 6.849 | 28.983 | 24.148 | 7.977 | 29.041 | 32.478 | 0.103 | 253.467 | 2.115 | 0.103 | 263.609 | 1.672 | 0.103 | 0.117 | 0.0 | 0.103 | 0.113 | 0.0 |
| 32 | 1984 | 1985 | SN | 2 | -33.48 | 24.123 | 0.446 | -34.905 | 24.57 | 0.74 | 6.298 | 27.961 | 11.036 | 8.763 | 28.293 | 10.615 | 0.103 | 188.268 | 1.208 | 0.103 | 261.368 | 0.884 | 0.103 | 0.119 | 0.0 | 0.103 | 0.111 | 0.0 |
| 33 | 1984 | 1985 | NS | 1 | -34.869 | 27.828 | 0.737 | -34.246 | 28.603 | 0.685 | 5.014 | 30.365 | 14.837 | 4.948 | 30.917 | 22.48 | 0.103 | 259.191 | 2.783 | 0.103 | 224.544 | 2.521 | 0.103 | 0.124 | 0.0 | 0.103 | 0.125 | 0.0 |

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

- Normal
- Deviations
- Alarming
- High Errors

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|---------|--------|-------|---------|--------|-------|---------|--------|--------|---------|--------|--------|-------|---------|-------|-------|---------|-------|-------|--------|-------|-------|-------|-------|
| 34 | 1984 | 1985 | SN | 1 | -33.48 | 24.123 | 0.446 | -34.905 | 24.57 | 0.74 | 6.298 | 27.961 | 11.036 | 8.763 | 28.293 | 10.615 | 0.103 | 188.268 | 1.208 | 0.103 | 261.368 | 0.884 | 0.103 | 0.119 | 0.0 | 0.103 | 0.111 | 0.0 |
| 35 | 1985 | 1986 | SN | 3 | -34.755 | 24.526 | 1.058 | -34.98 | 26.103 | 1.7 | -1.896 | 27.548 | 8.811 | 0.717 | 29.02 | 9.362 | 0.103 | 252.411 | 5.886 | 0.103 | 265.885 | 4.684 | 0.103 | 0.22 | 0.0 | 0.103 | 0.165 | 0.0 |
| 36 | 1985 | 1986 | NS | 4 | -33.085 | 28.061 | 0.658 | -33.092 | 29.616 | 0.721 | 8.699 | 32.877 | 10.864 | 7.022 | 32.012 | 20.394 | 0.103 | 171.916 | 0.292 | 0.103 | 172.163 | 0.308 | 0.102 | 0.112 | 0.0 | 0.102 | 0.116 | 0.0 |
| 37 | 1985 | 1986 | NS | 2 | -33.085 | 28.061 | 0.658 | -33.092 | 29.616 | 0.721 | 8.699 | 32.877 | 10.864 | 7.022 | 32.012 | 20.394 | 0.103 | 171.916 | 0.292 | 0.103 | 172.163 | 0.308 | 0.102 | 0.112 | 0.0 | 0.102 | 0.116 | 0.0 |
| 38 | 1985 | 1986 | SN | 1 | -34.755 | 24.526 | 1.058 | -34.98 | 26.103 | 1.7 | -1.896 | 27.548 | 8.811 | 0.717 | 29.02 | 9.362 | 0.103 | 252.411 | 5.886 | 0.103 | 265.885 | 4.684 | 0.103 | 0.22 | 0.0 | 0.103 | 0.165 | 0.0 |
| 39 | 1986 | 1987 | SN | 1 | -34.564 | 25.399 | 1.068 | -34.824 | 25.464 | 1.331 | 3.439 | 33.426 | 6.742 | 4.623 | 34.036 | 2.945 | 0.103 | 241.66 | 6.211 | 0.103 | 256.565 | 5.392 | 0.102 | 0.134 | 0.0 | 0.102 | 0.127 | 0.0 |
| 40 | 1986 | 1987 | SN | 2 | -34.564 | 25.399 | 1.068 | -34.824 | 25.464 | 1.331 | 3.439 | 33.426 | 6.742 | 4.623 | 34.036 | 2.945 | 0.103 | 241.66 | 6.211 | 0.103 | 256.565 | 5.392 | 0.102 | 0.134 | 0.0 | 0.102 | 0.127 | 0.0 |
| 41 | 1986 | 1987 | NS | 1 | -34.702 | 26.997 | 0.121 | -34.77 | 27.981 | 0.142 | -7.619 | 32.964 | 5.949 | -5.221 | 31.579 | 13.156 | 0.103 | 249.429 | 2.283 | 0.103 | 253.307 | 2.511 | 0.102 | 0.572 | 0.0 | 0.102 | 0.367 | 0.0 |
| 42 | 1986 | 1987 | NS | 2 | -34.702 | 26.997 | 0.121 | -34.77 | 27.981 | 0.142 | -7.619 | 32.964 | 5.949 | -5.221 | 31.579 | 13.156 | 0.103 | 249.429 | 2.283 | 0.103 | 253.307 | 2.511 | 0.102 | 0.572 | 0.0 | 0.102 | 0.367 | 0.0 |
| 43 | 1987 | 1988 | SN | 1 | -34.232 | 25.685 | 0.003 | -34.948 | 25.066 | 0.005 | 7.509 | 27.419 | 12.87 | 7.103 | 27.224 | 6.956 | 0.103 | 223.833 | 2.608 | 0.103 | 263.913 | 2.207 | 0.103 | 0.115 | 0.0 | 0.103 | 0.116 | 0.0 |
| 44 | 1987 | 1988 | NS | 1 | -34.793 | 26.431 | 0.219 | -34.803 | 27.096 | 0.279 | -6.941 | 27.887 | 7.858 | -13.688 | 30.552 | 13.772 | 0.103 | 254.733 | 6.021 | 0.103 | 255.218 | 6.667 | 0.103 | 0.502 | 0.0 | 0.103 | 2.055 | 0.002 |
| 45 | 1987 | 1988 | SN | 2 | -34.232 | 25.685 | 0.003 | -34.948 | 25.066 | 0.005 | 7.509 | 27.419 | 12.87 | 7.103 | 27.224 | 6.956 | 0.103 | 223.833 | 2.608 | 0.103 | 263.913 | 2.207 | 0.103 | 0.115 | 0.0 | 0.103 | 0.116 | 0.0 |
| 46 | 1988 | 1989 | SN | 1 | -34.354 | 25.563 | 0.003 | -34.923 | 27.218 | 0.006 | 6.41 | 27.141 | 14.9 | 6.789 | 27.05 | 13.082 | 0.103 | 230.235 | 2.751 | 0.103 | 262.422 | 2.156 | 0.103 | 0.118 | 0.0 | 0.103 | 0.117 | 0.0 |
| 47 | 1988 | 1989 | NS | 1 | -34.773 | 25.363 | 0.231 | -34.906 | 25.574 | 0.237 | -27.538 | 28.508 | 4.492 | -16.828 | 30.481 | 8.365 | 0.103 | 253.563 | 4.694 | 0.103 | 261.378 | 4.517 | 0.103 | 47.975 | 0.031 | 0.103 | 4.149 | 0.011 |
| 48 | 1988 | 1989 | NS | 2 | -34.773 | 25.363 | 0.231 | -34.906 | 25.574 | 0.237 | -27.538 | 28.508 | 4.492 | -16.828 | 30.481 | 8.365 | 0.103 | 253.563 | 4.694 | 0.103 | 261.378 | 4.517 | 0.103 | 47.975 | 0.031 | 0.103 | 4.149 | 0.011 |
| 49 | 1988 | 1989 | SN | 2 | -34.354 | 25.563 | 0.003 | -34.923 | 27.218 | 0.006 | 6.41 | 27.141 | 14.9 | 6.789 | 27.05 | 13.082 | 0.103 | 230.235 | 2.751 | 0.103 | 262.422 | 2.156 | 0.103 | 0.118 | 0.0 | 0.103 | 0.117 | 0.0 |
| 50 | 1989 | 1990 | SN | 1 | -34.942 | 25.337 | 0.005 | -34.472 | 27.192 | 0.019 | 5.983 | 27.791 | 15.95 | 7.503 | 28.488 | 19.627 | 0.103 | 263.613 | 3.75 | 0.103 | 236.506 | 2.761 | 0.103 | 0.12 | 0.0 | 0.103 | 0.115 | 0.0 |
| 51 | 1989 | 1990 | NS | 1 | -34.374 | 23.728 | 0.253 | -34.868 | 24.154 | 0.354 | -14.63 | 27.814 | 6.131 | -20.126 | 28.909 | 10.986 | 0.103 | 231.241 | 5.345 | 0.103 | 259.11 | 4.561 | 0.103 | 2.533 | 0.003 | 0.103 | 8.775 | 0.004 |
| 52 | 1989 | 1990 | NS | 2 | -34.374 | 23.728 | 0.253 | -34.868 | 24.154 | 0.354 | -14.63 | 27.814 | 6.131 | -20.126 | 28.909 | 10.986 | 0.103 | 231.241 | 5.345 | 0.103 | 259.11 | 4.561 | 0.103 | 2.533 | 0.003 | 0.103 | 8.775 | 0.004 |
| 53 | 1989 | 1990 | SN | 2 | -34.942 | 25.337 | 0.005 | -34.472 | 27.192 | 0.019 | 5.983 | 27.791 | 15.95 | 7.503 | 28.488 | 19.627 | 0.103 | 263.613 | 3.75 | 0.103 | 236.506 | 2.761 | 0.103 | 0.12 | 0.0 | 0.103 | 0.115 | 0.0 |
| 54 | 1990 | 1991 | SN | 1 | -34.533 | 21.686 | 0.0 | -34.994 | 22.596 | 0.002 | 6.108 | 27.436 | 12.786 | 7.839 | 28.267 | 11.522 | 0.103 | 239.904 | 4.087 | 0.103 | 266.807 | 2.963 | 0.103 | 0.119 | 0.0 | 0.103 | 0.114 | 0.0 |
| 55 | 1990 | 1991 | SN | 2 | -34.533 | 21.686 | 0.0 | -34.994 | 22.596 | 0.002 | 6.108 | 27.436 | 12.786 | 7.839 | 28.267 | 11.522 | 0.103 | 239.904 | 4.087 | 0.103 | 266.807 | 2.963 | 0.103 | 0.119 | 0.0 | 0.103 | 0.114 | 0.0 |
| 56 | 1990 | 1991 | NS | 1 | -34.738 | 25.15 | 1.505 | -34.662 | 25.69 | 1.913 | -8.875 | 28.451 | 8.54 | -8.035 | 29.622 | 13.023 | 0.103 | 251.503 | 1.932 | 0.103 | 247.153 | 2.081 | 0.103 | 0.735 | 0.0 | 0.103 | 0.62 | 0.0 |
| 57 | 1990 | 1991 | NS | 2 | -34.738 | 25.15 | 1.505 | -34.662 | 25.69 | 1.913 | -8.875 | 28.451 | 8.54 | -8.035 | 29.622 | 13.023 | 0.103 | 251.503 | 1.932 | 0.103 | 247.153 | 2.081 | 0.103 | 0.735 | 0.0 | 0.103 | 0.62 | 0.0 |
| 58 | 1991 | 1992 | NS | 2 | -34.677 | 25.744 | 1.057 | -33.392 | 26.473 | 1.436 | 7.431 | 28.45 | 10.938 | 6.049 | 28.75 | 19.618 | 0.103 | 248.036 | 0.934 | 0.103 | 184.443 | 0.847 | 0.103 | 0.115 | 0.0 | 0.103 | 0.12 | 0.0 |
| 59 | 1991 | 1992 | SN | 1 | -34.852 | 24.789 | 0.241 | -34.246 | 25.319 | 0.276 | 0.95 | 32.777 | 9.212 | 6.003 | 30.875 | 9.73 | 0.103 | 258.182 | 2.094 | 0.103 | 224.508 | 1.599 | 0.102 | 0.161 | 0.0 | 0.103 | 0.12 | 0.0 |
| 60 | 1991 | 1992 | NS | 1 | -34.677 | 25.744 | 1.057 | -33.392 | 26.473 | 1.436 | 7.431 | 28.45 | 10.938 | 6.049 | 28.75 | 19.618 | 0.103 | 248.036 | 0.934 | 0.103 | 184.443 | 0.847 | 0.103 | 0.115 | 0.0 | 0.103 | 0.12 | 0.0 |
| 61 | 1991 | 1992 | SN | 2 | -34.852 | 24.789 | 0.241 | -34.246 | 25.319 | 0.276 | 0.95 | 32.777 | 9.212 | 6.003 | 30.875 | 9.73 | 0.103 | 258.182 | 2.094 | 0.103 | 224.508 | 1.599 | 0.102 | 0.161 | 0.0 | 0.103 | 0.12 | 0.0 |
| 62 | 1992 | 1993 | SN | 1 | -33.42 | 25.484 | 0.65 | -34.919 | 26.411 | 0.688 | -5.536 | 29.946 | 11.556 | -2.636 | 30.852 | 10.933 | 0.103 | 185.647 | 1.211 | 0.103 | 262.179 | 1.298 | 0.103 | 0.387 | 0.0 | 0.103 | 0.244 | 0.0 |
| 63 | 1992 | 1993 | SN | 2 | -33.42 | 25.484 | 0.65 | -34.919 | 26.411 | 0.688 | -5.536 | 29.946 | 11.556 | -2.636 | 30.852 | 10.933 | 0.103 | 185.647 | 1.211 | 0.103 | 262.179 | 1.298 | 0.103 | 0.387 | 0.0 | 0.103 | 0.244 | 0.0 |
| 64 | 1992 | 1993 | NS | 2 | -34.923 | 26.731 | 0.03 | -34.671 | 25.077 | 0.044 | -1.53 | 29.345 | 13.014 | 1.762 | 29.534 | 22.112 | 0.103 | 262.423 | 0.704 | 0.103 | 247.668 | 0.819 | 0.103 | 0.21 | 0.0 | 0.103 | 0.151 | 0.0 |
| 65 | 1992 | 1993 | NS | 1 | -34.923 | 26.731 | 0.03 | -34.671 | 25.077 | 0.044 | -1.53 | 29.345 | 13.014 | 1.762 | 29.534 | 22.112 | 0.103 | 262.423 | 0.704 | 0.103 | 247.668 | 0.819 | 0.103 | 0.21 | 0.0 | 0.103 | 0.151 | 0.0 |
| 66 | 1993 | 1994 | SN | 1 | -34.103 | 27.441 | 0.401 | -31.998 | 28.211 | 0.579 | -14.169 | 29.766 | 14.536 | -1.669 | 29.485 | 12.332 | 0.103 | 217.278 | 2.077 | 0.103 | 133.844 | 1.928 | 0.103 | 2.286 | 0.003 | 0.103 | 0.214 | 0.0 |
| 67 | 1993 | 1994 | SN | 2 | -34.103 | 27.441 | 0.401 | -31.998 | 28.211 | 0.579 | -14.169 | 29.766 | 14.536 | -1.669 | 29.485 | 12.332 | 0.103 | 217.278 | 2.077 | 0.103 | 133.844 | 1.928 | 0.103 | 2.286 | 0.003 | 0.103 | 0.214 | 0.0 |
| 68 | 1993 | 1994 | NS | 1 | -34.278 | 24.941 | 0.06 | -34.823 | 27.897 | 0.075 | -0.866 | 30.158 | 21.421 | -1.265 | 30.083 | 35.497 | 0.103 | 226.252 | 3.18 | 0.103 | 256.461 | 3.162 | 0.103 | 0.194 | 0.0 | 0.103 | 0.203 | 0.0 |
| 69 | 1993 | 1994 | NS | 2 | -34.278 | 24.941 | 0.06 | -34.823 | 27.897 | 0.075 | -0.866 | 30.158 | 21.421 | -1.265 | 30.083 | 35.497 | 0.103 | 226.252 | 3.18 | 0.103 | 256.461 | 3.162 | 0.103 | 0.194 | 0.0 | 0.103 | 0.203 | 0.0 |
| 70 | 1994 | 1995 | NS | 1 | -34.971 | 24.082 | 0.062 | -34.994 | 24.178 | 0.037 | 5.294 | 28.713 | 14.976 | 7.084 | 29.851 | 23.539 | 0.103 | 265.403 | 4.906 | 0.103 | 266.776 | 4.612 | 0.103 | 0.123 | 0.0 | 0.103 | 0.116 | 0.0 |
| 71 | 1994 | 1995 | SN | 1 | -34.702 | 28.216 | 0.24 | -34.769 | 28.312 | 0.364 | -16.068 | 29.065 | 16.869 | -8.657 | 30.575 | 15.994 | 0.103 | 249.445 | 6.316 | 0.103 | 253.227 | 6.037 | 0.103 | 3.496 | 0.002 | 0.103 | 0.703 | 0.0 |
| 72 | 1994 | 1995 | SN | 2 | -34.702 | 28.216 | 0.24 | -34.769 | 28.312 | 0.364 | -16.068 | 29.065 | 16.869 | -8.657 | 30.575 | 15.994 | 0.103 | 249.445 | 6.316 | 0.103 | 253.227 | 6.037 | 0.103 | 3.496 | 0.002 | 0.103 | 0.703 | 0.0 |

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

- Normal
- Deviations
- Alarming
- High Errors

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|---------|--------|-------|---------|--------|-------|--------|--------|--------|---------|--------|--------|-------|---------|-------|-------|---------|-------|-------|--------|-------|-------|--------|-------|
| 73 | 1994 | 1995 | NS | 2 | -34.971 | 24.082 | 0.062 | -34.994 | 24.178 | 0.037 | 5.294 | 28.713 | 14.976 | 7.084 | 29.851 | 23.539 | 0.103 | 265.403 | 4.906 | 0.103 | 266.776 | 4.612 | 0.103 | 0.123 | 0.0 | 0.103 | 0.116 | 0.0 |
| 74 | 1995 | 1996 | NS | 1 | -34.561 | 24.873 | 0.204 | -34.575 | 24.265 | 0.402 | 8.934 | 32.849 | 23.154 | 8.144 | 29.854 | 31.211 | 0.103 | 241.418 | 5.209 | 0.103 | 242.257 | 6.0 | 0.102 | 0.111 | 0.0 | 0.103 | 0.113 | 0.0 |
| 75 | 1995 | 1996 | SN | 2 | -34.348 | 25.537 | 0.194 | -34.963 | 25.458 | 0.507 | -21.31 | 28.952 | 13.994 | -23.281 | 29.516 | 11.282 | 0.103 | 229.872 | 3.164 | 0.103 | 264.861 | 2.582 | 0.103 | 11.497 | 0.023 | 0.103 | 18.055 | 0.016 |
| 76 | 1995 | 1996 | SN | 1 | -34.348 | 25.537 | 0.194 | -34.963 | 25.458 | 0.507 | -21.31 | 28.952 | 13.994 | -23.281 | 29.516 | 11.282 | 0.103 | 229.872 | 3.164 | 0.103 | 264.861 | 2.582 | 0.103 | 11.497 | 0.023 | 0.103 | 18.055 | 0.016 |
| 77 | 1995 | 1996 | NS | 2 | -34.561 | 24.873 | 0.204 | -34.575 | 24.265 | 0.402 | 8.934 | 32.849 | 23.154 | 8.144 | 29.854 | 31.211 | 0.103 | 241.418 | 5.209 | 0.103 | 242.257 | 6.0 | 0.102 | 0.111 | 0.0 | 0.103 | 0.113 | 0.0 |
| 78 | 1996 | 1997 | SN | 2 | -34.736 | 26.1 | 0.326 | -34.784 | 26.76 | 0.934 | -4.333 | 28.915 | 14.718 | -3.346 | 30.041 | 14.722 | 0.103 | 251.397 | 3.972 | 0.103 | 254.165 | 4.402 | 0.103 | 0.316 | 0.0 | 0.103 | 0.27 | 0.0 |
| 79 | 1996 | 1997 | NS | 1 | -33.732 | 24.882 | 0.195 | -34.575 | 26.024 | 0.286 | 11.832 | 28.686 | 28.932 | 12.226 | 29.143 | 36.005 | 0.103 | 199.495 | 1.232 | 0.103 | 242.241 | 1.593 | 0.103 | 0.107 | 0.0 | 0.103 | 0.106 | 0.0 |
| 80 | 1996 | 1997 | SN | 1 | -34.736 | 26.1 | 0.326 | -34.784 | 26.76 | 0.934 | -4.333 | 28.915 | 14.718 | -3.346 | 30.041 | 14.722 | 0.103 | 251.397 | 3.972 | 0.103 | 254.165 | 4.402 | 0.103 | 0.316 | 0.0 | 0.103 | 0.27 | 0.0 |
| 81 | 1996 | 1997 | NS | 2 | -33.732 | 24.882 | 0.195 | -34.575 | 26.024 | 0.286 | 11.832 | 28.686 | 28.932 | 12.226 | 29.143 | 36.005 | 0.103 | 199.495 | 1.232 | 0.103 | 242.241 | 1.593 | 0.103 | 0.107 | 0.0 | 0.103 | 0.106 | 0.0 |
| 82 | 1997 | 1998 | NS | 2 | -34.852 | 25.676 | 0.325 | -34.397 | 26.264 | 0.279 | 5.723 | 28.38 | 26.522 | 6.66 | 29.2 | 34.663 | 0.103 | 258.209 | 3.007 | 0.103 | 232.495 | 3.014 | 0.103 | 0.121 | 0.0 | 0.103 | 0.117 | 0.0 |
| 83 | 1997 | 1998 | NS | 1 | -34.852 | 25.676 | 0.325 | -34.397 | 26.264 | 0.279 | 5.723 | 28.38 | 26.522 | 6.66 | 29.2 | 34.663 | 0.103 | 258.209 | 3.007 | 0.103 | 232.495 | 3.014 | 0.103 | 0.121 | 0.0 | 0.103 | 0.117 | 0.0 |
| 84 | 1997 | 1998 | SN | 1 | -34.781 | 25.444 | 0.153 | -34.668 | 25.175 | 0.507 | 2.117 | 29.098 | 36.162 | 3.131 | 29.522 | 44.089 | 0.103 | 253.96 | 2.362 | 0.103 | 247.49 | 2.19 | 0.103 | 0.147 | 0.0 | 0.103 | 0.137 | 0.0 |
| 85 | 1997 | 1998 | SN | 2 | -34.781 | 25.444 | 0.153 | -34.668 | 25.175 | 0.507 | 2.117 | 29.098 | 36.162 | 3.131 | 29.522 | 44.089 | 0.103 | 253.96 | 2.362 | 0.103 | 247.49 | 2.19 | 0.103 | 0.147 | 0.0 | 0.103 | 0.137 | 0.0 |
| 86 | 1998 | 1999 | NS | 1 | -34.615 | 26.949 | 0.52 | -34.946 | 27.238 | 0.472 | 7.29 | 28.812 | 17.203 | 8.124 | 29.287 | 24.855 | 0.103 | 244.532 | 2.174 | 0.103 | 263.891 | 1.854 | 0.103 | 0.115 | 0.0 | 0.103 | 0.113 | 0.0 |
| 87 | 1998 | 1999 | SN | 1 | -34.656 | 24.194 | 0.012 | -34.247 | 24.5 | 0.301 | 7.144 | 28.946 | 24.081 | 8.715 | 29.327 | 25.968 | 0.103 | 246.741 | 1.546 | 0.103 | 224.636 | 1.156 | 0.103 | 0.116 | 0.0 | 0.103 | 0.112 | 0.0 |
| 88 | 1998 | 1999 | NS | 1 | -34.615 | 24.004 | 0.087 | -34.946 | 27.238 | 0.439 | 9.711 | 27.081 | 4.985 | 8.124 | 27.899 | 5.823 | 0.103 | 244.532 | 2.213 | 0.103 | 263.891 | 1.857 | 0.103 | 0.11 | 0.0 | 0.103 | 0.113 | 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 | 1970 | 1971 | NS | 2 | 57.555 | 58.246 | 0.0 | 0.003 | 1.969 | 0.163 | 1205.864 | 1275.256 | 8.646 | -93.009 | -91.996 | 0.0 |
| 2 | 1970 | 1971 | SN | 1 | 57.722 | 58.367 | 0.0 | 0.003 | 9.238 | 0.219 | 1234.528 | 1278.56 | 0.0 | -93.279 | -92.205 | 0.0 |
| 3 | 1971 | 1972 | NS | 2 | 57.586 | 58.268 | 0.0 | 0.003 | 1.974 | 0.154 | 1206.296 | 1275.336 | 7.536 | -93.094 | -91.999 | 0.0 |
| 4 | 1971 | 1972 | SN | 1 | 57.726 | 58.362 | 0.0 | 0.003 | 9.133 | 0.211 | 1234.192 | 1278.504 | 0.0 | -93.15 | -92.222 | 0.0 |
| 5 | 1972 | 1973 | SN | 1 | 57.719 | 58.388 | 0.0 | 0.003 | 9.061 | 0.205 | 1233.84 | 1278.632 | 0.0 | -93.104 | -92.24 | 0.0 |
| 6 | 1972 | 1973 | NS | 1 | 57.577 | 58.263 | 0.0 | 0.003 | 22.722 | 0.198 | 1206.376 | 1275.56 | 7.615 | -93.042 | -91.99 | 0.0 |
| 7 | 1973 | 1974 | SN | 1 | 57.717 | 58.383 | 0.0 | 0.003 | 8.973 | 0.204 | 1233.632 | 1278.568 | 0.0 | -93.454 | -92.242 | 0.0 |
| 8 | 1973 | 1974 | NS | 1 | 57.567 | 58.264 | 0.0 | 0.003 | 1.974 | 0.155 | 1207.264 | 1275.512 | 7.478 | -93.095 | -92.016 | 0.0 |
| 9 | 1974 | 1975 | NS | 1 | 57.57 | 58.269 | 0.0 | 0.003 | 22.396 | 0.203 | 1207.296 | 1275.424 | 7.381 | -93.075 | -92.005 | 0.0 |
| 10 | 1974 | 1975 | SN | 1 | 57.715 | 58.377 | 0.0 | 0.003 | 8.819 | 0.205 | 1233.696 | 1278.472 | 0.0 | -93.144 | -92.242 | 0.0 |
| 11 | 1975 | 1976 | SN | 1 | 57.71 | 58.384 | 0.0 | 0.003 | 1.98 | 0.197 | 1233.832 | 1278.968 | 0.0 | -93.331 | -92.242 | 0.0 |
| 12 | 1975 | 1976 | NS | 1 | 57.588 | 58.272 | 0.0 | 0.003 | 1.974 | 0.155 | 1206.872 | 1275.36 | 7.766 | -93.046 | -92.013 | 0.0 |
| 13 | 1976 | 1977 | NS | 1 | 57.562 | 58.271 | 0.0 | 0.0 | 22.446 | 0.206 | 1206.36 | 1275.352 | 8.173 | -93.113 | -92.017 | 0.0 |
| 14 | 1976 | 1977 | SN | 1 | 57.71 | 58.36 | 0.0 | 0.003 | 1.98 | 0.204 | 1233.696 | 1278.472 | 0.0 | -93.116 | -92.242 | 0.0 |
| 15 | 1977 | 1978 | NS | 2 | 57.559 | 58.258 | 0.0 | 0.003 | 1.974 | 0.153 | 1206.88 | 1275.56 | 8.819 | -93.017 | -92.024 | 0.0 |
| 16 | 1977 | 1978 | NS | 3 | 57.559 | 58.258 | 0.0 | 0.003 | 1.974 | 0.153 | 1206.88 | 1275.56 | 8.819 | -93.017 | -92.024 | 0.0 |
| 17 | 1977 | 1978 | SN | 1 | 57.71 | 58.363 | 0.0 | 0.003 | 1.98 | 0.205 | 1234.736 | 1278.8 | 0.0 | -93.325 | -92.216 | 0.0 |
| 18 | 1977 | 1978 | NS | 1 | 57.559 | 58.258 | 0.0 | 0.003 | 1.974 | 0.153 | 1206.88 | 1275.56 | 8.819 | -93.017 | -92.024 | 0.0 |
| 19 | 1978 | 1979 | NS | 1 | 57.585 | 58.258 | 0.0 | 0.003 | 1.974 | 0.159 | 1206.856 | 1275.712 | 8.477 | -93.29 | -91.969 | 0.0 |
| 20 | 1978 | 1979 | SN | 1 | 57.696 | 58.364 | 0.0 | 0.003 | 1.985 | 0.198 | 1234.096 | 1278.888 | 0.0 | -93.102 | -92.211 | 0.0 |
| 21 | 1979 | 1980 | NS | 2 | 57.555 | 58.267 | 0.0 | 0.003 | 1.974 | 0.161 | 1206.312 | 1275.656 | 8.363 | -93.341 | -92.001 | 0.0 |
| 22 | 1979 | 1980 | NS | 1 | 57.555 | 58.267 | 0.0 | 0.003 | 1.974 | 0.161 | 1206.312 | 1275.656 | 8.363 | -93.341 | -92.001 | 0.0 |
| 23 | 1979 | 1980 | SN | 1 | 57.712 | 58.389 | 0.0 | 0.003 | 1.98 | 0.198 | 1234.064 | 1278.816 | 0.0 | -93.1 | -92.237 | 0.0 |
| 24 | 1980 | 1981 | NS | 2 | 57.563 | 58.277 | 0.0 | 0.003 | 21.922 | 0.204 | 1206.352 | 1275.6 | 8.833 | -93.141 | -92.016 | 0.0 |
| 25 | 1980 | 1981 | SN | 1 | 57.699 | 58.369 | 0.0 | 0.003 | 1.98 | 0.203 | 1234.232 | 1278.792 | 0.0 | -93.108 | -92.209 | 0.0 |
| 26 | 1981 | 1982 | SN | 1 | 57.693 | 58.385 | 0.0 | 0.003 | 1.985 | 0.203 | 1233.968 | 1278.912 | 0.0 | -93.331 | -92.231 | 0.0 |
| 27 | 1981 | 1982 | NS | 1 | 57.556 | 58.272 | 0.0 | 0.008 | 249.631 | 0.155 | 1206.032 | 1275.736 | 9.276 | -93.453 | -92.023 | 0.0 |
| 28 | 1982 | 1983 | SN | 1 | 57.69 | 58.421 | 0.0 | 0.003 | 1.98 | 0.199 | 1233.728 | 1279.008 | 0.0 | -93.293 | -92.238 | 0.0 |
| 29 | 1982 | 1983 | NS | 1 | 57.547 | 58.271 | 0.0 | 0.003 | 1.974 | 0.155 | 1206.56 | 1275.824 | 9.906 | -93.067 | -92.01 | 0.0 |
| 30 | 1983 | 1984 | SN | 1 | 57.686 | 58.393 | 0.0 | 0.003 | 1.98 | 0.201 | 1234.552 | 1279.208 | 0.0 | -93.271 | -92.238 | 0.0 |
| 31 | 1983 | 1984 | NS | 1 | 57.56 | 58.252 | 0.0 | 0.003 | 1.98 | 0.155 | 1205.728 | 1276.024 | 10.257 | -93.013 | -92.009 | 0.0 |
| 32 | 1984 | 1985 | SN | 2 | 57.687 | 58.382 | 0.0 | 0.0 | 9.651 | 77.888 | 1234.688 | 1279.352 | 0.0 | -93.177 | -92.239 | 0.0 |
| 33 | 1984 | 1985 | NS | 1 | 57.562 | 58.258 | 0.0 | 0.003 | 1.974 | 0.159 | 1205.624 | 1276.16 | 10.511 | -93.117 | -92.009 | 0.0 |
| 34 | 1984 | 1985 | SN | 1 | 57.687 | 58.382 | 0.0 | 0.0 | 9.651 | 0.218 | 1234.688 | 1279.352 | 0.0 | -93.177 | -92.239 | 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 | 1985 | 1986 | SN | 3 | 57.68 | 58.365 | 0.0 | 0.003 | 277.708 | 79.11 | 1234.08 | 1279.192 | 0.0 | -93.262 | -92.202 | 0.0 |
| 36 | 1985 | 1986 | NS | 4 | 57.582 | 58.255 | 0.0 | 0.0 | 22.556 | 77.255 | 1206.256 | 1275.976 | 8.236 | -92.991 | -92.002 | 0.0 |
| 37 | 1985 | 1986 | NS | 2 | 57.582 | 58.255 | 0.0 | 0.0 | 22.556 | 0.209 | 1206.256 | 1275.976 | 8.236 | -92.991 | -92.002 | 0.0 |
| 38 | 1985 | 1986 | SN | 1 | 57.68 | 58.365 | 0.0 | 0.003 | 277.708 | 0.214 | 1234.08 | 1279.192 | 0.0 | -93.262 | -92.202 | 0.0 |
| 39 | 1986 | 1987 | SN | 1 | 57.68 | 58.387 | 0.0 | 0.003 | 1.98 | 0.2 | 1233.712 | 1279.416 | 0.0 | -93.339 | -92.208 | 0.0 |
| 40 | 1986 | 1987 | SN | 2 | 57.68 | 58.387 | 0.0 | 0.003 | 1.98 | 75.624 | 1233.712 | 1279.416 | 0.0 | -93.339 | -92.208 | 0.0 |
| 41 | 1986 | 1987 | NS | 1 | 57.583 | 58.254 | 0.0 | 0.003 | 1.974 | 0.149 | 1205.984 | 1276.328 | 8.075 | -93.236 | -91.978 | 0.0 |
| 42 | 1986 | 1987 | NS | 2 | 57.583 | 58.254 | 0.0 | 0.003 | 1.974 | 72.534 | 1205.984 | 1276.328 | 8.075 | -93.236 | -91.978 | 0.0 |
| 43 | 1987 | 1988 | SN | 1 | 57.671 | 58.374 | 0.0 | 0.003 | 9.387 | 0.204 | 1233.28 | 1279.432 | 0.0 | -93.091 | -92.24 | 0.0 |
| 44 | 1987 | 1988 | NS | 1 | 57.583 | 58.263 | 0.0 | 0.003 | 1.969 | 0.151 | 1206.152 | 1276.4 | 8.122 | -93.056 | -91.98 | 0.0 |
| 45 | 1987 | 1988 | SN | 2 | 57.671 | 58.374 | 0.0 | 0.003 | 9.387 | 73.538 | 1233.28 | 1279.432 | 0.0 | -93.091 | -92.24 | 0.0 |
| 46 | 1988 | 1989 | SN | 1 | 57.672 | 58.38 | 0.0 | 0.003 | 9.293 | 0.205 | 1233.192 | 1279.32 | 0.0 | -93.119 | -92.24 | 0.0 |
| 47 | 1988 | 1989 | NS | 1 | 57.552 | 58.28 | 0.0 | 0.003 | 1.974 | 0.156 | 1206.624 | 1276.288 | 7.441 | -93.235 | -91.994 | 0.0 |
| 48 | 1988 | 1989 | NS | 2 | 57.552 | 58.28 | 0.0 | 0.003 | 1.974 | 74.776 | 1206.624 | 1276.288 | 7.441 | -93.235 | -91.994 | 0.0 |
| 49 | 1988 | 1989 | SN | 2 | 57.672 | 58.38 | 0.0 | 0.003 | 9.293 | 73.848 | 1233.192 | 1279.32 | 0.0 | -93.119 | -92.24 | 0.0 |
| 50 | 1989 | 1990 | SN | 1 | 57.671 | 58.385 | 0.0 | 0.003 | 9.1 | 0.204 | 1233.232 | 1279.648 | 0.0 | -93.225 | -92.239 | 0.0 |
| 51 | 1989 | 1990 | NS | 1 | 57.554 | 58.271 | 0.0 | 0.003 | 1.974 | 0.158 | 1206.936 | 1276.48 | 8.555 | -93.078 | -92.016 | 0.0 |
| 52 | 1989 | 1990 | NS | 2 | 57.554 | 58.271 | 0.0 | 0.003 | 1.974 | 75.757 | 1206.936 | 1276.48 | 8.555 | -93.078 | -92.016 | 0.0 |
| 53 | 1989 | 1990 | SN | 2 | 57.671 | 58.385 | 0.0 | 0.003 | 9.1 | 73.744 | 1233.232 | 1279.648 | 0.0 | -93.225 | -92.239 | 0.0 |
| 54 | 1990 | 1991 | SN | 1 | 57.667 | 58.371 | 0.0 | 0.003 | 8.934 | 0.21 | 1233.392 | 1279.696 | 0.0 | -93.137 | -92.24 | 0.0 |
| 55 | 1990 | 1991 | SN | 2 | 57.667 | 58.371 | 0.0 | 0.003 | 8.934 | 75.586 | 1233.392 | 1279.696 | 0.0 | -93.137 | -92.24 | 0.0 |
| 56 | 1990 | 1991 | NS | 1 | 57.567 | 58.286 | 0.0 | 0.003 | 1.974 | 0.158 | 1206.848 | 1276.128 | 8.669 | -93.027 | -92.014 | 0.0 |
| 57 | 1990 | 1991 | NS | 2 | 57.567 | 58.286 | 0.0 | 0.003 | 1.974 | 75.874 | 1206.848 | 1276.128 | 8.669 | -93.027 | -92.014 | 0.0 |
| 58 | 1991 | 1992 | NS | 2 | 57.582 | 58.268 | 0.0 | 0.003 | 1.974 | 74.479 | 1206.688 | 1276.232 | 9.378 | -93.046 | -92.025 | 0.0 |
| 59 | 1991 | 1992 | SN | 1 | 57.664 | 58.384 | 0.0 | 0.003 | 1.98 | 0.208 | 1234.24 | 1279.368 | 0.0 | -93.427 | -92.214 | 0.0 |
| 60 | 1991 | 1992 | NS | 1 | 57.582 | 58.268 | 0.0 | 0.003 | 1.974 | 0.154 | 1206.688 | 1276.232 | 9.378 | -93.046 | -92.025 | 0.0 |
| 61 | 1991 | 1992 | SN | 2 | 57.664 | 58.384 | 0.0 | 0.003 | 1.98 | 77.464 | 1234.24 | 1279.368 | 0.0 | -93.427 | -92.214 | 0.0 |
| 62 | 1992 | 1993 | SN | 1 | 57.665 | 58.374 | 0.0 | 0.003 | 1.98 | 0.202 | 1234.408 | 1279.584 | 0.0 | -93.113 | -92.184 | 0.0 |
| 63 | 1992 | 1993 | SN | 2 | 57.665 | 58.374 | 0.0 | 0.003 | 1.98 | 75.432 | 1234.408 | 1279.584 | 0.0 | -93.113 | -92.184 | 0.0 |
| 64 | 1992 | 1993 | NS | 2 | 57.569 | 58.272 | 0.0 | 0.003 | 1.974 | 75.486 | 1206.176 | 1276.432 | 9.584 | -93.024 | -92.006 | 0.0 |
| 65 | 1992 | 1993 | NS | 1 | 57.569 | 58.272 | 0.0 | 0.003 | 1.974 | 0.155 | 1206.176 | 1276.432 | 9.584 | -93.024 | -92.006 | 0.0 |
| 66 | 1993 | 1994 | SN | 1 | 57.665 | 58.367 | 0.0 | 0.003 | 1.991 | 0.198 | 1234.12 | 1279.568 | 0.0 | -93.101 | -92.186 | 0.0 |
| 67 | 1993 | 1994 | SN | 2 | 57.665 | 58.367 | 0.0 | 0.003 | 1.991 | 73.514 | 1234.12 | 1279.568 | 0.0 | -93.101 | -92.186 | 0.0 |
| 68 | 1993 | 1994 | NS | 1 | 57.582 | 58.274 | 0.0 | 0.003 | 1.974 | 0.162 | 1206.472 | 1276.464 | 8.65 | -93.288 | -91.972 | 0.0 |
| 69 | 1993 | 1994 | NS | 2 | 57.582 | 58.274 | 0.0 | 0.003 | 1.974 | 78.137 | 1206.472 | 1276.464 | 8.65 | -93.288 | -91.972 | 0.0 |
| 70 | 1994 | 1995 | NS | 1 | 57.583 | 58.278 | 0.0 | 0.003 | 1.974 | 0.157 | 1206.2 | 1276.368 | 9.222 | -93.078 | -91.99 | 0.0 |
| 71 | 1994 | 1995 | SN | 1 | 57.665 | 58.381 | 0.0 | 0.003 | 1.985 | 0.201 | 1233.864 | 1279.448 | 0.0 | -93.073 | -92.227 | 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 |

| | | | | | | | | | | | | | | | | |
|----|------|------|----|---|--------|--------|-----|-------|--------|--------|----------|----------|--------|---------|---------|-----|
| 72 | 1994 | 1995 | SN | 2 | 57.665 | 58.381 | 0.0 | 0.003 | 1.985 | 74.738 | 1233.864 | 1279.448 | 0.0 | -93.073 | -92.227 | 0.0 |
| 73 | 1994 | 1995 | NS | 2 | 57.583 | 58.278 | 0.0 | 0.003 | 1.974 | 75.736 | 1206.2 | 1276.368 | 9.222 | -93.078 | -91.99 | 0.0 |
| 74 | 1995 | 1996 | NS | 1 | 57.55 | 58.285 | 0.0 | 0.008 | 1.974 | 0.152 | 1206.168 | 1276.512 | 9.509 | -93.144 | -92.023 | 0.0 |
| 75 | 1995 | 1996 | SN | 2 | 57.655 | 58.392 | 0.0 | 0.003 | 1.985 | 76.608 | 1233.776 | 1279.568 | 0.0 | -93.234 | -92.209 | 0.0 |
| 76 | 1995 | 1996 | SN | 1 | 57.655 | 58.392 | 0.0 | 0.003 | 1.985 | 0.205 | 1233.776 | 1279.568 | 0.0 | -93.234 | -92.209 | 0.0 |
| 77 | 1995 | 1996 | NS | 2 | 57.55 | 58.285 | 0.0 | 0.008 | 1.974 | 74.286 | 1206.168 | 1276.512 | 9.509 | -93.144 | -92.023 | 0.0 |
| 78 | 1996 | 1997 | SN | 2 | 57.627 | 58.39 | 0.0 | 0.003 | 1.985 | 75.219 | 1233.472 | 1279.696 | 0.0 | -93.118 | -92.22 | 0.0 |
| 79 | 1996 | 1997 | NS | 1 | 57.571 | 58.283 | 0.0 | 0.003 | 2.807 | 0.158 | 1205.76 | 1276.6 | 9.948 | -93.195 | -92.011 | 0.0 |
| 80 | 1996 | 1997 | SN | 1 | 57.627 | 58.39 | 0.0 | 0.003 | 1.985 | 0.202 | 1233.472 | 1279.696 | 0.0 | -93.118 | -92.22 | 0.0 |
| 81 | 1996 | 1997 | NS | 2 | 57.571 | 58.283 | 0.0 | 0.003 | 2.807 | 73.733 | 1205.76 | 1276.6 | 9.948 | -93.195 | -92.011 | 0.0 |
| 82 | 1997 | 1998 | NS | 2 | 57.559 | 58.275 | 0.0 | 0.003 | 1.974 | 75.077 | 1205.464 | 1276.72 | 10.723 | -93.076 | -92.015 | 0.0 |
| 83 | 1997 | 1998 | NS | 1 | 57.559 | 58.275 | 0.0 | 0.003 | 1.974 | 0.157 | 1205.464 | 1276.72 | 10.723 | -93.076 | -92.015 | 0.0 |
| 84 | 1997 | 1998 | SN | 1 | 57.614 | 58.395 | 0.0 | 0.003 | 1.985 | 0.198 | 1234.104 | 1279.856 | 0.0 | -93.199 | -92.227 | 0.0 |
| 85 | 1997 | 1998 | SN | 2 | 57.614 | 58.395 | 0.0 | 0.003 | 1.985 | 74.762 | 1234.104 | 1279.856 | 0.0 | -93.199 | -92.227 | 0.0 |
| 86 | 1998 | 1999 | NS | 1 | 57.579 | 58.258 | 0.0 | 0.003 | 1.98 | 74.759 | 1205.352 | 1276.88 | 10.874 | -92.97 | -92.007 | 0.0 |
| 87 | 1998 | 1999 | SN | 1 | 57.68 | 58.385 | 0.0 | 0.003 | 10.291 | 76.809 | 1233.64 | 1280.056 | 0.019 | -93.114 | -92.23 | 0.0 |
| 88 | 1998 | 1999 | NS | 1 | 57.579 | 58.258 | 0.0 | 0.003 | 1.98 | 0.135 | 1205.352 | 1267.872 | 12.489 | -92.97 | -92.007 | 0.0 |

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

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

| Outer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------------|-----------|----------|------|---------|----------|------------|---------|-----------|------------|---------|---------|------------|---------|----------|------------|-------|----------|------------|-------|-----------|------------|------|---------|------------|------|---------|------------|
| SNR | | | | | | | | | | | | | | | | Kp | | | | | | | | | | | | |
| Sea Aft | | | Sea Fore | | | Land Aft | | | Land Fore | | | Sea Aft | | | Sea Fore | | | Land Aft | | | Land Fore | | | | | | | |
| SrNo | Start Orbit | End Orbit | Dir. | Ver. | Min | Max | BadOcc (%) | Min | Max | BadOcc (%) | Min | Max | BadOcc (%) | Min | Max | BadOcc (%) | Min | Max | BadOcc (%) | Min | Max | BadOcc (%) | Min | Max | BadOcc (%) | Min | Max | BadOcc (%) |
| 1 | 1970 | 1971 | NS | 2 | -32.071 | 21.332 | 0.0 | -34.857 | 22.438 | 0.001 | 0.673 | 23.034 | 0.09 | 0.378 | 24.225 | 0.197 | 0.08 | 107.727 | 1.178 | 0.08 | 204.559 | 1.219 | 0.08 | 0.129 | 0.0 | 0.08 | 0.133 | 0.0 |
| 2 | 1970 | 1971 | SN | 1 | -34.518 | 18.649 | 0.0 | -34.881 | 19.124 | 0.0 | -25.301 | 22.192 | 0.004 | -11.752 | 21.646 | 0.0 | 0.08 | 189.217 | 3.746 | 0.08 | 205.712 | 3.307 | 0.08 | 22.715 | 0.056 | 0.08 | 1.063 | 0.002 |
| 3 | 1971 | 1972 | NS | 2 | -34.868 | 21.272 | 0.0 | -34.376 | 22.087 | 0.003 | -18.622 | 22.596 | 0.012 | -8.917 | 23.171 | 0.042 | 0.08 | 205.05 | 1.655 | 0.08 | 183.1 | 1.81 | 0.08 | 4.928 | 0.003 | 0.08 | 0.584 | 0.0 |
| 4 | 1971 | 1972 | SN | 1 | -34.722 | 18.193 | 0.0 | -34.906 | 18.88 | 0.0 | -0.351 | 22.225 | 0.002 | 2.356 | 20.828 | 0.0 | 0.081 | 198.284 | 5.417 | 0.08 | 206.847 | 5.023 | 0.08 | 0.143 | 0.0 | 0.08 | 0.112 | 0.0 |
| 5 | 1972 | 1973 | SN | 1 | -34.456 | 18.3 | 0.0 | -34.634 | 18.898 | 0.0 | -0.719 | 22.235 | 0.003 | 0.949 | 20.616 | 0.0 | 0.081 | 186.529 | 1.9 | 0.08 | 194.324 | 1.636 | 0.08 | 0.149 | 0.0 | 0.08 | 0.126 | 0.0 |
| 6 | 1972 | 1973 | NS | 1 | -34.786 | 19.847 | 0.0 | -34.911 | 20.121 | 0.0 | -13.179 | 22.576 | 0.023 | -27.801 | 22.727 | 0.052 | 0.08 | 201.198 | 3.924 | 0.08 | 207.073 | 4.094 | 0.08 | 1.452 | 0.002 | 0.08 | 40.332 | 0.075 |
| 7 | 1973 | 1974 | SN | 1 | -34.055 | 17.916 | 0.0 | -34.66 | 16.92 | 0.0 | 0.215 | 21.366 | 0.0 | 1.492 | 21.426 | 0.0 | 0.081 | 170.109 | 1.868 | 0.081 | 195.527 | 1.648 | 0.08 | 0.135 | 0.0 | 0.08 | 0.12 | 0.0 |
| 8 | 1973 | 1974 | NS | 1 | -34.854 | 19.825 | 0.0 | -34.734 | 20.314 | 0.0 | -25.94 | 21.691 | 0.0 | -33.559 | 22.71 | 0.007 | 0.08 | 204.372 | 2.672 | 0.08 | 198.836 | 3.182 | 0.08 | 26.304 | 0.087 | 0.08 | 151.736 | 0.058 |
| 9 | 1974 | 1975 | NS | 1 | -34.492 | 19.151 | 0.0 | -34.738 | 18.838 | 0.0 | -22.408 | 22.246 | 0.004 | -29.891 | 22.545 | 0.023 | 0.08 | 188.064 | 2.66 | 0.08 | 198.996 | 2.981 | 0.08 | 11.698 | 0.035 | 0.08 | 65.225 | 0.022 |
| 10 | 1974 | 1975 | SN | 1 | -34.6 | 15.911 | 0.0 | -34.956 | 18.871 | 0.0 | 1.174 | 21.898 | 0.0 | 2.5 | 22.336 | 0.02 | 0.081 | 192.786 | 2.222 | 0.08 | 209.265 | 2.186 | 0.08 | 0.123 | 0.0 | 0.08 | 0.111 | 0.0 |
| 11 | 1975 | 1976 | SN | 1 | -34.963 | 15.012 | 0.0 | -34.546 | 15.06 | 0.0 | 0.26 | 22.042 | 0.005 | 8.119 | 20.855 | 0.0 | 0.081 | 209.602 | 2.747 | 0.081 | 190.426 | 2.431 | 0.08 | 0.134 | 0.0 | 0.08 | 0.088 | 0.0 |
| 12 | 1975 | 1976 | NS | 1 | -34.67 | 18.821 | 0.0 | -34.898 | 19.059 | 0.0 | -19.9 | 21.443 | 0.0 | -21.158 | 22.699 | 0.011 | 0.08 | 195.924 | 2.077 | 0.08 | 206.536 | 2.125 | 0.08 | 6.593 | 0.017 | 0.08 | 8.786 | 0.027 |
| 13 | 1976 | 1977 | NS | 1 | -33.8 | 18.7 | 0.0 | -34.651 | 19.293 | 0.0 | -16.659 | 22.226 | 0.005 | -20.579 | 22.569 | 0.024 | 0.08 | 160.356 | 1.194 | 0.08 | 195.06 | 1.272 | 0.08 | 3.158 | 0.025 | 0.08 | 7.698 | 0.049 |
| 14 | 1976 | 1977 | SN | 1 | -34.95 | 19.851 | 0.0 | -34.98 | 19.737 | 0.0 | 1.075 | 23.092 | 0.103 | 3.125 | 23.621 | 0.212 | 0.08 | 208.977 | 2.752 | 0.08 | 210.461 | 2.689 | 0.08 | 0.124 | 0.0 | 0.08 | 0.107 | 0.0 |
| 15 | 1977 | 1978 | NS | 2 | -33.602 | 19.322 | 0.0 | -33.639 | 19.358 | 0.0 | -2.674 | 22.766 | 0.069 | -0.096 | 23.174 | 0.185 | 0.08 | 153.249 | 0.579 | 0.08 | 154.554 | 0.547 | 0.08 | 0.192 | 0.0 | 0.08 | 0.139 | 0.0 |
| 16 | 1977 | 1978 | NS | 3 | -33.602 | 19.322 | 0.0 | -33.639 | 19.358 | 0.0 | -2.674 | 22.766 | 0.069 | -0.096 | 23.174 | 0.185 | 0.08 | 153.249 | 0.579 | 0.08 | 154.554 | 0.547 | 0.08 | 0.192 | 0.0 | 0.08 | 0.139 | 0.0 |
| 17 | 1977 | 1978 | SN | 1 | -33.543 | 19.96 | 0.0 | -32.392 | 20.15 | 0.0 | -23.246 | 23.015 | 0.092 | -9.543 | 23.467 | 0.276 | 0.08 | 151.174 | 2.63 | 0.08 | 116.0 | 2.274 | 0.08 | 14.172 | 0.003 | 0.08 | 0.665 | 0.0 |
| 18 | 1977 | 1978 | NS | 1 | -33.602 | 19.322 | 0.0 | -33.639 | 19.358 | 0.0 | -2.674 | 22.766 | 0.069 | -0.096 | 23.174 | 0.185 | 0.08 | 153.249 | 0.579 | 0.08 | 154.554 | 0.547 | 0.08 | 0.192 | 0.0 | 0.08 | 0.139 | 0.0 |
| 19 | 1978 | 1979 | NS | 1 | -34.45 | 18.065 | 0.0 | -34.786 | 18.145 | 0.0 | 0.667 | 23.244 | 0.236 | -5.031 | 23.895 | 0.966 | 0.081 | 186.247 | 1.477 | 0.081 | 201.231 | 1.374 | 0.08 | 0.129 | 0.0 | 0.08 | 0.279 | 0.0 |
| 20 | 1978 | 1979 | SN | 1 | -34.506 | 21.55 | 0.0 | -34.784 | 21.858 | 0.0 | -32.586 | 22.772 | 0.045 | -15.959 | 23.276 | 0.26 | 0.08 | 188.652 | 1.47 | 0.08 | 201.13 | 1.232 | 0.08 | 121.268 | 0.119 | 0.08 | 2.697 | 0.005 |
| 21 | 1979 | 1980 | NS | 2 | -34.663 | 18.001 | 0.0 | -34.42 | 17.373 | 0.0 | -1.737 | 22.808 | 0.199 | -4.186 | 23.459 | 0.829 | 0.081 | 195.633 | 3.477 | 0.081 | 185.017 | 3.385 | 0.08 | 0.169 | 0.0 | 0.08 | 0.242 | 0.0 |
| 22 | 1979 | 1980 | NS | 1 | -34.663 | 18.001 | 0.0 | -34.42 | 17.373 | 0.0 | -1.737 | 22.808 | 0.199 | -4.186 | 23.459 | 0.829 | 0.081 | 195.633 | 3.477 | 0.081 | 185.017 | 3.385 | 0.08 | 0.169 | 0.0 | 0.08 | 0.242 | 0.0 |
| 23 | 1979 | 1980 | SN | 1 | -34.55 | 21.213 | 0.0 | -34.934 | 22.59 | 0.002 | -8.306 | 22.658 | 0.052 | -4.582 | 23.334 | 0.199 | 0.08 | 190.646 | 4.072 | 0.08 | 208.183 | 3.84 | 0.08 | 0.516 | 0.0 | 0.08 | 0.258 | 0.0 |
| 24 | 1980 | 1981 | NS | 2 | -34.984 | 18.176 | 0.0 | -34.877 | 17.669 | 0.0 | 0.797 | 23.151 | 0.114 | 0.622 | 23.693 | 0.444 | 0.081 | 210.623 | 2.755 | 0.081 | 205.458 | 2.709 | 0.08 | 0.128 | 0.0 | 0.08 | 0.13 | 0.0 |
| 25 | 1980 | 1981 | SN | 1 | -33.964 | 20.326 | 0.0 | -34.662 | 21.019 | 0.0 | -34.911 | 22.938 | 0.06 | -23.115 | 23.468 | 0.229 | 0.08 | 166.566 | 4.818 | 0.08 | 195.594 | 3.726 | 0.08 | 207.097 | 0.128 | 0.08 | 13.754 | 0.146 |
| 26 | 1981 | 1982 | SN | 1 | -34.301 | 19.475 | 0.0 | -34.521 | 19.602 | 0.0 | -24.459 | 22.737 | 0.042 | -22.213 | 23.594 | 0.176 | 0.08 | 179.972 | 2.036 | 0.08 | 189.338 | 1.824 | 0.08 | 18.724 | 0.022 | 0.08 | 11.188 | 0.044 |
| 27 | 1981 | 1982 | NS | 1 | -34.515 | 17.877 | 0.0 | -34.73 | 17.645 | 0.0 | 5.119 | 22.944 | 0.276 | 5.604 | 23.227 | 0.515 | 0.081 | 189.083 | 1.629 | 0.081 | 198.646 | 1.736 | 0.08 | 0.096 | 0.0 | 0.08 | 0.095 | 0.0 |
| 28 | 1982 | 1983 | SN | 1 | -34.609 | 19.247 | 0.0 | -34.959 | 19.898 | 0.0 | -22.594 | 22.633 | 0.161 | -25.395 | 23.035 | 0.293 | 0.08 | 193.197 | 2.695 | 0.08 | 209.42 | 2.04 | 0.08 | 12.206 | 0.077 | 0.08 | 23.205 | 0.082 |
| 29 | 1982 | 1983 | NS | 1 | -34.652 | 19.049 | 0.0 | -34.809 | 19.452 | 0.0 | 3.127 | 22.849 | 0.213 | 3.07 | 23.095 | 0.538 | 0.08 | 195.129 | 1.871 | 0.08 | 202.304 | 2.01 | 0.08 | 0.107 | 0.0 | 0.08 | 0.107 | 0.0 |
| 30 | 1983 | 1984 | SN | 1 | -34.881 | 18.68 | 0.0 | -34.651 | 19.336 | 0.0 | 1.911 | 22.896 | 0.362 | 2.67 | 23.623 | 1.721 | 0.08 | 205.696 | 2.576 | 0.08 | 195.08 | 2.626 | 0.08 | 0.116 | 0.0 | 0.08 | 0.11 | 0.0 |
| 31 | 1983 | 1984 | NS | 1 | -34.507 | 21.285 | 0.0 | -34.855 | 21.765 | 0.0 | 2.298 | 22.845 | 0.198 | 2.293 | 23.846 | 0.652 | 0.08 | 188.73 | 1.828 | 0.08 | 204.457 | 1.491 | 0.08 | 0.113 | 0.0 | 0.08 | 0.113 | 0.0 |
| 32 | 1984 | 1985 | SN | 2 | -34.9 | 18.847 | 0.0 | -33.577 | 19.199 | 0.0 | 2.161 | 22.989 | 0.099 | 3.442 | 23.346 | 0.217 | 0.08 | 206.606 | 1.984 | 0.08 | 152.339 | 1.652 | 0.08 | 0.114 | 0.0 | 0.08 | 0.105 | 0.0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|------|----|---|---------|--------|-----|---------|--------|-------|---------|--------|-------|---------|--------|-------|-------|---------|-------|-------|---------|-------|------|--------|-------|------|--------|-------|
| 33 | 1984 | 1985 | NS | 1 | -34.144 | 21.833 | 0.0 | -34.362 | 21.739 | 0.0 | 2.415 | 23.037 | 0.311 | 0.259 | 23.676 | 0.549 | 0.08 | 173.562 | 2.211 | 0.08 | 182.527 | 2.234 | 0.08 | 0.112 | 0.0 | 0.08 | 0.134 | 0.0 |
| 34 | 1984 | 1985 | SN | 1 | -34.9 | 18.847 | 0.0 | -33.577 | 19.199 | 0.0 | 2.161 | 22.989 | 0.099 | 3.442 | 23.346 | 0.217 | 0.08 | 206.606 | 1.984 | 0.08 | 152.339 | 1.652 | 0.08 | 0.114 | 0.0 | 0.08 | 0.105 | 0.0 |
| 35 | 1985 | 1986 | SN | 3 | -34.326 | 18.696 | 0.0 | -34.898 | 19.073 | 0.0 | -2.993 | 22.095 | 0.002 | -2.07 | 21.587 | 0.0 | 0.08 | 181.034 | 5.871 | 0.08 | 206.53 | 4.686 | 0.08 | 0.201 | 0.0 | 0.08 | 0.177 | 0.0 |
| 36 | 1985 | 1986 | NS | 4 | -34.673 | 21.695 | 0.0 | -32.759 | 22.32 | 0.003 | 1.617 | 23.615 | 0.013 | 1.529 | 22.78 | 0.066 | 0.08 | 196.031 | 0.306 | 0.08 | 126.214 | 0.343 | 0.08 | 0.119 | 0.0 | 0.08 | 0.12 | 0.0 |
| 37 | 1985 | 1986 | NS | 2 | -34.673 | 21.695 | 0.0 | -32.759 | 22.32 | 0.003 | 1.617 | 23.615 | 0.013 | 1.529 | 22.78 | 0.066 | 0.08 | 196.031 | 0.306 | 0.08 | 126.214 | 0.343 | 0.08 | 0.119 | 0.0 | 0.08 | 0.12 | 0.0 |
| 38 | 1985 | 1986 | SN | 1 | -34.326 | 18.696 | 0.0 | -34.898 | 19.073 | 0.0 | -2.993 | 22.095 | 0.002 | -2.07 | 21.587 | 0.0 | 0.08 | 181.034 | 5.871 | 0.08 | 206.53 | 4.686 | 0.08 | 0.201 | 0.0 | 0.08 | 0.177 | 0.0 |
| 39 | 1986 | 1987 | SN | 1 | -34.95 | 18.43 | 0.0 | -34.499 | 18.946 | 0.0 | -0.304 | 22.084 | 0.005 | 0.31 | 21.709 | 0.0 | 0.081 | 208.934 | 5.409 | 0.08 | 188.391 | 4.829 | 0.08 | 0.142 | 0.0 | 0.08 | 0.134 | 0.0 |
| 40 | 1986 | 1987 | SN | 2 | -34.95 | 18.43 | 0.0 | -34.499 | 18.946 | 0.0 | -0.304 | 22.084 | 0.005 | 0.31 | 21.709 | 0.0 | 0.081 | 208.934 | 5.409 | 0.08 | 188.391 | 4.829 | 0.08 | 0.142 | 0.0 | 0.08 | 0.134 | 0.0 |
| 41 | 1986 | 1987 | NS | 1 | -34.349 | 20.837 | 0.0 | -33.952 | 20.792 | 0.0 | -9.828 | 22.658 | 0.005 | -8.123 | 23.038 | 0.033 | 0.08 | 182.019 | 1.857 | 0.08 | 166.077 | 1.897 | 0.08 | 0.706 | 0.0 | 0.08 | 0.498 | 0.0 |
| 42 | 1986 | 1987 | NS | 2 | -34.349 | 20.837 | 0.0 | -33.952 | 20.792 | 0.0 | -9.828 | 22.658 | 0.005 | -8.123 | 23.038 | 0.033 | 0.08 | 182.019 | 1.857 | 0.08 | 166.077 | 1.897 | 0.08 | 0.706 | 0.0 | 0.08 | 0.498 | 0.0 |
| 43 | 1987 | 1988 | SN | 1 | -34.948 | 18.555 | 0.0 | -34.362 | 17.642 | 0.0 | 1.53 | 21.717 | 0.0 | 1.349 | 20.401 | 0.0 | 0.081 | 208.906 | 2.108 | 0.081 | 182.499 | 1.876 | 0.08 | 0.12 | 0.0 | 0.08 | 0.122 | 0.0 |
| 44 | 1987 | 1988 | NS | 1 | -34.962 | 20.877 | 0.0 | -34.9 | 20.66 | 0.0 | -10.679 | 21.505 | 0.0 | -18.335 | 22.186 | 0.005 | 0.08 | 209.569 | 5.09 | 0.08 | 206.622 | 5.499 | 0.08 | 0.844 | 0.0 | 0.08 | 4.617 | 0.032 |
| 45 | 1987 | 1988 | SN | 2 | -34.948 | 18.555 | 0.0 | -34.362 | 17.642 | 0.0 | 1.53 | 21.717 | 0.0 | 1.349 | 20.401 | 0.0 | 0.081 | 208.906 | 2.108 | 0.081 | 182.499 | 1.876 | 0.08 | 0.12 | 0.0 | 0.08 | 0.122 | 0.0 |
| 46 | 1988 | 1989 | SN | 1 | -35.001 | 15.664 | 0.0 | -34.838 | 18.184 | 0.0 | 0.78 | 22.238 | 0.011 | 1.391 | 22.39 | 0.044 | 0.081 | 211.389 | 2.159 | 0.081 | 203.656 | 2.015 | 0.08 | 0.128 | 0.0 | 0.08 | 0.121 | 0.0 |
| 47 | 1988 | 1989 | NS | 1 | -34.826 | 20.199 | 0.0 | -34.991 | 20.407 | 0.0 | -29.068 | 22.303 | 0.003 | -25.87 | 22.367 | 0.005 | 0.08 | 205.885 | 5.104 | 0.08 | 210.956 | 5.446 | 0.08 | 53.991 | 0.073 | 0.08 | 25.882 | 0.046 |
| 48 | 1988 | 1989 | NS | 2 | -34.826 | 20.199 | 0.0 | -34.991 | 20.407 | 0.0 | -29.068 | 22.303 | 0.003 | -25.87 | 22.367 | 0.005 | 0.08 | 205.885 | 5.104 | 0.08 | 210.956 | 5.446 | 0.08 | 53.991 | 0.073 | 0.08 | 25.882 | 0.046 |
| 49 | 1988 | 1989 | SN | 2 | -35.001 | 15.664 | 0.0 | -34.838 | 18.184 | 0.0 | 0.78 | 22.238 | 0.011 | 1.391 | 22.39 | 0.044 | 0.081 | 211.389 | 2.159 | 0.081 | 203.656 | 2.015 | 0.08 | 0.128 | 0.0 | 0.08 | 0.121 | 0.0 |
| 50 | 1989 | 1990 | SN | 1 | -34.074 | 15.237 | 0.0 | -34.778 | 19.406 | 0.0 | 1.049 | 22.005 | 0.005 | 1.815 | 22.474 | 0.024 | 0.081 | 170.819 | 2.8 | 0.08 | 200.87 | 2.413 | 0.08 | 0.125 | 0.0 | 0.08 | 0.117 | 0.0 |
| 51 | 1989 | 1990 | NS | 1 | -34.847 | 19.24 | 0.0 | -34.42 | 19.042 | 0.0 | -23.893 | 22.327 | 0.003 | -26.616 | 22.351 | 0.008 | 0.08 | 204.135 | 4.418 | 0.08 | 184.967 | 4.486 | 0.08 | 16.439 | 0.069 | 0.08 | 30.715 | 0.05 |
| 52 | 1989 | 1990 | NS | 2 | -34.847 | 19.24 | 0.0 | -34.42 | 19.042 | 0.0 | -23.893 | 22.327 | 0.003 | -26.616 | 22.351 | 0.008 | 0.08 | 204.135 | 4.418 | 0.08 | 184.967 | 4.486 | 0.08 | 16.439 | 0.069 | 0.08 | 30.715 | 0.05 |
| 53 | 1989 | 1990 | SN | 2 | -34.074 | 15.237 | 0.0 | -34.778 | 19.406 | 0.0 | 1.049 | 22.005 | 0.005 | 1.815 | 22.474 | 0.024 | 0.081 | 170.819 | 2.8 | 0.08 | 200.87 | 2.413 | 0.08 | 0.125 | 0.0 | 0.08 | 0.117 | 0.0 |
| 54 | 1990 | 1991 | SN | 1 | -34.951 | 18.968 | 0.0 | -34.789 | 16.607 | 0.0 | 0.542 | 22.362 | 0.034 | 3.623 | 22.432 | 0.033 | 0.08 | 209.039 | 3.859 | 0.081 | 201.375 | 3.188 | 0.08 | 0.131 | 0.0 | 0.08 | 0.104 | 0.0 |
| 55 | 1990 | 1991 | SN | 2 | -34.951 | 18.968 | 0.0 | -34.789 | 16.607 | 0.0 | 0.542 | 22.362 | 0.034 | 3.623 | 22.432 | 0.033 | 0.08 | 209.039 | 3.859 | 0.081 | 201.375 | 3.188 | 0.08 | 0.131 | 0.0 | 0.08 | 0.104 | 0.0 |
| 56 | 1990 | 1991 | NS | 1 | -34.82 | 18.88 | 0.0 | -34.094 | 19.333 | 0.0 | -20.18 | 21.756 | 0.0 | -19.382 | 22.843 | 0.015 | 0.08 | 202.813 | 2.305 | 0.08 | 171.594 | 2.489 | 0.08 | 7.027 | 0.07 | 0.08 | 5.858 | 0.015 |
| 57 | 1990 | 1991 | NS | 2 | -34.82 | 18.88 | 0.0 | -34.094 | 19.333 | 0.0 | -20.18 | 21.756 | 0.0 | -19.382 | 22.843 | 0.015 | 0.08 | 202.813 | 2.305 | 0.08 | 171.594 | 2.489 | 0.08 | 7.027 | 0.07 | 0.08 | 5.858 | 0.015 |
| 58 | 1991 | 1992 | NS | 2 | -34.967 | 18.645 | 0.0 | -34.936 | 19.397 | 0.0 | 2.882 | 22.885 | 0.215 | 0.823 | 22.854 | 0.348 | 0.08 | 209.746 | 1.255 | 0.08 | 208.278 | 1.22 | 0.08 | 0.109 | 0.0 | 0.08 | 0.127 | 0.0 |
| 59 | 1991 | 1992 | SN | 1 | -34.996 | 19.178 | 0.0 | -34.812 | 19.123 | 0.0 | 0.966 | 23.058 | 0.121 | 1.481 | 23.323 | 0.304 | 0.08 | 211.173 | 2.382 | 0.08 | 202.458 | 1.833 | 0.08 | 0.126 | 0.0 | 0.08 | 0.12 | 0.0 |
| 60 | 1991 | 1992 | NS | 1 | -34.967 | 18.645 | 0.0 | -34.936 | 19.397 | 0.0 | 2.882 | 22.885 | 0.215 | 0.823 | 22.854 | 0.348 | 0.08 | 209.746 | 1.255 | 0.08 | 208.278 | 1.22 | 0.08 | 0.109 | 0.0 | 0.08 | 0.127 | 0.0 |
| 61 | 1991 | 1992 | SN | 2 | -34.996 | 19.178 | 0.0 | -34.812 | 19.123 | 0.0 | 0.966 | 23.058 | 0.121 | 1.481 | 23.323 | 0.304 | 0.08 | 211.173 | 2.382 | 0.08 | 202.458 | 1.833 | 0.08 | 0.126 | 0.0 | 0.08 | 0.12 | 0.0 |
| 62 | 1992 | 1993 | SN | 1 | -33.444 | 18.499 | 0.0 | -33.961 | 19.765 | 0.0 | -10.171 | 23.45 | 0.037 | -10.032 | 23.535 | 0.321 | 0.081 | 147.779 | 1.945 | 0.08 | 166.438 | 2.028 | 0.08 | 0.758 | 0.0 | 0.08 | 0.736 | 0.0 |
| 63 | 1992 | 1993 | SN | 2 | -33.444 | 18.499 | 0.0 | -33.961 | 19.765 | 0.0 | -10.171 | 23.45 | 0.037 | -10.032 | 23.535 | 0.321 | 0.081 | 147.779 | 1.945 | 0.08 | 166.438 | 2.028 | 0.08 | 0.758 | 0.0 | 0.08 | 0.736 | 0.0 |
| 64 | 1992 | 1993 | NS | 2 | -33.915 | 18.131 | 0.0 | -34.767 | 18.126 | 0.0 | -1.083 | 22.939 | 0.214 | 0.868 | 23.382 | 0.629 | 0.081 | 164.652 | 1.472 | 0.081 | 200.381 | 1.631 | 0.08 | 0.156 | 0.0 | 0.08 | 0.127 | 0.0 |
| 65 | 1992 | 1993 | NS | 1 | -33.915 | 18.131 | 0.0 | -34.767 | 18.126 | 0.0 | -1.083 | 22.939 | 0.214 | 0.868 | 23.382 | 0.629 | 0.081 | 164.652 | 1.472 | 0.081 | 200.381 | 1.631 | 0.08 | 0.156 | 0.0 | 0.08 | 0.127 | 0.0 |
| 66 | 1993 | 1994 | SN | 1 | -34.187 | 21.247 | 0.0 | -34.133 | 22.033 | 0.001 | -22.843 | 22.768 | 0.053 | -13.09 | 23.564 | 0.221 | 0.08 | 175.287 | 1.637 | 0.08 | 173.167 | 1.51 | 0.08 | 12.922 | 0.045 | 0.08 | 1.424 | 0.002 |
| 67 | 1993 | 1994 | SN | 2 | -34.187 | 21.247 | 0.0 | -34.133 | 22.033 | 0.001 | -22.843 | 22.768 | 0.053 | -13.09 | 23.564 | 0.221 | 0.08 | 175.287 | 1.637 | 0.08 | 173.167 | 1.51 | 0.08 | 12.922 | 0.045 | 0.08 | 1.424 | 0.002 |
| 68 | 1993 | 1994 | NS | 1 | -34.711 | 18.096 | 0.0 | -34.806 | 19.157 | 0.0 | -3.066 | 23.281 | 0.317 | 0.48 | 23.488 | 1.116 | 0.081 | 197.778 | 2.749 | 0.08 | 202.182 | 2.802 | 0.08 | 0.203 | 0.0 | 0.08 | 0.131 | 0.0 |
| 69 | 1993 | 1994 | NS | 2 | -34.711 | 18.096 | 0.0 | -34.806 | 19.157 | 0.0 | -3.066 | 23.281 | 0.317 | 0.48 | 23.488 | 1.116 | 0.081 | 197.778 | 2.749 | 0.08 | 202.182 | 2.802 | 0.08 | 0.203 | 0.0 | 0.08 | 0.131 | 0.0 |

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

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|  Normal |  Deviations |
|  Alarming |  High Errors |

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|----|------|------|----|---|---------|--------|-----|---------|--------|-----|---------|--------|-------|---------|--------|-------|-------|---------|-------|-------|---------|-------|------|--------|-------|------|--------|-------|
| 70 | 1994 | 1995 | NS | 1 | -34.637 | 18.321 | 0.0 | -34.919 | 17.973 | 0.0 | 0.399 | 23.41 | 0.1 | 1.97 | 23.637 | 0.552 | 0.081 | 194.435 | 4.464 | 0.081 | 207.455 | 4.078 | 0.08 | 0.133 | 0.0 | 0.08 | 0.116 | 0.0 |
| 71 | 1994 | 1995 | SN | 1 | -34.895 | 20.656 | 0.0 | -34.801 | 21.793 | 0.0 | -25.16 | 23.109 | 0.059 | -19.942 | 23.263 | 0.262 | 0.08 | 206.35 | 5.356 | 0.08 | 201.946 | 5.369 | 0.08 | 21.987 | 0.054 | 0.08 | 6.655 | 0.048 |
| 72 | 1994 | 1995 | SN | 2 | -34.895 | 20.656 | 0.0 | -34.801 | 21.793 | 0.0 | -25.16 | 23.109 | 0.059 | -19.942 | 23.263 | 0.262 | 0.08 | 206.35 | 5.356 | 0.08 | 201.946 | 5.369 | 0.08 | 21.987 | 0.054 | 0.08 | 6.655 | 0.048 |
| 73 | 1994 | 1995 | NS | 2 | -34.637 | 18.321 | 0.0 | -34.919 | 17.973 | 0.0 | 0.399 | 23.41 | 0.1 | 1.97 | 23.637 | 0.552 | 0.081 | 194.435 | 4.464 | 0.081 | 207.455 | 4.078 | 0.08 | 0.133 | 0.0 | 0.08 | 0.116 | 0.0 |
| 74 | 1995 | 1996 | NS | 1 | -34.953 | 17.888 | 0.0 | -34.549 | 17.978 | 0.0 | 2.166 | 22.826 | 0.17 | 1.933 | 23.307 | 0.463 | 0.081 | 209.104 | 3.911 | 0.081 | 190.54 | 4.456 | 0.08 | 0.114 | 0.0 | 0.08 | 0.116 | 0.0 |
| 75 | 1995 | 1996 | SN | 2 | -32.969 | 19.729 | 0.0 | -34.864 | 19.851 | 0.0 | -30.254 | 22.709 | 0.047 | -25.16 | 23.4 | 0.169 | 0.08 | 132.453 | 3.294 | 0.08 | 204.899 | 2.797 | 0.08 | 70.932 | 0.016 | 0.08 | 21.986 | 0.019 |
| 76 | 1995 | 1996 | SN | 1 | -32.969 | 19.729 | 0.0 | -34.864 | 19.851 | 0.0 | -30.254 | 22.709 | 0.047 | -25.16 | 23.4 | 0.169 | 0.08 | 132.453 | 3.294 | 0.08 | 204.899 | 2.797 | 0.08 | 70.932 | 0.016 | 0.08 | 21.986 | 0.019 |
| 77 | 1995 | 1996 | NS | 2 | -34.953 | 17.888 | 0.0 | -34.549 | 17.978 | 0.0 | 2.166 | 22.826 | 0.17 | 1.933 | 23.307 | 0.463 | 0.081 | 209.104 | 3.911 | 0.081 | 190.54 | 4.456 | 0.08 | 0.114 | 0.0 | 0.08 | 0.116 | 0.0 |
| 78 | 1996 | 1997 | SN | 2 | -34.405 | 19.565 | 0.0 | -34.871 | 20.382 | 0.0 | -18.231 | 23.267 | 0.095 | -27.349 | 24.017 | 0.236 | 0.08 | 184.363 | 3.615 | 0.08 | 205.197 | 3.892 | 0.08 | 4.509 | 0.017 | 0.08 | 36.359 | 0.031 |
| 79 | 1996 | 1997 | NS | 1 | -34.957 | 19.451 | 0.0 | -33.642 | 19.531 | 0.0 | 5.607 | 22.843 | 0.237 | 6.038 | 23.196 | 0.44 | 0.08 | 209.349 | 1.637 | 0.08 | 154.658 | 1.944 | 0.08 | 0.095 | 0.0 | 0.08 | 0.093 | 0.0 |
| 80 | 1996 | 1997 | SN | 1 | -34.405 | 19.565 | 0.0 | -34.871 | 20.382 | 0.0 | -18.231 | 23.267 | 0.095 | -27.349 | 24.017 | 0.236 | 0.08 | 184.363 | 3.615 | 0.08 | 205.197 | 3.892 | 0.08 | 4.509 | 0.017 | 0.08 | 36.359 | 0.031 |
| 81 | 1996 | 1997 | NS | 2 | -34.957 | 19.451 | 0.0 | -33.642 | 19.531 | 0.0 | 5.607 | 22.843 | 0.237 | 6.038 | 23.196 | 0.44 | 0.08 | 209.349 | 1.637 | 0.08 | 154.658 | 1.944 | 0.08 | 0.095 | 0.0 | 0.08 | 0.093 | 0.0 |
| 82 | 1997 | 1998 | NS | 2 | -34.578 | 19.466 | 0.0 | -34.662 | 19.763 | 0.0 | 0.505 | 23.156 | 0.169 | 1.199 | 23.015 | 0.608 | 0.08 | 191.848 | 2.566 | 0.08 | 195.563 | 2.509 | 0.08 | 0.131 | 0.0 | 0.08 | 0.123 | 0.0 |
| 83 | 1997 | 1998 | NS | 1 | -34.578 | 19.466 | 0.0 | -34.662 | 19.763 | 0.0 | 0.505 | 23.156 | 0.169 | 1.199 | 23.015 | 0.608 | 0.08 | 191.848 | 2.566 | 0.08 | 195.563 | 2.509 | 0.08 | 0.131 | 0.0 | 0.08 | 0.123 | 0.0 |
| 84 | 1997 | 1998 | SN | 1 | -34.47 | 19.708 | 0.0 | -34.592 | 20.695 | 0.0 | -7.343 | 23.063 | 0.284 | -7.605 | 23.221 | 0.64 | 0.08 | 187.117 | 2.029 | 0.08 | 192.436 | 1.985 | 0.08 | 0.427 | 0.0 | 0.08 | 0.449 | 0.0 |
| 85 | 1997 | 1998 | SN | 2 | -34.47 | 19.708 | 0.0 | -34.592 | 20.695 | 0.0 | -7.343 | 23.063 | 0.284 | -7.605 | 23.221 | 0.64 | 0.08 | 187.117 | 2.029 | 0.08 | 192.436 | 1.985 | 0.08 | 0.427 | 0.0 | 0.08 | 0.449 | 0.0 |
| 86 | 1998 | 1999 | NS | 1 | -34.977 | 21.32 | 0.0 | -34.416 | 21.163 | 0.0 | 1.461 | 23.222 | 0.298 | 2.428 | 23.917 | 0.615 | 0.08 | 210.31 | 2.209 | 0.08 | 184.824 | 2.056 | 0.08 | 0.12 | 0.0 | 0.08 | 0.112 | 0.0 |
| 87 | 1998 | 1999 | SN | 1 | -34.492 | 17.65 | 0.0 | -34.851 | 18.168 | 0.0 | 1.614 | 22.908 | 0.147 | 2.695 | 23.677 | 0.745 | 0.081 | 188.045 | 1.581 | 0.081 | 204.264 | 1.148 | 0.08 | 0.119 | 0.0 | 0.08 | 0.11 | 0.0 |
| 88 | 1998 | 1999 | NS | 1 | -34.977 | 18.861 | 0.0 | -34.416 | 21.163 | 0.0 | 3.959 | 21.68 | 0.0 | 2.428 | 20.885 | 0.0 | 0.08 | 210.31 | 2.22 | 0.08 | 184.824 | 2.061 | 0.08 | 0.102 | 0.0 | 0.08 | 0.112 | 0.0 |

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

 Normal

 Deviations

 Alarming

 High Errors