Data: 2017-05-11  
Firma:  
  
  
  
**DZIENNIK OBSERWACYJNY Z POMIARÓW RTK**  
Wykorzystanie systemu ASG-EUPOS: TAK  
Nazwa użytkownika dostępowego do systemu ASG-EUPOS:   
Zapis surowych obserwacji: NIE  
Typ wykorzystanych poprawek: RTK sieciowe  
Wykorzystywany strumień poprawek systemu ASG-EUPOS: NTRIP RTN\_VRS\_3\_1  
  
  
**Nazwa projektu: KUNIC\_POM**  
  
Data: 14-03-2017  
  
Układ współrzędnych: POLAND/ETRS89 CS2000/Zone 8  
  
**Odbiornik GPS**  
Typ odbiornika: South  
Numer seryjny odbiornika: 43101388  
Typ anteny: S82T NONE  
Przesunięcie L1: 0.088  
Przesunięcie L2: 0.092  
  
Format poprawek: RTCM V3.0  
Strumień poprawek: NTRIP RTN\_VRS\_3\_1  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3691231.912 | 1544172.027 | 4950618.723 |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 1 | 12:38:53 | Fix | 4923.983 | -7650.566 | -1299.715 | 5677482.059 | 8400323.016 | 178.036 | 4 | 7 | 3.374 | 0.010 | 0.015 |  |

Wysokość anteny: 2.240  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 2 | 12:39:35 | Fix | 4921.685 | -7653.321 | -1297.147 | 5677486.178 | 8400321.434 | 178.048 | 4 | 13 | 1.865 | 0.009 | 0.015 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 3 | 12:41:01 | Fix | 4916.902 | -7663.001 | -1290.636 | 5677501.542 | 8400314.069 | 178.030 | 4 | 9 | 2.745 | 0.008 | 0.016 |  |
| 4 | 12:41:19 | Fix | 4915.267 | -7665.319 | -1288.721 | 5677499.834 | 8400313.080 | 178.020 | 1 | 8 | 2.743 | 0.027 | 0.108 |  |
| 4 | 12:42:25 | Fix | 4915.299 | -7665.308 | -1288.673 | 5677499.834 | 8400313.080 | 178.079 | 4 | 9 | 2.996 | 0.023 | 0.093 |  |
| 5 | 12:42:41 | Fix | 4916.877 | -7663.169 | -1290.585 | 5677496.835 | 8400314.391 | 178.015 | 4 | 10 | 2.992 | 0.008 | 0.018 |  |
| 6 | 12:43:05 | Fix | 4918.636 | -7658.612 | -1291.490 | 5677493.570 | 8400317.862 | 179.422 | 1 | 7 | 6.841 | 0.031 | 0.124 |  |
| 7 | 12:44:34 | Fix | 4906.773 | -7634.208 | -1292.101 | 5677493.898 | 8400344.961 | 177.954 | 3 | 10 | 2.321 | 0.012 | 0.024 |  |
| 8 | 12:44:59 | Fix | 4902.763 | -7640.142 | -1287.548 | 5677501.487 | 8400341.167 | 177.758 | 3 | 12 | 2.303 | 0.012 | 0.021 |  |
| 9 | 12:46:54 | Fix | 4900.295 | -7644.126 | -1284.643 | 5677506.327 | 8400338.530 | 177.638 | 4 | 8 | 2.824 | 0.024 | 0.040 |  |
| 10 | 12:47:07 | Fix | 4901.257 | -7645.722 | -1284.907 | 5677505.983 | 8400336.679 | 177.604 | 4 | 10 | 5.372 | 0.055 | 0.050 |  |
| 11 | 12:48:02 | Fix | 4899.455 | -7648.205 | -1282.613 | 5677509.491 | 8400335.147 | 177.753 | 4 | 9 | 6.886 | 0.013 | 0.034 |  |
| 12 | 12:48:11 | Fix | 4899.187 | -7648.103 | -1282.436 | 5677510.004 | 8400335.812 | 177.762 | 4 | 8 | 7.542 | 0.014 | 0.035 |  |
| 13 | 13:04:15 | Fix | 4884.624 | -7610.408 | -1283.044 | 5677507.798 | 8400375.716 | 177.930 | 4 | 13 | 1.702 | 0.006 | 0.009 |  |
| 14 | 13:04:40 | Fix | 4882.855 | -7613.222 | -1280.881 | 5677511.305 | 8400373.864 | 177.917 | 4 | 10 | 3.269 | 0.013 | 0.025 |  |
| 15 | 13:04:57 | Fix | 4882.773 | -7614.845 | -1280.255 | 5677512.270 | 8400372.416 | 177.967 | 4 | 11 | 2.702 | 0.014 | 0.038 |  |
| 16 | 13:05:15 | Fix | 4881.387 | -7617.097 | -1278.676 | 5677514.960 | 8400370.921 | 177.855 | 4 | 11 | 2.393 | 0.015 | 0.038 |  |
| 17 | 13:05:33 | Fix | 4879.852 | -7619.017 | -1277.036 | 5677517.689 | 8400369.789 | 177.784 | 4 | 8 | 4.738 | 0.019 | 0.045 |  |
| 18 | 13:05:43 | Fix | 4879.644 | -7619.070 | -1276.191 | 5677518.720 | 8400370.000 | 178.310 | 4 | 9 | 3.393 | 0.015 | 0.039 |  |

Data: 15-03-2017  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3696168.911 | 1536519.583 | 4949318.672 |

Wysokość anteny: 2.760  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 19 | 16:01:14 | Fix | 1.213 | -13.267 | -5.916 | 5677472.813 | 8400303.385 | 177.748 | 4 | 11 | 2.331 | 0.013 | 0.027 |  |
| 20 | 16:01:45 | Fix | 0.910 | -14.139 | -5.351 | 5677473.659 | 8400302.712 | 177.803 | 4 | 10 | 4.557 | 0.017 | 0.039 |  |
| 21 | 16:02:00 | Fix | -0.399 | -15.330 | -4.105 | 5677475.749 | 8400302.155 | 177.731 | 4 | 12 | 4.388 | 0.021 | 0.047 |  |
| 22 | 16:02:34 | Fix | -3.058 | -19.065 | -1.004 | 5677480.769 | 8400299.825 | 177.714 | 4 | 10 | 4.639 | 0.016 | 0.038 |  |
| 23 | 16:02:51 | Fix | -1.696 | -21.256 | -1.542 | 5677480.157 | 8400297.266 | 177.555 | 4 | 12 | 3.851 | 0.014 | 0.030 |  |
| 24 | 16:03:19 | Fix | -4.662 | -26.196 | 2.290 | 5677486.236 | 8400293.961 | 177.640 | 4 | 11 | 2.715 | 0.019 | 0.047 |  |
| 25 | 16:03:41 | Fix | -6.815 | -29.572 | 4.781 | 5677490.400 | 8400291.750 | 177.525 | 4 | 12 | 3.313 | 0.019 | 0.047 |  |
| 26 | 16:03:53 | Fix | -9.115 | -26.633 | 6.166 | 5677491.978 | 8400295.714 | 177.981 | 4 | 7 | 4.694 | 0.025 | 0.052 |  |
| 27 | 16:04:51 | Fix | -8.320 | -7.559 | -0.845 | 5677480.963 | 8400312.466 | 177.561 | 4 | 11 | 2.496 | 0.017 | 0.038 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 27 | 16:05:25 | Fix | -7.839 | -7.369 | -0.210 | 5677480.963 | 8400312.466 | 178.380 | 4 | 10 | 4.027 | 0.015 | 0.034 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 28 | 16:06:16 | Fix | -11.011 | -12.105 | 2.981 | 5677486.722 | 8400309.422 | 177.895 | 4 | 11 | 3.705 | 0.012 | 0.029 |  |
| 29 | 16:06:43 | Fix | -14.626 | -17.632 | 7.390 | 5677493.811 | 8400305.843 | 177.912 | 4 | 9 | 3.790 | 0.016 | 0.034 |  |
| 30 | 16:06:59 | Fix | -11.018 | -22.073 | 6.141 | 5677491.867 | 8400300.318 | 177.958 | 4 | 7 | 5.634 | 0.029 | 0.077 |  |
| 31 | 16:07:39 | Fix | -10.844 | -22.400 | 7.273 | 5677493.012 | 8400299.688 | 178.862 | 3 | 8 | 2.040 | 0.014 | 0.028 |  |
| 32 | 16:10:42 | Fix | -63.775 | 50.936 | 22.181 | 5677516.336 | 8400388.477 | 177.512 | 4 | 8 | 2.364 | 0.025 | 0.046 |  |
| 33 | 16:11:11 | Fix | -62.189 | 46.811 | 22.164 | 5677516.504 | 8400384.063 | 177.423 | 4 | 11 | 2.731 | 0.021 | 0.044 |  |
| 34 | 16:11:26 | Fix | -64.856 | 43.000 | 25.305 | 5677521.579 | 8400381.666 | 177.414 | 4 | 10 | 2.807 | 0.026 | 0.052 |  |
| 35 | 16:11:51 | Fix | -68.651 | 37.336 | 29.844 | 5677528.920 | 8400378.034 | 177.395 | 4 | 11 | 2.653 | 0.030 | 0.063 |  |
| 36 | 16:12:13 | Fix | -70.131 | 36.235 | 32.010 | 5677531.680 | 8400377.639 | 177.964 | 3 | 12 | 2.586 | 0.021 | 0.043 |  |
| 37 | 16:13:53 | Fix | -62.857 | 53.602 | 20.796 | 5677514.497 | 8400390.427 | 177.603 | 3 | 6 | 4.953 | 0.043 | 0.133 |  |
| 38 | 16:14:52 | Fix | -74.157 | 65.074 | 25.599 | 5677521.330 | 8400405.666 | 177.572 | 2 | 10 | 3.283 | 0.022 | 0.043 |  |
| 39 | 16:19:40 | Fix | -78.176 | -12.428 | 51.612 | 5677565.117 | 8400336.433 | 176.892 | 4 | 12 | 2.151 | 0.017 | 0.031 |  |
| 40 | 16:20:02 | Fix | -83.883 | -19.955 | 57.946 | 5677575.536 | 8400331.875 | 176.721 | 4 | 11 | 2.308 | 0.016 | 0.028 |  |
| 41 | 16:20:48 | Fix | -88.787 | -26.515 | 63.428 | 5677584.542 | 8400327.874 | 176.582 | 4 | 12 | 2.217 | 0.012 | 0.021 |  |
| 42 | 16:22:49 | Fix | -95.949 | -19.606 | 65.987 | 5677589.008 | 8400337.138 | 176.096 | 4 | 10 | 2.058 | 0.009 | 0.015 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 42 | 16:23:23 | Fix | -95.472 | -19.357 | 66.581 | 5677589.008 | 8400337.138 | 176.896 | 4 | 11 | 2.007 | 0.012 | 0.019 |  |
| 43 | 16:23:35 | Fix | -95.736 | -19.540 | 66.730 | 5677590.675 | 8400336.551 | 176.815 | 4 | 11 | 2.215 | 0.014 | 0.023 |  |
| 44 | 16:23:47 | Fix | -96.756 | -18.611 | 67.125 | 5677590.026 | 8400338.340 | 176.756 | 4 | 8 | 3.101 | 0.014 | 0.021 |  |
| 45 | 16:24:32 | Fix | -99.888 | -13.914 | 70.230 | 5677592.712 | 8400343.932 | 178.496 | 4 | 12 | 1.966 | 0.014 | 0.023 |  |
| 46 | 16:24:58 | Fix | -97.854 | -9.431 | 65.185 | 5677586.682 | 8400347.175 | 176.816 | 4 | 10 | 2.638 | 0.014 | 0.025 |  |
| 47 | 16:25:16 | Fix | -99.119 | -7.419 | 65.750 | 5677587.298 | 8400349.531 | 177.009 | 4 | 10 | 2.972 | 0.016 | 0.028 |  |
| 48 | 16:25:39 | Fix | -97.236 | -4.612 | 63.488 | 5677583.652 | 8400351.329 | 177.010 | 4 | 9 | 2.405 | 0.010 | 0.017 |  |
| 49 | 16:25:56 | Fix | -95.655 | -2.735 | 61.707 | 5677580.814 | 8400352.401 | 176.987 | 4 | 11 | 2.294 | 0.011 | 0.019 |  |
| 50 | 16:26:19 | Fix | -92.574 | 2.060 | 58.037 | 5677574.802 | 8400355.529 | 177.060 | 4 | 8 | 3.106 | 0.013 | 0.022 |  |
| 51 | 16:27:55 | Fix | -104.939 | 10.184 | 64.385 | 5677584.973 | 8400371.598 | 176.813 | 4 | 8 | 2.706 | 0.029 | 0.041 |  |
| 52 | 16:28:07 | Fix | -106.703 | 9.304 | 64.717 | 5677583.796 | 8400369.108 | 175.839 | 3 | 8 | 1.700 | 0.034 | 0.047 |  |
| 53 | 16:28:37 | Fix | -100.284 | 7.901 | 62.151 | 5677581.017 | 8400364.005 | 177.214 | 4 | 10 | 1.911 | 0.018 | 0.030 |  |
| 54 | 16:28:50 | Fix | -98.317 | 6.341 | 61.265 | 5677579.556 | 8400361.781 | 177.285 | 4 | 9 | 3.885 | 0.017 | 0.025 |  |
| 55 | 16:29:02 | Fix | -97.149 | 6.496 | 60.353 | 5677578.103 | 8400361.447 | 177.286 | 4 | 8 | 2.278 | 0.024 | 0.035 |  |
| 56 | 16:29:19 | Fix | -93.873 | 3.914 | 59.300 | 5677575.618 | 8400357.056 | 177.739 | 4 | 10 | 3.907 | 0.014 | 0.021 |  |
| 57 | 16:30:45 | Fix | -103.066 | 10.509 | 63.525 | 5677583.031 | 8400367.521 | 177.303 | 3 | 7 | 3.089 | 0.035 | 0.040 |  |

Data: 16-03-2017  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3696090.734 | 1536388.750 | 4949412.052 |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 58 | 16:05:43 | Fix | -7.976 | 141.610 | -43.054 | 5677562.659 | 8400360.871 | 176.858 | 4 | 12 | 1.879 | 0.010 | 0.017 |  |
| 59 | 16:06:35 | Fix | -1.403 | 150.763 | -50.312 | 5677550.506 | 8400366.575 | 177.200 | 4 | 12 | 2.341 | 0.009 | 0.017 |  |
| 60 | 16:07:13 | Fix | 3.926 | 154.790 | -55.549 | 5677542.154 | 8400368.086 | 177.168 | 4 | 10 | 2.769 | 0.012 | 0.022 |  |
| 61 | 16:07:43 | Fix | 6.949 | 151.014 | -56.453 | 5677540.631 | 8400363.408 | 177.303 | 4 | 9 | 2.880 | 0.011 | 0.020 |  |
| 62 | 16:07:54 | Fix | 7.440 | 150.909 | -56.624 | 5677540.208 | 8400363.114 | 177.428 | 4 | 9 | 2.795 | 0.012 | 0.020 |  |
| 63 | 16:09:05 | Fix | -32.754 | 167.354 | -32.689 | 5677578.491 | 8400394.135 | 176.801 | 4 | 9 | 4.344 | 0.018 | 0.035 |  |
| 64 | 16:09:24 | Fix | -32.723 | 168.365 | -32.873 | 5677578.152 | 8400395.393 | 176.918 | 4 | 10 | 3.409 | 0.009 | 0.018 |  |
| 65 | 16:09:43 | Fix | -35.372 | 171.348 | -32.115 | 5677579.568 | 8400399.192 | 176.695 | 4 | 10 | 2.957 | 0.011 | 0.022 |  |
| 66 | 16:11:12 | Fix | -29.385 | 180.543 | -38.793 | 5677568.206 | 8400405.166 | 177.161 | 4 | 9 | 4.630 | 0.058 | 0.091 |  |
| 67 | 16:11:22 | Fix | -30.316 | 181.693 | -38.302 | 5677568.812 | 8400406.597 | 177.282 | 1 | 10 | 2.969 | 0.058 | 0.091 |  |
| 68 | 16:12:24 | Fix | -28.488 | 184.480 | -40.632 | 5677565.167 | 8400408.398 | 177.193 | 4 | 8 | 3.990 | 0.013 | 0.025 |  |
| 69 | 16:12:52 | Fix | -26.464 | 187.483 | -42.870 | 5677560.952 | 8400410.728 | 177.341 | 1 | 7 | 3.063 | 0.057 | 0.105 |  |
| 70 | 16:13:50 | Fix | -30.749 | 182.046 | -38.102 | 5677570.291 | 8400408.700 | 177.273 | 4 | 8 | 4.358 | 0.029 | 0.057 |  |

Wysokość anteny: 1.940  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_001 |  | 3696176.075 | 1536520.638 | 4949307.924 |

**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 71 | 16:20:18 | Fix | -0.806 | -1.051 | -2.634 | 5677460.264 | 8400313.424 | 178.094 | 4 | 9 | 4.119 | 0.033 | 0.034 |  |
| 72 | 16:20:41 | Fix | 0.988 | -5.856 | -2.333 | 5677460.698 | 8400308.305 | 178.211 | 4 | 7 | 4.864 | 0.040 | 0.034 |  |
| 73 | 16:21:02 | Fix | 1.782 | -8.414 | -2.318 | 5677460.954 | 8400305.643 | 178.067 | 4 | 7 | 4.195 | 0.069 | 0.044 |  |
| 74 | 16:21:19 | Fix | 2.931 | -11.177 | -2.039 | 5677461.186 | 8400302.654 | 178.284 | 4 | 8 | 4.169 | 0.033 | 0.036 |  |
| 75 | 16:22:04 | Fix | 3.543 | -13.337 | -2.169 | 5677461.354 | 8400300.428 | 178.017 | 4 | 8 | 4.171 | 0.033 | 0.038 |  |
| 76 | 16:22:22 | Fix | 4.329 | -13.336 | -2.480 | 5677460.599 | 8400300.112 | 178.229 | 4 | 6 | 5.280 | 0.032 | 0.035 |  |
| 77 | 16:22:31 | Fix | 4.423 | -13.211 | -2.502 | 5677460.479 | 8400300.189 | 178.297 | 4 | 9 | 4.067 | 0.044 | 0.044 |  |
| 78 | 16:24:31 | Fix | 7.453 | -22.618 | -2.037 | 5677461.595 | 8400290.359 | 178.149 | 1 | 9 | 4.026 | 0.038 | 0.038 |  |
| 79 | 16:24:47 | Fix | 7.006 | -24.283 | -1.628 | 5677462.698 | 8400289.015 | 177.810 | 1 | 8 | 3.842 | 0.080 | 0.070 |  |
| 80 | 16:27:04 | Fix | 9.764 | -32.393 | -1.284 | 5677463.520 | 8400280.482 | 177.723 | 4 | 7 | 5.380 | 0.038 | 0.045 |  |
| 81 | 16:28:57 | Fix | 12.423 | -38.600 | -0.291 | 5677464.216 | 8400273.742 | 178.542 | 1 | 7 | 2.950 | 1.099 | 2.078 |  |
| 82 | 16:30:09 | Fix | 15.294 | -46.140 | -1.390 | 5677463.875 | 8400265.669 | 177.532 | 4 | 10 | 3.850 | 0.050 | 0.081 |  |
| 83 | 16:30:22 | Fix | 14.079 | -43.915 | -1.201 | 5677464.152 | 8400268.196 | 177.512 | 4 | 8 | 4.013 | 0.032 | 0.034 |  |
| 84 | 16:30:36 | Fix | 13.025 | -41.521 | -1.019 | 5677464.258 | 8400270.813 | 177.620 | 4 | 10 | 4.499 | 0.035 | 0.037 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 85 | 16:32:01 | Fix | 11.305 | -65.401 | 6.602 | 5677477.828 | 8400249.682 | 176.826 | 4 | 10 | 2.857 | 0.017 | 0.022 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN | 16:39:23 | Fix | -13.071 | 8.281 | 4.697 | 5677470.632 | 8400326.952 | 178.961 | 4 | 11 | 2.920 | 0.050 | 0.065 |  |

Data: 21-03-2017  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN1 | 17:24:48 | Fix | -30.837 | -121.056 | 55.672 | 5677556.222 | 8400215.982 | 177.331 | 30 | 12 | 2.069 | 0.006 | 0.009 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 86 | 17:31:18 | Fix | -88.641 | -93.248 | 89.502 | 5677608.635 | 8400268.946 | 176.966 | 4 | 9 | 2.399 | 0.096 | 0.051 |  |
| 87 | 17:31:32 | Fix | -89.342 | -92.406 | 89.878 | 5677610.267 | 8400268.084 | 177.056 | 4 | 9 | 2.399 | 0.096 | 0.051 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 88 | 17:32:03 | Fix | -92.875 | -95.511 | 93.083 | 5677615.736 | 8400264.551 | 176.766 | 4 | 6 | 6.627 | 0.042 | 0.072 |  |
| 89 | 17:32:12 | Fix | -92.761 | -95.498 | 93.136 | 5677615.780 | 8400264.478 | 176.876 | 4 | 10 | 3.231 | 0.035 | 0.062 |  |
| 90 | 17:32:40 | Fix | -88.661 | -96.544 | 94.536 | 5677614.760 | 8400262.042 | 180.087 | 4 | 7 | 3.448 | 0.024 | 0.026 |  |
| 90 | 17:33:42 | Fix | -91.074 | -97.458 | 92.588 | 5677614.760 | 8400262.042 | 176.953 | 4 | 8 | 3.022 | 0.022 | 0.025 |  |
| 91 | 17:34:14 | Fix | -88.645 | -98.218 | 93.210 | 5677613.600 | 8400259.482 | 178.659 | 4 | 11 | 2.175 | 0.022 | 0.025 |  |
| 92 | 17:34:30 | Fix | -88.866 | -99.204 | 93.151 | 5677613.980 | 8400258.899 | 178.248 | 4 | 10 | 2.255 | 0.016 | 0.018 |  |
| 93 | 17:35:03 | Fix | -90.874 | -103.039 | 94.457 | 5677617.558 | 8400256.865 | 177.184 | 4 | 10 | 1.719 | 0.022 | 0.026 |  |
| 94 | 17:37:09 | Fix | -94.159 | -108.324 | 98.326 | 5677623.997 | 8400253.370 | 177.030 | 4 | 8 | 3.035 | 0.015 | 0.025 |  |
| 95 | 17:37:59 | Fix | -94.125 | -109.027 | 98.565 | 5677624.345 | 8400252.714 | 177.067 | 4 | 9 | 1.864 | 0.015 | 0.024 |  |
| 96 | 17:38:22 | Fix | -90.440 | -112.812 | 97.051 | 5677621.973 | 8400247.758 | 177.108 | 4 | 9 | 2.591 | 0.015 | 0.024 |  |
| 97 | 17:39:29 | Fix | -89.137 | -115.122 | 98.386 | 5677618.839 | 8400240.866 | 178.347 | 4 | 10 | 1.961 | 0.014 | 0.020 |  |
| 98 | 17:43:09 | Fix | -80.823 | -122.731 | 97.951 | 5677616.799 | 8400237.011 | 180.985 | 3 | 13 | 1.501 | 0.064 | 0.041 |  |
| 99 | 17:43:59 | Fix | -79.675 | -125.303 | 97.473 | 5677619.321 | 8400232.709 | 180.658 | 3 | 11 | 1.601 | 0.019 | 0.026 |  |
| 100 | 17:44:39 | Fix | -80.367 | -121.304 | 100.578 | 5677615.874 | 8400234.967 | 183.640 | 4 | 10 | 1.968 | 0.018 | 0.027 |  |
| 101 | 17:45:13 | Fix | -80.794 | -119.956 | 94.765 | 5677615.914 | 8400234.501 | 179.185 | 3 | 9 | 1.979 | 0.026 | 0.028 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 102 | 17:46:06 | Fix | -73.141 | -129.902 | 97.345 | 5677615.255 | 8400225.202 | 183.231 | 2 | 8 | 2.310 | 0.020 | 0.031 |  |
| 103 | 17:46:20 | Fix | -73.008 | -130.178 | 97.319 | 5677615.231 | 8400224.896 | 183.221 | 3 | 7 | 3.204 | 0.021 | 0.028 |  |
| 104 | 17:46:29 | Fix | -73.683 | -130.606 | 96.495 | 5677615.331 | 8400224.761 | 182.085 | 4 | 9 | 1.775 | 0.018 | 0.033 |  |
| 105 | 17:46:57 | Fix | -65.152 | -141.791 | 90.392 | 5677608.981 | 8400211.032 | 179.571 | 4 | 9 | 2.092 | 0.018 | 0.027 |  |
| 106 | 17:47:23 | Fix | -62.865 | -146.337 | 87.163 | 5677606.772 | 8400205.912 | 177.283 | 3 | 8 | 2.244 | 0.024 | 0.025 |  |
| 107 | 17:47:49 | Fix | -60.882 | -148.145 | 86.291 | 5677605.386 | 8400203.455 | 177.315 | 4 | 7 | 4.035 | 0.072 | 0.049 |  |
| 108 | 17:48:06 | Fix | -58.198 | -144.107 | 82.812 | 5677600.016 | 8400206.049 | 177.126 | 4 | 7 | 4.618 | 0.039 | 0.041 |  |
| 109 | 17:48:20 | Fix | -57.172 | -142.587 | 81.584 | 5677598.034 | 8400207.021 | 177.128 | 4 | 8 | 2.246 | 0.025 | 0.024 |  |
| 110 | 17:48:30 | Fix | -56.820 | -140.913 | 80.955 | 5677596.859 | 8400208.409 | 177.243 | 4 | 10 | 6.153 | 0.026 | 0.024 |  |
| 111 | 17:48:42 | Fix | -56.892 | -140.397 | 81.017 | 5677596.785 | 8400208.912 | 177.373 | 2 | 6 | 7.020 | 0.077 | 0.102 |  |
| 112 | 17:50:09 | Fix | -96.750 | -147.347 | 112.065 | 5677646.821 | 8400218.767 | 176.860 | 4 | 11 | 2.197 | 0.014 | 0.017 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 113 | 17:51:03 | Fix | -94.178 | -143.558 | 109.184 | 5677641.983 | 8400221.185 | 177.013 | 4 | 11 | 1.953 | 0.015 | 0.022 |  |
| 114 | 17:51:30 | Fix | -92.172 | -140.498 | 106.596 | 5677637.963 | 8400223.163 | 176.891 | 4 | 8 | 3.148 | 0.022 | 0.029 |  |
| 115 | 17:52:00 | Fix | -90.039 | -136.688 | 103.557 | 5677633.333 | 8400225.773 | 176.670 | 4 | 8 | 1.768 | 0.013 | 0.016 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 116 | 17:52:42 | Fix | -87.521 | -132.706 | 101.048 | 5677628.705 | 8400228.394 | 177.128 | 4 | 10 | 1.934 | 0.013 | 0.018 |  |
| 117 | 17:52:57 | Fix | -89.847 | -130.281 | 101.886 | 5677630.118 | 8400231.554 | 177.020 | 4 | 8 | 2.947 | 0.012 | 0.015 |  |
| 118 | 17:58:21 | Fix | -85.191 | -129.012 | 98.125 | 5677624.044 | 8400230.821 | 177.085 | 4 | 11 | 1.551 | 0.040 | 0.079 |  |
| 119 | 17:58:39 | Fix | -90.127 | -130.038 | 102.026 | 5677631.716 | 8400234.951 | 177.025 | 4 | 9 | 3.170 | 0.016 | 0.019 |  |

Data: 24-03-2017  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3696157.764 | 1536451.659 | 4949342.548 |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 120 | 10:27:57 | Fix | 12.244 | 55.514 | -29.881 | 5677472.568 | 8400304.217 | 177.818 | 4 | 8 | 4.619 | 0.022 | 0.052 |  |
| 121 | 10:28:19 | Fix | 11.359 | 57.020 | -29.632 | 5677472.876 | 8400305.954 | 177.863 | 4 | 7 | 4.620 | 0.020 | 0.053 |  |
| 122 | 10:28:38 | Fix | 12.134 | 58.638 | -30.709 | 5677471.136 | 8400307.116 | 177.860 | 4 | 8 | 4.620 | 0.019 | 0.045 |  |
| 123 | 10:29:06 | Fix | 10.771 | 60.109 | -30.292 | 5677471.882 | 8400309.021 | 177.751 | 1 | 7 | 4.620 | 0.030 | 0.074 |  |
| 123 | 10:29:31 | Fix | 10.818 | 60.137 | -30.257 | 5677471.882 | 8400309.021 | 177.812 | 4 | 9 | 2.300 | 0.019 | 0.046 |  |
| 124 | 10:29:56 | Fix | 10.381 | 60.112 | -29.803 | 5677472.485 | 8400309.177 | 177.907 | 4 | 8 | 3.153 | 0.017 | 0.043 |  |
| 125 | 10:30:16 | Fix | 9.419 | 61.214 | -29.460 | 5677473.036 | 8400310.575 | 177.883 | 4 | 8 | 4.645 | 0.019 | 0.046 |  |
| 126 | 10:31:24 | Fix | 0.607 | 70.320 | -25.900 | 5677478.654 | 8400322.477 | 177.753 | 4 | 10 | 3.099 | 0.018 | 0.034 |  |
| 127 | 10:31:55 | Fix | -0.202 | 71.217 | -25.628 | 5677479.116 | 8400323.625 | 177.713 | 4 | 11 | 1.525 | 0.025 | 0.044 |  |
| 128 | 10:32:15 | Fix | -0.736 | 71.627 | -25.176 | 5677479.650 | 8400324.219 | 177.854 | 4 | 11 | 1.665 | 0.025 | 0.045 |  |
| 129 | 10:32:41 | Fix | 2.968 | 75.660 | -29.376 | 5677473.103 | 8400326.395 | 177.692 | 4 | 9 | 2.305 | 0.019 | 0.038 |  |
| 130 | 10:33:02 | Fix | 3.694 | 76.610 | -29.974 | 5677471.910 | 8400326.971 | 177.874 | 4 | 9 | 2.559 | 0.029 | 0.066 |  |
| 131 | 10:33:30 | Fix | -3.411 | 74.883 | -23.821 | 5677481.371 | 8400328.287 | 178.147 | 4 | 9 | 2.347 | 0.015 | 0.031 |  |
| 132 | 10:34:15 | Fix | -7.422 | 78.937 | -22.109 | 5677484.014 | 8400333.623 | 178.137 | 4 | 10 | 2.140 | 0.016 | 0.031 |  |
| 133 | 10:34:51 | Fix | -8.671 | 79.790 | -21.704 | 5677484.887 | 8400334.907 | 177.936 | 4 | 10 | 2.140 | 0.021 | 0.039 |  |
| 134 | 10:35:22 | Fix | -10.804 | 82.104 | -20.803 | 5677486.236 | 8400337.889 | 177.961 | 4 | 9 | 2.307 | 0.018 | 0.035 |  |
| 135 | 10:35:42 | Fix | -12.630 | 83.906 | -19.961 | 5677487.493 | 8400340.279 | 177.996 | 4 | 11 | 2.105 | 0.019 | 0.030 |  |
| 136 | 10:36:09 | Fix | -15.612 | 87.104 | -18.796 | 5677489.332 | 8400344.414 | 177.948 | 4 | 9 | 2.387 | 0.021 | 0.035 |  |
| 137 | 10:36:33 | Fix | -17.243 | 88.794 | -18.303 | 5677490.267 | 8400346.619 | 177.796 | 4 | 8 | 2.329 | 0.017 | 0.031 |  |
| 138 | 10:36:48 | Fix | -17.420 | 88.454 | -17.984 | 5677490.701 | 8400346.381 | 177.861 | 4 | 9 | 4.549 | 0.019 | 0.032 |  |
| 139 | 10:37:01 | Fix | -18.149 | 89.748 | -17.931 | 5677490.843 | 8400347.859 | 177.791 | 4 | 8 | 4.544 | 0.020 | 0.038 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 140 | 10:37:47 | Fix | -15.126 | 69.269 | -14.062 | 5677497.606 | 8400327.915 | 177.632 | 4 | 10 | 2.032 | 0.017 | 0.026 |  |
| 141 | 10:38:10 | Fix | -17.751 | 65.453 | -10.993 | 5677502.608 | 8400325.496 | 177.589 | 4 | 12 | 1.815 | 0.018 | 0.028 |  |
| 142 | 10:38:34 | Fix | -19.972 | 63.878 | -8.790 | 5677506.069 | 8400324.961 | 177.643 | 4 | 10 | 3.316 | 0.017 | 0.025 |  |
| 143 | 10:38:49 | Fix | -20.532 | 63.722 | -8.382 | 5677506.773 | 8400325.046 | 177.600 | 4 | 10 | 2.099 | 0.016 | 0.025 |  |
| 144 | 10:39:03 | Fix | -21.382 | 62.119 | -7.218 | 5677508.808 | 8400323.767 | 177.630 | 4 | 6 | 4.503 | 0.027 | 0.044 |  |
| 145 | 10:39:38 | Fix | -10.643 | 76.554 | -19.533 | 5677488.677 | 8400332.749 | 177.710 | 4 | 11 | 2.409 | 0.016 | 0.023 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 146 | 10:40:36 | Fix | -22.849 | 94.703 | -15.823 | 5677493.939 | 8400354.299 | 177.908 | 4 | 11 | 1.994 | 0.020 | 0.029 |  |
| 147 | 10:40:52 | Fix | -24.904 | 96.734 | -15.098 | 5677495.212 | 8400356.989 | 177.774 | 4 | 10 | 2.190 | 0.017 | 0.031 |  |
| 148 | 10:41:08 | Fix | -25.080 | 96.545 | -14.741 | 5677495.621 | 8400356.890 | 177.904 | 4 | 9 | 3.384 | 0.018 | 0.030 |  |
| 149 | 10:41:29 | Fix | -26.371 | 98.405 | -14.403 | 5677496.162 | 8400359.114 | 177.869 | 4 | 10 | 2.122 | 0.016 | 0.026 |  |
| 150 | 10:41:50 | Fix | -27.343 | 99.774 | -14.000 | 5677496.673 | 8400360.761 | 177.950 | 1 | 11 | 2.277 | 0.023 | 0.040 |  |
| 151 | 10:42:04 | Fix | -28.452 | 100.613 | -13.507 | 5677497.506 | 8400361.978 | 177.896 | 4 | 10 | 2.301 | 0.016 | 0.027 |  |
| 152 | 10:42:21 | Fix | -29.414 | 101.437 | -13.178 | 5677498.136 | 8400363.121 | 177.793 | 4 | 11 | 2.117 | 0.012 | 0.018 |  |
| 153 | 10:42:38 | Fix | -30.707 | 102.916 | -12.911 | 5677498.755 | 8400364.995 | 177.609 | 4 | 11 | 1.779 | 0.012 | 0.017 |  |
| 154 | 10:43:04 | Fix | -34.077 | 106.386 | -11.542 | 5677500.911 | 8400369.536 | 177.563 | 4 | 11 | 1.871 | 0.012 | 0.017 |  |
| 155 | 10:43:20 | Fix | -35.677 | 107.912 | -10.691 | 5677502.101 | 8400371.583 | 177.668 | 4 | 11 | 1.870 | 0.013 | 0.019 |  |
| 156 | 10:43:39 | Fix | -39.123 | 111.736 | -9.001 | 5677504.401 | 8400376.482 | 177.912 | 4 | 10 | 2.015 | 0.039 | 0.077 |  |
| 157 | 10:44:14 | Fix | -39.929 | 111.876 | -8.705 | 5677505.115 | 8400376.934 | 177.711 | 4 | 11 | 1.934 | 0.015 | 0.022 |  |
| 158 | 10:44:31 | Fix | -39.993 | 112.664 | -8.718 | 5677504.904 | 8400377.683 | 177.853 | 4 | 10 | 2.032 | 0.015 | 0.021 |  |
| 159 | 10:44:49 | Fix | -42.124 | 114.706 | -7.965 | 5677506.245 | 8400380.413 | 177.699 | 4 | 10 | 2.011 | 0.013 | 0.019 |  |
| 160 | 10:45:10 | Fix | -44.672 | 117.338 | -6.809 | 5677507.949 | 8400383.855 | 177.760 | 4 | 9 | 2.234 | 0.014 | 0.023 |  |
| 161 | 10:45:34 | Fix | -49.672 | 122.593 | -4.907 | 5677511.035 | 8400390.688 | 177.615 | 4 | 10 | 2.318 | 0.016 | 0.023 |  |
| 162 | 10:45:54 | Fix | -50.395 | 122.981 | -4.615 | 5677511.609 | 8400391.335 | 177.518 | 4 | 10 | 2.315 | 0.026 | 0.037 |  |
| 163 | 10:46:08 | Fix | -50.538 | 123.674 | -4.493 | 5677511.568 | 8400392.029 | 177.696 | 4 | 9 | 2.313 | 0.022 | 0.032 |  |
| 164 | 10:46:29 | Fix | -52.866 | 126.015 | -3.501 | 5677513.105 | 8400395.115 | 177.686 | 4 | 7 | 4.290 | 0.026 | 0.041 |  |
| 165 | 10:47:08 | Fix | -56.448 | 129.823 | -2.091 | 5677515.332 | 8400400.050 | 177.630 | 4 | 8 | 4.268 | 0.021 | 0.036 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 166 | 10:50:41 | Fix | -64.379 | 131.079 | 3.344 | 5677523.811 | 8400404.131 | 177.584 | 4 | 11 | 1.728 | 0.013 | 0.027 |  |
| 166 | 10:51:11 | Fix | -64.121 | 130.873 | 3.255 | 5677523.811 | 8400404.131 | 177.613 | 4 | 12 | 1.728 | 0.011 | 0.015 |  |
| 167 | 10:51:34 | Fix | -61.918 | 128.237 | 2.281 | 5677522.469 | 8400400.825 | 177.494 | 4 | 11 | 2.037 | 0.019 | 0.028 |  |
| 168 | 10:51:50 | Fix | -61.851 | 127.386 | 2.731 | 5677522.973 | 8400400.023 | 177.679 | 4 | 7 | 3.064 | 0.025 | 0.033 |  |
| 169 | 10:52:09 | Fix | -63.818 | 124.678 | 4.992 | 5677526.649 | 8400398.348 | 177.654 | 4 | 7 | 3.064 | 0.025 | 0.033 |  |
| 170 | 10:52:28 | Fix | -62.249 | 124.437 | 5.326 | 5677525.379 | 8400396.326 | 178.763 | 4 | 7 | 5.667 | 0.025 | 0.033 |  |
| 171 | 10:53:20 | Fix | -60.155 | 133.148 | -1.207 | 5677517.471 | 8400404.586 | 176.975 | 1 | 9 | 1.853 | 0.034 | 0.053 |  |
| 172 | 10:53:34 | Fix | -61.457 | 133.964 | -0.674 | 5677518.474 | 8400405.859 | 176.834 | 4 | 8 | 5.721 | 0.047 | 0.077 |  |
| 173 | 10:53:51 | Fix | -62.614 | 135.345 | -0.377 | 5677519.045 | 8400407.590 | 176.729 | 1 | 8 | 2.354 | 0.039 | 0.073 |  |
| 174 | 10:54:52 | Fix | -66.697 | 139.639 | 1.330 | 5677521.661 | 8400413.175 | 176.731 | 4 | 9 | 2.241 | 0.018 | 0.024 |  |
| 175 | 10:55:10 | Fix | -68.035 | 141.379 | 2.027 | 5677522.499 | 8400415.311 | 176.920 | 4 | 10 | 3.575 | 0.024 | 0.037 |  |
| 176 | 10:55:35 | Fix | -69.102 | 141.608 | 2.439 | 5677523.445 | 8400415.951 | 176.679 | 4 | 9 | 3.669 | 0.021 | 0.033 |  |
| 177 | 10:55:52 | Fix | -69.198 | 142.259 | 2.344 | 5677523.247 | 8400416.585 | 176.706 | 4 | 8 | 3.491 | 0.022 | 0.039 |  |
| 178 | 10:58:49 | Fix | 4.965 | 65.324 | -28.204 | 5677475.691 | 8400316.132 | 177.275 | 4 | 12 | 1.759 | 0.017 | 0.019 |  |
| 179 | 10:59:48 | Fix | 3.502 | 66.536 | -28.256 | 5677476.317 | 8400317.825 | 176.681 | 4 | 12 | 1.694 | 0.025 | 0.027 |  |
| 180 | 11:01:10 | Fix | 14.433 | 70.601 | -35.919 | 5677462.443 | 8400317.114 | 178.004 | 4 | 13 | 1.624 | 0.016 | 0.017 |  |
| 181 | 11:01:40 | Fix | 10.673 | 70.199 | -33.120 | 5677467.002 | 8400318.274 | 177.916 | 4 | 14 | 1.584 | 0.015 | 0.016 |  |
| OSN2 | 11:04:34 | Fix | -12.986 | -52.286 | 20.419 | 5677556.219 | 8400215.976 | 176.524 | 4 | 11 | 1.796 | 0.016 | 0.022 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN2 | 11:05:06 | Fix | -12.529 | -52.086 | 21.034 | 5677556.219 | 8400215.976 | 177.316 | 4 | 11 | 1.798 | 0.014 | 0.019 |  |

Data: 28-03-2017  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN3 | 13:35:10 | Fix | -100.447 | 137.704 | 28.421 | 5677563.278 | 8400425.153 | 177.870 | 4 | 12 | 2.373 | 0.036 | 0.046 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 182 | 13:36:33 | Fix | -116.720 | 110.418 | 47.085 | 5677595.406 | 8400407.572 | 176.452 | 4 | 12 | 1.935 | 0.010 | 0.015 |  |
| 183 | 13:37:01 | Fix | -111.941 | 105.508 | 45.157 | 5677592.156 | 8400400.391 | 176.531 | 4 | 12 | 1.839 | 0.012 | 0.018 |  |
| 184 | 13:37:21 | Fix | -109.149 | 102.712 | 44.035 | 5677590.351 | 8400396.703 | 176.598 | 4 | 8 | 2.313 | 0.012 | 0.017 |  |
| 185 | 13:37:37 | Fix | -108.761 | 102.633 | 43.687 | 5677589.882 | 8400396.471 | 176.532 | 4 | 13 | 1.748 | 0.017 | 0.025 |  |
| 186 | 13:37:58 | Fix | -105.551 | 99.190 | 42.387 | 5677587.873 | 8400392.021 | 176.547 | 4 | 6 | 4.387 | 0.015 | 0.036 |  |
| 187 | 13:38:20 | Fix | -104.718 | 97.595 | 42.384 | 5677587.784 | 8400390.226 | 176.642 | 4 | 6 | 4.387 | 0.015 | 0.036 |  |
| 188 | 13:38:37 | Fix | -102.124 | 95.047 | 41.249 | 5677586.033 | 8400386.842 | 176.645 | 4 | 5 | 3.553 | 0.016 | 0.037 |  |
| 189 | 13:39:12 | Fix | -94.457 | 87.213 | 37.978 | 5677581.009 | 8400376.566 | 176.644 | 4 | 14 | 1.627 | 0.008 | 0.012 |  |
| 190 | 13:39:32 | Fix | -92.737 | 84.929 | 37.428 | 5677580.164 | 8400373.780 | 176.661 | 4 | 13 | 1.718 | 0.008 | 0.011 |  |
| 191 | 13:40:10 | Fix | -89.431 | 81.646 | 36.092 | 5677578.013 | 8400369.436 | 176.742 | 4 | 11 | 1.617 | 0.016 | 0.033 |  |
| 192 | 13:40:27 | Fix | -89.327 | 80.706 | 36.434 | 5677578.451 | 8400368.536 | 176.843 | 4 | 14 | 1.777 | 0.010 | 0.014 |  |
| 193 | 13:40:56 | Fix | -84.732 | 75.763 | 34.272 | 5677575.392 | 8400362.148 | 176.626 | 4 | 13 | 1.823 | 0.011 | 0.016 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 194 | 13:41:54 | Fix | -81.258 | 72.412 | 33.216 | 5677572.914 | 8400357.283 | 177.005 | 4 | 12 | 1.722 | 0.010 | 0.015 |  |
| 195 | 13:42:11 | Fix | -80.434 | 71.591 | 32.903 | 5677572.923 | 8400356.433 | 177.040 | 4 | 11 | 1.906 | 0.016 | 0.025 |  |
| 196 | 13:42:45 | Fix | -76.653 | 67.789 | 31.386 | 5677570.359 | 8400351.584 | 177.129 | 4 | 14 | 1.493 | 0.009 | 0.013 |  |
| 197 | 13:43:21 | Fix | -73.938 | 64.965 | 30.096 | 5677568.513 | 8400347.898 | 177.015 | 4 | 13 | 1.717 | 0.009 | 0.014 |  |
| 198 | 13:43:52 | Fix | -68.818 | 59.499 | 28.333 | 5677565.496 | 8400340.825 | 177.287 | 4 | 15 | 1.337 | 0.009 | 0.013 |  |
| 199 | 13:44:31 | Fix | -65.459 | 56.031 | 26.722 | 5677563.194 | 8400336.287 | 177.140 | 4 | 15 | 1.552 | 0.009 | 0.014 |  |
| 200 | 13:44:45 | Fix | -65.902 | 56.539 | 27.042 | 5677563.549 | 8400336.934 | 177.255 | 4 | 15 | 1.466 | 0.008 | 0.012 |  |
| 201 | 13:45:19 | Fix | -57.548 | 47.579 | 23.739 | 5677558.372 | 8400325.351 | 177.356 | 4 | 9 | 4.194 | 0.020 | 0.032 |  |
| 202 | 13:45:33 | Fix | -57.283 | 47.077 | 23.596 | 5677558.253 | 8400324.783 | 177.278 | 4 | 9 | 3.417 | 0.017 | 0.028 |  |
| 203 | 13:46:11 | Fix | -50.994 | 40.809 | 21.016 | 5677554.146 | 8400316.499 | 177.395 | 4 | 7 | 2.365 | 0.015 | 0.021 |  |
| 204 | 13:46:48 | Fix | -45.837 | 35.601 | 18.828 | 5677550.753 | 8400309.644 | 177.419 | 4 | 6 | 7.982 | 0.031 | 0.039 |  |
| 205 | 13:47:06 | Fix | -45.600 | 35.150 | 18.541 | 5677550.548 | 8400309.132 | 177.224 | 4 | 6 | 7.971 | 0.038 | 0.045 |  |
| 206 | 13:48:10 | Fix | -40.175 | 30.159 | 16.524 | 5677546.575 | 8400301.455 | 177.589 | 4 | 9 | 3.423 | 0.014 | 0.028 |  |
| 207 | 13:48:26 | Fix | -41.035 | 30.846 | 16.721 | 5677547.522 | 8400303.346 | 177.410 | 4 | 6 | 2.725 | 0.014 | 0.026 |  |
| 208 | 13:48:34 | Fix | -41.223 | 30.661 | 16.844 | 5677548.248 | 8400303.122 | 177.353 | 4 | 5 | 3.176 | 0.027 | 0.032 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 209 | 13:49:09 | Fix | -37.809 | 27.247 | 15.091 | 5677545.345 | 8400298.740 | 177.139 | 1 | 10 | 3.121 | 0.118 | 0.200 |  |
| 210 | 13:49:27 | Fix | -37.118 | 28.039 | 14.176 | 5677544.028 | 8400299.182 | 177.016 | 4 | 10 | 3.123 | 0.017 | 0.034 |  |
| 211 | 13:49:51 | Fix | -33.741 | 24.531 | 12.743 | 5677541.838 | 8400294.602 | 177.008 | 4 | 9 | 3.212 | 0.022 | 0.046 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 212 | 13:50:27 | Fix | -32.350 | 23.027 | 12.526 | 5677541.188 | 8400292.666 | 177.281 | 4 | 9 | 3.325 | 0.023 | 0.053 |  |
| 213 | 13:50:38 | Fix | -32.467 | 22.411 | 12.857 | 5677541.674 | 8400292.152 | 177.323 | 4 | 8 | 3.014 | 0.025 | 0.056 |  |
| 214 | 13:51:28 | Fix | -14.086 | 5.301 | 3.689 | 5677528.268 | 8400269.032 | 176.691 | 4 | 10 | 2.982 | 0.014 | 0.036 |  |
| 215 | 13:51:53 | Fix | -9.362 | 0.151 | 1.389 | 5677525.096 | 8400262.400 | 176.391 | 4 | 8 | 3.933 | 0.019 | 0.053 |  |
| 216 | 13:52:09 | Fix | -8.822 | -0.454 | 1.125 | 5677524.737 | 8400261.627 | 176.352 | 4 | 10 | 3.080 | 0.017 | 0.042 |  |

Data: 31-03-2017  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3691231.912 | 1544172.027 | 4950618.723 |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 217 | 14:17:55 | Fix | 4924.685 | -7728.082 | -1277.760 | 5677519.890 | 8400251.888 | 176.921 | 4 | 12 | 2.225 | 0.017 | 0.039 |  |
| 218 | 14:18:21 | Fix | 4929.244 | -7732.925 | -1279.819 | 5677516.890 | 8400245.607 | 176.787 | 4 | 8 | 3.213 | 0.028 | 0.085 |  |
| 219 | 14:18:52 | Fix | 4927.921 | -7734.860 | -1278.179 | 5677519.472 | 8400244.378 | 176.836 | 4 | 14 | 1.844 | 0.008 | 0.019 |  |
| 220 | 14:19:26 | Fix | 4932.951 | -7728.145 | -1284.001 | 5677510.239 | 8400248.716 | 176.820 | 4 | 12 | 2.284 | 0.035 | 0.051 |  |
| 221 | 14:19:51 | Fix | 4935.002 | -7729.574 | -1282.536 | 5677507.694 | 8400245.869 | 178.804 | 4 | 8 | 4.458 | 0.027 | 0.061 |  |
| 222 | 14:20:20 | Fix | 4931.971 | -7725.924 | -1283.457 | 5677510.448 | 8400250.901 | 177.211 | 3 | 9 | 2.761 | 0.024 | 0.047 |  |
| 223 | 14:20:46 | Fix | 4929.240 | -7723.176 | -1282.775 | 5677509.375 | 8400249.216 | 176.825 | 4 | 11 | 2.361 | 0.020 | 0.043 |  |
| 224 | 14:21:05 | Fix | 4928.403 | -7723.348 | -1282.048 | 5677513.056 | 8400254.701 | 176.866 | 4 | 13 | 1.943 | 0.016 | 0.038 |  |
| 225 | 14:21:59 | Fix | 4920.202 | -7714.570 | -1278.626 | 5677518.256 | 8400266.058 | 176.902 | 4 | 10 | 2.182 | 0.027 | 0.065 |  |
| 226 | 14:22:10 | Fix | 4919.893 | -7713.784 | -1278.698 | 5677518.182 | 8400266.901 | 176.856 | 4 | 7 | 3.909 | 0.027 | 0.071 |  |
| 227 | 14:22:25 | Fix | 4918.909 | -7712.715 | -1278.257 | 5677518.820 | 8400268.279 | 176.888 | 2 | 10 | 2.731 | 0.019 | 0.055 |  |
| 228 | 14:23:56 | Fix | 4909.061 | -7707.920 | -1272.391 | 5677523.890 | 8400278.829 | 176.920 | 4 | 9 | 4.221 | 0.025 | 0.049 |  |
| 229 | 14:24:15 | Fix | 4905.825 | -7704.265 | -1271.032 | 5677526.183 | 8400283.567 | 176.986 | 4 | 10 | 4.013 | 0.012 | 0.035 |  |
| 230 | 14:24:33 | Fix | 4902.756 | -7696.298 | -1271.054 | 5677529.629 | 8400289.853 | 177.110 | 4 | 9 | 3.669 | 0.023 | 0.044 |  |
| 231 | 14:24:45 | Fix | 4901.822 | -7695.402 | -1270.746 | 5677530.204 | 8400291.050 | 177.026 | 4 | 7 | 2.542 | 0.027 | 0.048 |  |
| 232 | 14:25:09 | Fix | 4893.383 | -7686.666 | -1267.168 | 5677535.685 | 8400302.465 | 177.036 | 4 | 8 | 2.872 | 0.023 | 0.047 |  |
| 233 | 14:25:26 | Fix | 4890.667 | -7683.841 | -1266.060 | 5677537.416 | 8400306.150 | 177.009 | 4 | 9 | 2.812 | 0.020 | 0.043 |  |
| 234 | 14:25:42 | Fix | 4889.060 | -7682.221 | -1265.369 | 5677538.480 | 8400308.284 | 177.008 | 4 | 10 | 2.791 | 0.018 | 0.041 |  |
| 235 | 14:26:02 | Fix | 4889.166 | -7682.039 | -1265.463 | 5677538.288 | 8400308.408 | 177.039 | 4 | 11 | 2.539 | 0.017 | 0.037 |  |
| 236 | 14:26:17 | Fix | 4889.011 | -7681.900 | -1265.394 | 5677538.398 | 8400308.598 | 177.036 | 4 | 11 | 2.741 | 0.017 | 0.039 |  |
| 237 | 14:26:31 | Fix | 4889.128 | -7681.730 | -1265.537 | 5677538.170 | 8400308.706 | 177.034 | 4 | 10 | 2.740 | 0.017 | 0.039 |  |
| 238 | 14:26:52 | Fix | 4889.381 | -7682.289 | -1265.577 | 5677538.143 | 8400308.092 | 177.015 | 4 | 10 | 2.740 | 0.017 | 0.039 |  |
| 239 | 14:27:12 | Fix | 4889.541 | -7682.128 | -1265.635 | 5677537.941 | 8400308.175 | 177.100 | 4 | 10 | 2.740 | 0.017 | 0.039 |  |
| 240 | 14:27:31 | Fix | 4885.887 | -7678.935 | -1264.044 | 5677540.528 | 8400312.577 | 176.996 | 4 | 10 | 2.740 | 0.017 | 0.039 |  |
| 241 | 14:27:48 | Fix | 4884.188 | -7677.273 | -1263.378 | 5677541.628 | 8400314.785 | 176.932 | 4 | 10 | 2.740 | 0.017 | 0.039 |  |
| 242 | 14:28:13 | Fix | 4877.742 | -7670.757 | -1260.957 | 5677545.668 | 8400323.357 | 176.659 | 4 | 9 | 2.563 | 0.009 | 0.018 |  |
| 243 | 14:28:28 | Fix | 4877.805 | -7670.651 | -1260.989 | 5677545.570 | 8400323.429 | 176.696 | 4 | 10 | 2.458 | 0.020 | 0.040 |  |
| 244 | 14:28:42 | Fix | 4877.627 | -7670.475 | -1260.927 | 5677545.680 | 8400323.661 | 176.684 | 4 | 10 | 2.458 | 0.020 | 0.040 |  |
| 245 | 14:28:54 | Fix | 4877.701 | -7670.349 | -1260.953 | 5677545.438 | 8400323.766 | 176.737 | 4 | 10 | 2.458 | 0.020 | 0.040 |  |
| 246 | 14:29:10 | Fix | 4878.005 | -7670.918 | -1261.036 | 5677545.440 | 8400323.156 | 176.711 | 4 | 10 | 2.458 | 0.020 | 0.040 |  |
| 247 | 14:29:20 | Fix | 4878.041 | -7670.753 | -1261.035 | 5677545.223 | 8400323.259 | 176.772 | 4 | 10 | 2.458 | 0.020 | 0.040 |  |
| 248 | 14:29:38 | Fix | 4876.502 | -7669.478 | -1260.337 | 5677546.535 | 8400325.031 | 176.733 | 2 | 11 | 2.448 | 0.013 | 0.029 |  |
| 249 | 14:29:58 | Fix | 4873.483 | -7666.279 | -1258.983 | 5677548.519 | 8400329.183 | 176.811 | 4 | 9 | 2.543 | 0.010 | 0.023 |  |
| 250 | 14:30:12 | Fix | 4869.979 | -7662.731 | -1257.562 | 5677550.779 | 8400333.850 | 176.746 | 4 | 9 | 2.988 | 0.015 | 0.029 |  |
| 251 | 14:30:32 | Fix | 4863.635 | -7656.142 | -1254.969 | 5677554.832 | 8400342.449 | 176.685 | 4 | 10 | 2.727 | 0.015 | 0.029 |  |
| 252 | 14:30:44 | Fix | 4863.756 | -7655.968 | -1255.047 | 5677554.642 | 8400342.559 | 176.736 | 4 | 10 | 2.715 | 0.015 | 0.031 |  |
| 253 | 14:31:03 | Fix | 4861.900 | -7654.023 | -1254.112 | 5677555.932 | 8400345.093 | 176.858 | 3 | 13 | 1.932 | 0.008 | 0.017 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 254 | 14:33:19 | Fix | 4845.240 | -7648.152 | -1242.450 | 5677573.240 | 8400357.249 | 177.728 | 4 | 14 | 1.757 | 0.014 | 0.030 |  |
| 255 | 14:33:31 | Fix | 4844.722 | -7647.580 | -1242.226 | 5677573.568 | 8400357.982 | 177.741 | 4 | 11 | 2.271 | 0.013 | 0.029 |  |
| 256 | 14:33:46 | Fix | 4844.086 | -7646.952 | -1241.962 | 5677573.986 | 8400358.814 | 177.731 | 4 | 12 | 2.308 | 0.015 | 0.035 |  |
| 257 | 14:34:08 | Fix | 4844.081 | -7647.073 | -1241.683 | 5677574.203 | 8400358.709 | 177.915 | 4 | 12 | 2.246 | 0.015 | 0.035 |  |
| 258 | 14:34:26 | Fix | 4845.202 | -7648.308 | -1242.221 | 5677573.460 | 8400357.123 | 177.847 | 4 | 12 | 2.175 | 0.013 | 0.028 |  |
| 259 | 14:35:07 | Fix | 4870.322 | -7674.847 | -1252.794 | 5677557.064 | 8400322.662 | 177.749 | 2 | 6 | 2.683 | 0.034 | 0.045 |  |
| 260 | 14:36:02 | Fix | 4872.452 | -7672.165 | -1255.232 | 5677553.468 | 8400324.239 | 177.725 | 4 | 13 | 2.002 | 0.010 | 0.023 |  |
| 261 | 14:36:15 | Fix | 4868.675 | -7673.338 | -1252.027 | 5677558.639 | 8400324.613 | 177.757 | 4 | 9 | 5.564 | 0.023 | 0.040 |  |
| 262 | 14:36:51 | Fix | 4880.458 | -7684.725 | -1256.735 | 5677550.897 | 8400309.516 | 178.163 | 4 | 9 | 5.304 | 0.023 | 0.041 |  |
| 263 | 14:37:04 | Fix | 4880.833 | -7685.107 | -1256.938 | 5677550.665 | 8400309.068 | 178.129 | 4 | 9 | 5.407 | 0.026 | 0.048 |  |
| 264 | 14:37:17 | Fix | 4881.289 | -7685.611 | -1257.023 | 5677550.377 | 8400308.435 | 178.205 | 4 | 9 | 5.152 | 0.023 | 0.040 |  |
| 265 | 14:37:28 | Fix | 4881.102 | -7685.740 | -1256.881 | 5677550.580 | 8400308.324 | 178.177 | 1 | 9 | 5.152 | 0.023 | 0.041 |  |
| 266 | 14:37:47 | Fix | 4880.206 | -7684.837 | -1256.744 | 5677551.126 | 8400309.415 | 177.983 | 4 | 9 | 5.152 | 0.023 | 0.041 |  |
| 267 | 14:39:02 | Fix | 4897.506 | -7700.861 | -1264.828 | 5677538.715 | 8400287.830 | 177.831 | 4 | 13 | 1.981 | 0.010 | 0.022 |  |
| 268 | 14:39:25 | Fix | 4893.308 | -7698.300 | -1262.971 | 5677542.273 | 8400291.764 | 177.467 | 4 | 5 | 5.914 | 0.015 | 0.031 |  |
| 269 | 14:39:44 | Fix | 4893.247 | -7698.194 | -1262.408 | 5677542.417 | 8400292.001 | 177.896 | 4 | 8 | 6.287 | 0.024 | 0.052 |  |
| 270 | 14:39:53 | Fix | 4893.649 | -7698.557 | -1262.588 | 5677542.094 | 8400291.436 | 177.901 | 1 | 8 | 6.348 | 0.024 | 0.060 |  |
| 271 | 14:40:02 | Fix | 4893.603 | -7698.813 | -1262.276 | 5677542.318 | 8400291.318 | 178.057 | 4 | 5 | 6.367 | 0.029 | 0.092 |  |
| 272 | 14:41:17 | Fix | 4897.419 | -7701.505 | -1264.580 | 5677539.136 | 8400287.277 | 177.819 | 4 | 14 | 1.833 | 0.010 | 0.022 |  |
| 273 | 14:41:33 | Fix | 4896.872 | -7702.534 | -1263.664 | 5677545.772 | 8400284.193 | 177.969 | 4 | 12 | 2.762 | 0.010 | 0.022 |  |
| 274 | 14:41:42 | Fix | 4896.787 | -7702.422 | -1263.646 | 5677545.866 | 8400284.436 | 177.961 | 4 | 12 | 2.136 | 0.010 | 0.024 |  |
| 275 | 14:42:10 | Fix | 4901.653 | -7706.193 | -1266.331 | 5677536.511 | 8400281.271 | 177.775 | 4 | 11 | 4.905 | 0.019 | 0.051 |  |
| 276 | 14:42:26 | Fix | 4902.037 | -7707.225 | -1266.330 | 5677536.561 | 8400280.171 | 177.750 | 4 | 10 | 4.885 | 0.021 | 0.057 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 276 | 14:42:53 | Fix | 4901.572 | -7707.419 | -1266.963 | 5677536.561 | 8400280.171 | 176.941 | 4 | 10 | 4.858 | 0.021 | 0.058 |  |
| 277 | 14:43:09 | Fix | 4904.583 | -7710.529 | -1268.254 | 5677534.594 | 8400276.104 | 176.928 | 4 | 10 | 5.057 | 0.021 | 0.058 |  |
| 278 | 14:43:23 | Fix | 4904.350 | -7710.759 | -1268.006 | 5677534.989 | 8400275.989 | 176.931 | 4 | 9 | 5.370 | 0.020 | 0.054 |  |
| 279 | 14:44:15 | Fix | 4904.513 | -7711.091 | -1268.376 | 5677534.779 | 8400275.585 | 176.658 | 3 | 10 | 5.325 | 0.053 | 0.175 |  |
| 280 | 14:44:29 | Fix | 4904.046 | -7710.503 | -1267.785 | 5677535.215 | 8400276.526 | 176.989 | 3 | 11 | 5.063 | 0.015 | 0.041 |  |
| 281 | 14:44:37 | Fix | 4904.078 | -7710.451 | -1267.692 | 5677535.417 | 8400276.422 | 177.093 | 4 | 10 | 4.427 | 0.077 | 0.093 |  |
| 282 | 14:44:52 | Fix | 4904.749 | -7711.212 | -1267.857 | 5677534.974 | 8400275.500 | 177.169 | 2 | 6 | 4.767 | 0.024 | 0.065 |  |
| 283 | 14:45:57 | Fix | 4907.897 | -7714.011 | -1269.603 | 5677532.493 | 8400271.575 | 176.956 | 4 | 12 | 2.119 | 0.009 | 0.020 |  |
| 284 | 14:46:14 | Fix | 4909.291 | -7712.186 | -1271.207 | 5677529.917 | 8400272.675 | 176.949 | 4 | 11 | 4.305 | 0.015 | 0.035 |  |
| 285 | 14:47:25 | Fix | 4921.975 | -7726.779 | -1276.324 | 5677522.306 | 8400254.179 | 176.786 | 4 | 11 | 2.278 | 0.085 | 0.066 |  |
| 286 | 14:47:50 | Fix | 4926.298 | -7731.173 | -1278.134 | 5677519.487 | 8400248.407 | 176.818 | 4 | 12 | 1.737 | 0.013 | 0.027 |  |
| 287 | 14:48:48 | Fix | 4928.811 | -7733.820 | -1279.175 | 5677517.885 | 8400244.966 | 176.824 | 1 | 12 | 2.037 | 0.023 | 0.047 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN4 | 14:53:38 | Fix | 4913.320 | -7772.453 | -1255.143 | 5677556.219 | 8400215.978 | 177.313 | 4 | 13 | 1.968 | 0.011 | 0.024 |  |

Data: 03-04-2017  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 288 | 13:36:16 | Fix | 4863.490 | -7655.467 | -1254.366 | 5677555.099 | 8400343.133 | 177.232 | 4 | 10 | 2.311 | 0.011 | 0.019 |  |
| 289 | 13:36:38 | Fix | 4861.048 | -7652.909 | -1253.536 | 5677556.547 | 8400346.462 | 177.083 | 4 | 13 | 2.172 | 0.009 | 0.017 |  |
| 290 | 13:36:52 | Fix | 4860.715 | -7652.576 | -1253.594 | 5677556.642 | 8400346.899 | 176.926 | 4 | 12 | 2.102 | 0.008 | 0.018 |  |
| 291 | 13:37:12 | Fix | 4858.505 | -7650.176 | -1252.700 | 5677558.015 | 8400349.990 | 176.921 | 4 | 10 | 3.731 | 0.016 | 0.039 |  |
| 292 | 13:37:32 | Fix | 4856.297 | -7647.974 | -1251.810 | 5677559.446 | 8400352.900 | 176.868 | 4 | 13 | 1.953 | 0.011 | 0.023 |  |
| 293 | 13:38:22 | Fix | 4851.792 | -7643.286 | -1249.969 | 5677562.321 | 8400359.015 | 176.825 | 4 | 12 | 2.822 | 0.010 | 0.022 |  |
| 294 | 13:43:06 | Fix | 4850.657 | -7641.968 | -1249.324 | 5677563.116 | 8400360.683 | 176.989 | 4 | 14 | 1.685 | 0.008 | 0.019 |  |
| 295 | 13:43:31 | Fix | 4850.104 | -7641.257 | -1249.001 | 5677563.487 | 8400361.560 | 177.092 | 4 | 14 | 2.025 | 0.009 | 0.021 |  |
| 296 | 13:43:55 | Fix | 4846.963 | -7638.092 | -1247.877 | 5677565.424 | 8400365.726 | 176.913 | 4 | 10 | 3.327 | 0.015 | 0.030 |  |
| 297 | 13:46:06 | Fix | 4845.044 | -7635.972 | -1247.103 | 5677566.604 | 8400368.444 | 176.916 | 1 | 5 | 1.238 | 0.028 | 0.061 |  |
| 298 | 13:46:54 | Fix | 4838.406 | -7629.424 | -1244.608 | 5677570.817 | 8400377.122 | 176.598 | 4 | 8 | 4.726 | 0.046 | 0.077 |  |
| 299 | 13:47:31 | Fix | 4828.942 | -7618.848 | -1240.206 | 5677576.961 | 8400390.642 | 177.101 | 4 | 8 | 3.113 | 0.012 | 0.032 |  |
| 300 | 13:47:49 | Fix | 4826.670 | -7617.106 | -1239.560 | 5677578.431 | 8400393.153 | 176.709 | 4 | 10 | 3.247 | 0.009 | 0.024 |  |
| 301 | 13:48:12 | Fix | 4824.496 | -7614.740 | -1238.350 | 5677579.987 | 8400396.203 | 176.964 | 4 | 10 | 2.218 | 0.015 | 0.031 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 302 | 13:53:30 | Fix | 4819.317 | -7612.710 | -1235.573 | 5677583.420 | 8400402.860 | 176.622 | 4 | 10 | 1.979 | 0.015 | 0.039 |  |
| 303 | 13:55:30 | Fix | 4859.628 | -7663.936 | -1249.210 | 5677563.764 | 8400336.963 | 176.982 | 4 | 15 | 1.756 | 0.015 | 0.037 |  |
| 304 | 13:55:46 | Fix | 4859.871 | -7664.233 | -1249.299 | 5677563.629 | 8400336.592 | 176.982 | 4 | 14 | 1.687 | 0.008 | 0.021 |  |
| 305 | 13:55:58 | Fix | 4859.812 | -7664.397 | -1249.140 | 5677563.845 | 8400336.518 | 177.033 | 4 | 12 | 2.009 | 0.008 | 0.021 |  |
| 306 | 13:56:15 | Fix | 4859.484 | -7664.048 | -1249.062 | 5677563.985 | 8400336.895 | 176.988 | 4 | 13 | 2.108 | 0.008 | 0.019 |  |

Data: 04-04-2017  
  
Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 307 | 12:44:59 | Fix | 4857.361 | -7736.234 | -1222.914 | 5677604.986 | 8400271.185 | 178.789 | 3 | 11 | 1.832 | 0.013 | 0.017 |  |
| 308 | 12:45:14 | Fix | 4857.275 | -7738.147 | -1224.733 | 5677604.302 | 8400270.114 | 176.861 | 4 | 11 | 2.075 | 0.015 | 0.019 |  |
| 309 | 12:45:35 | Fix | 4859.153 | -7740.350 | -1225.571 | 5677603.138 | 8400267.336 | 176.764 | 4 | 10 | 2.240 | 0.015 | 0.021 |  |
| 310 | 12:46:03 | Fix | 4863.414 | -7744.792 | -1227.115 | 5677600.544 | 8400261.547 | 176.957 | 4 | 11 | 2.786 | 0.015 | 0.023 |  |
| 311 | 12:46:20 | Fix | 4867.859 | -7749.389 | -1228.944 | 5677597.691 | 8400255.539 | 176.996 | 4 | 8 | 3.268 | 0.020 | 0.033 |  |
| 312 | 12:46:37 | Fix | 4870.665 | -7752.140 | -1230.269 | 5677595.735 | 8400251.882 | 176.924 | 4 | 10 | 2.670 | 0.025 | 0.030 |  |
| 313 | 12:46:54 | Fix | 4872.011 | -7750.326 | -1231.942 | 5677593.154 | 8400252.991 | 176.834 | 4 | 9 | 2.259 | 0.020 | 0.026 |  |
| 314 | 12:47:12 | Fix | 4873.354 | -7748.334 | -1233.813 | 5677590.394 | 8400254.262 | 176.631 | 4 | 9 | 2.935 | 0.018 | 0.027 |  |
| 315 | 12:47:35 | Fix | 4872.999 | -7754.686 | -1231.378 | 5677594.185 | 8400248.605 | 176.797 | 4 | 9 | 2.107 | 0.028 | 0.030 |  |
| 316 | 12:48:15 | Fix | 4875.801 | -7757.262 | -1232.470 | 5677592.323 | 8400245.114 | 176.946 | 4 | 9 | 2.592 | 0.024 | 0.046 |  |
| 317 | 12:49:14 | Fix | 4877.920 | -7758.983 | -1233.306 | 5677590.836 | 8400242.682 | 177.106 | 4 | 10 | 2.099 | 0.016 | 0.027 |  |
| 318 | 12:54:10 | Fix | 4875.987 | -7745.497 | -1235.919 | 5677586.300 | 8400255.791 | 177.194 | 4 | 7 | 2.775 | 0.021 | 0.043 |  |
| 319 | 12:54:22 | Fix | 4876.303 | -7745.408 | -1236.216 | 5677585.861 | 8400255.744 | 177.166 | 4 | 8 | 3.258 | 0.021 | 0.042 |  |
| 320 | 12:54:35 | Fix | 4877.315 | -7745.851 | -1236.542 | 5677585.076 | 8400254.931 | 177.391 | 4 | 9 | 5.138 | 0.020 | 0.037 |  |
| 321 | 12:56:30 | Fix | 4855.403 | -7735.020 | -1215.212 | 5677610.605 | 8400273.843 | 183.953 | 4 | 7 | 2.886 | 0.051 | 0.026 |  |
| 322 | 12:56:44 | Fix | 4857.202 | -7741.312 | -1220.818 | 5677607.809 | 8400267.287 | 179.111 | 4 | 8 | 2.512 | 0.034 | 0.026 |  |
| OSN8 | 13:06:44 | Fix | 4913.325 | -7772.440 | -1255.150 | 5677556.206 | 8400215.987 | 177.313 | 4 | 15 | 1.454 | 0.006 | 0.009 |  |
| 323 | 16:22:26 | Fix | 4893.404 | -7774.590 | -1240.039 | 5677580.540 | 8400222.123 | 177.058 | 4 | 9 | 2.695 | 0.024 | 0.043 |  |
| 324 | 16:22:45 | Fix | 4894.125 | -7776.086 | -1240.120 | 5677580.450 | 8400220.463 | 177.052 | 4 | 9 | 2.697 | 0.022 | 0.038 |  |
| 325 | 16:23:01 | Fix | 4896.436 | -7778.600 | -1241.072 | 5677579.005 | 8400217.226 | 177.042 | 4 | 8 | 2.793 | 0.022 | 0.038 |  |
| 326 | 16:23:16 | Fix | 4899.389 | -7780.973 | -1242.074 | 5677577.027 | 8400213.862 | 177.397 | 4 | 10 | 2.574 | 0.014 | 0.022 |  |
| 327 | 16:23:38 | Fix | 4904.093 | -7786.342 | -1244.136 | 5677574.088 | 8400207.040 | 177.220 | 4 | 10 | 1.956 | 0.011 | 0.017 |  |
| 328 | 16:23:51 | Fix | 4904.657 | -7786.957 | -1244.348 | 5677573.748 | 8400206.248 | 177.232 | 4 | 12 | 2.404 | 0.011 | 0.017 |  |

Wysokość anteny: 2.290  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 329 | 16:28:06 | Fix | 4886.418 | -7767.173 | -1237.124 | 5677584.989 | 8400231.742 | 177.075 | 2 | 7 | 2.700 | 0.058 | 0.109 |  |
| 330 | 16:31:49 | Fix | 4879.428 | -7759.953 | -1234.156 | 5677589.537 | 8400241.182 | 177.082 | 4 | 8 | 9.229 |  |  |  |
| 331 | 16:32:11 | Fix | 4881.060 | -7761.617 | -1234.929 | 5677588.418 | 8400238.996 | 177.023 | 4 | 8 | 9.229 | 0.037 | 0.060 |  |
| 332 | 16:32:49 | Fix | 4877.777 | -7759.012 | -1233.548 | 5677590.796 | 8400242.709 | 176.827 | 4 | 8 | 2.312 | 0.014 | 0.016 |  |

Data: 07-04-2017  
  
Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 333 | 12:31:12 | Fix | 4843.477 | -7713.629 | -1222.812 | 5677607.557 | 8400298.119 | 176.275 | 4 | 11 | 2.209 | 0.017 | 0.022 |  |
| 334 | 12:31:27 | Fix | 4843.762 | -7713.257 | -1223.007 | 5677607.114 | 8400298.344 | 176.378 | 4 | 11 | 2.063 | 0.017 | 0.022 |  |
| 335 | 12:31:42 | Fix | 4846.755 | -7716.362 | -1224.298 | 5677605.158 | 8400294.290 | 176.356 | 4 | 9 | 4.783 | 0.020 | 0.021 |  |
| 336 | 12:31:58 | Fix | 4848.992 | -7718.432 | -1225.176 | 5677603.671 | 8400291.490 | 176.467 | 4 | 8 | 3.050 | 0.024 | 0.023 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 337 | 12:32:21 | Fix | 4853.960 | -7723.257 | -1227.206 | 5677600.619 | 8400284.918 | 176.597 | 4 | 6 | 4.836 | 0.017 | 0.025 |  |
| 338 | 12:32:37 | Fix | 4854.260 | -7723.774 | -1227.267 | 5677600.304 | 8400284.468 | 176.598 | 4 | 9 | 4.290 | 0.020 | 0.021 |  |
| 339 | 12:32:50 | Fix | 4854.476 | -7723.599 | -1227.419 | 5677599.999 | 8400284.541 | 176.647 | 4 | 8 | 4.956 | 0.022 | 0.029 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 340 | 12:33:51 | Fix | 4839.807 | -7722.330 | -1217.328 | 5677616.364 | 8400291.662 | 176.337 | 4 | 12 | 1.375 | 0.025 | 0.033 |  |
| 341 | 12:34:29 | Fix | 4837.011 | -7716.255 | -1212.370 | 5677619.534 | 8400298.409 | 180.046 | 3 | 8 | 2.963 | 0.020 | 0.034 |  |
| 342 | 12:35:10 | Fix | 4835.982 | -7718.195 | -1216.265 | 5677618.444 | 8400296.991 | 175.948 | 3 | 9 | 2.142 | 0.020 | 0.028 |  |
| 343 | 12:37:25 | Fix | 4823.637 | -7706.537 | -1210.398 | 5677627.213 | 8400312.668 | 176.187 | 4 | 12 | 1.671 | 0.033 | 0.028 |  |
| 344 | 12:37:42 | Fix | 4820.235 | -7702.774 | -1209.027 | 5677629.302 | 8400317.490 | 176.193 | 4 | 12 | 2.562 | 0.008 | 0.011 |  |
| 345 | 12:38:03 | Fix | 4818.735 | -7701.164 | -1208.431 | 5677630.233 | 8400319.570 | 176.178 | 4 | 10 | 1.722 | 0.019 | 0.038 |  |
| 346 | 12:42:19 | Fix | 4794.016 | -7662.548 | -1201.961 | 5677639.645 | 8400364.909 | 176.213 | 4 | 10 | 3.244 | 0.011 | 0.014 |  |
| 347 | 12:42:35 | Fix | 4794.919 | -7663.503 | -1202.234 | 5677639.133 | 8400363.670 | 176.293 | 4 | 12 | 2.810 | 0.011 | 0.014 |  |
| 348 | 12:42:48 | Fix | 4795.760 | -7664.448 | -1202.633 | 5677638.584 | 8400362.464 | 176.241 | 4 | 10 | 2.411 | 0.012 | 0.016 |  |
| 349 | 12:43:05 | Fix | 4795.932 | -7664.237 | -1202.739 | 5677638.328 | 8400362.588 | 176.308 | 4 | 10 | 2.316 | 0.015 | 0.019 |  |
| 350 | 12:43:22 | Fix | 4795.065 | -7663.321 | -1202.350 | 5677638.899 | 8400363.778 | 176.331 | 4 | 10 | 2.089 | 0.012 | 0.016 |  |
| 351 | 12:43:40 | Fix | 4794.211 | -7662.384 | -1201.999 | 5677639.430 | 8400364.982 | 176.336 | 4 | 10 | 2.089 | 0.012 | 0.016 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN10 | 12:45:42 | Fix | 4825.427 | -7582.647 | -1247.735 | 5677563.269 | 8400425.160 | 177.902 | 4 | 11 | 2.599 | 0.014 | 0.024 |  |
| OSN11 | 10:52:21 | Fix | 4825.422 | -7582.644 | -1247.741 | 5677563.268 | 8400425.166 | 177.896 | 4 | 12 | 1.809 | 0.011 | 0.019 |  |

Data: 22-04-2017  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 352 | 11:10:27 | Fix | 4894.112 | -7805.707 | -1230.658 | 5677595.778 | 8400193.408 | 177.300 | 4 | 13 | 1.698 | 0.016 | 0.019 |  |
| 353 | 11:10:41 | Fix | 4892.731 | -7806.919 | -1229.292 | 5677598.002 | 8400192.862 | 177.275 | 4 | 7 | 3.988 | 0.047 | 0.024 |  |
| 354 | 11:16:30 | Fix | 4902.287 | -7797.330 | -1239.471 | 5677581.780 | 8400197.735 | 177.169 | 4 | 8 | 2.304 | 0.039 | 0.047 |  |
| 355 | 11:16:47 | Fix | 4900.966 | -7800.757 | -1237.390 | 5677585.111 | 8400195.142 | 177.205 | 4 | 8 | 2.889 | 0.025 | 0.032 |  |
| 356 | 11:17:12 | Fix | 4897.586 | -7799.883 | -1236.391 | 5677587.866 | 8400197.300 | 176.239 | 2 | 16 | 4.224 | 0.816 | 0.780 |  |
| 357 | 11:17:23 | Fix | 4895.701 | -7800.411 | -1234.304 | 5677590.684 | 8400197.590 | 176.649 | 4 | 10 | 2.236 | 0.031 | 0.041 |  |
| 358 | 11:17:37 | Fix | 4895.976 | -7800.630 | -1234.306 | 5677590.556 | 8400197.280 | 176.754 | 4 | 8 | 4.750 | 0.032 | 0.040 |  |
| 359 | 11:18:12 | Fix | 4904.874 | -7789.722 | -1243.597 | 5677574.941 | 8400203.635 | 177.278 | 4 | 13 | 1.850 | 0.016 | 0.020 |  |
| 360 | 11:18:27 | Fix | 4905.052 | -7788.804 | -1244.292 | 5677574.088 | 8400204.398 | 177.060 | 4 | 8 | 1.860 | 0.016 | 0.020 |  |
| 361 | 11:19:41 | Fix | 4905.475 | -7787.691 | -1245.142 | 5677572.901 | 8400205.241 | 176.910 | 4 | 13 | 1.704 | 0.010 | 0.013 |  |
| 362 | 11:20:09 | Fix | 4904.061 | -7786.509 | -1244.540 | 5677573.911 | 8400206.894 | 176.846 | 4 | 13 | 1.706 | 0.011 | 0.014 |  |
| 363 | 11:20:34 | Fix | 4907.284 | -7783.009 | -1247.910 | 5677568.395 | 8400208.783 | 176.923 | 4 | 13 | 1.770 | 0.009 | 0.012 |  |
| 364 | 11:21:01 | Fix | 4906.410 | -7785.817 | -1246.409 | 5677570.848 | 8400206.572 | 176.913 | 4 | 13 | 1.709 | 0.009 | 0.011 |  |
| 365 | 11:22:13 | Fix | 4907.829 | -7780.377 | -1249.408 | 5677566.234 | 8400210.962 | 176.703 | 4 | 13 | 1.712 | 0.010 | 0.013 |  |
| 366 | 11:22:29 | Fix | 4907.699 | -7779.830 | -1249.529 | 5677566.077 | 8400211.515 | 176.666 | 4 | 13 | 1.712 | 0.011 | 0.013 |  |
| 367 | 11:22:46 | Fix | 4907.042 | -7779.017 | -1249.215 | 5677566.484 | 8400212.525 | 176.726 | 4 | 12 | 1.845 | 0.013 | 0.017 |  |
| 368 | 11:23:07 | Fix | 4905.544 | -7777.496 | -1248.521 | 5677567.504 | 8400214.525 | 176.767 | 4 | 12 | 1.846 | 0.014 | 0.017 |  |
| 369 | 11:23:24 | Fix | 4904.679 | -7776.522 | -1248.164 | 5677568.034 | 8400215.767 | 176.779 | 4 | 12 | 1.846 | 0.014 | 0.018 |  |
| 370 | 11:23:40 | Fix | 4904.423 | -7775.367 | -1248.120 | 5677567.877 | 8400216.929 | 176.943 | 4 | 12 | 2.105 | 0.014 | 0.018 |  |
| 371 | 11:23:52 | Fix | 4904.440 | -7774.687 | -1248.301 | 5677567.537 | 8400217.544 | 176.975 | 4 | 12 | 1.846 | 0.014 | 0.018 |  |
| 372 | 11:24:07 | Fix | 4904.680 | -7773.570 | -1249.063 | 5677566.534 | 8400218.464 | 176.788 | 4 | 11 | 2.255 | 0.014 | 0.018 |  |
| 373 | 11:24:30 | Fix | 4906.159 | -7771.142 | -1250.851 | 5677563.592 | 8400220.082 | 176.833 | 4 | 12 | 2.124 | 0.014 | 0.018 |  |
| 374 | 11:24:50 | Fix | 4907.512 | -7768.620 | -1252.790 | 5677560.614 | 8400221.833 | 176.710 | 4 | 11 | 2.123 | 0.014 | 0.018 |  |
| 375 | 11:25:11 | Fix | 4908.686 | -7766.245 | -1254.357 | 5677558.043 | 8400223.526 | 176.739 | 4 | 12 | 1.846 | 0.014 | 0.018 |  |
| 376 | 11:25:31 | Fix | 4908.789 | -7764.672 | -1254.979 | 5677557.081 | 8400224.921 | 176.691 | 4 | 12 | 1.846 | 0.014 | 0.018 |  |
| 377 | 11:25:48 | Fix | 4908.200 | -7763.675 | -1254.582 | 5677557.434 | 8400226.075 | 176.900 | 4 | 12 | 1.846 | 0.014 | 0.018 |  |
| 378 | 11:26:04 | Fix | 4905.843 | -7761.022 | -1253.497 | 5677558.950 | 8400229.459 | 177.021 | 4 | 12 | 1.973 | 0.024 | 0.027 |  |
| 379 | 11:27:30 | Fix | 4899.584 | -7754.680 | -1250.766 | 5677563.107 | 8400237.801 | 177.056 | 1 | 15 | 2.378 | 1.897 | 1.712 |  |
| 380 | 11:28:25 | Fix | 4901.589 | -7756.636 | -1251.705 | 5677561.711 | 8400235.197 | 177.012 | 4 | 7 | 3.384 | 0.028 | 0.029 |  |
| 381 | 11:28:48 | Fix | 4899.389 | -7754.689 | -1250.642 | 5677563.327 | 8400237.871 | 177.037 | 4 | 6 | 3.334 | 0.043 | 0.032 |  |
| 382 | 11:30:03 | Fix | 4911.396 | -7760.301 | -1258.172 | 5677551.838 | 8400227.855 | 176.760 | 4 | 10 | 3.249 | 0.016 | 0.018 |  |
| 383 | 11:30:22 | Fix | 4912.567 | -7759.358 | -1258.935 | 5677550.228 | 8400228.245 | 177.070 | 4 | 8 | 9.075 | 0.017 | 0.030 |  |
| 384 | 11:30:48 | Fix | 4913.692 | -7759.415 | -1259.722 | 5677548.952 | 8400227.735 | 177.093 | 4 | 9 | 3.453 | 0.021 | 0.055 |  |
| 385 | 11:31:05 | Fix | 4914.185 | -7759.050 | -1260.324 | 5677548.108 | 8400227.867 | 176.996 | 4 | 9 | 2.354 | 0.022 | 0.055 |  |
| 386 | 11:31:31 | Fix | 4914.804 | -7758.068 | -1261.160 | 5677546.833 | 8400228.512 | 176.939 | 4 | 12 | 1.942 | 0.014 | 0.016 |  |
| 387 | 11:33:26 | Fix | 4923.862 | -7738.731 | -1273.803 | 5677526.331 | 8400242.495 | 176.969 | 4 | 10 | 2.434 | 0.026 | 0.037 |  |
| 388 | 11:33:41 | Fix | 4924.890 | -7737.355 | -1274.911 | 5677524.469 | 8400243.335 | 177.030 | 4 | 9 | 2.843 | 0.021 | 0.032 |  |
| 389 | 11:33:57 | Fix | 4926.306 | -7736.763 | -1276.125 | 5677522.512 | 8400243.300 | 177.045 | 4 | 7 | 3.160 | 0.058 | 0.053 |  |
| 390 | 11:34:10 | Fix | 4927.201 | -7735.625 | -1277.036 | 5677520.944 | 8400243.977 | 177.126 | 4 | 7 | 3.160 | 0.059 | 0.055 |  |
| 391 | 11:34:51 | Fix | 4928.340 | -7735.194 | -1278.328 | 5677519.186 | 8400243.904 | 176.881 | 4 | 12 | 1.697 | 0.017 | 0.022 |  |
| 392 | 11:37:34 | Fix | 4938.700 | -7729.672 | -1287.208 | 5677504.495 | 8400244.741 | 177.277 | 4 | 12 | 2.476 | 0.027 | 0.037 |  |
| 393 | 11:38:13 | Fix | 4943.730 | -7725.738 | -1292.078 | 5677496.615 | 8400246.289 | 177.334 | 4 | 9 | 3.266 | 0.018 | 0.023 |  |
| 394 | 11:38:31 | Fix | 4945.305 | -7726.060 | -1293.349 | 5677494.799 | 8400245.353 | 177.177 | 4 | 14 | 1.782 | 0.011 | 0.015 |  |
| 395 | 11:38:56 | Fix | 4949.525 | -7723.063 | -1297.581 | 5677488.193 | 8400246.372 | 177.038 | 4 | 13 | 1.518 | 0.009 | 0.012 |  |
| 396 | 11:39:18 | Fix | 4953.480 | -7719.823 | -1301.670 | 5677481.788 | 8400247.721 | 176.916 | 4 | 13 | 1.842 | 0.009 | 0.011 |  |
| 397 | 11:39:41 | Fix | 4956.126 | -7717.623 | -1304.242 | 5677477.595 | 8400248.656 | 176.970 | 4 | 11 | 1.770 | 0.011 | 0.014 |  |
| 398 | 11:39:59 | Fix | 4958.128 | -7715.859 | -1306.256 | 5677474.349 | 8400249.454 | 176.982 | 4 | 13 | 2.024 | 0.011 | 0.014 |  |
| 399 | 11:40:14 | Fix | 4959.796 | -7714.361 | -1307.701 | 5677471.781 | 8400250.146 | 177.180 | 4 | 11 | 2.494 | 0.014 | 0.016 |  |
| 400 | 11:40:40 | Fix | 4963.198 | -7711.443 | -1311.316 | 5677466.169 | 8400251.427 | 177.030 | 4 | 11 | 2.328 | 0.017 | 0.023 |  |
| 401 | 11:41:07 | Fix | 4964.354 | -7710.035 | -1312.302 | 5677464.282 | 8400252.247 | 177.269 | 4 | 10 | 2.151 | 0.019 | 0.025 |  |
| 402 | 11:41:23 | Fix | 4964.634 | -7709.756 | -1312.579 | 5677463.820 | 8400252.388 | 177.282 | 4 | 11 | 1.981 | 0.025 | 0.033 |  |
| 403 | 11:41:41 | Fix | 4965.258 | -7709.700 | -1313.233 | 5677462.948 | 8400252.183 | 177.147 | 4 | 12 | 1.612 | 0.019 | 0.026 |  |
| 404 | 11:41:55 | Fix | 4966.033 | -7709.296 | -1313.915 | 5677461.841 | 8400252.237 | 177.160 | 4 | 10 | 2.670 | 0.025 | 0.035 |  |
| 405 | 11:42:18 | Fix | 4967.850 | -7707.244 | -1315.881 | 5677458.665 | 8400253.373 | 177.171 | 4 | 9 | 3.457 | 0.031 | 0.038 |  |
| 406 | 11:42:32 | Fix | 4967.913 | -7706.977 | -1315.947 | 5677458.494 | 8400253.592 | 177.221 | 4 | 10 | 1.877 | 0.023 | 0.028 |  |
| 407 | 11:43:10 | Fix | 4964.252 | -7702.024 | -1314.519 | 5677460.426 | 8400259.609 | 177.408 | 4 | 8 | 3.391 | 0.086 | 0.078 |  |
| 408 | 11:43:31 | Fix | 4964.056 | -7701.133 | -1314.519 | 5677460.283 | 8400260.505 | 177.509 | 4 | 9 | 3.164 | 0.022 | 0.030 |  |
| 409 | 11:44:12 | Fix | 4963.685 | -7699.006 | -1314.689 | 5677459.766 | 8400262.601 | 177.673 | 4 | 9 | 2.159 | 0.030 | 0.038 |  |
| 410 | 11:46:46 | Fix | 4960.283 | -7698.129 | -1312.601 | 5677463.218 | 8400264.784 | 177.545 | 4 | 13 | 2.676 | 0.018 | 0.022 |  |
| 411 | 11:46:58 | Fix | 4961.387 | -7698.089 | -1313.546 | 5677461.827 | 8400264.371 | 177.456 | 4 | 11 | 1.859 | 0.020 | 0.025 |  |
| 412 | 11:47:09 | Fix | 4962.398 | -7697.800 | -1314.334 | 5677460.522 | 8400264.225 | 177.496 | 3 | 6 | 2.885 | 0.028 | 0.033 |  |
| OSN16 | 11:50:12 | Fix | 4913.320 | -7772.442 | -1255.172 | 5677556.197 | 8400215.988 | 177.293 | 30 | 16 | 1.324 | 0.009 | 0.013 |  |
| OSN17 | 11:51:44 | Fix | 4887.261 | -7792.959 | -1229.714 | 5677597.207 | 8400207.841 | 177.139 | 4 | 7 | 5.239 | 0.094 | 0.049 |  |

Data: 27-04-2017  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN18 | 09:47:35 | Fix | 4913.330 | -7772.450 | -1255.157 | 5677556.202 | 8400215.977 | 177.309 | 30 | 14 | 1.480 | 0.006 | 0.010 |  |
| 413 | 09:49:34 | Fix | 4894.724 | -7809.176 | -1230.160 | 5677596.755 | 8400189.989 | 177.208 | 4 | 10 | 2.620 | 0.012 | 0.019 |  |
| 414 | 09:50:07 | Fix | 4893.213 | -7807.495 | -1229.552 | 5677597.679 | 8400192.140 | 177.212 | 4 | 11 | 2.442 | 0.011 | 0.020 |  |
| 415 | 09:50:30 | Fix | 4896.672 | -7811.290 | -1230.856 | 5677595.601 | 8400187.266 | 177.283 | 4 | 10 | 3.054 | 0.021 | 0.023 |  |
| 416 | 09:50:44 | Fix | 4897.279 | -7812.204 | -1230.831 | 5677595.474 | 8400186.186 | 177.434 | 4 | 10 | 2.915 | 0.016 | 0.016 |  |
| 417 | 09:51:03 | Fix | 4897.577 | -7813.967 | -1230.920 | 5677595.765 | 8400184.449 | 177.113 | 4 | 12 | 1.814 | 0.010 | 0.016 |  |
| 418 | 09:51:21 | Fix | 4897.297 | -7814.947 | -1230.357 | 5677596.628 | 8400183.669 | 177.155 | 4 | 12 | 1.800 | 0.008 | 0.015 |  |
| 419 | 09:51:45 | Fix | 4895.569 | -7819.940 | -1227.476 | 5677601.247 | 8400179.810 | 177.200 | 4 | 9 | 3.849 | 0.015 | 0.017 |  |
| 420 | 09:52:01 | Fix | 4894.998 | -7821.800 | -1226.500 | 5677602.854 | 8400178.343 | 177.185 | 4 | 10 | 2.364 | 0.014 | 0.015 |  |
| 421 | 09:52:21 | Fix | 4894.628 | -7822.992 | -1225.718 | 5677603.985 | 8400177.406 | 177.294 | 4 | 7 | 3.994 | 0.026 | 0.025 |  |
| 422 | 09:53:38 | Fix | 4892.863 | -7827.902 | -1222.598 | 5677608.754 | 8400173.641 | 177.525 | 4 | 7 | 5.692 | 0.026 | 0.032 |  |
| 423 | 09:53:51 | Fix | 4892.513 | -7828.167 | -1222.399 | 5677609.211 | 8400173.540 | 177.414 | 4 | 6 | 5.316 | 0.021 | 0.020 |  |

Wysokość anteny: 2.280  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 424 | 10:00:26 | Fix | 4891.934 | -7827.799 | -1221.865 | 5677609.842 | 8400174.114 | 177.584 | 4 | 5 | 6.674 | 0.036 | 0.038 |  |
| 425 | 10:00:37 | Fix | 4891.593 | -7827.333 | -1221.381 | 5677610.240 | 8400174.683 | 177.876 | 4 | 6 | 6.823 | 0.052 | 0.064 |  |
| 426 | 10:00:44 | Fix | 4891.646 | -7827.333 | -1221.351 | 5677610.221 | 8400174.662 | 177.930 | 4 | 6 | 6.316 | 0.052 | 0.065 |  |
| 427 | 10:00:52 | Fix | 4891.653 | -7827.324 | -1221.353 | 5677610.212 | 8400174.667 | 177.935 | 4 | 6 | 6.316 | 0.051 | 0.064 |  |
| 428 | 10:01:06 | Fix | 4891.848 | -7828.572 | -1221.199 | 5677610.565 | 8400173.447 | 177.868 | 4 | 5 | 7.378 | 0.059 | 0.070 |  |
| 429 | 10:02:47 | Fix | 4890.475 | -7832.651 | -1219.322 | 5677614.012 | 8400170.274 | 177.556 | 4 | 10 | 2.068 | 0.053 | 0.025 |  |
| 430 | 10:03:26 | Fix | 4889.232 | -7835.688 | -1217.412 | 5677617.057 | 8400168.005 | 177.597 | 4 | 10 | 2.750 | 0.008 | 0.016 |  |
| 431 | 10:03:42 | Fix | 4888.409 | -7837.131 | -1216.285 | 5677618.806 | 8400167.022 | 177.652 | 4 | 10 | 2.093 | 0.009 | 0.015 |  |
| 432 | 10:04:10 | Fix | 4887.138 | -7837.839 | -1215.402 | 5677620.489 | 8400166.890 | 177.436 | 4 | 11 | 1.871 | 0.008 | 0.017 |  |
| 433 | 10:04:27 | Fix | 4886.474 | -7838.462 | -1214.767 | 5677621.816 | 8400168.339 | 177.397 | 2 | 12 | 1.773 | 0.011 | 0.017 |  |
| 434 | 10:04:55 | Fix | 4885.889 | -7837.333 | -1214.321 | 5677621.895 | 8400167.864 | 177.677 | 4 | 10 | 2.207 | 0.008 | 0.017 |  |
| 435 | 10:05:18 | Fix | 4886.408 | -7837.342 | -1214.930 | 5677621.147 | 8400167.642 | 177.501 | 4 | 11 | 1.766 | 0.009 | 0.017 |  |
| 436 | 10:06:18 | Fix | 4881.512 | -7844.077 | -1209.093 | 5677630.425 | 8400163.481 | 177.601 | 4 | 8 | 3.263 | 0.010 | 0.028 |  |
| 437 | 10:06:41 | Fix | 4881.195 | -7844.401 | -1208.860 | 5677630.899 | 8400163.312 | 177.522 | 4 | 7 | 2.484 | 0.009 | 0.018 |  |
| 438 | 10:06:52 | Fix | 4881.530 | -7844.887 | -1208.880 | 5677630.802 | 8400162.734 | 177.582 | 4 | 6 | 2.551 | 0.012 | 0.020 |  |
| 439 | 10:07:07 | Fix | 4883.389 | -7846.585 | -1209.621 | 5677629.552 | 8400160.427 | 177.672 | 4 | 5 | 4.370 | 0.027 | 0.054 |  |
| 440 | 10:07:36 | Fix | 4884.785 | -7848.013 | -1210.181 | 5677628.661 | 8400158.555 | 177.700 | 4 | 8 | 2.838 | 0.016 | 0.027 |  |
| 441 | 10:07:54 | Fix | 4885.320 | -7848.864 | -1210.409 | 5677628.406 | 8400157.559 | 177.626 | 4 | 12 | 2.003 | 0.009 | 0.020 |  |
| 442 | 10:08:09 | Fix | 4885.795 | -7849.857 | -1210.500 | 5677628.327 | 8400156.458 | 177.591 | 4 | 11 | 1.823 | 0.012 | 0.021 |  |
| 443 | 10:08:25 | Fix | 4885.918 | -7850.782 | -1210.307 | 5677628.653 | 8400155.562 | 177.590 | 4 | 11 | 1.825 | 0.014 | 0.022 |  |

Wysokość anteny: 3.080  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 444 | 10:09:28 | Fix | 4885.271 | -7852.336 | -1209.474 | 5677630.128 | 8400154.404 | 177.493 | 4 | 9 | 2.254 | 0.020 | 0.031 |  |
| 445 | 10:09:48 | Fix | 4882.908 | -7858.319 | -1206.039 | 5677635.860 | 8400149.897 | 177.366 | 4 | 9 | 2.528 | 0.024 | 0.028 |  |
| 446 | 10:10:06 | Fix | 4881.480 | -7862.570 | -1203.475 | 5677639.830 | 8400146.596 | 177.517 | 4 | 12 | 1.715 | 0.010 | 0.022 |  |
| 447 | 10:10:35 | Fix | 4879.497 | -7868.423 | -1200.301 | 5677645.086 | 8400142.054 | 177.437 | 4 | 15 | 1.495 | 0.011 | 0.022 |  |
| 448 | 10:10:52 | Fix | 4878.927 | -7870.703 | -1198.997 | 5677647.032 | 8400140.205 | 177.576 | 4 | 14 | 1.801 | 0.011 | 0.020 |  |
| 449 | 10:11:06 | Fix | 4879.209 | -7871.183 | -1199.499 | 5677646.669 | 8400139.646 | 177.232 | 4 | 14 | 1.637 | 0.012 | 0.021 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 450 | 10:13:14 | Fix | 4884.549 | -7874.275 | -1201.297 | 5677642.720 | 8400134.664 | 178.175 | 4 | 17 | 1.371 | 0.008 | 0.016 |  |
| 451 | 10:16:23 | Fix | 4884.712 | -7874.655 | -1201.587 | 5677642.543 | 8400134.247 | 177.952 | 4 | 15 | 1.459 | 0.006 | 0.013 |  |
| 452 | 10:16:38 | Fix | 4885.284 | -7875.492 | -1202.013 | 5677642.134 | 8400133.246 | 177.750 | 4 | 15 | 1.474 | 0.010 | 0.021 |  |
| 453 | 10:16:57 | Fix | 4887.344 | -7877.127 | -1203.059 | 5677640.531 | 8400130.914 | 177.732 | 4 | 13 | 1.847 | 0.008 | 0.019 |  |
| 454 | 10:17:13 | Fix | 4888.105 | -7877.534 | -1203.197 | 5677640.031 | 8400130.237 | 177.966 | 4 | 12 | 1.944 | 0.009 | 0.022 |  |
| 455 | 10:18:11 | Fix | 4888.088 | -7878.254 | -1203.250 | 5677640.238 | 8400129.582 | 177.742 | 4 | 12 | 2.758 | 0.009 | 0.024 |  |
| 456 | 10:18:26 | Fix | 4887.781 | -7879.860 | -1202.537 | 5677641.412 | 8400128.240 | 177.734 | 4 | 10 | 3.467 | 0.009 | 0.027 |  |
| 457 | 10:18:39 | Fix | 4888.824 | -7880.969 | -1202.775 | 5677640.872 | 8400126.804 | 177.886 | 4 | 9 | 3.565 | 0.015 | 0.044 |  |
| OSN19 | 10:22:22 | Fix | 4861.939 | -7935.724 | -1165.755 | 5677700.568 | 8400087.715 | 178.037 | 30 | 16 | 1.408 | 0.012 | 0.026 |  |

Data: 11-05-2017  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3696098.959 | 1536608.679 | 4949334.527 |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 458 | 11:20:34 | Fix | -13.570 | -11.151 | 12.416 | 5677525.650 | 8400421.186 | 177.335 | 4 | 12 | 1.556 | 0.011 | 0.015 |  |
| 459 | 11:20:52 | Fix | -15.527 | -9.169 | 13.096 | 5677526.842 | 8400423.791 | 177.210 | 4 | 11 | 1.932 | 0.015 | 0.020 |  |
| 460 | 11:21:19 | Fix | -22.792 | -1.305 | 16.126 | 5677531.419 | 8400433.932 | 177.263 | 4 | 11 | 1.467 | 0.009 | 0.011 |  |
| 461 | 11:21:36 | Fix | -25.029 | 1.056 | 17.074 | 5677532.858 | 8400436.999 | 177.276 | 4 | 14 | 1.483 | 0.011 | 0.014 |  |
| 462 | 11:21:52 | Fix | -26.710 | 2.288 | 17.949 | 5677534.212 | 8400438.809 | 177.282 | 4 | 15 | 1.232 | 0.009 | 0.011 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 463 | 11:22:19 | Fix | -28.263 | 2.251 | 19.406 | 5677536.242 | 8400439.410 | 177.511 | 4 | 14 | 1.353 | 0.010 | 0.012 |  |
| 464 | 11:22:34 | Fix | -28.888 | 1.903 | 20.040 | 5677537.195 | 8400439.347 | 177.560 | 4 | 13 | 1.380 | 0.009 | 0.012 |  |
| 465 | 11:22:50 | Fix | -29.449 | 1.253 | 20.671 | 5677538.196 | 8400438.981 | 177.572 | 4 | 14 | 1.326 | 0.011 | 0.014 |  |
| 466 | 11:23:16 | Fix | -30.088 | 0.239 | 21.394 | 5677539.425 | 8400438.314 | 177.522 | 4 | 10 | 2.809 | 0.010 | 0.015 |  |
| 467 | 11:23:35 | Fix | -30.229 | 0.088 | 21.619 | 5677539.695 | 8400438.123 | 177.580 | 4 | 10 | 2.258 | 0.014 | 0.021 |  |
| 468 | 11:24:01 | Fix | -28.721 | 2.545 | 19.606 | 5677536.600 | 8400439.864 | 177.473 | 4 | 12 | 1.466 | 0.010 | 0.015 |  |
| 469 | 11:24:41 | Fix | -24.634 | 0.766 | 17.932 | 5677533.206 | 8400436.586 | 178.103 | 4 | 12 | 1.400 | 0.010 | 0.013 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 470 | 11:25:48 | Fix | -22.901 | 10.889 | 12.573 | 5677525.405 | 8400445.119 | 177.361 | 4 | 14 | 1.423 | 0.009 | 0.012 |  |

Wysokość anteny: 2.140  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 471 | 11:26:31 | Fix | -20.957 | 13.383 | 10.925 | 5677522.198 | 8400446.614 | 177.801 | 4 | 16 | 1.262 | 0.010 | 0.012 |  |
| 472 | 11:26:49 | Fix | -19.909 | 14.814 | 9.772 | 5677520.275 | 8400447.495 | 177.852 | 4 | 15 | 1.575 | 0.010 | 0.013 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 473 | 11:27:39 | Fix | -9.895 | 29.118 | -2.098 | 5677501.173 | 8400456.491 | 177.829 | 4 | 17 | 1.289 | 0.009 | 0.012 |  |
| 474 | 11:27:50 | Fix | -10.048 | 29.362 | -1.971 | 5677501.285 | 8400456.777 | 177.897 | 4 | 17 | 1.218 | 0.009 | 0.012 |  |
| 475 | 11:28:14 | Fix | -4.299 | 36.893 | -8.440 | 5677490.751 | 8400461.321 | 177.989 | 4 | 16 | 1.317 | 0.009 | 0.012 |  |
| 476 | 11:28:29 | Fix | -3.380 | 38.209 | -9.554 | 5677488.981 | 8400462.149 | 177.968 | 4 | 17 | 1.294 | 0.010 | 0.013 |  |
| 477 | 11:28:42 | Fix | -3.122 | 38.420 | -9.783 | 5677488.587 | 8400462.237 | 177.990 | 4 | 17 | 1.220 | 0.009 | 0.012 |  |
| 478 | 11:28:55 | Fix | -2.704 | 38.131 | -9.956 | 5677488.272 | 8400461.804 | 178.027 | 4 | 17 | 1.220 | 0.009 | 0.011 |  |
| 479 | 11:29:10 | Fix | -2.204 | 38.240 | -10.376 | 5677487.618 | 8400461.700 | 178.016 | 4 | 16 | 1.325 | 0.009 | 0.012 |  |
| 480 | 11:29:26 | Fix | -0.738 | 40.375 | -12.142 | 5677484.792 | 8400463.054 | 178.000 | 4 | 15 | 1.366 | 0.009 | 0.012 |  |
| 481 | 11:29:46 | Fix | 2.825 | 45.629 | -16.181 | 5677478.058 | 8400466.408 | 178.174 | 4 | 13 | 1.659 | 0.010 | 0.014 |  |
| 482 | 11:30:01 | Fix | 4.948 | 47.308 | -18.378 | 5677474.638 | 8400467.076 | 178.093 | 4 | 12 | 1.513 | 0.011 | 0.016 |  |
| 483 | 11:30:17 | Fix | 6.462 | 47.843 | -19.721 | 5677472.549 | 8400466.948 | 178.050 | 4 | 11 | 1.569 | 0.013 | 0.020 |  |
| 484 | 11:30:33 | Fix | 6.955 | 47.550 | -20.095 | 5677472.057 | 8400466.479 | 177.973 | 4 | 9 | 2.282 | 0.016 | 0.023 |  |
| 485 | 11:30:52 | Fix | 8.059 | 46.749 | -20.579 | 5677471.222 | 8400465.299 | 178.042 | 4 | 10 | 2.172 | 0.015 | 0.022 |  |
| 486 | 11:31:06 | Fix | 9.100 | 45.681 | -21.044 | 5677470.527 | 8400463.900 | 178.025 | 4 | 10 | 2.474 | 0.014 | 0.021 |  |
| 487 | 11:31:21 | Fix | 10.466 | 44.411 | -21.477 | 5677469.686 | 8400462.186 | 178.171 | 4 | 9 | 3.381 | 0.015 | 0.023 |  |
| 488 | 11:31:36 | Fix | 11.457 | 43.373 | -21.907 | 5677469.039 | 8400460.835 | 178.159 | 4 | 9 | 3.506 | 0.015 | 0.023 |  |
| 489 | 11:31:58 | Fix | 11.975 | 43.005 | -22.061 | 5677468.691 | 8400460.289 | 178.251 | 4 | 9 | 2.274 | 0.010 | 0.014 |  |
| 490 | 11:32:13 | Fix | 12.342 | 43.048 | -22.332 | 5677468.246 | 8400460.179 | 178.262 | 4 | 9 | 2.275 | 0.010 | 0.014 |  |
| OSN20 | 11:36:19 | Fix | -42.130 | -19.536 | 35.816 | 5677563.299 | 8400425.137 | 177.047 | 4 | 10 | 2.755 | 0.016 | 0.026 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN21 | 11:36:56 | Fix | -41.665 | -19.343 | 36.434 | 5677556.213 | 8400215.982 | 177.844 | 4 | 10 | 2.035 | 0.015 | 0.023 |  |
| 491 | 11:38:00 | Fix | -41.745 | -22.985 | 37.556 | 5677565.213 | 8400421.842 | 177.797 | 4 | 9 | 3.032 | 0.019 | 0.032 |  |
| 492 | 11:38:11 | Fix | -41.826 | -23.170 | 37.725 | 5677565.435 | 8400421.707 | 177.837 | 4 | 8 | 3.164 | 0.022 | 0.037 |  |
| 493 | 11:38:21 | Fix | -41.960 | -23.381 | 37.842 | 5677565.704 | 8400421.597 | 177.801 | 4 | 7 | 4.035 | 0.023 | 0.038 |  |
| 494 | 11:38:30 | Fix | -41.893 | -23.477 | 37.881 | 5677565.582 | 8400421.337 | 177.846 | 4 | 8 | 2.518 | 0.026 | 0.042 |  |
| 495 | 11:38:40 | Fix | -41.494 | -23.099 | 37.440 | 5677565.074 | 8400421.603 | 177.824 | 4 | 6 | 4.437 | 0.038 | 0.044 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 496 | 11:39:33 | Fix | -42.454 | -23.275 | 37.171 | 5677565.569 | 8400421.853 | 177.018 | 4 | 9 | 3.040 | 0.027 | 0.045 |  |
| 497 | 11:39:44 | Fix | -43.987 | -25.461 | 38.887 | 5677568.430 | 8400420.478 | 176.942 | 4 | 8 | 3.352 | 0.026 | 0.043 |  |
| 498 | 11:40:01 | Fix | -46.269 | -28.771 | 41.608 | 5677572.809 | 8400418.382 | 176.949 | 4 | 8 | 4.787 | 0.036 | 0.059 |  |
| 499 | 11:40:22 | Fix | -49.461 | -33.609 | 45.465 | 5677579.031 | 8400415.261 | 176.947 | 4 | 9 | 3.080 | 0.028 | 0.047 |  |
| 500 | 11:40:43 | Fix | -51.617 | -36.603 | 47.936 | 5677583.064 | 8400413.401 | 176.907 | 4 | 10 | 2.935 | 0.026 | 0.044 |  |
| 501 | 11:40:58 | Fix | -53.260 | -36.056 | 48.933 | 5677584.685 | 8400414.569 | 176.865 | 4 | 11 | 2.945 | 0.013 | 0.019 |  |
| 502 | 11:41:20 | Fix | -54.183 | -37.290 | 49.999 | 5677586.401 | 8400413.817 | 176.866 | 4 | 15 | 1.533 | 0.009 | 0.012 |  |
| 503 | 11:41:33 | Fix | -54.596 | -37.640 | 50.403 | 5677587.059 | 8400413.665 | 176.858 | 4 | 15 | 1.586 | 0.009 | 0.012 |  |
| 504 | 11:41:45 | Fix | -54.554 | -38.985 | 50.723 | 5677587.657 | 8400412.418 | 176.809 | 4 | 12 | 1.713 | 0.009 | 0.012 |  |
| 505 | 11:41:58 | Fix | -54.298 | -39.706 | 50.730 | 5677587.707 | 8400411.655 | 176.789 | 4 | 12 | 1.779 | 0.009 | 0.012 |  |
| 506 | 11:42:10 | Fix | -53.652 | -40.459 | 50.450 | 5677587.311 | 8400410.703 | 176.763 | 4 | 12 | 1.907 | 0.009 | 0.012 |  |
| 507 | 11:42:22 | Fix | -52.291 | -41.827 | 49.758 | 5677586.342 | 8400408.899 | 176.682 | 4 | 8 | 3.392 | 0.012 | 0.017 |  |
| 508 | 11:43:40 | Fix | -40.529 | -53.349 | 44.766 | 5677578.492 | 8400393.590 | 176.820 | 4 | 11 | 1.941 | 0.022 | 0.025 |  |
| 509 | 11:43:54 | Fix | -41.098 | -52.705 | 45.079 | 5677578.888 | 8400394.410 | 176.890 | 4 | 9 | 2.273 | 0.014 | 0.017 |  |
| 510 | 11:44:07 | Fix | -40.961 | -52.493 | 45.006 | 5677578.678 | 8400394.549 | 176.964 | 4 | 10 | 2.150 | 0.015 | 0.019 |  |
| 511 | 11:44:21 | Fix | -40.364 | -53.188 | 44.679 | 5677578.268 | 8400393.670 | 176.886 | 4 | 12 | 2.027 | 0.012 | 0.014 |  |
| 512 | 11:44:46 | Fix | -40.818 | -53.051 | 44.895 | 5677578.684 | 8400393.979 | 176.825 | 4 | 10 | 2.284 | 0.011 | 0.014 |  |
| 513 | 11:44:57 | Fix | -41.024 | -53.267 | 45.014 | 5677578.974 | 8400393.864 | 176.746 | 4 | 14 | 2.228 | 0.014 | 0.019 |  |
| 514 | 11:45:23 | Fix | -28.622 | -65.496 | 39.629 | 5677570.690 | 8400377.649 | 176.780 | 4 | 7 | 5.226 | 0.032 | 0.027 |  |
| 515 | 11:45:32 | Fix | -28.615 | -65.383 | 39.640 | 5677570.452 | 8400377.744 | 176.819 | 4 | 7 | 3.393 | 0.040 | 0.032 |  |
| 516 | 11:45:42 | Fix | -28.353 | -65.899 | 39.410 | 5677570.520 | 8400377.201 | 176.667 | 2 | 6 | 1.486 | 0.047 | 0.040 |  |
| 517 | 11:45:50 | Fix | -28.107 | -66.161 | 39.443 | 5677570.373 | 8400376.830 | 176.772 | 4 | 8 | 4.704 | 0.039 | 0.034 |  |
| 518 | 11:45:59 | Fix | -27.974 | -66.081 | 39.430 | 5677570.118 | 8400376.917 | 176.858 | 4 | 9 | 3.140 | 0.030 | 0.027 |  |
| 519 | 11:46:09 | Fix | -28.595 | -66.002 | 39.707 | 5677570.836 | 8400377.172 | 176.734 | 1 | 8 | 4.182 | 0.046 | 0.043 |  |
| 520 | 11:46:54 | Fix | -21.949 | -85.355 | 41.068 | 5677573.092 | 8400356.791 | 176.985 | 4 | 14 | 1.637 | 0.020 | 0.028 |  |
| 521 | 11:47:10 | Fix | -21.355 | -85.989 | 40.819 | 5677572.714 | 8400355.969 | 176.981 | 4 | 13 | 1.715 | 0.020 | 0.028 |  |
| 522 | 11:47:23 | Fix | -21.462 | -86.168 | 40.947 | 5677572.927 | 8400355.850 | 176.976 | 4 | 14 | 1.625 | 0.020 | 0.028 |  |
| 523 | 11:47:44 | Fix | -22.093 | -85.499 | 41.229 | 5677573.340 | 8400356.717 | 176.992 | 4 | 14 | 1.724 | 0.021 | 0.029 |  |
| 524 | 11:48:14 | Fix | -21.465 | -85.444 | 40.717 | 5677573.175 | 8400356.345 | 176.969 | 4 | 14 | 1.630 | 0.021 | 0.029 |  |
| 525 | 11:48:33 | Fix | -16.384 | -78.374 | 34.811 | 5677562.955 | 8400360.979 | 177.003 | 4 | 13 | 1.716 | 0.023 | 0.031 |  |
| 526 | 11:48:44 | Fix | -16.172 | -78.617 | 34.718 | 5677562.806 | 8400360.601 | 176.995 | 4 | 13 | 1.958 | 0.026 | 0.031 |  |
| 527 | 11:48:57 | Fix | -15.972 | -78.463 | 34.609 | 5677562.586 | 8400360.687 | 177.062 | 4 | 12 | 2.273 | 0.024 | 0.032 |  |
| 528 | 11:49:09 | Fix | -16.241 | -78.138 | 34.705 | 5677562.753 | 8400361.064 | 177.061 | 4 | 14 | 1.813 | 0.022 | 0.031 |  |
| 529 | 11:50:54 | Fix | -56.681 | -44.708 | 53.702 | 5677583.292 | 8400403.449 | 176.524 | 4 | 10 | 2.508 | 0.011 | 0.018 |  |
| 530 | 11:51:06 | Fix | -55.902 | -45.492 | 53.349 | 5677582.908 | 8400402.598 | 176.512 | 4 | 10 | 2.509 | 0.012 | 0.018 |  |
| 531 | 11:51:17 | Fix | -55.716 | -45.192 | 53.145 | 5677582.634 | 8400402.731 | 176.533 | 4 | 10 | 2.509 | 0.011 | 0.018 |  |
| 532 | 11:51:29 | Fix | -56.471 | -44.456 | 53.504 | 5677583.039 | 8400403.544 | 176.553 | 4 | 10 | 2.509 | 0.011 | 0.018 |  |
| 533 | 11:52:37 | Fix | -3.283 | -92.316 | 29.302 | 5677554.627 | 8400342.886 | 176.931 | 4 | 10 | 1.927 | 0.042 | 0.054 |  |
| 534 | 11:52:49 | Fix | -2.723 | -92.888 | 29.030 | 5677554.231 | 8400342.057 | 176.906 | 4 | 8 | 4.412 | 0.041 | 0.036 |  |
| 535 | 11:52:59 | Fix | -2.604 | -92.776 | 28.906 | 5677554.003 | 8400342.168 | 176.904 | 4 | 8 | 4.844 | 0.043 | 0.037 |  |
| 536 | 11:53:24 | Fix | -2.907 | -92.081 | 29.556 | 5677554.405 | 8400342.983 | 177.403 | 4 | 9 | 3.449 | 0.030 | 0.025 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 537 | 11:56:25 | Fix | 29.347 | -125.493 | 16.652 | 5677533.994 | 8400299.266 | 177.960 | 4 | 8 | 6.017 | 0.048 | 0.033 |  |
| 538 | 11:56:35 | Fix | 29.367 | -125.316 | 16.646 | 5677533.754 | 8400299.407 | 178.010 | 4 | 8 | 4.475 | 0.070 | 0.045 |  |
| 539 | 11:57:04 | Fix | 28.072 | -125.731 | 17.583 | 5677533.174 | 8400298.340 | 177.892 | 1 | 10 | 2.743 | 0.019 | 0.026 |  |
| 540 | 11:57:14 | Fix | 28.382 | -126.110 | 17.440 | 5677533.417 | 8400298.218 | 177.869 | 4 | 10 | 2.814 | 0.015 | 0.024 |  |
| 541 | 11:57:24 | Fix | 28.146 | -126.022 | 17.600 | 5677533.794 | 8400298.918 | 177.878 | 4 | 9 | 2.611 | 0.014 | 0.022 |  |
| 542 | 11:57:44 | Fix | 29.307 | -126.050 | 16.742 | 5677533.972 | 8400298.835 | 177.874 | 3 | 7 | 2.986 | 0.021 | 0.041 |  |
| 543 | 11:58:17 | Fix | 44.212 | -140.444 | 9.924 | 5677523.935 | 8400279.556 | 177.715 | 4 | 5 | 8.437 | 0.031 | 0.030 |  |
| OSN22 | 12:01:19 | Fix | 46.272 | -209.100 | 29.044 | 5677556.213 | 8400215.982 | 177.305 | 30 | 15 | 1.418 | 0.011 | 0.016 |  |
| 544 | 12:03:21 | Fix | 22.795 | -262.772 | 64.262 | 5677612.009 | 8400176.510 | 178.283 | 4 | 9 | 3.255 | 0.029 | 0.038 |  |
| 545 | 12:03:33 | Fix | 21.938 | -261.884 | 64.434 | 5677612.445 | 8400177.667 | 178.135 | 4 | 6 | 6.492 | 0.044 | 0.074 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1000POM | 12:26:44 | Fix | 3.970 | -190.122 | 55.185 | 5677596.768 | 8400250.689 | 177.788 | 30 | 11 | 1.950 | 0.016 | 0.028 |  |
| 1001POM | 12:32:47 | Fix | -22.830 | -149.474 | 64.335 | 5677608.623 | 8400298.600 | 179.198 | 30 | 8 | 2.989 | 0.016 | 0.030 |  |
| 1002POM | 12:43:04 | Fix | -85.840 | -88.617 | 89.210 | 5677649.780 | 8400379.798 | 176.789 | 30 | 10 | 2.572 | 0.030 | 0.036 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 546 | 12:45:36 | Fix | -92.234 | -93.472 | 94.552 | 5677659.220 | 8400377.952 | 176.089 | 4 | 11 | 1.877 | 0.022 | 0.030 |  |
| 547 | 12:45:49 | Fix | -91.427 | -93.806 | 94.064 | 5677658.445 | 8400377.318 | 176.095 | 4 | 11 | 2.126 | 0.024 | 0.039 |  |
| 548 | 12:46:01 | Fix | -90.803 | -94.529 | 93.824 | 5677658.079 | 8400376.404 | 176.095 | 4 | 10 | 1.958 | 0.028 | 0.042 |  |

Data: 23-05-2017  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3691231.912 | 1544172.027 | 4950618.723 |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 1004 | 12:48:53 | Fix | 4801.266 | -7679.389 | -1201.267 | 5677640.256 | 8400346.584 | 176.897 | 30 | 9 | 2.472 | 0.006 | 0.009 |  |
| 1005 | 12:50:15 | Fix | 4774.517 | -7654.937 | -1188.930 | 5677659.279 | 8400379.807 | 176.928 | 30 | 11 | 1.645 | 0.010 | 0.014 |  |
| 1000PONN | 12:54:04 | Fix | 4871.027 | -7753.449 | -1229.030 | 5677596.668 | 8400250.553 | 177.784 | 30 | 10 | 2.044 | 0.017 | 0.026 |  |
| 1003POM | 12:55:28 | Fix | 4909.819 | -7778.427 | -1250.443 | 5677563.550 | 8400211.947 | 177.516 | 30 | 10 | 2.101 | 0.014 | 0.020 |  |
| OSN105 | 12:56:55 | Fix | 4913.321 | -7772.435 | -1255.166 | 5677556.197 | 8400215.994 | 177.300 | 30 | 11 | 1.830 | 0.012 | 0.018 |  |
| 1006 | 12:57:58 | Fix | 4910.586 | -7765.926 | -1254.875 | 5677556.264 | 8400223.057 | 177.510 | 30 | 10 | 1.822 | 0.012 | 0.018 |  |
| 1007 | 12:59:07 | Fix | 4899.388 | -7811.319 | -1231.994 | 5677592.963 | 8400186.145 | 177.960 | 30 | 11 | 1.921 | 0.012 | 0.018 |  |

Data: 25-05-2017  
  
**Stacja referencyjna**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nr | Czas | X | Y | Z |
| RTN\_VRS\_3\_1\_ |  | 3693273.922 | 1537195.312 | 4951243.904 |

**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 549 | 14:19:36 | Fix | 2887.078 | -745.472 | -1906.998 | 5677512.345 | 8400255.496 | 177.721 | 4 | 8 | 3.296 | 0.040 | 0.072 |  |
| 550 | 14:19:52 | Fix | 2887.156 | -745.306 | -1907.126 | 5677512.157 | 8400255.616 | 177.706 | 4 | 8 | 3.303 | 0.013 | 0.024 |  |
| 551 | 14:20:08 | Fix | 2887.574 | -745.974 | -1907.212 | 5677512.017 | 8400254.836 | 177.721 | 4 | 9 | 5.114 | 0.013 | 0.021 |  |
| 552 | 14:20:24 | Fix | 2888.141 | -746.553 | -1907.449 | 5677511.648 | 8400254.076 | 177.724 | 4 | 8 | 2.710 | 0.011 | 0.018 |  |
| 553 | 14:20:35 | Fix | 2888.236 | -746.498 | -1907.508 | 5677511.425 | 8400254.189 | 177.746 | 4 | 8 | 2.758 | 0.014 | 0.018 |  |
| 554 | 14:20:58 | Fix | 2891.237 | -750.718 | -1908.505 | 5677510.102 | 8400249.010 | 177.690 | 2 | 9 | 3.041 | 0.009 | 0.015 |  |
| 555 | 14:21:26 | Fix | 2887.889 | -747.525 | -1906.988 | 5677512.425 | 8400253.290 | 177.704 | 4 | 9 | 2.590 | 0.009 | 0.015 |  |
| 556 | 14:21:41 | Fix | 2887.136 | -746.719 | -1906.709 | 5677512.880 | 8400254.332 | 177.680 | 4 | 10 | 2.638 | 0.014 | 0.019 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 557 | 14:22:51 | Fix | 2913.607 | -740.490 | -1929.207 | 5677477.619 | 8400248.934 | 176.945 | 4 | 12 | 2.077 | 0.010 | 0.013 |  |
| 558 | 14:23:04 | Fix | 2913.548 | -740.508 | -1929.168 | 5677480.871 | 8400254.385 | 176.937 | 4 | 12 | 1.875 | 0.010 | 0.014 |  |
| 559 | 14:23:17 | Fix | 2913.374 | -740.669 | -1928.983 | 5677485.705 | 8400264.391 | 176.941 | 4 | 12 | 1.876 | 0.012 | 0.016 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 560 | 14:24:32 | Fix | 2908.624 | -701.374 | -1935.677 | 5677462.812 | 8400286.754 | 178.425 | 4 | 9 | 3.329 | 0.023 | 0.022 |  |
| 561 | 14:24:44 | Fix | 2908.790 | -701.321 | -1935.782 | 5677461.108 | 8400286.632 | 178.452 | 4 | 8 | 3.209 | 0.027 | 0.024 |  |
| 562 | 14:25:08 | Fix | 2905.130 | -688.190 | -1936.776 | 5677459.978 | 8400300.161 | 178.717 | 4 | 8 | 3.485 | 0.018 | 0.018 |  |
| 563 | 14:25:19 | Fix | 2904.564 | -688.406 | -1936.332 | 5677460.295 | 8400300.225 | 178.684 | 4 | 8 | 3.811 | 0.017 | 0.017 |  |
| 564 | 14:25:41 | Fix | 2897.086 | -688.355 | -1930.768 | 5677472.218 | 8400303.627 | 178.710 | 4 | 10 | 3.433 | 0.021 | 0.031 |  |
| 565 | 14:25:53 | Fix | 2896.902 | -688.127 | -1930.698 | 5677472.321 | 8400303.909 | 178.713 | 4 | 10 | 2.303 | 0.015 | 0.023 |  |
| 566 | 14:26:07 | Fix | 2896.674 | -687.847 | -1930.599 | 5677472.457 | 8400304.259 | 178.726 | 4 | 9 | 2.843 | 0.014 | 0.022 |  |
| 567 | 14:26:20 | Fix | 2896.501 | -688.006 | -1930.450 | 5677472.723 | 8400304.183 | 178.703 | 4 | 10 | 2.308 | 0.012 | 0.017 |  |
| 568 | 14:26:36 | Fix | 2896.705 | -688.242 | -1930.490 | 5677472.628 | 8400303.885 | 178.734 | 4 | 9 | 3.452 | 0.018 | 0.027 |  |
| 569 | 14:26:50 | Fix | 2896.958 | -688.512 | -1930.629 | 5677472.446 | 8400303.535 | 178.707 | 4 | 7 | 3.457 | 0.009 | 0.016 |  |
| 570 | 14:27:06 | Fix | 2893.926 | -685.159 | -1929.456 | 5677474.277 | 8400307.831 | 178.674 | 4 | 9 | 2.829 | 0.009 | 0.014 |  |
| 571 | 14:27:18 | Fix | 2893.866 | -685.334 | -1929.315 | 5677474.464 | 8400307.696 | 178.707 | 4 | 9 | 2.828 | 0.011 | 0.017 |  |
| 572 | 14:27:30 | Fix | 2893.579 | -684.803 | -1929.293 | 5677474.514 | 8400308.298 | 178.687 | 4 | 10 | 2.320 | 0.021 | 0.033 |  |
| 573 | 14:27:41 | Fix | 2893.408 | -684.444 | -1929.113 | 5677474.634 | 8400308.697 | 178.815 | 4 | 7 | 2.943 | 0.027 | 0.051 |  |
| 574 | 14:27:51 | Fix | 2893.269 | -684.608 | -1929.056 | 5677474.821 | 8400308.603 | 178.739 | 4 | 6 | 7.170 | 0.030 | 0.057 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 575 | 14:28:24 | Fix | 2886.127 | -681.119 | -1925.930 | 5677480.759 | 8400314.683 | 177.885 | 4 | 11 | 2.296 | 0.009 | 0.013 |  |
| 576 | 14:28:36 | Fix | 2886.408 | -682.159 | -1925.721 | 5677481.020 | 8400313.619 | 177.960 | 4 | 11 | 2.392 | 0.009 | 0.012 |  |
| 577 | 14:29:01 | Fix | 2888.596 | -677.429 | -1928.895 | 5677475.973 | 8400317.050 | 177.888 | 4 | 11 | 2.336 | 0.009 | 0.012 |  |
| 578 | 14:29:25 | Fix | 2882.527 | -673.690 | -1925.530 | 5677481.218 | 8400322.936 | 177.901 | 4 | 11 | 1.669 | 0.012 | 0.015 |  |
| 579 | 14:29:48 | Fix | 2882.280 | -673.420 | -1925.426 | 5677481.373 | 8400323.282 | 177.904 | 4 | 11 | 1.635 | 0.010 | 0.012 |  |
| 580 | 14:30:03 | Fix | 2882.053 | -673.224 | -1925.341 | 5677481.526 | 8400323.554 | 177.886 | 4 | 11 | 1.661 | 0.009 | 0.013 |  |
| 581 | 14:30:29 | Fix | 2881.932 | -673.380 | -1925.180 | 5677481.762 | 8400323.460 | 177.904 | 4 | 11 | 1.953 | 0.029 | 0.044 |  |
| 582 | 14:30:49 | Fix | 2882.222 | -673.604 | -1925.151 | 5677481.645 | 8400323.139 | 178.041 | 4 | 11 | 1.600 | 0.009 | 0.012 |  |
| 583 | 14:31:09 | Fix | 2882.408 | -673.868 | -1925.392 | 5677481.445 | 8400322.821 | 177.898 | 4 | 10 | 1.676 | 0.010 | 0.012 |  |
| 584 | 14:32:04 | Fix | 2888.397 | -666.522 | -1931.650 | 5677470.931 | 8400327.102 | 178.247 | 4 | 11 | 2.198 | 0.016 | 0.024 |  |
| 585 | 14:32:26 | Fix | 2888.588 | -666.753 | -1931.724 | 5677470.822 | 8400326.813 | 178.245 | 4 | 11 | 2.201 | 0.013 | 0.018 |  |
| 586 | 14:32:43 | Fix | 2888.810 | -667.051 | -1931.902 | 5677470.647 | 8400326.449 | 178.163 | 4 | 11 | 2.321 | 0.039 | 0.057 |  |
| 587 | 14:33:43 | Fix | 2888.926 | -666.907 | -1932.009 | 5677470.452 | 8400326.534 | 178.181 | 4 | 9 | 2.677 | 0.071 | 0.100 |  |
| 588 | 14:34:43 | Fix | 2888.493 | -666.365 | -1931.819 | 5677470.707 | 8400327.206 | 178.209 | 4 | 10 | 2.437 | 0.035 | 0.054 |  |
| 589 | 14:34:52 | Fix | 2889.067 | -666.040 | -1932.265 | 5677469.916 | 8400327.270 | 178.271 | 4 | 10 | 2.374 | 0.044 | 0.060 |  |
| 590 | 14:35:47 | Fix | 2912.121 | -658.879 | -1952.113 | 5677454.320 | 8400333.472 | 177.851 | 4 | 8 | 2.872 | 0.027 | 0.029 |  |
| 591 | 14:35:59 | Fix | 2912.062 | -658.433 | -1952.145 | 5677452.957 | 8400333.998 | 177.899 | 4 | 8 | 2.779 | 0.026 | 0.027 |  |
| 592 | 14:36:16 | Fix | 2905.483 | -655.363 | -1948.137 | 5677453.400 | 8400335.386 | 177.958 | 4 | 8 | 2.870 | 0.026 | 0.028 |  |
| 593 | 14:37:11 | Fix | 2874.796 | -665.557 | -1922.316 | 5677486.157 | 8400333.511 | 177.892 | 4 | 10 | 2.357 | 0.018 | 0.027 |  |
| 594 | 14:37:28 | Fix | 2874.605 | -665.367 | -1922.241 | 5677486.281 | 8400333.762 | 177.886 | 4 | 11 | 2.445 | 0.017 | 0.024 |  |
| 595 | 14:37:42 | Fix | 2874.355 | -665.115 | -1922.135 | 5677486.445 | 8400334.094 | 177.885 | 4 | 11 | 2.450 | 0.016 | 0.024 |  |
| 596 | 14:38:01 | Fix | 2874.203 | -665.293 | -1921.998 | 5677486.696 | 8400333.993 | 177.861 | 4 | 11 | 2.458 | 0.016 | 0.024 |  |
| 597 | 14:38:17 | Fix | 2874.445 | -665.542 | -1922.062 | 5677486.562 | 8400333.667 | 177.891 | 4 | 11 | 2.465 | 0.016 | 0.023 |  |
| 598 | 14:38:41 | Fix | 2874.720 | -665.738 | -1922.185 | 5677486.351 | 8400333.376 | 177.906 | 4 | 12 | 2.475 | 0.015 | 0.020 |  |
| 599 | 14:39:25 | Fix | 2865.437 | -656.153 | -1918.294 | 5677492.360 | 8400345.909 | 177.877 | 4 | 9 | 2.327 | 0.019 | 0.023 |  |
| 600 | 14:39:39 | Fix | 2865.561 | -656.292 | -1918.358 | 5677492.276 | 8400345.732 | 177.865 | 4 | 10 | 2.213 | 0.017 | 0.019 |  |
| 601 | 14:39:56 | Fix | 2865.674 | -656.446 | -1918.429 | 5677492.200 | 8400345.545 | 177.838 | 4 | 8 | 2.607 | 0.027 | 0.031 |  |
| 602 | 14:40:14 | Fix | 2865.539 | -656.631 | -1918.299 | 5677492.436 | 8400345.431 | 177.818 | 4 | 8 | 4.167 | 0.027 | 0.052 |  |
| 603 | 14:40:30 | Fix | 2865.408 | -656.449 | -1918.196 | 5677492.536 | 8400345.651 | 177.865 | 4 | 8 | 3.699 | 0.023 | 0.040 |  |
| 604 | 14:41:04 | Fix | 2865.252 | -656.327 | -1918.169 | 5677492.626 | 8400345.825 | 177.826 | 4 | 8 | 2.844 | 0.031 | 0.034 |  |
| 605 | 14:41:42 | Fix | 2858.251 | -648.609 | -1915.142 | 5677508.958 | 8400351.414 | 177.993 | 3 | 5 | 8.630 | 0.041 | 0.070 |  |
| 606 | 14:41:51 | Fix | 2858.176 | -648.665 | -1915.154 | 5677500.245 | 8400354.383 | 177.927 | 4 | 8 | 2.687 | 0.025 | 0.042 |  |
| 607 | 14:42:00 | Fix | 2858.169 | -648.663 | -1915.158 | 5677497.867 | 8400355.292 | 177.920 | 4 | 8 | 3.720 | 0.024 | 0.041 |  |
| 608 | 14:42:07 | Fix | 2858.169 | -648.659 | -1915.153 | 5677497.500 | 8400356.197 | 177.925 | 4 | 8 | 3.722 | 0.024 | 0.041 |  |
| 609 | 14:42:16 | Fix | 2858.165 | -648.655 | -1915.158 | 5677497.389 | 8400355.897 | 177.920 | 4 | 8 | 3.723 | 0.025 | 0.041 |  |
| 610 | 14:42:26 | Fix | 2858.158 | -648.657 | -1915.146 | 5677497.285 | 8400355.618 | 177.925 | 4 | 9 | 3.725 | 0.016 | 0.026 |  |
| 611 | 14:42:37 | Fix | 2858.158 | -648.657 | -1915.162 | 5677497.060 | 8400355.727 | 177.912 | 4 | 7 | 3.976 | 0.017 | 0.029 |  |
| 612 | 14:42:49 | Fix | 2857.770 | -648.211 | -1915.151 | 5677497.271 | 8400356.284 | 177.804 | 4 | 7 | 5.064 | 0.021 | 0.036 |  |
| 613 | 14:43:05 | Fix | 2858.063 | -648.405 | -1915.106 | 5677497.152 | 8400355.989 | 177.961 | 4 | 7 | 5.355 | 0.027 | 0.044 |  |
| 614 | 14:43:49 | Fix | 2843.372 | -633.403 | -1909.070 | 5677506.639 | 8400375.670 | 177.780 | 4 | 10 | 2.543 | 0.011 | 0.015 |  |
| 615 | 14:44:06 | Fix | 2843.179 | -633.188 | -1909.010 | 5677506.745 | 8400375.944 | 177.766 | 4 | 10 | 2.290 | 0.012 | 0.016 |  |
| 616 | 14:44:22 | Fix | 2842.938 | -632.939 | -1908.916 | 5677506.897 | 8400376.270 | 177.760 | 4 | 12 | 2.091 | 0.011 | 0.014 |  |
| 617 | 14:44:37 | Fix | 2842.851 | -633.092 | -1908.739 | 5677507.118 | 8400376.166 | 177.811 | 4 | 12 | 2.545 | 0.019 | 0.023 |  |
| 618 | 14:44:55 | Fix | 2843.279 | -633.600 | -1908.932 | 5677506.852 | 8400375.528 | 177.786 | 4 | 11 | 1.606 | 0.011 | 0.015 |  |
| 619 | 14:45:11 | Fix | 2843.109 | -633.406 | -1908.852 | 5677506.963 | 8400375.774 | 177.796 | 4 | 11 | 1.722 | 0.012 | 0.015 |  |
| 620 | 14:45:39 | Fix | 2835.697 | -624.976 | -1906.059 | 5677534.170 | 8400378.840 | 177.715 | 4 | 9 | 2.034 | 0.011 | 0.015 |  |
| 621 | 14:46:31 | Fix | 2833.483 | -619.932 | -1906.000 | 5677514.038 | 8400390.777 | 177.694 | 4 | 10 | 2.479 | 0.011 | 0.014 |  |
| 622 | 14:46:46 | Fix | 2833.228 | -619.684 | -1905.886 | 5677514.125 | 8400390.964 | 177.694 | 4 | 10 | 1.914 | 0.010 | 0.013 |  |
| 623 | 14:47:00 | Fix | 2833.132 | -619.824 | -1905.791 | 5677514.332 | 8400390.846 | 177.679 | 4 | 10 | 2.179 | 0.010 | 0.013 |  |
| 624 | 14:47:13 | Fix | 2833.289 | -619.970 | -1905.854 | 5677514.271 | 8400390.674 | 177.687 | 4 | 10 | 1.912 | 0.009 | 0.012 |  |
| 625 | 14:47:25 | Fix | 2833.447 | -620.099 | -1905.915 | 5677514.165 | 8400390.471 | 177.699 | 4 | 10 | 2.461 | 0.010 | 0.013 |  |
| 626 | 14:47:39 | Fix | 2833.410 | -619.820 | -1905.979 | 5677513.948 | 8400390.597 | 177.695 | 4 | 10 | 1.909 | 0.010 | 0.013 |  |
| 627 | 14:48:10 | Fix | 2821.198 | -610.736 | -1899.799 | 5677520.793 | 8400405.311 | 177.635 | 4 | 5 | 8.364 | 0.022 | 0.033 |  |
| 628 | 14:49:52 | Fix | 2815.707 | -601.328 | -1898.720 | 5677521.040 | 8400405.652 | 177.564 | 4 | 10 | 2.091 | 0.018 | 0.023 |  |
| 629 | 14:50:04 | Fix | 2815.402 | -601.013 | -1898.586 | 5677521.280 | 8400406.245 | 177.567 | 4 | 10 | 1.897 | 0.017 | 0.022 |  |
| 630 | 14:50:15 | Fix | 2815.225 | -600.850 | -1898.516 | 5677521.517 | 8400406.139 | 177.559 | 4 | 10 | 1.896 | 0.016 | 0.021 |  |
| 631 | 14:50:27 | Fix | 2815.112 | -600.987 | -1898.399 | 5677521.258 | 8400405.543 | 177.552 | 4 | 10 | 1.895 | 0.016 | 0.020 |  |
| 632 | 14:50:38 | Fix | 2815.326 | -601.182 | -1898.491 | 5677518.886 | 8400406.279 | 177.557 | 4 | 10 | 1.894 | 0.017 | 0.022 |  |
| 633 | 14:50:52 | Fix | 2815.490 | -601.364 | -1898.548 | 5677519.249 | 8400406.797 | 177.564 | 4 | 10 | 1.893 | 0.016 | 0.020 |  |
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| 636 | 14:51:20 | Fix | 2814.024 | -603.320 | -1896.911 | 5677525.696 | 8400414.627 | 177.522 | 4 | 7 | 6.856 | 0.042 | 0.057 |  |
| 637 | 14:51:29 | Fix | 2814.023 | -603.319 | -1896.913 | 5677525.615 | 8400415.091 | 177.520 | 4 | 7 | 4.586 | 0.042 | 0.052 |  |
| 638 | 14:51:38 | Fix | 2814.035 | -603.315 | -1896.917 | 5677526.008 | 8400415.341 | 177.525 | 4 | 7 | 4.581 | 0.043 | 0.052 |  |
| 639 | 14:51:48 | Fix | 2813.811 | -603.086 | -1896.768 | 5677525.783 | 8400415.391 | 177.566 | 4 | 7 | 4.574 | 0.042 | 0.050 |  |
| 640 | 14:51:59 | Fix | 2814.269 | -603.615 | -1897.012 | 5677525.471 | 8400414.721 | 177.514 | 4 | 7 | 6.062 | 0.042 | 0.050 |  |
| 641 | 15:05:20 | Fix | 2865.947 | -733.299 | -1896.176 | 5677523.402 | 8400278.503 | 176.866 | 4 | 9 | 3.260 | 0.014 | 0.022 | 4 |
| 642 | 15:05:34 | Fix | 2865.598 | -732.987 | -1896.024 | 5677523.647 | 8400279.003 | 176.858 | 4 | 9 | 3.147 | 0.009 | 0.014 | 4 |
| 643 | 15:05:48 | Fix | 2865.268 | -732.668 | -1895.812 | 5677523.916 | 8400279.564 | 176.909 | 4 | 9 | 2.003 | 0.008 | 0.011 | 4 |
| 644 | 15:05:59 | Fix | 2865.376 | -732.474 | -1895.948 | 5677523.689 | 8400279.676 | 176.911 | 4 | 10 | 1.980 | 0.008 | 0.011 | 4 |
| 645 | 15:06:13 | Fix | 2866.051 | -733.099 | -1896.282 | 5677523.166 | 8400278.587 | 176.892 | 4 | 9 | 2.266 | 0.027 | 0.071 | 4 |
| 646 | 15:06:24 | Fix | 2865.613 | -733.246 | -1895.885 | 5677523.772 | 8400278.926 | 176.912 | 4 | 9 | 3.135 | 0.017 | 0.043 | 4 |
| 647 | 15:10:51 | Fix | 2844.309 | -715.062 | -1885.480 | 5677554.339 | 8400297.888 | 177.078 | 4 | 8 | 3.194 | 0.012 | 0.014 |  |
| 648 | 15:11:01 | Fix | 2844.304 | -715.047 | -1885.474 | 5677554.606 | 8400298.516 | 177.083 | 4 | 8 | 3.194 | 0.011 | 0.014 |  |
| 649 | 15:11:11 | Fix | 2844.302 | -715.045 | -1885.466 | 5677552.003 | 8400298.894 | 177.088 | 4 | 8 | 3.194 | 0.011 | 0.014 |  |
| 650 | 15:11:20 | Fix | 2844.302 | -715.031 | -1885.467 | 5677552.163 | 8400299.317 | 177.090 | 4 | 8 | 3.194 | 0.012 | 0.015 |  |
| 651 | 15:12:26 | Fix | 2847.042 | -704.953 | -1890.622 | 5677538.055 | 8400308.439 | 177.079 | 4 | 9 | 2.426 | 0.017 | 0.026 |  |
| 652 | 15:12:35 | Fix | 2847.039 | -704.949 | -1890.634 | 5677536.775 | 8400309.377 | 177.070 | 4 | 10 | 2.426 | 0.018 | 0.027 |  |
| 653 | 15:12:45 | Fix | 2847.039 | -704.941 | -1890.649 | 5677534.711 | 8400310.447 | 177.060 | 4 | 9 | 2.620 | 0.020 | 0.030 |  |
| 654 | 15:13:24 | Fix | 2829.766 | -696.315 | -1880.602 | 5677557.251 | 8400322.290 | 176.979 | 4 | 9 | 2.877 | 0.021 | 0.038 |  |
| 655 | 15:14:14 | Fix | 2829.622 | -696.156 | -1880.560 | 5677557.350 | 8400322.520 | 176.966 | 4 | 8 | 2.710 | 0.015 | 0.017 |  |
| 656 | 15:14:26 | Fix | 2829.492 | -696.044 | -1880.506 | 5677557.426 | 8400322.677 | 176.960 | 4 | 8 | 2.684 | 0.015 | 0.017 |  |
| 657 | 15:14:37 | Fix | 2829.401 | -696.158 | -1880.438 | 5677557.636 | 8400322.560 | 176.933 | 4 | 8 | 2.684 | 0.015 | 0.018 |  |
| 658 | 15:14:45 | Fix | 2829.656 | -696.451 | -1880.490 | 5677557.486 | 8400322.179 | 176.970 | 4 | 8 | 2.684 | 0.010 | 0.014 |  |
| 659 | 15:17:59 | Fix | 2803.511 | -672.010 | -1869.039 | 5677572.539 | 8400356.477 | 176.655 | 4 | 7 | 6.457 | 0.017 | 0.028 |  |
| 660 | 15:18:12 | Fix | 2802.298 | -670.732 | -1868.550 | 5677573.289 | 8400358.186 | 176.643 | 4 | 7 | 4.737 | 0.017 | 0.029 |  |
| 661 | 15:21:37 | Fix | 2770.499 | -628.567 | -1857.960 | 5677585.805 | 8400409.380 | 176.650 | 4 | 10 | 2.360 | 0.014 | 0.020 |  |
| 662 | 15:21:49 | Fix | 2770.497 | -628.559 | -1857.960 | 5677586.015 | 8400409.276 | 176.651 | 4 | 10 | 2.330 | 0.012 | 0.017 |  |
| 663 | 15:21:59 | Fix | 2770.500 | -628.568 | -1857.954 | 5677585.926 | 8400409.093 | 176.655 | 4 | 10 | 2.331 | 0.014 | 0.017 |  |
| 664 | 15:22:09 | Fix | 2770.507 | -628.571 | -1857.949 | 5677585.838 | 8400408.910 | 176.663 | 4 | 10 | 2.332 | 0.015 | 0.019 |  |
| 665 | 15:22:18 | Fix | 2770.513 | -628.570 | -1857.957 | 5677585.634 | 8400409.017 | 176.660 | 4 | 10 | 2.333 | 0.014 | 0.019 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN56 | 15:23:52 | Fix | 2783.396 | -605.967 | -1872.934 | 5677563.285 | 8400425.136 | 177.868 | 4 | 9 | 2.707 | 0.024 | 0.022 |  |
| 666 | 15:26:20 | Fix | 2808.352 | -676.600 | -1869.840 | 5677589.804 | 8400345.542 | 177.727 | 4 | 12 | 1.566 | 0.007 | 0.008 |  |
| 667 | 15:26:32 | Fix | 2808.066 | -676.255 | -1869.720 | 5677590.054 | 8400346.120 | 177.738 | 4 | 11 | 1.568 | 0.007 | 0.008 |  |
| OSN156 | 15:30:45 | Fix | 2871.311 | -795.731 | -1880.269 | 5677556.251 | 8400215.984 | 177.357 | 4 | 11 | 1.554 | 0.008 | 0.010 |  |

Wysokość anteny: 2.740  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| 668 | 13:40:22 | Fix | 2758.498 | -774.576 | -1804.571 | 5677677.298 | 8400281.186 | 176.227 | 4 | 10 | 2.007 | 0.009 | 0.011 |  |
| 669 | 13:40:40 | Fix | 2758.926 | -773.757 | -1805.189 | 5677676.347 | 8400281.760 | 176.189 | 4 | 9 | 2.128 | 0.010 | 0.012 |  |
| 670 | 13:41:04 | Fix | 2758.723 | -773.541 | -1805.147 | 5677676.449 | 8400282.040 | 176.157 | 4 | 11 | 2.053 | 0.014 | 0.017 |  |
| 671 | 13:41:21 | Fix | 2759.201 | -773.987 | -1805.329 | 5677676.136 | 8400281.438 | 176.184 | 4 | 10 | 2.097 | 0.011 | 0.013 |  |
| 672 | 13:41:38 | Fix | 2758.885 | -773.306 | -1805.270 | 5677676.181 | 8400282.189 | 176.211 | 4 | 9 | 2.045 | 0.011 | 0.013 |  |
| 673 | 13:41:56 | Fix | 2759.352 | -773.795 | -1805.455 | 5677675.889 | 8400281.553 | 176.220 | 4 | 9 | 2.111 | 0.011 | 0.013 |  |

Wysokość anteny: 1.940  
  
**Pomiary sytuacyjno-wysokościowe**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nr | Czas | Tryb | dX | dY | dZ | x | y | h | E | Sat | PDOP | Rms2D | Rms1D | Kod |
| OSN5984 | 13:45:57 | Fix | 2671.733 | -767.505 | -1742.750 | 5677775.568 | 8400322.938 | 175.955 | 4 | 11 | 1.961 | 0.007 | 0.009 |  |

LEGENDA:  
k – punkt kontrolny pomierzony za pomocą pomiarów GNSS  
k' – punkt kontrolny k pomierzony za pomocą pomiarów GNSS przy ponownej inicjalizacji odbiornika  
Czas – czas lokalny rozpoczęcia pomiaru punktu  
Tryb – typ rozwiązania nieoznaczoności (Fix - tryb precyzyjny RTK)  
dX, dY, dZ – przyrosty współrzędnych kartezjańskich w układzie WGS84  
x, y – współrzędne w lokalnym układzie współrzędnych  
h – wysokość normalna  
E - liczba obserwacji  
Sat - liczba śledzonych satelitów, na podstawie których została wyznaczona pozycja  
PDOP - parametr rozmieszczenia geometrycznego satelitów  
Rms2D – (Root Mean Square) odchylenie standardowe średniej dla współrzędnych płaskich (poziom ufności 68%)  
Rms1D – (Root Mean Square) odchylenie standardowe średniej dla wysokości (poziom ufności 68%)  
Kod - informacja o pomierzonej pikiecie

5677482.059

8400323.016

5677486.178

8400321.434

5677501.542

8400314.069

5677499.834

8400313.08

5677499.834

8400313.08

5677496.835

8400314.391

5677493.57

8400317.862

5677493.898

8400344.961

5677501.487

8400341.167

5677506.327

8400338.53

5677505.983

8400336.679

5677509.491

8400335.147

5677510.004

8400335.812

5677507.798

8400375.716

5677511.305

8400373.864

5677512.27

8400372.416

5677514.96

8400370.921

5677517.689

8400369.789

5677518.72

8400370.0

5677472.813

8400303.385

5677473.659

8400302.712

5677475.749

8400302.155

5677480.769

8400299.825

5677480.157

8400297.266

5677486.236

8400293.961

5677490.4

8400291.75

5677491.978

8400295.714

5677480.963

8400312.466

5677480.963

8400312.466

5677486.722

8400309.422

5677493.811

8400305.843

5677491.867

8400300.318

5677493.012

8400299.688

5677516.336

8400388.477

5677516.504

8400384.063

5677521.579

8400381.666

5677528.92

8400378.034

5677531.68

8400377.639

5677514.497

8400390.427

5677521.33

8400405.666

5677565.117

8400336.433

5677575.536

8400331.875

5677584.542

8400327.874

5677589.008

8400337.138

5677589.008

8400337.138

5677590.675

8400336.551

5677590.026

8400338.34

5677592.712

8400343.932

5677586.682

8400347.175

5677587.298

8400349.531

5677583.652

8400351.329

5677580.814

8400352.401

5677574.802

8400355.529

5677584.973

8400371.598

5677583.796

8400369.108

5677581.017

8400364.005

5677579.556

8400361.781

5677578.103

8400361.447

5677575.618

8400357.056

5677583.031

8400367.521

5677562.659

8400360.871

5677550.506

8400366.575

5677542.154

8400368.086

5677540.631

8400363.408

5677540.208

8400363.114

5677578.491

8400394.135

5677578.152

8400395.393

5677579.568

8400399.192

5677568.206

8400405.166

5677568.812

8400406.597

5677565.167

8400408.398

5677560.952

8400410.728

5677570.291

8400408.7

5677460.264

8400313.424

5677460.698

8400308.305

5677460.954

8400305.643

5677461.186

8400302.654

5677461.354

8400300.428

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