

Dispersion Report

Workspace: 72438-2FSRURegas-8R

Study: FSRU in rigassificazione

Equipment Item: 8R Linee mandata pompe HP Booster

72438-2FSRURegas-8R\FSRU in rigassificazione\8R Linee mandata pompe HP Booster

| Material | GAS NATURALE | |
|----------|--------------|---|
| East | 0 | m |
| North | 0 | m |

Scenario (User defined source) : 200mm-59kg/s

72438-2FSRURegas-8R\FSRU in rigassificazione\8R Linee mandata pompe HP Booster\200mm-59kg/s

| Material to track | GAS NATURALE |
|-------------------|--------------|
|-------------------|--------------|

Weather: Category 2/F

| | |
|--------------------------------|---|
| Wind speed [m/s] | 2 |
| Pasquill stability | F stable - night with moderate clouds and light/moderate wind |
| Atmospheric temperature [degC] | 25 |
| Relative humidity [fraction] | 0,75 |
| Solar radiation flux [kW/m2] | 0,5 |
| Mixing layer height [m] | 100 |

Observer Release Data and Observer Mass Data

| Observer number | Release type | Start time [s] | Start downwind distance [m] | Unit | Masses or mass rates | | |
|-----------------|--------------|----------------|-----------------------------|------|----------------------|---------|-------|
| | | | | | Release | Rainout | Final |
| 1 | Continuous | 0 | 0 | kg/s | 59 | 0 | 59 |

2 Continuous 3600 0 kg/s 59 0 59

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

| Observer number | Time [s] | Down wind distance [m] | C/Li ne height [m] | C/Lin e conc [ppm] | Effect ive width [m] | Effect ive depth [m] | C/Line vapour temperature [degC] | C/Li ne liquid fraction | Centr oid velocity [m/s] | C/Lin e cloud density [kg/m ³] |
|-----------------|----------|------------------------|--------------------|--------------------|----------------------|----------------------|----------------------------------|-------------------------|--------------------------|--|
| 1 | 0 | 0 | 5 | 999.99 9,37 | 0,3573 17 | 0,1713 72 | -160,343 | 0 | 236,89 1 | 2,0336 7 |
| 1 | 0,01 | 1,86186 | 4,999 85 | 737.96 4,65 | 0,6219 45 | 0,3099 1 | -109,048 | 0 | 152,06 3 | 1,5729 3 |
| 1 | 0,02 | 3,19342 | 4,999 52 | 611.70 6,44 | 0,8323 46 | 0,4165 14 | -82,6482 | 0 | 118,75 5 | 1,4374 2 |
| 1 | 0,03 | 4,28046 | 4,999 09 | 534.03 2,03 | 1,0118 6 | 0,5065 34 | -65,8674 | 0 | 100,18 5 | 1,369 |
| 1 | 0,04 | 5,21783 | 4,998 58 | 480.05 0,86 | 1,1708 5 | 0,5860 3 | -53,9784 | 0 | 88,041 1 | 1,3266 4 |
| 1 | 0,05 | 6,04963 | 4,998 02 | 439.75 9,91 | 1,3147 5 | 0,6579 22 | -45,0165 | 0 | 79,353 6 | 1,2975 5 |
| 1 | 0,06 | 6,80641 | 4,997 43 | 408.10 3,50 | 1,4474 4 | 0,7241 92 | -37,9664 | 0 | 72,741 2 | 1,2762 4 |
| 1 | 0,07 | 7,50488 | 4,996 8 | 382.36 5,09 | 1,5711 3 | 0,7859 66 | -32,2739 | 0 | 67,497 5 | 1,2600 5 |
| 1 | 0,08 | 8,15677 | 4,996 15 | 360.88 6,35 | 1,6874 3 | 0,8440 47 | -27,5909 | 0 | 63,209 6 | 1,2474 3 |
| 1 | 0,09 | 8,77015 | 4,995 48 | 342.60 1,44 | 1,7974 7 | 0,8990 11 | -23,6846 | 0 | 59,620 6 | 1,2374 2 |
| 1 | 0,1 | 9,35126 | 4,994 8 | 326.78 0,74 | 1,9021 8 | 0,9513 12 | -20,3878 | 0 | 56,559 7 | 1,2293 7 |
| 1 | 0,11 | 9,90435 | 4,994 11 | 312.91 8,63 | 2,0022 1 | 1,0012 8 | -17,5789 | 0 | 53,911 5 | 1,2228 3 |
| 1 | 0,12 | 10,4319 | 4,993 | 300.65 | 2,0979 | 1,0491 | -15,1675 | 0 | 51,593 | 1,2174 |



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|---|--------------|---------|-------------|----------------|-------------|-------------|-----------|---|-------------|-------------|
| | | | 41 | 8,03 | 8 | 2 | | | 6 | 8 |
| 1 | 0,13 | 10,9366 | 4,992 7 | 289.71 7,23 | 2,1899 3 | 1,0950 6 | -13,0802 | 0 | 49,545 5 | 1,2130 5 |
| 1 | 0,14 | 11,4212 | 4,991 99 | 279.87 0,21 | 2,2785 2 | 1,1393 1 | -11,258 | 0 | 47,717 9 | 1,2093 6 |
| 1 | 0,15 | 11,8881 | 4,991 28 | 270.94 2,52 | 2,3641 2 | 1,1820 7 | -9,65451 | 0 | 46,073 7 | 1,2062 5 |
| 1 | 0,16 | 12,3399 | 4,990 56 | 262.78 6,02 | 2,4471 5 | 1,2235 5 | -8,23151 | 0 | 44,582 1 | 1,2036 1 |
| 1 | 0,17 | 12,7775 | 4,989 84 | 255.30 0,38 | 2,5277 8 | 1,2638 3 | -6,96157 | 0 | 43,221 8 | 1,2013 6 |
| 1 | 0,18 | 13,2018 | 4,989 12 | 248.40 2,37 | 2,6061 9 | 1,303 | -5,82223 | 0 | 41,975 6 | 1,1994 3 |
| 1 | 0,19 | 13,6146 | 4,988 4 | 242.01 0,53 | 2,6826 3 | 1,3411 9 | -4,7931 | 0 | 40,827 | 1,1977 6 |
| 1 | 0,2 | 14,0162 | 4,987 68 | 236.07 0,83 | 2,7572 2 | 1,3784 5 | -3,85973 | 0 | 39,765 1 | 1,1963 1 |
| 1 | 0,212 | 14,4852 | 4,986 82 | 229.46 0,67 | 2,8445 5 | 1,4220 8 | -2,84687 | 0 | 38,589 2 | 1,1948 |
| 1 | 0,226 4 | 15,0304 | 4,985 78 | 222.18 7,00 | 2,9463 9 | 1,4729 5 | -1,76358 | 0 | 37,302 5 | 1,1932 8 |
| 1 | 0,243 68 | 15,6618 | 4,984 53 | 214.26 6,20 | 3,0648 2 | 1,5321 1 | -0,620627 | 0 | 35,909 8 | 1,1917 8 |
| 1 | 0,264 416 | 16,3913 | 4,983 04 | 205.73 0,81 | 3,2014 5 | 1,6003 7 | 0,437891 | 0 | 34,418 9 | 1,1909 1 |
| 1 | 0,289 299 | 17,2313 | 4,981 24 | 196.63 3,61 | 3,3607 6 | 1,6799 5 | 1,7148 | 0 | 32,841 | 1,1893 6 |
| 1 | 0,319 159 | 18,1913 | 4,979 08 | 187.07 8,74 | 3,5441 8 | 1,7715 7 | 3,01381 | 0 | 31,195 9 | 1,1878 9 |
| 1 | 0,354 991 | 19,2822 | 4,976 48 | 177.17 4,95 | 3,7544 7 | 1,8766 2 | 4,3159 | 0 | 29,503 9 | 1,1865 5 |
| 1 | 0,397 989 | 20,5171 | 4,973 35 | 167.02 3,18 | 3,9951 4 | 1,9968 4 | 5,60521 | 0 | 27,783 1 | 1,1853 5 |
| 1 | 0,449 587 | 21,9083 | 4,969 58 | 156.74 1,61 | 4,2699 | 2,1340 8 | 6,8658 | 0 | 26,054 3 | 1,1843 2 |
| 1 | 0,511 504 | 23,4671 | 4,965 03 | 146.44 9,84 | 4,5830 7 | 2,2905 2 | 8,08384 | 0 | 24,337 9 | 1,1834 5 |
| 1 | 0,585 | 25,2079 | 4,959 | 136.26 | 4,9398 | 2,4687 | 9,24823 | 0 | 22,652 | 1,1827 |



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|---|--------------|---------|-------------|----------------|-------------|-------------|---------|---|-------------|-------------|
| | 805 | | 51 | 1,38 | 6 | 3 | | | 8 | 4 |
| 1 | 0,674 966 | 27,1473 | 4,952 78 | 126.31 1,92 | 5,3452 5 | 2,6712 3 | 10,3472 | 0 | 21,021 1 | 1,1821 9 |
| 1 | 0,781 959 | 29,3018 | 4,944 52 | 116.71 6,05 | 5,8051 4 | 2,9009 5 | 11,373 | 0 | 19,461 | 1,1817 8 |
| 1 | 0,910 351 | 31,6932 | 4,934 27 | 107.53 6,90 | 6,3279 6 | 3,1621 1 | 12,3242 | 0 | 17,982 | 1,1814 9 |
| 1 | 1,064 42 | 34,3445 | 4,921 42 | 98.808, 27 | 6,9245 5 | 3,4601 2 | 13,2026 | 0 | 16,588 9 | 1,1813 2 |
| 1 | 1,249 31 | 37,2788 | 4,905 1 | 90.552, 99 | 7,6072 9 | 3,8011 8 | 14,0108 | 0 | 15,284 9 | 1,1812 3 |
| 1 | 1,471 17 | 40,5208 | 4,884 04 | 82.771, 28 | 8,3912 1 | 4,1927 9 | 14,7534 | 0 | 14,069 3 | 1,1812 1 |
| 1 | 1,570 6 | 41,8953 | 4,874 12 | 79.892, 94 | 8,7266 2 | 4,3603 6 | 15,0234 | 0 | 13,617 5 | 1,1812 2 |
| 1 | 1,570 6 | 41,8953 | 4,874 12 | 79.892, 94 | 8,7266 2 | 4,3603 6 | 15,0234 | 0 | 13,617 5 | 1,1812 2 |
| 1 | 1,737 4 | 44,1125 | 4,857 41 | 76.017, 71 | 9,0278 2 | 4,7538 4 | 15,3833 | 0 | 12,989 8 | 1,1812 5 |
| 1 | 2,056 88 | 48,1062 | 4,827 47 | 70.443, 14 | 9,6289 3 | 5,3775 1 | 15,8938 | 0 | 12,058 3 | 1,1813 1 |
| 1 | 2,440 26 | 52,5602 | 4,794 89 | 65.472, 18 | 10,382 3 | 5,9670 9 | 16,3417 | 0 | 11,219 1 | 1,1813 9 |
| 1 | 2,900 31 | 57,5358 | 4,758 34 | 60.917, 03 | 11,320 3 | 6,5069 7 | 16,7464 | 0 | 10,449 7 | 1,1814 8 |
| 1 | 3,452 37 | 63,0985 | 4,715 26 | 56.704, 86 | 12,481 4 | 6,9793 2 | 17,1158 | 0 | 9,7379 9 | 1,1815 9 |
| 1 | 4,114 84 | 69,3172 | 4,662 02 | 52.789, 46 | 13,910 8 | 7,3753 1 | 17,4552 | 0 | 9,0749 3 | 1,1817 |
| 1 | 4,909 81 | 76,2699 | 4,593 76 | 49.128, 23 | 15,661 8 | 7,6998 9 | 17,7692 | 0 | 8,4523 5 | 1,1818 1 |
| 1 | 5,863 77 | 84,0391 | 4,504 34 | 45.691, 98 | 17,797 5 | 7,9649 5 | 18,061 | 0 | 7,8647 9 | 1,1819 3 |
| 1 | 7,008 53 | 92,711 | 4,386 11 | 42.461, 17 | 20,393 3 | 8,1870 3 | 18,3329 | 0 | 7,3087 7 | 1,1820 6 |
| 1 | 8,382 23 | 102,375 | 4,229 46 | 39.422, 33 | 23,539 4 | 8,3859 4 | 18,5867 | 0 | 6,7822 7 | 1,1821 9 |
| 1 | 10,03 | 113,119 | 4,022 | 36.567, | 27,344 | 8,5830 | 18,8235 | 0 | 6,2845 | 1,1823 |



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|---|---------|---------|----------|-----------|---------|---------|---------|---|---------|---------|
| | 07 | | 23 | 56 | 2 | 6 | | | | 3 |
| 1 | 12,0088 | 125,04 | 3,74899 | 33.889,91 | 31,9365 | 8,80316 | 19,0442 | 0 | 5,81537 | 1,18247 |
| 1 | 14,3826 | 138,275 | 3,3906 | 31.372,35 | 37,467 | 9,08237 | 19,2508 | 0 | 5,37387 | 1,18261 |
| 1 | 17,2311 | 152,95 | 2,92284 | 29.013,35 | 44,1183 | 9,44886 | 19,4435 | 0 | 4,96223 | 1,18277 |
| 1 | 20,6493 | 169,213 | 2,31491 | 26.810,08 | 52,1057 | 9,9352 | 19,6227 | 0 | 4,58279 | 1,18294 |
| 1 | 24,7512 | 187,227 | 1,52743 | 24.758,68 | 61,679 | 10,5766 | 19,7879 | 0 | 4,23864 | 1,18314 |
| 1 | 29,6734 | 207,253 | 0,516615 | 22.846,36 | 73,0692 | 11,42 | 20,0191 | 0 | 3,93305 | 1,18308 |
| 1 | 29,9564 | 208,361 | 0,457114 | 22.750,14 | 73,7145 | 11,4709 | 20,0419 | 0 | 3,91823 | 1,18304 |
| 1 | 32,0713 | 216,497 | 0,01 | 22.072,27 | 78,467 | 11,8561 | 20,2008 | 0 | 3,81579 | 1,18277 |
| 1 | 32,0713 | 216,497 | 0 | 22.072,28 | 78,467 | 11,876 | 20,2005 | 0 | 3,81261 | 1,18277 |
| 1 | 35,5801 | 229,508 | 0 | 21.307,38 | 86,1403 | 11,733 | 20,4025 | 0 | 3,64401 | 1,18229 |
| 1 | 42,6681 | 254,298 | 0 | 19.988,73 | 101,018 | 11,5721 | 20,7593 | 0 | 3,3625 | 1,18143 |
| 1 | 51,1737 | 281,777 | 0 | 18.720,57 | 117,878 | 11,491 | 21,116 | 0 | 3,10223 | 1,18055 |
| 1 | 61,3805 | 312,187 | 0 | 17.523,46 | 136,868 | 11,4593 | 21,4694 | 0 | 2,86567 | 1,17965 |
| 1 | 73,6286 | 345,903 | 0 | 16.384,49 | 158,091 | 11,4715 | 21,8228 | 0 | 2,65379 | 1,17874 |
| 1 | 88,3263 | 383,477 | 0 | 15.110,05 | 181,536 | 11,6572 | 22,2104 | 0 | 2,46931 | 1,17774 |
| 1 | 105,964 | 425,674 | 0 | 13.617,41 | 206,962 | 12,0895 | 22,6356 | 0 | 2,32078 | 1,17678 |
| 1 | 127,128 | 473,636 | 0 | 11.927,22 | 233,795 | 12,7984 | 23,0773 | 0 | 2,21894 | 1,17567 |
| 1 | 152,526 | 529,255 | 0 | 10.073,65 | 261,022 | 13,8812 | 23,5101 | 0 | 2,17281 | 1,17476 |
| 1 | 172,7 | 573,204 | 0 | 8.771,7 | 279,09 | 14,892 | 23,7833 | 0 | 2,1771 | 1,1742 |



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|---|-------------|---------|-------------|----------------|--------------|--------------|----------|---|-------------|-------------|
| | 54 | | | 9 | 6 | 8 | | | 8 | 4 |
| 2 | 3600 | 0 | 5 | 999.99 9,37 | 0,3573 17 | 0,1713 72 | -160,343 | 0 | 236,89 1 | 2,0336 7 |
| 2 | 3600, 01 | 1,86186 | 4,999 85 | 737.96 4,65 | 0,6219 45 | 0,3099 1 | -109,048 | 0 | 152,06 3 | 1,5729 3 |
| 2 | 3600, 02 | 3,19342 | 4,999 52 | 611.70 6,44 | 0,8323 46 | 0,4165 14 | -82,6482 | 0 | 118,75 5 | 1,4374 2 |
| 2 | 3600, 03 | 4,28046 | 4,999 09 | 534.03 2,03 | 1,0118 6 | 0,5065 34 | -65,8674 | 0 | 100,18 5 | 1,369 |
| 2 | 3600, 04 | 5,21783 | 4,998 58 | 480.05 0,86 | 1,1708 5 | 0,5860 3 | -53,9784 | 0 | 88,041 1 | 1,3266 4 |
| 2 | 3600, 05 | 6,04963 | 4,998 02 | 439.75 9,91 | 1,3147 5 | 0,6579 22 | -45,0165 | 0 | 79,353 6 | 1,2975 5 |
| 2 | 3600, 06 | 6,80641 | 4,997 43 | 408.10 3,50 | 1,4474 4 | 0,7241 92 | -37,9664 | 0 | 72,741 2 | 1,2762 4 |
| 2 | 3600, 07 | 7,50488 | 4,996 8 | 382.36 5,09 | 1,5711 3 | 0,7859 66 | -32,2739 | 0 | 67,497 5 | 1,2600 5 |
| 2 | 3600, 08 | 8,15677 | 4,996 15 | 360.88 6,35 | 1,6874 3 | 0,8440 47 | -27,5909 | 0 | 63,209 6 | 1,2474 3 |
| 2 | 3600, 09 | 8,77015 | 4,995 48 | 342.60 1,44 | 1,7974 7 | 0,8990 11 | -23,6846 | 0 | 59,620 6 | 1,2374 2 |
| 2 | 3600, 1 | 9,35126 | 4,994 8 | 326.78 0,74 | 1,9021 8 | 0,9513 12 | -20,3878 | 0 | 56,559 7 | 1,2293 7 |
| 2 | 3600, 11 | 9,90435 | 4,994 11 | 312.91 8,63 | 2,0022 1 | 1,0012 8 | -17,5789 | 0 | 53,911 3 | 1,2228 3 |
| 2 | 3600, 12 | 10,4319 | 4,993 41 | 300.65 8,03 | 2,0979 8 | 1,0491 2 | -15,1675 | 0 | 51,593 6 | 1,2174 8 |
| 2 | 3600, 13 | 10,9366 | 4,992 7 | 289.71 7,23 | 2,1899 3 | 1,0950 6 | -13,0802 | 0 | 49,545 5 | 1,2130 5 |
| 2 | 3600, 14 | 11,4212 | 4,991 99 | 279.87 0,21 | 2,2785 2 | 1,1393 1 | -11,258 | 0 | 47,717 9 | 1,2093 6 |
| 2 | 3600, 15 | 11,8881 | 4,991 28 | 270.94 2,52 | 2,3641 2 | 1,1820 7 | -9,65451 | 0 | 46,073 7 | 1,2062 5 |
| 2 | 3600, 16 | 12,3399 | 4,990 56 | 262.78 6,02 | 2,4471 5 | 1,2235 5 | -8,23151 | 0 | 44,582 1 | 1,2036 1 |
| 2 | 3600, 17 | 12,7775 | 4,989 84 | 255.30 0,38 | 2,5277 8 | 1,2638 3 | -6,96157 | 0 | 43,221 8 | 1,2013 6 |



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|---|---------|---------|---------|------------|---------|---------|-----------|---|---------|---------|
| 2 | 3600,18 | 13,2018 | 4,98912 | 248.402,37 | 2,60619 | 1,303 | -5,82223 | 0 | 41,9756 | 1,19943 |
| 2 | 3600,19 | 13,6146 | 4,9884 | 242.010,53 | 2,68263 | 1,34119 | -4,7931 | 0 | 40,827 | 1,19776 |
| 2 | 3600,2 | 14,0162 | 4,98768 | 236.070,83 | 2,75722 | 1,37845 | -3,85973 | 0 | 39,7651 | 1,19631 |
| 2 | 3600,21 | 14,4852 | 4,98682 | 229.460,67 | 2,84455 | 1,42208 | -2,84687 | 0 | 38,5892 | 1,19482 |
| 2 | 3600,23 | 15,0304 | 4,98578 | 222.187,00 | 2,94639 | 1,47295 | -1,76358 | 0 | 37,3025 | 1,19328 |
| 2 | 3600,24 | 15,6618 | 4,98453 | 214.266,20 | 3,06482 | 1,53211 | -0,620627 | 0 | 35,9098 | 1,19178 |
| 2 | 3600,26 | 16,3913 | 4,98304 | 205.730,81 | 3,20145 | 1,60037 | 0,437891 | 0 | 34,4189 | 1,19091 |
| 2 | 3600,29 | 17,2313 | 4,98124 | 196.633,61 | 3,36076 | 1,67995 | 1,7148 | 0 | 32,841 | 1,18936 |
| 2 | 3600,32 | 18,1913 | 4,97908 | 187.078,74 | 3,54418 | 1,77157 | 3,01381 | 0 | 31,1959 | 1,18789 |
| 2 | 3600,35 | 19,2822 | 4,97648 | 177.174,95 | 3,75447 | 1,87662 | 4,3159 | 0 | 29,5039 | 1,18655 |
| 2 | 3600,4 | 20,5171 | 4,97335 | 167.023,18 | 3,99514 | 1,99684 | 5,60521 | 0 | 27,7831 | 1,18535 |
| 2 | 3600,45 | 21,9083 | 4,96958 | 156.741,61 | 4,2699 | 2,13408 | 6,8658 | 0 | 26,0543 | 1,18432 |
| 2 | 3600,51 | 23,4671 | 4,96503 | 146.449,84 | 4,58307 | 2,29052 | 8,08384 | 0 | 24,3379 | 1,18345 |
| 2 | 3600,59 | 25,2079 | 4,95951 | 136.261,38 | 4,93986 | 2,46873 | 9,24823 | 0 | 22,6528 | 1,18274 |
| 2 | 3600,67 | 27,1473 | 4,95278 | 126.311,92 | 5,34525 | 2,67123 | 10,3472 | 0 | 21,0211 | 1,18219 |
| 2 | 3600,78 | 29,3018 | 4,94452 | 116.716,05 | 5,80514 | 2,90095 | 11,373 | 0 | 19,461 | 1,18178 |
| 2 | 3600,91 | 31,6932 | 4,93427 | 107.536,90 | 6,32796 | 3,16211 | 12,3242 | 0 | 17,982 | 1,18149 |
| 2 | 3601,06 | 34,3445 | 4,92142 | 98.808,27 | 6,92455 | 3,46012 | 13,2026 | 0 | 16,5889 | 1,18132 |
| 2 | 3601,25 | 37,2788 | 4,9051 | 90.552,99 | 7,60729 | 3,80118 | 14,0108 | 0 | 15,2849 | 1,18123 |



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| 2 | 3601, 47 | 40,5208 | 4,884 04 | 82.771, 28 | 8,3912 1 | 4,1927 9 | 14,7534 | 0 | 14,069 3 | 1,1812 1 |
| 2 | 3601, 57 | 41,8953 | 4,874 12 | 79.892, 94 | 8,7266 2 | 4,3603 6 | 15,0234 | 0 | 13,617 5 | 1,1812 2 |
| 2 | 3601, 57 | 41,8953 | 4,874 12 | 79.892, 94 | 8,7266 2 | 4,3603 6 | 15,0234 | 0 | 13,617 5 | 1,1812 2 |
| 2 | 3601, 74 | 44,1125 | 4,857 41 | 76.017, 71 | 9,0278 2 | 4,7538 4 | 15,3833 | 0 | 12,989 8 | 1,1812 5 |
| 2 | 3602, 06 | 48,1062 | 4,827 47 | 70.443, 14 | 9,6289 3 | 5,3775 1 | 15,8938 | 0 | 12,058 3 | 1,1813 1 |
| 2 | 3602, 44 | 52,5602 | 4,794 89 | 65.472, 18 | 10,382 3 | 5,9670 9 | 16,3417 | 0 | 11,219 1 | 1,1813 9 |
| 2 | 3602, 9 | 57,5358 | 4,758 34 | 60.917, 03 | 11,320 3 | 6,5069 7 | 16,7464 | 0 | 10,449 7 | 1,1814 8 |
| 2 | 3603, 45 | 63,0985 | 4,715 26 | 56.704, 86 | 12,481 4 | 6,9793 2 | 17,1158 | 0 | 9,7379 9 | 1,1815 9 |
| 2 | 3604, 11 | 69,3172 | 4,662 02 | 52.789, 46 | 13,910 8 | 7,3753 1 | 17,4552 | 0 | 9,0749 3 | 1,1817 3 |
| 2 | 3604, 91 | 76,2699 | 4,593 76 | 49.128, 23 | 15,661 8 | 7,6998 9 | 17,7692 | 0 | 8,4523 5 | 1,1818 1 |
| 2 | 3605, 86 | 84,0391 | 4,504 34 | 45.691, 98 | 17,797 5 | 7,9649 5 | 18,061 | 0 | 7,8647 9 | 1,1819 3 |
| 2 | 3607, 01 | 92,711 | 4,386 11 | 42.461, 17 | 20,393 3 | 8,1870 3 | 18,3329 | 0 | 7,3087 7 | 1,1820 6 |
| 2 | 3608, 38 | 102,375 | 4,229 46 | 39.422, 33 | 23,539 4 | 8,3859 4 | 18,5867 | 0 | 6,7822 7 | 1,1821 9 |
| 2 | 3610, 03 | 113,119 | 4,022 23 | 36.567, 56 | 27,344 2 | 8,5830 6 | 18,8235 | 0 | 6,2845 | 1,1823 3 |
| 2 | 3612, 01 | 125,04 | 3,748 99 | 33.889, 91 | 31,936 5 | 8,8031 6 | 19,0442 | 0 | 5,8153 7 | 1,1824 7 |
| 2 | 3614, 38 | 138,275 | 3,390 6 | 31.372, 35 | 37,467 35 | 9,0823 7 | 19,2508 | 0 | 5,3738 7 | 1,1826 1 |
| 2 | 3617, 23 | 152,95 | 2,922 84 | 29.013, 35 | 44,118 3 | 9,4488 6 | 19,4435 | 0 | 4,9622 3 | 1,1827 7 |
| 2 | 3620, 65 | 169,213 | 2,314 91 | 26.810, 08 | 52,105 7 | 9,9352 | 19,6227 | 0 | 4,5827 9 | 1,1829 4 |
| 2 | 3624, 75 | 187,227 | 1,527 43 | 24.758, 68 | 61,679 | 10,576 6 | 19,7879 | 0 | 4,2386 4 | 1,1831 4 |

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|---|---------|---------|----------|-----------|---------|---------|---------|---|---------|---------|
| 2 | 3629,67 | 207,253 | 0,516615 | 22.846,36 | 73,0692 | 11,42 | 20,0191 | 0 | 3,93305 | 1,18308 |
| 2 | 3629,96 | 208,361 | 0,457114 | 22.750,14 | 73,7145 | 11,4709 | 20,0419 | 0 | 3,91823 | 1,18304 |
| 2 | 3632,07 | 216,497 | 0,01 | 22.072,27 | 78,467 | 11,8561 | 20,2008 | 0 | 3,81579 | 1,18277 |
| 2 | 3632,07 | 216,497 | 0 | 22.072,28 | 78,467 | 11,876 | 20,2005 | 0 | 3,81261 | 1,18277 |
| 2 | 3635,58 | 229,508 | 0 | 21.307,38 | 86,1403 | 11,733 | 20,4025 | 0 | 3,64401 | 1,18229 |
| 2 | 3642,67 | 254,298 | 0 | 19.988,73 | 101,018 | 11,5721 | 20,7593 | 0 | 3,3625 | 1,18143 |
| 2 | 3651,17 | 281,777 | 0 | 18.720,57 | 117,878 | 11,491 | 21,116 | 0 | 3,10223 | 1,18055 |
| 2 | 3661,38 | 312,187 | 0 | 17.523,46 | 136,868 | 11,4593 | 21,4694 | 0 | 2,86567 | 1,17965 |
| 2 | 3673,63 | 345,903 | 0 | 16.384,49 | 158,091 | 11,4715 | 21,8228 | 0 | 2,65379 | 1,17874 |
| 2 | 3688,33 | 383,477 | 0 | 15.110,05 | 181,536 | 11,6572 | 22,2104 | 0 | 2,46931 | 1,17774 |
| 2 | 3705,96 | 425,674 | 0 | 13.617,41 | 206,962 | 12,0895 | 22,6356 | 0 | 2,32078 | 1,1767 |
| 2 | 3727,13 | 473,636 | 0 | 11.927,22 | 233,795 | 12,7984 | 23,0773 | 0 | 2,21894 | 1,17567 |
| 2 | 3752,53 | 529,255 | 0 | 10.073,65 | 261,022 | 13,8812 | 23,5101 | 0 | 2,17281 | 1,17476 |
| 2 | 3772,75 | 573,204 | 0 | 8.771,9 | 279,096 | 14,8928 | 23,7833 | 0 | 2,17718 | 1,17424 |

Weather: Category 5/D

| | |
|--------------------------------|--|
| Wind speed [m/s] | 5 |
| Pasquill stability | D neutral - little sun and high wind or overcast/windy night |
| Atmospheric temperature [degC] | 25 |
| Relative humidity [fraction] | 0,75 |
| Solar radiation flux [kW/m2] | 0,5 |
| Mixing layer height [m] | 800 |

Observer Release Data and Observer Mass Data

| Observer number | Release type | Start time [s] | Start downwind distance [m] | Unit | Masses or mass rates | | |
|-----------------|--------------|----------------|-----------------------------|------|----------------------|---------|-------|
| | | | | | Release | Rainout | Final |
| 1 | Continuous | 0 | 0 | kg/s | 59 | 0 | 59 |
| 2 | Continuous | 3600 | 0 | kg/s | 59 | 0 | 59 |

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

| Observer number | Time [s] | Down wind distance [m] | C/Li ne height [m] | C/Li ne conc [ppm] | Effect ive width [m] | Effect ive depth [m] | C/Line vapour temperature [degC] | C/Li ne liquid fraction | Centr oid velocity [m/s] | C/Li ne cloud density [kg/m3] |
|-----------------|----------|------------------------|--------------------|--------------------|----------------------|----------------------|----------------------------------|-------------------------|--------------------------|-------------------------------|
| 1 | 0 | 0 | 5 | 999.99 | 0,3574 | 0,1713 | -160,343 | 0 | 236,89 | 2,0336 |
| | | | | 9,37 | 67 | | | | 1 | 7 |
| 1 | 0,01 | 1,86262 | 4,999 | 734.70 | 0,6244 | 0,3110 | -108,452 | 0 | 152,15 | 1,5696 |
| | | | 85 | 1,19 | 74 | 08 | | | 2 | 6 |
| 1 | 0,02 | 3,19488 | 4,999 | 606.20 | 0,8385 | 0,4194 | -81,5824 | 0 | 118,79 | 1,4330 |
| | | | 53 | 0,38 | 77 | 13 | | | 3 | 7 |



| | | | | | | | | | | |
|---|-------|---------|-------------|----------------|-------------|--------------|-----------|---|-------------|-------------|
| 1 | 0,03 | 4,28207 | 4,999 1 | 526.91 3,65 | 1,0225 2 | 0,5116 23 | -64,4434 | 0 | 100,17 | 1,3640 6 |
| 1 | 0,04 | 5,21901 | 4,998 6 | 471.69 0,40 | 1,1864 7 | 0,5935 91 | -52,273 | 0 | 87,978 6 | 1,3213 2 |
| 1 | 0,05 | 6,04991 | 4,998 06 | 430.39 1,66 | 1,3357 6 | 0,6681 8 | -43,089 | 0 | 79,247 3 | 1,2919 9 |
| 1 | 0,06 | 6,8054 | 4,997 48 | 397.89 7,68 | 1,4741 3 | 0,7373 09 | -35,8696 | 0 | 72,596 8 | 1,2705 8 |
| 1 | 0,07 | 7,50225 | 4,996 88 | 371.44 7,18 | 1,6037 4 | 0,8020 65 | -30,0544 | 0 | 67,319 7 | 1,2544 |
| 1 | 0,08 | 8,1522 | 4,996 26 | 349.35 3,21 | 1,7261 4 | 0,8632 26 | -25,2888 | 0 | 63,002 3 | 1,2418 8 |
| 1 | 0,09 | 8,76336 | 4,995 63 | 330.52 9,55 | 1,8424 5 | 0,9213 49 | -21,3324 | 0 | 59,387 3 | 1,2320 6 |
| 1 | 0,1 | 9,34203 | 4,994 99 | 314.23 2,16 | 1,9535 6 | 0,9768 8 | -18,011 | 0 | 56,303 3 | 1,2242 4 |
| 1 | 0,11 | 9,89246 | 4,994 34 | 299.94 3,59 | 2,0601 2 | 1,0301 4 | -15,1958 | 0 | 53,633 7 | 1,2179 6 |
| 1 | 0,12 | 10,4172 | 4,993 69 | 287.29 6,01 | 2,1625 7 | 1,0813 5 | -12,7902 | 0 | 51,297 8 | 1,2128 8 |
| 1 | 0,13 | 10,9189 | 4,993 03 | 276.00 0,70 | 2,2613 4 | 1,1307 3 | -10,7168 | 0 | 49,230 6 | 1,2087 2 |
| 1 | 0,14 | 11,4004 | 4,992 38 | 265.82 7,60 | 2,3568 9 | 1,1784 9 | -8,91351 | 0 | 47,385 9 | 1,2052 9 |
| 1 | 0,15 | 11,864 | 4,991 72 | 256.59 9,28 | 2,4495 7 | 1,2248 3 | -7,33207 | 0 | 45,725 7 | 1,2024 4 |
| 1 | 0,16 | 12,3124 | 4,991 07 | 248.16 5,73 | 2,5398 1 | 1,2699 4 | -5,93299 | 0 | 44,219 4 | 1,2000 5 |
| 1 | 0,17 | 12,7463 | 4,990 42 | 240.42 6,14 | 2,6277 3 | 1,3139 | -4,68815 | 0 | 42,846 | 1,1980 3 |
| 1 | 0,18 | 13,1669 | 4,989 76 | 233.28 9,62 | 2,7135 5 | 1,3568 1 | -3,57349 | 0 | 41,587 3 | 1,1963 1 |
| 1 | 0,19 | 13,5757 | 4,989 11 | 226.67 7,21 | 2,7975 | 1,3987 8 | -2,56894 | 0 | 40,427 4 | 1,1948 4 |
| 1 | 0,2 | 13,9733 | 4,988 47 | 220.52 9,39 | 2,8797 1 | 1,4398 8 | -1,65914 | 0 | 39,354 6 | 1,1935 8 |
| 1 | 0,212 | 14,4374 | 4,987 69 | 213.68 8,07 | 2,9763 2 | 1,4881 8 | -0,673707 | 0 | 38,166 9 | 1,1922 9 |



| | | | | | | | | | | |
|---|--------------|---------|-------------|----------------|-------------|-------------|----------|---|-------------|-------------|
| 1 | 0,226 4 | 14,9764 | 4,986 76 | 206.15 8,09 | 3,0886 9 | 1,5443 7 | 0,240198 | 0 | 36,867 2 | 1,1916 |
| 1 | 0,243 68 | 15,6002 | 4,985 66 | 197.95 7,45 | 3,2211 6 | 1,6106 | 1,39734 | 0 | 35,460 6 | 1,1901 7 |
| 1 | 0,264 416 | 16,3198 | 4,984 34 | 189.12 2,07 | 3,3758 | 1,6879 2 | 2,60832 | 0 | 33,955 4 | 1,1887 8 |
| 1 | 0,289 299 | 17,1456 | 4,982 76 | 179.72 0,51 | 3,5558 2 | 1,7779 3 | 3,85718 | 0 | 32,365 3 | 1,1874 5 |
| 1 | 0,319 159 | 18,09 | 4,980 87 | 169.83 1,48 | 3,7651 6 | 1,8825 9 | 5,12785 | 0 | 30,705 5 | 1,1862 3 |
| 1 | 0,354 991 | 19,164 | 4,978 62 | 159.56 3,91 | 4,0081 4 | 2,0040 8 | 6,40211 | 0 | 28,996 | 1,1851 3 |
| 1 | 0,397 989 | 20,3774 | 4,975 93 | 149.04 2,32 | 4,2897 6 | 2,1448 9 | 7,66208 | 0 | 27,259 | 1,1841 8 |
| 1 | 0,449 587 | 21,7426 | 4,972 72 | 138.38 4,61 | 4,6164 5 | 2,3082 4 | 8,89298 | 0 | 25,514 8 | 1,1833 9 |
| 1 | 0,511 504 | 23,2696 | 4,968 87 | 127.71 6,95 | 4,9958 8 | 2,4979 5 | 10,0813 | 0 | 23,785 | 1,1827 6 |
| 1 | 0,585 805 | 24,9694 | 4,964 23 | 117.15 4,69 | 5,4379 | 2,7189 6 | 11,2167 | 0 | 22,088 9 | 1,1822 9 |
| 1 | 0,674 966 | 26,8596 | 4,958 62 | 106.78 5,83 | 5,9558 5 | 2,9779 4 | 12,2934 | 0 | 20,441 2 | 1,1819 6 |
| 1 | 0,781 959 | 28,9622 | 4,951 77 | 96.687, 29 | 6,5669 4 | 3,2834 9 | 13,3074 | 0 | 18,855 1 | 1,1817 6 |
| 1 | 0,910 351 | 31,2931 | 4,943 3 | 86.941, 59 | 7,2918 5 | 3,6459 4 | 14,2553 | 0 | 17,344 1 | 1,1816 7 |
| 1 | 1,064 42 | 33,8603 | 4,932 7 | 77.625, 85 | 8,1551 2 | 4,0775 8 | 15,1343 | 0 | 15,920 7 | 1,1816 9 |
| 1 | 1,184 77 | 35,7226 | 4,924 05 | 71.740, 87 | 8,8158 8 | 4,4079 6 | 15,6765 | 0 | 15,030 8 | 1,1817 4 |
| 1 | 1,184 77 | 35,7226 | 4,924 05 | 71.740, 87 | 8,8158 8 | 4,4079 6 | 15,6765 | 0 | 15,030 8 | 1,1817 4 |
| 1 | 1,249 31 | 36,68 | 4,919 33 | 69.321, 42 | 9,1244 5 | 4,5622 5 | 15,897 | 0 | 14,654 1 | 1,1817 7 |
| 1 | 1,471 17 | 39,815 | 4,903 35 | 63.166, 25 | 10,03 | 5,0150 3 | 16,4519 | 0 | 13,668 | 1,1818 6 |
| 1 | 1,641 6 | 42,094 | 4,891 46 | 59.680, 43 | 10,632 5 | 5,3162 6 | 16,7623 | 0 | 13,098 8 | 1,1819 2 |



| | | | | | | | | | | |
|---|-------------|---------|-------------|---------------|-------------|-------------|---------|---|-------------|-------------|
| 1 | 1,641 6 | 42,094 | 4,891 46 | 59.680, 43 | 10,632 5 | 5,3162 6 | 16,7623 | 0 | 13,098 8 | 1,1819 2 |
| 1 | 1,737 4 | 43,3361 | 4,884 9 | 58.039, 60 | 10,819 2 | 5,5527 8 | 16,9076 | 0 | 12,837 | 1,1819 5 |
| 1 | 2,056 88 | 47,3219 | 4,863 4 | 53.739, 97 | 11,461 8 | 6,1902 5 | 17,2859 | 0 | 12,140 3 | 1,1820 4 |
| 1 | 2,440 26 | 51,8522 | 4,837 71 | 49.995, 50 | 12,263 | 6,7370 7 | 17,6129 | 0 | 11,52 | 1,1821 3 |
| 1 | 2,900 31 | 57,0149 | 4,806 06 | 46.604, 60 | 13,253 7 | 7,1977 6 | 17,9073 | 0 | 10,947 2 | 1,1822 1 |
| 1 | 3,452 37 | 62,9059 | 4,766 02 | 43.465, 21 | 14,470 4 | 7,5761 | 18,1788 | 0 | 10,406 3 | 1,1822 9 |
| 1 | 4,114 84 | 69,6271 | 4,714 53 | 40.534, 69 | 15,956 7 | 7,8724 1 | 18,4318 | 0 | 9,8900 4 | 1,1823 6 |
| 1 | 4,909 81 | 77,2921 | 4,647 76 | 37.778, 52 | 17,763 7 | 8,0948 9 | 18,6699 | 0 | 9,3936 6 | 1,1824 3 |
| 1 | 5,863 77 | 86,0203 | 4,560 91 | 35.185, 18 | 19,951 8 | 8,2510 7 | 18,8949 | 0 | 8,9152 4 | 1,1824 9 |
| 1 | 7,008 53 | 95,9483 | 4,448 17 | 32.744, 31 | 22,590 7 | 8,3545 8 | 19,1085 | 0 | 8,4534 9 | 1,1825 3 |
| 1 | 8,382 23 | 107,247 | 4,302 81 | 30.440, 83 | 25,758 9 | 8,4267 5 | 19,3129 | 0 | 8,0073 1 | 1,1825 7 |
| 1 | 10,03 07 | 120,088 | 4,117 1 | 28.282, 18 | 29,551 1 | 8,4788 6 | 19,5088 | 0 | 7,5778 6 | 1,1825 8 |
| 1 | 12,00 88 | 134,666 | 3,882 04 | 26.268, 71 | 34,075 2 | 8,5251 | 19,6975 | 0 | 7,1672 6 | 1,1825 7 |
| 1 | 14,38 26 | 151,198 | 3,588 82 | 24.272, 97 | 39,425 2 | 8,6628 3 | 20,0219 | 0 | 6,7726 2 | 1,1820 6 |
| 1 | 16,44 51 | 164,877 | 3,337 85 | 22.750, 14 | 43,837 7 | 8,8961 8 | 20,4521 | 0 | 6,4981 9 | 1,1810 3 |
| 1 | 17,23 11 | 169,936 | 3,246 43 | 22.211, 71 | 45,445 6 | 9,0051 4 | 20,6046 | 0 | 6,4079 5 | 1,1806 6 |
| 1 | 20,64 93 | 191,153 | 2,883 98 | 20.089, 19 | 52,004 | 9,5563 7 | 21,2024 | 0 | 6,0892 8 | 1,1792 3 |
| 1 | 24,75 12 | 215,546 | 2,508 49 | 17.938, 44 | 59,167 4 | 10,296 4 | 21,7975 | 0 | 5,8206 1 | 1,1778 4 |
| 1 | 29,67 34 | 243,645 | 2,142 17 | 15.781, 98 | 66,752 4 | 11,238 5 | 22,3725 | 0 | 5,6142 1 | 1,1765 3 |



| | | | | | | | | | | |
|---|-------------|---------|-------------|----------------|--------------|--------------|----------|---|-------------|-------------|
| 1 | 35,58 01 | 276,335 | 1,807 14 | 13.663, 29 | 74,530 5 | 12,399 9 | 22,9058 | 0 | 5,4754 9 | 1,1753 7 |
| 1 | 39,82 43 | 299,447 | 1,625 63 | 12.391, 11 | 79,301 6 | 13,246 1 | 23,2069 | 0 | 5,4247 1 | 1,1747 5 |
| 2 | 3600 | 0 | 5 | 999.99 9,37 | 0,3574 67 | 0,1713 | -160,343 | 0 | 236,89 1 | 2,0336 7 |
| 2 | 3600, 01 | 1,86262 | 4,999 85 | 734.70 1,19 | 0,6244 74 | 0,3110 08 | -108,452 | 0 | 152,15 2 | 1,5696 6 |
| 2 | 3600, 02 | 3,19488 | 4,999 53 | 606.20 0,38 | 0,8385 77 | 0,4194 13 | -81,5824 | 0 | 118,79 3 | 1,4330 7 |
| 2 | 3600, 03 | 4,28207 | 4,999 1 | 526.91 3,65 | 1,0225 2 | 0,5116 23 | -64,4434 | 0 | 100,17 | 1,3640 6 |
| 2 | 3600, 04 | 5,21901 | 4,998 6 | 471.69 0,40 | 1,1864 7 | 0,5935 91 | -52,273 | 0 | 87,978 6 | 1,3213 2 |
| 2 | 3600, 05 | 6,04991 | 4,998 06 | 430.39 1,66 | 1,3357 6 | 0,6681 8 | -43,089 | 0 | 79,247 3 | 1,2919 9 |
| 2 | 3600, 06 | 6,8054 | 4,997 48 | 397.89 7,68 | 1,4741 3 | 0,7373 09 | -35,8696 | 0 | 72,596 8 | 1,2705 8 |
| 2 | 3600, 07 | 7,50225 | 4,996 88 | 371.44 7,18 | 1,6037 4 | 0,8020 65 | -30,0544 | 0 | 67,319 7 | 1,2544 |
| 2 | 3600, 08 | 8,1522 | 4,996 26 | 349.35 3,21 | 1,7261 4 | 0,8632 26 | -25,2888 | 0 | 63,002 3 | 1,2418 8 |
| 2 | 3600, 09 | 8,76336 | 4,995 63 | 330.52 9,55 | 1,8424 5 | 0,9213 49 | -21,3324 | 0 | 59,387 3 | 1,2320 6 |
| 2 | 3600, 1 | 9,34203 | 4,994 99 | 314.23 2,16 | 1,9535 6 | 0,9768 8 | -18,011 | 0 | 56,303 3 | 1,2242 4 |
| 2 | 3600, 11 | 9,89246 | 4,994 34 | 299.94 3,59 | 2,0601 2 | 1,0301 4 | -15,1958 | 0 | 53,633 7 | 1,2179 6 |
| 2 | 3600, 12 | 10,4172 | 4,993 69 | 287.29 6,01 | 2,1625 7 | 1,0813 5 | -12,7902 | 0 | 51,297 | 1,2128 8 |
| 2 | 3600, 13 | 10,9189 | 4,993 03 | 276.00 0,70 | 2,2613 4 | 1,1307 3 | -10,7168 | 0 | 49,230 6 | 1,2087 2 |
| 2 | 3600, 14 | 11,4004 | 4,992 38 | 265.82 7,60 | 2,3568 9 | 1,1784 9 | -8,91351 | 0 | 47,385 9 | 1,2052 9 |
| 2 | 3600, 15 | 11,864 | 4,991 72 | 256.59 9,28 | 2,4495 7 | 1,2248 3 | -7,33207 | 0 | 45,725 7 | 1,2024 4 |
| 2 | 3600, | 12,3124 | 4,991 | 248.16 | 2,5398 | 1,2699 | -5,93299 | 0 | 44,219 | 1,2000 |



| | | | | | | | | | | |
|---|----------|---------|----------|-------------|----------|----------|-----------|---|----------|----------|
| | 16 | | 07 | 5,73 | 1 | 4 | | | 4 | 5 |
| 2 | 3600, 17 | 12,7463 | 4,990 42 | 240.42 6,14 | 2,6277 3 | 1,3139 | -4,68815 | 0 | 42,846 | 1,1980 3 |
| 2 | 3600, 18 | 13,1669 | 4,989 76 | 233.28 9,62 | 2,7135 5 | 1,3568 1 | -3,57349 | 0 | 41,587 3 | 1,1963 1 |
| 2 | 3600, 19 | 13,5757 | 4,989 11 | 226.67 7,21 | 2,7975 | 1,3987 8 | -2,56894 | 0 | 40,427 4 | 1,1948 4 |
| 2 | 3600, 2 | 13,9733 | 4,988 47 | 220.52 9,39 | 2,8797 1 | 1,4398 8 | -1,65914 | 0 | 39,354 6 | 1,1935 8 |
| 2 | 3600, 21 | 14,4374 | 4,987 69 | 213.68 8,07 | 2,9763 2 | 1,4881 8 | -0,673707 | 0 | 38,166 9 | 1,1922 9 |
| 2 | 3600, 23 | 14,9764 | 4,986 76 | 206.15 8,09 | 3,0886 9 | 1,5443 7 | 0,240198 | 0 | 36,867 2 | 1,1916 |
| 2 | 3600, 24 | 15,6002 | 4,985 66 | 197.95 7,45 | 3,2211 6 | 1,6106 | 1,39734 | 0 | 35,460 6 | 1,1901 7 |
| 2 | 3600, 26 | 16,3198 | 4,984 34 | 189.12 2,07 | 3,3758 | 1,6879 2 | 2,60832 | 0 | 33,955 4 | 1,1887 8 |
| 2 | 3600, 29 | 17,1456 | 4,982 76 | 179.72 0,51 | 3,5558 2 | 1,7779 3 | 3,85718 | 0 | 32,365 3 | 1,1874 5 |
| 2 | 3600, 32 | 18,09 | 4,980 87 | 169.83 1,48 | 3,7651 6 | 1,8825 9 | 5,12785 | 0 | 30,705 5 | 1,1862 3 |
| 2 | 3600, 35 | 19,164 | 4,978 62 | 159.56 3,91 | 4,0081 4 | 2,0040 8 | 6,40211 | 0 | 28,996 | 1,1851 3 |
| 2 | 3600, 4 | 20,3774 | 4,975 93 | 149.04 2,32 | 4,2897 6 | 2,1448 9 | 7,66208 | 0 | 27,259 | 1,1841 8 |
| 2 | 3600, 45 | 21,7426 | 4,972 72 | 138.38 4,61 | 4,6164 5 | 2,3082 4 | 8,89298 | 0 | 25,514 8 | 1,1833 9 |
| 2 | 3600, 51 | 23,2696 | 4,968 87 | 127.71 6,95 | 4,9958 8 | 2,4979 5 | 10,0813 | 0 | 23,785 | 1,1827 6 |
| 2 | 3600, 59 | 24,9694 | 4,964 23 | 117.15 4,69 | 5,4379 | 2,7189 6 | 11,2167 | 0 | 22,088 9 | 1,1822 9 |
| 2 | 3600, 67 | 26,8596 | 4,958 62 | 106.78 5,83 | 5,9558 5 | 2,9779 4 | 12,2934 | 0 | 20,441 2 | 1,1819 6 |
| 2 | 3600, 78 | 28,9622 | 4,951 77 | 96.687, 29 | 6,5669 4 | 3,2834 9 | 13,3074 | 0 | 18,855 1 | 1,1817 6 |
| 2 | 3600, 91 | 31,2931 | 4,943 3 | 86.941, 59 | 7,2918 5 | 3,6459 4 | 14,2553 | 0 | 17,344 1 | 1,1816 7 |
| 2 | 3601, | 33,8603 | 4,932 | 77.625, | 8,1551 | 4,0775 | 15,1343 | 0 | 15,920 | 1,1816 |



| | | | | | | | | | | |
|---|----------|---------|----------|------------|----------|----------|---------|---|----------|----------|
| | 06 | | 7 | 85 | 2 | 8 | | | 7 | 9 |
| 2 | 3601, 18 | 35,7226 | 4,924 05 | 71.740, 87 | 8,8158 8 | 4,4079 6 | 15,6765 | 0 | 15,030 8 | 1,1817 4 |
| 2 | 3601, 18 | 35,7226 | 4,924 05 | 71.740, 87 | 8,8158 8 | 4,4079 6 | 15,6765 | 0 | 15,030 8 | 1,1817 4 |
| 2 | 3601, 25 | 36,68 | 4,919 33 | 69.321, 42 | 9,1244 5 | 4,5622 5 | 15,897 | 0 | 14,654 1 | 1,1817 7 |
| 2 | 3601, 47 | 39,815 | 4,903 35 | 63.166, 25 | 10,03 | 5,0150 3 | 16,4519 | 0 | 13,668 | 1,1818 6 |
| 2 | 3601, 64 | 42,094 | 4,891 46 | 59.680, 43 | 10,632 5 | 5,3162 6 | 16,7623 | 0 | 13,098 8 | 1,1819 2 |
| 2 | 3601, 64 | 42,094 | 4,891 46 | 59.680, 43 | 10,632 5 | 5,3162 6 | 16,7623 | 0 | 13,098 8 | 1,1819 2 |
| 2 | 3601, 74 | 43,3361 | 4,884 9 | 58.039, 60 | 10,819 2 | 5,5527 8 | 16,9076 | 0 | 12,837 | 1,1819 5 |
| 2 | 3602, 06 | 47,3219 | 4,863 4 | 53.739, 97 | 11,461 8 | 6,1902 5 | 17,2859 | 0 | 12,140 3 | 1,1820 4 |
| 2 | 3602, 44 | 51,8522 | 4,837 71 | 49.995, 50 | 12,263 | 6,7370 7 | 17,6129 | 0 | 11,52 | 1,1821 3 |
| 2 | 3602, 9 | 57,0149 | 4,806 06 | 46.604, 60 | 13,253 7 | 7,1977 6 | 17,9073 | 0 | 10,947 2 | 1,1822 1 |
| 2 | 3603, 45 | 62,9059 | 4,766 02 | 43.465, 21 | 14,470 4 | 7,5761 | 18,1788 | 0 | 10,406 3 | 1,1822 9 |
| 2 | 3604, 11 | 69,6271 | 4,714 53 | 40.534, 69 | 15,956 7 | 7,8724 1 | 18,4318 | 0 | 9,8900 4 | 1,1823 6 |
| 2 | 3604, 91 | 77,2921 | 4,647 76 | 37.778, 52 | 17,763 7 | 8,0948 9 | 18,6699 | 0 | 9,3936 6 | 1,1824 3 |
| 2 | 3605, 86 | 86,0203 | 4,560 91 | 35.185, 18 | 19,951 8 | 8,2510 7 | 18,8949 | 0 | 8,9152 4 | 1,1824 9 |
| 2 | 3607, 01 | 95,9483 | 4,448 17 | 32.744, 31 | 22,590 7 | 8,3545 8 | 19,1085 | 0 | 8,4534 9 | 1,1825 3 |
| 2 | 3608, 38 | 107,247 | 4,302 81 | 30.440, 83 | 25,758 9 | 8,4267 5 | 19,3129 | 0 | 8,0073 1 | 1,1825 7 |
| 2 | 3610, 03 | 120,088 | 4,117 1 | 28.282, 18 | 29,551 1 | 8,4788 6 | 19,5088 | 0 | 7,5778 6 | 1,1825 8 |
| 2 | 3612, 01 | 134,666 | 3,882 04 | 26.268, 71 | 34,075 2 | 8,5251 | 19,6975 | 0 | 7,1672 6 | 1,1825 7 |
| 2 | 3614, 01 | 151,198 | 3,588 | 24.272, | 39,425 | 8,6628 | 20,0219 | 0 | 6,7726 | 1,1820 |



| | | | | | | | | | | |
|---|---------|---------|---------|-----------|---------|---------|---------|---|---------|---------|
| | 38 | | 82 | 97 | 2 | 3 | | | 2 | 6 |
| 2 | 3616,45 | 164,877 | 3,33785 | 22.750,14 | 43,8377 | 8,89618 | 20,4521 | 0 | 6,49819 | 1,18103 |
| 2 | 3617,23 | 169,936 | 3,24643 | 22.211,71 | 45,4456 | 9,00514 | 20,6046 | 0 | 6,40795 | 1,18066 |
| 2 | 3620,65 | 191,153 | 2,88398 | 20.089,19 | 52,004 | 9,55637 | 21,2024 | 0 | 6,08928 | 1,17923 |
| 2 | 3624,75 | 215,546 | 2,50849 | 17.938,44 | 59,1674 | 10,2964 | 21,7975 | 0 | 5,82061 | 1,17784 |
| 2 | 3629,67 | 243,645 | 2,14217 | 15.781,98 | 66,7524 | 11,2385 | 22,3725 | 0 | 5,61421 | 1,17653 |
| 2 | 3635,58 | 276,335 | 1,80714 | 13.663,29 | 74,5305 | 12,3999 | 22,9058 | 0 | 5,47549 | 1,17537 |
| 2 | 3639,82 | 299,447 | 1,62563 | 12.391,11 | 79,3016 | 13,2461 | 23,2069 | 0 | 5,42471 | 1,17475 |

