## v velocities
| Unnamed: 0 | Unnamed: 1 | Time (ms) and v Velocity Component (m/s) | Unnamed: 3 | Unnamed: 4 | Unnamed: 5 | Unnamed: 6 | Unnamed: 7 | Unnamed: 8 | Unnamed: 9 | Unnamed: 10 | Unnamed: 11 | Unnamed: 12 | Unnamed: 13 | Unnamed: 14 | Unnamed: 15 | Unnamed: 16 | Unnamed: 17 | Unnamed: 18 | Unnamed: 19 | Unnamed: 20 | Unnamed: 21 | Unnamed: 22 | Unnamed: 23 | Unnamed: 24 | Unnamed: 25 | Unnamed: 26 | Unnamed: 27 | Unnamed: 28 | Unnamed: 29 | Unnamed: 30 | Unnamed: 31 | Unnamed: 32 | Unnamed: 33 | Unnamed: 34 | Unnamed: 35 | Unnamed: 36 | Unnamed: 37 | Unnamed: 38 | Unnamed: 39 | Unnamed: 40 | Unnamed: 41 | Unnamed: 42 | Unnamed: 43 | Unnamed: 44 | Unnamed: 45 | Unnamed: 46 | Unnamed: 47 | Unnamed: 48 | Unnamed: 49 | Unnamed: 50 | Unnamed: 51 | Unnamed: 52 | Unnamed: 53 | Unnamed: 54 | Unnamed: 55 | Unnamed: 56 | Unnamed: 57 | Unnamed: 58 | Unnamed: 59 | Unnamed: 60 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x coord (m) | y coord (m) | 16.666667 | 33.333333 | 50.000000 | 66.666667 | 83.333333 | 100.000000 | 116.666667 | 133.333333 | 150.000000 | 166.666667 | 183.333333 | 200.000000 | 216.666667 | 233.333333 | 250.000000 | 266.666667 | 283.333333 | 300.000000 | 316.666667 | 333.333333 | 350.000000 | 366.666667 | 383.333333 | 400.000000 | 416.666667 | 433.333333 | 450.000000 | 466.666667 | 483.333333 | 500.000000 | 516.666667 | 533.333333 | 550.000000 | 566.666667 | 583.333333 | 600.000000 | 616.666667 | 633.333333 | 650.000000 | 666.666667 | 683.333333 | 700.000000 | 716.666667 | 733.333333 | 750.000000 | 766.666667 | 783.333333 | 800.000000 | 816.666667 | 833.333333 | 850.000000 | 866.666667 | 883.333333 | 900.000000 | 916.666667 | 933.333333 | 950.000000 | 966.666667 | 983.333333 |
| 0.059799 | 0.001778 | -0.035114 | -0.065566 | -0.100225 | -0.100225 | -0.100225 | -0.100225 | -0.100225 | -0.100225 | -0.100225 | -0.100225 | -0.100225 | -0.065000 | -0.065000 | -0.010414 | -0.010414 | -0.069191 | -0.069191 | -0.095930 | -0.095930 | -0.014526 | -0.014526 | 0.015829 | 0.015829 | -0.077534 | -0.077534 | -0.045249 | -0.045249 | -0.095367 | -0.095367 | -0.057647 | -0.057647 | -0.020281 | -0.020281 | -0.011349 | -0.011349 | -0.058273 | -0.058273 | -0.071576 | -0.071576 | -0.097814 | -0.097814 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.078135 | -0.018992 | -0.018992 | -0.148159 | -0.148159 | -0.044039 | -0.044039 |
| 0.059802 | 0.003669 | -0.081265 | -0.064742 | -0.104949 | -0.104949 | -0.104949 | -0.104949 | -0.104949 | -0.104949 | -0.104949 | -0.104949 | -0.104949 | -0.084524 | -0.084524 | -0.043951 | -0.043951 | -0.050067 | -0.050067 | -0.073463 | -0.073463 | -0.075208 | -0.075208 | -0.078344 | -0.078344 | -0.087295 | -0.087295 | -0.061303 | -0.061303 | -0.102118 | -0.102118 | -0.058646 | -0.058646 | -0.079222 | -0.079222 | -0.072965 | -0.072965 | -0.076072 | -0.076072 | -0.064353 | -0.064353 | -0.074908 | -0.074908 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.075947 | -0.077168 | -0.077168 | -0.080145 | -0.080145 | -0.069783 | -0.069783 |
| 0.059804 | 0.00556 | -0.085411 | -0.062455 | -0.090353 | -0.090353 | -0.090353 | -0.090353 | -0.090353 | -0.090353 | -0.090353 | -0.090353 | -0.090353 | -0.086488 | -0.086488 | -0.055946 | -0.055946 | -0.059215 | -0.059215 | -0.062894 | -0.062894 | -0.078213 | -0.078213 | -0.070653 | -0.070653 | -0.076355 | -0.076355 | -0.075867 | -0.075867 | -0.079364 | -0.079364 | -0.071577 | -0.071577 | -0.090827 | -0.090827 | -0.071257 | -0.071257 | -0.068469 | -0.068469 | -0.078259 | -0.078259 | -0.069877 | -0.069877 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.071156 | -0.065523 | -0.065523 | -0.065999 | -0.065999 | -0.061730 | -0.061730 |
| 0.059807 | 0.007451 | -0.080974 | -0.060250 | -0.079656 | -0.079656 | -0.079656 | -0.079656 | -0.079656 | -0.079656 | -0.079656 | -0.079656 | -0.079656 | -0.069436 | -0.069436 | -0.065026 | -0.065026 | -0.062420 | -0.062420 | -0.066537 | -0.066537 | -0.077708 | -0.077708 | -0.074297 | -0.074297 | -0.067222 | -0.067222 | -0.062996 | -0.062996 | -0.070688 | -0.070688 | -0.069811 | -0.069811 | -0.090693 | -0.090693 | -0.069543 | -0.069543 | -0.066397 | -0.066397 | -0.069571 | -0.069571 | -0.067746 | -0.067746 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.071123 | -0.061846 | -0.061846 | -0.062157 | -0.062157 | -0.072126 | -0.072126 |
| 0.059809 | 0.009342 | -0.074582 | -0.071300 | -0.073754 | -0.073754 | -0.073754 | -0.073754 | -0.073754 | -0.073754 | -0.073754 | -0.073754 | -0.073754 | -0.070955 | -0.070955 | -0.067493 | -0.067493 | -0.070822 | -0.070822 | -0.054859 | -0.054859 | -0.071261 | -0.071261 | -0.079815 | -0.079815 | -0.056438 | -0.056438 | -0.061979 | -0.061979 | -0.062226 | -0.062226 | -0.054825 | -0.054825 | -0.076949 | -0.076949 | -0.067125 | -0.067125 | -0.075472 | -0.075472 | -0.068232 | -0.068232 | -0.058293 | -0.058293 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.069856 | -0.060603 | -0.060603 | -0.063384 | -0.063384 | -0.076147 | -0.076147 |
| 0.059811 | 0.011233 | -0.070491 | -0.074303 | -0.071008 | -0.071008 | -0.071008 | -0.071008 | -0.071008 | -0.071008 | -0.071008 | -0.071008 | -0.071008 | -0.067545 | -0.067545 | -0.068709 | -0.068709 | -0.066851 | -0.066851 | -0.061951 | -0.061951 | -0.066792 | -0.066792 | -0.069349 | -0.069349 | -0.064698 | -0.064698 | -0.061743 | -0.061743 | -0.064997 | -0.064997 | -0.071876 | -0.071876 | -0.072987 | -0.072987 | -0.071027 | -0.071027 | -0.082683 | -0.082683 | -0.065410 | -0.065410 | -0.061734 | -0.061734 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.066555 | -0.063381 | -0.063381 | -0.060810 | -0.060810 | -0.068663 | -0.068663 |
| 0.059814 | 0.013124 | -0.068801 | -0.077126 | -0.067237 | -0.067237 | -0.067237 | -0.067237 | -0.067237 | -0.067237 | -0.067237 | -0.067237 | -0.067237 | -0.073047 | -0.073047 | -0.061370 | -0.061370 | -0.061724 | -0.061724 | -0.060857 | -0.060857 | -0.063937 | -0.063937 | -0.061356 | -0.061356 | -0.071801 | -0.071801 | -0.061201 | -0.061201 | -0.067455 | -0.067455 | -0.074818 | -0.074818 | -0.071600 | -0.071600 | -0.080303 | -0.080303 | -0.064959 | -0.064959 | -0.060363 | -0.060363 | -0.072892 | -0.072892 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.066737 | -0.060267 | -0.060267 | -0.065627 | -0.065627 | -0.058720 | -0.058720 |
| 0.059816 | 0.015015 | -0.065871 | -0.065076 | -0.068749 | -0.068749 | -0.068749 | -0.068749 | -0.068749 | -0.068749 | -0.068749 | -0.068749 | -0.068749 | -0.074213 | -0.074213 | -0.062827 | -0.062827 | -0.060654 | -0.060654 | -0.059895 | -0.059895 | -0.069881 | -0.069881 | -0.062554 | -0.062554 | -0.065815 | -0.065815 | -0.056788 | -0.056788 | -0.064225 | -0.064225 | -0.071917 | -0.071917 | -0.069586 | -0.069586 | -0.066104 | -0.066104 | -0.068790 | -0.068790 | -0.059268 | -0.059268 | -0.079282 | -0.079282 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.064871 | -0.059209 | -0.059209 | -0.062546 | -0.062546 | -0.069972 | -0.069972 |
| 0.059819 | 0.016906 | -0.065420 | -0.063016 | -0.071760 | -0.071760 | -0.071760 | -0.071760 | -0.071760 | -0.071760 | -0.071760 | -0.071760 | -0.071760 | -0.069832 | -0.069832 | -0.058545 | -0.058545 | -0.063342 | -0.063342 | -0.058559 | -0.058559 | -0.064191 | -0.064191 | -0.063323 | -0.063323 | -0.063758 | -0.063758 | -0.059396 | -0.059396 | -0.060462 | -0.060462 | -0.069228 | -0.069228 | -0.068962 | -0.068962 | -0.056223 | -0.056223 | -0.076666 | -0.076666 | -0.054563 | -0.054563 | -0.073893 | -0.073893 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.062261 | -0.060557 | -0.060557 | -0.061508 | -0.061508 | -0.070639 | -0.070639 |
| 0.059821 | 0.018797 | -0.066462 | -0.065260 | -0.067794 | -0.067794 | -0.067794 | -0.067794 | -0.067794 | -0.067794 | -0.067794 | -0.067794 | -0.067794 | -0.058099 | -0.058099 | -0.063463 | -0.063463 | -0.068598 | -0.068598 | -0.060560 | -0.060560 | -0.062572 | -0.062572 | -0.063238 | -0.063238 | -0.060592 | -0.060592 | -0.064146 | -0.064146 | -0.061271 | -0.061271 | -0.062800 | -0.062800 | -0.065049 | -0.065049 | -0.049122 | -0.049122 | -0.064851 | -0.064851 | -0.053885 | -0.053885 | -0.063436 | -0.063436 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060910 | -0.060444 | -0.060444 | -0.064777 | -0.064777 | -0.066655 | -0.066655 |
| 0.059823 | 0.020688 | -0.066475 | -0.057889 | -0.064202 | -0.064202 | -0.064202 | -0.064202 | -0.064202 | -0.064202 | -0.064202 | -0.064202 | -0.064202 | -0.054283 | -0.054283 | -0.060025 | -0.060025 | -0.070362 | -0.070362 | -0.061986 | -0.061986 | -0.063648 | -0.063648 | -0.061553 | -0.061553 | -0.059004 | -0.059004 | -0.058834 | -0.058834 | -0.059815 | -0.059815 | -0.060544 | -0.060544 | -0.067788 | -0.067788 | -0.047779 | -0.047779 | -0.062689 | -0.062689 | -0.050697 | -0.050697 | -0.059135 | -0.059135 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.059635 | -0.067212 | -0.067212 | -0.062849 | -0.062849 | -0.060041 | -0.060041 |
| 0.059826 | 0.022579 | -0.066126 | -0.055783 | -0.065564 | -0.065564 | -0.065564 | -0.065564 | -0.065564 | -0.065564 | -0.065564 | -0.065564 | -0.065564 | -0.055313 | -0.055313 | -0.060519 | -0.060519 | -0.069141 | -0.069141 | -0.063044 | -0.063044 | -0.056348 | -0.056348 | -0.060216 | -0.060216 | -0.057774 | -0.057774 | -0.064563 | -0.064563 | -0.058170 | -0.058170 | -0.060939 | -0.060939 | -0.079891 | -0.079891 | -0.051725 | -0.051725 | -0.064990 | -0.064990 | -0.050517 | -0.050517 | -0.061558 | -0.061558 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.056093 | -0.060924 | -0.060924 | -0.059211 | -0.059211 | -0.058912 | -0.058912 |
| 0.059828 | 0.02447 | -0.066324 | -0.055801 | -0.065261 | -0.065261 | -0.065261 | -0.065261 | -0.065261 | -0.065261 | -0.065261 | -0.065261 | -0.065261 | -0.057172 | -0.057172 | -0.067154 | -0.067154 | -0.064509 | -0.064509 | -0.067334 | -0.067334 | -0.060399 | -0.060399 | -0.058983 | -0.058983 | -0.066094 | -0.066094 | -0.059308 | -0.059308 | -0.058406 | -0.058406 | -0.051151 | -0.051151 | -0.061417 | -0.061417 | -0.056251 | -0.056251 | -0.054712 | -0.054712 | -0.050200 | -0.050200 | -0.060719 | -0.060719 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.049357 | -0.055896 | -0.055896 | -0.059585 | -0.059585 | -0.083483 | -0.083483 |
| 0.059831 | 0.026361 | -0.066633 | -0.054863 | -0.080407 | -0.080407 | -0.080407 | -0.080407 | -0.080407 | -0.080407 | -0.080407 | -0.080407 | -0.080407 | -0.059334 | -0.059334 | -0.067081 | -0.067081 | -0.059921 | -0.059921 | -0.061301 | -0.061301 | -0.061095 | -0.061095 | -0.057958 | -0.057958 | -0.061785 | -0.061785 | -0.056643 | -0.056643 | -0.074641 | -0.074641 | -0.051869 | -0.051869 | -0.061393 | -0.061393 | -0.057222 | -0.057222 | -0.054689 | -0.054689 | -0.055044 | -0.055044 | -0.060541 | -0.060541 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.064157 | -0.070308 | -0.070308 | -0.056874 | -0.056874 | -0.050543 | -0.050543 |
| 0.059833 | 0.028252 | -0.060262 | -0.058571 | -0.064274 | -0.064274 | -0.064274 | -0.064274 | -0.064274 | -0.064274 | -0.064274 | -0.064274 | -0.064274 | -0.060061 | -0.060061 | -0.060786 | -0.060786 | -0.058032 | -0.058032 | -0.060338 | -0.060338 | -0.056382 | -0.056382 | -0.059784 | -0.059784 | -0.060236 | -0.060236 | -0.053180 | -0.053180 | -0.070874 | -0.070874 | -0.054597 | -0.054597 | -0.061351 | -0.061351 | -0.056036 | -0.056036 | -0.055403 | -0.055403 | -0.058367 | -0.058367 | -0.060549 | -0.060549 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.063531 | -0.057652 | -0.057652 | -0.052745 | -0.052745 | -0.049721 | -0.049721 |
| 0.059835 | 0.030143 | -0.056708 | -0.063084 | -0.062215 | -0.062215 | -0.062215 | -0.062215 | -0.062215 | -0.062215 | -0.062215 | -0.062215 | -0.062215 | -0.058968 | -0.058968 | -0.060455 | -0.060455 | -0.057889 | -0.057889 | -0.061526 | -0.061526 | -0.052765 | -0.052765 | -0.058872 | -0.058872 | -0.058879 | -0.058879 | -0.053650 | -0.053650 | -0.069014 | -0.069014 | -0.056309 | -0.056309 | -0.057380 | -0.057380 | -0.058222 | -0.058222 | -0.057668 | -0.057668 | -0.059903 | -0.059903 | -0.060280 | -0.060280 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.064537 | -0.055683 | -0.055683 | -0.052575 | -0.052575 | -0.053272 | -0.053272 |
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| 0.05984 | 0.033925 | -0.060538 | -0.059051 | -0.059189 | -0.059189 | -0.059189 | -0.059189 | -0.059189 | -0.059189 | -0.059189 | -0.059189 | -0.059189 | -0.058338 | -0.058338 | -0.061676 | -0.061676 | -0.062810 | -0.062810 | -0.060579 | -0.060579 | -0.056134 | -0.056134 | -0.062739 | -0.062739 | -0.063456 | -0.063456 | -0.056851 | -0.056851 | -0.045684 | -0.045684 | -0.061832 | -0.061832 | -0.054892 | -0.054892 | -0.058732 | -0.058732 | -0.060319 | -0.060319 | -0.053912 | -0.053912 | -0.059756 | -0.059756 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.051713 | -0.059068 | -0.059068 | -0.056739 | -0.056739 | -0.064602 | -0.064602 |
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| 0.109484 | 0.083215 | -0.070276 | -0.015592 | -0.059639 | -0.059639 | -0.059639 | -0.059639 | -0.059639 | -0.059639 | -0.059639 | -0.059639 | -0.059639 | -0.029897 | -0.029897 | -0.059414 | -0.059414 | -0.060977 | -0.060977 | -0.075906 | -0.075906 | -0.070325 | -0.070325 | -0.065470 | -0.065470 | -0.057345 | -0.057345 | -0.052198 | -0.052198 | -0.064143 | -0.064143 | -0.058259 | -0.058259 | -0.062152 | -0.062152 | -0.066494 | -0.066494 | -0.058098 | -0.058098 | -0.062609 | -0.062609 | -0.064730 | -0.064730 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.055869 | -0.097534 | -0.097534 | -0.061607 | -0.061607 | -0.066607 | -0.066607 |
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