## 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 |
| 0.066518 | 0.005985 | -0.028383 | -0.020384 | -0.020239 | -0.029359 | -0.029359 | -0.016282 | -0.016282 | -0.022862 | -0.022862 | -0.020266 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.021816 | -0.025717 | -0.025717 | -0.019350 | -0.019350 | -0.022239 | -0.022239 | -0.023663 | -0.023663 | -0.022104 | -0.022104 | -0.024149 | -0.024149 | -0.023449 | -0.023449 | -0.023796 | -0.023796 | -0.020857 | -0.020857 | -0.020388 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.017334 | -0.015712 | -0.013179 | -0.017857 | -0.007657 |
| 0.066516 | 0.007567 | -0.025307 | -0.023391 | -0.024387 | -0.028269 | -0.028269 | -0.021516 | -0.021516 | -0.023006 | -0.023006 | -0.020141 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.022077 | -0.023260 | -0.023260 | -0.022349 | -0.022349 | -0.024390 | -0.024390 | -0.020292 | -0.020292 | -0.018912 | -0.018912 | -0.020819 | -0.020819 | -0.022565 | -0.022565 | -0.024671 | -0.024671 | -0.021456 | -0.021456 | -0.020925 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.017569 | -0.015961 | -0.012465 | -0.016370 | -0.006678 |
| 0.066514 | 0.009149 | -0.023662 | -0.024957 | -0.024691 | -0.027293 | -0.027293 | -0.022193 | -0.022193 | -0.022105 | -0.022105 | -0.020874 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.021373 | -0.020167 | -0.020167 | -0.021485 | -0.021485 | -0.023409 | -0.023409 | -0.031821 | -0.031821 | -0.018303 | -0.018303 | -0.018040 | -0.018040 | -0.024639 | -0.024639 | -0.023636 | -0.023636 | -0.022622 | -0.022622 | -0.021314 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.018553 | -0.016158 | -0.013486 | -0.014496 | -0.010171 |
| 0.066512 | 0.010731 | -0.024949 | -0.025477 | -0.023519 | -0.026900 | -0.026900 | -0.021758 | -0.021758 | -0.021286 | -0.021286 | -0.020714 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.021058 | -0.018758 | -0.018758 | -0.020864 | -0.020864 | -0.021272 | -0.021272 | -0.033017 | -0.033017 | -0.018207 | -0.018207 | -0.019738 | -0.019738 | -0.025876 | -0.025876 | -0.022472 | -0.022472 | -0.023023 | -0.023023 | -0.022234 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.018250 | -0.015177 | -0.016020 | -0.017406 | -0.011957 |
| 0.06651 | 0.012313 | -0.024856 | -0.027453 | -0.023154 | -0.025623 | -0.025623 | -0.022146 | -0.022146 | -0.020377 | -0.020377 | -0.020670 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.022548 | -0.021697 | -0.021697 | -0.019562 | -0.019562 | -0.019376 | -0.019376 | -0.023529 | -0.023529 | -0.019076 | -0.019076 | -0.021712 | -0.021712 | -0.025739 | -0.025739 | -0.022098 | -0.022098 | -0.022637 | -0.022637 | -0.023468 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.016038 | -0.011527 | -0.015253 | -0.019188 | -0.012189 |
| 0.066508 | 0.013896 | -0.023785 | -0.027914 | -0.023927 | -0.024098 | -0.024098 | -0.022126 | -0.022126 | -0.021750 | -0.021750 | -0.023047 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024144 | -0.024693 | -0.024693 | -0.018790 | -0.018790 | -0.019503 | -0.019503 | -0.024371 | -0.024371 | -0.022028 | -0.022028 | -0.023334 | -0.023334 | -0.024842 | -0.024842 | -0.022607 | -0.022607 | -0.022662 | -0.022662 | -0.023757 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.014308 | -0.012884 | -0.011565 | -0.016464 | -0.011363 |
| 0.066505 | 0.015478 | -0.024108 | -0.026327 | -0.024487 | -0.022237 | -0.022237 | -0.022172 | -0.022172 | -0.022396 | -0.022396 | -0.024456 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.021494 | -0.023802 | -0.023802 | -0.019193 | -0.019193 | -0.019841 | -0.019841 | -0.023739 | -0.023739 | -0.024473 | -0.024473 | -0.023075 | -0.023075 | -0.023330 | -0.023330 | -0.022303 | -0.022303 | -0.023167 | -0.023167 | -0.023660 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.014188 | -0.015639 | -0.009741 | -0.017001 | -0.012506 |
| 0.066503 | 0.01706 | -0.024560 | -0.026281 | -0.022916 | -0.020285 | -0.020285 | -0.020195 | -0.020195 | -0.021020 | -0.021020 | -0.025105 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.017831 | -0.023390 | -0.023390 | -0.019123 | -0.019123 | -0.018941 | -0.018941 | -0.021377 | -0.021377 | -0.023984 | -0.023984 | -0.020455 | -0.020455 | -0.022947 | -0.022947 | -0.021229 | -0.021229 | -0.024545 | -0.024545 | -0.024045 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.016277 | -0.014746 | -0.011224 | -0.018278 | -0.015824 |
| 0.066501 | 0.018642 | -0.024781 | -0.024208 | -0.022677 | -0.020104 | -0.020104 | -0.019519 | -0.019519 | -0.022475 | -0.022475 | -0.025739 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.018344 | -0.023120 | -0.023120 | -0.019879 | -0.019879 | -0.019129 | -0.019129 | -0.021152 | -0.021152 | -0.022503 | -0.022503 | -0.019737 | -0.019737 | -0.023895 | -0.023895 | -0.021262 | -0.021262 | -0.024689 | -0.024689 | -0.024002 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.017452 | -0.015342 | -0.015786 | -0.018035 | -0.018652 |
| 0.066499 | 0.020224 | -0.026919 | -0.020942 | -0.024920 | -0.021036 | -0.021036 | -0.020368 | -0.020368 | -0.023709 | -0.023709 | -0.025093 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.021049 | -0.023256 | -0.023256 | -0.020959 | -0.020959 | -0.019782 | -0.019782 | -0.024034 | -0.024034 | -0.021301 | -0.021301 | -0.021335 | -0.021335 | -0.024814 | -0.024814 | -0.022183 | -0.022183 | -0.024110 | -0.024110 | -0.022950 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.018236 | -0.015145 | -0.019137 | -0.018635 | -0.019321 |
| 0.066497 | 0.021807 | -0.027969 | -0.019371 | -0.024175 | -0.022435 | -0.022435 | -0.021757 | -0.021757 | -0.022046 | -0.022046 | -0.024054 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.024065 | -0.022490 | -0.022490 | -0.022285 | -0.022285 | -0.019697 | -0.019697 | -0.023890 | -0.023890 | -0.020625 | -0.020625 | -0.022804 | -0.022804 | -0.025604 | -0.025604 | -0.022659 | -0.022659 | -0.023362 | -0.023362 | -0.022845 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.022882 | -0.015539 | -0.021306 | -0.018566 | -0.019918 |
| 0.066495 | 0.023389 | -0.024229 | -0.022022 | -0.023752 | -0.023330 | -0.023330 | -0.022857 | -0.022857 | -0.020968 | -0.020968 | -0.023077 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.023766 | -0.021365 | -0.021365 | -0.021994 | -0.021994 | -0.019736 | -0.019736 | -0.022609 | -0.022609 | -0.020853 | -0.020853 | -0.022854 | -0.022854 | -0.024796 | -0.024796 | -0.021669 | -0.021669 | -0.022850 | -0.022850 | -0.023129 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.026149 | -0.017470 | -0.022293 | -0.018703 | -0.020120 |
| 0.066493 | 0.024971 | -0.023245 | -0.024617 | -0.024997 | -0.021672 | -0.021672 | -0.022904 | -0.022904 | -0.021099 | -0.021099 | -0.020810 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.023213 | -0.020948 | -0.020948 | -0.021718 | -0.021718 | -0.019469 | -0.019469 | -0.022461 | -0.022461 | -0.021105 | -0.021105 | -0.021803 | -0.021803 | -0.022872 | -0.022872 | -0.022537 | -0.022537 | -0.022337 | -0.022337 | -0.022894 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.023664 | -0.019285 | -0.022034 | -0.020647 | -0.019673 |
| 0.066491 | 0.026553 | -0.023685 | -0.022745 | -0.025653 | -0.020355 | -0.020355 | -0.021475 | -0.021475 | -0.019881 | -0.019881 | -0.019412 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.023286 | -0.019382 | -0.019382 | -0.020414 | -0.020414 | -0.017644 | -0.017644 | -0.022604 | -0.022604 | -0.019201 | -0.019201 | -0.020602 | -0.020602 | -0.022643 | -0.022643 | -0.023760 | -0.023760 | -0.021430 | -0.021430 | -0.021706 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.022426 | -0.021473 | -0.022583 | -0.022689 | -0.020324 |
| 0.066488 | 0.028135 | -0.022125 | -0.022376 | -0.023092 | -0.020660 | -0.020660 | -0.021245 | -0.021245 | -0.023769 | -0.023769 | -0.018282 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.022539 | -0.018482 | -0.018482 | -0.018822 | -0.018822 | -0.018176 | -0.018176 | -0.022362 | -0.022362 | -0.018158 | -0.018158 | -0.020229 | -0.020229 | -0.022824 | -0.022824 | -0.024578 | -0.024578 | -0.021457 | -0.021457 | -0.020973 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.020783 | -0.022834 | -0.022361 | -0.023008 | -0.022412 |
| 0.066486 | 0.029718 | -0.020496 | -0.023968 | -0.022410 | -0.022706 | -0.022706 | -0.025282 | -0.025282 | -0.025438 | -0.025438 | -0.018660 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.021138 | -0.017594 | -0.017594 | -0.018197 | -0.018197 | -0.018270 | -0.018270 | -0.023441 | -0.023441 | -0.017940 | -0.017940 | -0.021278 | -0.021278 | -0.020212 | -0.020212 | -0.020157 | -0.020157 | -0.022007 | -0.022007 | -0.019037 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020572 | -0.020301 | -0.021179 | -0.021462 | -0.025177 |
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| 0.066482 | 0.032882 | -0.019501 | -0.023472 | -0.021211 | -0.021866 | -0.021866 | -0.024760 | -0.024760 | -0.024559 | -0.024559 | -0.027102 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.018691 | -0.016623 | -0.016623 | -0.020403 | -0.020403 | -0.016348 | -0.016348 | -0.022067 | -0.022067 | -0.017294 | -0.017294 | -0.021927 | -0.021927 | -0.018166 | -0.018166 | -0.023232 | -0.023232 | -0.022150 | -0.022150 | -0.021483 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.024326 | -0.025143 | -0.021643 | -0.021125 | -0.022380 |
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