## vorticities
| Unnamed: 0 | Unnamed: 1 | Time (ms) and Vorticity (1/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 |
| 0.185318 | 0.041628 | 1.344772 | 0.822065 | 10.702419 | 10.702419 | 10.702419 | 10.702419 | 10.702419 | -1.677802 | 0.831458 | 12.314975 | 0.193698 | 1.947142 | 11.158362 | 9.594829 | -1.305883 | 6.956299 | 4.747642 | 3.351669 | -5.044862 | -5.287759 | -1.185381 | 7.131478 | -3.890601 | 19.781901 | 15.349106 | 15.741910 | 16.235245 | 3.823741 | 11.691127 | -1.429762 | -4.118195 | -2.574175 | 15.422129 | 11.327677 | -0.329296 | 7.801735 | 5.949640 | 2.941958 | -4.931956 | 1.947184 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | -0.838808 | 2.092410 | 2.092410 | 2.916449 | 2.916449 | 14.467746 | 14.467746 |
| 0.178523 | 0.041613 | 13.862990 | 3.059783 | 7.461882 | 7.461882 | 7.461882 | 7.461882 | 7.461882 | -7.013472 | 7.131727 | 21.188959 | -1.103245 | 0.803297 | 25.114392 | 0.999073 | -0.886999 | 15.057957 | 21.749550 | 8.951098 | 5.772313 | -1.903513 | 3.595030 | 16.773024 | 6.595273 | -19.639520 | -1.563903 | -3.813939 | 14.628591 | 14.540669 | 0.918584 | -10.198901 | 5.765932 | -1.198719 | 10.545040 | 11.218112 | -2.918828 | 5.285345 | 13.402067 | -3.630814 | 4.926586 | 5.770843 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | 4.399698 | -0.182154 | -0.182154 | 9.972638 | 9.972638 | -7.714726 | -7.714726 |
| 0.171728 | 0.041597 | 0.154281 | 9.329312 | 14.648627 | 14.648627 | 14.648627 | 14.648627 | 14.648627 | -7.355216 | 17.576344 | -8.640506 | -5.729475 | -5.611981 | 12.154340 | 2.680913 | 2.675406 | -13.193582 | 2.862994 | 0.004537 | -5.852133 | 18.943616 | -1.820734 | -11.832504 | 9.608159 | 14.484047 | 2.485964 | -5.810507 | 11.355910 | -2.178231 | -10.787596 | 3.760062 | -8.801901 | 7.516037 | -0.028743 | -1.536144 | 2.971214 | 19.736876 | 8.756719 | -0.851418 | 0.771636 | 0.362103 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | -5.690796 | 18.893260 | 18.893260 | -3.639814 | -3.639814 | 11.089443 | 11.089443 |
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| 0.130958 | 0.041503 | 0.364437 | -6.093816 | 5.981277 | 5.981277 | 5.981277 | 5.981277 | 5.981277 | 14.426816 | -9.527265 | 10.846746 | 3.029648 | -3.708632 | 17.306234 | 6.801265 | -2.555060 | -22.699573 | -21.605425 | 7.419703 | -5.937293 | 13.632747 | 24.516474 | -27.858679 | 12.499011 | 2.398883 | -3.717572 | 1.079597 | 14.518259 | -20.006269 | 0.147075 | -2.560639 | -2.415954 | 1.554848 | -7.567376 | 2.908591 | 13.673645 | -8.790569 | 12.583308 | 1.436292 | 1.079965 | 10.093752 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | -0.794325 | 9.666649 | 9.666649 | -6.498114 | -6.498114 | 7.175051 | 7.175051 |
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| 0.103778 | 0.041441 | 5.355568 | 13.145405 | -3.724518 | -3.724518 | -3.724518 | -3.724518 | -3.724518 | 8.047699 | -7.107428 | -18.435294 | 23.512515 | 4.752381 | -14.290199 | 3.084758 | 20.002147 | 8.528244 | -2.765139 | 7.568624 | 6.703104 | 16.112292 | -0.117185 | 19.842697 | 14.891272 | 13.064406 | -9.021916 | 1.260782 | 15.409050 | -10.791068 | -8.890043 | -3.476989 | -9.980882 | -2.075598 | 6.146997 | 3.929619 | 3.637241 | -3.725977 | 1.034318 | -6.965128 | 6.763425 | 9.623571 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -1.675934 | -3.835432 | -3.835432 | -1.616323 | -1.616323 | 10.812279 | 10.812279 |
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| 0.116372 | 0.087002 | 1.160931 | 0.062399 | 2.047718 | 2.047718 | 2.047718 | 2.047718 | 2.047718 | -2.156102 | 0.566019 | -1.632682 | -0.396233 | -2.323948 | -3.372561 | -1.079120 | -1.274891 | 0.294316 | 0.318816 | 5.876653 | -1.752200 | 0.170908 | -1.597289 | 0.420327 | 1.466087 | 0.370808 | 2.470117 | -4.490926 | -4.507818 | 0.649404 | 5.423883 | -2.141769 | 0.856195 | 3.645050 | 3.324114 | 11.005185 | 7.088504 | 2.962901 | 0.931142 | 2.499561 | -0.586258 | -4.263310 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | 10.995677 | -17.091730 | -17.091730 | -1.041815 | -1.041815 | -12.241187 | -12.241187 |
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| 0.118028 | 0.10049 | 1.126357 | 2.517609 | -1.970507 | -1.970507 | -1.970507 | -1.970507 | -1.970507 | 0.212789 | 0.753838 | 10.356017 | -7.754544 | 1.962404 | 0.194248 | 1.812275 | 7.153968 | 2.931533 | 3.581048 | 4.585553 | 2.232149 | 15.268332 | 14.870891 | 9.152388 | 2.264750 | 13.065477 | -1.805912 | 3.232172 | -10.010209 | -0.802388 | -1.436947 | -3.749672 | 1.197855 | 2.399368 | -2.737561 | -0.030993 | -0.147992 | 0.863214 | 9.285577 | -0.150219 | -2.050911 | 1.407704 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | -10.323372 | 2.717249 | 2.717249 | 0.009550 | 0.009550 | 7.900388 | 7.900388 |
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| 0.124528 | 0.094445 | 1.089729 | 1.231826 | 0.188641 | 0.188641 | 0.188641 | 0.188641 | 0.188641 | -1.773752 | -0.697279 | -0.417930 | -0.450374 | -0.747573 | -1.376127 | -1.439151 | -2.943104 | -5.742512 | -3.520361 | -1.366079 | -10.433325 | -8.124918 | -10.282401 | -5.749463 | -6.047138 | -3.353744 | 2.108395 | 1.231213 | -2.366323 | -1.039071 | 0.810375 | -7.471221 | 1.748929 | -0.942226 | 1.668417 | 2.948936 | 3.952302 | 7.493194 | 3.225144 | 5.350776 | 7.139414 | 3.694595 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | -2.918078 | 4.634559 | 4.634559 | -3.716579 | -3.716579 | -0.982107 | -0.982107 |