## 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 | Unnamed: 61 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 1000.000000 |
| 0.160229 | 0.037348 | 12.219375 | 0.828504 | 5.650124 | 11.101241 | 11.101241 | 1.079224 | 1.079224 | 9.084706 | 9.084706 | 0.798234 | 0.798234 | 2.599718 | 2.599718 | 3.914554 | 3.914554 | 8.652581 | 8.652581 | 0.526948 | 0.526948 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 14.250053 | 0.115643 | 3.596968 | -4.116928 | 5.606754 | -0.368721 | 8.802878 | -2.888516 | 14.143231 | 8.499104 | -0.115658 | 0.326834 | 8.942311 | 7.237880 | 11.569154 | -1.081868 | -2.929021 | 8.090775 | -1.527566 | -3.492974 | -3.153061 | 0.466268 | 3.947820 | 0.832338 | 7.094536 | 7.537327 | 13.569581 | 11.509713 | -12.624408 | 2.263841 |
| 0.15413 | 0.037334 | 3.945032 | -6.323525 | -2.233466 | 13.956141 | 13.956141 | -3.126599 | -3.126599 | -1.486832 | -1.486832 | 0.856878 | 0.856878 | 1.914213 | 1.914213 | -0.253012 | -0.253012 | -0.660735 | -0.660735 | -5.938415 | -5.938415 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | 3.975183 | -4.328311 | 1.552800 | 1.139730 | -2.933392 | 1.288334 | 2.038526 | 2.828073 | 9.340860 | -2.109421 | 2.546505 | -2.971166 | -0.630087 | 7.126104 | 6.701021 | 1.489184 | -0.472592 | 10.046670 | 20.146725 | 13.048432 | 0.841216 | 12.371563 | 5.127351 | 2.020775 | 9.592206 | 2.289117 | 1.939469 | 3.197266 | 8.489433 | 10.057324 |
| 0.148032 | 0.03732 | 2.517665 | 6.922359 | 0.942772 | 14.421061 | 14.421061 | 12.626958 | 12.626958 | 4.558301 | 4.558301 | 10.273044 | 10.273044 | 2.115427 | 2.115427 | 1.412183 | 1.412183 | 9.549322 | 9.549322 | 4.380671 | 4.380671 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | -1.302959 | 4.183663 | 6.021221 | 8.854046 | -1.687796 | 3.701932 | -2.738076 | 3.532818 | -0.003128 | -4.451568 | -7.045270 | 2.158968 | 4.763786 | -1.746740 | -4.094055 | 0.889197 | 0.957320 | 7.877532 | 11.143769 | 7.251046 | -4.892478 | 4.027575 | 10.483873 | -1.029275 | 4.161850 | -1.842533 | -10.541616 | 7.708880 | 13.181577 | 6.544366 |
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| 0.129735 | 0.037278 | -6.661407 | 16.388737 | -5.912214 | -10.227354 | -10.227354 | 18.583125 | 18.583125 | 0.023547 | 0.023547 | 7.578679 | 7.578679 | -15.927911 | -15.927911 | 7.009233 | 7.009233 | 15.019049 | 15.019049 | 20.517916 | 20.517916 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -3.668382 | -10.077248 | -14.577479 | 0.070426 | -2.001575 | 7.747511 | -4.105282 | 8.562729 | -12.389911 | -16.743214 | 5.253409 | -17.868613 | 9.891898 | -0.306160 | 12.478949 | -9.487853 | 3.436558 | -7.444425 | 2.951483 | 1.213492 | 5.193389 | 8.896534 | 1.897564 | -4.179487 | -2.641773 | 6.048136 | -9.475893 | 4.392450 | 2.064506 | -0.166610 |
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| 0.080946 | 0.037167 | -4.167566 | -10.661543 | 0.858597 | 1.091371 | 1.091371 | 0.009199 | 0.009199 | -2.866860 | -2.866860 | 0.146650 | 0.146650 | 2.942323 | 2.942323 | -2.123126 | -2.123126 | 3.970486 | 3.970486 | 2.024163 | 2.024163 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | -2.492617 | 2.894514 | -1.787936 | 0.996999 | -3.045244 | -0.733565 | 1.845786 | -0.143315 | -3.607326 | 0.910665 | 0.835918 | -10.680911 | 0.347972 | 4.423355 | 10.627869 | -0.903110 | 0.501707 | -0.449587 | -1.053583 | 0.117438 | 0.970193 | 6.060412 | -2.073743 | -0.713118 | -3.613875 | 2.806938 | -2.457923 | -2.042305 | 3.183055 | 8.162684 |
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| 0.128453 | 0.093184 | -0.716614 | -0.655181 | 0.196154 | 0.053161 | 0.053161 | -0.424028 | -0.424028 | -0.275057 | -0.275057 | -1.090519 | -1.090519 | -1.148808 | -1.148808 | -1.496942 | -1.496942 | -2.530751 | -2.530751 | -0.961334 | -0.961334 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | -2.572197 | 1.143370 | 1.043686 | 1.288409 | 1.680330 | 0.477692 | 1.972847 | 1.516655 | 1.761175 | -0.000063 | -0.463002 | -1.511307 | -1.892988 | -0.403967 | -0.350102 | 0.123537 | 0.117062 | -0.440874 | -0.359220 | 0.246373 | 0.770220 | 0.450998 | 2.200781 | 2.173865 | 0.773692 | 1.816406 | -0.840376 | 3.207466 | 0.916615 | 0.749490 |
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