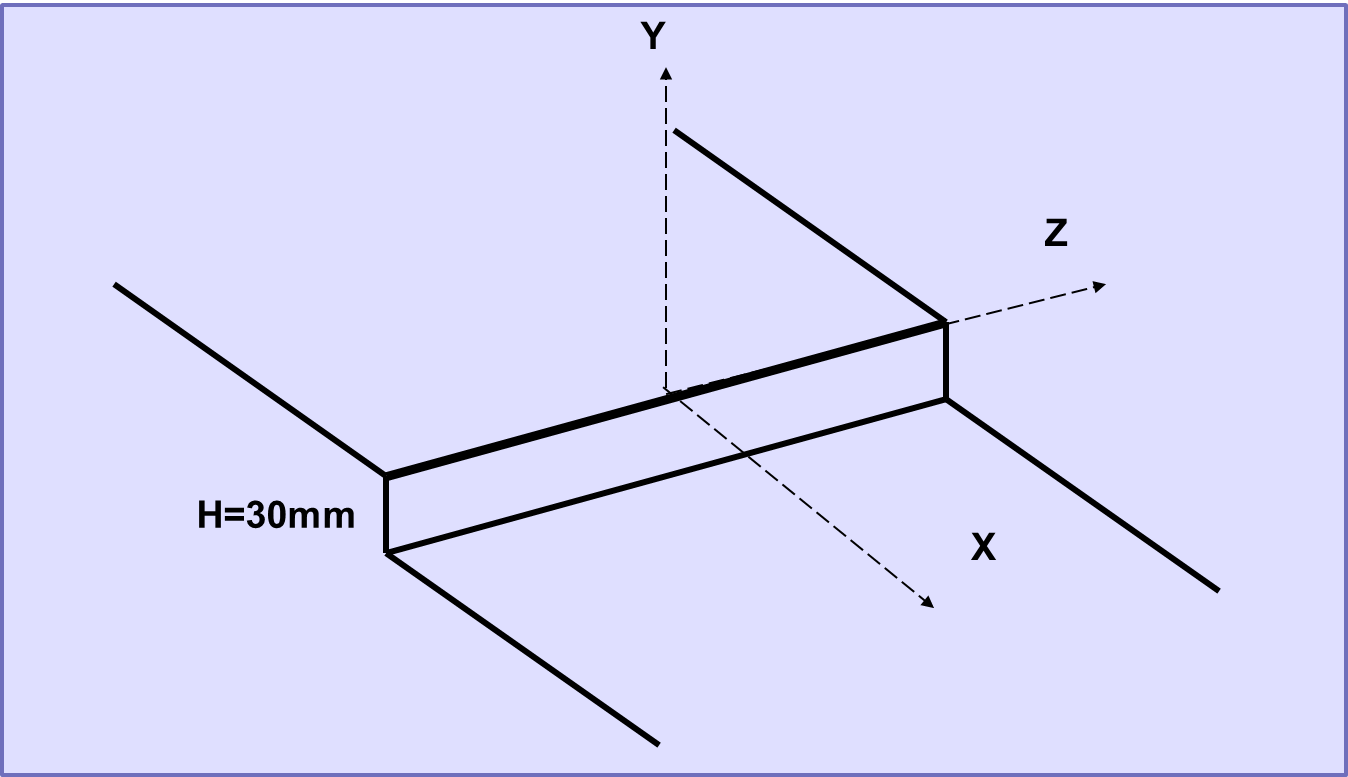
**DATA OF BFS PROVIDED BY NUAA WP2 TEAM**

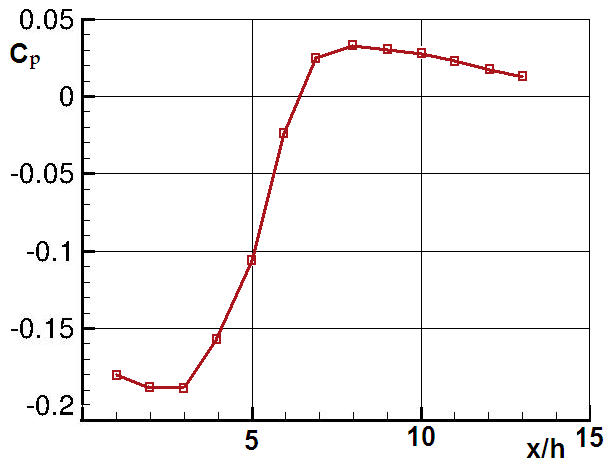
**Geometry of BFS model**

****

**EXPERIMENTAL CURVES**

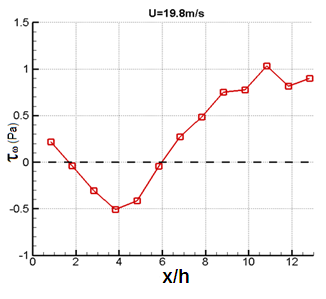
**BFS\_ BL\_ EXP\_MCP\_NUAA**

**Pressure coefficient**

****

**BFS\_ BL\_ EXP\_MSF\_NUAA**

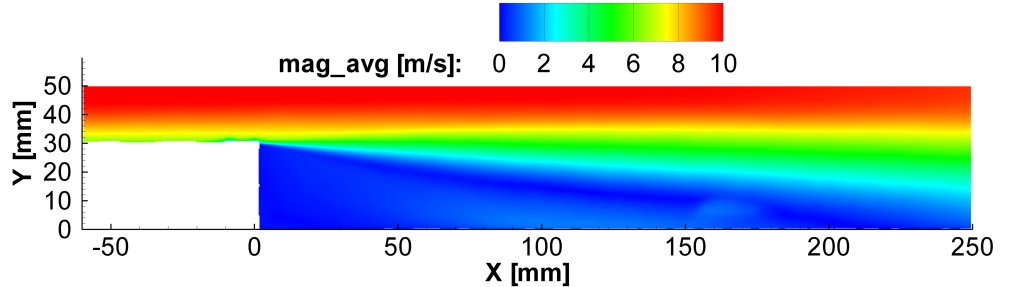
**Skin friction**

****

**BFS\_ BL\_ EXP\_MRA\_NUAA**

**X/h=6 (free stream velocity U=19.8)**

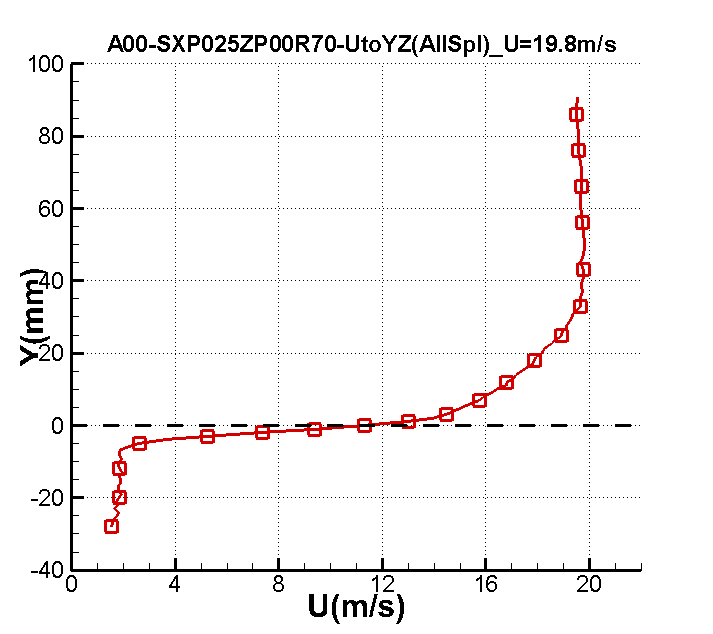
**BFS\_ BL\_ EXP\_TAS\_NUAA**

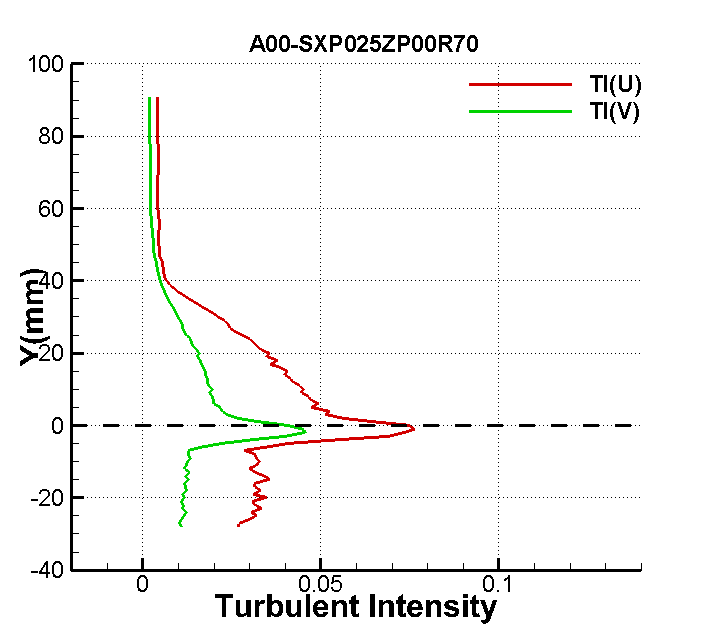
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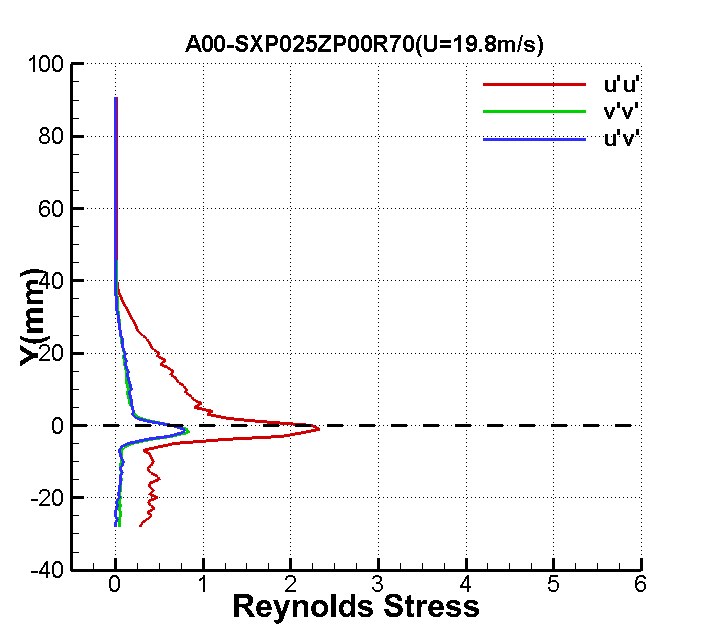
**BFS\_ BL\_ EXP\_TSS\_NUAA**

**Profile of mean velocity, turbulence intensity, and Reynolds stress**

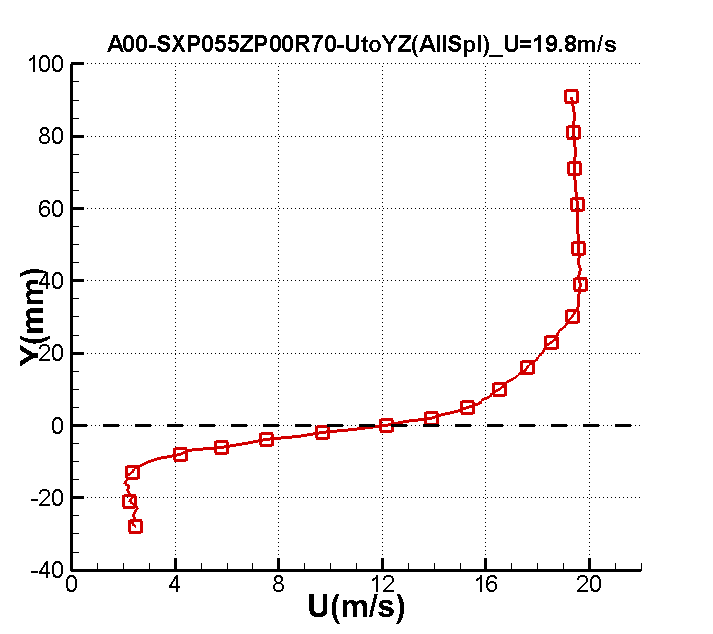
**X=1h**

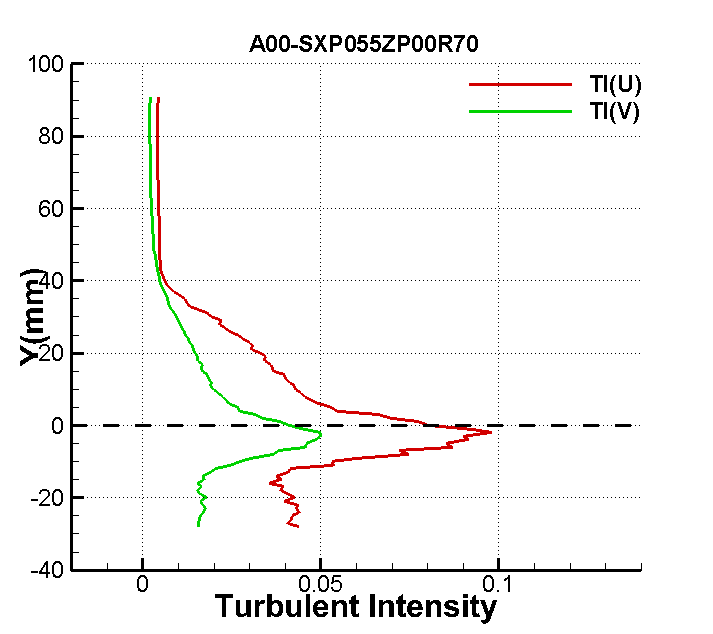


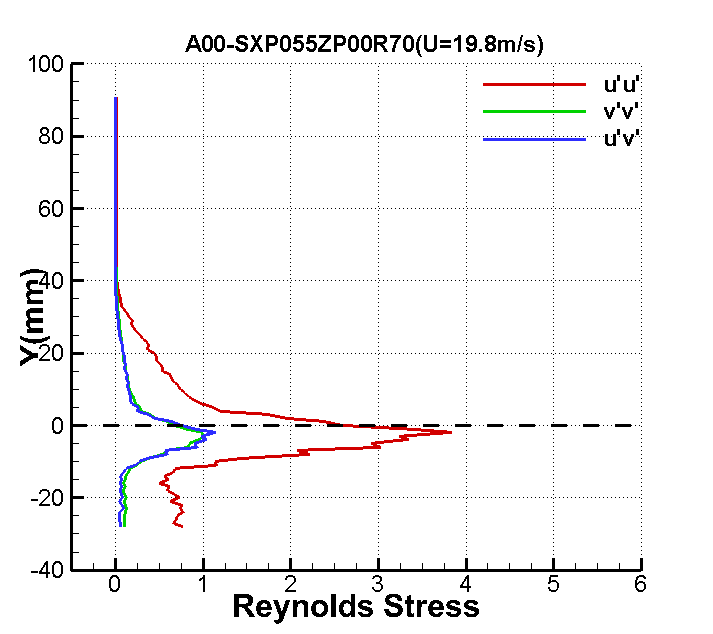




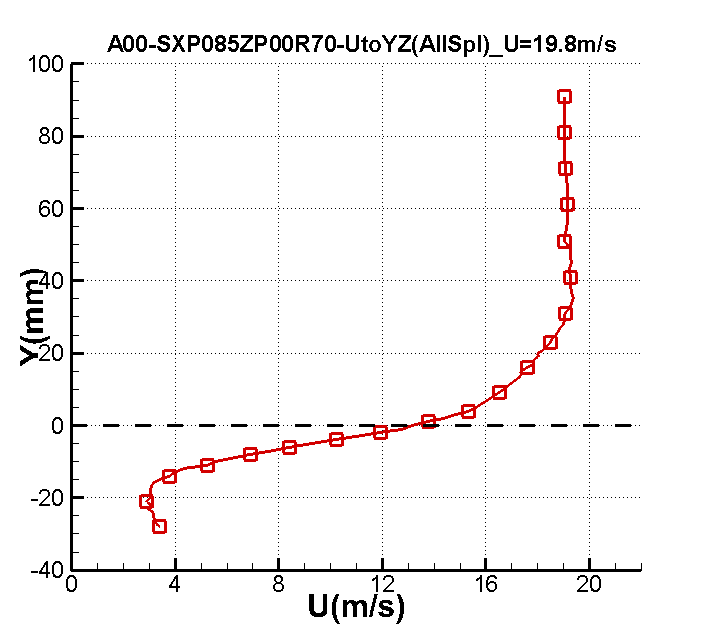
**X=2h**

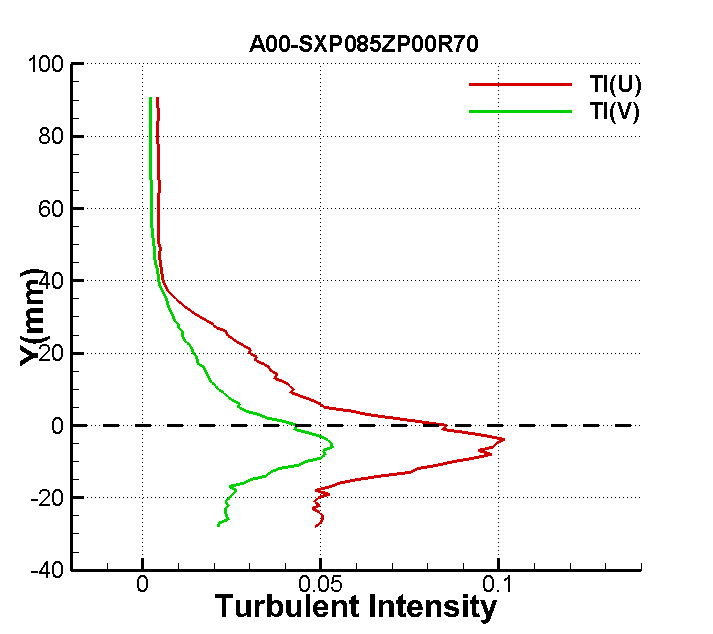


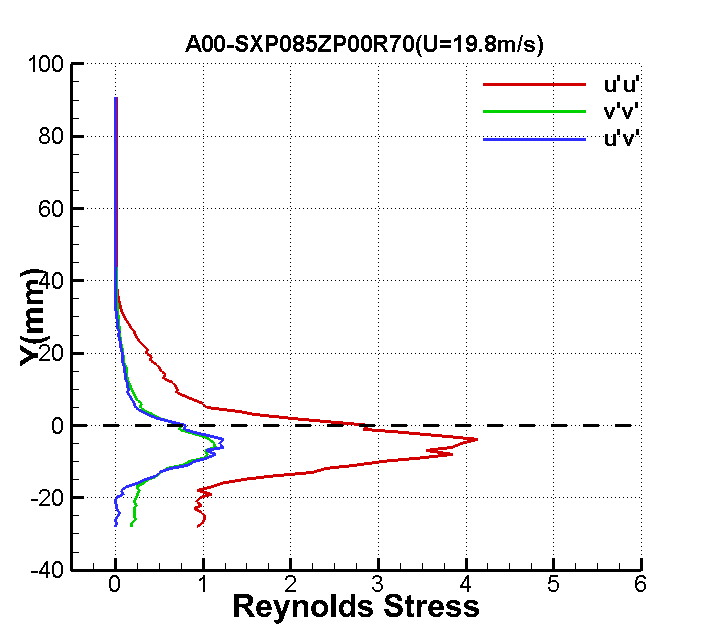




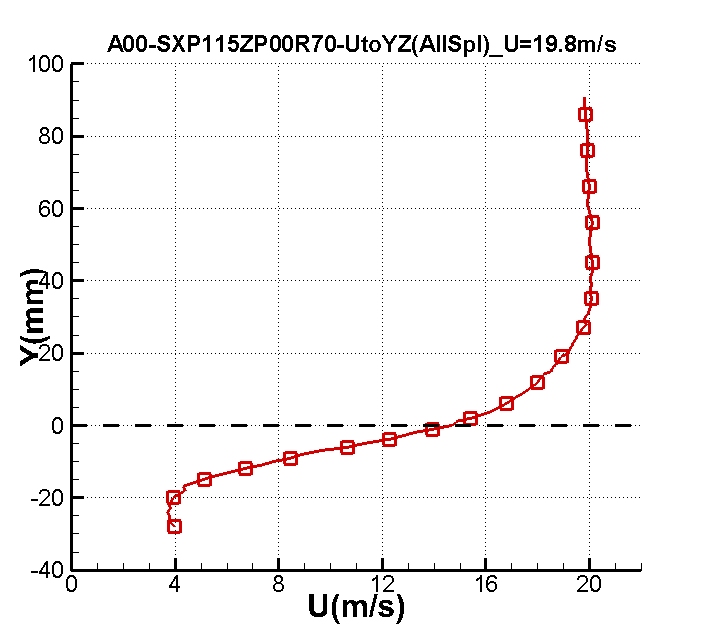
**X=3h**

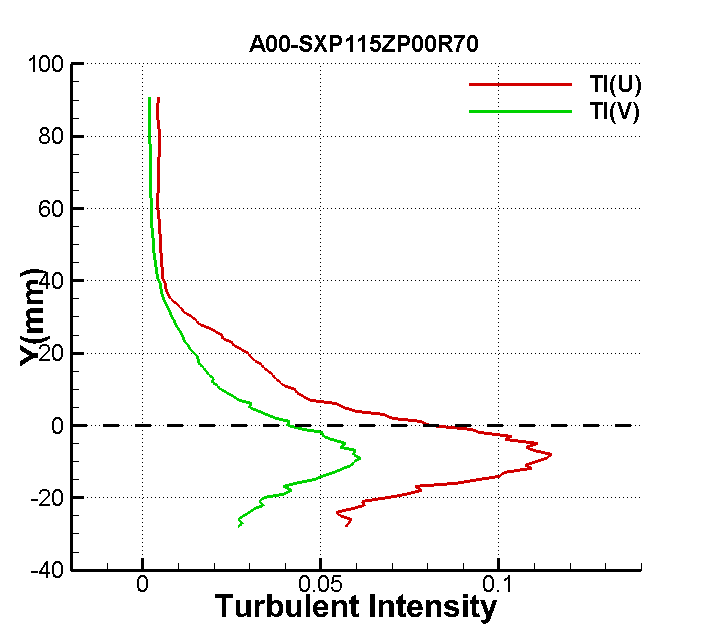


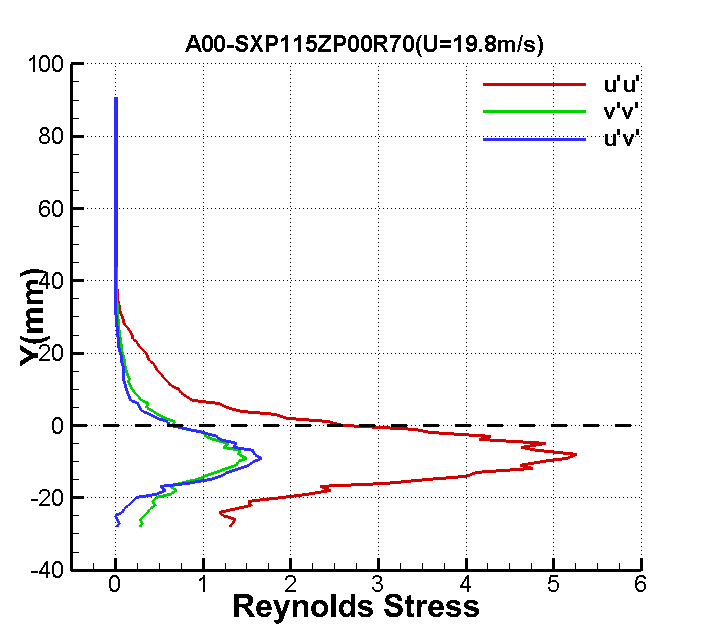




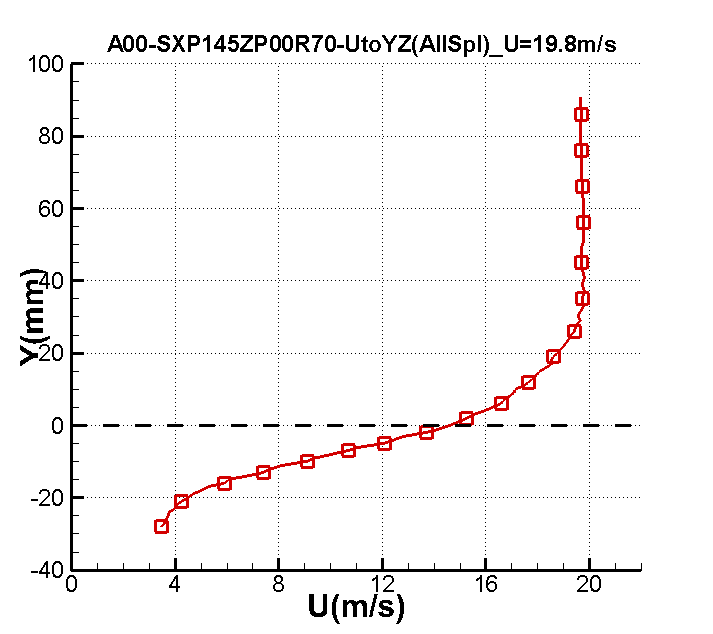
**X=4h**

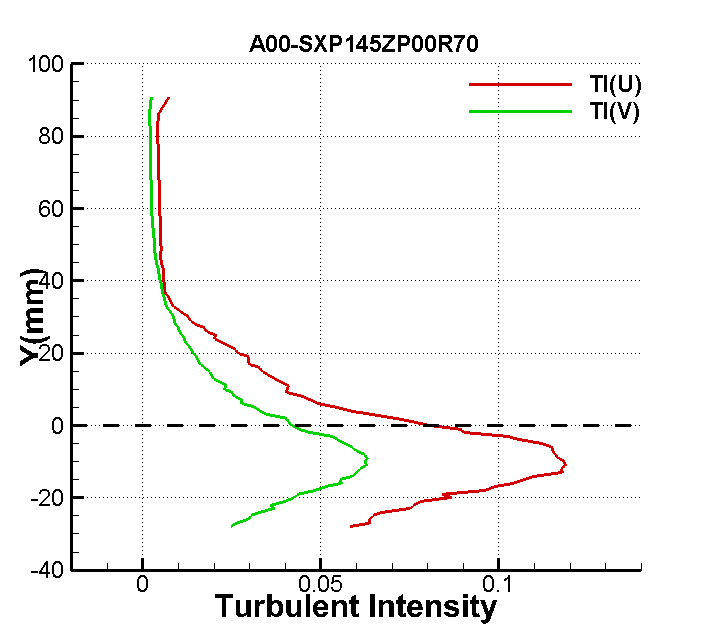


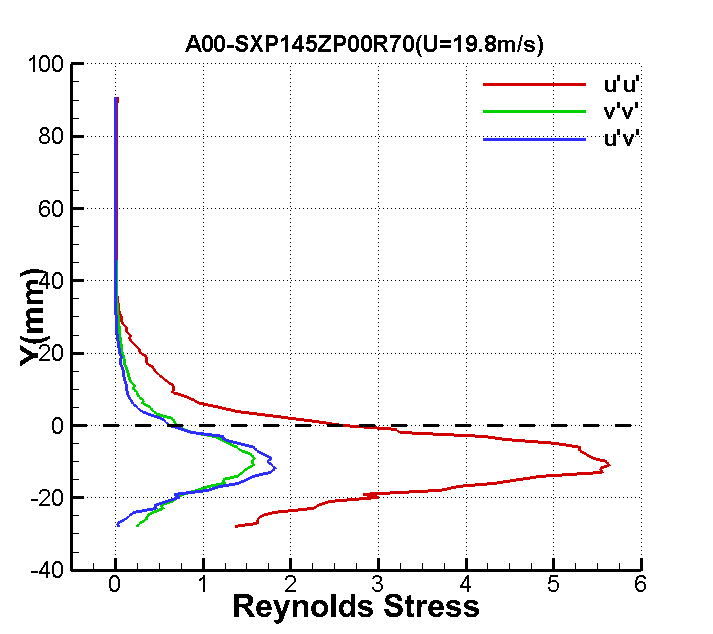




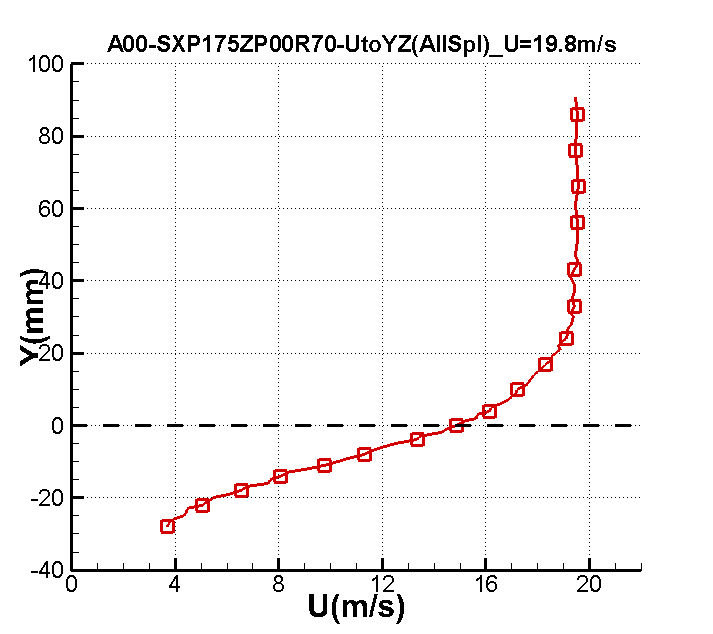
**X=5h**

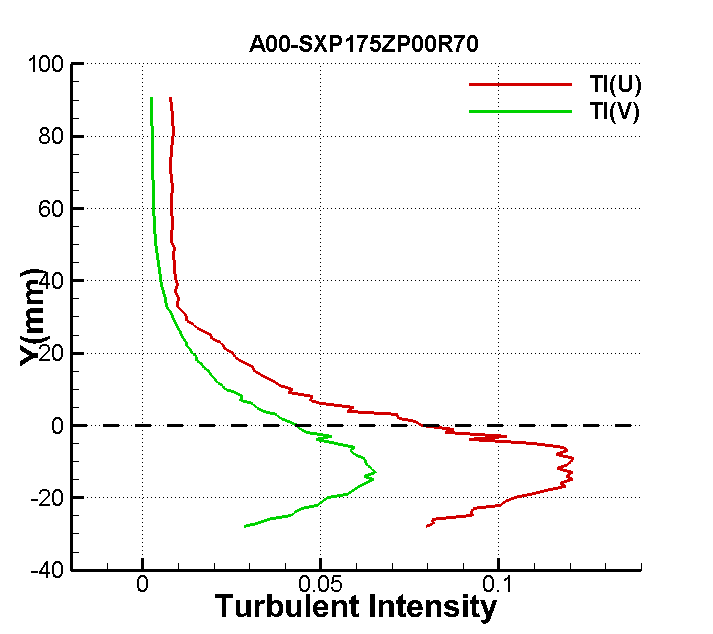


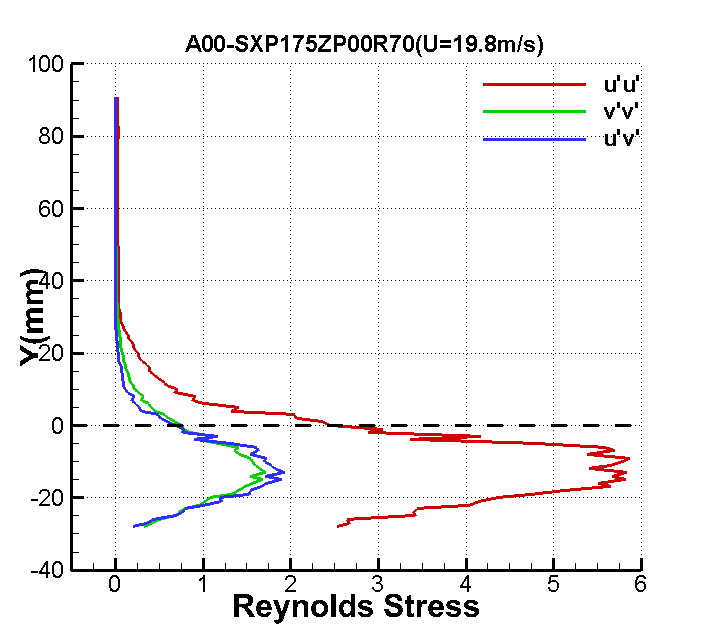




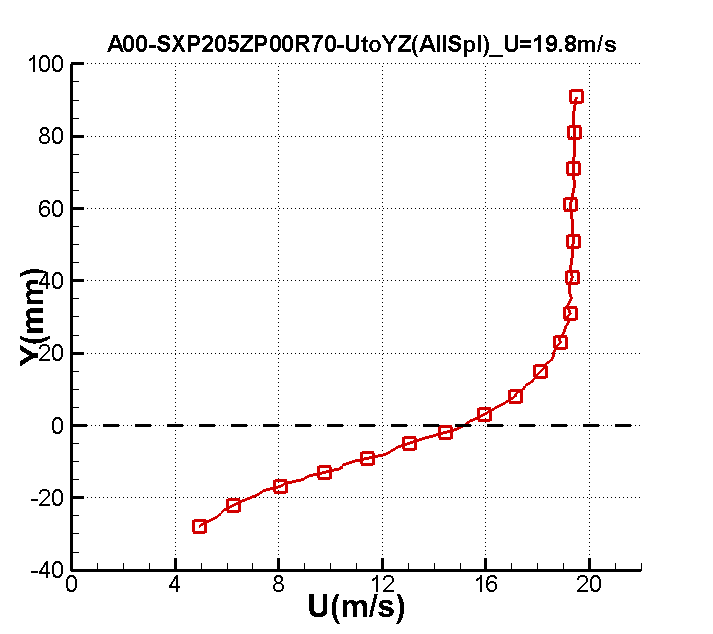
**X=6h**

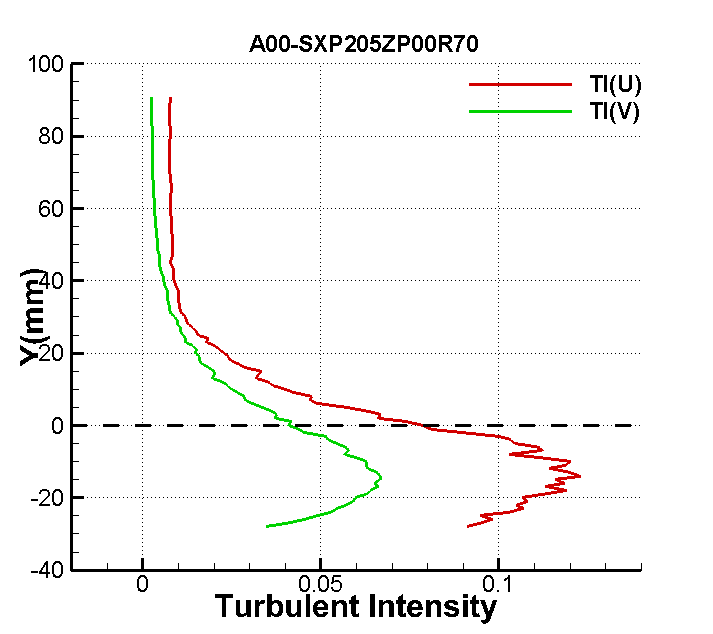


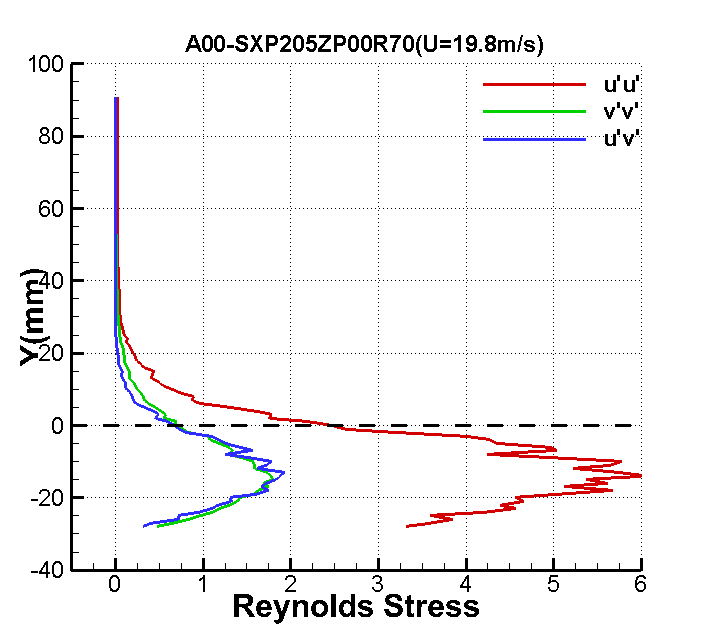




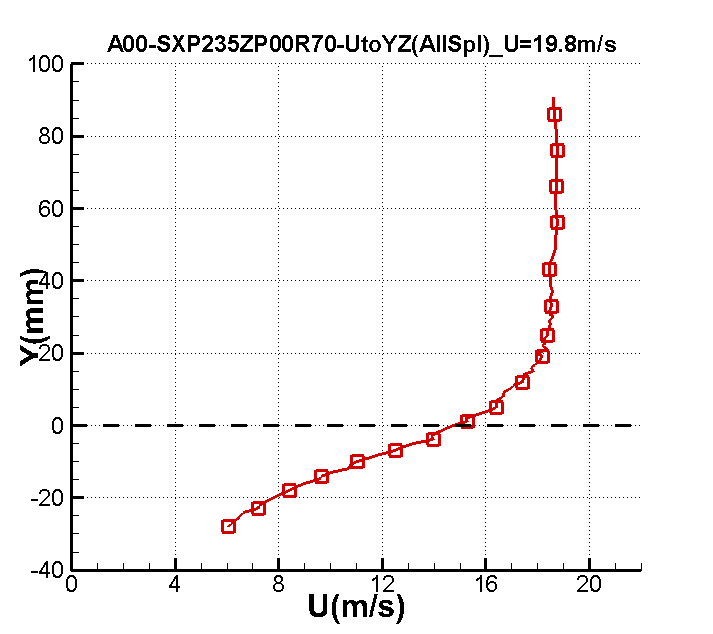
**X=7h**

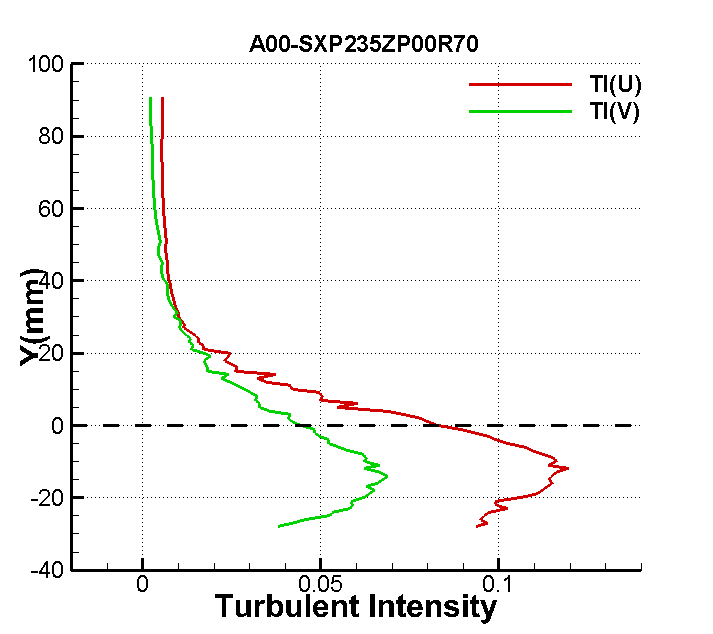


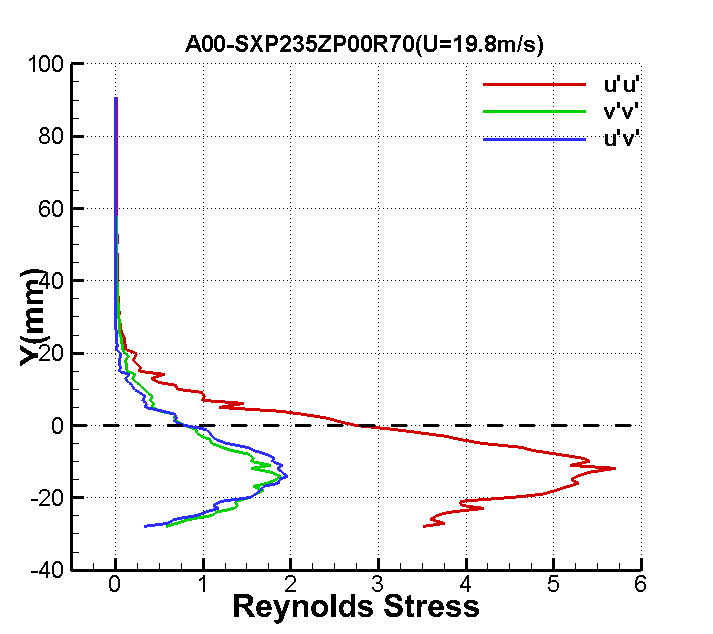




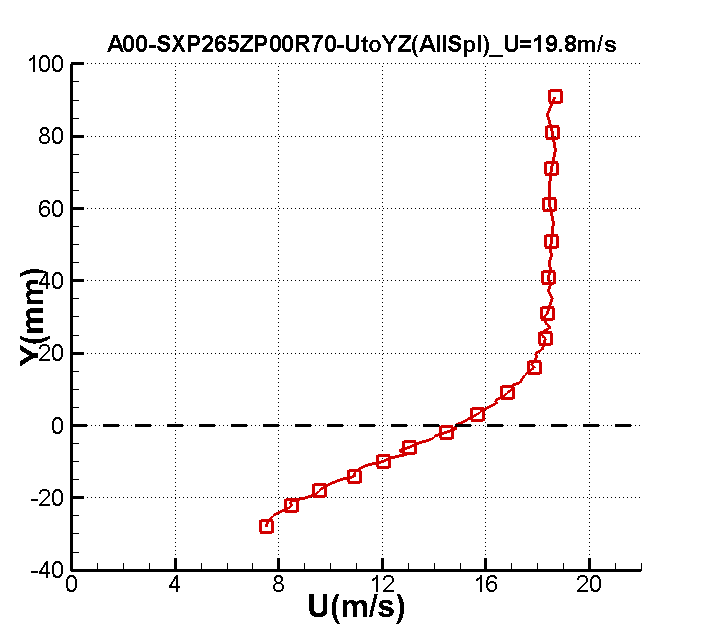
**X=8h**

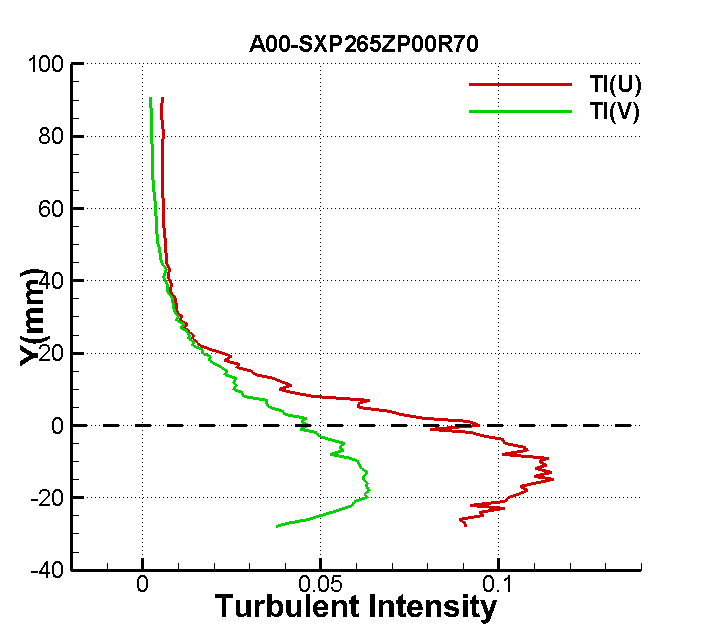


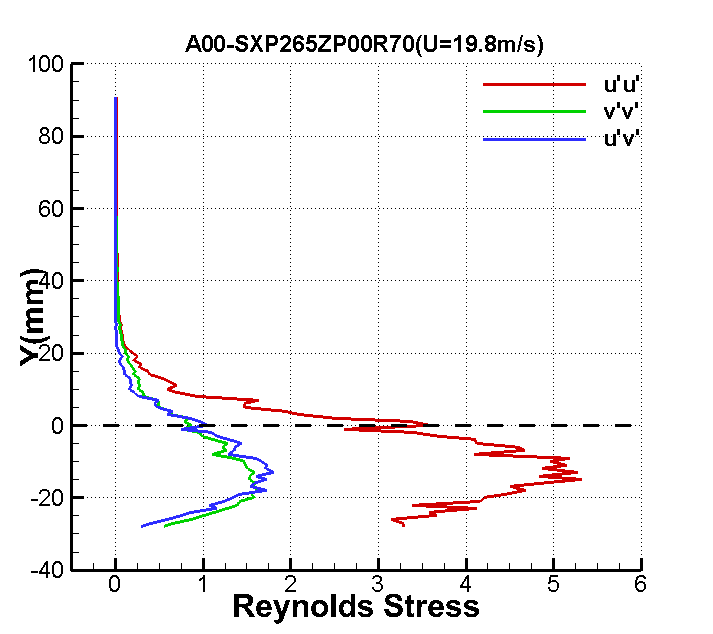




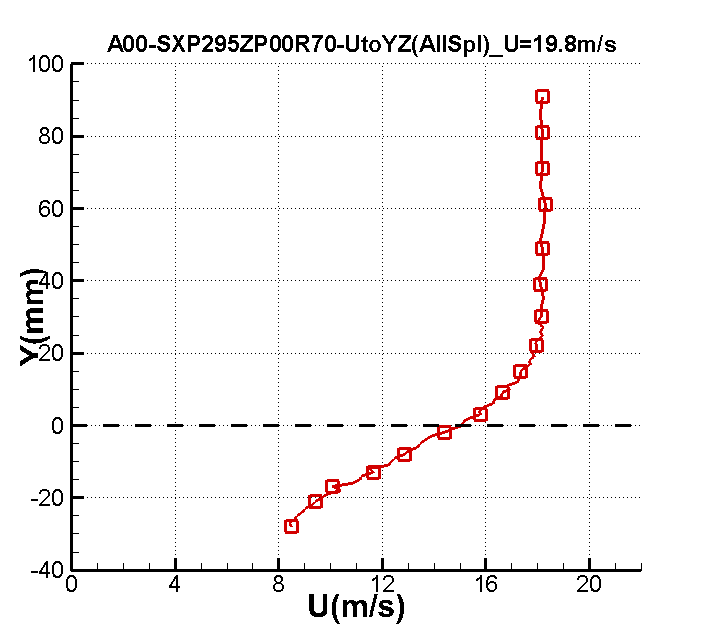
**X=9h**

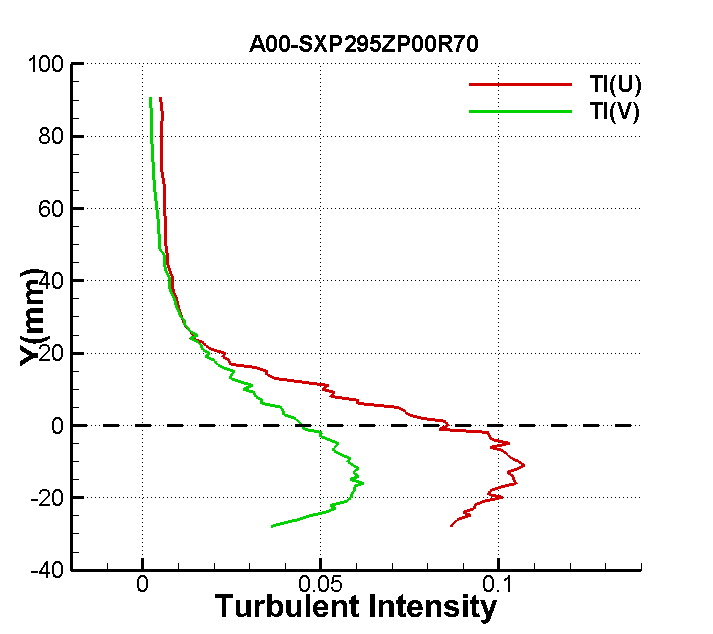


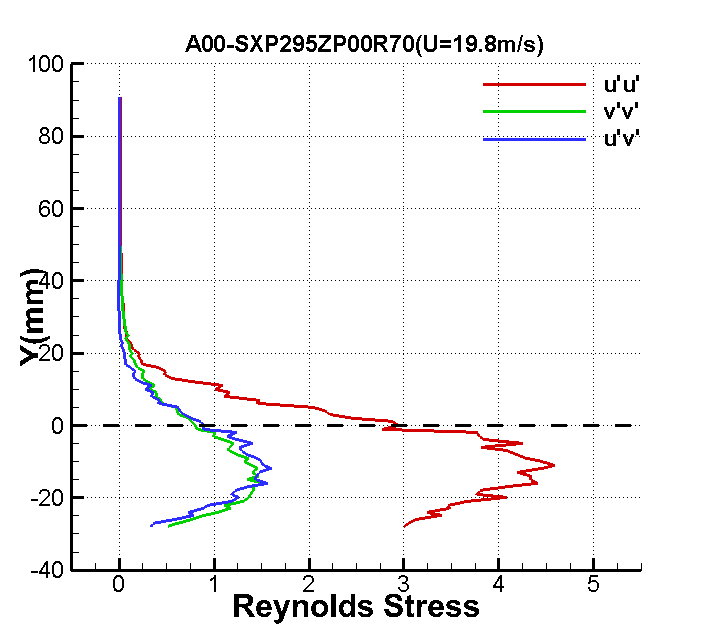




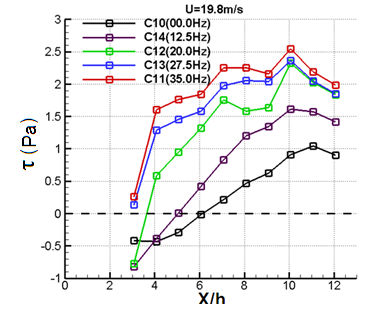
**X=10h**





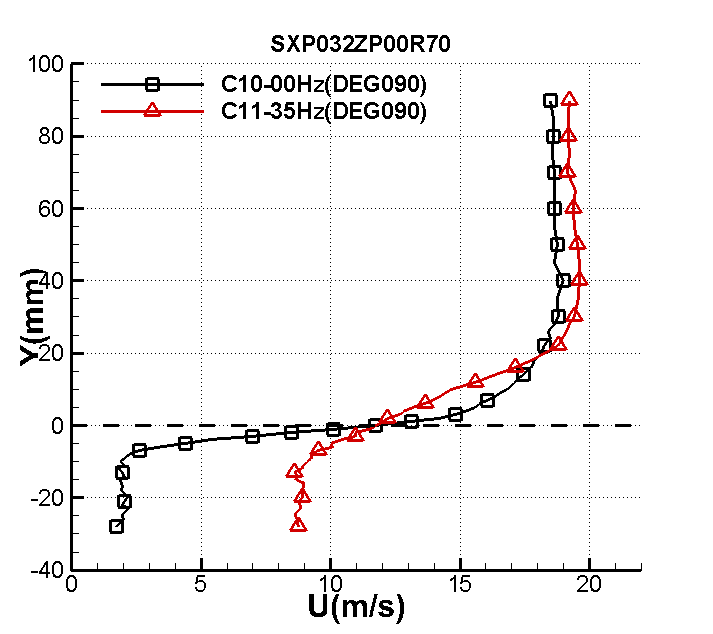
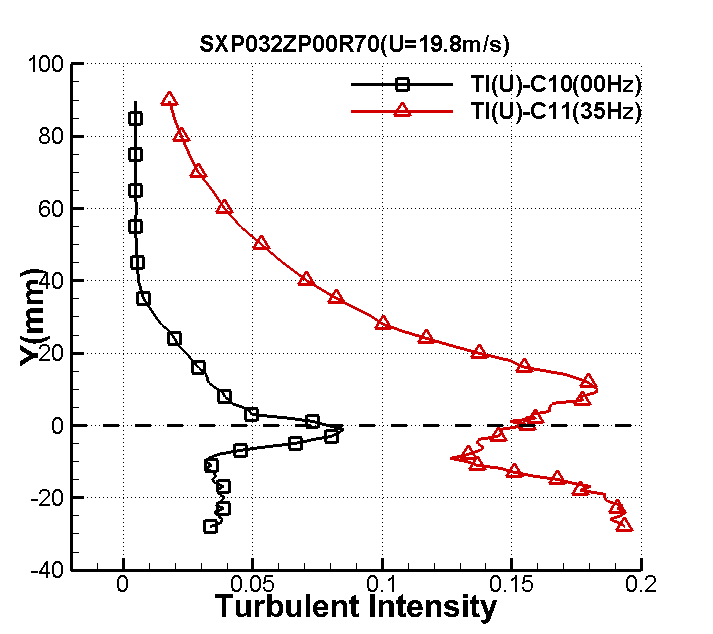


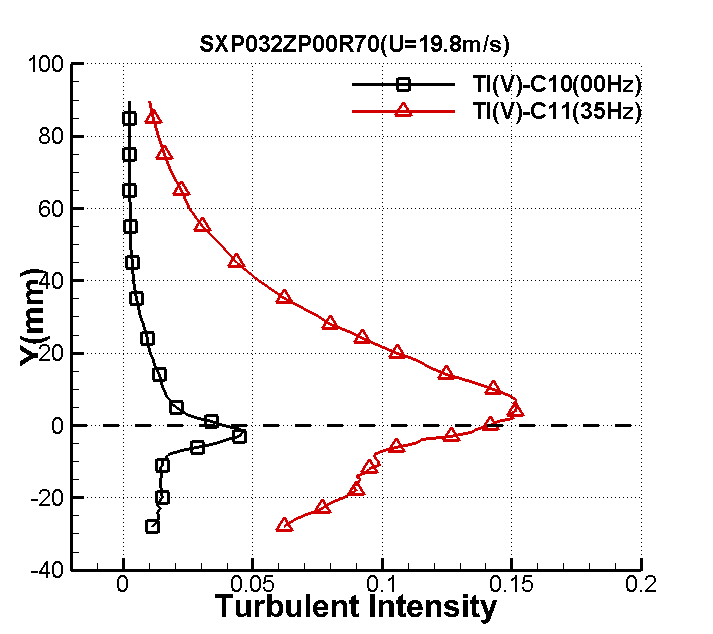
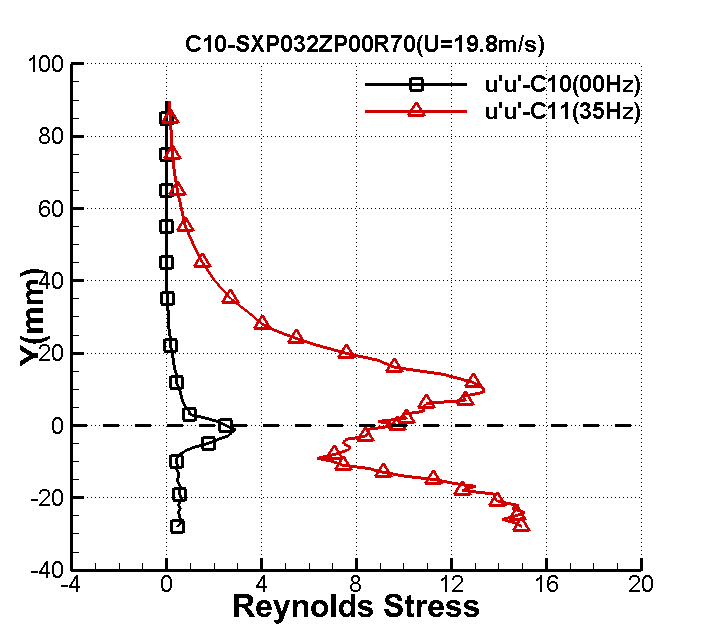
**BFS\_ SJ\_ EXP\_CF\_NUAA**

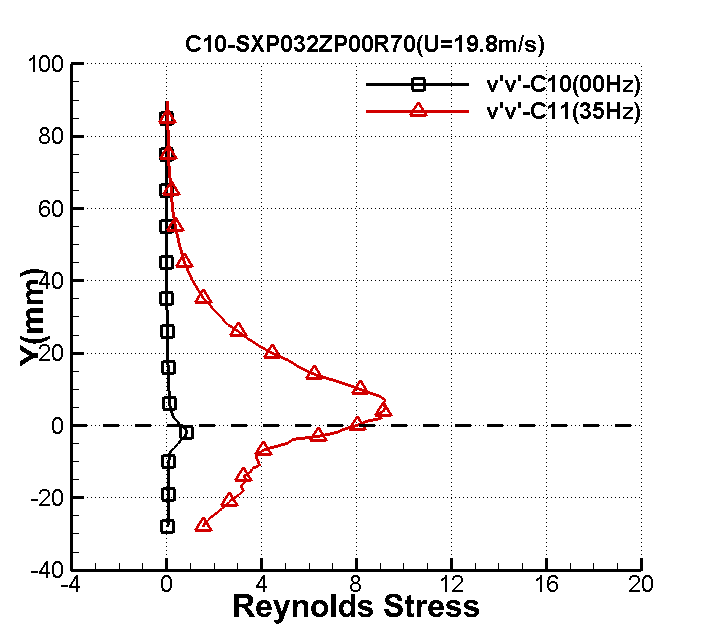
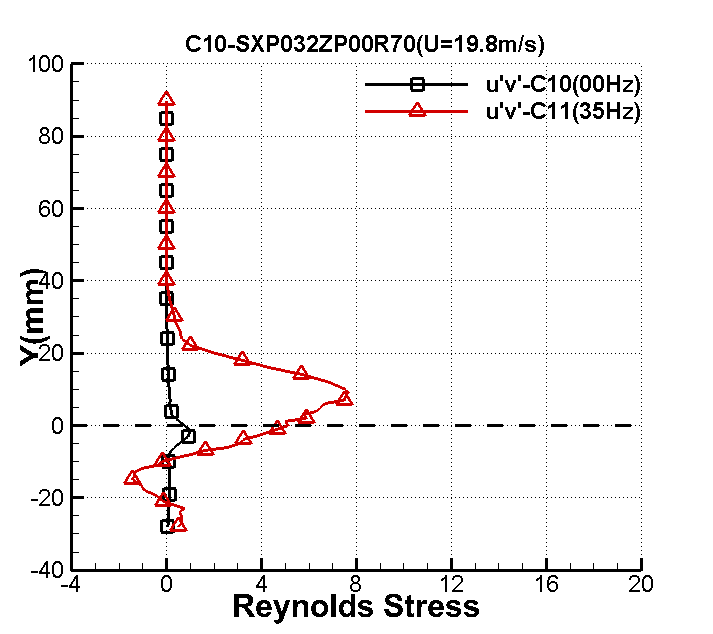
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**BFS\_ SJ\_ EXP\_TSS\_NUAA**

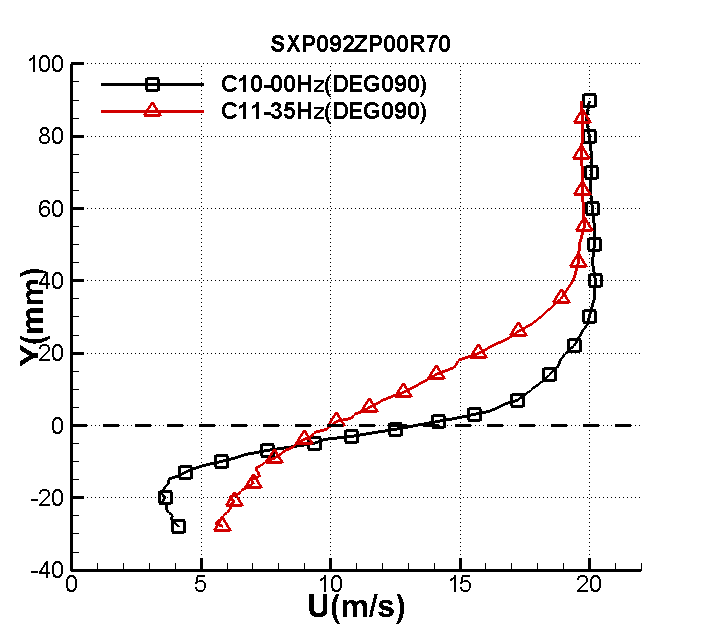
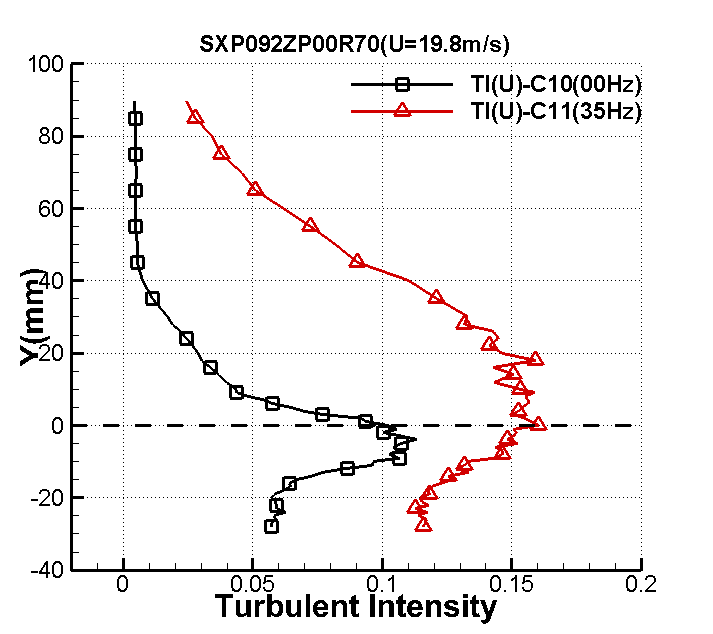
**X/h=1**

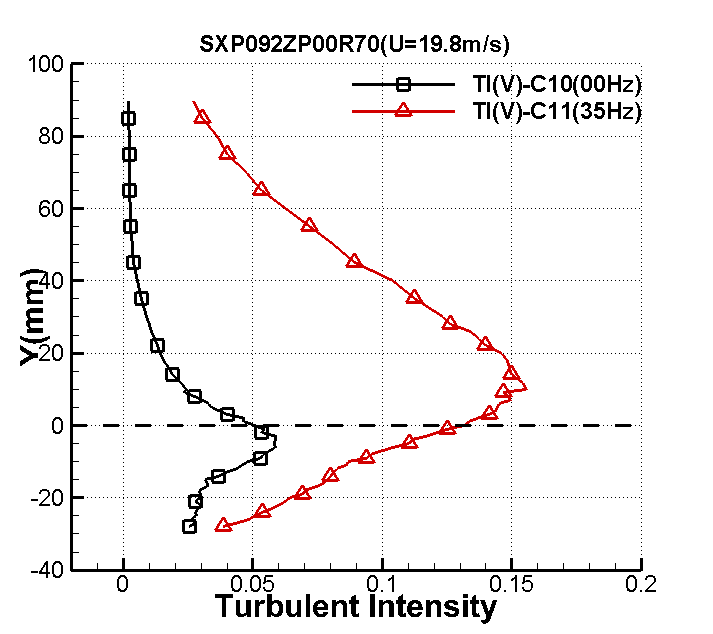
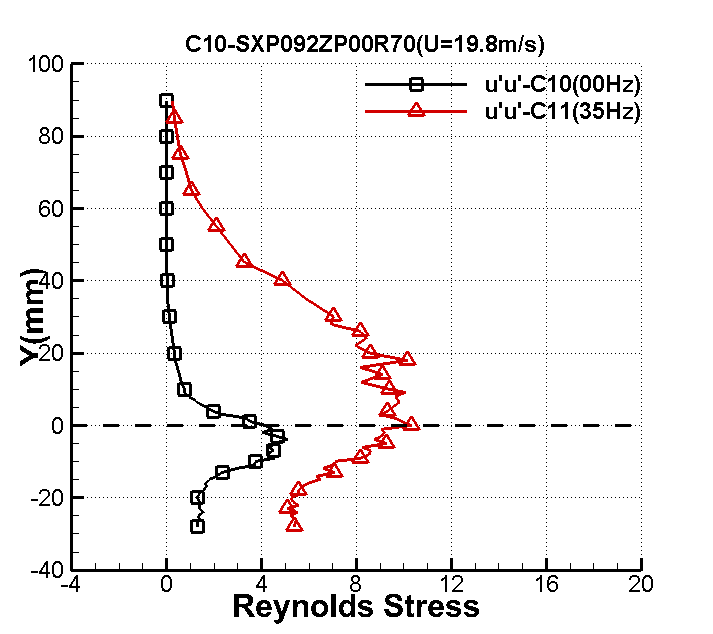
 

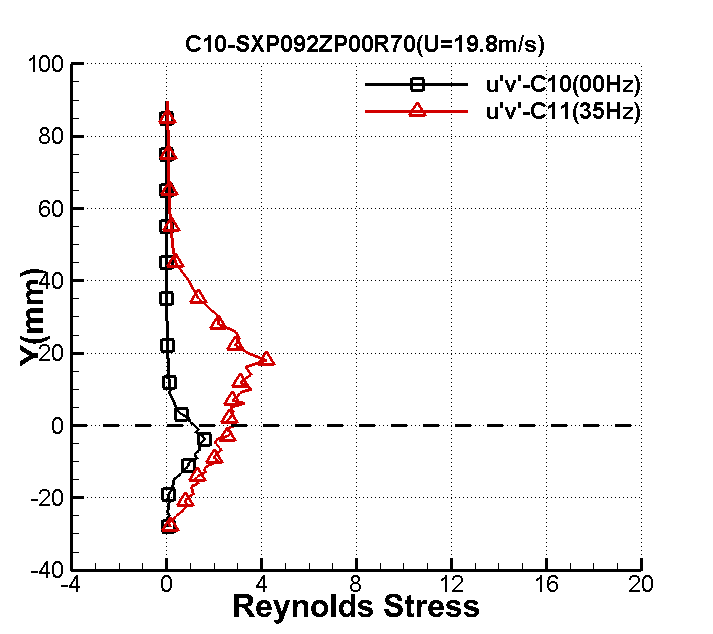
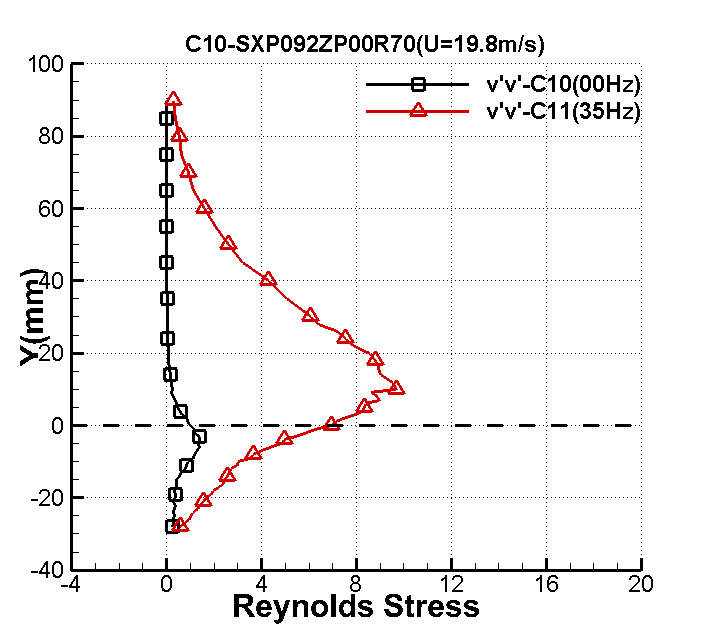
 

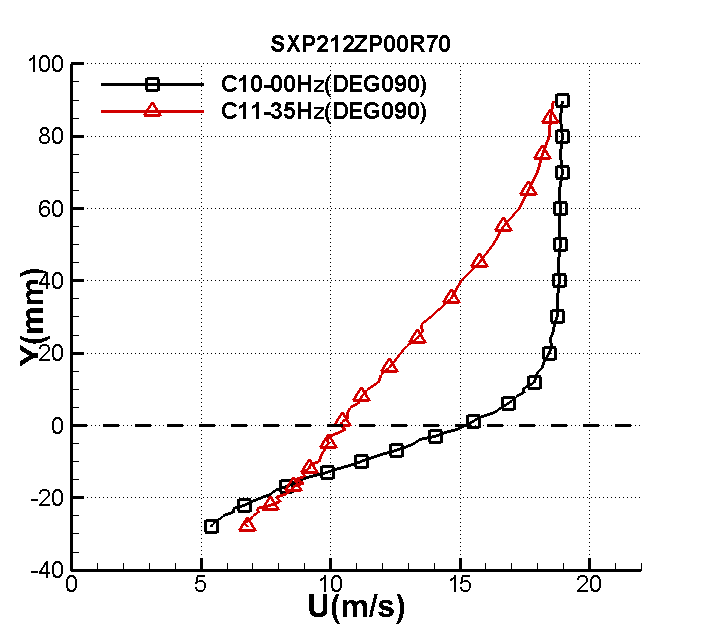
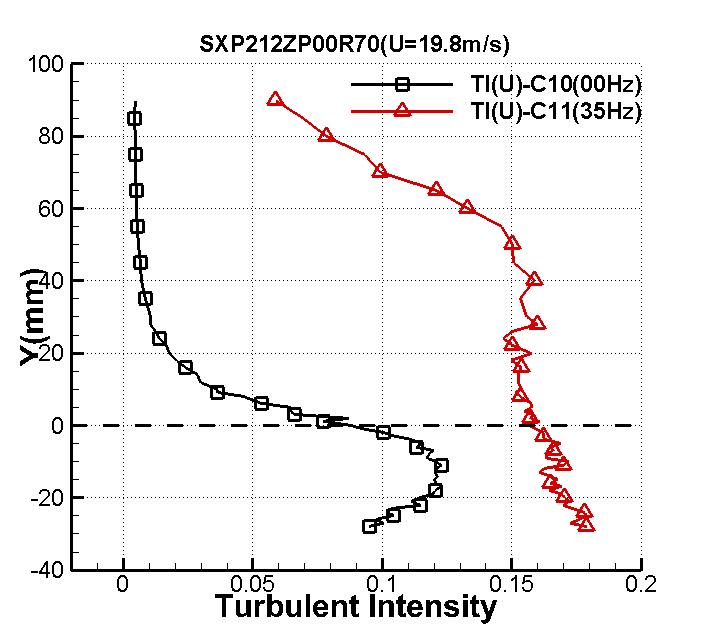
**X/h=3**

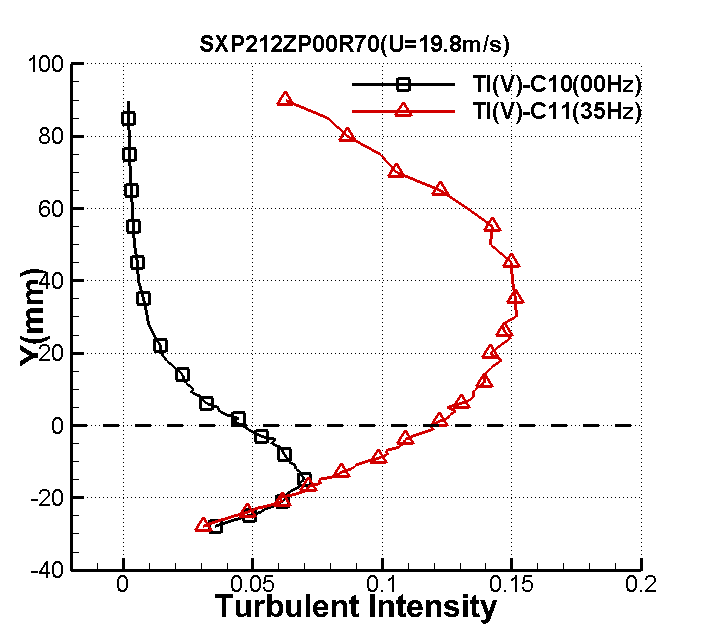
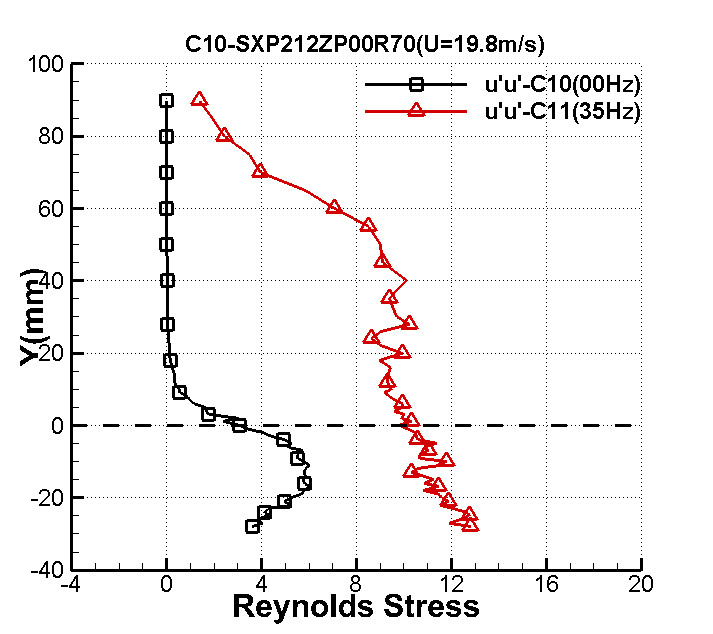
 

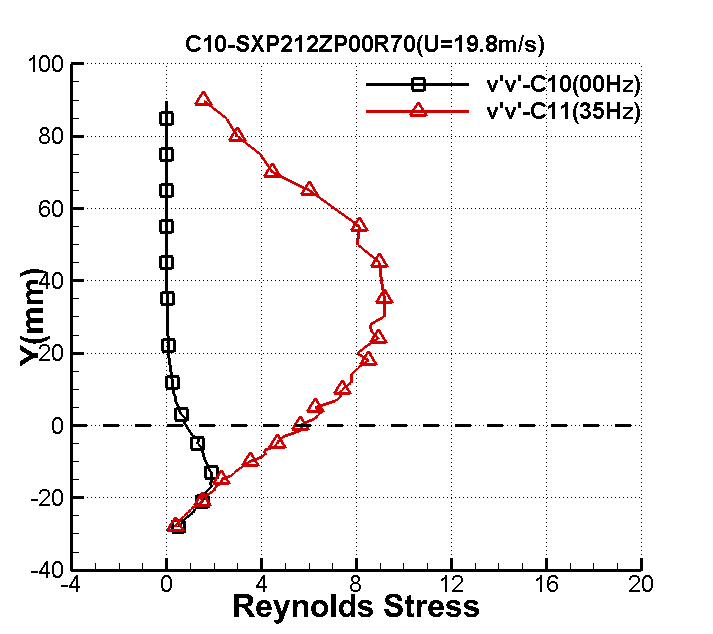
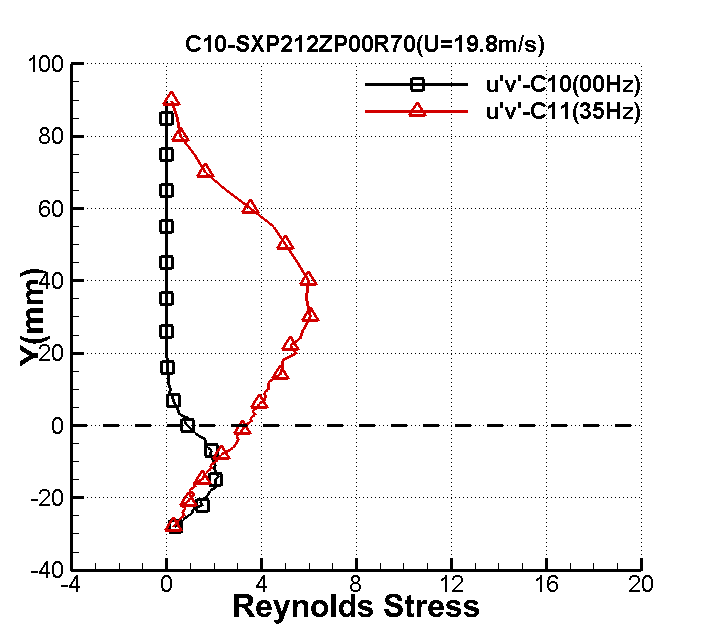
 



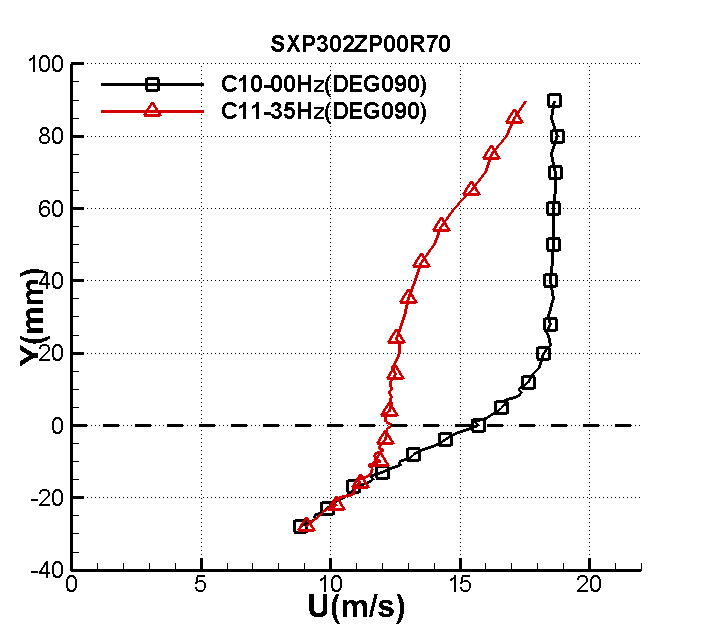
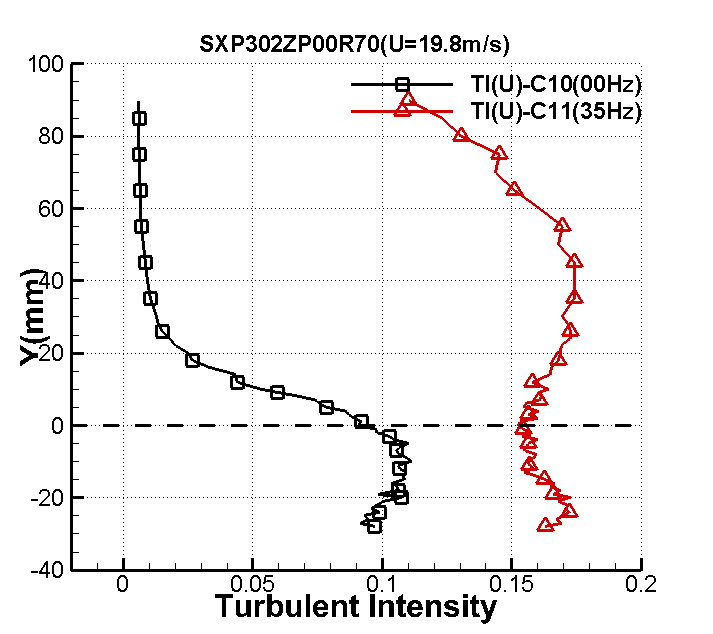
**X/h=7**

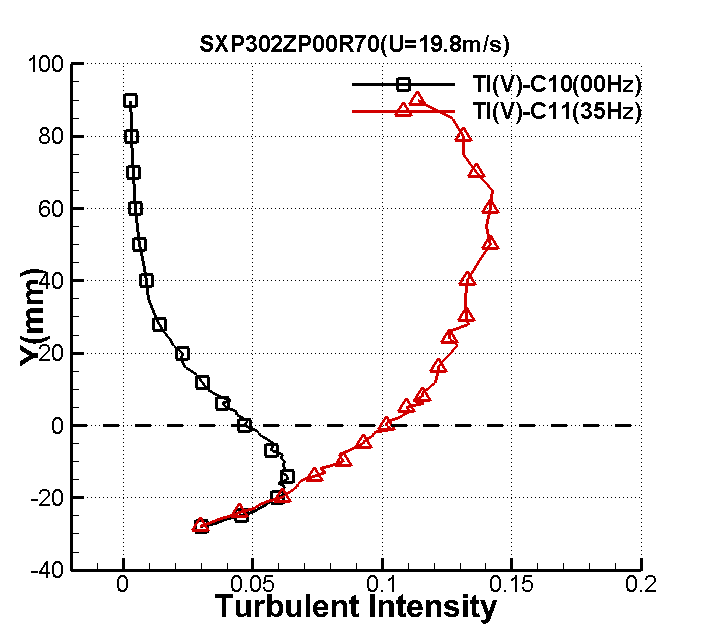
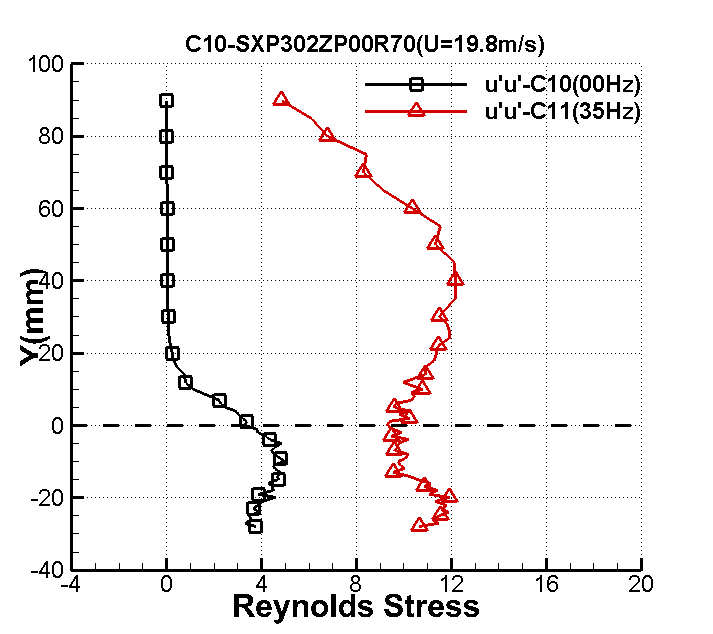
 

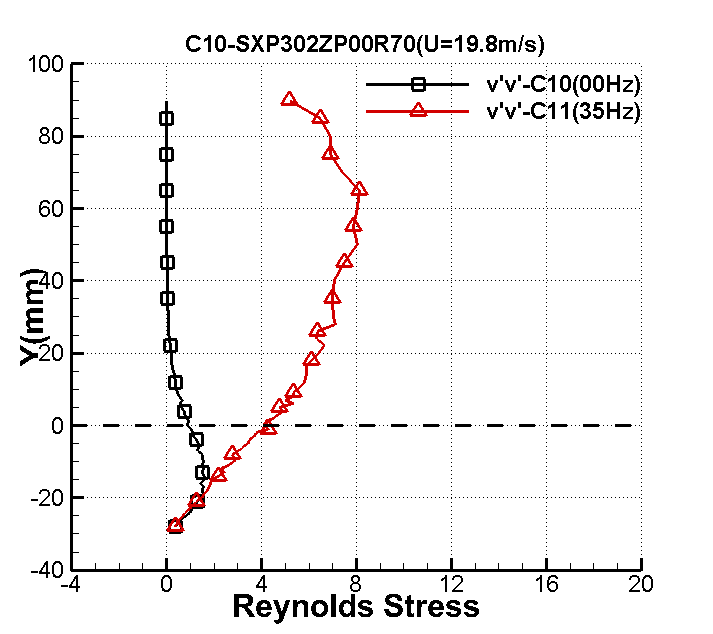
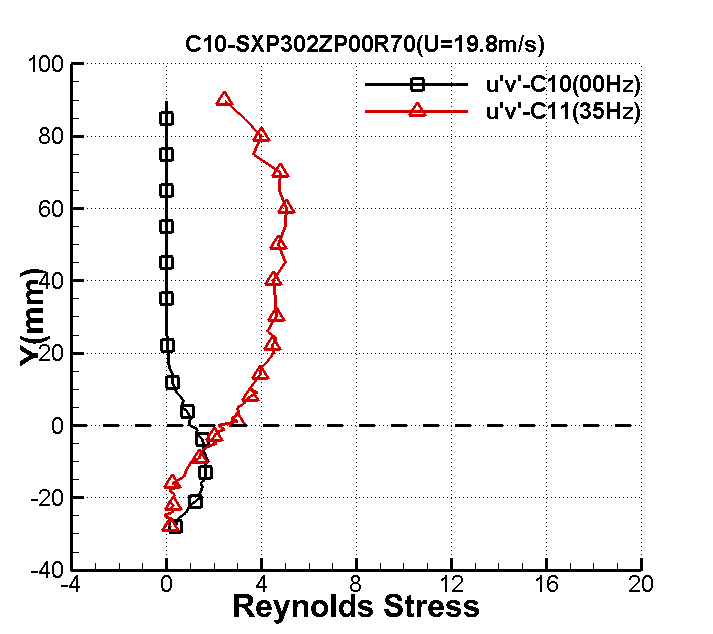
 

**X=10h**

**EXPERIMENTAL DATA**

**BFS\_ BL\_ EXP\_MCP\_NUAA**

**Pressure coefficient**

1.0 -.180

2.0 -.188

3.0 -.189

4.0 -.154

5.0 -.011

6.0 -.023

7.0 .025

8.0 .032

9.0 .031

10.0 .028

11.0 .022

12.0 .015

13.0 .012

**BFS\_ BL\_ EXP\_MSF\_NUAA**

**Skin friction**

1.0 0.218

2.0 -0.040

3.0 -0.304

4.0 -0.508

5.0 -0.416

6.0 -0.044

7.0 0.274

8.0 0.485

9.0 0.750

10.0 0.776

11.0 1.033

12.0 0.817

13.0 0.897

**BFS\_ BL\_ EXP\_TSS\_NUAA**

**Profile of mean velocity, turbulence intensity, and Reynolds stresses**

**x/h=1**

y u T（u） T（v） uu vv uv

-28 1.546768 0.026719 0.010856 0.285568 0.047145 -0.000709

-27 1.561374 0.027053 0.010418 0.292745 0.043410 -0.005016

-26 1.628286 0.029995 0.010924 0.359890 0.047733 -0.017668

-25 1.765260 0.031874 0.011728 0.406369 0.055021 -0.004647

-24 1.793374 0.030425 0.012338 0.370266 0.060891 -0.005104

-23 1.666722 0.033282 0.011213 0.443088 0.050294 -0.014910

-22 1.778340 0.031729 0.011508 0.402692 0.052970 -0.024336

-21 1.718356 0.030758 0.010724 0.378412 0.045997 -0.009537

-20 1.835724 0.034710 0.011740 0.481916 0.055136 -0.043181

-19 1.908035 0.031203 0.011128 0.389446 0.049534 -0.039305

-18 1.805102 0.033080 0.012231 0.437707 0.059843 -0.050984

-17 1.811734 0.031365 0.011866 0.393493 0.056318 -0.047915

-16 1.900317 0.031350 0.011623 0.393135 0.054038 -0.058331

-15 1.877537 0.035538 0.012770 0.505173 0.065226 -0.060357

-14 1.858204 0.034570 0.011997 0.478044 0.057570 -0.057499

-13 1.955382 0.031652 0.012969 0.400732 0.067278 -0.078645

-12 1.862972 0.030058 0.011813 0.361403 0.055823 -0.062242

-11 1.818255 0.031951 0.012287 0.408344 0.060392 -0.074517

-10 1.891201 0.032737 0.012523 0.428693 0.062729 -0.088415

-9 1.941492 0.031937 0.013460 0.407977 0.072474 -0.073463

-8 1.829775 0.031731 0.012856 0.402750 0.066114 -0.059135

-7 1.835821 0.028426 0.012949 0.323205 0.067075 -0.045506

-6 2.124623 0.034099 0.016138 0.465085 0.104175 -0.056615

-5 2.626808 0.041239 0.022281 0.680262 0.198585 -0.152463

-4 3.705980 0.056370 0.031676 1.271045 0.401357 -0.347940

-3 5.246406 0.069046 0.040100 1.906922 0.643202 -0.608251

-2 7.375533 0.073519 0.045604 2.162032 0.831904 -0.777864

-1 9.361581 0.076322 0.045216 2.330018 0.817808 -0.781573

0 11.326505 0.074805 0.040487 2.238309 0.655672 -0.645154

1 13.008885 0.063889 0.031894 1.632737 0.406888 -0.373167

2 13.920048 0.056446 0.026832 1.274476 0.287985 -0.244984

3 14.469229 0.051325 0.023412 1.053707 0.219245 -0.199047

4 14.755242 0.052474 0.022375 1.101425 0.200264 -0.203761

5 15.112646 0.047397 0.021694 0.898596 0.188248 -0.195927

6 15.431596 0.049405 0.019924 0.976325 0.158790 -0.185478

7 15.759193 0.047399 0.019764 0.898648 0.156240 -0.178668

8 15.922691 0.046543 0.019481 0.866502 0.151805 -0.173469

9 16.261740 0.044656 0.018812 0.797661 0.141555 -0.163134

10 16.415917 0.045128 0.019424 0.814616 0.150923 -0.180776

11 16.806207 0.044001 0.018419 0.774427 0.135700 -0.169690

12 16.777616 0.042241 0.018008 0.713717 0.129716 -0.156020

13 17.055974 0.041583 0.018085 0.691644 0.130823 -0.150667

14 17.192547 0.039673 0.017467 0.629568 0.122045 -0.133635

15 17.380397 0.040523 0.017550 0.656836 0.123197 -0.143985

16 17.598949 0.038516 0.016935 0.593394 0.114714 -0.130950

17 17.802098 0.035965 0.016358 0.517396 0.107038 -0.118345

18 17.879073 0.037738 0.016048 0.569673 0.103018 -0.122477

19 17.945729 0.034601 0.015460 0.478887 0.095608 -0.100760

20 18.185973 0.035553 0.015807 0.505604 0.099939 -0.114132

21 18.241020 0.032962 0.015008 0.434608 0.090093 -0.095077

22 18.448711 0.031800 0.014025 0.404494 0.078680 -0.080193

23 18.584044 0.030947 0.013535 0.383083 0.073280 -0.074799

24 18.811622 0.029956 0.013300 0.358934 0.070754 -0.076531

25 18.927644 0.027893 0.012367 0.311213 0.061176 -0.058061

26 18.967689 0.025741 0.011801 0.265031 0.055709 -0.053007

27 19.122530 0.024403 0.011075 0.238199 0.049065 -0.043462

28 19.157112 0.023945 0.010994 0.229338 0.048350 -0.044686

29 19.254690 0.022947 0.010465 0.210626 0.043808 -0.037707

30 19.323824 0.020824 0.009751 0.173457 0.038030 -0.029963

31 19.400059 0.019838 0.009479 0.157414 0.035939 -0.028221

33 19.642599 0.016474 0.008235 0.108563 0.027123 -0.016061

35 19.655533 0.012825 0.007038 0.065790 0.019812 -0.008747

37 19.740633 0.009836 0.006129 0.038697 0.015025 -0.002815

39 19.676174 0.007505 0.005295 0.022528 0.011217 -0.000631

41 19.758959 0.006161 0.004678 0.015184 0.008752 0.0006010

43 19.763398 0.005679 0.004098 0.012901 0.006716 0.001050

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76 19.587975 0.004252 0.002010 0.007232 0.001616 0.001544

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-26 2.447255 0.041635 0.016025 0.693388 0.102715 -0.049052

-25 2.402093 0.041917 0.016102 0.702803 0.103714 -0.048015

-24 2.417352 0.043904 0.017045 0.771029 0.116210 -0.041378

-23 2.533528 0.043141 0.017547 0.744463 0.123158 -0.091235

-22 2.471454 0.043633 0.017106 0.761522 0.117044 -0.074751

-21 2.230013 0.039734 0.016259 0.631501 0.105741 -0.046063

-20 2.333648 0.042722 0.017831 0.730076 0.127182 -0.074022

-19 2.268536 0.040987 0.016209 0.671980 0.105088 -0.070504

-18 2.162298 0.038578 0.015385 0.595299 0.094681 -0.058392

-17 2.245813 0.039402 0.016565 0.621015 0.109760 -0.065867

-16 2.029998 0.035564 0.015377 0.505928 0.094577 -0.053667

-15 2.158871 0.038956 0.017200 0.607040 0.118343 -0.073024

-14 2.105245 0.037510 0.016874 0.562802 0.113890 -0.060885

-13 2.345948 0.040794 0.019046 0.665656 0.145102 -0.089976

-12 2.430815 0.041327 0.020810 0.683179 0.173228 -0.125287

-11 2.699019 0.053553 0.024521 1.147191 0.240503 -0.225436

-10 2.993555 0.053328 0.027456 1.137532 0.301523 -0.274608

-9 3.377770 0.060262 0.030608 1.452607 0.374740 -0.365258

-8 4.195532 0.074479 0.036763 2.218838 0.540597 -0.593019

-7 4.510977 0.071988 0.038257 2.072898 0.585451 -0.575372

-6 5.787002 0.086963 0.045650 3.024999 0.833583 -0.930544

-5 6.744192 0.085391 0.046030 2.916669 0.847520 -0.898462

-4 7.535108 0.091484 0.048833 3.347700 0.953873 -1.038644

-3 8.745468 0.090011 0.049841 3.240797 0.993643 -0.986454

-2 9.702377 0.097855 0.049799 3.830272 0.991965 -1.138358

-1 10.915617 0.092250 0.045461 3.403993 0.826685 -0.923238

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-24 3.141962 0.049637 0.023291 0.985517 0.216980 -0.040949

-23 2.936089 0.047552 0.023127 0.904477 0.213950 -0.007264

-22 3.094960 0.049561 0.024184 0.982504 0.233941 -0.015779

-21 2.885805 0.048086 0.023169 0.924891 0.214724 -0.004683

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-15 3.446151 0.060573 0.030514 1.467658 0.372442 -0.337351

-14 3.785377 0.066257 0.034371 1.755988 0.472548 -0.452490

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4 15.308920 0.059130 0.029176 1.398547 0.340489 -0.292280

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22 18.387245 0.028342 0.013358 0.321299 0.071373 -0.059698

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-20 3.937404 0.069299 0.034023 1.920960 0.463022 -0.244597

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-17 4.315162 0.076549 0.039479 2.343872 0.623450 -0.512589

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-1 13.954233 0.092429 0.045160 3.417276 0.815783 -0.836145

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-21 4.255226 0.078337 0.040193 2.454679 0.646206 -0.593757

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9 16.675366 0.049726 0.030160 0.989056 0.363849 -0.270556

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11 17.073421 0.041554 0.026443 0.690688 0.279692 -0.197078

12 17.394256 0.035124 0.024629 0.493488 0.242630 -0.144489

13 17.458394 0.032263 0.022148 0.416353 0.196213 -0.111595

14 17.459175 0.037212 0.024047 0.553906 0.231299 -0.156540

15 17.841981 0.026041 0.018239 0.271261 0.133063 -0.048941

16 17.752835 0.026692 0.018092 0.284987 0.130926 -0.059063

17 17.909062 0.024833 0.017560 0.246673 0.123345 -0.048172

18 18.051260 0.022849 0.017221 0.208822 0.118621 -0.049372

19 18.171765 0.024020 0.019087 0.230787 0.145729 -0.062341

20 17.978061 0.024507 0.017294 0.240232 0.119639 -0.060284

21 18.364499 0.017157 0.013783 0.117745 0.075990 -0.012588

22 18.199546 0.017163 0.014167 0.117833 0.080282 -0.017202

23 18.333192 0.015583 0.012982 0.097129 0.067414 -0.008555

24 18.274292 0.015756 0.013263 0.099303 0.070360 -0.012493

25 18.368541 0.014664 0.012206 0.086019 0.059597 -0.007211

26 18.388221 0.013106 0.011221 0.068710 0.050361 -0.006162

27 18.435973 0.011446 0.010150 0.052404 0.041212 -0.003415

28 18.480945 0.011571 0.010429 0.053558 0.043503 -0.002871

29 18.468677 0.010924 0.010519 0.047731 0.044262 -0.002125

30 18.594333 0.009931 0.008668 0.039452 0.030056 -0.001067

31 18.415116 0.010060 0.009748 0.040484 0.038007 0.000649

33 18.532156 0.009197 0.008423 0.033831 0.028379 0.002371

35 18.492165 0.008590 0.007294 0.029514 0.021280 0.001982

37 18.570223 0.007928 0.006849 0.025140 0.018764 0.001580

39 18.510924 0.007823 0.006800 0.024482 0.018498 0.001884

41 18.512170 0.007062 0.005403 0.019949 0.011677 0.002134

43 18.469756 0.006901 0.005340 0.019047 0.011408 0.002027

45 18.483350 0.006944 0.005505 0.019287 0.012124 0.001995

47 18.599464 0.006586 0.004512 0.017352 0.008145 0.001978

49 18.686077 0.006426 0.004413 0.016518 0.007789 0.001392

51 18.688833 0.006660 0.004874 0.017742 0.009503 0.001801

56 18.775950 0.006069 0.003833 0.014735 0.005877 0.001637

61 18.679077 0.005730 0.003308 0.013135 0.004376 0.001721

66 18.724747 0.005517 0.003064 0.012174 0.003756 0.001672

71 18.718682 0.005566 0.002633 0.012390 0.002774 0.001905

76 18.754076 0.005225 0.002804 0.010922 0.003146 0.001339

81 18.724946 0.005493 0.002326 0.012070 0.002163 0.001672

86 18.648488 0.005457 0.002264 0.011910 0.002050 0.001673

91 18.617489 0.005482 0.002167 0.012022 0.001879 0.001753

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-28 7.523879 0.090601 0.037403 3.283452 0.559605 -0.296303

-27 7.580572 0.090566 0.040579 3.280904 0.658675 -0.409121

-26 7.657329 0.088794 0.046689 3.153748 0.871961 -0.588761

-25 7.793410 0.095718 0.050243 3.664810 1.009759 -0.761419

-24 8.013884 0.094688 0.053075 3.586303 1.126771 -0.862010

-23 8.367354 0.101461 0.056534 4.117719 1.278434 -1.155365

-22 8.496580 0.092073 0.058928 3.390982 1.389022 -1.075473

-21 8.451723 0.101994 0.059551 4.161077 1.418519 -1.244040

-20 9.090314 0.102595 0.063073 4.210333 1.591290 -1.344793

-19 9.419929 0.105441 0.062293 4.447144 1.552151 -1.412481

-18 9.584984 0.108137 0.063695 4.677436 1.622827 -1.717374

-17 9.815932 0.106114 0.062809 4.504114 1.577998 -1.536852

-16 10.015206 0.110085 0.063152 4.847489 1.595260 -1.591329

-15 10.438311 0.115273 0.061889 5.315152 1.532109 -1.721825

-14 10.928419 0.109967 0.061901 4.837126 1.532691 -1.604855

-13 10.927843 0.114861 0.063020 5.277205 1.588612 -1.804035

-12 11.145943 0.110367 0.061326 4.872332 1.504359 -1.716432

-11 11.397894 0.113477 0.060895 5.150842 1.483280 -1.730111

-10 12.045745 0.111452 0.060560 4.968652 1.467003 -1.661102

-9 12.282597 0.113842 0.058364 5.183957 1.362540 -1.601134

-8 12.925659 0.101147 0.052708 4.092253 1.111256 -1.286279

-7 12.654291 0.108070 0.056353 4.671668 1.270247 -1.353182

-6 13.047539 0.107362 0.055137 4.610634 1.216052 -1.357401

-5 13.369143 0.101450 0.056509 4.116818 1.277285 -1.432082

-4 13.892177 0.101284 0.052542 4.103342 1.104283 -1.285807

-3 14.030719 0.096175 0.049702 3.699867 0.988109 -1.162772

-2 14.468465 0.092072 0.048891 3.390898 0.956135 -1.094480

-1 14.833510 0.080890 0.044192 2.617263 0.781161 -0.753964

0 14.842718 0.094663 0.046484 3.584460 0.864300 -1.050323

1 15.190004 0.091506 0.044451 3.349371 0.790371 -0.957826

2 15.365804 0.079222 0.045860 2.510462 0.841255 -0.857120

3 15.681235 0.072261 0.039702 2.088642 0.630510 -0.589198

4 15.795870 0.069622 0.039604 1.938885 0.627397 -0.647467

5 16.080014 0.060628 0.035564 1.470324 0.505918 -0.484767

6 16.388638 0.060617 0.034834 1.469787 0.485377 -0.447446

7 16.385007 0.063789 0.035098 1.627595 0.492755 -0.491473

8 16.661573 0.048005 0.028290 0.921788 0.320137 -0.258547

9 16.835439 0.041784 0.028012 0.698376 0.313865 -0.214832

10 17.020890 0.038386 0.025381 0.589404 0.257674 -0.165072

11 17.033016 0.041602 0.026422 0.692275 0.279249 -0.187539

12 17.317399 0.039570 0.025480 0.626317 0.259698 -0.170965

13 17.421877 0.036695 0.026234 0.538616 0.275293 -0.171942

14 17.546467 0.031273 0.022852 0.391195 0.208892 -0.101643

15 17.694604 0.030765 0.023666 0.378598 0.224034 -0.106931

16 17.865331 0.026384 0.022018 0.278450 0.193926 -0.093114

17 17.775094 0.027042 0.020388 0.292513 0.166263 -0.059819

18 17.927552 0.022940 0.018602 0.210506 0.138418 -0.045433

19 17.943955 0.024771 0.019018 0.245446 0.144666 -0.076094

20 17.917208 0.022551 0.016791 0.203427 0.112777 -0.041419

21 18.169386 0.018956 0.016633 0.143738 0.110668 -0.029429

22 18.229681 0.015894 0.013922 0.101046 0.077534 -0.014384

23 18.271700 0.015410 0.014365 0.094983 0.082541 -0.015754

24 18.317412 0.013951 0.012695 0.077855 0.064468 -0.005709

25 18.133699 0.014111 0.013166 0.079648 0.069334 -0.008266

26 18.233558 0.013030 0.012502 0.067909 0.062521 -0.006523

27 18.484466 0.011728 0.010542 0.055017 0.044455 -0.003007

28 18.323950 0.012591 0.011683 0.063412 0.054600 -0.008593

29 18.310959 0.010287 0.009563 0.042331 0.036581 -0.000746

30 18.249495 0.011240 0.009916 0.050537 0.039327 -0.004332

31 18.372844 0.009746 0.009226 0.037990 0.034047 0.000929

33 18.456367 0.009513 0.008581 0.036198 0.029453 0.001541

35 18.566771 0.009097 0.008439 0.033099 0.028485 0.001465

37 18.407723 0.007875 0.006955 0.024807 0.019347 0.001159

39 18.474219 0.008052 0.007000 0.025934 0.019601 0.002313

41 18.419898 0.007331 0.005814 0.021496 0.013522 0.001945

43 18.497928 0.007602 0.006536 0.023114 0.017090 0.002345

45 18.462135 0.006648 0.005202 0.017679 0.010824 0.001338

47 18.539300 0.006616 0.004812 0.017509 0.009264 0.001148

49 18.481357 0.006411 0.004524 0.016440 0.008187 0.001437

51 18.549363 0.006357 0.004208 0.016164 0.007084 0.001828

56 18.627281 0.005742 0.003938 0.013187 0.006204 0.001366

61 18.465802 0.005767 0.003422 0.013301 0.004683 0.001512

66 18.461539 0.005611 0.002955 0.012592 0.003494 0.001293

71 18.550022 0.005465 0.002698 0.011947 0.002912 0.001482

76 18.698499 0.005471 0.002644 0.011973 0.002796 0.001421

81 18.572374 0.005650 0.002466 0.012768 0.002433 0.001674

86 18.390722 0.005350 0.002313 0.011449 0.002140 0.001407

91 18.687558 0.005617 0.002271 0.012621 0.002062 0.001782

**x/h=10**

-28 8.472127 0.086742 0.036077 3.009688 0.520610 -0.335651

-27 8.404549 0.087261 0.039247 3.045763 0.616121 -0.366058

-26 8.623952 0.088468 0.043891 3.130617 0.770562 -0.588462

-25 8.704200 0.092120 0.047330 3.394470 0.896065 -0.779570

-24 8.899250 0.090175 0.051158 3.252644 1.046873 -0.732969

-23 9.015415 0.093254 0.054159 3.478498 1.173274 -0.887534

-22 9.280676 0.093058 0.052677 3.463890 1.109935 -0.934193

-21 9.400404 0.095809 0.057139 3.671780 1.305953 -1.180842

-20 9.678729 0.100977 0.058656 4.078547 1.376216 -1.253761

-19 9.840991 0.096979 0.058730 3.762007 1.379662 -1.186301

-18 10.376194 0.097558 0.059418 3.807047 1.412182 -1.226831

-17 10.086745 0.101413 0.059525 4.113811 1.417281 -1.375854

-16 10.863590 0.104939 0.061903 4.404911 1.532790 -1.561325

-15 11.145468 0.104065 0.058189 4.331816 1.354367 -1.436031

-14 11.187167 0.104144 0.060594 4.338428 1.468637 -1.451665

-13 11.642457 0.102439 0.059195 4.197491 1.401639 -1.473507

-12 11.498725 0.105527 0.060434 4.454372 1.460913 -1.605283

-11 12.240408 0.107115 0.059071 4.589409 1.395752 -1.515196

-10 12.355080 0.105419 0.057492 4.445293 1.322122 -1.503771

-9 12.466049 0.103565 0.058343 4.290281 1.361556 -1.461385

-8 12.851643 0.102285 0.055502 4.184915 1.232209 -1.343476

-7 13.052296 0.100989 0.053655 4.079542 1.151564 -1.291459

-6 13.361926 0.097646 0.053944 3.813873 1.163987 -1.266236

-5 13.454473 0.103100 0.054839 4.251873 1.202923 -1.402049

-4 13.700936 0.097947 0.052198 3.837431 1.089873 -1.232037

-3 13.864320 0.097356 0.049767 3.791265 0.990682 -1.141691

-2 14.382045 0.097130 0.050281 3.773723 1.011274 -1.240631

-1 14.659927 0.083307 0.045496 2.776003 0.827969 -0.888479

0 15.084635 0.085820 0.044755 2.946049 0.801218 -0.899047

1 15.129645 0.084908 0.043789 2.883739 0.766988 -0.854415

2 15.354540 0.078595 0.042989 2.470885 0.739233 -0.765952

3 15.781383 0.074370 0.039549 2.212347 0.625651 -0.674953

4 15.743355 0.073807 0.039356 2.179008 0.619545 -0.644264

5 15.915451 0.071575 0.038867 2.049192 0.604253 -0.629546

6 16.272301 0.060326 0.033193 1.455702 0.440699 -0.412271

7 16.285303 0.060686 0.033556 1.473106 0.450397 -0.425861

8 16.611312 0.052586 0.031514 1.106104 0.397257 -0.335832

9 16.639803 0.053849 0.031392 1.159869 0.394185 -0.359383

10 16.899099 0.050461 0.028311 1.018515 0.320613 -0.272444

11 16.820039 0.052177 0.030651 1.088985 0.375804 -0.343942

12 17.215321 0.045409 0.027992 0.824807 0.313422 -0.239324

13 17.290567 0.036980 0.024684 0.547018 0.243721 -0.166768

14 17.346428 0.034661 0.024767 0.480550 0.245360 -0.147038

15 17.342312 0.034958 0.025771 0.488812 0.265651 -0.176022

16 17.524164 0.031613 0.022247 0.399748 0.197968 -0.123249

17 17.706682 0.024733 0.020930 0.244693 0.175226 -0.070242

18 17.681209 0.024363 0.020074 0.237428 0.161185 -0.065852

19 17.878070 0.022310 0.017644 0.199088 0.124526 -0.052122

20 17.806030 0.023314 0.018816 0.217410 0.141610 -0.060673

21 17.942128 0.019410 0.016831 0.150706 0.113311 -0.041014

22 17.939731 0.017707 0.016563 0.125411 0.109738 -0.026926

23 17.927736 0.017069 0.015649 0.116541 0.097962 -0.033678

24 18.092307 0.013466 0.013349 0.072537 0.071282 -0.010372

25 18.178349 0.014301 0.015330 0.081805 0.094000 -0.017029

26 18.119535 0.013452 0.013398 0.072379 0.071801 -0.007392

27 18.231175 0.012221 0.012448 0.059741 0.061981 -0.004417

28 18.076866 0.011825 0.011633 0.055934 0.054135 -0.002150

29 18.042377 0.011474 0.011632 0.052658 0.054123 0.000883

30 18.159810 0.010730 0.010522 0.046055 0.044286 -0.00074

31 18.130382 0.010580 0.010354 0.044774 0.042883 0.001535

33 18.149049 0.010088 0.009450 0.040708 0.035719 0.002488

35 18.218375 0.009380 0.008842 0.035197 0.031275 0.002337

37 18.199823 0.008550 0.007766 0.029243 0.024126 0.001912

39 18.125193 0.008264 0.007361 0.027319 0.021672 0.002051

41 18.079728 0.008327 0.007354 0.027733 0.021634 0.001487

43 18.237009 0.007601 0.006404 0.023112 0.016407 0.001125

45 18.232402 0.007045 0.006132 0.019854 0.015043 0.001461

47 18.214252 0.006979 0.006017 0.019480 0.014480 0.001474

49 18.201510 0.006573 0.004779 0.017279 0.009137 0.001525

51 18.087688 0.006403 0.004663 0.016399 0.008698 0.001513

56 18.263918 0.006221 0.004413 0.015479 0.007788 0.001295

61 18.284703 0.005930 0.003752 0.014066 0.005630 0.001337

66 18.101531 0.006035 0.003248 0.014566 0.004221 0.001304

71 18.187311 0.005304 0.002954 0.011254 0.003490 0.001423

76 18.159405 0.005149 0.002705 0.010605 0.002927 0.001178

81 18.185425 0.005138 0.002516 0.010558 0.002531 0.001190

86 18.121005 0.005375 0.002345 0.011555 0.002200 0.001189

91 18.181476 0.005037 0.002199 0.010148 0.001933 0.001192

**BFS\_ SJ\_ EXP\_MSF\_NUAA**

**Skin friction**

1.0

2.0

3.0 0.263

4.0 1.608

5.0 1.763

6.0 1.843

7.0 2.254

8.0 2.252

9.0 2.157

10.0 2.548

11.0 2.189

12.0 1.986

13.0

**BFS\_ SJ\_ EXP\_TSS\_NUAA**

**Profile of mean velocity, turbulence intensity, and Reynolds stress**

**x/h=1**

y u T（u） T（v） uu vv uv

-28 8.751070 0.193377 0.062095 14.957911 1.542307 -0.481372

-27 8.737619 0.191959 0.063569 14.739253 1.616397 -0.606632

-26 8.719324 0.188174 0.066303 14.163710 1.758428 -0.632731

-25 8.636999 0.192338 0.069914 14.797502 1.955211 -0.634434

-24 8.701932 0.194038 0.073412 15.060354 2.155748 -0.523287

-23 8.824741 0.190832 0.076679 14.566767 2.351839 -0.739335

-22 8.849252 0.192647 0.078575 14.845183 2.469626 -0.390518

-21 8.766170 0.186812 0.081632 13.959497 2.665521 0.138951

-20 8.931599 0.185801 0.085331 13.808874 2.912574 0.350953

-19 8.908350 0.186325 0.087377 13.886773 3.053909 0.526992

-18 8.906202 0.176445 0.089925 12.453189 3.234597 0.938335

-17 8.948647 0.180269 0.088902 12.998820 3.161440 0.997255

-16 8.973409 0.173901 0.090242 12.096618 3.257429 1.170358

-15 8.641439 0.167625 0.091724 11.239251 3.365292 1.434606

-14 8.743625 0.159091 0.090141 10.123946 3.250144 1.343643

-13 8.622891 0.150975 0.093879 9.117365 3.525329 1.336094

-12 8.930307 0.145656 0.094986 8.486300 3.608969 0.996193

-11 8.968473 0.136621 0.099026 7.466105 3.922460 0.382407

-10 9.108170 0.132330 0.098358 7.004513 3.869726 0.164470

-9 9.281182 0.126195 0.097386 6.370094 3.793577 -0.327534

-8 9.260327 0.133119 0.097028 7.088300 3.765805 -1.042784

-7 9.529769 0.138084 0.100784 7.626837 4.062956 -1.649228

-6 10.062795 0.139007 0.105511 7.729159 4.453032 -2.611734

-5 10.053487 0.136578 0.112963 7.461400 5.104234 -3.093880

-4 10.474889 0.137164 0.115542 7.525589 5.340006 -3.218127

-3 10.963791 0.144813 0.126503 8.388340 6.401247 -3.746840

-2 10.979333 0.145995 0.134310 8.525870 7.215617 -4.290888

-1 11.497602 0.145448 0.136365 8.462026 7.438138 -4.665874

0 11.781510 0.155936 0.141629 9.726425 8.023504 -5.138704

1 12.042113 0.149509 0.144993 8.941227 8.409149 -5.005940

2 12.208261 0.159021 0.150494 10.115050 9.059393 -5.903995

3 12.687415 0.157717 0.149106 9.949867 8.893066 -5.822279

4 12.796567 0.164597 0.151244 10.836920 9.149866 -6.296989

5 13.183430 0.164557 0.151879 10.831565 9.226932 -6.468468

6 13.658429 0.165593 0.150649 10.968430 9.078095 -6.684367

7 13.929581 0.177296 0.151759 12.573505 9.212375 -7.495986

8 14.226082 0.176854 0.150028 12.510868 9.003360 -7.538532

9 14.461127 0.182837 0.145886 13.371804 8.513125 -7.674274

10 14.662505 0.183029 0.142727 13.399778 8.148346 -7.552391

12 15.588567 0.179698 0.135218 12.916540 7.313563 -6.874310

14 16.393762 0.170693 0.124831 11.654409 6.233063 -5.673274

16 17.143408 0.154799 0.118368 9.585154 5.604419 -4.281638

18 17.757247 0.149247 0.113523 8.909877 5.154946 -3.210247

20 18.276380 0.137526 0.105769 7.565356 4.474818 -2.051038

22 18.783894 0.126127 0.098316 6.363179 3.866427 -0.991528

24 18.939143 0.117023 0.092228 5.477767 3.402386 -0.619208

26 19.112138 0.108251 0.087040 4.687343 3.030399 -0.571999

28 19.210504 0.100257 0.079932 4.020600 2.555668 -0.420233

30 19.421916 0.095605 0.075417 3.656116 2.275083 -0.329400

35 19.573046 0.082085 0.062357 2.695172 1.555334 -0.117827

40 19.615860 0.070765 0.052007 2.003063 1.081871 -0.009330

45 19.601986 0.061534 0.043792 1.514552 0.767082 0.019537

50 19.536960 0.053361 0.037301 1.138944 0.556540 0.015590

55 19.403145 0.045058 0.030333 0.812075 0.368035 0.004756

60 19.368894 0.039028 0.025575 0.609272 0.261639 -0.008610

65 19.477606 0.034295 0.022535 0.470452 0.203127 -0.006500

70 19.148671 0.029156 0.018494 0.340037 0.136814 -0.013923

75 19.210664 0.025498 0.015667 0.260050 0.098180 -0.011516

80 19.177170 0.022341 0.013343 0.199646 0.071219 -0.010309

85 19.195648 0.019586 0.011512 0.153450 0.053012 -0.010981

90 19.217460 0.017618 0.010141 0.124151 0.041139 -0.009463

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-26 5.752248 0.117095 0.048746 5.484514 0.950478 -0.290210

-25 5.865075 0.114021 0.050958 5.200316 1.038707 -0.402873

-24 6.007388 0.117418 0.053653 5.514752 1.151437 -0.642182

-23 6.139876 0.112638 0.057653 5.074906 1.329528 -0.752875

-22 6.085522 0.117966 0.059820 5.566368 1.431390 -0.875068

-21 6.304835 0.115199 0.062653 5.308368 1.570171 -0.806980

-20 6.108527 0.114711 0.064531 5.263441 1.665721 -0.884227

-19 6.452649 0.118362 0.069045 5.603848 1.906911 -1.145632

-18 6.540986 0.117649 0.070204 5.536522 1.971464 -1.080464

-17 6.846489 0.119447 0.075121 5.707008 2.257251 -1.061591

-16 7.024889 0.122274 0.077189 5.980363 2.383287 -1.325012

-15 6.947576 0.127476 0.079024 6.500009 2.497941 -1.170660

-14 7.234695 0.125675 0.080007 6.317700 2.560471 -1.304607

-13 7.215372 0.133108 0.081166 7.087076 2.635178 -1.657177

-12 7.117144 0.128450 0.082481 6.599782 2.721215 -1.575998

-11 7.314299 0.131894 0.086302 6.958410 2.979218 -1.758917

-10 7.498745 0.133232 0.086898 7.100284 3.020506 -2.165392

-9 7.822414 0.142803 0.093866 8.157097 3.524327 -2.012121

-8 8.083206 0.146315 0.095871 8.563206 3.676507 -2.045828

-7 8.256000 0.146534 0.100608 8.588901 4.048821 -2.319651

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-5 8.692465 0.152169 0.110336 9.262156 4.869612 -2.047128

-4 8.979341 0.148150 0.111613 8.779401 4.982969 -2.092165

-3 9.271081 0.150536 0.117172 9.064436 5.491692 -2.562087

-2 9.363716 0.151643 0.121663 9.198201 5.920736 -2.715282

-1 9.826230 0.150591 0.125114 9.071070 6.261448 -2.460153

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2 10.819852 0.155173 0.136574 9.631505 7.460957 -2.665574

3 10.922549 0.150132 0.141239 9.015871 7.979418 -2.782002

4 11.289289 0.152676 0.143518 9.323925 8.238926 -2.805208

5 11.484920 0.154171 0.144302 9.507519 8.329239 -2.679525

6 11.821576 0.156343 0.145186 9.777260 8.431625 -3.276052

7 11.998219 0.156449 0.149576 9.790530 8.949174 -2.783579

8 12.383980 0.155154 0.148863 9.629113 8.864073 -2.991776

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14 14.103013 0.150692 0.149926 9.083211 8.991120 -3.574912

16 14.775250 0.143058 0.149253 8.186190 8.910612 -3.314350

18 14.931351 0.159252 0.148387 10.144499 8.807428 -4.222321

20 15.726131 0.146400 0.146097 8.573138 8.537771 -3.446659

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26 17.238624 0.142797 0.134176 8.156388 7.201298 -2.907337

28 17.764465 0.131886 0.126360 6.957546 6.386788 -2.183982

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50 19.615879 0.081934 0.080999 2.685250 2.624335 -0.231352

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90 19.696132 0.024465 0.027128 0.239415 0.294366 -0.034798

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-25 7.013489 0.178657 0.043585 12.767349 0.759858 -0.732295

-24 7.216427 0.178041 0.048066 12.679386 0.924120 -0.666981

-23 7.190782 0.173525 0.051227 12.044364 1.049700 -0.784603

-22 7.686284 0.169841 0.056655 11.538408 1.283936 -0.629359

-21 8.068150 0.172236 0.061334 11.866087 1.504750 -0.910327

-20 7.891591 0.170156 0.060434 11.581193 1.460919 -1.000404

-19 8.253406 0.169598 0.066600 11.505394 1.774227 -1.167143

-18 8.487880 0.164499 0.070852 10.823933 2.008011 -0.971477

-17 8.579914 0.169269 0.071458 11.460842 2.042478 -1.229944

-16 8.947080 0.164858 0.076195 10.871229 2.322285 -1.131466

-15 8.674432 0.167672 0.075802 11.245533 2.298365 -1.529600

-14 8.981477 0.164818 0.081710 10.865928 2.670601 -1.547042

-13 8.965729 0.160692 0.084245 10.328811 2.838892 -1.666001

-12 9.177407 0.162776 0.088300 10.598350 3.118767 -1.884720

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-10 9.553057 0.171831 0.093749 11.810420 3.515575 -2.108230

-9 9.616645 0.163318 0.098506 10.669100 3.881392 -2.181855

-8 9.640501 0.163232 0.101986 10.657920 4.160434 -2.294972

-7 9.763536 0.165993 0.101419 11.021528 4.114342 -2.652633

-6 9.785391 0.164784 0.106038 10.861499 4.497664 -2.801628

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-4 9.896337 0.162659 0.108824 10.583176 4.737097 -3.033827

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-2 10.344866 0.162071 0.116445 10.506842 5.423739 -3.139311

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