**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**

****

**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**







**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

45 19.652269 0.005403 0.003755 0.011679 0.005641 0.001844

47 19.762713 0.004788 0.003345 0.009170 0.004476 0.001548

49 19.808711 0.004747 0.003046 0.009013 0.003712 0.001700

51 19.792036 0.004413 0.002947 0.007788 0.003473 0.001446

56 19.741378 0.004539 0.002476 0.008242 0.002451 0.001546

61 19.647374 0.004180 0.002188 0.006990 0.001915 0.001340

66 19.703300 0.004217 0.002078 0.007112 0.001728 0.001439

71 19.673443 0.004293 0.002028 0.007373 0.001645 0.001550

76 19.587975 0.004252 0.002010 0.007232 0.001616 0.001544

81 19.556731 0.004090 0.001943 0.006691 0.001510 0.001543

86 19.508267 0.004152 0.001902 0.006895 0.001447 0.001302

91 19.528817 0.004037 0.001921 0.006519 0.001477 0.001343

**x/h=2**

-28 2.448970 0.043835 0.015600 0.768616 0.097340 -0.056572

-27 2.323112 0.040686 0.015575 0.662139 0.097038 -0.054413

-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

0 12.159997 0.080324 0.041117 2.580800 0.676248 -0.757204

1 12.950073 0.077076 0.038393 2.376302 0.589602 -0.637512

2 13.885953 0.069933 0.033722 1.956271 0.454858 -0.448410

3 14.348904 0.065778 0.031623 1.730703 0.399996 -0.375259

4 14.891503 0.054706 0.027131 1.197117 0.294444 -0.245898

5 15.304461 0.052914 0.026946 1.119951 0.290444 -0.265013

6 15.780743 0.049237 0.023918 0.969709 0.228821 -0.181931

7 15.830682 0.047334 0.023362 0.896212 0.218313 -0.175724

8 16.163377 0.045530 0.022356 0.829186 0.199924 -0.173246

9 16.242643 0.044290 0.020995 0.784632 0.176311 -0.159734

10 16.515031 0.042892 0.019935 0.735904 0.158961 -0.147178

11 16.715710 0.042452 0.019028 0.720862 0.144829 -0.141545

12 16.794451 0.041112 0.019140 0.676079 0.146532 -0.143922

13 17.102955 0.039934 0.018315 0.637888 0.134175 -0.128598

14 17.253119 0.039679 0.018142 0.629763 0.131647 -0.136138

15 17.470069 0.036719 0.016833 0.539327 0.113336 -0.112163

16 17.586507 0.036505 0.016599 0.533040 0.110216 -0.106708

17 17.668312 0.035958 0.016748 0.517197 0.112203 -0.115154

18 17.961036 0.034090 0.015465 0.464844 0.095668 -0.101048

19 18.039387 0.034348 0.015327 0.471920 0.093972 -0.099737

20 18.196613 0.033316 0.014754 0.443991 0.087074 -0.091529

21 18.256989 0.030429 0.014099 0.370365 0.079517 -0.077491

22 18.354546 0.030769 0.014044 0.378699 0.078891 -0.076602

23 18.524242 0.030065 0.013099 0.361570 0.068637 -0.068851

24 18.734107 0.027858 0.012710 0.310420 0.064620 -0.057670

25 18.753553 0.026743 0.011990 0.286066 0.057505 -0.050660

26 18.820268 0.024320 0.011784 0.236578 0.055545 -0.049119

27 19.047252 0.022806 0.010734 0.208039 0.046086 -0.035613

28 19.113736 0.021591 0.010542 0.186466 0.044449 -0.034740

29 19.187496 0.022077 0.010082 0.194951 0.040659 -0.032578

30 19.333146 0.018966 0.009309 0.143876 0.034667 -0.024478

31 19.421488 0.018556 0.008855 0.137731 0.031361 -0.022848

33 19.555413 0.013164 0.007571 0.069318 0.022928 -0.009545

35 19.591335 0.011753 0.006964 0.055250 0.019399 -0.006907

37 19.623909 0.008547 0.006053 0.029224 0.014655 -0.001592

39 19.635123 0.006600 0.005039 0.017423 0.010158 -0.000461

41 19.588663 0.005921 0.004557 0.014024 0.008305 0.000682

43 19.651153 0.005009 0.003980 0.010038 0.006336 0.001000

45 19.579921 0.004893 0.003695 0.009576 0.005462 0.001181

47 19.609506 0.004634 0.003432 0.008589 0.004711 0.001599

49 19.580070 0.004758 0.003081 0.009055 0.003797 0.001964

51 19.591128 0.004529 0.002967 0.008206 0.003520 0.001775

56 19.533875 0.004592 0.002636 0.008433 0.002779 0.002006

61 19.551092 0.004294 0.002344 0.007377 0.002198 0.001605

66 19.449949 0.004389 0.002171 0.007704 0.001885 0.001902

71 19.427192 0.004217 0.002121 0.007113 0.001800 0.001805

76 19.453237 0.004166 0.002081 0.006943 0.001733 0.001622

81 19.368856 0.004001 0.001941 0.006404 0.001507 0.001463

86 19.404386 0.003999 0.001938 0.006398 0.001502 0.001531

91 19.305875 0.004281 0.002062 0.007330 0.001701 0.001845

**x/h=3**

-28 3.386572 0.048481 0.021252 0.940144 0.180653 0.003299

 -27 3.238413 0.049775 0.021368 0.991003 0.182644 -0.015268

 -26 3.210371 0.050317 0.024142 1.012727 0.233134 -0.004468

 -25 3.175700 0.050476 0.023529 1.019147 0.221453 -0.039408

 -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

 -20 3.043579 0.049278 0.024565 0.971326 0.241377 -0.011667

 -19 3.050103 0.052422 0.025265 1.099237 0.255338 -0.086200

 -18 3.030030 0.048371 0.026171 0.935913 0.273978 -0.068225

 -17 3.069778 0.052934 0.024344 1.120814 0.237048 -0.136469

 -16 3.137540 0.054865 0.028123 1.204057 0.316351 -0.253579

 -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

 -13 3.951234 0.075048 0.035739 2.252897 0.510917 -0.506793

 -12 4.345093 0.077507 0.038460 2.402905 0.591656 -0.641093

 -11 5.231331 0.082557 0.043690 2.726259 0.763511 -0.820861

 -10 5.584453 0.087468 0.045826 3.060277 0.839999 -0.899998

 -9 6.176361 0.092707 0.050017 3.437831 1.000681 -1.038537

 -8 6.904223 0.098057 0.051269 3.846091 1.051389 -1.144853

 -7 7.819338 0.094154 0.050770 3.545977 1.031034 -1.040964

 -6 8.416866 0.098092 0.053302 3.848778 1.136439 -1.228516

 -5 9.299771 0.099316 0.053053 3.945441 1.125832 -1.188631

 -4 10.219813 0.101625 0.051777 4.131039 1.072328 -1.237337

 -3 11.006040 0.097243 0.049979 3.782507 0.999161 -1.093592

 -2 11.921137 0.090447 0.045840 3.272233 0.840526 -0.905209

 -1 12.771360 0.084028 0.042641 2.824309 0.727299 -0.789251

 0 13.146689 0.085165 0.043520 2.901226 0.757610 -0.801770

 1 13.797548 0.077222 0.039424 2.385274 0.621710 -0.620069

 2 14.386603 0.070852 0.035361 2.008015 0.500167 -0.477882

 3 14.851155 0.062943 0.032405 1.584710 0.420038 -0.360666

 4 15.308920 0.059130 0.029176 1.398547 0.340489 -0.292280

 5 15.645656 0.050990 0.026931 1.040004 0.290121 -0.223411

 6 15.860753 0.049697 0.027023 0.987918 0.292098 -0.219485

 7 16.047444 0.047676 0.025287 0.909196 0.255769 -0.196599

 8 16.301131 0.044593 0.023660 0.795406 0.223924 -0.173561

 9 16.527983 0.041589 0.022585 0.691861 0.204028 -0.140917

10 16.677912 0.042165 0.021272 0.711147 0.180993 -0.143857

11 16.884030 0.041221 0.020347 0.679664 0.165593 -0.139720

12 17.031260 0.040187 0.019319 0.645992 0.149287 -0.137623

13 17.256202 0.036957 0.018767 0.546323 0.140883 -0.113322

14 17.370530 0.037735 0.018101 0.569580 0.131052 -0.117441

15 17.352570 0.036097 0.017506 0.521205 0.122581 -0.106546

16 17.604091 0.035555 0.017395 0.505660 0.121028 -0.103300

17 17.833154 0.034173 0.015672 0.467128 0.098248 -0.088273

18 17.844807 0.031687 0.015393 0.401622 0.094777 -0.079250

19 18.016713 0.031917 0.015150 0.407468 0.091805 -0.084404

20 18.004348 0.029945 0.014285 0.358690 0.081622 -0.075959

21 18.247154 0.030147 0.013845 0.363533 0.076669 -0.064275

22 18.387245 0.028342 0.013358 0.321299 0.071373 -0.059698

23 18.483161 0.026582 0.012239 0.282649 0.059917 -0.051809

24 18.569906 0.025249 0.011491 0.255013 0.052817 -0.041657

25 18.671701 0.023791 0.011181 0.226406 0.050002 -0.035970

26 18.789107 0.023497 0.010985 0.220842 0.048265 -0.040237

27 18.888510 0.020329 0.010025 0.165306 0.040197 -0.023558

28 19.001348 0.019765 0.009888 0.156270 0.039105 -0.026315

29 19.022040 0.017817 0.008964 0.126973 0.032141 -0.018060

30 19.031032 0.016036 0.008633 0.102858 0.029813 -0.012678

31 19.091294 0.014411 0.008057 0.083069 0.025964 -0.009368

33 19.261819 0.011798 0.007171 0.055678 0.020568 -0.004001

35 19.377127 0.009276 0.006504 0.034419 0.016920 -0.002751

37 19.292343 0.007318 0.005433 0.021419 0.011809 0.0007840

39 19.255933 0.005964 0.004778 0.014226 0.009132 0.0012700

41 19.246553 0.005452 0.004250 0.011890 0.007227 0.0016520

43 19.240234 0.005346 0.004043 0.011431 0.006538 0.0020710

45 19.289446 0.004951 0.003668 0.009804 0.005383 0.002070

47 19.264064 0.004796 0.003348 0.009200 0.004483 0.002189

49 19.269356 0.004962 0.003134 0.009848 0.003929 0.002459

51 19.044937 0.004480 0.002925 0.008029 0.003423 0.001933

56 19.142445 0.004355 0.002512 0.007586 0.002524 0.001909

61 19.165061 0.004412 0.002391 0.007788 0.002288 0.001994

66 19.150396 0.004603 0.002283 0.008476 0.002084 0.002122

71 19.064480 0.004456 0.002245 0.007944 0.002016 0.002202

76 19.034704 0.004361 0.002149 0.007608 0.001847 0.002009

81 19.014866 0.004214 0.002047 0.007102 0.001677 0.001652

86 19.035879 0.004285 0.002056 0.007345 0.001691 0.001890

91 19.045868 0.004123 0.002077 0.006798 0.001726 0.001764 **x/h=4**

-283.966952 0.057291 0.026856 1.312899 0.288493-0.022673

 -27 3.856921 0.057812 0.027936 1.336892 0.312170 -0.047891

 -26 3.768498 0.058614 0.026948 1.374263 0.290470 -0.027350

 -25 3.788346 0.055257 0.028603 1.221346 0.327257 -0.003326

 -24 3.714152 0.054403 0.030001 1.183885 0.360024 -0.081128

 -23 3.800196 0.059094 0.031637 1.396828 0.400369 -0.101632

 -22 3.777145 0.062182 0.033762 1.546623 0.455960 -0.148212

 -21 3.849921 0.061677 0.032672 1.521643 0.426975 -0.195418

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 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