

Data Submission Clarifications

File name: participantName_participant_info.dat

- To fill with as much info as possible (1 for all the cases);
- A field can remain empty if unknown;
- Use standard names for the models (For turbulence models: SA, SST, SST-2003, ...), (For thermodynamics models: Messinger, Iterative Messinger, Extended Messinger, Shallow Water Icing,...).

File name: caseN_participantName_cutData.dat

- Must contain the solution for a specific case (ex 1.1);
- If different models are used, provide different files for each variant;
- The variable to provide are specified in the file template;
- Each cut must be contained in one zone;
- Data must be in meters;
- For 3D cases, 3 cuts must be in the file (at $Y = 0.4572$ m, $y = 0.9144$ m, and $Y = 1.3716$ m using the provided mesh). Specify the positions in the zone names (SpanwisePercentage25, SpanwisePercentage50, SpanwisePercentage75);
- The cuts must be at constant spanwise sections at $AoA = 0$ deg;
- Zones can be added to the file to specify the solution at different ice accretion times (for multi-layer codes).

File name: caseN_participantName_finalIceShape.dat

- Must contain the final ice shape for the 2D case (1 zone, remove the maxCCS, and minCCS in the zone name). Use the iceThicknessTool_ipw.py script for 2D;
- Must contain the MaxCCS and the MinCCS in two different zones for 3D cases. Use the mccsTool_ipw.py for 3D;
- The MCCS must be at the midsection ($y = 0.9144$ m) using 30 sections.

File name: caseN_participantName_auxiliaryData.dat

- Only to be used to provide AUX. DATA for a specific zone.

1 Commands to use for the scripts

For 3D Cuts

```
python cutTool_ipw.py -axis y -normal 0.0 1.0 0.0 -pos 0.4572 0.9144 1.3716 -scale 1.0 -tecplotFiles  
'test.plt' -output 'cutTest.dat' -angle 3.7
```

For MCCS Inboard

```
python mcsTool_ipw.py -MCCSAxis y -MCCSExtremums -0.327999 -0.175599 -tecplotFile 'sur-  
faceSolution.plt' -MCCSOutputFile 'MCCS_In.dat' -nslice 30 -sweepAngle 37.15 -angle 3.7  
-rectangularZoneXLimits -2.5 -1.0 -rectangularZoneYLimits -0.327999 -0.175599 -rectangularZoneZLimits  
-0.6 0.6 -nx 5000 -nz 5000
```

For MCCS MidSpan

```
python mcsTool_ipw.py -MCCSAxis y -MCCSExtremums 0.098575 0.250975 -tecplotFile 'sur-  
faceSolution.plt' -MCCSOutputFile 'MCCS_Mid.dat' -nslice 30 -sweepAngle 37.15 -angle 3.7 -  
rectangularZoneXLimits -1.7 -0.8 -rectangularZoneYLimits 0.098575 0.250975 -rectangularZoneZLimits  
-0.35 0.35 -nx 5000 -nz 5000
```