

Feedback on GMGW Committee Provided HL-CRM Meshes

The GMGW-1 organizing committee would very much appreciate your feedback on the meshes we generated of the NASA High Lift Common Research Model (HL-CRM) for the 3rd AIAA CFD High Lift Prediction Workshop (HiLiftPW-3). Your feedback will help use evolve our processes and procedures to better support future CFD workshops while also contributing to our goal of realizing the meshing aspects of the CFD 2030 Vision.

For each of the committee-supplied meshes you used, please answer the following questions.

1. Which meshes did you use? (Identify by filename on the ftp site.)
2. Did you need to convert the file(s) into a different format from that supplied before use? If so, to what format and why? What tool did you use to do the conversion?
 - a. If you did not use the CGNS format, which format did you use and why?
 - b. If you used an alternate format, what tool did you use to convert the CGNS file to that file format?
3. Did you do any mesh quality checks on the mesh before using it in your flow solver? If so, can you describe:
 - a. Mesh quality criteria you used to evaluate the mesh
 - b. Mesh quality criteria thresholds (maximum and/or minimum allowable values)
 - c. Any violations of your mesh quality criteria thresholds
4. If you answered **Yes** to Question 2, were your mesh quality criteria based on your own best practices or imposed by the flow solver you used for the workshop?
5. Did you have to modify the mesh prior to using it in your solver? If so, please describe your modifications.
6. Would you provide details of (or a reference to where we can find) the discretization stencil employed by the flow solver you used in the workshop (cell-centered, node-centered, boundary condition application, etc.).
7. Did you have to modify the mesh to get your solution to converge in your solver? If so, please describe your modifications.
8. Even if you chose not to modify the mesh, would you have generated it differently (clustering and/or number of grid points, topology choices, etc.)? Please describe how and why and note any deviations or other comments on the HiLiftPW-3 gridding guidelines.

If you did not use a committee-provided mesh, do not forget to complete and submit the Participant Questionnaire along with your mesh file. (See instructions on HiLiftPW-3 website.)