

DPW-8 & AePW-4

Buffet Working Group



July 21, 2026

aiaabuffet@gmail.com



- Unresolved questions still exist
- **See Slides 52 and 53 from the workshop review presentation:**
<https://www.aiaa-dpw.org/presentations/workshop2026/227-Pomeroy-Buffer-Summary.pdf>
- **Consider running a few simulations to help the community answer these questions**

Test Case 2 Cadence Grid Update

- Slight updates have been made to the Cadence Test Case 2 grids
- Farfield has been slightly refined relative to Cadence_Grids.REV01
 - Maintains consistency with jig counterparts
 - No significant near-body changes
- **Per Claudio:**

...the farfield in the Version 1 JAXA meshes was slightly coarser than their JIG counterpart. Version 2 of the JAXA meshes should resolve this discrepancy. We would appreciate it if users could give these new meshes a try as time permits and let us know if they face any issues.
- **Grids available at:** dpw.larc.nasa.gov/DPW8/Bufet/Test_Case_2/Cadence_Grids.REV02

- Seven sessions (2.5 buffet)
- No singular all-hands meeting is scheduled (is there desire for one?)
- Community meetings will be scheduled

Buffet-Related Paper/Presentations

Session	Presenter/Author	Title
Buffet 1	Joel St. Onge	Transonic Buffet Determination for the ONERA OAT15A Airfoil
Buffet 1	Kevin Jacobson	ONERA OAT15A Buffet Predictions with FUN3D
Buffet 1	Konrad Goc	Large Eddy Simulations of Transonic Buffet on the ONERA OAT15A Airfoil
Buffet 2	Jeff Housman	Evaluation of a Stress-Corrected Large Eddy Simulation Method for Transonic Buffet Analysis of the NASA Common Research Model
Buffet 2	Tausif Jamal	USM3D-ME Contributions to the Eighth Drag and Fourth Aeroelastic Prediction Workshop
Buffet 2	Rafael Vieira	Transonic Shock Buffet Lattice-Boltzmann Simulations Using PowerFLOW® for the 8th Drag and 4th Aeroelastic Prediction Workshops
Buffet 2	Brett Bornhoft	Wall-modeled Large-Eddy Simulation of Transonic Buffet on the JAXA CRM
Buffet 2	Andrew Sansica	JAXA's Contribution to the 8th Drag Prediction Workshop using FaSTAR
Buffet 2	Eduardo Molina	Immersed Boundary Wall-modeled Large Eddy simulations for Buffet Onset Prediction on Transonic Aircraft
Buffet 3	Michael Candon	RMIT/ANSYS/Duke Contribution to the DPW-8/AePW-4 Buffet Working Group
Buffet 3	Johan Jansson	First-principles fast Adaptive Euler FSI development and results in the Drag and Aeroelastic Prediction Workshop
Buffet 3	Steve Lamberson	HPCMP CREATETM-AV Kestrel Simulations for the DPW-8/AePW-4 Buffet Working Group: Part II
Buffet 3	Paul Batten	CFD++ Computations of the DPW-8 Buffet Working Group Cases 1 and 3
Buffet 3	Brent Pomeroy	Summary of the Buffet Working Group for the Eighth Drag and Fourth Aeroelastic Prediction Workshop



aiaabuffet@gmail.com