

Preliminary Statistical Analysis of CFD Solutions

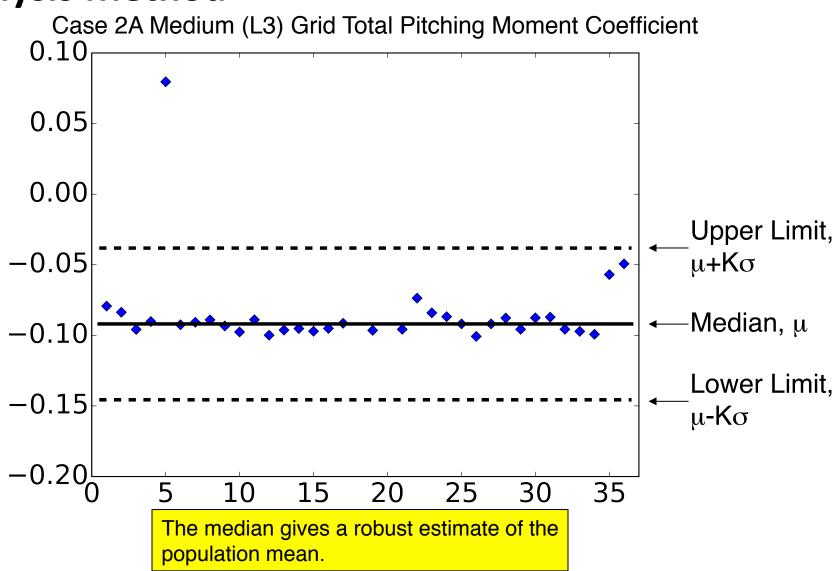


Joseph Derlaga,
Joseph Morrison,
and the DPW Organizing Committee



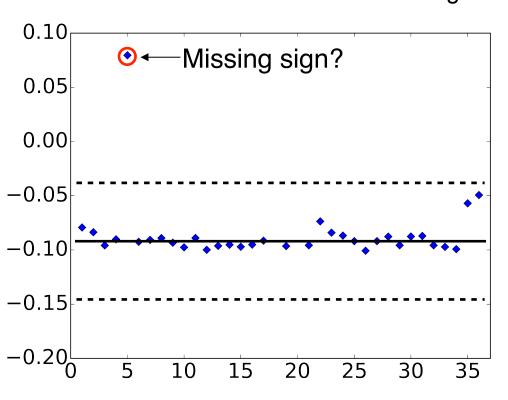
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Analysis Method



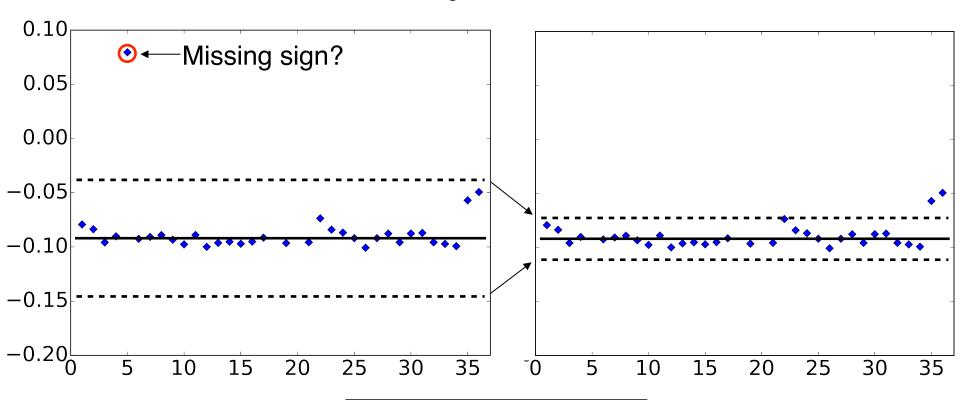


Case 2A Medium (L3) Grid Total Pitching Moment Coefficient



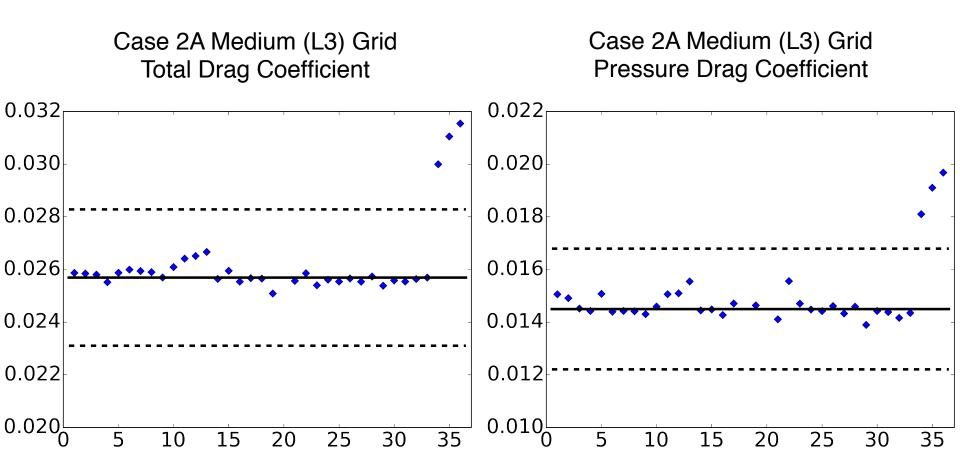


Case 2A Medium (L3) Grid Total Pitching Moment Coefficient



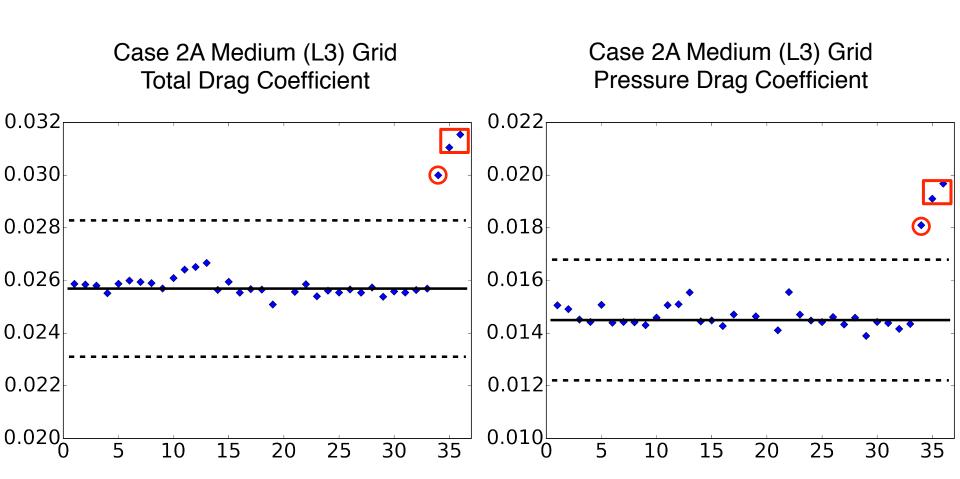
NB: Same vertical axis range!

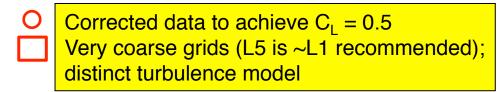




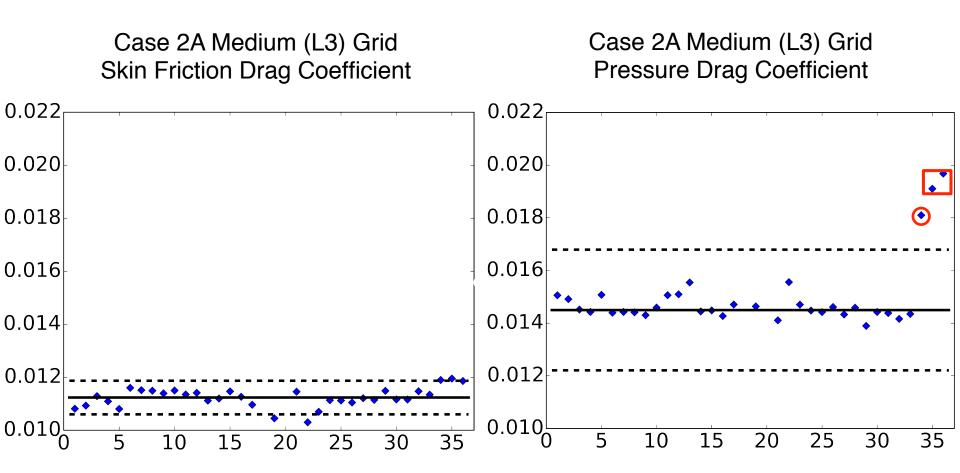
NB: Same vertical axis scale, but different range!





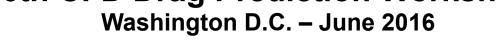


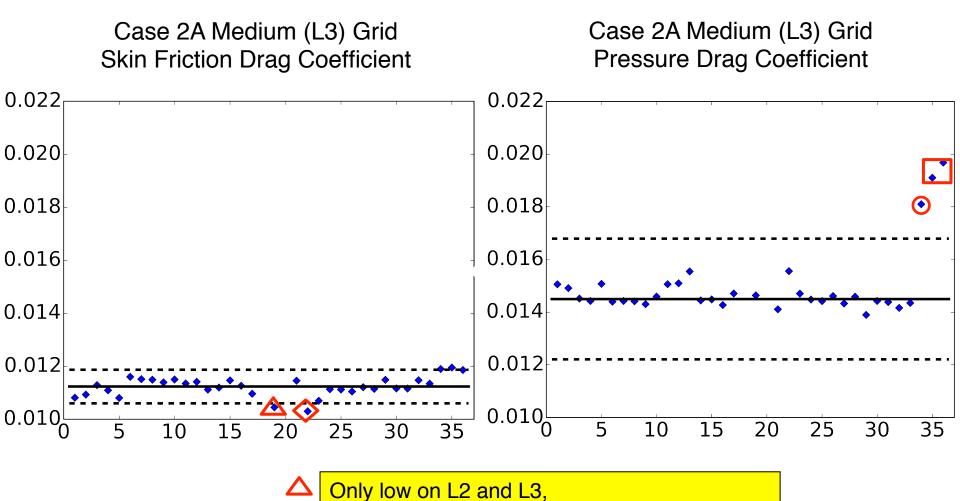




NB: Same vertical axis range!



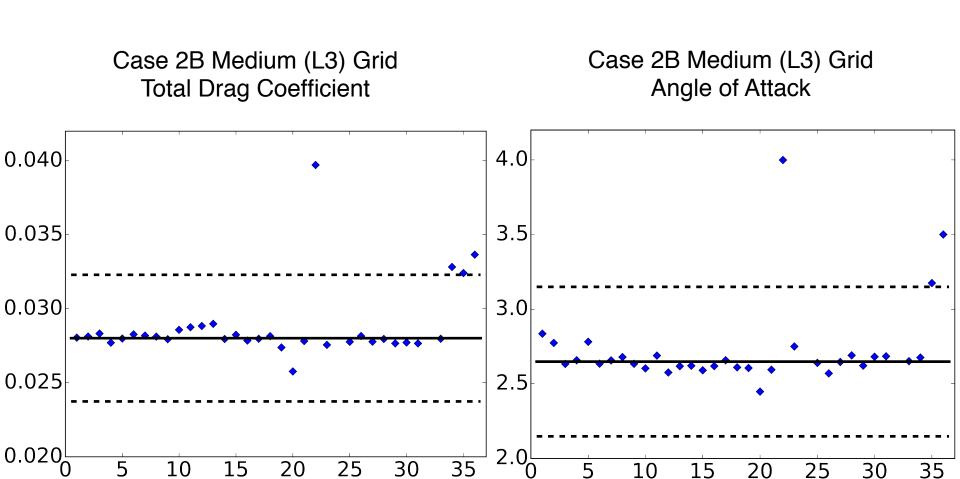




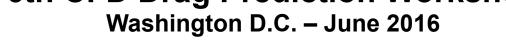
but tend to be the lowest values on L4 and L5

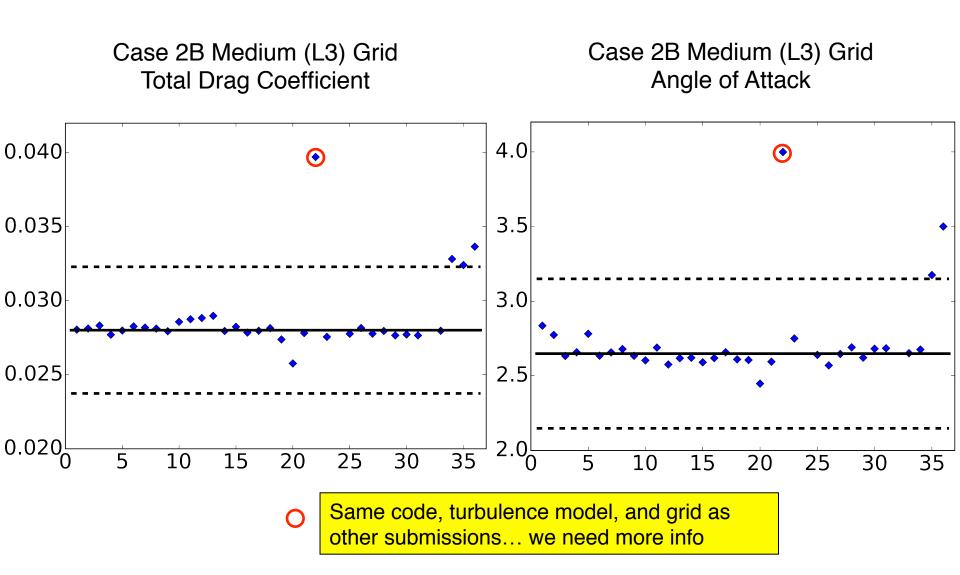


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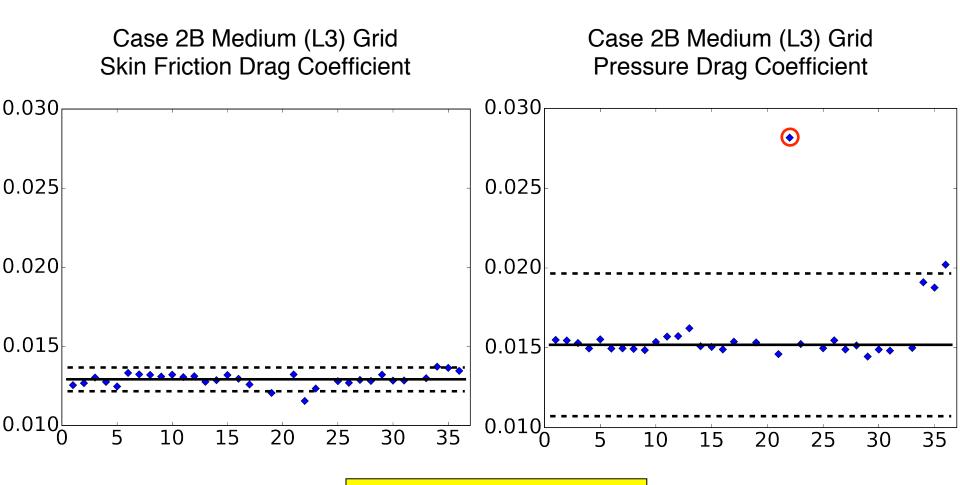








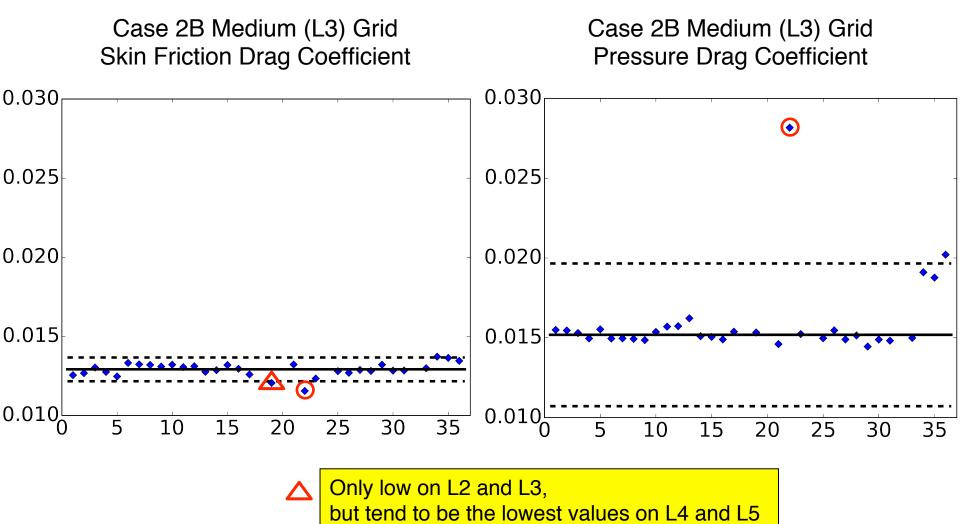




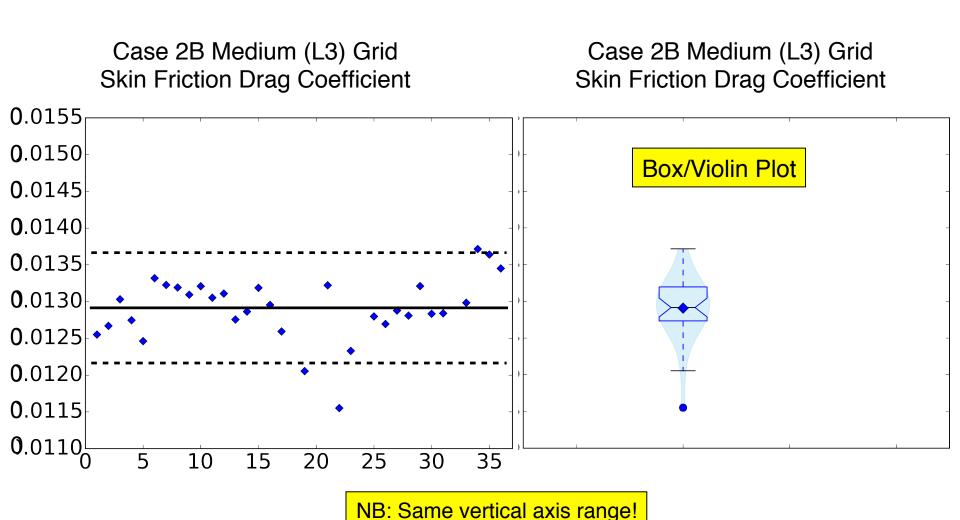
NB: Same vertical axis range!



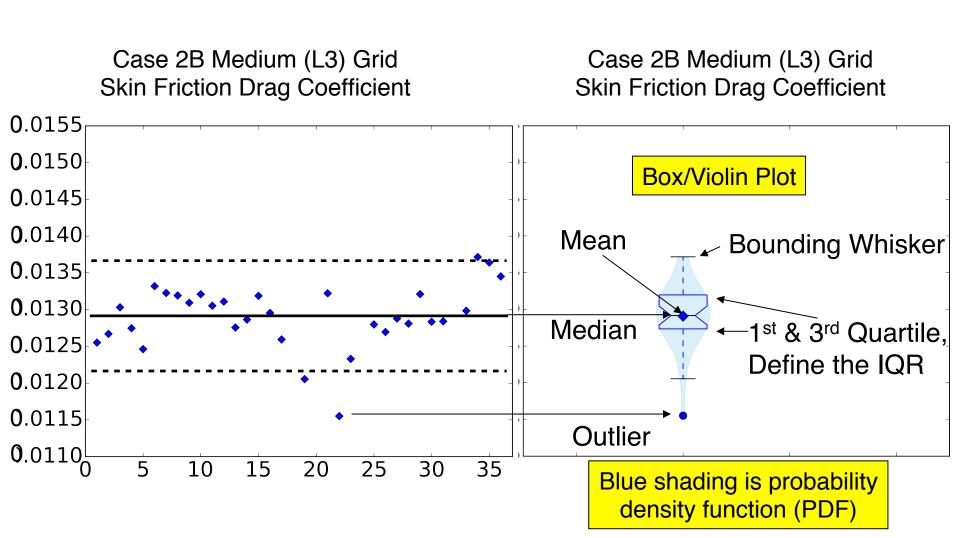






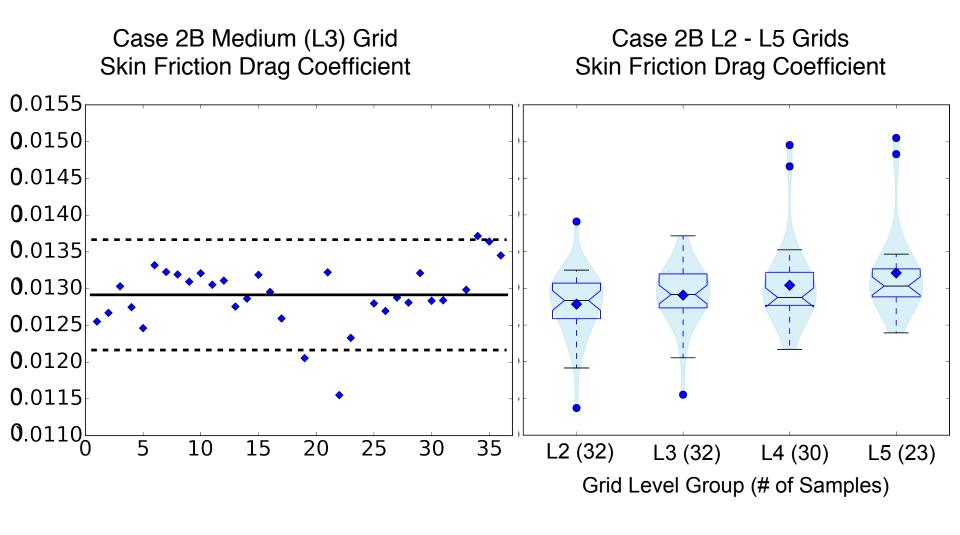








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Concluding Remarks

- Much less spread in C_{Dsf} compared to C_{Dpr}
- Double check signs on reported values
- Double check if reported grid levels match required (L2-L5) grid levels