

Q: Are takeoff profiles different between major airlines at CLT?

This observational study examines entire month of July 2018

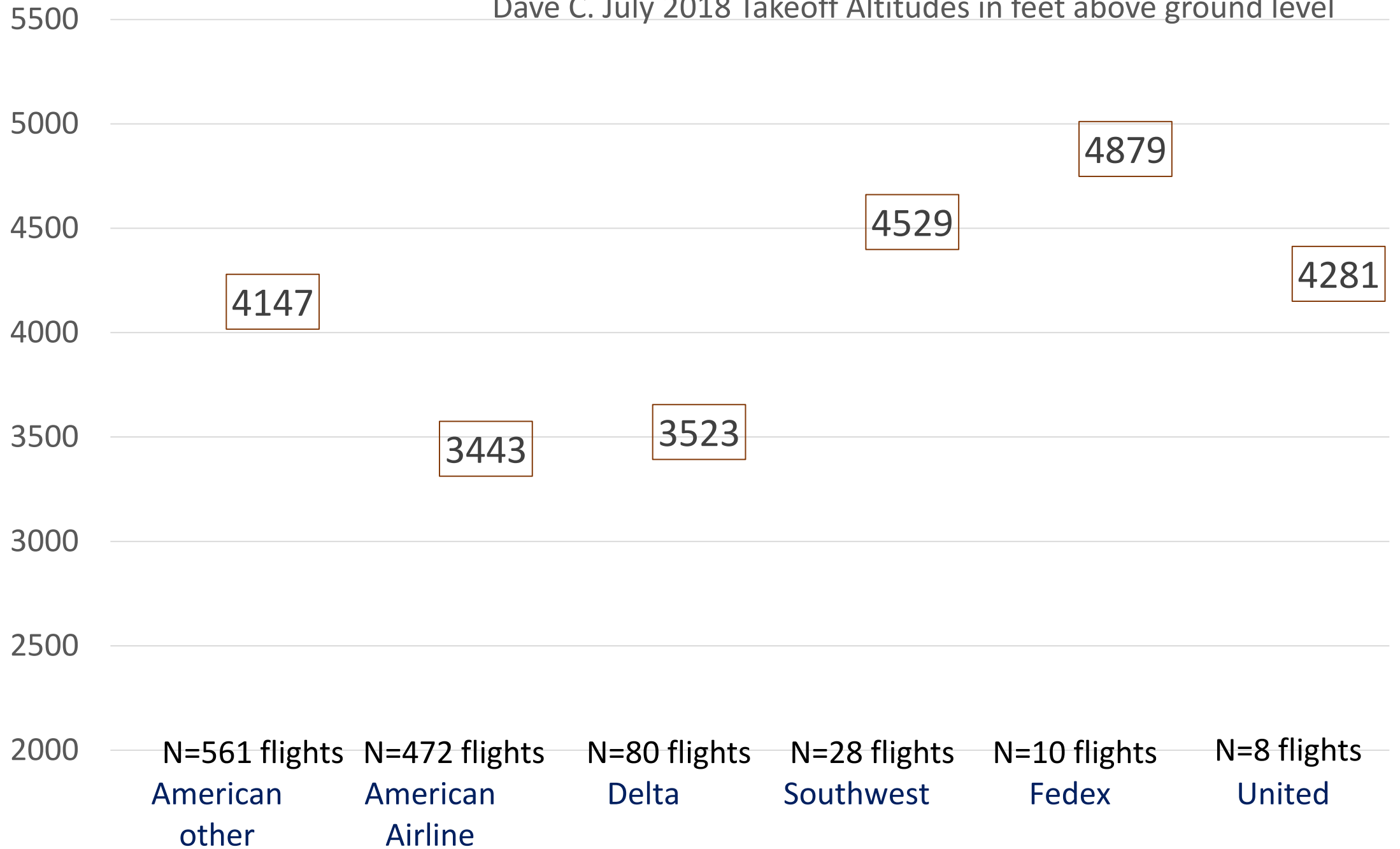
Total N= 1,172 flights

One mile gate above Dave C. (one of our community presenters in August)

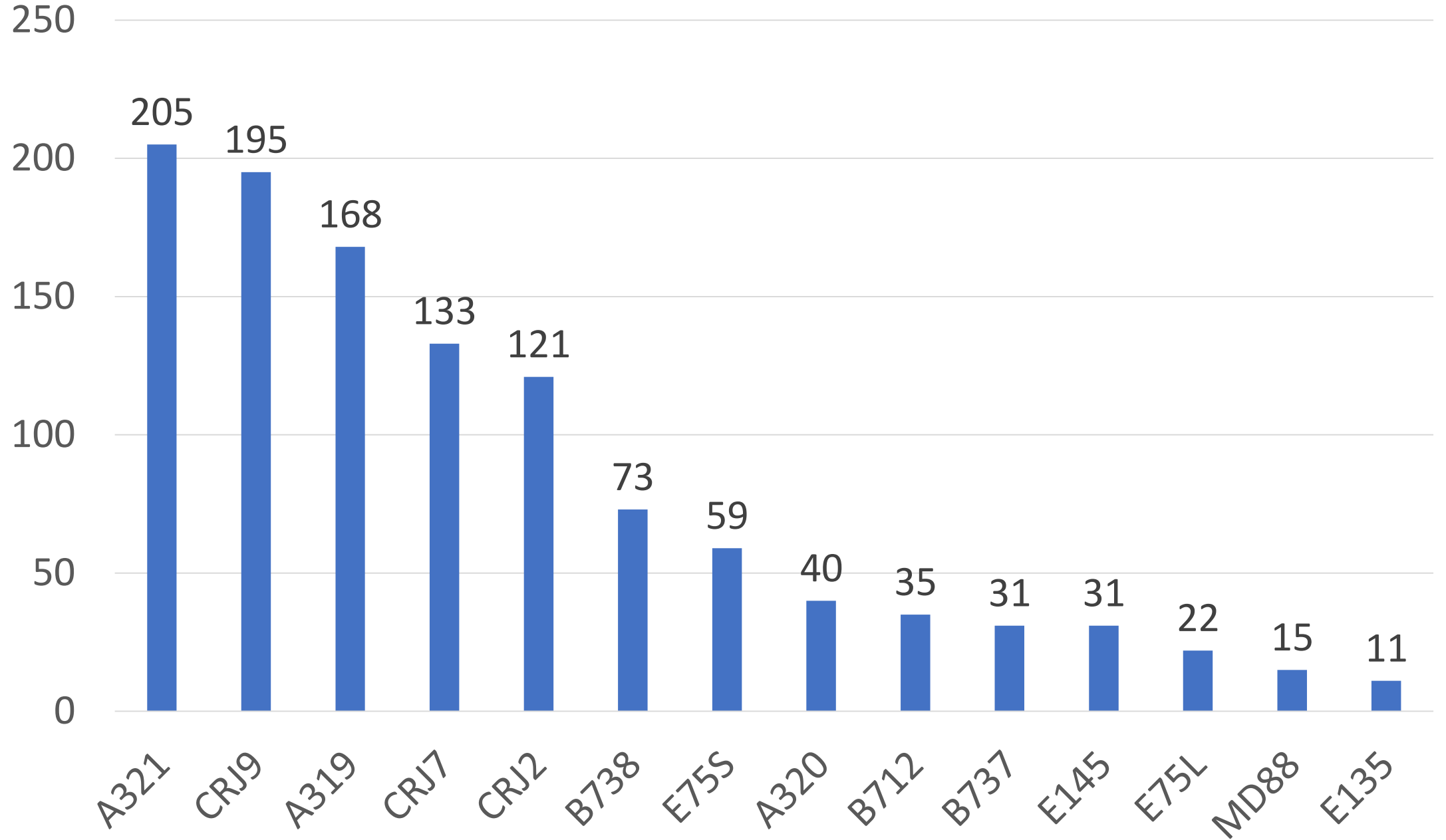
Conclusions

1. There were altitude differences between airlines.
2. Altitude differences were nested between aircraft models (Boeing, Airbus, Bombardier).
3. Airbus is flown at lowest altitudes among aircraft models, and most frequently.
4. Airbus has a distinct “whine” noise due to the wing design. Note: there is a “fix” for the “whine”.
5. Respite (time) between flights were much less than expected, and this observed “frequency” of noise events seems to corroborate community experience, despite what many have long believed.

Dave C. July 2018 Takeoff Altitudes in feet above ground level

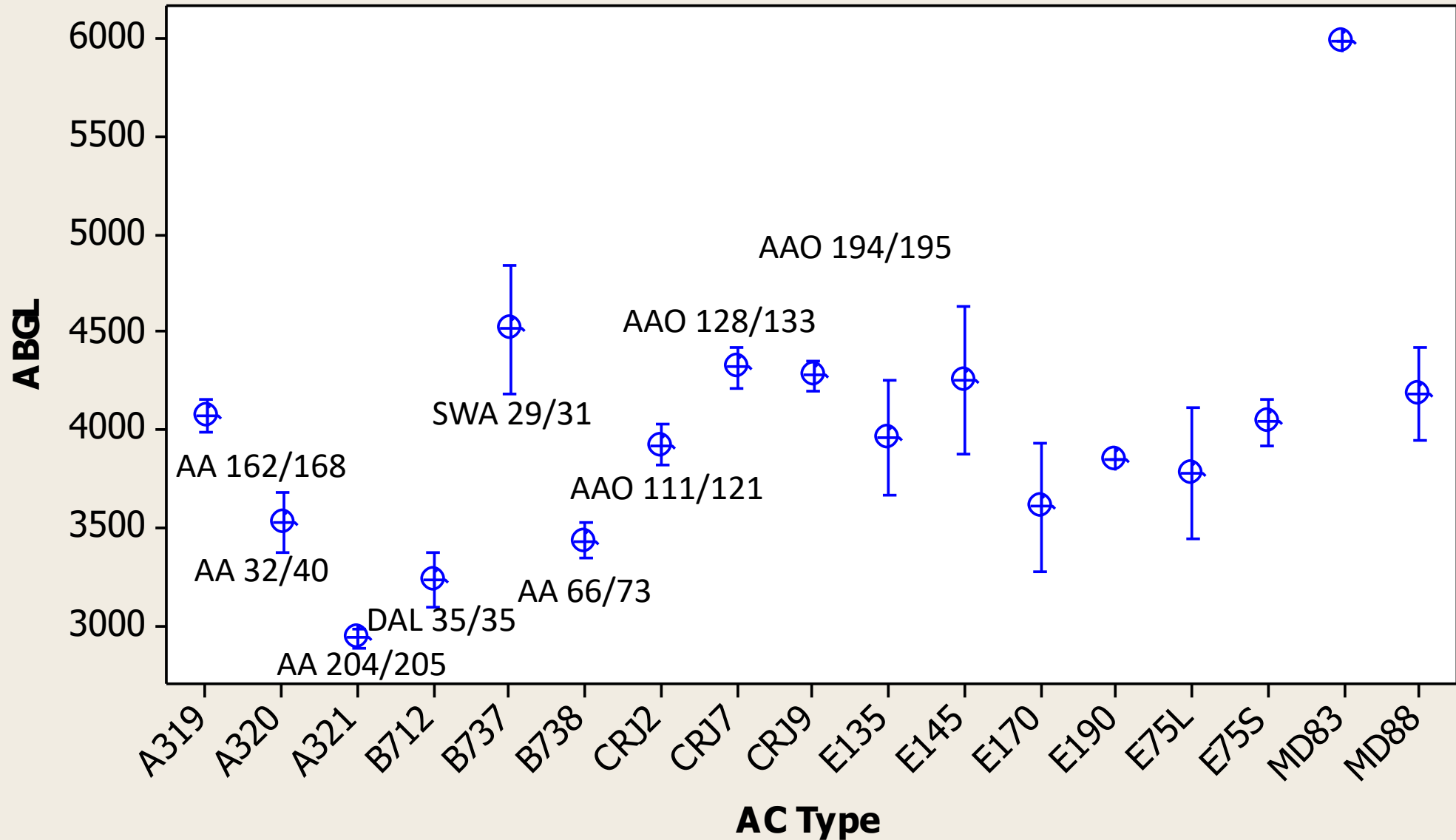


Aircraft Type Count (N)

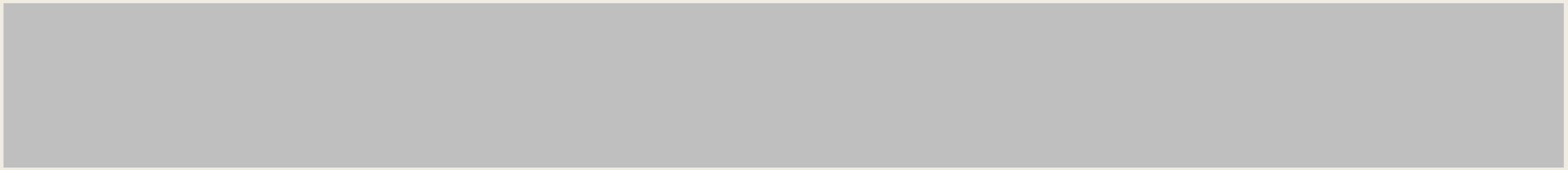
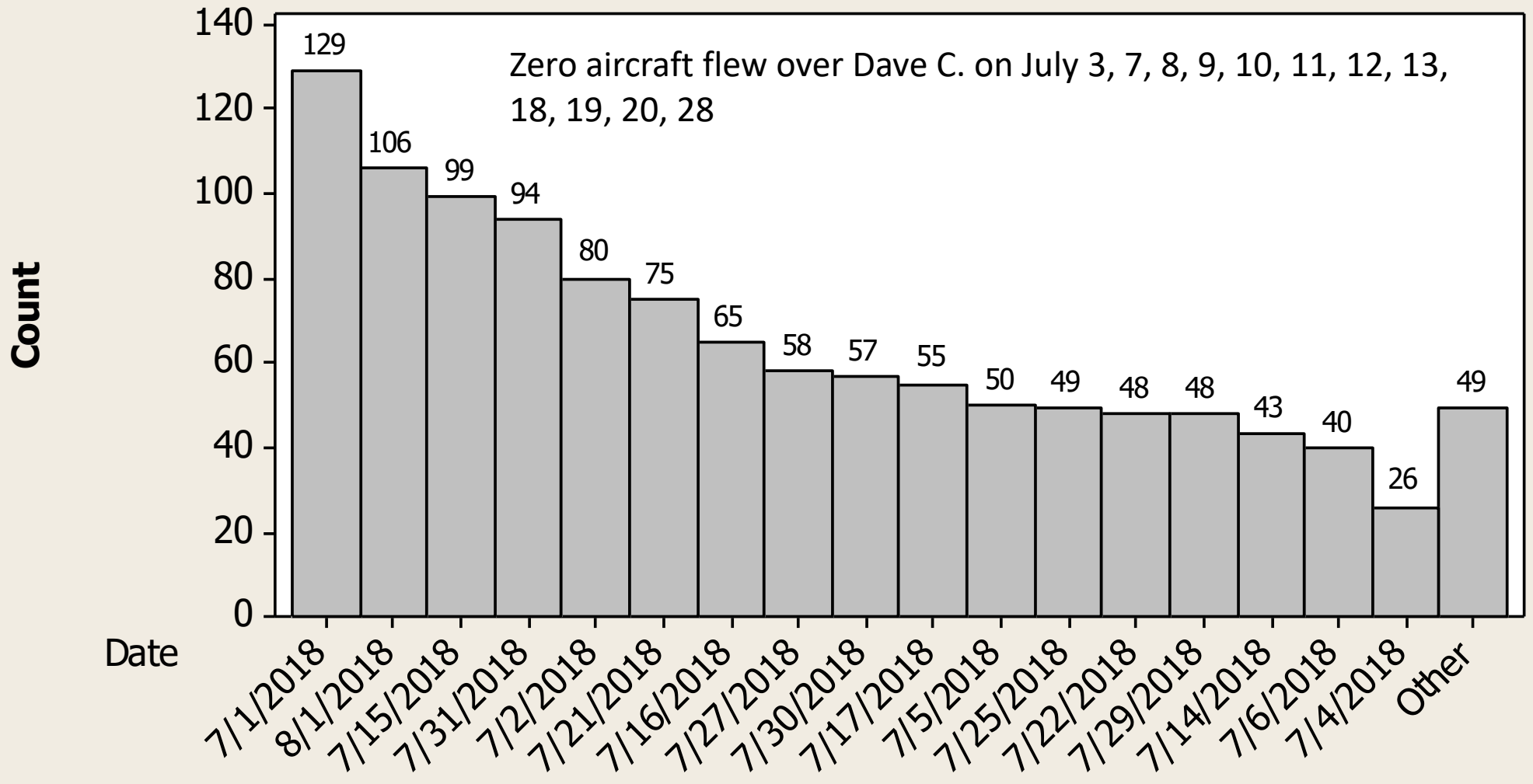


Interval Plot of ABGL vs AC Type

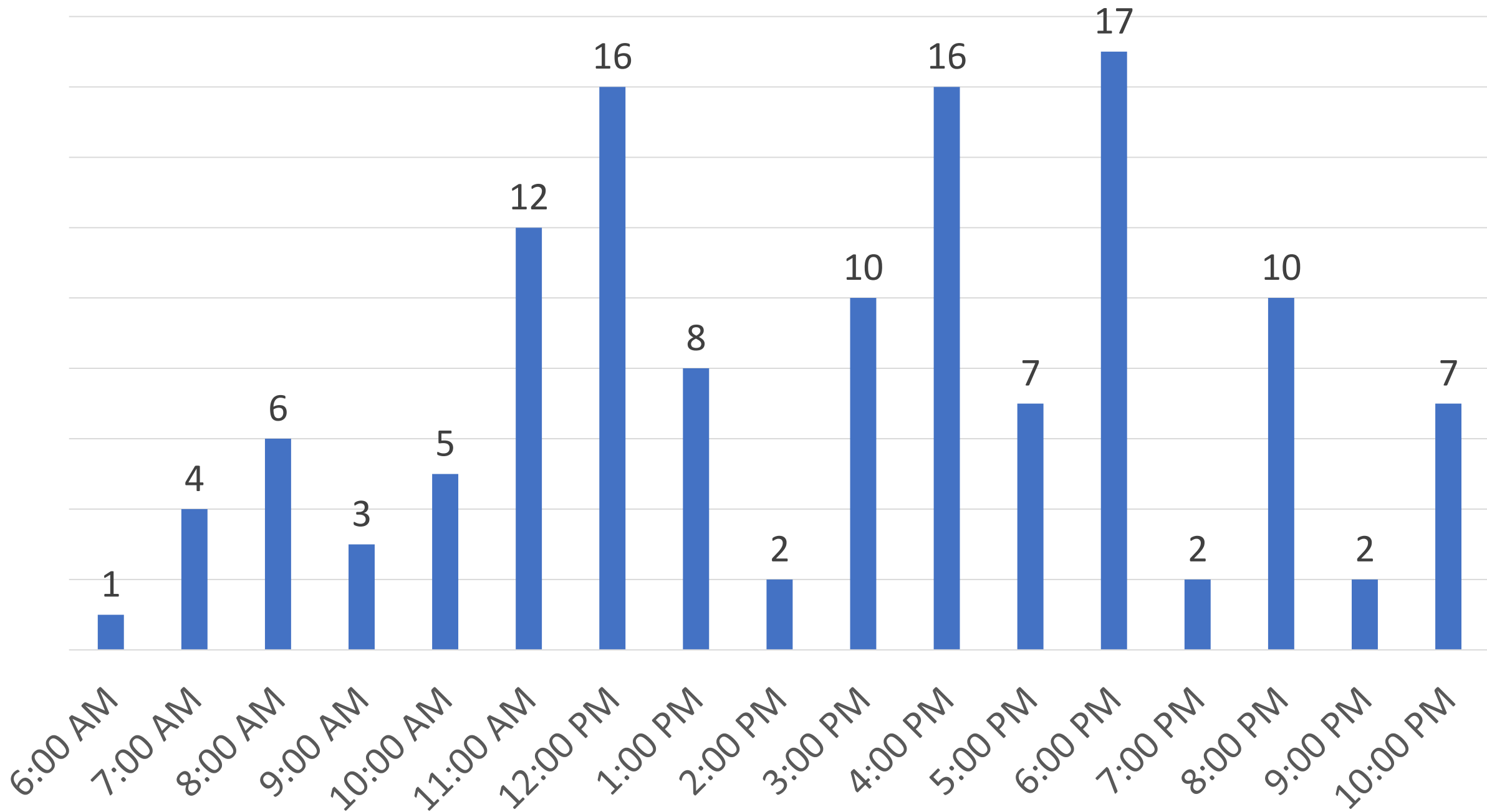
95% CI for the Mean



Aircraft by Date



July 1, 2018 aircraft count by hour of day



Time in seconds between flights at Dave C.

