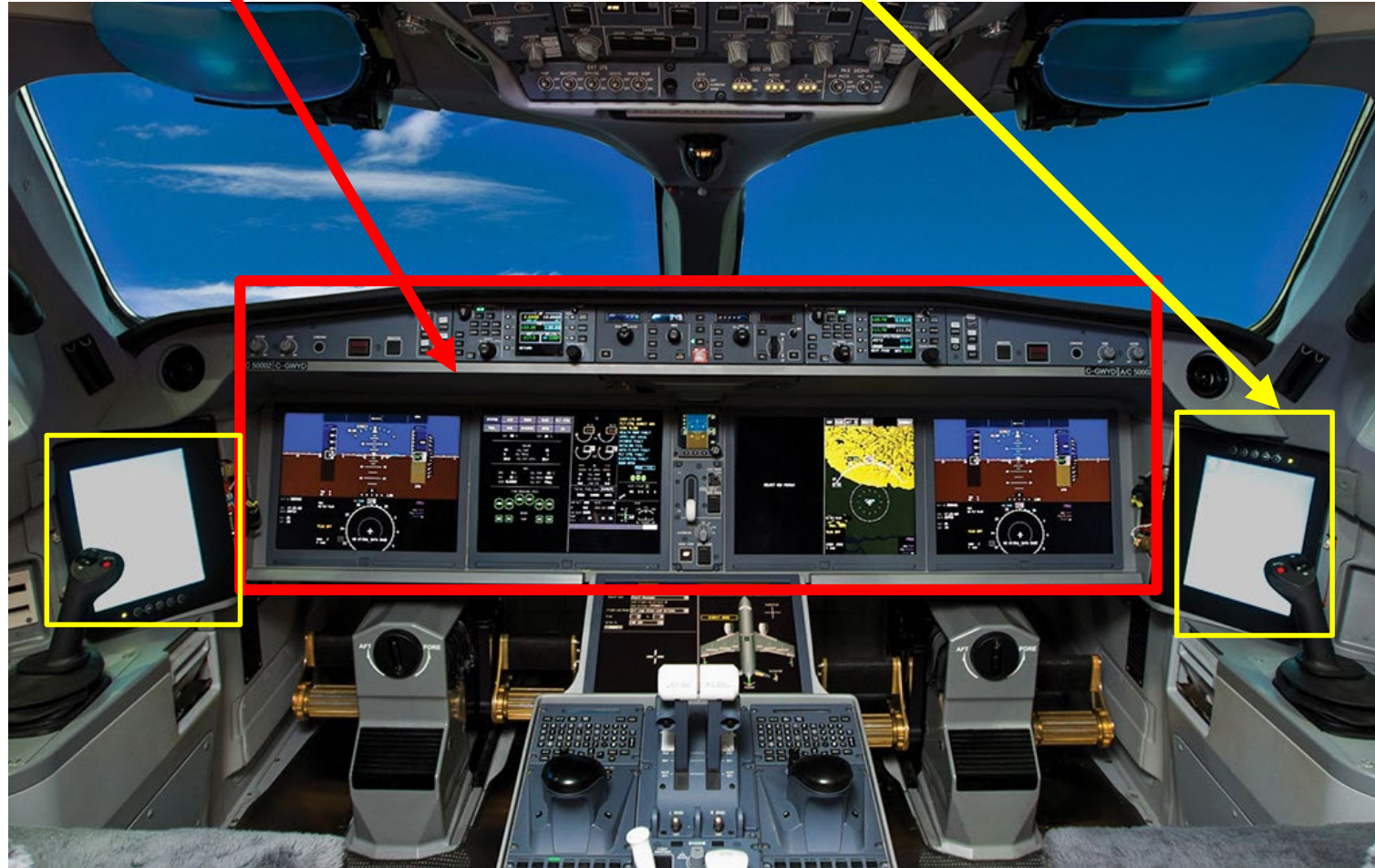


The Delta logo graphic is located on the left side of the slide. It features a dark blue vertical bar. Overlapping this bar is a stylized, three-dimensional representation of the Greek letter Delta (Δ). The graphic is composed of several triangular and quadrilateral facets in shades of red and maroon, creating a sense of depth and geometric complexity.

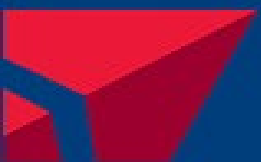
Weather Solutions for Safety and Efficiency

- Safety
- Passenger Experience
- Efficiency/Emissions
- Capacity = Delays
- Overall - IMPROVED WEATHER DATA DELIVERS BETTER SOLUTIONS FOR ALL DRIVERS versus Either/Or Model

Barriers to innovation: Aircraft mod vs EFB



Delta Air Lines Proprietary & Confidential



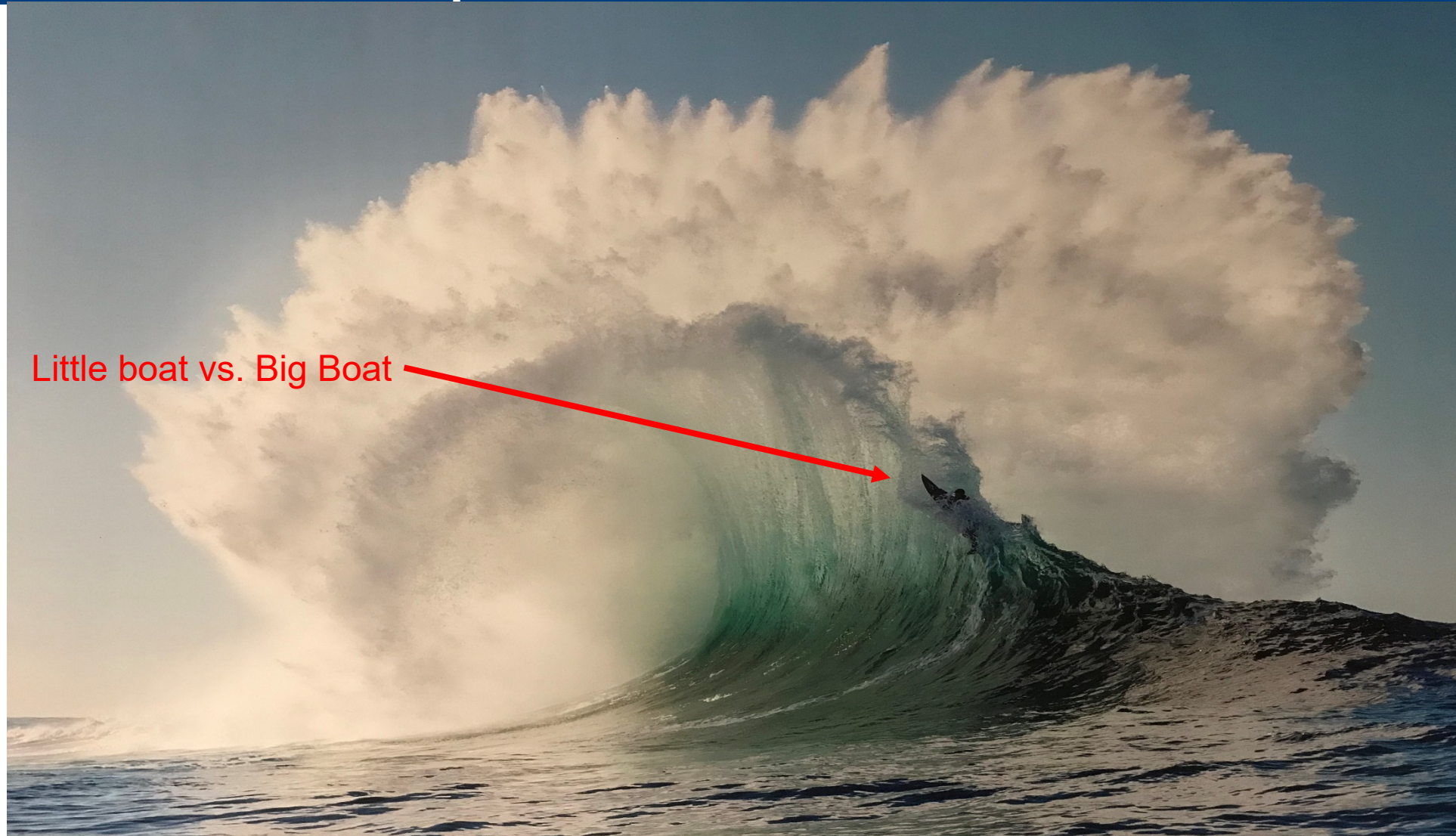
First Step - Turbulence Reports

Data Objectivity vs. Ambiguity

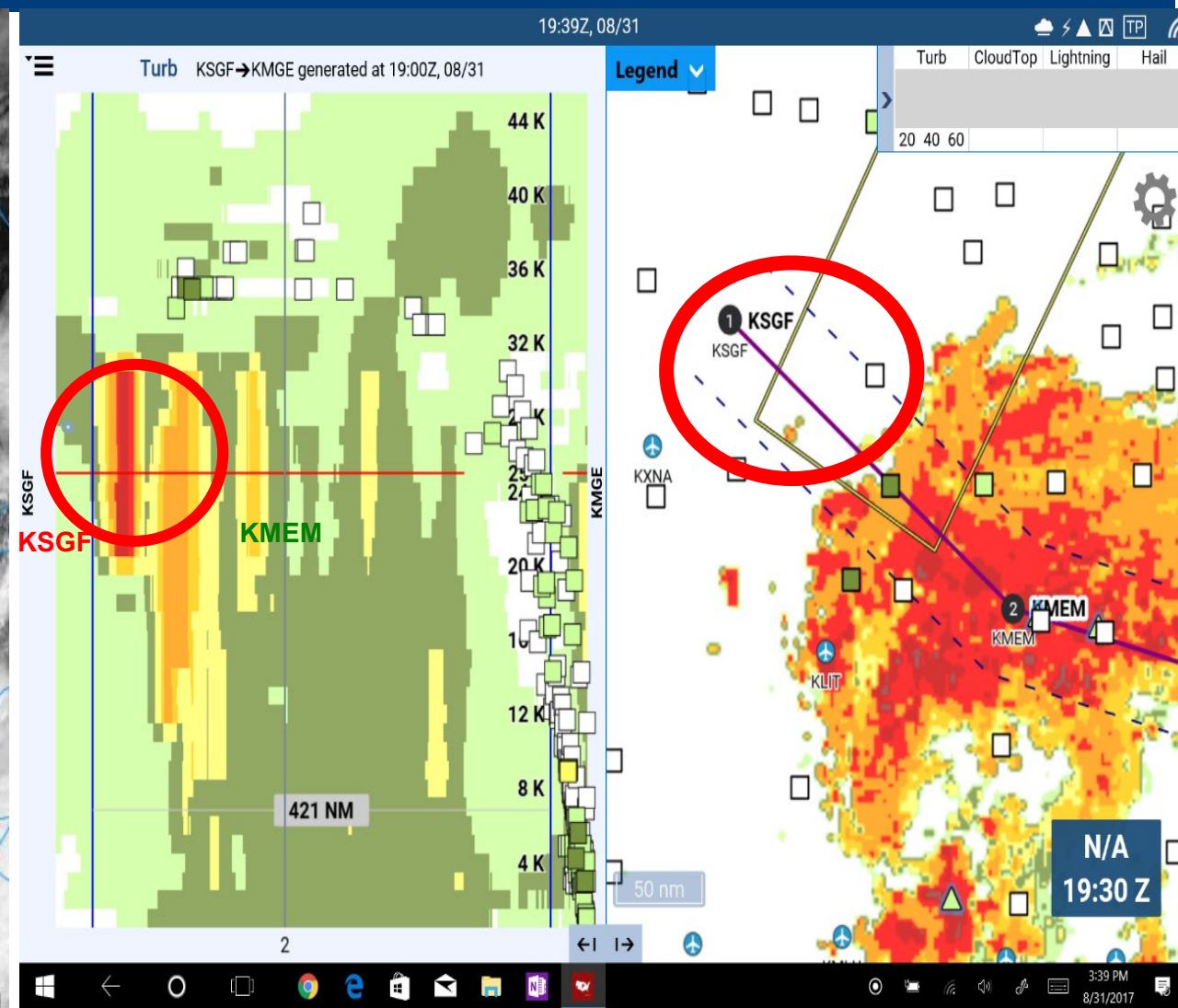
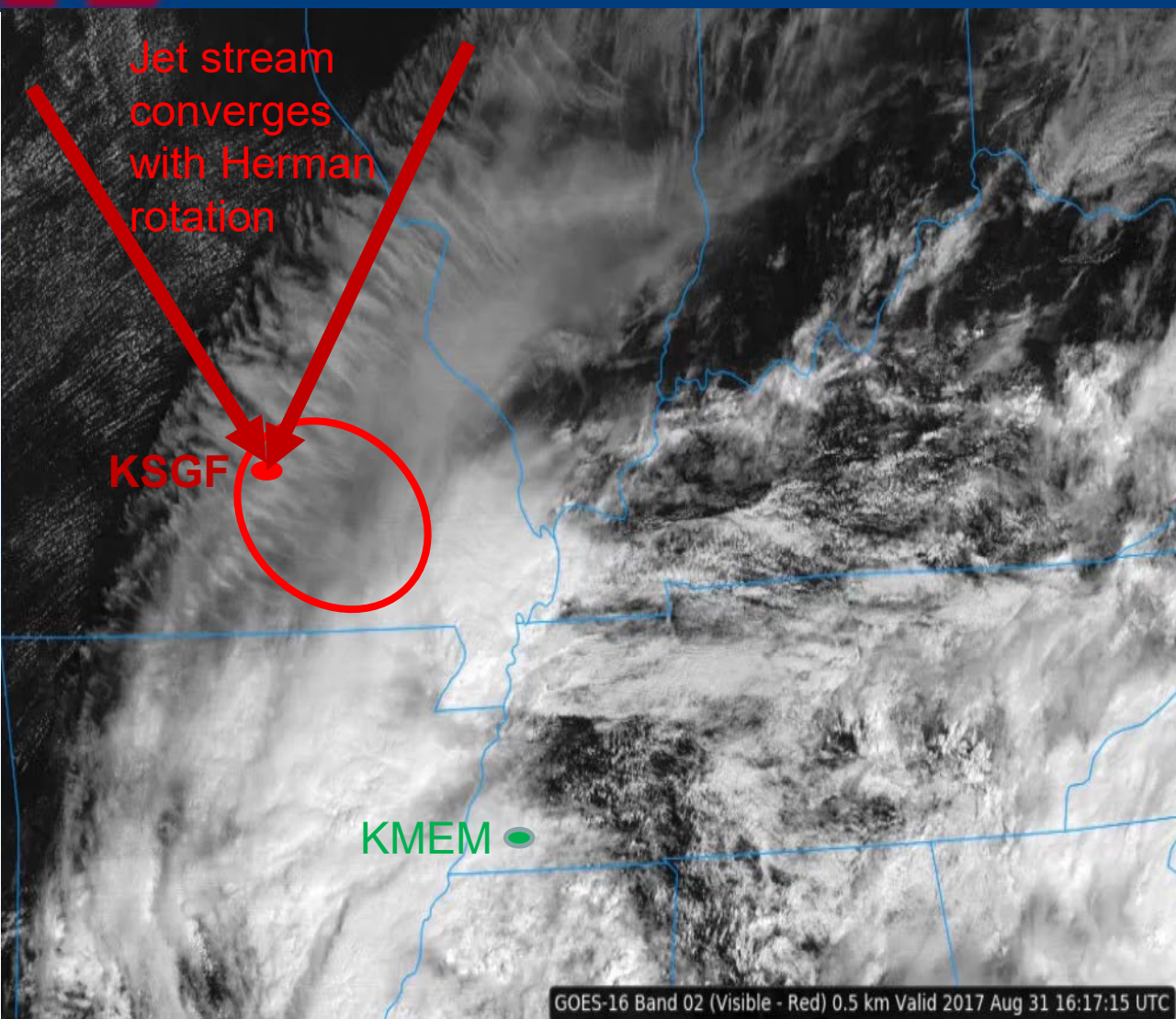
- Antiquated Processes highlighted
 - Wright Brothers PIREPS
 - ATC Chat Room
- Industry status for automated turbulence reports = Uncertainty
 - FAA NCAR Developed Eddy Dissipation Rate (EDR) - Open
 - Accelerometer Based Conversion to EDR – Proprietary
 - Other solutions – Manufactures, Independent vendors
- Ultimate drivers for Delta solution
 - Standardized, open platform for all to use and share

What is Eddy Dissipation Rate?

Atmospheric State similar to Sea State



EDR input for the underlying model - 15 minute Nowcast





Overall approach to weather delivery

- Type of information delivered
- Approach to delivering weather data
- Standardization across weather delivery systems
- A change in philosophy

Antiquated information - Teletype Weather (1928)

- FAUS42 KKKCI 171745 FA2W MIAC FA 171745 SYNOPSIS AND VFR CLDS/WX SYNOPSIS VALID UNTIL 181200 CLDS/WX VALID UNTIL 180600...OTLK VALID 180600-181200 NC SC GA FL AND CSTL WTRS E OF 85W . SEE AIRMET SIERRA FOR IFR CONDS AND MTN OBSCN. TS IMPLY SEV OR GTR TURB SEV ICE LLWS AND IFR CONDS. NON MSL HGTS DENOTED BY AGL OR CIG. . SYNOPSIS...CDFNT NRN ME. CDFNT SC CSTL WTRS WWD TO SRN GA. 06Z CDFNT GA CSTL WTRS TO EXTRM SWRN GA. 12Z CDFNT NERN ME-EXTRM NWRN PA. CDFNT NRN FL CSTL WTRS TO FL PNHDL CSTL WTRS.
- What is “PY”?

Everything you ever wanted to know...



10 Different Apps
Is this the Answer?

No standardization - different colors for the same information

