BECOMING DATA: The Four Phases of Transforming Raw Source Into NavData®

Jeppesen employees—some 30% of our workforce—work in charting and navigation. NEARLY 1,000 analysts use coded data to create NavData® and charts in multiple formats—ARINC-424, paper charts, etc.—to be used in flight management systems, for flight planning and in additional applications.

1. Raw source is compared manually by an analyst as well as by a computer to discern differences from the previous piece of source.

2. Differences are highlighted and source is sent to another group within Global Navigation Services for coding into the master database.

3. If the source contains accurate geo-referencing data, the chart is then geo-referenced for displaying ownship (i.e., your aircraft symbol) on electronic chart viewing displays.

4. An analyst builds a new chart by hand, with the aid of a computer; a routine approach typically takes about 5-8 hours to create.

If source contains entirely new information, like a new approach or new procedure, we “initiate the chart.”

Our process ensures fidelity to the highest standard of quality and accuracy. It’s what sets us apart, and why Jeppesen NavData is trusted by four times more customers than the next-leading aeronautical data solution.

Every 28-day Aeronautical Information Regulation And Control (AIRAC) cycle, Jeppesen receives up to 47,000 pieces of raw aeronautical information—or source—from 246 providers in 195 nations. Here’s how we turn source into Jeppesen NavData® used by pilots around the world.

PHASE 1: INGEST

Take in raw source aeronautical information and, sending it where it needs to go.

PHASE 2: CODING

Source is coded (i.e., entered) and becomes an object in the Jeppesen Aviation Database. At least two analysts separately code and verify every piece of source.

PHASE 3: INITIATION

If source contains accurate geo-referencing data, the chart is then geo-referenced for displaying ownship (i.e., your aircraft symbol) on electronic chart viewing displays.

PHASE 4: COMPLETED CHART

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