

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

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



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



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

47,000

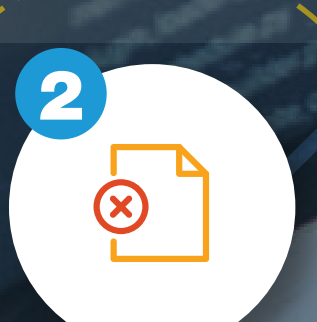
pieces of source every 28 days

PHASE 2: CODING

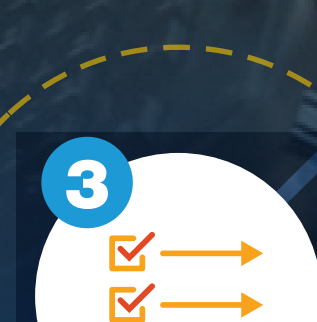


Source is coded (i.e., entered) and becomes an object in the Jeppesen Aviation Database

At least two analysts separately code and verify every piece of source



Source anomalies—about 1,500 every year—are sent back to the source provider



Input from source providers is re-evaluated and, pending compliance to quality criteria, subsequent coded data is published

PHASE 3: INITIATION



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



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 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

PHASE 4: COMPLETED CHART



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

NEARLY 1,000

Jeppesen employees—some 30% of our workforce—work in charting and navigation