



Weather & Climate Data In Action

Air travel in the U.S. is one of the safest ways to get around. NCEI's Next Generation Radar Data (NEXRAD) is helping to keep it that way

Each year aviation in the U.S. contributes

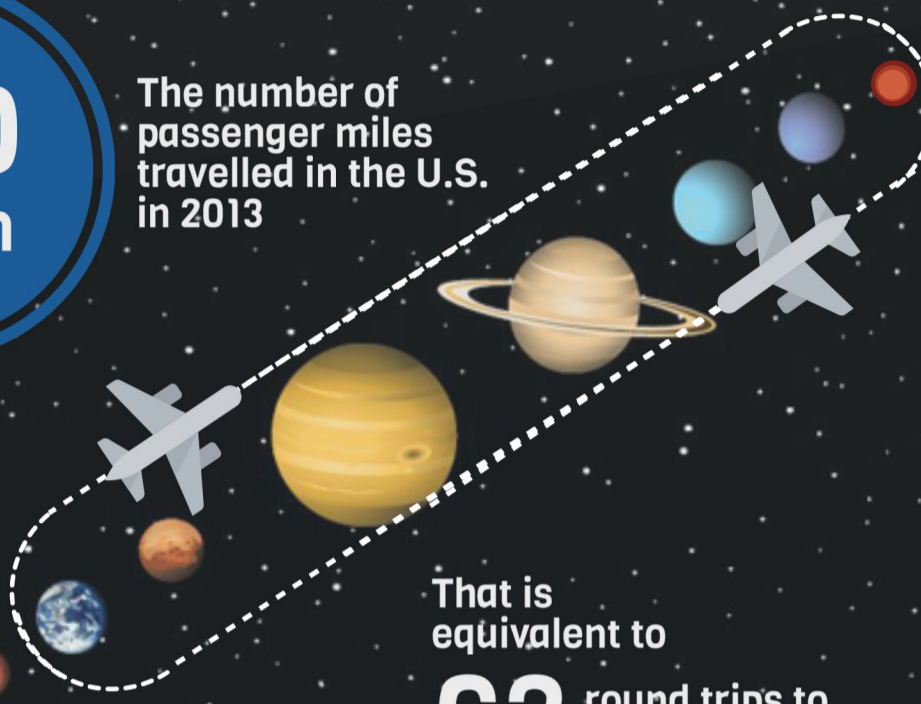
\$1.5 trillion & provides **11 million jobs** to the U.S. economy

U.S. airlines carried **16 million** tons of freight in 2015. That's about the same weight as

68,000 Jumbo Jets
■ 1=1000

590 billion

The number of passenger miles travelled in the U.S. in 2013



That is equivalent to **63** round trips to Pluto

NCEI's NEXRAD provides airlines and the National Transportation Safety Board (NTSB) with weather information to retrospectively analyze aviation incidents / accidents



An aviation incident / accident occurs



NTSB and airlines access NCEI's NEXRAD



NEXRAD helps recreate weather at the time of the incident / accident



Lessons learned inform airline safety procedures and policies

NCEI's NEXRAD refines aviation procedures to save lives and billions of dollars in avoided accidents

313

the average number of fatal accidents per year between 1995 - 2014

\$1.6 Billion

The average annual accident costs attributed to general aviation in the U.S.



160

NEXRAD stations across the U.S.

400

NCEI contains **Terabytes** of radar data from 1991 - present

This is equivalent to **27 Million** copies of the complete works of William Shakespeare

+75%

Since 1967 the NTSB has investigated 140,000 aviation accidents
The NTSB uses NCEI's NEXRAD in over three quarters of aviation investigations



■ = 1 million