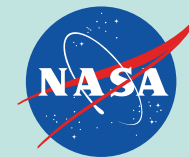


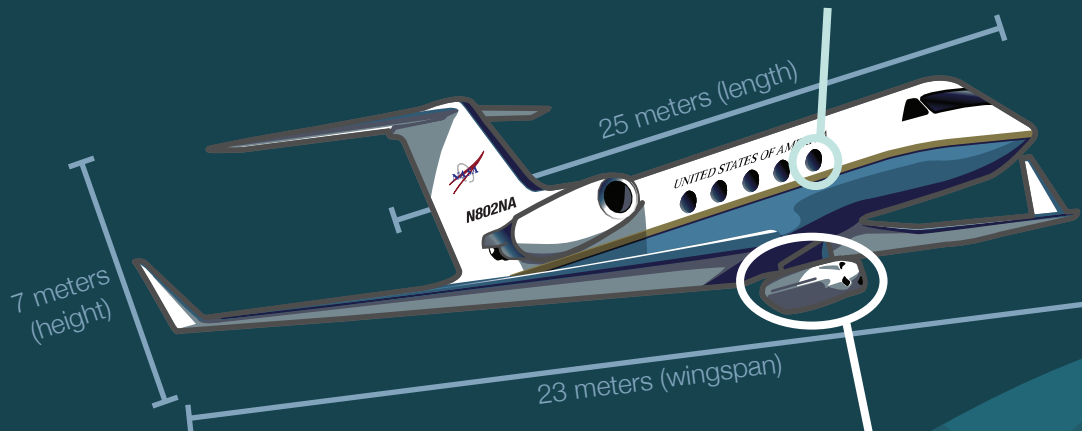
NASA Armstrong 802 C-20A

National Aeronautics and
Space Administration



Obtained in 2002, the C-20A is a Gulfstream-III business jet that has been extensively modified to be an environmental science research aircraft. To learn more about NASA aircraft, visit airbornescience.nasa.gov.

The custom **Data Collection and Processing System (DCAPS)** was developed to send aircraft flight data (altitude, flight path, etc) to the PPA and experimenter's equipment via ethernet.



Takeoff weight: 31,600 kg (21 cars)
Empty plane weight: 17,200 kg (11 cars)
Payload capacity: 1,100 kg (1 car)



Structurally modified to incorporate a rack on the bottom of the fuselage to install an **external pod**.

Location

NASA Armstrong Flight Research Center operates the C-20A at Edwards Air Force Base in CA.

The C-20A flies above commercial airlines
Standard altitude: 12,500 m
Max altitude: 13,700 m

Mission range: 6 hours / 6,300 km
Top speed: 925 km/hr

Crew



2 pilots



Can include: radar operator,
PPA operator, crew chief,
mechanic, scientist, media

Flying in the tube



Armstrong engineers developed the **Precision Platform Autopilot (PPA)**, which enables the aircraft to fly repeat flight tracks in a virtual 10m tube.