Hunting hurricanes

Researchers use various aircraft to fly in and around hurricanes, including a WP-3D Orion propeller plane and a \$43 million Gulfstream-IV jet. This graphic shows how the WP-3D Orion studies the storms.

The plane

The WP-3D Orion

Length: 111 feet, 2 inches Wing span: 99 feet, 7 inches Height: 33 feet, 8 inches

Maximum altitude: 32,000 feet

Range: About 10 hours

Low altitude: 2,560 miles (9.5 hours)

High altitude: 3,797 miles (11.5 hours)

The crew

Two pilots, flight engineer, navigator, flight director (meteorologist), 2 or 3 engineering/electronic specialists, radio/avionics specialist and up to 12 scientists.

Flight director

Monitors all science stations during mission.

Navigation station

Navigator plots the aircraft's flight path.

Cloud physics station

Investigates all aspects of cloud systems with an emphasis on determining the physical processes leading to severe summer and winter storms.

Radar monitor station

Weather avoidance and Doppler radar data is examined.

Data station

Oropsonde station

Data collecting probes that are dropped into the storm and broadcast information back to the aircraft,

- Aft observer station
- Visiting scientist station
- O Data station





Graphic: Copyright 2004, The Palm Beach Post

Photographs from the National Oceanic and Atmospheric Administration (NOAA) Hurricane Research Division.



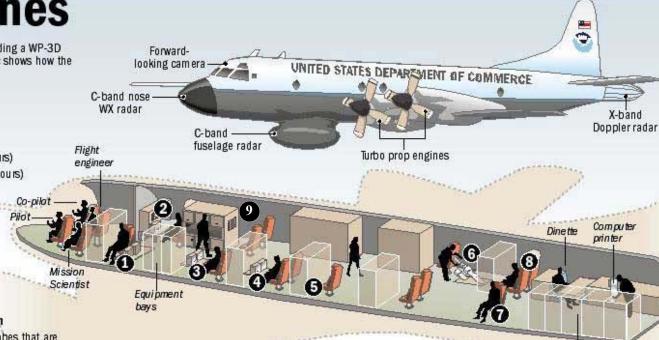












The Flight of the Hurricane Hunter

