NG-21 Mission

Delivering Cargo to the International Space Station



Mission Parameters

Launch Vehicle: Falcon 9 Rocket

Cargo Spacecraft: Cygnus

Launch Site: Space Launch Complex 40 (SLC-40) Cape Canaveral Space Force Station Ascent Cargo Mass: Up to 3,750 kg (8,267 lbs.)

Descent Cargo Mass: Up to 3,850 kg (8,487 lbs.)

Initial Orbit Altitude: 245 km x 245 km

Inclination: 51.64°

Transit to Station: Two Days

Duration at Station: Up to 180 Days Berthed





Mission Description

For the NG-21 mission, the Cygnus spacecraft will deliver more than 3,700 kg. (8,200 lb.) of cargo to the International Space Station. Cygnus is comprised of two primary components, the Pressurized Cargo Module and the Service Module. In keeping with company tradition, each spacecraft is named after an important figure in the aerospace industry. Northrop Grumman is honored to name the NG-21 Cygnus spacecraft after NASA astronaut Francis R. "Dick" Scobee, an accomplished astronaut and pilot who lost his life in 1986 when he commanded the Challenger. The S.S. Francis R. "Dick" Scobee will be launched into orbit using a Falcon 9 rocket from Space Launch Complex 40 at Cape Canaveral Space Force Station in Florida. Northrop Grumman will once again load critical, time-sensitive cargo into Cygnus 24 hours before the scheduled launch. Upon arrival at the International Space Station, the cargo will be unloaded from Cygnus. First conducted on the NG-17 mission, Cygnus offers the capability to perform routine reboost services as needed while berthed to the station. Once its mission has been completed, Cygnus will perform a safe, destructive reentry into Earth's atmosphere.



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