





Mission Parameters

Launch Vehicle: Antares 230+

Cargo Spacecraft: Cygnus

Launch Site: MARS Pad 0A, Wallops Island, Virginia

Ascent Cargo Mass: Up to 3,729 kg (8,200 lb.)

Descent Cargo Mass: Up to 3,729 kg (8,200 lb.)

Initial Orbit Altitude: 168 km x 313 km

Inclination: 51.64°

Transit to Station: Two Days

Duration at Station: Up to 100 Days Berthed Up to 30 days on orbit



Mission Description

For the NG-18 mission, the Cygnus spacecraft will deliver more than 3,700 kg. (8,200 lb.) of cargo to the 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-18 Cygnus

spacecraft after NASA astronaut Sally Ride, the first American woman to fly in space. The S.S. Sally Ride will be launched into orbit using an Antares 230+ rocket from Virginia Space's Mid-Atlantic Regional Spaceport (MARS) Pad 0A on Wallops Island, Virginia. 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. Beginning with 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 over the Pacific Ocean.



