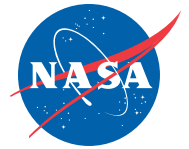




National Aeronautics and
Space Administration



NASA'S COMMERCIAL CREW PROGRAM MISSION OVERVIEW

NASA's SpaceX Crew-6



NASA and SpaceX are gearing up to launch a new crew on an American rocket and spacecraft to the International Space Station. NASA's SpaceX Crew-6 will launch NASA astronauts Stephen Bowen, mission commander, and Warren "Woody" Hoburg, pilot. UAE (United Arab Emirates) astronaut Sultan Alneyadi and Roscosmos cosmonaut, Andrey Fedyaev will join as mission specialists.

While aboard the microgravity laboratory, the astronauts will perform science investigations, technology demonstrations, and maintenance activities.

The international crew of four will fly aboard the SpaceX Dragon Endeavour spacecraft and will launch on a new Falcon 9 booster. The mission will lift off from Launch Complex 39A at NASA's Kennedy Space Center in Florida. The crew will spend several months aboard station before returning to Earth in the fall of 2023.

The flight is the sixth crew rotation mission with SpaceX to station, and the seventh flight of Dragon with people as part of NASA's Commercial Crew Program.



LAUNCH VEHICLE

SpaceX Falcon 9 Rocket

HEIGHT: 229.6 ft

DIAMETER: 12 ft

PROPELLENT: LOX (liquid oxygen) and rocket grade kerosene (RP-1)

PROPULSION: 9 SpaceX Merlin engines – 190,000 lbf each

LAUNCH LOCATION: Launch Complex 39A at NASA's Kennedy Space Center in Florida

Falcon 9 will launch Dragon from historic Launch Complex 39A. It will accelerate Dragon to an orbital velocity of 17,500 mph prior to spacecraft separation and rendezvous, and docking with the International Space Station. This will be the first mission for this Falcon 9 booster.



SPACECRAFT

SpaceX Dragon

HEIGHT: 26.7 ft

DIAMETER: 13 ft

VOLUME: 328 ft³

CREW CAPACITY: Up to seven

RETURN: Splashdown-based water return off the coast of Florida

The Crew-6 mission will fly aboard the Dragon Endeavour. The spacecraft previously flew Demo-2, Crew-2, and Axiom Mission 1 flights to and from the space station. As part of the refurbishment process, teams installed new components, including the heat shield, nosecone, trunk and all forward bulkhead and service section Draco engines. These critical hardware components help the spacecraft withstand reentry heat, support docking and cargo space, and provide steering and thrust to the spacecraft. Previously flown components include pod panels from a previous human spaceflight mission.

MEET CREW-6

Stephen Bowen
COMMANDER

Hometown:
Cohasset, Massachusetts

Previous Missions:
STS-126, STS-132
and STS-133



Warren “Woody” Hoburg
PILOT

Hometown:
Pittsburgh, Pennsylvania

Previous Missions:
First Mission



Sultan Alneyadi
MISSION SPECIALIST

Hometown:
Um Ghafa, Abu Dhabi

Previous Missions:
First Mission



Andrey Fedyaev
MISSION SPECIALIST

Hometown:
Serov, Sverdlovsk

Previous Missions:
First Mission



BEHIND THE DESIGN



Sailing across the Crew-6 patch, the ship represents both our destination, the International Space Station, and the vessels that countless explorers have steered into the unknown. The station anchors us on the dawn of missions to the Moon and Mars. The ship's sail, a symbol of the 2012 cosmonaut class, has relative radii matching those of the Earth, the Moon, and Mars. The Draco constellation represents NASA's Commercial Crew Program and shares a name with the thrusters that maneuver our Dragon spacecraft. The ship's Dragon figurehead looks to the future as we also look back at Earth, grateful for the tireless hours of all who support our mission.