

UPCOMING LAUNCH

CRS-30 MISSION

WATCH

SpaceX is targeting Thursday, March 21 for Falcon 9's launch of Dragon's 30th Commercial Resupply Services (CRS-30) mission to the International Space Station from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. Liftoff is targeted for 4:55 p.m. ET with a backup launch opportunity available on Friday, March 22 at 4:29 p.m. ET if needed.

A live webcast of this mission will begin on **X @SpaceX** about 20 minutes prior to liftoff. **Watch live.**

This is the sixth flight of the first stage booster supporting this mission, which previously launched Ax-2, ESA Euclid, Ax-3, and two Starlink missions. Following stage separation, Falcon 9's first stage will land on Landing Zone 1 (LZ-1) at Cape Canaveral Space Force Station.

CRS-30 is the fourth flight for this Dragon spacecraft, which previously flew CRS-22, CRS-24, and CRS-27 to the space station. After an approximate 38-hour flight, Dragon will autonomously dock with space station Saturday, March 23 at approximately 7:30 a.m. ET.

COUNTDOWN

HR/MIN/SEC	EVENT
00:38:00	SpaceX Launch Director verifies go for propellant load
00:35:00	RP-1 (rocket grade kerosene) loading begins
00:35:00	1st stage LOX (liquid oxygen) loading begins
00:16:00	2nd stage LOX loading begins
00:07:00	Falcon 9 begins pre-launch engine chill
00:05:00	Dragon transitions to internal power
00:01:00	Command flight computer to begin final prelaunch checks
00:01:00	Propellant tanks pressurize for flight
00:00:45	SpaceX Launch Director verifies go for launch
00:00:03	Engine controller commands engine ignition sequence to start
00:00:00	Falcon 9 liftoff

LAUNCH, LANDING, AND DEPLOYMENT

All Times Approximate

HR/MIN/SEC	EVENT
00:00:58	Max Q (moment of peak mechanical stress on the rocket)
00:02:19	1st stage main engine cutoff (MECO)
00:02:22	1st and 2nd stages separate
00:02:29	2nd stage engine starts
00:02:32	Boostback Burn Starts
00:03:24	Boostback Burn Ends
00:06:20	1st stage entry burn starts
00:06:40	1st stage entry burn ends
00:07:26	1st stage landing burn starts
00:07:50	1st stage landing
00:08:35	2nd stage engine cutoff (SECO-1)
00:11:48	Dragon separates from 2nd stage
00:12:40	Dragon nosecone open sequence begins

MISSION

TO THE SPACE STATION

On its flight to the International Space Station, Dragon executes a series of burns that position the vehicle progressively closer to the station before it performs final docking maneuvers, followed by pressurization of the vestibule, hatch opening, and crew ingress.

The diagram illustrates the mission profile from liftoff to docking at the International Space Station (ISS). It features a circular Earth with the rocket's path shown as a series of concentric orbits. The path is divided into six numbered steps: 01. LIFTOFF, 02. ORBIT ACTIVATION, 03. PHASING BURNS, 04. APPROACH INITIATION, 05. PROXIMITY OPERATION, and 06. DOCKING & PRESSURIZATION. A detailed inset shows the rocket approaching the ISS, with the 'KEEP OUT SPHERE' boundary and the 'FINAL COELLIPTIC' burn indicated. The ISS is shown with its solar panels and the Dragon spacecraft is shown in the process of docking.

01. LIFTOFF02. ORBIT ACTIVATION03. PHASING BURNS04. APPROACH INITIATION05. PROXIMITY OPERATION06. DOCKING & PRESSURIZATION