

AMOS-17 MISSION



MISSION OVERVIEW

SpaceX is targeting Tuesday, August 6 for launch of AMOS-17 from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station, Florida. The launch window opens at 6:53 p.m. EDT, or 22:53 UTC, and closes at 8:21 p.m. EDT, or 00:21 UTC on August 7. The satellite will be deployed approximately 31 minutes after liftoff.

Falcon 9's first stage for the AMOS-17 mission previously supported the Telstar-19 VANTAGE mission in July 2018 and the Es'hail-2 mission in November 2018.

WEBCAST

Launch webcast will go live about 15 minutes before liftoff at [spacex.com/webcast](https://www.spacex.com/webcast)

PHOTOS

High-resolution photos will be posted at [flickr.com/spacex](https://www.flickr.com/photos/spacex/)

PAYLOAD

The AMOS-17 satellite was designed by Spacecom using Boeing's advanced digital payload technology to provide increased connectivity to Africa. With its extensive abilities, flexibility, and reliability, AMOS-17 is poised to support growth in a variety of broadcast, broadband, mobility, and data services throughout the African continent. It will be deployed to the 17E orbital position, right over central Africa, to optimize service in the region.

AMOS-17 will operate in the C, Ku and Ka bands with a digital channelizer to provide fixed high throughput (HTS) C-band coverage to Africa, steerable HTS Ka-band coverage to anywhere from China to Brazil, and extensive Ku-band coverage throughout Africa with additional coverage in Europe, the Middle East, China, and India.

The satellite's digital processing capabilities provide connectivity between all of AMOS-17's beams in all available bands in any combination. These capabilities also support suppression of interference, flexible capacity allocation, and other digital processing features for improved service. Additionally, all command and control channels, as well as telemetry, are encrypted for maximum security.

AMOS-17 is planned to be in operation for a minimum of 20 years, enabling long-lasting and stable service.



LAUNCH FACILITY

Falcon 9 will launch the AMOS-17 mission from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station in Florida. Learn more about SpaceX's launch facilities at [spacex.com/about](https://www.spacex.com/about)

SPACE X CONTACT

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MISSION TIMELINE (all times approximate)

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 underway
- 00:35:00	1st stage LOX (liquid oxygen) loading underway
- 00:16:00	2nd stage LOX loading underway
- 00:07:00	Falcon 9 begins engine chill prior to launch
- 00:01:00	Command flight computer to begin final prelaunch checks
- 00:01:00	Propellant tank pressurization to flight pressure begins
- 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 SATELLITE DEPLOYMENT

Hr/Min/Sec	Event
00:01:04	Max Q (moment of peak mechanical stress on the rocket)
00:02:45	1st stage main engine cutoff (MECO)
00:02:48	1st and 2nd stages separate
00:02:56	2nd stage engine starts
00:03:36	Fairing deployment
00:08:09	2nd stage engine cutoff (SECO-1)
00:26:24	2nd stage engine restarts
00:27:24	2nd stage engine cutoff (SECO-2)
00:31:55	AMOS-17 deployment