

# SAOCOM 1B MISSION

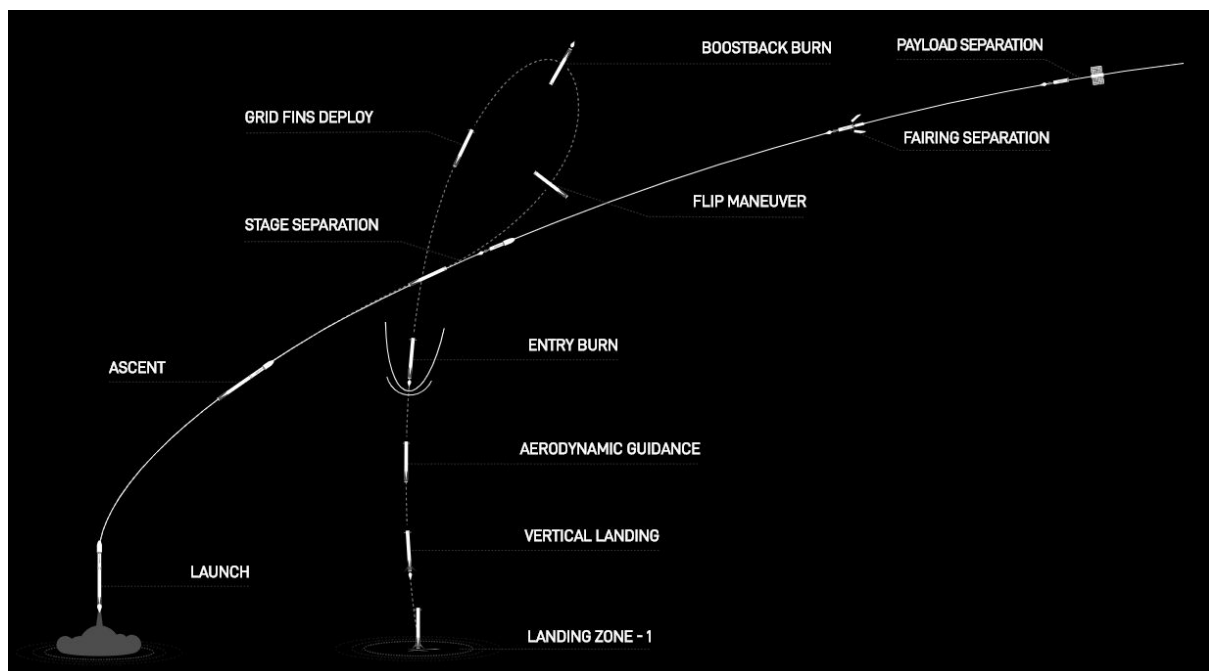
## MISSION OVERVIEW

SpaceX is targeting Sunday, August 30 at 7:18 p.m. EDT, or 23:18 UTC, for Falcon 9's launch of the [SAOCOM 1B mission](#), which will carry the SAOCOM 1B spacecraft to orbit in addition to two rideshare payloads, Tyvak-0172 and PlanetiQ's GNOMES-1.

The mission will lift off from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station in Florida. This mission marks SpaceX's first launch to a polar orbit from the East Coast, and the first polar launch from Florida in decades.

Falcon 9's first stage previously launched Dragon to the International Space Station for SpaceX's 19th and 20th commercial resupply missions, and it also supported launch of SpaceX's ninth Starlink mission. Following stage separation, SpaceX will land Falcon 9 on Landing Zone 1 at Cape Canaveral Air Force Station.

SAOCOM 1B will deploy approximately 14 minutes after launch, GNOMES-1 and Tyvak-0172 will deploy approximately 61 and 62 minutes after liftoff. You can watch the launch webcast [here](#), starting about 15 minutes before liftoff.



# MISSION TIMELINE

## COUNTDOWN

All Times Are Approximate

<b>Hr/Min/Sec</b>	<b>Event</b>
- 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 DEPLOYMENT

All Times Are Approximate

<b>Hr/Min/Sec</b>	<b>Event</b>
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:17	1st stage main engine cutoff (MECO)
00:02:20	1st and 2nd stages separate
00:02:27	2nd stage engine starts (SES-1)
00:03:43	Fairing deployment
00:06:24	1st stage entry burn complete
00:07:49	1st stage landing
00:10:08	2nd stage engine cutoff (SECO-1)
00:14:09	SAOCOM 1B deploys
01:01:39	GNOMES-1 deploys
01:02:19	Tyvak-0172 deploys