## MARCH 2019 SPACE ECONOMY NEWS -JAD

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[](https://spacenews.com/falcon-9-launches-crew-dragon-on-key-test-flight/)

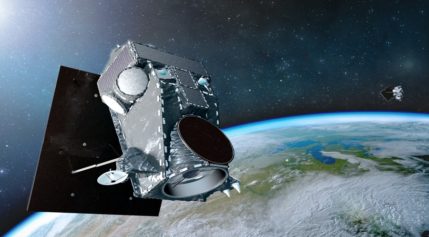
[CIVIL](https://spacenews.com/section/civil/) [COMMERCIAL](https://spacenews.com/section/commercial/)

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Maxar Technologies, which will lay off more than 200 people as it seeks to return to profitability, says the struggling satellite division it decided to keep will need to bring in roughly $500 million this year to break even.

* [](https://spacenews.com/foust-forward-the-government-shutdowns-shadow-on-commercial-space/)

[FROM THE MAGAZINE](https://spacenews.com/special-feature/from-the-magazine/)

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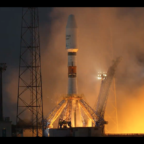
[SN MILITARY.SPACE](https://spacenews.com/special-feature/sn-military-space/)

# [Is the Space Development Agency a threat to SMC?](https://spacenews.com/is-the-space-development-agency-a-threat-to-smc/)

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[LAUNCH](https://spacenews.com/section/launch/)

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* [](https://spacenews.com/op-ed-sustainability-on-earth-depends-on-our-exploration-of-space/)

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# NASA

# **Latest NASA News Releases**

### **Results (1667)**

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# SPACE X

FEBRUARY 23, 2019

## [NUSANTARA SATU MISSION](https://www.spacex.com/news/2019/02/23/nusantara-satu-mission)

On Thursday, February 21 at 8:45 p.m. EST, SpaceX launched the Nusantara Satu satellite from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station, Florida.

[READ ARTICLE](https://www.spacex.com/news/2019/02/23/nusantara-satu-mission)

[](https://www.spacex.com/news/2019/01/14/dragon-resupply-mission-crs-16)

JANUARY 14, 2019

## [DRAGON RESUPPLY MISSION (CRS-16)](https://www.spacex.com/news/2019/01/14/dragon-resupply-mission-crs-16)

Packed with about two tons of cargo and science, SpaceX’s Dragon spacecraft departed the International Space Station on Sunday, January 13. A parachute-assisted splashdown in the Pacific Ocean occurred at about 9:10 p.m.

[READ ARTICLE](https://www.spacex.com/news/2019/01/14/dragon-resupply-mission-crs-16)

[](https://www.spacex.com/news/2019/01/11/iridium-8-mission)

JANUARY 11, 2019

## [IRIDIUM-8 MISSION](https://www.spacex.com/news/2019/01/11/iridium-8-mission)

On Friday, January 11 at 7:31 a.m. PST, 15:31 UTC, SpaceX successfully launched the eighth and final set of satellites in a series of 75 total satellites for Iridium’s next generation global satellite constellation, Iridium NEXT.

[READ ARTICLE](https://www.spacex.com/news/2019/01/11/iridium-8-mission)

[](https://www.spacex.com/news/2018/12/23/gps-iii-space-vehicle-01-mission)

DECEMBER 23, 2018

## [GPS III SPACE VEHICLE 01 MISSION](https://www.spacex.com/news/2018/12/23/gps-iii-space-vehicle-01-mission)

On Sunday, December 23rd at 5:51 a.m. PST, SpaceX successfully launched the United States Air Force’s first Global Positioning System III space vehicle (SV) from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station, Florida.

[READ ARTICLE](https://www.spacex.com/news/2018/12/23/gps-iii-space-vehicle-01-mission)

[](https://www.spacex.com/news/2018/12/05/dragon-resupply-mission-crs-16)

DECEMBER 05, 2018

## [DRAGON RESUPPLY MISSION (CRS-16)](https://www.spacex.com/news/2018/12/05/dragon-resupply-mission-crs-16)

On Wednesday, December 5, 2018, SpaceX launched its sixteenth Commercial Resupply Services mission (CRS-16) to the International Space Station. Liftoff occurred at 1:16 p.m.

[READ ARTICLE](https://www.spacex.com/news/2018/12/05/dragon-resupply-mission-crs-16)

[](https://www.spacex.com/news/2018/12/03/spaceflight-sso-smallsat-express-mission)

DECEMBER 03, 2018

## [SPACEFLIGHT SSO-A: SMALLSAT EXPRESS MISSION](https://www.spacex.com/news/2018/12/03/spaceflight-sso-smallsat-express-mission)

On Monday, December 3rd at 10:34 a.m. PST, SpaceX successfully launched Spaceflight SSO-A: SmallSat Express to a low Earth orbit from Space Launch Complex 4E (SLC-4E) at Vandenberg Air Force Base, California.

[READ ARTICLE](https://www.spacex.com/news/2018/12/03/spaceflight-sso-smallsat-express-mission)

[](https://www.spacex.com/news/2018/11/15/eshail-2-mission)

NOVEMBER 15, 2018

## [ES'HAIL-2 MISSION](https://www.spacex.com/news/2018/11/15/eshail-2-mission)

SpaceX successfully launched the Es’hail-2 satellite on Thursday, November 15 from Launch Complex 39A (LC-39A) at NASA’s Kennedy Space Center in Florida. Liftoff occurred at 3:46 p.m.

[READ ARTICLE](https://www.spacex.com/news/2018/11/15/eshail-2-mission)

[](https://www.spacex.com/news/2018/10/07/saocom-1a-mission)

OCTOBER 07, 2018

## [SAOCOM 1A MISSION](https://www.spacex.com/news/2018/10/07/saocom-1a-mission)

On Sunday, October 7 at 7:21 p.m. PDT, SpaceX successfully launched the SAOCOM 1A satellite from Space Launch Complex 4E (SLC-4E) at Vandenberg Air Force Base in California. The satellite was deployed about 12 minutes after liftoff.

[READ ARTICLE](https://www.spacex.com/news/2018/10/07/saocom-1a-mission)

[](https://www.spacex.com/news/2018/10/09/first-passenger-lunar-bfr-mission)

SEPTEMBER 18, 2018

## [FIRST PASSENGER ON LUNAR BFR MISSION](https://www.spacex.com/news/2018/10/09/first-passenger-lunar-bfr-mission)

On September 17, 2018, SpaceX announced fashion innovator and globally recognized art curator Yusaku Maezawa will be the company’s first private passenger to fly around the Moon in 2023.

[READ ARTICLE](https://www.spacex.com/news/2018/10/09/first-passenger-lunar-bfr-mission)

[](https://www.spacex.com/news/2018/09/09/telstar-18-vantage-mission)

SEPTEMBER 09, 2018

## [TELSTAR 18 VANTAGE MISSION](https://www.spacex.com/news/2018/09/09/telstar-18-vantage-mission)

On Monday, September 10th, SpaceX's Falcon 9 successfully lifted off at 12:45 a.m.

[READ ARTICLE](https://www.spacex.com/news/2018/09/09/telstar-18-vantage-mission)

[](https://www.spacex.com/news/2018/08/06/merah-putih-mission)

AUGUST 06, 2018

## [MERAH PUTIH MISSION](https://www.spacex.com/news/2018/08/06/merah-putih-mission)

On Tuesday, August 7th at 1:18 a.m. EDT, Falcon 9 successfully lifted off from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station, Florida carrying the Merah Putih mission for PT Telkom Indonesia.

[READ ARTICLE](https://www.spacex.com/news/2018/08/06/merah-putih-mission)

[](https://www.spacex.com/news/2018/08/04/nasa-astronauts-flying-aboard-crew-dragon)

AUGUST 04, 2018

## [NASA ASTRONAUTS FLYING ABOARD CREW DRAGON](https://www.spacex.com/news/2018/08/04/nasa-astronauts-flying-aboard-crew-dragon)

On Friday, August 3, 2018, NASA announced the first four astronauts who will launch aboard Crew Dragon (also known as Dragon 2) to the International Space Station as part of NASA’s [Commercial Crew P](https://blogs.nasa.gov/commercialcrew/)

[READ ARTICLE](https://www.spacex.com/news/2018/08/04/nasa-astronauts-flying-aboard-crew-dragon)

# ESA

# <https://www.esa.int/Our_Activities/Space_News>

[ESA](https://www.esa.int/) > [Our Activities](https://www.esa.int/Our_Activities) > Space News

## OUR MISSIONS

[All missions](https://www.esa.int/ESA/Our_Missions)

|  |  |  |
| --- | --- | --- |
| **NAME** | **LAUNCH** | **MISSION** |
| |  |  |  | | --- | --- | --- | | [EDRS](https://www.esa.int/Our_Activities/Telecommunications_Integrated_Applications/EDRS) | 2016 | Geostationary satellites for relaying satellite data |  |  |  |  | | --- | --- | --- | | [Exomars](http://exploration.esa.int/science-e/www/area/index.cfm?fareaid=118) | 2016 | Mars orbiter and lander, followed by rover and surface platform | | [SmallGEO](https://www.esa.int/Our_Activities/Telecommunications_Integrated_Applications/Small_Geostationary_Satellite_SGEO) | 2017 | New small platform for geostationary telecommunications | | | |

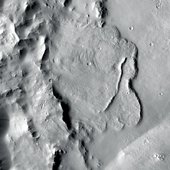
## LATEST NEWS



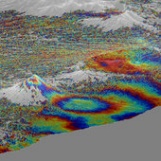
[Space weather kicks up a social storm](https://www.esa.int/Our_Activities/Operations/Space_Situational_Awareness/Space_weather_kicks_up_a_social_storm)01 March 2019



[Fit for Mars](https://www.esa.int/Our_Activities/Human_and_Robotic_Exploration/Exploration/ExoMars/Fit_for_Mars)28 February 2019



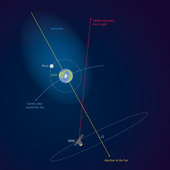
[First evidence of planet-wide groundwater system on Mars](https://www.esa.int/Our_Activities/Space_Science/Mars_Express/First_evidence_of_planet-wide_groundwater_system_on_Mars)28 February 2019



[Copernicus Sentinel-1 reveals shared plumbing led to Agung awakening](https://www.esa.int/Our_Activities/Observing_the_Earth/Copernicus/Sentinel-1/Copernicus_Sentinel-1_reveals_shared_plumbing_led_to_Agung_awakening)22 February 2019



[Signs of ancient flowing water on Mars](https://www.esa.int/Our_Activities/Space_Science/Mars_Express/Signs_of_ancient_flowing_water_on_Mars2)21 February 2019



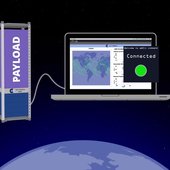
[Earth’s atmosphere stretches out to the Moon – and beyond](https://www.esa.int/Our_Activities/Space_Science/Earth_s_atmosphere_stretches_out_to_the_Moon_and_beyond)20 February 2019



[Close encounters: planning for extra Hera flyby](https://www.esa.int/Our_Activities/Space_Engineering_Technology/Hera/Close_encounters_planning_for_extra_Hera_flyby)20 February 2019



[Space behaviour](https://www.esa.int/Our_Activities/Human_and_Robotic_Exploration/International_Space_Station/Space_behaviour)19 February 2019



[Interactive space simulation for nanosatellites](https://www.esa.int/Our_Activities/Telecommunications_Integrated_Applications/Interactive_space_simulation_for_nanosatellites)19 February 2019



[Rosetta’s comet sculpted by stress](https://www.esa.int/Our_Activities/Space_Science/Rosetta/Rosetta_s_comet_sculpted_by_stress)18 February 2019



[Astronaut photography benefiting the planet](https://www.esa.int/Our_Activities/Human_and_Robotic_Exploration/Astronaut_photography_benefiting_the_planet)15 February 2019



[Shrinking heart](https://www.esa.int/Our_Activities/Observing_the_Earth/Shrinking_heart)13 February 2019



[Shrinking heart](https://www.esa.int/Our_Activities/Observing_the_Earth/Shrinking_heart)13 February 2019 This heart-shaped body of water may look cute for Valentine’s Day but just as love sometimes fades, this emerald sea is withering away.

# ROSCOSMOS

* [March 02, 2019Roscosmos and NASA Work Out the Safety Protocols for Docking of American Spacecraft](http://en.roscosmos.ru/20770/)
* [February 19, 2019Roscosmos and Space Adventures signed a contract for the implementation of the short duration space flights to the ISS](http://en.roscosmos.ru/20769/)
* [February 13, 2019GK Activated Online Launch Price Calculator for SmallSats](http://en.roscosmos.ru/20768/)

# CHINA SPACE AGENCY

<http://www.cnsa.gov.cn/english/index.html>

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | [Xi meets Chang'e-4 mission representatives](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805507/content.html) | 02-21 |  |  |  | | --- | --- | | [China's Chang'e-4 probe wakes up after first lunar night](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805358/content.html) | 02-01 |  |  |  | | --- | --- | | [China open to int'l cooperation in future space missions](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805234/content.html) | 01-15 |  |  |  | | --- | --- | | [China declares Chang'e-4 mission complete success](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805233/content.html) | 01-15 |  |  |  | | --- | --- | | [China welcomes world's scientists to collaborate in lunar explorat...](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805232/content.html) | 01-15 |  |  |  | | --- | --- | | [Chang'e-4 probe takes panoramic photos on moon's far side](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805231/content.html) | 01-15 |  |  |  | | --- | --- | | [Breathtaking 12 minutes for Chang'e-4's landing](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805104/content.html) | 01-04 |  |  |  | | --- | --- | | [China names new moon rover "YuTu-2"](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805105/content.html) | 01-04 |  |  |  | | --- | --- | | [Chang'e-4 lands on largest crater in solar system](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805106/content.html) | 01-04 |  |  |  | | --- | --- | | [China's Chang'e-4 probe makes historic landing on moon's far side](http://www.cnsa.gov.cn/english/n6465652/n6465653/c6805049/content.html) | 01-03 |  |  | | --- | | 1 [2](javascript:pageName=35;goPub('../../n6465652/n6465653/index_6600691_35.html')) [3](javascript:pageName=34;goPub('../../n6465652/n6465653/index_6600691_34.html')) [4](javascript:pageName=33;goPub('../../n6465652/n6465653/index_6600691_33.html')) [5](javascript:pageName=32;goPub('../../n6465652/n6465653/index_6600691_32.html')) [6](javascript:pageName=31;goPub('../../n6465652/n6465653/index_6600691_31.html')) [7](javascript:pageName=30;goPub('../../n6465652/n6465653/index_6600691_30.html')) [8](javascript:pageName=29;goPub('../../n6465652/n6465653/index_6600691_29.html')) [9](javascript:pageName=28;goPub('../../n6465652/n6465653/index_6600691_28.html')) [10](javascript:pageName=27;goPub('../../n6465652/n6465653/index_6600691_27.html')) [下页](javascript:pageName=35;goPub('../../n6465652/n6465653/index_6600691_35.html')) [尾页](javascript:pageName=1;goPub('../../n6465652/n6465653/index_6600691_1.html')) 总页数:36 | |

## VIRGIN GALACTIC

## Virgin Galactic Makes Space for Second Time in Ten Weeks with Three On Board, Reaching Higher Altitudes and Faster Speeds, as Flight Test Program Continues

[Read more](https://www.virgingalactic.com/articles/virgin-galactic-makes-space-for-second-time-in-ten-weeks-with-three-on-board)

[[](https://www.virgingalactic.com/articles/vss-unity-prepares-for-fifth-supersonicpowered-test-flight)](https://www.virgingalactic.com/articles/vss-unity-prepares-for-fifth-supersonicpowered-test-flight)

## SpaceShipTwo, VSS Unity, Prepares For Fifth Supersonic Powered Test Flight

[Read more](https://www.virgingalactic.com/articles/vss-unity-prepares-for-fifth-supersonicpowered-test-flight)

[[](https://www.virgingalactic.com/articles/virgin-galactic-and-the-spaceship-company-donate-record-setting-rocket-motor)](https://www.virgingalactic.com/articles/virgin-galactic-and-the-spaceship-company-donate-record-setting-rocket-motor)

## Spaceflight Rocket Motor donated to the Smithsonian Air & Space Museum

[Read more](https://www.virgingalactic.com/articles/virgin-galactic-and-the-spaceship-company-donate-record-setting-rocket-motor)

## Virgin Galactic Pilots Awarded Commercial Astronaut Wings

[Read more](https://www.virgingalactic.com/articles/virgin-galactic-pilots-awarded-commercial-astronaut-wings)

## Virgin Galactic Unveils Under Armour As Exclusive Technical Spacewear Partner

[Read more](https://www.virgingalactic.com/articles/virgin-galactic-and-under-armour-announce-partnership)

[[](https://www.virgingalactic.com/articles/virgin-galactic-and-the-spaceship-company-donate-record-setting-rocket-motor)](https://www.virgingalactic.com/articles/virgin-galactic-and-the-spaceship-company-donate-record-setting-rocket-motor)

### FEBRUARY 7, 2019

## Spaceflight Rocket Motor donated to the Smithsonian Air & Space Museum

[Read more](https://www.virgingalactic.com/articles/virgin-galactic-and-the-spaceship-company-donate-record-setting-rocket-motor)

### JANUARY 24, 2019

## Virgin Galactic Unveils Under Armour As Exclusive Technical Spacewear Partner

[Read more](https://www.virgingalactic.com/articles/virgin-galactic-and-under-armour-announce-partnership)

[[](https://www.virgingalactic.com/articles/first-space-flight)](https://www.virgingalactic.com/articles/first-space-flight)

### DECEMBER 13, 2018

## Richard Branson Welcomes Astronauts Home from Virgin Galactic’s Historic First Spaceflight

[Read more](https://www.virgingalactic.com/articles/first-space-flight)

[[](https://www.virgingalactic.com/articles/Virgin-Galactic-Flight-Test-Program-Update-SpaceShipTwo-Preparing-For-Fourth-Powered-Test-Flight)](https://www.virgingalactic.com/articles/Virgin-Galactic-Flight-Test-Program-Update-SpaceShipTwo-Preparing-For-Fourth-Powered-Test-Flight)

### DECEMBER 12, 2018

## Virgin Galactic Flight Test Program Update - SpaceShipTwo Preparing For Fourth Powered Test Flight

[Read more](https://www.virgingalactic.com/articles/Virgin-Galactic-Flight-Test-Program-Update-SpaceShipTwo-Preparing-For-Fourth-Powered-Test-Flight)

[[](https://www.virgingalactic.com/articles/Into-the-Mesosphere-at-Mach-2)](https://www.virgingalactic.com/articles/Into-the-Mesosphere-at-Mach-2)

### JULY 26, 2018

## Into the Mesosphere at Mach 2.4

[Read more](https://www.virgingalactic.com/articles/Into-the-Mesosphere-at-Mach-2)

[[](https://www.virgingalactic.com/articles/altec-sitael-virgingalactic-and-thespaceshipcompany-sign-framework-to-bring-commercial-spaceflights-to-italy)](https://www.virgingalactic.com/articles/altec-sitael-virgingalactic-and-thespaceshipcompany-sign-framework-to-bring-commercial-spaceflights-to-italy)

### JULY 6, 2018

## ALTEC, SITAEL, Virgin Galactic & The Spaceship Company Sign Framework to Bring Commercial Spaceflights to Italy

Press Release

[Read more](https://www.virgingalactic.com/articles/altec-sitael-virgingalactic-and-thespaceshipcompany-sign-framework-to-bring-commercial-spaceflights-to-italy)

[[](https://www.virgingalactic.com/articles/Richard-Branson-Welcomes-VSS-Unity-Home-from-Second-Supersonic-Flight)](https://www.virgingalactic.com/articles/Richard-Branson-Welcomes-VSS-Unity-Home-from-Second-Supersonic-Flight)

### MAY 29, 2018

## Richard Branson Welcomes VSS Unity Home from Second Supersonic Flight

[Read more](https://www.virgingalactic.com/articles/Richard-Branson-Welcomes-VSS-Unity-Home-from-Second-Supersonic-Flight)

[[](https://www.virgingalactic.com/articles/VSS-Unity-First-Powered-Flight)](https://www.virgingalactic.com/articles/VSS-Unity-First-Powered-Flight)

### APRIL 5, 2018

## VSS Unity First Powered Flight

A major step forward

[Read more](https://www.virgingalactic.com/articles/VSS-Unity-First-Powered-Flight)

[[](https://www.virgingalactic.com/articles/Update-From-Mojave-VSS-Unity-Successfully-Completes-High-Speed-Glide-Flight)](https://www.virgingalactic.com/articles/Update-From-Mojave-VSS-Unity-Successfully-Completes-High-Speed-Glide-Flight)

### JANUARY 11, 2018

## Update From Mojave: VSS Unity Successfully Completes High Speed Glide Flight

Unity successfully completed her seventh glide flight.

[Read more](https://www.virgingalactic.com/articles/Update-From-Mojave-VSS-Unity-Successfully-Completes-High-Speed-Glide-Flight)

[[](https://www.virgingalactic.com/articles/italian-space-agency)](https://www.virgingalactic.com/articles/italian-space-agency)

### DECEMBER 18, 2017

## Italian Space Agency (ASI) Signs Letter Of Intent For Virgin Galactic Research Flight

Press Release

[Read more](https://www.virgingalactic.com/articles/italian-space-agency)

[[](https://www.virgingalactic.com/articles/saudi-arabia-and-virgin-announce-partnership)](https://www.virgingalactic.com/articles/saudi-arabia-and-virgin-announce-partnership)

### OCTOBER 26, 2017

## Kingdom Of Saudi Arabia And Virgin Announce Partnership On Spaceflight, Satellite Launch And Space Centric Entertainment Industry

Press Release

[Read more](https://www.virgingalactic.com/articles/saudi-arabia-and-virgin-announce-partnership)

[[](https://www.virgingalactic.com/articles/update-from-mojave-vss-unity-flies-with-propulsion-systems-installed-and-live)](https://www.virgingalactic.com/articles/update-from-mojave-vss-unity-flies-with-propulsion-systems-installed-and-live)

### AUGUST 4, 2017

## Update From Mojave: VSS Unity Flies With Propulsion Systems Installed And Live

This was Unity’s sixth glide test and essentially a dry run for rocket-powered flights.

[Read more](https://www.virgingalactic.com/articles/update-from-mojave-vss-unity-flies-with-propulsion-systems-installed-and-live)

https://www.virgingalactic.com/news/