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## Countdown Report for the Global Changing Observation Mission "SHIKISAI" (GCOM-C) and Super Low Altitude Test Satellite "TSUBAME" (SLATS) aboard H-IIA Vehicle No.37

Final countdown status of H-IIA Flight F37 carrying Global Changing Observation Mission "SHIKISAI" (GCOM-C) and Super Low Altitude Test Satellite "TSUBAME" (SLATS) will be reported.

\* Please reload this page for the latest on the launch.



December 23, 2017 12:14 JST  
**Separation of "TSUBAME" confirmed**

The separation of "TSUBAME" has been confirmed.



December 23, 2017 10:42 JST  
**Separation of "SHIKISAI" confirmed**

The separation of "SHIKISAI" has been confirmed.



December 23, 2017 10:26 JST  
**Liftoff**

Mitsubishi Heavy Industries (MHI) has launched the H-IIA Launch Vehicle No. 37 carrying "SHIKISAI" and "TSUBAME" at 10:26:22 on Dec. 23, 2017 JST from the Tanegashima Space Center.



< Click image to enlarge >

Liftoff of H-IIA F37 (1)



< Click image to enlarge >

Liftoff of H-IIA F37 (2)

December 23, 2017 10:21 JST

### Automatic countdown sequence to start

It is 4 minutes and 40 seconds before liftoff. The automatic countdown sequence has started.

December 23, 2017 09:56 JST

### X-30 minutes

It is 30 minutes before launch.

December 23, 2017 09:26 JST

### X-60 minutes

It is 60 minutes before launch. The final countdown operation has started.



< Click image to enlarge >

H-IIA F37 - Final countdown operation has started

December 23, 2017 09:21 JST

### Third Go/No Go Decision

The green light has been given to the X-60 minutes terminal countdown operation.

December 23, 2017 08:34 JST

### Attitude control system flight slew test completed

The second attitude control system flight slew test has been completed.

December 23, 2017 05:28 JST

### Radio frequency system checked up

The radio frequency system between H-IIA F37 and the ground stations has been checked up.

December 23, 2017 04:55 JST

### First stage and second stage liquid oxygen and liquid hydrogen tanks fully loaded

It has been confirmed that the first- and second-stage liquid hydrogen and liquid oxygen tanks have been fully loaded.



< Click image to enlarge >

H-IIA F37 - Both liquid hydrogen and liquid oxygen tanks fully loaded

December 23, 2017 03:39 JST

### Attitude control system flight slew test completed

By running programs of the guidance and control system mounted on H-IIA F37, it has been confirmed that all devices for flight attitude control are working as expected.

December 23, 2017 02:50 JST

### Access restrictions to start within a radius of 3,000 meters from launch pad.

Access will now be restricted within a radius of 3,000 meters from the launch pad.

December 23, 2017 01:00 JST

### Terminal countdown operation has started

Terminal countdown operation has started. Access will now be restricted within a radius of 400 meters from the launch pad.



< Click image to enlarge >

Terminal countdown operation has started

December 23, 2017 00:41 JST

### Second Go/No Go Decision -'Go'

Final checks have been made for operational conditions of the launch vehicle, satellites, launch facilities, and tracking and control systems, as well as weather conditions. We now have gotten a go-ahead for loading the propellant, such as liquid oxygen and liquid hydrogen, into the launch vehicle. Propellant loading preparations are going to start.

December 22, 2017 20:55 JST

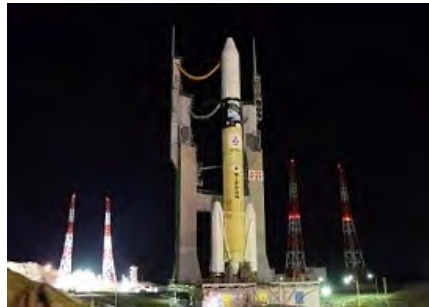
### H-IIA F37 has arrived at launch pad

H-IIA F37 has arrived at the launch pad. The launch vehicle is going to be connected to the pad facilities.



< Click image to enlarge >

Snapshot of launch site



< Click image to enlarge >

H-IIA F37 on the way to launch pad



< Click image to enlarge >

H-IIA F37 has arrived at launch pad

December 22, 2017 20:30 JST

### H-IIA F37 on the way to launch pad

H-IIA F37 carrying "SHIKISAI" and "TSUBAME" has left for the launch pad. H-IIA F37, mounted on the mobile launcher, will travel approximately 500 meters from the Vehicle Assembly Building to the launch pad. This will take about 30 minutes.

December 22, 2017 17:06 JST

### First Go/No Go Decision '-Go'

This is an updated launch countdown report on the "SHIKISAI"(Global Changing Observation Mission - Climate) and "TSUBAME"(Super Low Altitude Test Satellite) , which will be launched using the H-IIA No. 37 Launch Vehicle (H-IIA F37). After the weather conditions checked out, the green light has been given for H-IIA F37 carrying "SHIKISAI" and "TSUBAME" to leave the Vehicle Assembly Building for the launch pad. The scheduled launch time is Dec. 23, 2017 10:26:22 a.m. JST.

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