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## Countdown Report for the Telstar 12 VANTAGE launch on H-IIA Launch Vehicle Flight No.29

Final countdown status of H-IIA Flight F29 carrying Telstar 12 VANTAGE will be reported.

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



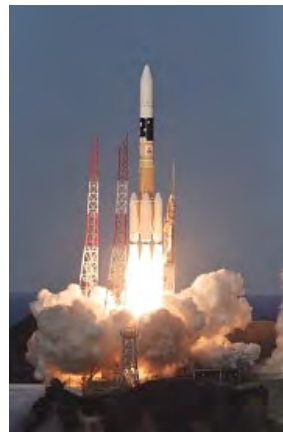
November 24, 2015 20:17 JST  
**Separation of "Telstar 12 VANTAGE" confirmed**

The separation of "Telstar 12 VANTAGE" has been confirmed.



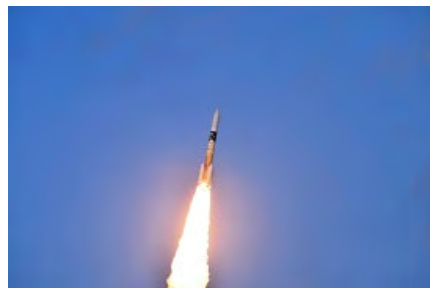
November 24, 2015 15:50 JST  
**Liftoff**

Mitsubishi Heavy Industries (MHI) has launched the H-IIA Launch Vehicle No. 29 carrying Telesat's broadcast and telecommunication satellite, "Telstar 12 VANTAGE" at 3:50 p.m. on Nov. 24, 2015 JST from the Tanegashima Space Center.



< Click image to enlarge >

Liftoff of H-IIA F29 (1)



< Click image to enlarge >

Liftoff of H-IIA F29 (2)



November 24, 2015 15:45 JST  
**Automatic countdown sequence to start**

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

November 24, 2015 15:33 JST

### The launch time was rescheduled

The H-IIA F29 launch time was changed, because a boat went into the predetermined restricted area. New launch time is 3:50 p.m. JST.

November 24, 2015 14:53 JST

### X-30 minutes

It is 30 minutes before launch.

November 24, 2015 14:23 JST

### X-60 minutes

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



< Click image to enlarge >

H-IIA F29 - Final countdown operation has started

November 24, 2015 14:14 JST

### Third Go/No Go Decision

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

November 24, 2015 13:54 JST

### Attitude control system flight slew test completed

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

November 24, 2015 11:43 JST

### Radio frequency system checked up

The radio frequency system between H-IIA F29 and the ground stations has been checked up.

November 24, 2015 10:52 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 F29 - Both liquid hydrogen and liquid oxygen tanks fully loaded

November 24, 2015 09:09 JST

### Attitude control system flight slew test completed

By running programs of the guidance and control system mounted on H-IIA F29, it has been confirmed that all devices for flight attitude control are working as expected.

November 24, 2015 08:13 JST

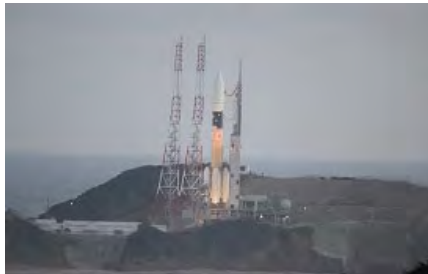
### Access restrictions to start within a radius of 3,000 meters from launch pad.

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

November 24, 2015 06:41 JST

### Terminal countdown operation to start

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

November 24, 2015 06:15 JST

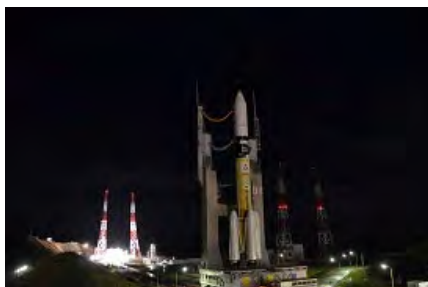
### Second Go/No Go Decision -'Go'

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.

November 23, 2015 22:56 JST

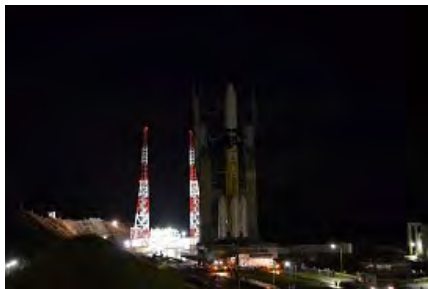
### H-IIA F29 to arrive at launch pad

H-IIA F29 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 F29 on the way to launch pad



< Click image to enlarge >

H-IIA F29 has arrived at launch pad

November 23, 2015 22:33 JST

### H-IIA F29 on the way to launch pad

H-IIA F29 carrying "Telstar 12 VANTAGE" has left for the launch pad. H-IIA F29, mounted on a mobile launcher, will travel approximately 500 meters from the Vehicle Assembly Building to the launch pad. This will take about 30 minutes.

November 23, 2015 16:39 JST

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

This is an updated launch countdown report on the Telesat's broadcast and telecommunication satellite, "Telstar 12 VANTAGE", which will be launched using the H-IIA No. 29 Launch Vehicle (H-IIA F29). After the weather conditions checked out, the green light has been given for H-IIA F29 carrying "Telstar 12 VANTAGE" to leave the Vehicle Assembly Building for the launch pad. The scheduled launch time is Nov. 24, 2015 3:23 p.m. JST.

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