



# MHI Launch Services

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## Countdown Report for the "KOUNOTORI5" (HTV5) launch on H-IIB Launch Vehicle Flight No.5

Final countdown status of H-IIB Flight F5 carrying "KOUNOTORI5" (HTV5) will be reported.

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



August 19, 2015 21:06 JST

### Separation of "KOUNOTORI 5" (HTV5) confirmed

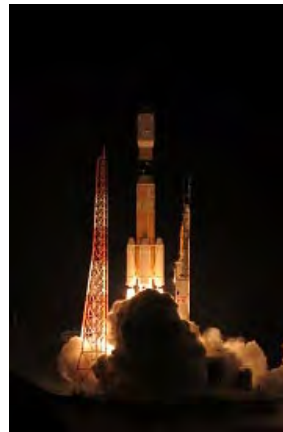
The separation of "KOUNOTORI 5" (HTV5) has been confirmed.



August 19, 2015 20:50 JST

### Liftoff

Mitsubishi Heavy Industries (MHI) has launched the H-IIB Launch Vehicle No. 5 carrying "KOUNOTORI5" at 20:50 on Aug 19, 2015 JST from the Tanegashima Space Center.



< Click image to enlarge >

Liftoff of H-IIB F5



August 19, 2015 20:46 JST

### Automatic countdown sequence to start

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



August 19, 2015 20:20 JST

### X-30 minutes

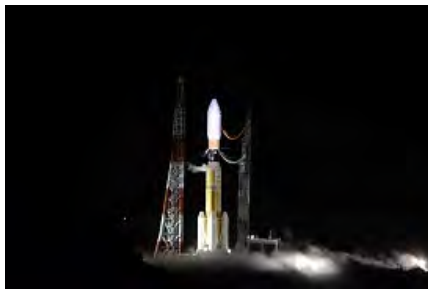
It is 30 minutes before launch.



August 19, 2015 19:50 JST

### X-60 minutes

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



< Click image to enlarge >

H-IIIB F5 - Final countdown operation has started

August 19, 2015 19:45 JST

### Third Go/No Go Decision

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

August 19, 2015 19:18 JST

### Attitude control system flight slew test completed

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

August 19, 2015 15:57 JST

### Radio frequency system checked up

The radio frequency system between H-IIIB F5 and the ground stations has been checked up.

August 19, 2015 15:13 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-IIIB F5 - Both liquid hydrogen and liquid oxygen tanks fully loaded

August 19, 2015 13:47 JST

### Attitude control system flight slew test completed

By running programs of the guidance and control system mounted on H-IIIB F5, it has been confirmed that all devices for flight attitude control are working as expected.

August 19, 2015 12:15 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.

August 19, 2015 11:00 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

August 19, 2015 10:05 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.

August 19, 2015 05:02 JST

### H-IIIB F5 to arrive at launch pad

H-IIIB F5 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-IIIB F5 on the way to launch pad



< Click image to enlarge >

H-IIB F5 on the way to launch pad



< Click image to enlarge >

H-IIB F5 has arrived at launch pad

August 19, 2015 04:30 JST

### H-IIB F5 on the way to launch pad

H-IIB F5 carrying "KOUNOTORI5" has left for the launch pad. H-IIB F5, 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.

August 19, 2015 00:38 JST

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

This is an updated launch countdown report on the "KOUNOTORI5" (HTV5) which will be launched using the H-IIB No. 5 Launch Vehicle (H-IIB F5). After the weather conditions checked out, the green light has been given for H-IIB F5 carrying "KOUNOTORI5" to leave the Vehicle Assembly Building for the launch pad. The scheduled launch time is Aug 19, 2015 20:50:49 JST.

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