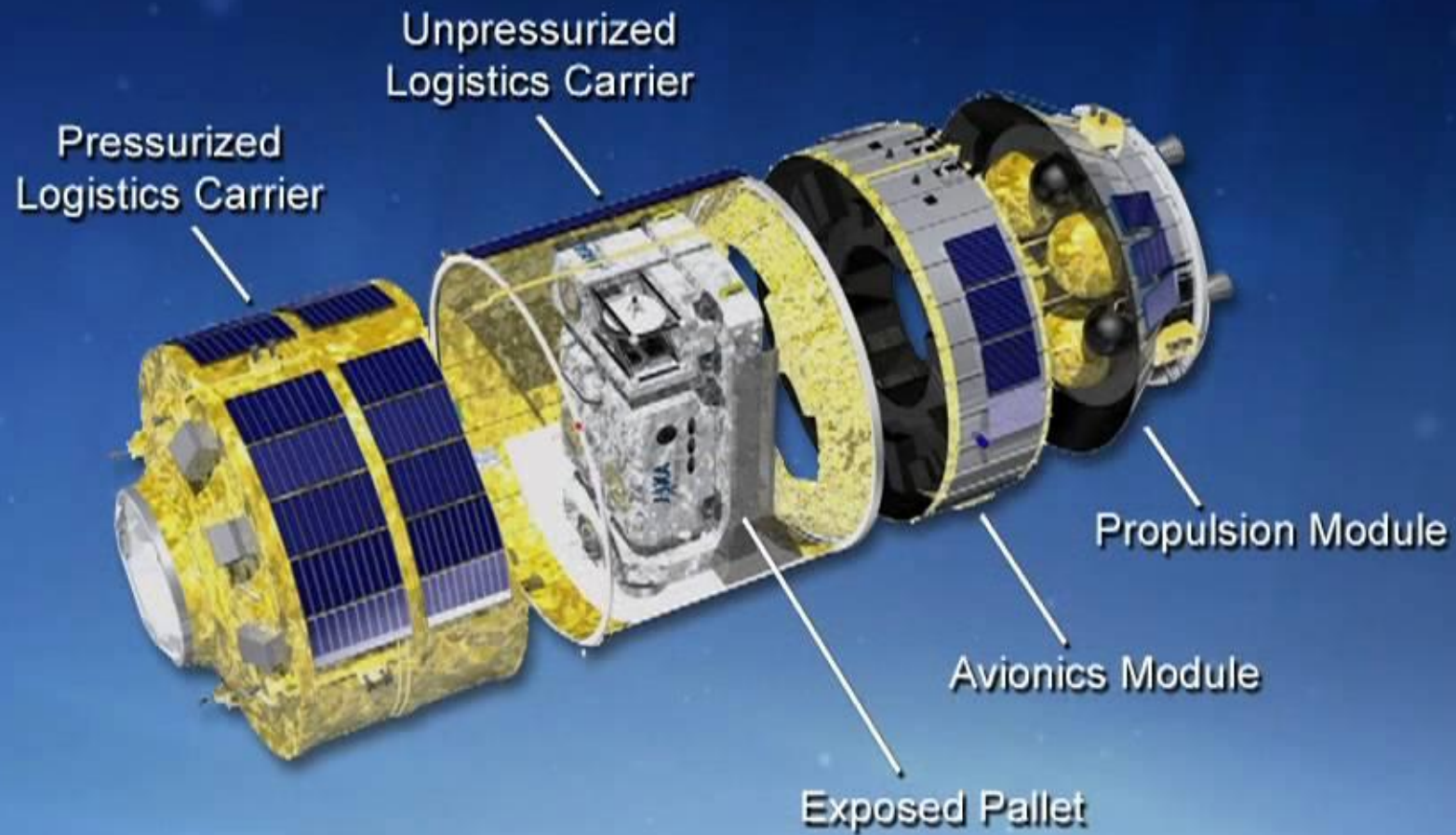


H-II Transfer Vehicle (HTV)



1
00:00:05,226 --> 00:00:07,546
>> Good day and welcome
to Space Station Live

2
00:00:07,596 --> 00:00:10,976
for Wednesday, August 7, 2013.

3
00:00:11,636 --> 00:00:14,336
The Expedition 36 crew has
been involved in a variety

4
00:00:14,336 --> 00:00:15,816
of experiments today

5
00:00:15,816 --> 00:00:19,016
and research activities
including one called the Ace

6
00:00:19,016 --> 00:00:22,466
Experiment, the Advanced
Colloids Experiment,

7
00:00:22,716 --> 00:00:23,756
the first in a series

8
00:00:23,756 --> 00:00:27,136
of microscopic imaging
investigations of materials

9
00:00:27,276 --> 00:00:31,096
to determine how better
to formulate materials

10
00:00:31,096 --> 00:00:33,366
in the micro-gravity
environment of space.

11
00:00:33,706 --> 00:00:35,096
Astronaut Karen Nyberg,

12

00:00:35,096 --> 00:00:38,466

her gloved hands inside the
micro-gravity science glove box

13

00:00:38,756 --> 00:00:43,256

earlier today had an opportunity
to prepare for the next run

14

00:00:43,256 --> 00:00:46,786

of data collection with the
Advanced Colloids Experiment.

15

00:00:47,066 --> 00:00:49,936

Again, in the micro-gravity
science glove box

16

00:00:49,936 --> 00:00:53,546

in the Destiny Laboratory of
the International Space Station.

17

00:00:53,546 --> 00:00:56,416

Just one of a variety of
experiments being conducted

18

00:00:56,416 --> 00:00:58,936

on board the International
Space Station.

19

00:00:59,496 --> 00:01:02,456

Meanwhile Russian
Cosmonauts Fyodor Yurchikhin

20

00:01:02,456 --> 00:01:05,376

and Alexander Misurkin were
busy in the Russian segment

21

00:01:05,376 --> 00:01:08,776

of the complex preparing
their Orlan space suits

22

00:01:08,776 --> 00:01:13,246

for two space walks coming up
on August 16th and August 22nd.

23

00:01:13,476 --> 00:01:16,736

The first of those two space
walks to be conducted outside

24

00:01:16,736 --> 00:01:19,576

of the Pirs Docking
Compartment by Yurchikhin

25

00:01:19,576 --> 00:01:22,986

and Misurkin will install
a panel of experiments

26

00:01:22,986 --> 00:01:25,986

on the Poisk module,
deploy a gap spanner

27

00:01:25,986 --> 00:01:28,146

between the Zarya
module and Poisk,

28

00:01:28,446 --> 00:01:31,816

and to install Ethernet
cables on the Poisk module

29

00:01:31,816 --> 00:01:34,366

that will be part of
the hardware associated

30

00:01:34,366 --> 00:01:37,166

with the arrival of a new
Russian laboratory module

31

00:01:37,166 --> 00:01:38,356

at the end of the year.

32

00:01:38,776 --> 00:01:41,186

Six days later, they'll
venture back outside

33

00:01:41,186 --> 00:01:44,116

of the Pirs Docking
Compartment on August 22nd

34

00:01:44,116 --> 00:01:47,256

for another space walk
in which they will trade

35

00:01:47,256 --> 00:01:51,116

out a laser experiment on the
outside of the Russian segment

36

00:01:51,116 --> 00:01:54,146

of the space station for
a pointing platform upon

37

00:01:54,146 --> 00:01:57,866

which an optical telescope will
be launched in the near future.

38

00:01:58,406 --> 00:02:02,016

The Japanese cargo ship,
the H-II transfer vehicle

39

00:02:02,016 --> 00:02:04,236

or the HTV4 continues

40

00:02:04,236 --> 00:02:07,336

to fly smoothly toward the
International Space Station,

41

00:02:07,676 --> 00:02:09,326

having conducted a series

42

00:02:09,326 --> 00:02:13,086

of rendezvous maneuvers again throughout the past 24 hours.

43

00:02:13,446 --> 00:02:17,656

As of a few minutes ago, the HTV was traveling just

44

00:02:17,656 --> 00:02:21,626

under 5,000 statute miles behind the International Space Station.

45

00:02:21,906 --> 00:02:26,176

Some 70 statute miles below the complex facing back toward the

46

00:02:26,176 --> 00:02:28,226

International Space Station at a rate

47

00:02:28,226 --> 00:02:31,576

of about 770 statute miles per orbit.

48

00:02:31,946 --> 00:02:37,146

The HTV is poised to be captured by Astronauts Karen Nyberg

49

00:02:37,146 --> 00:02:40,066

and Chris Cassidy, using the station's robotic arm

50

00:02:40,296 --> 00:02:42,786

on Friday morning the capture scheduled

51

00:02:42,786 --> 00:02:45,336

at 6:29 a.m. Central time.

52

00:02:46,146 --> 00:02:50,166

Cassidy and Nyberg are also

working inside the Japanese Kibo

53

00:02:50,166 --> 00:02:55,026

module preparing a series of
satellites called SPHERES,

54

00:02:55,306 --> 00:02:59,256

the acronym for the Synchronized
Position, Hold, Engage, Reorient

55

00:02:59,256 --> 00:03:02,616

and Experimental
Satellites for some test runs

56

00:03:02,616 --> 00:03:05,316

that will be conducted
in an ongoing competition

57

00:03:05,316 --> 00:03:07,536

with students that will
be gathered next Tuesday

58

00:03:07,766 --> 00:03:10,296

at the Massachusetts
Institute of Technology

59

00:03:10,546 --> 00:03:13,506

where the experiment's principle
investigators are housed.

60

00:03:13,796 --> 00:03:17,436

The SPHERES experiments
enable students to engage

61

00:03:17,436 --> 00:03:20,076

in a competition in which
they program the satellites

62

00:03:20,356 --> 00:03:24,226

to gather data on the operation

of free-flying satellites

63

00:03:24,226 --> 00:03:26,086

in a micro gravity environment.