



SPACE TO GROUND

1
00:00:04,789 --> 00:00:02,950
houston station on space to ground

2
00:00:06,389 --> 00:00:04,799
welcome to space to ground your weekly

3
00:00:08,150 --> 00:00:06,399
look at what's happening on board the

4
00:00:10,150 --> 00:00:08,160
international space station i'm dan

5
00:00:11,990 --> 00:00:10,160
hewitt a new cargo ship launched

6
00:00:15,030 --> 00:00:12,000
successfully this week with a several

7
00:00:17,189 --> 00:00:15,040
ton shipment on board the fifth japanese

8
00:00:20,070 --> 00:00:17,199
htv lifted off on wednesday and made it

9
00:00:21,990 --> 00:00:20,080
to orbit in just 15 minutes the unmanned

10
00:00:23,990 --> 00:00:22,000
ship is packed with over four and a half

11
00:00:26,070 --> 00:00:24,000
tons of equipment and supplies for the

12
00:00:28,470 --> 00:00:26,080
station crew and is even carrying what

13
00:00:30,870 --> 00:00:28,480

will be the new iss kitchen it's

14

00:00:32,870 --> 00:00:30,880

scheduled to arrive on august 24th which

15

00:00:35,590 --> 00:00:32,880

you can watch live by checking out

16

00:00:37,990 --> 00:00:35,600

nasa.gov ntv

17

00:00:39,590 --> 00:00:38,000

and onboard htv is a new experiment

18

00:00:42,069 --> 00:00:39,600

that's going to try and unlock some of

19

00:00:44,470 --> 00:00:42,079

the great mysteries of the universe the

20

00:00:46,709 --> 00:00:44,480

calorimetric electron telescope or

21

00:00:48,470 --> 00:00:46,719

calais will be searching for signatures

22

00:00:50,950 --> 00:00:48,480

of dark matter one of the biggest

23

00:00:53,110 --> 00:00:50,960

question marks in modern astrophysics

24

00:00:54,790 --> 00:00:53,120

the japanese experiment will be exposed

25

00:00:57,029 --> 00:00:54,800

to space and measure high energy

26

00:00:59,189 --> 00:00:57,039

particles hopefully providing clues to

27

00:01:01,029 --> 00:00:59,199

things like the origin of cosmic rays

28

00:01:03,029 --> 00:01:01,039

and the existence of dark matter

29

00:01:05,509 --> 00:01:03,039

important steps in better understanding

30

00:01:07,670 --> 00:01:05,519

our solar system and beyond

31

00:01:09,910 --> 00:01:07,680

we received a lot of questions asking if

32

00:01:11,990 --> 00:01:09,920

the perseid meteor shower was affecting

33

00:01:13,830 --> 00:01:12,000

the station at all and if the astronauts

34

00:01:16,070 --> 00:01:13,840

could see it well fortunately the

35

00:01:17,910 --> 00:01:16,080

station isn't in any danger during such

36

00:01:19,270 --> 00:01:17,920

events and they did manage to get a

37

00:01:21,429 --> 00:01:19,280

quick glimpse

38

00:01:23,429 --> 00:01:21,439

most of the material in a meteor shower

39

00:01:25,510 --> 00:01:23,439

is made up of dust and very tiny

40

00:01:27,910 --> 00:01:25,520

particles that the station is protected

41

00:01:30,310 --> 00:01:27,920

from by tough shielding the only extra

42

00:01:32,469 --> 00:01:30,320

precaution we take is no spacewalks when

43

00:01:33,670 --> 00:01:32,479

flying through as spacesuits are more

44

00:01:35,590 --> 00:01:33,680

vulnerable

45

00:01:37,590 --> 00:01:35,600

and astronaut scott kelly only managed

46

00:01:39,270 --> 00:01:37,600

to get one shot of a meteor streaking

47

00:01:40,789 --> 00:01:39,280

through the earth's atmosphere but was

48

00:01:43,749 --> 00:01:40,799

quick to remind us that the view is

49

00:01:45,190 --> 00:01:43,759

spectacular no matter what

50

00:01:47,030 --> 00:01:45,200

make sure to keep sending us your

51
00:01:49,429 --> 00:01:47,040
questions and comments using the hashtag

52
00:01:51,190 --> 00:01:49,439
spacetoground and for more station news

53
00:01:53,510 --> 00:01:51,200
be sure to watch space station live