



SPACE
TO
GROUND

1
00:00:00,720 --> 00:00:02,880
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:03,176 --> 00:00:05,376
WELCOME TO SPACE TO
GROUND, I'M HAYLEY FICK.

3
00:00:05,500 --> 00:00:08,740
THE SPACEX DRAGON CARGO VEHICLE
ARRIVED AT STATION THIS WEEK

4
00:00:08,740 --> 00:00:11,360
WITH SCIENCE THAT CAN ONLY
BE DONE IN MICROGRAVITY.

5
00:00:11,940 --> 00:00:14,660
ON MONDAY AUGUST
FOURTEENTH, DRAGON LIFTED OFF

6
00:00:14,660 --> 00:00:18,580
FROM LAUNCH COMPLEX 39A AT
KENNEDY SPACE CENTER IN FLORIDA

7
00:00:18,580 --> 00:00:21,560
WITH MORE THAN 6,400
POUNDS OF SUPPLIES.

8
00:00:22,136 --> 00:00:25,556
THEN ASTRONAUTS JACK FISCHER
OF NASA AND PAOLO NESPOLI

9
00:00:25,556 --> 00:00:29,106
OF THE EUROPEAN SPACE AGENCY
USED THE STATION'S ROBOTIC ARM

10
00:00:29,106 --> 00:00:32,566
TO CAPTURE AND INSTALL DRAGON
ON WEDNESDAY AUGUST SIXTEENTH.

11
00:00:33,106 --> 00:00:35,536
AMONG THE CARGO IS MORE
THAN 2 TONS OF RESEARCH

12
00:00:35,540 --> 00:00:38,720
THAT WILL STUDY COSMIC RAYS,
PROTEIN CRYSTAL GROWTH RELATED

13
00:00:38,720 --> 00:00:40,300
TO PARKINSON'S DISEASE,

14
00:00:40,300 --> 00:00:42,260
BIOENGINEERED LUNG
TISSUE AND MORE.

15
00:00:42,780 --> 00:00:46,300
DRAGON IS SCHEDULED TO DEPART
SPACE STATION IN MID-SEPTEMBER,

16
00:00:46,300 --> 00:00:49,976
RETURNING MORE THAN 3,300
POUNDS OF SCIENCE, HARDWARE,

17
00:00:49,976 --> 00:00:51,136
AND CREW SUPPLIES TO EARTH.

18
00:00:52,246 --> 00:00:55,056
TWO COSMONAUTS VENTURED OUTSIDE
THE SPACE STATION THIS WEEK.

19
00:00:55,796 --> 00:00:57,286
COSMONAUTS FYODOR YURCHIKHIN

20
00:00:57,286 --> 00:01:00,300
AND SERGEY RYAZANSKIY DONNED
THEIR RUSSIAN ORLAN SPACESUITS

21
00:01:00,300 --> 00:01:02,296
FOR SEVERAL HOURS OF

SCIENCE AND MAINTENANCE

- 22
00:01:02,300 --> 00:01:03,420
IN THE VACUUM OF SPACE.
- 23
00:01:03,940 --> 00:01:05,596
A HIGHLIGHT OF THE
SPACEWALK OCCURRED
- 24
00:01:05,600 --> 00:01:08,700
WHEN SERGEY MANUALLY
DEPLOYED FIVE NANOSATELLITES,
- 25
00:01:08,700 --> 00:01:11,720
INCLUDING THE FIRST 3D PRINTED
CUBESAT, INTO EARTH ORBIT.
- 26
00:01:12,760 --> 00:01:15,920
ON AUGUST TWENTY FIRST EVERYONE
IN NORTH AMERICA WILL BE TREATED
- 27
00:01:15,920 --> 00:01:18,000
WITH AT LEAST A PARTIAL
SOLAR ECLIPSE,
- 28
00:01:18,000 --> 00:01:20,480
WITH FOURTEEN STATES
SEEING A TOTAL ECLIPSE.
- 29
00:01:20,980 --> 00:01:24,020
BUT SIX LUCKY HUMANS WILL
GET TO SEE IT FROM SPACE.
- 30
00:01:24,840 --> 00:01:28,040
ASTRONAUT AND PHOTOGRAPHY LOVER
RANDY BRESNIK TOOK SOME TIME
- 31
00:01:28,046 --> 00:01:30,486
TO DISCUSS CAPTURING THE
ECLIPSE FROM SPACE STATION

32

00:01:30,486 --> 00:01:32,186

AND WHAT HE'S LOOKING
FORWARD TO.

33

00:01:32,186 --> 00:01:34,906

DURING A FACEBOOK LIVE ON
THE SPACE STATION ACCOUNT

34

00:01:34,906 --> 00:01:38,276

ON AUGUST 11, HE TOOK QUESTIONS
ABOUT HOW THE CREW IS PREPARING

35

00:01:38,276 --> 00:01:39,546

FOR THE CELESTIAL SHOW.

36

00:01:40,116 --> 00:01:42,566

"We get three different
looks at the eclipse.

37

00:01:42,856 --> 00:01:44,686

The first time will be
just of the West Coast,

38

00:01:44,686 --> 00:01:48,856

we'll actually kind of cross the
path of the sun, and we'll have

39

00:01:48,860 --> 00:01:51,320

about a 44 percent eclipse,

40

00:01:51,320 --> 00:01:52,660

looking up from the
Space Station.

41

00:01:52,940 --> 00:01:57,340

The second pass, we'll be north
of about Lake Huron in Canada

42

00:01:57,340 --> 00:01:59,976

when we're able to see
the Umbra, or the shadow

43

00:01:59,976 --> 00:02:03,446

of the eclipse actually
on the Earth.

44

00:02:03,916 --> 00:02:06,766

And then the third pass is
actually just off the East

45

00:02:06,766 --> 00:02:08,640

Coast, we'll come
around one more time,

46

00:02:08,640 --> 00:02:11,400

and from the station side see
about an 85 percent eclipse

47

00:02:11,406 --> 00:02:12,786

of the sun looking
up, so we should able

48

00:02:12,786 --> 00:02:16,020

to get a really deep
photos with our filters

49

00:02:16,020 --> 00:02:19,120

of the sun being
occluded by the moon."

50

00:02:19,900 --> 00:02:24,040

MAKE SURE TO GO BACK IN GIVE
IT A WATCH AT FACEBOOK.COM/ISS

51

00:02:24,040 --> 00:02:24,860

IN CASE YOU MISSED IT.

52

00:02:25,360 --> 00:02:27,160

YOU CAN FOLLOW NASA'S
ECLIPSE COVERAGE

53

00:02:27,160 --> 00:02:31,720
ON MONDAY AUGUST TWENTY
FIRST AT NASA.GOV/ECLIPSELIVE

54

00:02:31,720 --> 00:02:35,640
AND ON SOCIAL MEDIA WITH
THE HASHTAG ECLIPSE2017.

55

00:02:36,080 --> 00:02:38,340
KEEP SENDING YOUR
QUESTIONS USING THE HASHTAG