



1
00:00:14,880 --> 00:00:20,070
standing by now uh the window now open

2
00:00:20,080 --> 00:00:25,670
be waiting for a call down from the crew

3
00:00:33,510 --> 00:00:28,550
houston station on two at 11 40 we will

4
00:00:38,310 --> 00:00:33,520
initiate the rhc release command

5
00:00:43,990 --> 00:00:39,590
the team here in mission control

6
00:00:45,670 --> 00:00:44,000
reporting uh release is in progress

7
00:00:49,750 --> 00:00:45,680
should be seeing that separation very

8
00:00:53,670 --> 00:00:52,150
so dan the snares are now open first

9
00:00:56,310 --> 00:00:53,680
they had to release latches there's

10
00:00:57,670 --> 00:00:56,320
actually sort of extra latches that give

11
00:00:59,510 --> 00:00:57,680
power and data

12
00:01:00,790 --> 00:00:59,520
between the cygnus and the space station

13
00:01:01,910 --> 00:01:00,800

those are released first and then the

14

00:01:03,990 --> 00:01:01,920

snares

15

00:01:07,350 --> 00:01:04,000

so it's officially free

16

00:01:09,510 --> 00:01:07,360

and the crew will back the arm away

17

00:01:13,109 --> 00:01:09,520

so with those snares release and it free

18

00:01:14,870 --> 00:01:13,119

that uh official time coming in at 5 41

19

00:01:16,390 --> 00:01:14,880

a.m central time

20

00:01:17,830 --> 00:01:16,400

while the international space station's

21

00:01:19,910 --> 00:01:17,840

260

22

00:01:20,789 --> 00:01:19,920

statute miles over the southern atlantic

23

00:01:23,429 --> 00:01:20,799

ocean

24

00:01:30,950 --> 00:01:23,439

just off the south eastern coast of

25

00:01:35,190 --> 00:01:32,789

so we'll now wait a few moments then

26

00:01:37,990 --> 00:01:35,200

we'll begin to see the station's robotic

27

00:01:39,910 --> 00:01:38,000

arm back away from cygnus there you go

28

00:01:47,910 --> 00:01:39,920

you can see it backing away from that

29

00:01:52,149 --> 00:01:49,270

it's a good view you can actually see

30

00:01:53,590 --> 00:01:52,159

the the cygnus is uh still but the arm

31

00:01:55,910 --> 00:01:53,600

is actually moving back it looks like

32

00:01:58,469 --> 00:01:55,920

the cygnus is moving but it's the arm

33

00:02:12,550 --> 00:01:58,479

retreating from the cygnus

34

00:02:12,560 --> 00:02:16,470

they're about two feet away now

35

00:02:18,949 --> 00:02:17,750

they're zooming out so i can see the

36

00:02:21,190 --> 00:02:18,959

bigger picture now that they're not

37

00:02:23,190 --> 00:02:21,200

attached to the cygnus

38

00:02:25,750 --> 00:02:23,200

so from this angle we can see a little

39

00:02:27,670 --> 00:02:25,760

bit better on the arm backing away from

40

00:02:28,470 --> 00:02:27,680

cygnus signatures kind of in free drift

41

00:02:29,910 --> 00:02:28,480

there

42

00:02:32,309 --> 00:02:29,920

as it has been released again that

43

00:02:34,150 --> 00:02:32,319

happening just two minutes ago at 5 41

44

00:02:35,670 --> 00:02:34,160

a.m central time

45

00:02:37,270 --> 00:02:35,680

and keep an eye on this picture because

46

00:02:39,509 --> 00:02:37,280

the cygnus now that it's free of the arm

47

00:02:41,430 --> 00:02:39,519

will actually move out quite quickly

48

00:02:43,110 --> 00:02:41,440

away from the space station but this

49

00:02:45,509 --> 00:02:43,120

picture really does give you that that

50

00:02:48,150 --> 00:02:45,519

feeling of both vehicles flying in space

51

00:02:50,150 --> 00:02:48,160
at 17 500 miles an hour

52

00:02:52,229 --> 00:02:50,160
again it's the arm backing away from the

53

00:02:53,910 --> 00:02:52,239
cygnus the cygnus is still

54

00:02:58,229 --> 00:02:53,920
and then it will fire its jets and it

55

00:03:04,710 --> 00:03:01,509
and cygnus right now loaded up with

56

00:03:06,070 --> 00:03:04,720
disposable items and trash for disposal

57

00:03:07,190 --> 00:03:06,080
once it burns up in the earth's

58

00:03:08,470 --> 00:03:07,200
atmosphere

59

00:03:10,229 --> 00:03:08,480
katie like you're saying it'll do a

60

00:03:12,070 --> 00:03:10,239
couple of burns to kind of separate

61

00:03:13,110 --> 00:03:12,080
itself from the international space

62

00:03:14,949 --> 00:03:13,120
station

63

00:03:16,550 --> 00:03:14,959

that's setting up for its final deorbit

64

00:03:17,509 --> 00:03:16,560

burns which will take place tomorrow

65

00:03:19,509 --> 00:03:17,519

morning

66

00:03:21,670 --> 00:03:19,519

two burns which will eventually send it

67

00:03:23,990 --> 00:03:21,680

through that destructive entry burning

68

00:03:26,550 --> 00:03:24,000

up over the pacific ocean tomorrow on

69

00:03:27,750 --> 00:03:26,560

wednesday at about 12 20 p.m central

70

00:03:28,710 --> 00:03:27,760

time

71

00:03:30,550 --> 00:03:28,720

and the

72

00:03:33,270 --> 00:03:30,560

crew actually sends the command to the

73

00:03:36,229 --> 00:03:33,280

cygnus to deorbit in this case the

74

00:03:38,789 --> 00:03:36,239

command is called abort

75

00:03:46,309 --> 00:03:38,799

but it is actually a planned de-orbit

76
00:03:46,319 --> 00:03:56,390
and the import burns in progress

77
00:04:00,869 --> 00:03:58,789
just like you said cygnus now moving

78
00:04:03,030 --> 00:04:00,879
at a much faster rate with that abort

79
00:04:05,270 --> 00:04:03,040
burning progress robotic signal support

80
00:04:15,429 --> 00:04:05,280
commanded

81
00:04:19,509 --> 00:04:17,749
houston copies uh the cygnus maneuver

82
00:04:21,349 --> 00:04:19,519
departure maneuvers in progress continue

83
00:04:33,990 --> 00:04:21,359
to moderate departure that steps two

84
00:04:39,189 --> 00:04:35,710
okay copy

85
00:04:44,230 --> 00:04:39,199
1.602 cygnus departure monitor 2 through

86
00:04:44,240 --> 00:04:48,150
good reback

87
00:04:51,749 --> 00:04:50,070
and then this is a great shot of the

88
00:04:53,909 --> 00:04:51,759

cygnus going away so this is from the

89

00:04:55,030 --> 00:04:53,919

robotic arm camera and it looks like

90

00:04:57,189 --> 00:04:55,040

it's pointing straight at the earth but

91

00:04:59,030 --> 00:04:57,199

of course it's going to be in orbit and

92

00:05:00,710 --> 00:04:59,040

deorbit uh

93

00:05:02,550 --> 00:05:00,720

probably about halfway around the earth

94

00:05:04,310 --> 00:05:02,560

it's firing its engine sort of into the

95

00:05:05,990 --> 00:05:04,320

wind so to speak to slow down just a

96

00:05:08,310 --> 00:05:06,000

little and that little bit is enough to