
Canada

1
00:00:19,189 --> 00:00:17,109
system for step book four

2
00:00:21,670 --> 00:00:19,199
and you can see uh the same display

3
00:00:23,910 --> 00:00:21,680
being viewed in the cupola by butch

4
00:00:26,390 --> 00:00:23,920
wilmore and samantha christa ferretti

5
00:00:30,070 --> 00:00:26,400
who are operating uh the station's

6
00:00:31,750 --> 00:00:30,080
robotic arm the 57-foot long canadarm2

7
00:00:33,910 --> 00:00:31,760
that will reach out and grapple the

8
00:00:36,709 --> 00:00:33,920
grapple fixture on dragon a short time

9
00:00:39,430 --> 00:00:36,719
from now a dragon arriving at the final

10
00:00:42,310 --> 00:00:39,440
hold point at 30 meters or 98 feet away

11
00:00:58,389 --> 00:00:42,320
from the station at 3 56 a.m central

12
00:01:02,869 --> 00:01:00,549
the international space station and

13
00:01:06,630 --> 00:01:02,879

dragon currently moving from southwest

14
00:01:08,789 --> 00:01:06,640
to northeast across the pacific ocean

15
00:01:11,109 --> 00:01:08,799
will across the west coast of mexico

16
00:01:12,469 --> 00:01:11,119
north of guadalajara a short time from

17
00:01:15,590 --> 00:01:12,479
now

18
00:01:19,109 --> 00:01:15,600
again the grapple of dragon expected to

19
00:01:21,350 --> 00:01:19,119
occur some 35 minutes ahead of schedule

20
00:01:23,830 --> 00:01:21,360
at a time that would be no earlier than

21
00:01:26,070 --> 00:01:23,840
one minute after sunrise to provide the

22
00:01:28,789 --> 00:01:26,080
appropriate lighting for station

23
00:01:31,190 --> 00:01:28,799
commander butch wilmore who is the prime

24
00:01:33,270 --> 00:01:31,200
crew member for the grapple of dragon

25
00:01:35,270 --> 00:01:33,280
operating from the robotics workstation

26
00:01:37,190 --> 00:01:35,280
inside the cupola of the international

27
00:01:39,429 --> 00:01:37,200
space station backed up by european

28
00:01:47,030 --> 00:01:39,439
space agency flight engineer samantha

29
00:01:51,350 --> 00:01:49,590
a good view of the grapple fixture

30
00:01:52,630 --> 00:01:51,360
on the spacex

31
00:01:54,710 --> 00:01:52,640
cargo ship

32
00:01:56,149 --> 00:01:54,720
of the top portion of which

33
00:01:59,670 --> 00:01:56,159
is the only

34
00:02:01,350 --> 00:01:59,680
cargo vehicle that returns intact with

35
00:02:03,990 --> 00:02:01,360
returning cargo and scientific

36
00:02:06,550 --> 00:02:04,000
experiments of all of the international

37
00:02:08,389 --> 00:02:06,560
fleet of resupply vehicles

38
00:02:30,630 --> 00:02:08,399

that grapple fixture directly underneath

39
00:02:35,430 --> 00:02:33,030
dragon has arrived at its capture point

40
00:02:45,990 --> 00:02:35,440
according to flight controllers at

41
00:02:51,190 --> 00:02:48,869
station houston on two dragon is holding

42
00:02:57,910 --> 00:02:51,200
at the capture point please perform step

43
00:02:57,920 --> 00:03:02,710
this transition we copy and work

44
00:03:07,589 --> 00:03:05,910
that uh exchange between randy bresnik

45
00:03:09,270 --> 00:03:07,599
the spacecraft communicator here in

46
00:03:11,589 --> 00:03:09,280
mission control and uh samantha

47
00:03:14,229 --> 00:03:11,599
christopher reddy indicating that the

48
00:03:16,869 --> 00:03:14,239
procedures now will be put in place to

49
00:03:19,910 --> 00:03:16,879
begin the movement of the station's

50
00:03:22,869 --> 00:03:19,920
robotic arm the canadarm2

51
00:03:25,750 --> 00:03:22,879
towards the grapple fixture on dragon

52
00:03:28,710 --> 00:03:25,760
with capture anticipated no earlier than

53
00:03:32,869 --> 00:03:28,720
one minute after sunrise which would be

54
00:03:33,910 --> 00:03:32,879
approximately 4 39 a.m central time 5 39

55
00:03:35,910 --> 00:03:33,920
eastern

56
00:03:37,910 --> 00:03:35,920
running well ahead of schedule some 35

57
00:03:39,589 --> 00:03:37,920
minutes or so ahead of schedule

58
00:03:42,309 --> 00:03:39,599
since everything has been going so

59
00:03:44,949 --> 00:03:42,319
smoothly with the rendezvous and all of

60
00:03:47,990 --> 00:03:44,959
dragon systems and the crew being eager

61
00:03:57,350 --> 00:03:48,000
to grab onto dragon and

62
00:04:03,429 --> 00:03:59,910
dragon has now disabled its thrusters in

63
00:04:04,789 --> 00:04:03,439

the so-called free drift orientation

64
00:04:07,110 --> 00:04:04,799
so that uh

65
00:04:09,589 --> 00:04:07,120
no inadvertent thruster firings will

66
00:04:11,750 --> 00:04:09,599
perturbate the grapple of dragon by the

67
00:04:13,830 --> 00:04:11,760
robotic arm that is now been set in

68
00:04:15,750 --> 00:04:13,840
motion by station commander butch

69
00:04:17,830 --> 00:04:15,760
wilmore operating from the robotics

70
00:05:05,110 --> 00:04:17,840
workstation in the cupola of the

71
00:05:05,120 --> 00:05:20,070
one meter now

72
00:05:33,029 --> 00:05:21,990
the end effector is now over the grapple

73
00:05:39,749 --> 00:05:36,550
and we have grapple at 4 54 a.m central

74
00:05:43,469 --> 00:05:39,759
time 5 54 a.m eastern time

75
00:05:50,950 --> 00:05:47,830
262 statute miles over the mediterranean

76
00:05:53,189 --> 00:05:50,960
so once again to recap dragon now part

77
00:05:56,070 --> 00:05:53,199
of the international space station it

78
00:06:00,390 --> 00:05:58,230
housed at the earth-facing port of the

79
00:06:03,749 --> 00:06:00,400
harmony module of the station for the

80
00:06:05,909 --> 00:06:03,759
next 29 days until it is unbolted

81
00:06:08,309 --> 00:06:05,919
unbirthed and released on tuesday

82
00:06:09,830 --> 00:06:08,319
february 10th to begin the journey back

83
00:06:11,830 --> 00:06:09,840
to earth that will culminate with a

84
00:06:14,230 --> 00:06:11,840
return of supplies

85
00:06:16,550 --> 00:06:14,240
and critical scientific experiments with

86
00:06:19,029 --> 00:06:16,560
a splashdown in the pacific ocean