



1
00:00:06,710 --> 00:00:04,550
good view of discovery here still 73

2
00:00:10,390 --> 00:00:06,720
miles away from kennedy space center

3
00:01:14,550 --> 00:00:13,030
traveling 1700 miles per hour

4
00:01:19,749 --> 00:01:17,350
discovery houston you are on energy

5
00:01:21,109 --> 00:01:19,759
approaching the hack no changes to winds

6
00:01:36,069 --> 00:01:21,119
and weather

7
00:01:39,429 --> 00:01:37,590
discovery will soon be approaching the

8
00:01:41,190 --> 00:01:39,439
imaginary circle leading

9
00:01:43,749 --> 00:01:41,200
towards the runway that's created by the

10
00:01:45,270 --> 00:01:43,759
microwave scan beam landing system

11
00:01:46,870 --> 00:01:45,280
that allows the commander and pilot to

12
00:01:48,950 --> 00:01:46,880
guide the vehicle as it makes its final

13
00:01:50,069 --> 00:01:48,960

approach to runway 33 at kennedy space

14

00:01:51,910 --> 00:01:50,079

center

15

00:01:53,510 --> 00:01:51,920

there the commander will take control

16

00:01:56,389 --> 00:01:53,520

the shuttle steering once its speed is

17

00:01:57,109 --> 00:01:56,399

dropped below mach 1. it's at 1.2 right

18

00:01:58,870 --> 00:01:57,119

now

19

00:02:01,109 --> 00:01:58,880

mach 1 being the speed of sound

20

00:02:05,109 --> 00:02:01,119

discovery is currently traveling

21

00:02:09,830 --> 00:02:06,630

68

22

00:02:18,470 --> 00:02:09,840

miles away from kennedy space center and

23

00:02:22,710 --> 00:02:19,990

discovery will be making its left hand

24

00:02:36,390 --> 00:02:22,720

overhead turn of 200 degrees before it's

25

00:02:42,070 --> 00:02:38,949

and commander alan poindexter is now at

26
00:02:43,270 --> 00:02:42,080
the controls of space shuttle discovery

27
00:02:45,589 --> 00:02:43,280
as its

28
00:03:12,309 --> 00:02:45,599
reach subsonic sounds

29
00:03:12,319 --> 00:03:25,350
those sonic booms announcing

30
00:03:28,630 --> 00:03:27,110
sonic boom's announcing discovery's

31
00:03:30,550 --> 00:03:28,640
arrival it's now

32
00:03:32,229 --> 00:03:30,560
just 68 miles away from kennedy space

33
00:03:35,190 --> 00:03:32,239
center

34
00:03:38,390 --> 00:03:35,200
27 000 feet in altitude and

35
00:03:41,910 --> 00:03:38,400
traveling 530 miles per hour discovery

36
00:03:41,920 --> 00:03:47,350
on at the 180.

37
00:03:50,869 --> 00:03:49,030
pilot jim dunton now taking over

38
00:03:52,550 --> 00:03:50,879

controls of the shuttle for a moment

39

00:03:54,789 --> 00:03:52,560

that call from capcom rick sterko

40

00:03:56,550 --> 00:03:54,799

indicates the shuttle has 180 degrees to

41

00:03:59,270 --> 00:03:56,560

go and its turn around

42

00:04:00,869 --> 00:03:59,280

towards runway 33.

43

00:04:06,949 --> 00:04:00,879

all continuing to look good on board

44

00:04:09,670 --> 00:04:08,630

68 miles to go

45

00:04:11,990 --> 00:04:09,680

currently

46

00:04:13,990 --> 00:04:12,000

3 miles in altitude

47

00:04:20,310 --> 00:04:14,000

and traveling 420 miles per hour

48

00:04:25,909 --> 00:04:22,550

and commander alan poindexter now back

49

00:04:50,790 --> 00:04:25,919

in control space shuttle discovery

50

00:04:50,800 --> 00:04:56,150

roger

51
00:04:59,670 --> 00:04:57,430
less than a minute and a half until

52
00:05:01,749 --> 00:04:59,680
touchdown discovery is now descending at

53
00:05:04,629 --> 00:05:01,759
a rate 20 times higher and seven times

54
00:05:26,310 --> 00:05:04,639
steeper than what a commercial airline

55
00:05:29,909 --> 00:05:28,310
one minute now touchdown discovery's

56
00:05:39,670 --> 00:05:29,919
landing gear will be locked down and

57
00:05:45,189 --> 00:05:43,430
it's currently 3 500 feet

58
00:05:47,510 --> 00:05:45,199
and

59
00:05:53,350 --> 00:05:47,520
traveling at a rate of 370 miles per

60
00:05:53,360 --> 00:06:14,870
30 seconds until touchdown

61
00:06:37,749 --> 00:06:17,270
main gear

62
00:06:37,759 --> 00:06:42,710
nose gear touchdown

63
00:06:47,510 --> 00:06:44,950

that brings an end to the sts-131

64

00:06:49,589 --> 00:06:47,520

mission the 131st space shuttle flight

65

00:06:55,189 --> 00:06:49,599

and the 33rd to the international space

66

00:07:00,390 --> 00:06:57,909

discovery left florida on april 5th with

67

00:07:02,629 --> 00:07:00,400

7.6 tons of new science equipment and

68

00:07:04,150 --> 00:07:02,639

spare parts including equipment that

69

00:07:06,469 --> 00:07:04,160

should improve the station's capability

70

00:07:08,070 --> 00:07:06,479

for earth observation work equipment

71

00:07:10,070 --> 00:07:08,080

that could help astronauts avoid muscle

72

00:07:11,909 --> 00:07:10,080

atrophy and scientists better

73

00:07:13,749 --> 00:07:11,919

understand muscle atrophy and equipment

74

00:07:17,909 --> 00:07:13,759

that will help keep the station systems

75

00:07:21,589 --> 00:07:19,749

discovery brings on with it the last

76
00:07:24,070 --> 00:07:21,599
large return load from the station two

77
00:07:27,189 --> 00:07:24,080
tons of used equipment

78
00:07:29,350 --> 00:07:27,199
roger wheel stop discovery welcome home

79
00:07:31,589 --> 00:07:29,360
dex congratulations to you and the crew

80
00:07:33,189 --> 00:07:31,599
on an outstanding mission

81
00:07:35,830 --> 00:07:33,199
there are no immediate post landing

82
00:07:39,110 --> 00:07:35,840
deltas we'll meet you on page 5-3 of the

83
00:07:42,790 --> 00:07:40,710
here's the discovery thanks for those

84
00:07:44,710 --> 00:07:42,800
words cj it was a great mission we

85
00:07:47,589 --> 00:07:44,720
enjoyed it we enjoyed working with you

86
00:07:48,950 --> 00:07:47,599
and all the teams in mission control

87
00:07:51,189 --> 00:07:48,960
and we're glad that the international