



1  
00:00:20,630 --> 00:00:06,309  
30 seconds now left until discovery is

2  
00:00:24,550 --> 00:00:23,269  
houston and station discovery physical

3  
00:00:27,589 --> 00:00:24,560  
separation

4  
00:00:33,670 --> 00:00:27,599  
houston copies

5  
00:00:36,389 --> 00:00:35,030  
lunch is connecting space shuttle

6  
00:00:37,990 --> 00:00:36,399  
discovery to the international space

7  
00:00:39,350 --> 00:00:38,000  
station of let go

8  
00:00:40,470 --> 00:00:39,360  
and springs in that mechanism are

9  
00:00:42,150 --> 00:00:40,480  
pushing the shuttle away from the

10  
00:00:44,389 --> 00:00:42,160  
station marking the end of the docked

11  
00:00:47,510 --> 00:00:44,399  
portion of the sts-130

12  
00:00:48,869 --> 00:00:47,520  
mission at 7 52 a.m central time

13  
00:00:50,950 --> 00:00:48,879

12 days

14

00:00:52,869 --> 00:00:50,960

2 hours and 31 minutes into discovery's

15

00:01:00,630 --> 00:00:52,879

mission

16

00:01:04,789 --> 00:01:02,150

built a link to mark discovery's

17

00:01:07,109 --> 00:01:04,799

departure shuttle and station are 217

18

00:01:08,950 --> 00:01:07,119

miles above new guinea the shuttle spent

19

00:01:10,630 --> 00:01:08,960

a total of 10 days

20

00:01:16,550 --> 00:01:10,640

five hours and eight minutes docked to

21

00:01:19,830 --> 00:01:18,550

this again is sequential still video

22

00:01:21,590 --> 00:01:19,840

being sent down through the shuttle's

23

00:01:23,670 --> 00:01:21,600

s-band antenna

24

00:01:24,950 --> 00:01:23,680

as a video downlink isn't currently

25

00:01:27,830 --> 00:01:24,960

available

26  
00:01:29,910 --> 00:01:27,840  
discoveries leaving behind 7.6 tons of

27  
00:01:32,230 --> 00:01:29,920  
cargo and equipment brought in up in the

28  
00:01:34,069 --> 00:01:32,240  
shuttle's mid deck and cargo bay

29  
00:01:35,990 --> 00:01:34,079  
including four new science racks that'll

30  
00:01:37,910 --> 00:01:36,000  
improve the station's earth observation

31  
00:01:38,830 --> 00:01:37,920  
capabilities and help astronauts fight

32  
00:01:41,190 --> 00:01:38,840  
muscle

33  
00:01:42,389 --> 00:01:41,200  
astrophysics and also a new ammonia tank

34  
00:01:44,789 --> 00:01:42,399  
assembly that will help keep the

35  
00:01:47,749 --> 00:01:44,799  
station's systems cool

36  
00:01:50,310 --> 00:01:47,759  
taking home with it another 3.3 tons of

37  
00:01:51,910 --> 00:01:50,320  
used equipment and scientific samples

38  
00:01:53,350 --> 00:01:51,920

clearing out some space on the station

39

00:01:59,190 --> 00:01:53,360

which has been filling up steadily over

40

00:02:03,910 --> 00:02:00,870

discovery is scheduled to return to the

41

00:02:05,510 --> 00:02:03,920

station one more time for the sts-133

42

00:02:06,870 --> 00:02:05,520

mission the final shuttle mission

43

00:02:08,389 --> 00:02:06,880

actually currently scheduled for

44

00:02:10,309 --> 00:02:08,399

september

45

00:02:12,070 --> 00:02:10,319

control thanks you and your crew were

46

00:02:13,750 --> 00:02:12,080

excellent guests we loved having you

47

00:02:16,710 --> 00:02:13,760

here you helped us leave the station in

48

00:02:18,630 --> 00:02:16,720

a better place than when you got here

49

00:02:20,630 --> 00:02:18,640

come back soon

50

00:02:22,470 --> 00:02:20,640

thanks tj we enjoyed every minute of it

51

00:02:23,990 --> 00:02:22,480

thanks for the great hospitality

52

00:02:29,270 --> 00:02:24,000

we'll talk to you soon

53

00:02:33,030 --> 00:02:31,190

flight engineer tj creamer giving one

54

00:02:35,670 --> 00:02:33,040

more goodbye on behalf of the station's

55

00:02:37,589 --> 00:02:35,680

crew to space shuttle of the discovery

56

00:02:39,589 --> 00:02:37,599

in particular commander alan poindexter

57

00:02:41,350 --> 00:02:39,599

talking there

58

00:02:42,949 --> 00:02:41,360

and as he mentioned that not too much

59

00:02:45,190 --> 00:02:42,959

longer before discovery will be back

60

00:02:47,030 --> 00:02:45,200

it'll be bringing the leonardo module

61

00:02:49,190 --> 00:02:47,040

again that's currently inside the

62

00:02:51,750 --> 00:02:49,200

shuttle's cargo bay coming back with it

63

00:02:53,670 --> 00:02:51,760

uh but by then it will have been

64

00:02:56,150 --> 00:02:53,680  
converted from its moving band form of a

65

00:02:58,390 --> 00:02:56,160  
multi-purpose logistics module into a

66

00:02:59,670 --> 00:02:58,400  
permanent multi-purpose module and we'll

67

00:03:01,270 --> 00:02:59,680  
be staying at the station after that

68

00:03:29,430 --> 00:03:01,280  
mission to provide the station crew with

69

00:03:34,229 --> 00:03:32,070  
space shuttle discovery now 25 feet away

70

00:03:36,070 --> 00:03:34,239  
from the international space station

71

00:03:38,149 --> 00:03:36,080  
this view through the

72

00:03:39,589 --> 00:03:38,159  
hatch

73

00:03:41,030 --> 00:03:39,599  
the window in the

74

00:03:42,630 --> 00:03:41,040  
the shuttle's

75

00:03:44,550 --> 00:03:42,640  
orbiter docking system

76

00:03:45,750 --> 00:03:44,560

looking into the pressurized mating

77

00:03:47,589 --> 00:03:45,760

adapter

78

00:04:32,550 --> 00:03:47,599

on the harmony node where it has spent

79

00:04:36,390 --> 00:04:34,629

discovery houston i have your r-pop

80

00:04:44,550 --> 00:04:36,400

numbers if you're ready to copy for

81

00:04:48,390 --> 00:04:45,670

minus

82

00:04:49,270 --> 00:04:48,400

zero decimal eight

83

00:04:51,670 --> 00:04:49,280

yaw

84

00:04:52,629 --> 00:04:51,680

one decimal one

85

00:04:56,550 --> 00:04:52,639

row

86

00:05:25,029 --> 00:04:56,560

minus zero decimal eight

87

00:05:28,870 --> 00:05:26,790

let's go right now 50 feet away from the

88

00:05:30,950 --> 00:05:28,880

international space station continuing

89

00:05:33,029 --> 00:05:30,960  
to move away aiming for a point

90

00:05:34,629 --> 00:05:33,039  
400 feet away from in front of the

91

00:05:37,430 --> 00:05:34,639  
station

92

00:07:37,029 --> 00:05:37,440  
where it will begin the fly around at 8

93

00:07:41,830 --> 00:07:39,830  
continuing to get this look through the

94

00:07:45,830 --> 00:07:41,840  
space shuttle's orbiter docking system

95

00:07:52,790 --> 00:07:50,309  
in block 8 alpha step 2 is not required

96

00:08:26,550 --> 00:07:52,800  
we will not be performing 10 alpha today

97

00:08:31,909 --> 00:08:29,830  
graphical depiction of the shuttles

98

00:08:33,110 --> 00:08:31,919  
move away from the station

99

00:08:35,029 --> 00:08:33,120  
the

100

00:08:36,630 --> 00:08:35,039  
bottom number under range tells you how

101  
00:08:40,230 --> 00:08:36,640  
far away the shuttle has moved from the

102  
00:08:42,709 --> 00:08:40,240  
station according to

103  
00:08:45,590 --> 00:08:42,719  
one of the sensors it uses to dodge that

104  
00:08:49,750 --> 00:08:45,600  
the trajectory control sensor now just

105  
00:08:54,870 --> 00:08:52,310  
shuttle and station are 216

106  
00:09:19,350 --> 00:08:54,880  
miles above the pacific ocean heading

107  
00:09:19,360 --> 00:09:24,070  
on two starting step five

108  
00:09:24,080 --> 00:09:28,070  
2.813

109  
00:09:28,080 --> 00:11:24,470  
copy we're ready

110  
00:11:28,790 --> 00:11:26,870  
discoveries now

111  
00:11:30,630 --> 00:11:28,800  
150 feet away from the international

112  
00:11:32,949 --> 00:11:30,640  
space station moving

113  
00:11:36,150 --> 00:11:32,959

uh less than two tenths of a mile faster

114

00:11:37,509 --> 00:11:36,160

than the space station so

115

00:11:39,590 --> 00:11:37,519

gaining distance between the two

116

00:11:40,790 --> 00:11:39,600

vehicles moving to a point

117

00:11:42,230 --> 00:11:40,800

400

118

00:11:43,750 --> 00:11:42,240

feet away from the international space

119

00:11:45,430 --> 00:11:43,760

station when

120

00:14:22,389 --> 00:11:45,440

pilot jim dunton will then take controls

121

00:14:26,150 --> 00:14:24,470

discovery now 200 feet in front of the

122

00:14:28,230 --> 00:14:26,160

international space station continuing

123

00:14:30,710 --> 00:14:28,240

to move away

124

00:14:32,790 --> 00:14:30,720

at a rate of about two tenths of a mile

125

00:14:35,269 --> 00:14:32,800

per hour

