



1
00:00:57,630 --> 00:00:54,509
good morning we begin our live coverage

2
00:01:00,029 --> 00:00:57,640
on NASA television of mission STS 85

3
00:01:02,340 --> 00:01:00,039
here at NASA's Jonathan Adi Space Center

4
00:01:05,490 --> 00:01:02,350
in five room three of the launch control

5
00:01:08,460 --> 00:01:05,500
center today NASA will embark on the

6
00:01:11,520 --> 00:01:08,470
86th space shuttle flight in its 16 year

7
00:01:13,560 --> 00:01:11,530
history of the shuttle program the near

8
00:01:15,420 --> 00:01:13,570
11-day mission features the deployment

9
00:01:17,270 --> 00:01:15,430
and retrieval of a satellite designed to

10
00:01:19,350 --> 00:01:17,280
study Earth's middle atmosphere and

11
00:01:20,609 --> 00:01:19,360
significant tests of hardware that could

12
00:01:35,810 --> 00:01:20,619
be used in the Assembly of the

13
00:01:42,930 --> 00:01:39,840

this is shuttle launch control we have

14

00:01:46,790 --> 00:01:42,940

the flight crew at their breakfast table

15

00:01:52,550 --> 00:01:46,800

we have payload commander Jan Davis

16

00:02:01,080 --> 00:01:56,400

and we have Bob Curbeam Shuttle rookie

17

00:02:03,420 --> 00:02:01,090

flying for the first time today and

18

00:02:07,410 --> 00:02:03,430

commander Curt brown making his fourth

19

00:02:11,340 --> 00:02:07,420

time and flight today first time is

20

00:02:16,199 --> 00:02:11,350

commander Kent roaming her two times

21

00:02:18,810 --> 00:02:16,209

shuttle veteran and we have Steven

22

00:02:23,520 --> 00:02:18,820

Robinson flying for the first time today

23

00:02:25,860 --> 00:02:23,530

and Canadian astronaut B Arnie trig

24

00:02:29,880 --> 00:02:25,870

misen also flying on the shuttle for the

25

00:02:32,100 --> 00:02:29,890

first time today crew has been awake now

26

00:02:34,920 --> 00:02:32,110

for just about half an hour getting

27

00:02:39,120 --> 00:02:34,930

ready for the first flight day on their

28

00:02:42,390 --> 00:02:39,130

upcoming mission who is ready to go they

29

00:02:44,490 --> 00:02:42,400

came to Florida Monday evening and have

30

00:02:45,990 --> 00:02:44,500

been at Kennedy Space Center preparing

31

00:03:47,339 --> 00:02:46,000

for the flight over the last couple of

32

00:03:52,920 --> 00:03:50,759

got commander Curt Brown who's just

33

00:03:54,869 --> 00:03:52,930

walked into the suit-up room by

34

00:03:58,619 --> 00:03:54,879

following the weather briefing this is

35

00:04:00,660 --> 00:03:58,629

his fourth flight and he has overall

36

00:04:02,369 --> 00:04:00,670

responsibility for commanding the flight

37

00:04:04,860 --> 00:04:02,379

this will be his first flight as

38

00:04:08,460 --> 00:04:04,870

commander he served as pilot of three

39
00:04:10,289 --> 00:04:08,470
previous missions on STS 92 and we have

40
00:04:13,199 --> 00:04:10,299
a pilot Kent Rominger

41
00:04:15,059 --> 00:04:13,209
as a pilot he will assist Brown at the

42
00:04:20,009 --> 00:04:15,069
flight controls this will be his third

43
00:04:23,610 --> 00:04:20,019
flight and his birthday today he's

44
00:04:25,770 --> 00:04:23,620
forty-one years old he will also be

45
00:04:27,689 --> 00:04:25,780
assisting a commander during the

46
00:04:30,240 --> 00:04:27,699
rendezvous and retrieval of the Christa

47
00:04:32,879 --> 00:04:30,250
spa's payload and will also be involved

48
00:04:37,170 --> 00:04:32,889
in several payloads including the solid

49
00:04:39,409 --> 00:04:37,180
surface combustion experiment we have

50
00:04:41,640 --> 00:04:39,419
Canadian astronaut B Arnie trig listen

51
00:04:49,290 --> 00:04:41,650
making his first flight on the shuttle

52
00:04:52,980 --> 00:04:49,300
today trick misen was born in Reykjavik

53
00:04:54,830 --> 00:04:52,990
Iceland we've got Jan Davis she's making

54
00:04:57,210 --> 00:04:54,840
her third flight today

55
00:04:59,640 --> 00:04:57,220
she's the payload commander with overall

56
00:05:01,770 --> 00:04:59,650
responsibility of servicing tasks she

57
00:05:03,390 --> 00:05:01,780
will operate the robot arm to deploy and

58
00:05:06,330 --> 00:05:03,400
retrieve the German Christa spa's

59
00:05:08,279 --> 00:05:06,340
payload she'll also be involved in the

60
00:05:11,850 --> 00:05:08,289
manipulator flight demonstration which

61
00:05:13,770 --> 00:05:11,860
is a small fine robot arm and we have

62
00:05:16,529 --> 00:05:13,780
mission specialist Robert Kirby making

63
00:05:18,089 --> 00:05:16,539

his first flight today on the shuttle he

64

00:05:19,740 --> 00:05:18,099

serves as flight engineer and will

65

00:05:22,680 --> 00:05:19,750

assist the commander and pilot with

66

00:05:25,260 --> 00:05:22,690

asset and reentry checklist and in

67

00:05:27,510 --> 00:05:25,270

monitoring all vehicle systems and we

68

00:05:29,760 --> 00:05:27,520

have mission specialist Stephen Robinson

69

00:05:32,159 --> 00:05:29,770

this will be his first flight he is the

70

00:05:34,710 --> 00:05:32,169

prime mission specialist for the Christa

71

00:05:37,080 --> 00:05:34,720

spa's payload and he will work with Dan

72

00:06:05,340 --> 00:05:37,090

Davis on with the robot arm activity and

73

00:06:10,480 --> 00:06:07,420

we're now looking at the final

74

00:06:15,900 --> 00:06:10,490

inspection team on the top of the mobile

75

00:06:20,080 --> 00:06:15,910

launcher platform this crew has

76

00:06:21,700 --> 00:06:20,090

binoculars and they perform photo

77

00:06:24,100 --> 00:06:21,710

documentation of the vehicle

78

00:06:27,159 --> 00:06:24,110

configuration and cryogenic surfaces

79

00:06:31,330 --> 00:06:27,169

they collect data with an infrared

80

00:06:33,939 --> 00:06:31,340

scanner they're looking at numerical

81

00:07:05,199 --> 00:06:33,949

data and they correlate it with infrared

82

00:07:05,209 --> 00:07:39,140

crews getting ready for a 10-day mission

83

00:07:39,150 --> 00:08:37,310

you

84

00:08:45,710 --> 00:08:44,630

that is done the CDR contract CDR

85

00:08:47,480 --> 00:08:45,720

Houston you're allowed and cleared the

86

00:08:57,050 --> 00:08:47,490

one at hurt we see up close and personal

87

00:08:59,180 --> 00:08:57,060

there good morning Donna now we see the

88

00:09:07,640 --> 00:08:59,190

birthday boy getting into his seat the

89

00:09:10,670 --> 00:09:07,650

pilot he's only gone two to two

90

00:09:12,530 --> 00:09:10,680

handrails one in the center of the near

91

00:09:15,200 --> 00:09:12,540

the windows and one on his right side

92

00:09:30,820 --> 00:09:15,210

and then as they hold his parachute he

93

00:10:29,290 --> 00:09:34,520

okey cdcl3 12 go ahead it's a sweet I

94

00:10:38,930 --> 00:10:33,860

that's crew member in Bob Curbeam in the

95

00:10:40,340 --> 00:10:38,940

ms2 seat here I'll give you step 5 70

96

00:10:41,900 --> 00:10:40,350

work those quads if you want they

97

00:10:44,360 --> 00:10:41,910

perform they still sell birds I'm

98

00:10:46,370 --> 00:10:44,370

channel one five three okay oh but I

99

00:11:11,110 --> 00:10:46,380

know as well who do you see there

100

00:11:14,870 --> 00:11:12,500

copy that

101
00:11:21,140 --> 00:11:14,880
range weather sluggish early Lucas take

102
00:11:24,020 --> 00:11:21,150
colostrum manager manager went out the

103
00:11:25,640 --> 00:11:24,030
MSP is not attractive anything and it

104
00:11:27,830 --> 00:11:25,650
looks like was open launcher clear to

105
00:11:32,570 --> 00:11:27,840
proceed with the launch counsel copy

106
00:11:34,370 --> 00:11:32,580
that and discovery looks like it is

107
00:11:36,860 --> 00:11:34,380
ready to go you guys have a great night

108
00:11:40,820 --> 00:11:36,870
and we'll see you back here

109
00:11:44,900 --> 00:11:40,830
I could totally sin in MPD or clearly

110
00:11:49,400 --> 00:11:44,910
long a profile test of the orbiters

111
00:11:51,020 --> 00:11:49,410
aerosurfaces has started the orbital

112
00:11:52,730 --> 00:11:51,030
flight control services are being moved

113
00:11:55,340 --> 00:11:52,740

through a pre-programmed pattern to

114

00:11:57,020 --> 00:11:55,350

verify they are ready for launch and the

115

00:12:02,110 --> 00:11:57,030

three main engines will begin with in

116

00:12:07,030 --> 00:12:04,510

and slicer close the lock your visors

117

00:12:08,350 --> 00:12:07,040

the mission 802 12 on behalf of the

118

00:12:10,690 --> 00:12:08,360

lunch thing good luck with your mission

119

00:12:15,850 --> 00:12:10,700

and Rommel happy birthday robot the

120

00:12:17,470 --> 00:12:15,860

lasers handle thanks for that birthday

121

00:12:21,010 --> 00:12:17,480

wish we'll be the two best candles I

122

00:12:22,720 --> 00:12:21,020

overhead and other copies Bajoran sitter

123

00:12:30,940 --> 00:12:22,730

to the 11th over

124

00:12:35,650 --> 00:12:30,950

EPL 8 we have a go for main engine start

125

00:12:38,140 --> 00:12:35,660

five four three two one

126

00:12:40,810 --> 00:12:38,150

booster ignition and liftoff of

127

00:12:49,810 --> 00:12:40,820

discovery on a mission to study planet

128

00:12:54,250 --> 00:12:52,720

Houston is now controlling the roll

129

00:12:56,290 --> 00:12:54,260

maneuver is complete with discovery is

130

00:13:06,720 --> 00:12:56,300

now in a heads-down wings level position

131

00:13:11,680 --> 00:13:08,830

all three main engines now throttling

132

00:13:13,570 --> 00:13:11,690

down to 67 percent of rated thrust as

133

00:13:15,220 --> 00:13:13,580

the orbiter passes through the area of

134

00:13:16,570 --> 00:13:15,230

maximum aerodynamic pressure on the

135

00:13:18,460 --> 00:13:16,580

vehicle in the lower regions of the

136

00:13:20,860 --> 00:13:18,470

Earth's atmosphere telemetry indicates

137

00:13:38,560 --> 00:13:20,870

all three auxiliary power units and fuel