

060

4

2

1
00:00:56,540 --> 00:00:54,259
from the Kennedy Space Center in Florida

2
00:01:00,290 --> 00:00:56,550
this is space shuttle Atlantis launch

3
00:01:03,349 --> 00:01:00,300
control the countdown for lunch of

4
00:01:05,630 --> 00:01:03,359
spatial de lentes on mission st s 84 is

5
00:01:08,450 --> 00:01:05,640
continuing on schedule tonight the

6
00:01:11,149 --> 00:01:08,460
window for launch of atlantis opens at

7
00:01:15,230 --> 00:01:11,159
about 40 7 a.m. eastern time tomorrow

8
00:01:17,840 --> 00:01:15,240
and extends for only seven minutes work

9
00:01:19,639 --> 00:01:17,850
at launch pad 39a as well as operations

10
00:01:22,149 --> 00:01:19,649
here in firing room three of the launch

11
00:01:24,469 --> 00:01:22,159
control center are continuing as planned

12
00:01:27,050 --> 00:01:24,479
just a short while ago the external tank

13
00:01:29,240 --> 00:01:27,060

was filled with over 500,000 gallons of

14

00:01:32,389 --> 00:01:29,250

liquid propellants and as tanking

15

00:01:33,859 --> 00:01:32,399

operations are now complete no technical

16

00:01:35,600 --> 00:01:33,869

concerns or issues are being addressed

17

00:01:38,029 --> 00:01:35,610

at this time and we anticipate an

18

00:01:39,440 --> 00:01:38,039

on-time liftoff of Atlantis and the

19

00:02:29,149 --> 00:01:39,450

seven-member crew from Kennedy Space

20

00:02:34,289 --> 00:02:31,649

and apparently our crew have been seated

21

00:02:36,500 --> 00:02:34,299

for their meal somewhat earlier than

22

00:02:38,610 --> 00:02:36,510

previously scheduled they are in the

23

00:02:40,890 --> 00:02:38,620

operations check-out building just

24

00:02:43,619 --> 00:02:40,900

having left their crew quarters they are

25

00:02:45,509 --> 00:02:43,629

seated for their final meal before being

26

00:02:48,240 --> 00:02:45,519

driven out to the launch pad they've

27

00:02:49,530 --> 00:02:48,250

been awake since about six pm today and

28

00:02:51,899 --> 00:02:49,540

all seven of them will be on the same

29

00:02:53,849 --> 00:02:51,909

schedule throughout this mission Elena

30

00:02:56,520 --> 00:02:53,859

Conda cope of course our Russian

31

00:03:00,119 --> 00:02:56,530

cosmonaut flying seated next to our

32

00:03:02,399 --> 00:03:00,129

shuttle commander Charlie Precourt all

33

00:03:04,890 --> 00:03:02,409

the crew again are are well trained this

34

00:03:06,770 --> 00:03:04,900

is our pilot Eileen Collins who is

35

00:03:08,819 --> 00:03:06,780

flying for the second time as pilot and

36

00:03:10,949 --> 00:03:08,829

rounding out the crew of course we have

37

00:03:13,890 --> 00:03:10,959

other mission specialists Carlos Noriega

38

00:03:16,199 --> 00:03:13,900

ed Lu and of course Michael Pfohl who we

39

00:03:19,020 --> 00:03:16,209

saw just a few seconds ago will be

40

00:03:22,410 --> 00:03:19,030

actually taken up and will remain on the

41

00:03:24,420 --> 00:03:22,420

MIR space station for four months until

42

00:04:14,220 --> 00:03:24,430

Atlantis again goes back to retreat him

43

00:04:14,230 --> 00:04:27,459

you

44

00:04:33,350 --> 00:04:31,520

our mission commander Charles Precourt

45

00:04:36,260 --> 00:04:33,360

is on his third flight having served his

46

00:04:39,140 --> 00:04:36,270

mission specialists of STS 55 and then

47

00:04:40,670 --> 00:04:39,150

his pilot of STS 71 that was the first

48

00:04:42,320 --> 00:04:40,680

space shuttle mission to dock with the

49

00:04:44,749 --> 00:04:42,330

Russian space station and now he'll

50

00:04:46,670 --> 00:04:44,759

serve as commander of this the sixth

51
00:04:51,279 --> 00:04:46,680
mission to dock with the space station

52
00:04:55,959 --> 00:04:51,289
Mir he is a colonel in the Air Force and

53
00:05:01,279 --> 00:04:55,969
next to him of course is our pilot

54
00:05:11,740 --> 00:05:01,289
Eileen Collins Edward Lou is preparing

55
00:05:15,520 --> 00:05:13,410
and on the other side of the room

56
00:05:18,130 --> 00:05:15,530
another one of our mission specialist

57
00:05:25,570 --> 00:05:18,140
preparing for his first flight Carlos

58
00:05:27,280 --> 00:05:25,580
Noriega Michael full this is a special

59
00:05:28,900 --> 00:05:27,290
mission for him he's flown three times

60
00:05:30,880 --> 00:05:28,910
before but on this particular flight of

61
00:05:34,690 --> 00:05:30,890
course he will be staying onboard the

62
00:05:37,120 --> 00:05:34,700
MIR space station and John Francois

63
00:05:43,570 --> 00:05:37,130

Claire voix is preparing for his flight

64

00:05:45,340 --> 00:05:43,580

today and Elena condo cova Russian

65

00:05:47,170 --> 00:05:45,350

cosmonaut making her first trip into

66

00:05:49,630 --> 00:05:47,180

space aboard the shuttle however she has

67

00:06:13,610 --> 00:05:49,640

spent nearly half a year in orbit aboard

68

00:06:18,060 --> 00:06:16,230

this is a remarkable shot of the moon

69

00:06:20,340 --> 00:06:18,070

from one of our long-range trackers you

70

00:06:22,260 --> 00:06:20,350

can see the kind of detail that our

71

00:06:35,310 --> 00:06:22,270

tracking cameras have this is a shot of

72

00:06:36,870 --> 00:06:35,320

moon craters of course again the crew

73

00:06:42,660 --> 00:06:36,880

waving and making the final goodbyes to

74

00:06:48,030 --> 00:06:45,270

mission commander Charlie Precourt with

75

00:06:50,730 --> 00:06:48,040

pilot Eileen Collins jean-francois fair

76
00:07:11,320 --> 00:06:50,740
warned Carlos Noriega head with new

77
00:07:16,910 --> 00:07:14,870
this picture is view as a shot taken

78
00:07:20,210 --> 00:07:16,920
from the 195 foot level the crew have

79
00:07:22,160 --> 00:07:20,220
the crew has arrived on this level and

80
00:07:23,750 --> 00:07:22,170
they'll be taking turns getting into the

81
00:07:26,360 --> 00:07:23,760
vehicle of course their next step is to

82
00:10:07,540 --> 00:07:26,370
cross the orbiter access arm on this

83
00:10:13,040 --> 00:10:11,240
the seven space fliers on sts 84 reflect

84
00:10:15,410 --> 00:10:13,050
the multinational nature of this mission

85
00:10:18,710 --> 00:10:15,420
their origins are found in six countries

86
00:10:25,370 --> 00:10:18,720
the United States Russia England France

87
00:10:27,500 --> 00:10:25,380
Peru and China again our launch will

88
00:10:39,100 --> 00:10:27,510

occur at the opening of our seven minute

89

00:10:46,699 --> 00:10:42,519
entity lots of likely to 12 different

90

00:10:49,840 --> 00:10:46,709
I'll do a poll with this house hallo

91

00:10:54,410 --> 00:10:49,850
director pull over go copy that

92

00:10:57,939 --> 00:10:54,420
engineering director did you say again

93

00:11:01,160 --> 00:10:57,949
ready they really is very doable do that

94

00:11:04,670 --> 00:11:01,170
safety and mission against safety of mr.

95

00:11:06,590 --> 00:11:04,680
listen assurances go jump copy that rank

96

00:11:13,309 --> 00:11:06,600
leather rather still we have no control

97

00:11:14,660 --> 00:11:13,319
on copy that manages in the MMP is

98

00:11:20,389 --> 00:11:14,670
working though here's your cleared to

99

00:11:22,759 --> 00:11:20,399
launch copy that and Atlantis everything

100

00:11:25,160 --> 00:11:22,769
has come together so we're ready to go

101
00:11:30,280 --> 00:11:25,170
you guys have a good flight good mission

102
00:11:35,600 --> 00:11:33,350
that's got these antelope international

103
00:11:37,040 --> 00:11:35,610
partners around the world we're ready to

104
00:11:44,509 --> 00:11:37,050
go and we thank you all your hard work

105
00:11:48,530 --> 00:11:44,519
and NPD you put it along copies yup get

106
00:11:56,449 --> 00:11:48,540
a tu and hydraulics rhetorical on the

107
00:12:07,620 --> 00:11:56,459
copy all right co co tonight for making

108
00:12:27,629 --> 00:12:09,870
and control surface checks are now being

109
00:12:32,290 --> 00:12:30,460
and the gaseous oxygen vent hood is

110
00:12:37,449 --> 00:12:32,300
being slowly retracted away from the top

111
00:12:38,860 --> 00:12:37,459
of the external tank everything looks

112
00:12:40,660 --> 00:12:38,870
good and we're cleared for launch today

113
00:12:45,220 --> 00:12:40,670

no problems are being reported from the

114

00:12:46,929 --> 00:12:45,230

vehicle or the crew Atlantis copies to

115

00:12:50,009 --> 00:12:46,939

the whole NASA team until partners

116

00:12:52,780 --> 00:12:50,019

around the world but either their

117

00:12:55,299 --> 00:12:52,790

leaders historically especially paliotta

118

00:12:58,030 --> 00:12:55,309

now people to schools ever say full of

119

00:12:59,739 --> 00:12:58,040

sleep sitting up the world and action

120

00:13:01,239 --> 00:12:59,749

like that affects a beautiful third will

121

00:13:08,319 --> 00:13:01,249

ready to take a little bit buell off

122

00:13:13,479 --> 00:13:08,329

that brought me one minute 30 seconds

123

00:13:19,989 --> 00:13:13,489

left ten nine eight seven we have a go

124

00:13:21,850 --> 00:13:19,999

from end art four three two one we have

125

00:13:23,859 --> 00:13:21,860

booster ignition and liftoff of the

126

00:13:34,109 --> 00:13:23,869

space shuttle Atlantis maintaining

127

00:13:40,629 --> 00:13:38,350

Roger roll away echoing the words of the

128

00:13:42,400 --> 00:13:40,639

year ago down on his launch 36 years ago

129

00:13:44,229 --> 00:13:42,410

commander Kelly report puts Atlantis

130

00:13:45,699 --> 00:13:44,239

into the role heads down wins level to

131

00:13:47,199 --> 00:13:45,709

the in a half minute ride the orbit

132

00:13:53,360 --> 00:13:47,209

might fall headed to the MIR Space

133

00:13:56,960 --> 00:13:55,490

30 seconds into the flight Atlantis's

134

00:13:58,790 --> 00:13:56,970

three liquid fuel main engines now

135

00:14:00,260 --> 00:13:58,800

throttling back in a three step fashion

136

00:14:01,940 --> 00:14:00,270

to sixty-seven percent of rated

137

00:14:03,800 --> 00:14:01,950

performance to dampen the stress on the

138

00:14:16,400 --> 00:14:03,810

shuttles Aero surfaces as it breaks

139

00:14:18,019 --> 00:14:16,410

through the sound barrier fifty-three

140

00:14:19,420 --> 00:14:18,029

seconds into the flight the main engines

141

00:14:22,250 --> 00:14:19,430

now beginning to rev up to full throttle

142

00:14:23,960 --> 00:14:22,260

104 percent of rated performance the

143

00:14:25,550 --> 00:14:23,970

engines along with the three fuel cells

144

00:14:31,100 --> 00:14:25,560

and three auxiliary power units all

145

00:14:32,590 --> 00:14:31,110

functioning normally 15 seconds away

146

00:14:34,400 --> 00:14:32,600

from solid rocket booster separation

147

00:14:35,750 --> 00:14:34,410

that will be commanded by the

148

00:14:52,240 --> 00:14:35,760

general-purpose computers through the

149

00:14:56,980 --> 00:14:54,550

booster officer confirms a good solid

150

00:14:58,690 --> 00:14:56,990

rocket booster separation guidance since

151

00:15:00,430 --> 00:14:58,700

converging on all three main engines now