



1
00:01:17,800 --> 00:01:14,980
and we have that TV at this point and

2
00:01:20,920 --> 00:01:17,810
this crude the STA the members of the

3
00:01:23,230 --> 00:01:20,930
mission st s 86 are just outside their

4
00:01:25,980 --> 00:01:23,240
crew quarters in their dining facility

5
00:01:28,030 --> 00:01:25,990
Wendy Lawrence mission specialist is

6
00:01:31,570 --> 00:01:28,040
seated next to the rest of her crew

7
00:01:36,520 --> 00:01:31,580
members which include Scott Pierzynski

8
00:01:39,100 --> 00:01:36,530
Mike or Dave wolf pilot Mike bloomfield

9
00:01:40,660 --> 00:01:39,110
of course our commander shown here Jim

10
00:01:42,899 --> 00:01:40,670
Weatherby is a veteran shuttle flowery

11
00:01:48,580 --> 00:01:42,909
this is his fourth flight that he's

12
00:01:51,969 --> 00:01:48,590
getting ready to participate with and of

13
00:01:54,850 --> 00:01:51,979

course our mission specialist Dave wolf

14

00:01:56,980 --> 00:01:54,860

who will be going up but not coming back

15

00:02:02,770 --> 00:01:56,990

he will be staying on mirror for the

16

00:02:05,289 --> 00:02:02,780

next four months representative from the

17

00:02:10,419 --> 00:02:05,299

french space agency is jean-luc raytheon

18

00:02:12,039 --> 00:02:10,429

he'll be flying on this flight as well

19

00:02:15,190 --> 00:02:12,049

as I representative from the Russian

20

00:02:17,949 --> 00:02:15,200

space agency Vladimir ki Tov he is a

21

00:02:22,539 --> 00:02:17,959

very experienced astronaut cosmonaut and

22

00:02:31,620 --> 00:02:22,549

he will be one of the two EV a crew

23

00:02:36,420 --> 00:02:34,110

and they are all ready to take our

24

00:02:47,270 --> 00:02:36,430

picture of course our cameramen who are

25

00:02:51,380 --> 00:02:49,850

again the exact time of launch will be

26

00:02:53,180 --> 00:02:51,390

announced about 90 minutes before

27

00:02:57,530 --> 00:02:53,190

liftoff but our best estimate at this

28

00:03:00,830 --> 00:02:57,540

time based on the location of the MIR

29

00:03:19,520 --> 00:03:00,840

space station launch will occur at about

30

00:03:25,250 --> 00:03:23,660

we and we do have live TV the flight

31

00:03:28,370 --> 00:03:25,260

crew the seven members of our flight

32

00:03:30,440 --> 00:03:28,380

team are in their crew quarters making

33

00:03:33,699 --> 00:03:30,450

last-minute preparations being suited

34

00:03:38,449 --> 00:03:33,709

for this mission Jim Weatherby is as

35

00:03:44,800 --> 00:03:38,459

being attended to he has his helmet on

36

00:03:49,070 --> 00:03:44,810

he of course it's preparing for his and

37

00:03:50,600 --> 00:03:49,080

his pilot as Mike bloomfield and he is

38

00:03:52,670 --> 00:03:50,610

preparing for his first shuttle mission

39

00:03:54,620 --> 00:03:52,680

he is a graduate of the US Air Force

40

00:03:57,050 --> 00:03:54,630

Academy a mission specialist windy

41

00:03:59,509 --> 00:03:57,060

Lawrence the only female board this

42

00:04:01,790 --> 00:03:59,519

flight making her second trip into space

43

00:04:05,509 --> 00:04:01,800

aboard the shuttle her first flight was

44

00:04:09,979 --> 00:04:05,519

on mission st s 67 looking at another

45

00:04:13,280 --> 00:04:09,989

mission specialist this looks like Scott

46

00:04:15,849 --> 00:04:13,290

perras in ski the member of the team who

47

00:04:18,500 --> 00:04:15,859

will be going up and staying on Mir is

48

00:04:20,349 --> 00:04:18,510

mission specialist Dave wolf and this

49

00:04:22,640 --> 00:04:20,359

will be his second trip on the shuttle

50

00:04:24,469 --> 00:04:22,650

he'll remain on Mir for the next four

51
00:04:26,870 --> 00:04:24,479
months a replacing mike foale who has

52
00:04:28,670 --> 00:04:26,880
been on Mir since May wolf is scheduled

53
00:04:30,320 --> 00:04:28,680
to be the 6th astronaut to live aboard

54
00:04:33,530 --> 00:04:30,330
mir and he will officially become a

55
00:04:37,219 --> 00:04:33,540
member of the mirror crew after atlantis

56
00:04:39,170 --> 00:04:37,229
and mir doch on saturday afternoon and

57
00:04:40,880 --> 00:04:39,180
it's hard to tell who these astronauts

58
00:04:43,310 --> 00:04:40,890
are with their helmets amba that looked

59
00:04:47,390 --> 00:04:43,320
like it was Jean Luc retain a member of

60
00:04:54,469 --> 00:04:47,400
our flight crew actually a he is a chief

61
00:04:58,550 --> 00:04:54,479
of the French astronaut office Vladimir

62
00:05:01,850 --> 00:04:58,560
t tov also is a member of this crew he

63
00:05:03,920 --> 00:05:01,860

will be making his second flight on the

64

00:05:07,540 --> 00:05:03,930

shuttle but this is his fifth flight

65

00:05:12,800 --> 00:05:07,550

overall he became a cosmonaut in back in

66

00:05:15,170 --> 00:05:12,810

1976 also at the launch pad is the final

67

00:05:17,029 --> 00:05:15,180

inspection team they were formerly known

68

00:05:18,529 --> 00:05:17,039

as the ice and debris assessment team

69

00:05:21,469 --> 00:05:18,539

but they are currently working their way

70

00:05:23,110 --> 00:05:21,479

around the launch structure this is a

71

00:05:25,730 --> 00:05:23,120

team of engineers and safety personnel

72

00:05:27,230 --> 00:05:25,740

they were dispatched by the pad by

73

00:05:34,100 --> 00:05:27,240

launch director Jim Harrington follow

74

00:05:39,990 --> 00:05:36,930

this is shuttle launch control we've

75

00:05:41,850 --> 00:05:40,000

just left our hold at t minus three

76
00:05:45,450 --> 00:05:41,860
hours and we are accounting at t-minus

77
00:05:47,790 --> 00:05:45,460
two hours 58 minutes and we have live TV

78
00:05:49,350 --> 00:05:47,800
of our flight crew as they are on the

79
00:05:52,830 --> 00:05:49,360
third floor the crew quarters making

80
00:05:55,290 --> 00:05:52,840
preparations to get on the elevator go

81
00:05:57,750 --> 00:05:55,300
down two floors again on the astronaut

82
00:06:00,030 --> 00:05:57,760
van to be driven out to the pad the

83
00:06:04,020 --> 00:06:00,040
seven members of the STS 86 crew being

84
00:06:06,150 --> 00:06:04,030
led by Jim weather be followed by pilot

85
00:06:09,060 --> 00:06:06,160
Michael Bloomfield mission specialist

86
00:06:11,670 --> 00:06:09,070
Vladimir RT Tom Scott Pierzynski John

87
00:07:22,450 --> 00:06:11,680
with creaky on mini lawrence and david

88
00:07:28,719 --> 00:07:25,629

also we have a view of the commander in

89

00:07:33,999 --> 00:07:28,729

his commander seat from the inside of

90

00:07:46,380 --> 00:07:34,009

the Atlantis and it is poor in at this

91

00:07:46,390 --> 00:08:10,920

okay got that

92

00:08:17,439 --> 00:08:13,990

530-6 to their arm testing okay I'll do

93

00:08:18,939 --> 00:08:17,449

that 30 on 2 and 20 / 10 sep duel in a

94

00:08:21,909 --> 00:08:18,949

row notification will be activated

95

00:08:24,070 --> 00:08:21,919

momentarily and may cause the unity of

96

00:08:25,990 --> 00:08:24,080

error messages assistant console to

97

00:08:28,990 --> 00:08:26,000

interrupt multiplayer is coming we out a

98

00:08:35,519 --> 00:08:29,000

deal implement and cmp CEO teasing is

99

00:08:44,860 --> 00:08:35,529

this 162 please copy entities and tdpt

100

00:09:01,360 --> 00:08:44,870

hundred OTC at red warning imma just

101
00:09:16,249 --> 00:09:04,360
and it looked like Scott is preparing a

102
00:09:20,989 --> 00:09:19,489
see you back on earth in 10 days and of

103
00:09:57,819 --> 00:09:20,999
course that is certainly the schedule

104
00:10:07,400 --> 00:10:02,660
that's all it is the MS 50 cloud

105
00:10:12,859 --> 00:10:07,410
contract msi houston day I have you loud

106
00:10:15,619 --> 00:10:12,869
and clear how's it going just to let the

107
00:10:17,389 --> 00:10:15,629
beautiful might have Florida dock with

108
00:10:25,309 --> 00:10:17,399
the port to the ascent with you this

109
00:10:27,470 --> 00:10:25,319
great crew apart we are to find a great

110
00:10:43,800 --> 00:10:27,480
crew on the ground ops and everything in

111
00:10:49,930 --> 00:10:46,810
safety and mission assurance safety mr.

112
00:10:52,690 --> 00:10:49,940
sir please go stop it up late well love

113
00:10:58,300 --> 00:10:52,700

you sir we have no constraints on top of

114

00:11:04,420 --> 00:10:58,310

that hot planet the MSP is filled for

115

00:11:07,240 --> 00:11:04,430

once copy this and Atlantis like

116

00:11:10,420 --> 00:11:07,250

everything's come together and we wish

117

00:11:15,100 --> 00:11:10,430

you a great boys and a great mission and

118

00:11:17,170 --> 00:11:15,110

we'll see back here on the 5th it's been

119

00:11:18,940 --> 00:11:17,180

a great flow for Atlantis as I saw the

120

00:11:20,620 --> 00:11:18,950

folks who worked on the processing of

121

00:11:25,510 --> 00:11:20,630

the vehicle t say we take her to space

122

00:11:29,440 --> 00:11:25,520

chimp under this NPD you cleared along I

123

00:11:32,230 --> 00:11:29,450

copy Sarah go says gone to a forecast

124

00:11:36,040 --> 00:11:32,240

broken deck your natal site will be

125

00:11:38,680 --> 00:11:36,050

Marrone that site number 39 point

126
00:11:42,280 --> 00:11:38,690
nominal speed brake altimeter there's

127
00:11:45,580 --> 00:11:42,290
two niner niner niner Windsor 050 @ 4

128
00:12:00,590 --> 00:11:45,590
also been gurira is going to be a go

129
00:12:07,950 --> 00:12:02,940
t-minus three minutes 30 seconds and

130
00:12:10,350 --> 00:12:07,960
counting and final error surface checks

131
00:12:12,120 --> 00:12:10,360
of the orbiters wing a lavon's and

132
00:12:14,070 --> 00:12:12,130
letters are being completed this

133
00:12:17,250 --> 00:12:14,080
verifies the ovaries hydraulic systems

134
00:12:19,170 --> 00:12:17,260
are up and operational I'll be that and

135
00:12:21,420 --> 00:12:19,180
Atlanta soda machines cores lock your

136
00:12:24,330 --> 00:12:21,430
visors and maybe those two foals have a

137
00:12:31,880 --> 00:12:24,340
good trip for my dog Reba and give our

138
00:12:36,000 --> 00:12:31,890

best for the mere crew ten nine eight

139

00:12:40,620 --> 00:12:36,010

seven we have a go for me five four

140

00:12:43,140 --> 00:12:40,630

three two one booster ignition and

141

00:12:45,240 --> 00:12:43,150

liftoff of the space shuttle Atlantis

142

00:12:47,040 --> 00:12:45,250

extending America's presence in space

143

00:12:52,530 --> 00:12:47,050

while opening new chapters in

144

00:12:54,150 --> 00:12:52,540

exploration Justin and Justin up in full

145

00:12:55,890 --> 00:12:54,160

control program initiated to play

146

00:13:03,230 --> 00:12:55,900

Savannah sonnets heads down track over

147

00:13:08,790 --> 00:13:06,330

range 100 4% preparing the throttle down

148

00:13:09,600 --> 00:13:08,800

to sixty-seven percent for max Q passing

149

00:13:18,290 --> 00:13:09,610

through the period of maximum

150

00:13:37,170 --> 00:13:25,050

range is throttling down now Reeves at

151
00:13:40,980 --> 00:13:37,180
67 atlantis you can ignore the water

152
00:13:43,260 --> 00:13:40,990
spray boiler quantity message three

153
00:13:47,570 --> 00:13:43,270
instances 67 now passing through maximum

154
00:13:53,100 --> 00:13:50,040
Atlantis moving a 1,000 miles per hour

155
00:13:56,340 --> 00:13:53,110
now altitude eight point eight miles

156
00:14:03,930 --> 00:13:56,350
downrange 5.8 miles Atlanta's go at

157
00:14:05,670 --> 00:14:03,940
throttle up three engines baguette

158
00:14:08,880 --> 00:14:05,680
hundred four percent now Atlantis moving

159
00:14:13,800 --> 00:14:08,890
at 1,600 miles per hour Atlantis that is

160
00:14:18,400 --> 00:14:16,150
three good food fuel cells three good

161
00:14:20,920 --> 00:14:18,410
APU three engines running at 104 percent

162
00:14:22,840 --> 00:14:20,930
atlantis now moving at over 2,000 miles

163
00:14:31,600 --> 00:14:22,850

per hour 18.4 miles in altitude

164

00:14:34,380 --> 00:14:31,610

downrange 16 miles about 15 seconds away

165

00:14:50,670 --> 00:14:34,390

from solid rocket booster separation

166

00:14:58,920 --> 00:14:52,500

I have solid rocket booster separation

167

00:15:03,840 --> 00:14:58,930

confirmed guidance converging farm and

168

00:15:06,630 --> 00:15:03,850

phenomenal performance during first

169

00:15:08,430 --> 00:15:06,640

stage considered nominal now three

170

00:15:10,320 --> 00:15:08,440

engines running at 104 percent as