



1  
00:00:53,189 --> 00:00:02,590  
hi i'm steve bowen from the crew of

2  
00:00:53,199 --> 00:01:10,469  
ah

3  
00:01:10,479 --> 00:01:31,510  
mm-hmm

4  
00:01:39,270 --> 00:01:33,429  
good morning atlantis and a special good

5  
00:01:43,749 --> 00:01:41,350  
good morning shannon and

6  
00:01:46,630 --> 00:01:43,759  
thank you for that great music and

7  
00:01:48,710 --> 00:01:46,640  
i thank my uh family daddy and the boys

8  
00:01:49,590 --> 00:01:48,720  
and gillian and

9  
00:01:52,710 --> 00:01:49,600  
uh

10  
00:01:54,789 --> 00:01:52,720  
another great day in space

11  
00:01:57,510 --> 00:01:54,799  
and we agree about the

12  
00:02:52,790 --> 00:01:57,520  
another great day and we also will thank

13  
00:03:00,790 --> 00:02:57,350

hey chris i've uh capcom this uh when it

14

00:03:04,630 --> 00:03:00,800

wasn't uh wasn't performed flawlessly so

15

00:03:06,869 --> 00:03:04,640

come on page uh the flight specific 2-11

16

00:03:09,589 --> 00:03:06,879

and we're ready to do

17

00:03:13,589 --> 00:03:09,599

the ldi activation and

18

00:03:19,270 --> 00:03:16,470

okay great and i will

19

00:03:21,910 --> 00:03:19,280

not start the records at the bottom and

20

00:03:24,949 --> 00:03:21,920

get the arm moving until uh until we got

21

00:03:27,190 --> 00:03:24,959

good ku but thanks for that sorry to uh

22

00:03:29,270 --> 00:03:27,200

over uh over manage this i just wanted

23

00:03:31,430 --> 00:03:29,280

to make sure we didn't mess it up

24

00:03:32,789 --> 00:03:31,440

no no problem we had the pentacle out

25

00:03:37,430 --> 00:03:32,799

and made sure that everything was

26

00:03:43,750 --> 00:03:40,470

that conversation with tony antonelli

27

00:03:45,350 --> 00:03:43,760

who is the pilot aboard atlantis

28

00:03:47,910 --> 00:03:45,360

and chris cassidy here in mission

29

00:03:50,550 --> 00:03:47,920

control relating to the upcoming start

30

00:03:52,229 --> 00:03:50,560

of procedures associated with the

31

00:03:53,750 --> 00:03:52,239

inspection of atlantis thermal

32

00:03:55,149 --> 00:03:53,760

protection system

33

00:03:57,910 --> 00:03:55,159

the routine

34

00:04:00,070 --> 00:03:57,920

post-undocking activity

35

00:04:03,270 --> 00:04:00,080

should be getting underway here in just

36

00:04:06,149 --> 00:04:03,280

a few minutes at the bottom of the hour

37

00:04:08,869 --> 00:04:06,159

or at um or in about seven minutes

38

00:04:11,429 --> 00:04:08,879

nearing the top of the hour

39

00:04:13,750 --> 00:04:11,439

and the initial check out of the

40

00:04:14,949 --> 00:04:13,760

boom extension and the sensor package is

41

00:04:17,990 --> 00:04:14,959

complete

42

00:04:19,590 --> 00:04:18,000

the arm's now being maneuvered by pilot

43

00:04:21,830 --> 00:04:19,600

tony antonelli

44

00:04:23,830 --> 00:04:21,840

to the

45

00:04:27,510 --> 00:04:23,840

viewing opportunity the scanning

46

00:04:32,230 --> 00:04:27,520

location for the starboard wing to begin

47

00:04:32,240 --> 00:04:37,030

in houston the records are running

48

00:04:37,040 --> 00:04:53,430

copy

49

00:04:53,440 --> 00:04:58,870

atlantis will take course rates

50

00:04:58,880 --> 00:08:20,390

okay thanks

51

00:08:20,400 --> 00:08:25,189

three quarters rough

52

00:08:25,199 --> 00:08:40,870

copy your furs off

53

00:08:44,949 --> 00:08:43,589

atlantis great job uh on the nose cap

54

00:08:49,190 --> 00:08:44,959

and though in all of the procedures

55

00:08:49,200 --> 00:08:52,550

all right thank you

56

00:08:52,560 --> 00:09:07,750

does that mean we get to test it safer

57

00:09:07,760 --> 00:09:28,389

nice try

58

00:09:31,670 --> 00:09:30,230

and with that call the

59

00:09:34,790 --> 00:09:31,680

nose cap

60

00:09:42,630 --> 00:09:34,800

survey of the reinforced carbon carbon

61

00:09:46,389 --> 00:09:44,870

the nose cap

62

00:09:58,389 --> 00:09:46,399

survey

63

00:10:03,829 --> 00:10:00,710

the robotic arm now

64

00:10:07,829 --> 00:10:03,839

being maneuvered to the port wing the

65

00:10:10,310 --> 00:10:07,839

left wing of atlantis for the final

66

00:10:12,949 --> 00:10:11,350

that

67

00:10:15,190 --> 00:10:12,959

survey will mirror

68

00:11:19,670 --> 00:10:15,200

the one performed earlier on the

69

00:11:23,030 --> 00:11:21,750

this is mission control houston the lead

70

00:11:24,470 --> 00:11:23,040

team for the

71

00:11:27,509 --> 00:11:24,480

space shuttles

72

00:11:29,509 --> 00:11:27,519

atlantis's sts-132 mission continuing to

73

00:11:30,550 --> 00:11:29,519

watch along with the crew follow along

74

00:11:33,350 --> 00:11:30,560

through the

75

00:11:34,790 --> 00:11:33,360

timeline as crew members prepare to wrap

76  
00:11:36,790 --> 00:11:34,800  
up the survey

77  
00:11:38,630 --> 00:11:36,800  
the late inspection activities with the

78  
00:11:41,030 --> 00:11:38,640  
orbiter's boom extension with the

79  
00:11:44,150 --> 00:11:41,040  
sensitive sensor package on the tip of

80  
00:11:47,030 --> 00:11:44,160  
that boom the port wing the left wing of

81  
00:11:49,430 --> 00:11:47,040  
atlantis the leading edge panels the

82  
00:11:52,230 --> 00:11:49,440  
last of the scanning to be done for the

83  
00:11:54,949 --> 00:11:52,240  
mission the data being collected

84  
00:11:56,870 --> 00:11:54,959  
much of it transmitted live to the

85  
00:11:59,590 --> 00:11:56,880  
damage assessment team and the imagery

86  
00:12:02,310 --> 00:11:59,600  
analysis team here in mission control to

87  
00:12:03,910 --> 00:12:02,320  
evaluate that data over the next 24 to

88  
00:12:07,350 --> 00:12:03,920

27 hours

89

00:12:08,870 --> 00:12:07,360  
to present its findings to the mission

90

00:12:11,110 --> 00:12:08,880  
management team

91

00:12:13,350 --> 00:12:11,120  
to clear atlantis's

92

00:12:15,509 --> 00:12:13,360  
overall thermal protection system for

93

00:12:31,670 --> 00:12:15,519  
re-entry and landing planned for

94

00:12:37,509 --> 00:12:34,629  
this is mission control houston at 7 17

95

00:12:39,750 --> 00:12:37,519  
a.m the survey of the port wing is

96

00:12:41,509 --> 00:12:39,760  
completed that completes all of these

97

00:12:43,590 --> 00:12:41,519  
surveys for the day

98

00:12:45,990 --> 00:12:43,600  
in support of the late inspection

99

00:12:48,629 --> 00:12:46,000  
activities the survey of atlantis's wing

100

00:12:51,110 --> 00:12:48,639  
leading edge panels and nose cap

101  
00:12:52,550 --> 00:12:51,120  
the reinforced carbon carbon the focus

102  
00:12:55,269 --> 00:12:52,560  
of attention

103  
00:12:56,150 --> 00:12:55,279  
with the late inspection to ensure that

104  
00:12:58,389 --> 00:12:56,160  
the

105  
00:12:59,829 --> 00:12:58,399  
reinforced carbon-carbon panels are

106  
00:13:02,870 --> 00:12:59,839  
healthy to

107  
00:13:05,350 --> 00:13:02,880  
support re-entry and landing all of the

108  
00:13:09,509 --> 00:13:05,360  
data will be reviewed over the course of

109  
00:13:13,190 --> 00:13:09,519  
the next uh 24 to 27 hours or so before

110  
00:13:14,710 --> 00:13:13,200  
making a final ruling but uh the team

111  
00:13:16,870 --> 00:13:14,720  
uh will be

112  
00:13:19,509 --> 00:13:16,880  
looking at that data

113  
00:13:21,590 --> 00:13:19,519

and uh reporting back through

114

00:13:24,069 --> 00:13:21,600

the mission evaluation room to the

115

00:13:28,310 --> 00:13:24,079

mission management team both this

116

00:13:33,350 --> 00:13:30,710

the survey began

117

00:13:34,550 --> 00:13:33,360

earlier than timeline the crew after

118

00:13:36,790 --> 00:13:34,560

wake up

119

00:13:39,189 --> 00:13:36,800

got busy with the work day and

120

00:13:41,509 --> 00:13:39,199

and got ahead of this schedule

121

00:13:43,430 --> 00:13:41,519

completing all of the surveys with no

122

00:13:46,629 --> 00:13:43,440

issues with the operation of the

123

00:13:48,470 --> 00:13:46,639

orbiter's robotic arm its boom extension

124

00:13:50,949 --> 00:13:48,480

and the sensitive

125

00:13:52,230 --> 00:13:50,959

package sensor package on the end of the

126  
00:13:55,750 --> 00:13:52,240  
boom

127  
00:13:58,150 --> 00:13:55,760  
the arm is now being maneuvered to the

128  
00:14:00,389 --> 00:13:58,160  
berthing position in preparation for

129  
00:14:02,389 --> 00:14:00,399  
stowage of the orbiter boom sensor

130  
00:16:04,310 --> 00:14:02,399  
system the boom extension along the

131  
00:16:08,310 --> 00:16:06,150  
and here's a look now at the view from

132  
00:16:10,150 --> 00:16:08,320  
the payload bay cameras on the space

133  
00:16:11,110 --> 00:16:10,160  
shuttle atlantis

134  
00:16:13,269 --> 00:16:11,120  
as

135  
00:16:14,389 --> 00:16:13,279  
it crosses over

136  
00:16:18,629 --> 00:16:14,399  
france

137  
00:16:21,670 --> 00:16:20,310  
italian

138  
00:16:27,350 --> 00:16:21,680

peninsula

139

00:16:31,350 --> 00:16:29,269

to the east of uh

140

00:16:33,509 --> 00:16:31,360

rome

141

00:16:37,670 --> 00:16:33,519

and naples and then out over bari and

142

00:16:51,910 --> 00:16:40,310

and the famous

143

00:16:51,920 --> 00:18:05,590

oh toronto and leche italy

144

00:18:10,070 --> 00:18:08,150

i will first take the

145

00:18:13,110 --> 00:18:10,080

shuttle and station over the baja

146

00:18:15,590 --> 00:18:13,120

peninsula of mexico and then on a

147

00:18:17,430 --> 00:18:15,600

northeast diagonal across new mexico

148

00:18:19,909 --> 00:18:17,440

kansas iowa

149

00:18:22,150 --> 00:18:19,919

wisconsin and northern michigan

150

00:18:25,190 --> 00:18:22,160

before heading out over the

151  
00:19:05,990 --> 00:18:25,200  
ontario and quebec provinces of

152  
00:19:11,270 --> 00:19:08,950  
also available some views of the mexican

153  
00:19:18,549 --> 00:19:11,280  
mainland from a slightly different

154  
00:19:22,789 --> 00:19:20,630  
these views coming to us as the

155  
00:19:24,390 --> 00:19:22,799  
international space station's expedition

156  
00:19:26,390 --> 00:19:24,400  
23 crew

157  
00:19:28,390 --> 00:19:26,400  
gets uh for the most part a day off

158  
00:19:30,150 --> 00:19:28,400  
today with a few minor house peak

159  
00:19:33,830 --> 00:19:30,160  
keeping activities and their regularly

160  
00:19:39,350 --> 00:19:35,430  
and looking ahead in the direction of

161  
00:19:59,909 --> 00:19:39,360  
travel this view now bringing in site of

162  
00:21:29,669 --> 00:20:02,390  
chicago the windy city there at the

163  
00:21:37,270 --> 00:21:32,630

a couple of low pressure systems off the

164

00:21:41,830 --> 00:21:39,830

americas coming into view on these

165

00:21:43,190 --> 00:21:41,840

images coming live from the external