1
00:01:06,080 --> 00:01:15,350
people stay

2
00:01:15,360 --> 00:01:40,429
we are

3
00:01:40,439 --> 00:01:54,870
one more song

4
00:01:54,880 --> 00:02:20,070
please

5
00:02:20,080 --> 00:03:03,350
oh

6
00:03:07,910 --> 00:03:05,509
good morning discovery uh

7
00:03:09,509 --> 00:03:07,920
as ecom pointed out that music is really

8
00:03:11,110 --> 00:03:09,519
for the planning shift because we're

9
00:03:18,229 --> 00:03:11,120
gonna have to stay and finish the

10
00:03:21,430 --> 00:03:20,229
uh good morning mark uh and to the

11
00:03:23,589 --> 00:03:21,440
planning shift

12
00:03:25,190 --> 00:03:23,599
we were hoping maybe that bit for us

13
00:03:26,229 --> 00:03:25,200

that we'd stay a little bit longer but

14
00:03:28,229 --> 00:03:26,239
uh

15
00:03:30,390 --> 00:03:28,239
too bad for you guys

16
00:03:33,110 --> 00:03:30,400
i hate to break it to you kurt but we're

17
00:04:13,670 --> 00:03:33,120
still talking nominal mission duration

18
00:04:17,749 --> 00:04:15,350
well we'd just like to welcome everyone

19
00:04:19,030 --> 00:04:17,759
to the mid deck of the space shuttle

20
00:04:21,349 --> 00:04:19,040
discovery

21
00:04:25,350 --> 00:04:21,359
uh we're on our 124th orbit around the

22
00:04:30,550 --> 00:04:27,909
we the mission has been going great

23
00:04:33,430 --> 00:04:30,560
we've completed

24
00:04:35,749 --> 00:04:33,440
eight days of intense payload operations

25
00:04:38,710 --> 00:04:35,759
uh the kit folks at ksc has given us a

26
00:04:40,830 --> 00:04:38,720
great vehicle in discovery she has

27
00:04:43,110 --> 00:04:40,840
operated flawlessly for the last eight

28
00:04:45,189 --> 00:04:43,120
days and just to let you know where we

29
00:04:47,830 --> 00:04:45,199
are we're currently 160 nautical miles

30
00:04:49,590 --> 00:04:47,840
above the earth surface of the earth and

31
00:04:51,270 --> 00:04:49,600
we're in the south pacific

32
00:04:54,070 --> 00:04:51,280
and during the press conference we'll be

33
00:04:55,590 --> 00:04:54,080
pressed passing across south america and

34
00:04:58,790 --> 00:04:55,600
northern europe

35
00:05:00,550 --> 00:04:58,800
and jscpo we're ready for questions

36
00:05:02,710 --> 00:05:00,560
this is marcia dunn of the associated

37
00:05:04,629 --> 00:05:02,720
press uh for one or more of the rookies

38
00:05:06,870 --> 00:05:04,639

i'm wondering what your biggest surprise

39
00:05:08,230 --> 00:05:06,880
about space flight has been so far and

40
00:05:10,230 --> 00:05:08,240
i'm thinking more of the day-to-day

41
00:05:20,150 --> 00:05:10,240
stuff not necessarily the scientific

42
00:05:26,230 --> 00:05:24,629
this is steve robinson i'm a rookie and

43
00:05:27,909 --> 00:05:26,240
i think one of the biggest surprises has

44
00:05:30,710 --> 00:05:27,919
certainly been the uh

45
00:05:33,189 --> 00:05:30,720
uh how much fun and how how initially

46
00:05:35,189 --> 00:05:33,199
awkward it could be floating around in

47
00:05:37,590 --> 00:05:35,199
in in the free fall situation that we

48
00:05:40,070 --> 00:05:37,600
have here and and also how efficient it

49
00:05:41,909 --> 00:05:40,080
can be for storing things it's been uh

50
00:05:46,070 --> 00:05:41,919
uh we're really going to miss that when

51
00:05:50,390 --> 00:05:47,909
and i'm robert i think the biggest

52
00:05:52,629 --> 00:05:50,400
surprise for me was just

53
00:05:54,469 --> 00:05:52,639
how the day-to-day activities change you

54
00:05:56,550 --> 00:05:54,479
know getting getting up in the morning

55
00:05:58,390 --> 00:05:56,560
and washing and getting ready for the

56
00:06:00,710 --> 00:05:58,400
day is a lot different here in space

57
00:06:02,230 --> 00:06:00,720
obviously there are things that you know

58
00:06:04,230 --> 00:06:02,240
that we kind of take for granted when

59
00:06:07,909 --> 00:06:04,240
we're in gravity like

60
00:06:12,070 --> 00:06:09,990
so that doesn't happen here so you do

61
00:06:13,670 --> 00:06:12,080
that a little bit differently and and

62
00:06:14,790 --> 00:06:13,680
the whole morning routine changes

63
00:06:21,110 --> 00:06:14,800

tremendously that was the biggest

64
00:06:24,550 --> 00:06:23,110
is that beyond a trick within uh i guess

65
00:06:27,110 --> 00:06:24,560
what i will add to that is after about

66
00:06:29,350 --> 00:06:27,120
five or six days up here you get kind of

67
00:06:31,189 --> 00:06:29,360
uh used to the funny attitudes up here

68
00:06:33,670 --> 00:06:31,199
where up can be anywhere and don't could

69
00:06:36,150 --> 00:06:33,680
be anywhere and get used to working

70
00:06:38,870 --> 00:06:36,160
upside down and whatever and it feels

71
00:06:41,110 --> 00:06:38,880
kind of natural after five or six days

72
00:06:44,309 --> 00:06:41,120
japanese investigators say this is the

73
00:06:45,670 --> 00:06:44,319
last space test of the mfd and i'm

74
00:06:47,270 --> 00:06:45,680
wondering do you think it's ready for

75
00:06:48,950 --> 00:06:47,280
when it flies next time on the

76
00:06:53,510 --> 00:06:48,960
international space station could you

77
00:06:58,309 --> 00:06:55,990
oh i'd give it an a plus it's

78
00:07:00,309 --> 00:06:58,319
really been fun for steve and i to fly

79
00:07:02,629 --> 00:07:00,319
the arm through all the different

80
00:07:04,390 --> 00:07:02,639
scenarios that we have and it's

81
00:07:06,950 --> 00:07:04,400
performed very well and there are some

82
00:07:08,870 --> 00:07:06,960
things we really could not even test on

83
00:07:11,110 --> 00:07:08,880
the ground some of the compliance

84
00:07:13,909 --> 00:07:11,120
functions and we sort of feel like test

85
00:07:15,350 --> 00:07:13,919
pilots up here trying out the arm and we

86
00:07:17,430 --> 00:07:15,360
have

87
00:07:19,510 --> 00:07:17,440
taken it to the edge of its envelope and

88
00:07:22,150 --> 00:07:19,520

tested every possible mode and i think

89
00:07:24,230 --> 00:07:22,160
we have a lot of good data and we still

90
00:07:27,749 --> 00:07:24,240
are learning a lot about it and we'll be

91
00:07:29,510 --> 00:07:27,759
ready for international space station

92
00:07:31,029 --> 00:07:29,520
this is seth bornstein from the orlando

93
00:07:32,790 --> 00:07:31,039
sentinel actually if jan can if you can

94
00:07:33,749 --> 00:07:32,800
keep this just to follow up on that

95
00:07:35,270 --> 00:07:33,759
question

96
00:07:37,029 --> 00:07:35,280
uh there have been so you know you've

97
00:07:38,950 --> 00:07:37,039
had little problems with the computer

98
00:07:41,029 --> 00:07:38,960
commands and you've had sort of stop and

99
00:07:43,189 --> 00:07:41,039
go with the arm has that at all been

100
00:07:44,870 --> 00:07:43,199
frustrating or annoying

101
00:07:46,150 --> 00:07:44,880
or is it something you just really don't

102
00:07:50,070 --> 00:07:46,160
even

103
00:07:55,350 --> 00:07:52,390
well we certainly notice it when

104
00:07:57,189 --> 00:07:55,360
something happens like that but

105
00:07:58,950 --> 00:07:57,199
as i said this is sort of a test flight

106
00:08:01,990 --> 00:07:58,960
of this hardware and it's performed very

107
00:08:03,909 --> 00:08:02,000
well and in the compliance mode the

108
00:08:05,189 --> 00:08:03,919
flexible compliance mode is something we

109
00:08:06,710 --> 00:08:05,199
can't test

110
00:08:08,950 --> 00:08:06,720
uh in one g

111
00:08:11,270 --> 00:08:08,960
in the gravity of earth

112
00:08:14,150 --> 00:08:11,280
and so that has really been where we've

113
00:08:15,909 --> 00:08:14,160

had the surprises so we we really uh

114
00:08:18,950 --> 00:08:15,919
didn't know what to expect there and the

115
00:08:20,390 --> 00:08:18,960
fact that we we had to uh play with arm

116
00:08:22,869 --> 00:08:20,400
a little bit more to get it to do what

117
00:08:24,950 --> 00:08:22,879
we wanted to do really uh was not a

118
00:08:27,029 --> 00:08:24,960
worry to us it's something that

119
00:08:29,110 --> 00:08:27,039
was kind of interesting to see how the

120
00:08:31,350 --> 00:08:29,120
different compliance modes worked

121
00:08:33,909 --> 00:08:31,360
as far as the ground commanding

122
00:08:36,149 --> 00:08:33,919
that went very well most of the day we

123
00:08:38,790 --> 00:08:36,159
only missed one ride at the end

124
00:08:40,630 --> 00:08:38,800
when we lost the computer lock so we

125
00:08:43,430 --> 00:08:40,640
proved that the ground commanding works

126
00:08:44,230 --> 00:08:43,440
and i think that was really

127
00:08:46,550 --> 00:08:44,240
uh

128
00:08:48,550 --> 00:08:46,560
a real triumph to command the arm from

129
00:08:49,829 --> 00:08:48,560
the ground and uh that really proves

130
00:08:51,590 --> 00:08:49,839
that we'll be ready for that for

131
00:09:06,389 --> 00:08:51,600
international space station so the few

132
00:09:10,949 --> 00:09:08,710
and one for kurt brown there

133
00:09:13,590 --> 00:09:10,959
uh there's a long streak now going this

134
00:09:16,389 --> 00:09:13,600
year and into much of last year for

135
00:09:18,870 --> 00:09:16,399
first day landings uh first attempt

136
00:09:20,790 --> 00:09:18,880
first day attempt landings at ksc with

137
00:09:22,630 --> 00:09:20,800
very few uh

138
00:09:24,389 --> 00:09:22,640

diversions to california do you feel

139
00:09:25,750 --> 00:09:24,399
under pressure that uh you're gonna have

140
00:09:27,829 --> 00:09:25,760
to land

141
00:09:29,990 --> 00:09:27,839
here at ksc on the first day and and why

142
00:09:31,990 --> 00:09:30,000
do you think it is that uh

143
00:09:33,670 --> 00:09:32,000
shuttles keep um aren't

144
00:09:38,870 --> 00:09:33,680
being waived off for weather much and

145
00:09:42,790 --> 00:09:41,030
well probably the the pressure's not on

146
00:09:45,350 --> 00:09:42,800
me it may be on mission control they do

147
00:09:47,990 --> 00:09:45,360
all the real weather investigation prior

148
00:09:49,590 --> 00:09:48,000
to giving us a go for the orbit burn but

149
00:09:51,590 --> 00:09:49,600
we obviously trust their judgment quite

150
00:09:54,070 --> 00:09:51,600
well and uh and we'll be ready to go

151
00:09:55,750 --> 00:09:54,080
wherever they send us um i don't want to

152
00:09:57,269 --> 00:09:55,760
say we're just lucky but uh obviously

153
00:09:58,949 --> 00:09:57,279
every subtle landing that we do we

154
00:10:01,030 --> 00:09:58,959
always look at the weather very

155
00:10:03,350 --> 00:10:01,040
very strongly so that we understand what

156
00:10:05,509 --> 00:10:03,360
it will do within the next hour so after

157
00:10:07,030 --> 00:10:05,519
the burn so

158
00:10:09,430 --> 00:10:07,040
you have to give a lot of credit to our

159
00:10:10,630 --> 00:10:09,440
space meteorology group they do a great

160
00:10:12,389 --> 00:10:10,640
job at looking at the weather

161
00:10:14,310 --> 00:10:12,399
forecasting it and

162
00:10:15,829 --> 00:10:14,320
i think they're they're just that good

163
00:10:19,269 --> 00:10:15,839

if they give us a go for the orbit we

164
00:10:21,190 --> 00:10:19,279
can we can come on in there

165
00:10:24,069 --> 00:10:21,200
pete altery with the west kentucky news

166
00:10:26,710 --> 00:10:24,079
uh for briarni um as a principal

167
00:10:28,230 --> 00:10:26,720
investigator on the uh the mims

168
00:10:30,630 --> 00:10:28,240
i was wondering if you could comment on

169
00:10:33,430 --> 00:10:30,640
the uh the status and the effectiveness

170
00:10:35,030 --> 00:10:33,440
of both the units that are now on orbit

171
00:10:36,710 --> 00:10:35,040
and in particular

172
00:10:39,430 --> 00:10:36,720
how the mir unit

173
00:10:45,190 --> 00:10:39,440
is its results have impacted on what you

174
00:10:45,200 --> 00:10:46,630
you uh
united mirror's been up there for about