1
00:00:05,749 --> 00:00:03,590
16th of january 2009

2
00:00:07,829 --> 00:00:05,759
and magically on our schedules uh

3
00:00:09,669 --> 00:00:07,839
something popped up and there was this

4
00:00:10,790 --> 00:00:09,679
video tour of the international space

5
00:00:12,789 --> 00:00:10,800
station

6
00:00:14,789 --> 00:00:12,799
and uh what that means is that you're

7
00:00:17,430 --> 00:00:14,799
getting the straight skinny

8
00:00:18,950 --> 00:00:17,440
uh the dirty laundry and everything we

9
00:00:21,310 --> 00:00:18,960
didn't have a chance to clean up and

10
00:00:24,710 --> 00:00:21,320
also we're in the middle of remodeling

11
00:00:27,990 --> 00:00:24,720
sts-126 also known as the ulf2 mission

12
00:00:29,589 --> 00:00:28,000
came up about six or seven weeks ago and

13
00:00:30,950 --> 00:00:29,599

we're still putting everything together

14
00:00:32,790 --> 00:00:30,960
putting it away so things are a little

15
00:00:35,030 --> 00:00:32,800
bit cluttered up here certainly not

16
00:00:36,150 --> 00:00:35,040
dirty we clean it all the time but it's

17
00:00:38,229 --> 00:00:36,160
a little bit cluttered so you're going

18
00:00:39,830 --> 00:00:38,239
to get a chance to see that

19
00:00:41,670 --> 00:00:39,840
but along the way you'll get to see real

20
00:00:44,069 --> 00:00:41,680
life of what the international space

21
00:00:46,950 --> 00:00:44,079
station is like and you can see how

22
00:00:48,790 --> 00:00:46,960
proud i am my crew is and and the entire

23
00:00:50,869 --> 00:00:48,800
space station team is of our beautiful

24
00:00:52,950 --> 00:00:50,879
international space station and get

25
00:00:54,229 --> 00:00:52,960
ready because it's big and so we're very

26
00:01:01,349 --> 00:00:54,239
pleased to be able to show you this

27
00:01:06,230 --> 00:01:04,070
okay here we are at the very front end

28
00:01:09,670 --> 00:01:06,240
of the international space station uh

29
00:01:10,630 --> 00:01:09,680
this is uh the uh forward end of node

30
00:01:12,710 --> 00:01:10,640
two

31
00:01:15,350 --> 00:01:12,720
and uh this is uh right behind this

32
00:01:17,590 --> 00:01:15,360
hatch is uh the pma the pressurized

33
00:01:19,830 --> 00:01:17,600
mating adapter uh to which is space

34
00:01:22,390 --> 00:01:19,840
shuttle docks uh whenever the next space

35
00:01:26,149 --> 00:01:22,400
shuttle comes we're about one month away

36
00:01:28,550 --> 00:01:26,159
from uh the the 15a mission sts-119 with

37
00:01:30,710 --> 00:01:28,560
lee archambault and tony antonelli and

38
00:01:32,630 --> 00:01:30,720

the rest of their great crew

39
00:01:35,350 --> 00:01:32,640
you can see we have our flags up here at

40
00:01:37,109 --> 00:01:35,360
the most forward part it's a 15 nation

41
00:01:38,149 --> 00:01:37,119
partnership this international space

42
00:01:41,190 --> 00:01:38,159
station

43
00:01:42,550 --> 00:01:41,200
so uh we'll start with uh the node two

44
00:01:45,190 --> 00:01:42,560
we will uh

45
00:01:47,190 --> 00:01:45,200
stop at the kibo

46
00:01:49,190 --> 00:01:47,200
module here the japanese pressurized

47
00:01:56,230 --> 00:01:49,200
module in the japanese logistics

48
00:02:00,389 --> 00:01:58,230
we'll stop back there in a second we'll

49
00:02:03,190 --> 00:02:00,399
take a look in the columbus module pride

50
00:02:04,550 --> 00:02:03,200
of the european space agency and our

51
00:02:06,870 --> 00:02:04,560
pride too

52
00:02:09,749 --> 00:02:06,880
and then you can look down the stack

53
00:02:12,630 --> 00:02:09,759
and you can see uh several other modules

54
00:02:14,869 --> 00:02:12,640
and uh and even into the a little bit

55
00:02:16,949 --> 00:02:14,879
into the functional cargo block the fgb

56
00:02:18,710 --> 00:02:16,959
and then the service module so it's a

57
00:02:19,589 --> 00:02:18,720
it's a really big space station that we

58
00:02:20,390 --> 00:02:19,599
got

59
00:02:22,630 --> 00:02:20,400
so

60
00:02:24,869 --> 00:02:22,640
let's start off right here with our new

61
00:02:26,470 --> 00:02:24,879
modules this is node two

62
00:02:28,309 --> 00:02:26,480
harmony

63
00:02:30,790 --> 00:02:28,319

and it was recently brought up it's been

64
00:02:34,150 --> 00:02:30,800
up here for maybe about one year

65
00:02:40,229 --> 00:02:34,160
and uh we can see from harmony

66
00:02:44,630 --> 00:02:41,350
pma

67
00:02:48,229 --> 00:02:46,710
and the gem

68
00:02:52,470 --> 00:02:48,239
so

69
00:02:57,750 --> 00:02:55,830
and an interim resistive exercise device

70
00:03:00,229 --> 00:02:57,760
until we get the advanced resistive

71
00:03:02,710 --> 00:03:00,239
exercise device up and running we get to

72
00:03:05,190 --> 00:03:02,720
use eye red until a red is good

73
00:03:06,710 --> 00:03:05,200
and then there's a hatch below a little

74
00:03:10,149 --> 00:03:06,720
window that you can see out see our

75
00:03:14,630 --> 00:03:12,309
and uh that's uh

76
00:03:17,509 --> 00:03:14,640
that's node two

77
00:03:20,149 --> 00:03:17,519
as we fly into the japanese experimental

78
00:03:22,070 --> 00:03:20,159
module the gem also known as

79
00:03:23,750 --> 00:03:22,080
the kibo

80
00:03:26,309 --> 00:03:23,760
you can see it's the biggest module

81
00:03:29,509 --> 00:03:26,319
aboard the space station and that's in

82
00:03:32,390 --> 00:03:29,519
fact it even says so here there's a

83
00:03:34,229 --> 00:03:32,400
sorry for moving the camera so fast

84
00:03:36,070 --> 00:03:34,239
but it says

85
00:03:38,949 --> 00:03:36,080
right here

86
00:03:41,270 --> 00:03:38,959
welcome to kibo please enjoy and relax

87
00:03:44,309 --> 00:03:41,280
in this brand new the most spacious and

88
00:03:46,710 --> 00:03:44,319

quietest room in the iss

89
00:03:48,789 --> 00:03:46,720
along the floor we're holding we're

90
00:03:50,470 --> 00:03:48,799
temporarily stowing some panels

91
00:03:57,509 --> 00:03:50,480
including the cabin which is going to be

92
00:04:02,869 --> 00:03:59,190
you can see here

93
00:04:05,990 --> 00:04:02,879
this is the sibo rack

94
00:04:09,589 --> 00:04:06,000
which is for cell biology

95
00:04:10,949 --> 00:04:09,599
and then we have a fluid rack

96
00:04:12,789 --> 00:04:10,959
urutai

97
00:04:14,390 --> 00:04:12,799
so these are the two main japanese

98
00:04:18,390 --> 00:04:14,400
science racks that are up here now

99
00:04:24,950 --> 00:04:21,509
behind these panels here

100
00:04:26,870 --> 00:04:24,960
is nothing it's the actual shell of the

101
00:04:29,590 --> 00:04:26,880
spacecraft

102
00:04:31,510 --> 00:04:29,600
and you can see uh there's wires and a

103
00:04:33,270 --> 00:04:31,520
few wires back there

104
00:04:35,189 --> 00:04:33,280
and if we're lucky we'll see a shell

105
00:04:38,150 --> 00:04:35,199
heater these orange strips and they keep

106
00:04:41,189 --> 00:04:38,160
this the actual uh

107
00:04:43,030 --> 00:04:41,199
body of the space station from freezing

108
00:04:45,110 --> 00:04:43,040
or getting really cold

109
00:04:47,990 --> 00:04:45,120
by running electrical current and

110
00:04:49,909 --> 00:04:48,000
keeping everything warm with the heaters

111
00:04:52,390 --> 00:04:49,919
okay we'll stop right here real quick

112
00:04:53,830 --> 00:04:52,400
and take a look on

113
00:04:56,150 --> 00:04:53,840

the floor

114
00:04:59,189 --> 00:04:56,160
on the deck they call it this is the

115
00:05:01,670 --> 00:04:59,199
minus 80 lab freezer melfi

116
00:05:03,909 --> 00:05:01,680
and we use that a lot we store a lot of

117
00:05:06,150 --> 00:05:03,919
our biological samples urine and blood

118
00:05:09,270 --> 00:05:06,160
there

119
00:05:12,550 --> 00:05:09,280
and on the ceiling

120
00:05:14,070 --> 00:05:12,560
uh we have the ics

121
00:05:15,270 --> 00:05:14,080
and prox

122
00:05:19,510 --> 00:05:15,280
rack

123
00:05:24,870 --> 00:05:19,520
operations it's going to be used for the

124
00:05:27,189 --> 00:05:24,880
h2 uh excuse me htv which is the h2

125
00:05:32,150 --> 00:05:27,199
um transfer vehicle

126
00:05:33,189 --> 00:05:32,160
and uh also icu ics is a a com system uh

127
00:05:35,270 --> 00:05:33,199
that's

128
00:05:37,510 --> 00:05:35,280
japan is gonna have up and running once

129
00:05:44,150 --> 00:05:37,520
the external platform is out there so

130
00:05:51,350 --> 00:05:49,270
okay and we have the air lock here

131
00:05:53,590 --> 00:05:51,360
which we haven't used yet but it's ready

132
00:05:55,270 --> 00:05:53,600
to go once you expose facilities there

133
00:05:56,390 --> 00:05:55,280
the airlock will be great because then

134
00:05:58,469 --> 00:05:56,400
you can

135
00:06:00,950 --> 00:05:58,479
take something uh put something in the

136
00:06:02,390 --> 00:06:00,960
airlock and then outside is a robot arm

137
00:06:04,230 --> 00:06:02,400
that can take it and put it on the

138
00:06:06,469 --> 00:06:04,240

outside back porch

139
00:06:08,469 --> 00:06:06,479
now sandy and i just reconfigured this

140
00:06:11,670 --> 00:06:08,479
robotics workstation it looks a little

141
00:06:13,909 --> 00:06:11,680
bit cabley today but it's not so bad

142
00:06:16,070 --> 00:06:13,919
we're actually gonna run a test on

143
00:06:20,150 --> 00:06:16,080
monday using up all the using the the

144
00:06:21,430 --> 00:06:20,160
backup robotics control uh blocks so we

145
00:06:24,230 --> 00:06:21,440
actually had to

146
00:06:27,350 --> 00:06:24,240
re redo a lot of cables today and it

147
00:06:31,590 --> 00:06:29,350
so here are the backup boxes that we

148
00:06:32,550 --> 00:06:31,600
worked on

149
00:06:34,790 --> 00:06:32,560
and

150
00:06:37,270 --> 00:06:34,800
let's take a quick look out the window

151
00:06:39,749 --> 00:06:37,280
before it gets dark outside we're going

152
00:06:40,710 --> 00:06:39,759
around uh not every the world every 90

153
00:06:43,430 --> 00:06:40,720
minutes

154
00:06:45,350 --> 00:06:43,440
so uh it gets uh we can see a lot of

155
00:06:49,430 --> 00:06:45,360
sunrises and sunsets

156
00:06:51,830 --> 00:06:49,440
oh my goodness it's beautiful up there

157
00:06:54,469 --> 00:06:51,840
so this is looking out the porch side of

158
00:06:56,550 --> 00:06:54,479
the space station and we're actually

159
00:06:58,790 --> 00:06:56,560
also on the front side so front port

160
00:06:59,830 --> 00:06:58,800
side of the space station

161
00:07:01,510 --> 00:06:59,840
and

162
00:07:03,510 --> 00:07:01,520
let's take a look what we can see up

163
00:07:05,749 --> 00:07:03,520

there you can see the robot arm i was

164
00:07:08,230 --> 00:07:05,759
talking about the gem rms

165
00:07:11,909 --> 00:07:08,240
those orange sinks are the solar arrays

166
00:07:13,990 --> 00:07:11,919
on the on the port side

167
00:07:16,870 --> 00:07:14,000
and you can see we have a full set and

168
00:07:18,390 --> 00:07:16,880
uh 15a sts-119 is going to be bringing

169
00:07:21,110 --> 00:07:18,400
up

170
00:07:23,270 --> 00:07:21,120
these uh the last solar array on the

171
00:07:25,749 --> 00:07:23,280
starboard side

172
00:07:28,230 --> 00:07:25,759
and take a look there's our blue view

173
00:07:31,029 --> 00:07:28,240
beautiful blue planet there

174
00:07:33,350 --> 00:07:31,039
and uh looking at this and where we are

175
00:07:35,029 --> 00:07:33,360
i'd say we're over the uh

176
00:07:37,270 --> 00:07:35,039
south indian ocean you can actually see

177
00:07:38,950 --> 00:07:37,280
some icebergs down there so we're

178
00:07:39,909 --> 00:07:38,960
actually probably between

179
00:07:42,629 --> 00:07:39,919
um

180
00:07:45,029 --> 00:07:42,639
africa and antarctica you can actually

181
00:07:46,390 --> 00:07:45,039
see the different shades of the blue

182
00:07:48,070 --> 00:07:46,400
water

183
00:07:50,790 --> 00:07:48,080
so that's the view we get to see every

184
00:07:54,390 --> 00:07:50,800
day up here it's pretty nice

185
00:07:58,390 --> 00:07:56,790
window shutter the japanese guys always

186
00:07:59,909 --> 00:07:58,400
think it's fun when we talk about

187
00:08:01,510 --> 00:07:59,919
closing the window it's like no no

188
00:08:03,510 --> 00:08:01,520

closing the shutter because the window

189
00:08:08,230 --> 00:08:03,520
should never be open

190
00:08:13,029 --> 00:08:10,790
now we're gonna float up

191
00:08:13,990 --> 00:08:13,039
one of the few modules that actually

192
00:08:16,230 --> 00:08:14,000
goes

193
00:08:17,909 --> 00:08:16,240
up and that's the

194
00:08:21,749 --> 00:08:17,919
uh japanese

195
00:08:23,589 --> 00:08:21,759
or the gem logistics platform the jlp

196
00:08:25,749 --> 00:08:23,599
it's very empty in here very few

197
00:08:27,350 --> 00:08:25,759
handrails to grab on with your toes or

198
00:08:28,710 --> 00:08:27,360
your hands

199
00:08:31,670 --> 00:08:28,720
and

200
00:08:32,870 --> 00:08:31,680
we have a few zero-g stowage racks

201
00:08:34,870 --> 00:08:32,880
right in here

202
00:08:37,190 --> 00:08:34,880
we also have a few of these uh they're

203
00:08:40,070 --> 00:08:37,200
called soft dummy panels which there's

204
00:08:42,149 --> 00:08:40,080
nothing behind

205
00:08:46,230 --> 00:08:42,159
and it's a pretty uh

206
00:08:48,150 --> 00:08:46,240
pretty nice closet up here in space

207
00:08:50,310 --> 00:08:48,160
then if you look down

208
00:08:52,070 --> 00:08:50,320
you can see the deck the air lock there

209
00:08:55,509 --> 00:08:52,080
on the porch side

210
00:08:59,670 --> 00:08:55,519
and we'll just float on right down

211
00:09:03,590 --> 00:09:02,150
okay so now fly with me we're going to

212
00:09:04,550 --> 00:09:03,600
go to the

213
00:09:07,350 --> 00:09:04,560

uh

214
00:09:15,190 --> 00:09:07,360
we're going to go to the columbus