



1
00:00:00,506 --> 00:00:09,346
[Music]

2
00:00:09,846 --> 00:00:10,466
>> Greetings.

3
00:00:10,586 --> 00:00:12,166
This is Mission Control,
Houston.

4
00:00:12,166 --> 00:00:14,236
And welcome to Space
Station Live.

5
00:00:14,866 --> 00:00:18,136
It's Friday, October 25, 2013.

6
00:00:18,136 --> 00:00:19,436
And you're looking down inside

7
00:00:19,436 --> 00:00:21,866
of the International Space
Station flight control room

8
00:00:22,206 --> 00:00:24,216
at the Johnson Space
Center in Houston, TX.

9
00:00:25,486 --> 00:00:27,996
Inside the room right now,
the Orbit 2 team being led

10
00:00:27,996 --> 00:00:31,426
by Jerry Jason there in the
brown jacket on the right side.

11
00:00:32,246 --> 00:00:34,006
He's the Flight Director
for today's team.

12

00:00:34,466 --> 00:00:36,516

At the CAPCOM position
right above him,

13

00:00:36,656 --> 00:00:40,326

two CAPCOMs supporting the
crew today, Steve Bowen there

14

00:00:40,326 --> 00:00:42,486

at the top, NASA
astronaut supporting all

15

00:00:42,486 --> 00:00:44,726

of the ongoing spacesuit
activities.

16

00:00:45,066 --> 00:00:47,336

And right next to him also
supporting the crew today is

17

00:00:47,336 --> 00:00:48,166

Jay Marschke.

18

00:00:49,436 --> 00:00:51,736

On board the crew
of Expedition 37,

19

00:00:52,166 --> 00:00:54,546

led by Russian cosmonaut
Fyodor Yurchikhin there

20

00:00:54,546 --> 00:00:55,756

on the front row on the left.

21

00:00:56,336 --> 00:00:59,636

Also going across the back row
we have NASA astronaut Karen

22

00:00:59,636 --> 00:01:02,406

Nyberg, European
astronaut Luca Parmitano,

23

00:01:02,816 --> 00:01:06,076

NASA astronaut Mike Hopkins, and
then the two Russian cosmonauts

24

00:01:06,076 --> 00:01:09,686

over there on the right, Oleg
Kotov and Sergey Ryazanskiy.

25

00:01:11,046 --> 00:01:13,666

Some of the major activities
taking place onboard the

26

00:01:13,666 --> 00:01:16,296

International Space
Station this week focusing

27

00:01:16,296 --> 00:01:19,126

on departing vehicles and
also a lot of spacesuit

28

00:01:19,126 --> 00:01:20,546

and space walk preparation.

29

00:01:21,196 --> 00:01:25,546

Starting off with the departure
of the visiting vehicle Cygnus,

30

00:01:26,096 --> 00:01:28,336

managed by the Orbital
Sciences Corporation.

31

00:01:28,706 --> 00:01:31,986

It was unberthed from the
Harmony module back on Tuesday

32

00:01:31,986 --> 00:01:34,026

at 5:05 a.m. Central Time,

33

00:01:34,406 --> 00:01:37,626
released from the
station's robotic arm an hour

34

00:01:37,626 --> 00:01:41,216
and a half later at 6:31 a.m.
Central while the station was

35

00:01:41,216 --> 00:01:45,066
about 262 statute miles over
the Southern Atlantic Ocean.

36

00:01:45,616 --> 00:01:49,406
The craft, which was docked to
the International Space Station

37

00:01:49,406 --> 00:01:53,086
since September 29 when it
delivered about 1300 pounds

38

00:01:53,336 --> 00:01:56,326
of supplies to the
crew of Expedition 37.

39

00:01:56,756 --> 00:02:02,096
It was the final demonstration
milestone of Orbital Sciences

40

00:02:02,096 --> 00:02:03,606
under the commercial resupply --

41

00:02:04,266 --> 00:02:05,666
Commercial Orbital
Transportation

42

00:02:05,666 --> 00:02:06,836
Services contract.

43

00:02:07,746 --> 00:02:10,466

That flight, which was
executed flawlessly on its way

44

00:02:10,466 --> 00:02:14,846

to the station, again departed
on Tuesday and then a day later

45

00:02:14,846 --> 00:02:18,086

on Wednesday at around
12:41 p.m. Central time,

46

00:02:18,086 --> 00:02:20,736

Orbital Sciences flight
controllers commanded the

47

00:02:20,736 --> 00:02:22,646

vehicle to do a final
de-orbit burn

48

00:02:22,646 --> 00:02:24,376

and reenter the earth's
atmosphere.

49

00:02:25,136 --> 00:02:27,886

On board supporting
that work this week,

50

00:02:28,366 --> 00:02:31,456

NASA astronaut Mike Hopkins
was responsible on Monday

51

00:02:31,456 --> 00:02:36,076

to install the common berthing
mechanism controller assembly

52

00:02:36,746 --> 00:02:39,016

at the hatchway which
connected Cygnus

53

00:02:39,016 --> 00:02:40,736

to the earth-facing
side of Harmony.

54

00:02:41,206 --> 00:02:43,816

He was joined in a lot of
these activities on Monday

55

00:02:43,816 --> 00:02:46,066

by Luca Parmitano
and Karen Nyberg,

56

00:02:46,456 --> 00:02:48,066

who were responsible not only

57

00:02:48,066 --> 00:02:51,576

for operating the robotic arm
upon the vehicle's arrival,

58

00:02:51,576 --> 00:02:54,566

but also on Tuesday when
they prepared to release it.

59

00:02:55,396 --> 00:02:58,586

Also on Monday, Luca
Parmitano and Karen Nyberg,

60

00:02:58,586 --> 00:03:01,216

doing the final closeout
photos of the interior

61

00:03:01,216 --> 00:03:04,126

of the Cygnus vehicle
before moving on and closing

62

00:03:04,126 --> 00:03:05,866

up the hatch for the final time.

63

00:03:06,216 --> 00:03:07,946

You can see a little
bit of that right here

64

00:03:07,946 --> 00:03:10,866

as Parmitano is doing
the final hatch closures

65

00:03:10,866 --> 00:03:12,586

and then they conducted
a few leak checks

66

00:03:12,586 --> 00:03:13,696

with teams on the ground.

67

00:03:14,356 --> 00:03:15,846

All of that, again,
in preparation

68

00:03:15,846 --> 00:03:18,146

for that final unberthing
on Tuesday

69

00:03:18,706 --> 00:03:22,246

where Nyberg was responsible

70

00:03:22,246 --> 00:03:24,886

for configuring the
robotic work stations

71

00:03:24,886 --> 00:03:27,646

to control the station arm,
both from the Destiny laboratory

72

00:03:27,646 --> 00:03:30,576

and inside the cupola for that
Cygnum release and departure.

73

00:03:31,066 --> 00:03:33,216

She also set up the
hardware command panel,

74

00:03:33,506 --> 00:03:35,106
which gives the crew
the capability

75

00:03:35,106 --> 00:03:39,456
to send the unmanned cargo
craft any commands during its

76

00:03:39,456 --> 00:03:40,346
departure phase.

77

00:03:40,986 --> 00:03:43,776
Parmitano and Nyberg then
commanded the space station

78

00:03:43,776 --> 00:03:46,766
robotic arm in that
release, again releasing

79

00:03:46,766 --> 00:03:50,306
that Cygnus vehicle,
letting it depart

80

00:03:50,306 --> 00:03:51,856
from the International
Space Station

81

00:03:51,856 --> 00:03:54,946
at 6:31 a.m. Central
time back on Tuesday.

82

00:03:57,256 --> 00:04:00,846
The other major tasks consuming
a lot of crew time onboard both

83

00:04:00,846 --> 00:04:05,036
for the USOS crew and also
the Russians concerning a lot

84

00:04:05,506 --> 00:04:08,826

of upcoming space walk and
also a past space walk,

85

00:04:09,316 --> 00:04:14,816

spacesuit maintenance
with the station EMUs,

86

00:04:15,066 --> 00:04:16,916

with the extravehicular
mobility units.

87

00:04:16,916 --> 00:04:22,266

Mike Hopkins and Karen Nyberg
on Thursday completed a removal

88

00:04:22,266 --> 00:04:24,046

and replacement work on one

89

00:04:24,046 --> 00:04:28,106

of the fan pump separators
inside one of the US spacesuits.

90

00:04:28,366 --> 00:04:29,876

This one in particular was worn

91

00:04:29,876 --> 00:04:34,546

by European astronaut Luca
Parmitano during his July 16

92

00:04:34,546 --> 00:04:38,396

space walk, which was terminate
prematurely once Parmitano

93

00:04:38,396 --> 00:04:41,846

discovered a water leak
buildup inside of his helmet.

94

00:04:42,206 --> 00:04:45,806

Since that space walk, teams
down here on the ground

95

00:04:45,806 --> 00:04:49,186
in Houston and around NASA
have been analyzing the suit

96

00:04:49,186 --> 00:04:52,336
and building up fault trees
for potential culprits.

97

00:04:52,806 --> 00:04:55,476
This fan pump separator,
just one of the suspects

98

00:04:55,476 --> 00:05:00,366
that could potentially have been
responsible for that water leak.

99

00:05:00,836 --> 00:05:06,086
So the crew on board commanded
to replace that unit yesterday.

100

00:05:06,386 --> 00:05:09,286
And following that successful
replacement yesterday,

101

00:05:09,826 --> 00:05:13,446
NASA astronaut Mike
Hopkins is spending much

102

00:05:13,446 --> 00:05:18,476
of his day today doing a quick
verification of that work,

103

00:05:18,476 --> 00:05:20,556
checking out the fan
pump separator component

104

00:05:20,556 --> 00:05:23,416

and also how the water
separator loop inside

105

00:05:23,416 --> 00:05:24,826
of the spacesuit is operating.

106

00:05:25,156 --> 00:05:27,406
So they're going to have
work taking place on Thursday

107

00:05:27,406 --> 00:05:31,176
and all the verification work
being done today on Friday.

108

00:05:32,966 --> 00:05:34,986
Also on board the
International Space Station,

109

00:05:34,986 --> 00:05:37,296
two Russian cosmonauts,
Oleg Kotov

110

00:05:37,296 --> 00:05:39,646
and Sergey Ryazanskiy
have been preparing

111

00:05:39,646 --> 00:05:41,826
for an upcoming space
walk on November 9

112

00:05:42,316 --> 00:05:45,036
where the two will exit out of
the Pirs docking compartment

113

00:05:45,036 --> 00:05:48,046
on the Russian segment for
a spacewalk highlighted

114

00:05:48,046 --> 00:05:52,026
by the two taking a replica

of the Olympic torch outside.

115

00:05:52,456 --> 00:05:54,216

You can see the spacewalk times there.

116

00:05:54,216 --> 00:05:55,896

That again coming up on November 9.

117

00:05:56,376 --> 00:05:59,096

The two have been preparing for this,

118

00:05:59,546 --> 00:06:01,386

which we will be bringing you coverage

119

00:06:01,386 --> 00:06:03,286

of that spacewalk on NASA TV.

120

00:06:03,366 --> 00:06:07,036

The two preparing for this all week starting off on Monday,

121

00:06:07,036 --> 00:06:10,296

gathering up a number of the tools that they'll be needing

122

00:06:10,776 --> 00:06:13,426

for that spacewalk and any other relevant hardware.

123

00:06:13,906 --> 00:06:18,316

Also gathering the spacesuits inside of the airlock

124

00:06:18,316 --> 00:06:21,996

for Oleg Kotov to do some configuration of the suits

125

00:06:22,626 --> 00:06:26,146
on Wednesday and also with
the airlock activating

126

00:06:26,146 --> 00:06:29,126
and inspecting their Orlan
spacesuits on Thursday.

127

00:06:29,726 --> 00:06:31,826
And also recharging
all the water systems

128

00:06:31,826 --> 00:06:33,016
and batteries inside.

129

00:06:33,986 --> 00:06:37,046
Oleg Kotov also on Thursday
doing some leak checks

130

00:06:37,046 --> 00:06:38,496
on the Pirs docking compartment.

131

00:06:38,496 --> 00:06:39,636
And again, the airlock

132

00:06:39,636 --> 00:06:42,246
that they'll be conducting
the space walk out of.

133

00:06:42,246 --> 00:06:46,026
And also checking out any of the
interface equipment responsible

134

00:06:46,026 --> 00:06:49,096
for interacting with their
suits inside of the airlock.

135

00:06:49,536 --> 00:06:52,156

Again, all that in preparation
for an upcoming space walk

136

00:06:52,276 --> 00:06:54,026
by the two Russians, Oleg Kotov

137

00:06:54,026 --> 00:06:56,356
and Sergey Ryazanskiy
on November 9.

138

00:06:58,456 --> 00:07:01,316
Other activities taking place
onboard the International Space

139

00:07:01,316 --> 00:07:04,406
Station, NASA astronaut
Mike Hopkins back

140

00:07:04,406 --> 00:07:06,906
on Tuesday was gathering
up some of the tools

141

00:07:06,906 --> 00:07:11,576
out of the Quest airlock
for the space station EMUs.

142

00:07:11,976 --> 00:07:15,056
Also conducting a
capillary flow experiment.

143

00:07:15,646 --> 00:07:17,866
You can see some quick
video of that here.

144

00:07:17,866 --> 00:07:20,856
It's a fluid physics experiment
onboard the International Space

145

00:07:20,856 --> 00:07:23,416
Station that investigates

a phenomenon known

146

00:07:23,416 --> 00:07:26,786

as capillary flow, which
is used to transfer fluids

147

00:07:26,786 --> 00:07:28,146

in the absence of gravity.

148

00:07:28,756 --> 00:07:32,216

This, an ongoing investigation
hoping to improve current models

149

00:07:32,216 --> 00:07:35,456

down here on the ground
that are used by designers

150

00:07:35,456 --> 00:07:38,076

for fluid transfer systems
such as fuel transfer

151

00:07:38,556 --> 00:07:41,296

and also other liquid
transfers for experiments

152

00:07:41,296 --> 00:07:44,706

in crew use onboard space craft.

153

00:07:45,016 --> 00:07:47,646

So having some pretty important
implications in the design

154

00:07:47,646 --> 00:07:52,316

of future space craft for not
only space station systems,

155

00:07:52,546 --> 00:07:54,236

but also long-duration flights

156

00:07:54,426 --> 00:07:56,946

to far off exploration
destinations.

157

00:07:58,076 --> 00:08:03,596

On Wednesday, Hopkins was doing
some biology experiment work

158

00:08:03,596 --> 00:08:05,856

on his own body,
collecting his vital signs,

159

00:08:05,856 --> 00:08:09,116

which he'll be doing
throughout his increment

160

00:08:09,116 --> 00:08:11,906

on board the International Space
Station, taking simple things

161

00:08:11,906 --> 00:08:13,326

like blood pressure
and temperature

162

00:08:13,736 --> 00:08:15,236

as these astronauts
constantly have

163

00:08:15,236 --> 00:08:17,416

to monitor their
health their increments.

164

00:08:17,806 --> 00:08:21,386

And he was also doing
some extra maintenance

165

00:08:21,736 --> 00:08:25,956

on both suits currently
inside of the Quest airlock.

166

00:08:25,956 --> 00:08:29,946

He was scrubbing out the cooling water loops both those EMUs,

167

00:08:29,946 --> 00:08:32,706

the one of which he's been focusing on with

168

00:08:32,706 --> 00:08:35,016

that fan pump separator over the last few days.

169

00:08:35,406 --> 00:08:39,106

Also doing some maintenance work on the airlock itself.

170

00:08:39,656 --> 00:08:45,696

And then today, aside from that checkout and verification work

171

00:08:45,696 --> 00:08:49,356

on the spacesuit to verify all the work that he

172

00:08:49,356 --> 00:08:50,976

and Karen Nyberg did yesterday,

173

00:08:51,366 --> 00:08:53,606

Hopkins will be doing an ultrasound

174

00:08:53,606 --> 00:08:56,146

of his eye using the station's ultrasound system.

175

00:08:58,266 --> 00:09:02,046

Meanwhile, Luca Parmitano, back on Tuesday set up the EarthCam,

176

00:09:02,046 --> 00:09:04,656

or the earth knowledge acquired
by middle school students,

177

00:09:05,656 --> 00:09:07,546

allowing middle school
students around the world

178

00:09:07,546 --> 00:09:10,666

to request images of various
locations of the earth,

179

00:09:10,666 --> 00:09:14,556

a project that was
initiated by Dr. Sally Ride,

180

00:09:14,556 --> 00:09:15,966

America's first woman in space.

181

00:09:16,426 --> 00:09:18,286

You can learn more about
the EarthCam and sign

182

00:09:18,286 --> 00:09:20,906

up for those missions, one
of which ran all this week.

183

00:09:20,906 --> 00:09:26,556

They do about four per year
at www.earthcam.ucsd.edu.

184

00:09:28,276 --> 00:09:33,166

On Wednesday Parmitano collecting
some biological samples,

185

00:09:33,706 --> 00:09:37,256

also performing the Skin
B experiment which looking

186

00:09:37,256 --> 00:09:40,716

to contribute to a better

understanding of the mechanisms

187

00:09:40,716 --> 00:09:44,066

of skin aging, something
that happens very slowly here

188

00:09:44,066 --> 00:09:47,756

on earth but is accelerated a
great deal in weightlessness.

189

00:09:48,206 --> 00:09:50,716

So taking advantage of that
microgravity environment.

190

00:09:51,296 --> 00:09:54,786

Parmitano also back on
Thursday, participating

191

00:09:54,786 --> 00:09:56,796

in the circadian
rhythms experiment,

192

00:09:57,186 --> 00:09:58,916

looking to gain a
better understanding

193

00:09:58,916 --> 00:10:01,766

of how the microgravity and
the long durations spent

194

00:10:01,766 --> 00:10:06,586

in it affects the astronaut's
sleep cycle and any effect

195

00:10:06,586 --> 00:10:08,026

that that has on
their performance

196

00:10:08,026 --> 00:10:09,566

and healthcare during

their missions.

197

00:10:10,636 --> 00:10:14,126

Meanwhile today, Luca Parmitano taking a few more biological

198

00:10:14,126 --> 00:10:17,726

samples and also getting ready for the departure

199

00:10:17,726 --> 00:10:19,646

of another unmanned cargo craft docked

200

00:10:19,646 --> 00:10:22,786

to the International Space Station, the European ATV 4,

201

00:10:23,236 --> 00:10:24,786

also known as Albert Einstein.

202

00:10:25,236 --> 00:10:30,016

That's set to depart -- undock and depart from the aft port

203

00:10:30,016 --> 00:10:32,936

of the Zvezda service module after being docked

204

00:10:32,936 --> 00:10:35,206

for about four months to the orbiting complex.

205

00:10:35,676 --> 00:10:39,656

It delivered more than seven tons of food, fuel, and supplies

206

00:10:39,656 --> 00:10:41,736

to the International Space Station residents.

207

00:10:42,066 --> 00:10:44,496

That undocking, which we'll
be bringing you coverage here

208

00:10:44,496 --> 00:10:46,116

on NASA TV currently targeted

209

00:10:46,116 --> 00:10:50,296

for 3:59 a.m. Central
time, 4:49 a.m. Eastern.

210

00:10:52,416 --> 00:10:55,016

Karen Nyberg, throughout
the week focusing again

211

00:10:55,016 --> 00:10:57,596

on those Cygnus ops
early in the week

212

00:10:57,596 --> 00:10:59,756

and assisting in the EMU repair.

213

00:11:00,316 --> 00:11:02,396

Aside from that,
back on Tuesday,

214

00:11:02,396 --> 00:11:05,786

she was conducting the
resist tubule experiment,

215

00:11:05,786 --> 00:11:07,176

which she's also doing today.

216

00:11:07,626 --> 00:11:10,226

That's a Japanese
experiment taking place inside

217

00:11:10,226 --> 00:11:12,906

of the Japanese experiment
module that looks

218

00:11:12,906 --> 00:11:15,646

at the mechanisms of
gravity resistance in plants,

219

00:11:16,426 --> 00:11:20,336

something that could potentially
impact the future ability

220

00:11:20,416 --> 00:11:23,296

of astronauts on long-duration
missions to grow plants

221

00:11:23,296 --> 00:11:25,446

and their own food
in spacecraft.

222

00:11:26,096 --> 00:11:28,906

Also, back on Wednesday,
taking some blood samples

223

00:11:28,906 --> 00:11:30,396

for the vascular experiment,

224

00:11:30,916 --> 00:11:32,546

which looks to determine
the impact

225

00:11:32,546 --> 00:11:35,216

of long-duration space
flights on the blood vessels

226

00:11:35,216 --> 00:11:38,526

of astronauts and also develop
any potential countermeasures.

227

00:11:40,576 --> 00:11:43,926

Expedition 37 Commander

Fyodor Yurchikhin doing a lot

228

00:11:43,926 --> 00:11:46,926
of maintenance work throughout
the Russian segment this week.

229

00:11:47,326 --> 00:11:49,596
Back on Monday, he was
inspecting a number

230

00:11:49,636 --> 00:11:52,116
of the Russian controlling
laptops and computers,

231

00:11:52,446 --> 00:11:55,746
and also conducting a Com
test of his Soyuz craft.

232

00:11:56,306 --> 00:11:59,126
Yurchikhin's scheduled
to return to earth coming

233

00:11:59,126 --> 00:12:03,236
up on November 10 alongside
Luca Parmitano and Karen Nyberg.

234

00:12:03,856 --> 00:12:06,446
But on Tuesday picked
up with a lot

235

00:12:06,446 --> 00:12:08,846
of his maintenance activities
doing some preventative

236

00:12:08,846 --> 00:12:11,636
maintenance on the
Zvezda service module's

237

00:12:11,636 --> 00:12:12,796
ventilation systems.

238

00:12:13,396 --> 00:12:17,316

Also continuing that into
Wednesday while also doing a

239

00:12:17,366 --> 00:12:20,816

quick study of the veins in
his lower extremities for part

240

00:12:20,816 --> 00:12:22,476

of a Russian biological
experiment.

241

00:12:23,146 --> 00:12:26,316

On Thursday collecting surface
samples from inside of Zarya

242

00:12:26,316 --> 00:12:32,166

and Zvezda for downlink down
to the ground for controllers

243

00:12:32,166 --> 00:12:34,116

to keep an eye on
the environment

244

00:12:34,116 --> 00:12:36,126

of the International Space
Station for the crew.

245

00:12:36,686 --> 00:12:40,016

And then today he's doing
a cardiovascular evaluation

246

00:12:40,016 --> 00:12:42,276

on himself during
some exercise on one

247

00:12:42,276 --> 00:12:44,156

of the station's
stationary cycles.

248

00:12:44,516 --> 00:12:48,196

And also pre-packing some items,
again, for that upcoming return

249

00:12:48,556 --> 00:12:50,426

on the Soyuz craft
back down to earth.

250

00:12:51,836 --> 00:12:56,216

Meanwhile Oleg Kotov spending
much of his week preparing

251

00:12:56,216 --> 00:12:58,216

for that upcoming
November 9 space walk.

252

00:12:58,656 --> 00:13:02,176

Also getting some time in to do
some experiment work throughout

253

00:13:02,176 --> 00:13:02,606

the week.

254

00:13:03,016 --> 00:13:05,676

Back on Tuesday, he was
gathering some readings

255

00:13:05,676 --> 00:13:09,086

from dosimeters inside of the
Russian Metroyska experiment,

256

00:13:09,406 --> 00:13:11,486

which looks to track
the radiation dosages

257

00:13:11,486 --> 00:13:13,236

that these astronauts
are exposed to.

258

00:13:13,826 --> 00:13:16,806

On Wednesday, collecting some blood and saliva samples.

259

00:13:17,176 --> 00:13:20,986

But then today, on Friday, he's assisting Luca Parmitano in all

260

00:13:20,986 --> 00:13:23,166

of the preparation work for the departure of ATV

261

00:13:23,166 --> 00:13:25,866

and helping him close out the hatchway

262

00:13:25,866 --> 00:13:27,296

to it for one final time.

263

00:13:27,526 --> 00:13:31,206

And then the final crew member, Sergey Ryazanskiy focused

264

00:13:31,206 --> 00:13:32,646

on that November 9 space walk

265

00:13:32,706 --> 00:13:35,776

but also conducting a few experiments throughout the week,

266

00:13:36,366 --> 00:13:39,316

namely back on Wednesday, he was participating

267

00:13:39,316 --> 00:13:42,456

in the Seiner investigation doing observations

268

00:13:42,456 --> 00:13:44,316

of the world's oceans
for searching

269
00:13:44,546 --> 00:13:46,726
for bioproductive water areas.

270
00:13:47,186 --> 00:13:50,636
And then today, on Friday, he'll
be conducting the BAR experiment

271
00:13:50,636 --> 00:13:53,596
which looks to develop
effective ways

272
00:13:53,596 --> 00:13:56,156
of determining any
depressurization

273
00:13:56,156 --> 00:13:58,356
that might happen inside
of station modules,

274
00:13:58,836 --> 00:14:01,466
basically a safety task
for these astronauts

275
00:14:01,736 --> 00:14:04,316
and cosmonauts during
long-duration space flights

276
00:14:04,316 --> 00:14:05,996
on the International
Space Station.

277
00:14:06,416 --> 00:14:09,176
So again, a busy week saw
the departure of one craft,

278
00:14:09,516 --> 00:14:12,586
preparation for the departure of

another un-manned cargo vehicle.

279

00:14:12,956 --> 00:14:16,856

A lot of work being done on the spacesuits for these astronauts

280

00:14:16,856 --> 00:14:19,756

and cosmonauts in preparation for a space walk coming