1
00:00:04,230 --> 00:00:02,550
good day this is mission control houston

2
00:00:05,910 --> 00:00:04,240
welcome and thank you for joining us for

3
00:00:08,310 --> 00:00:05,920
a look back at this week aboard the

4
00:00:10,470 --> 00:00:08,320
international space station

5
00:00:11,910 --> 00:00:10,480
we're getting a view inside the

6
00:00:13,830 --> 00:00:11,920
international space station flight

7
00:00:15,270 --> 00:00:13,840
control room where the team has been

8
00:00:16,790 --> 00:00:15,280
monitoring the systems aboard the

9
00:00:19,189 --> 00:00:16,800
station and supporting the day's

10
00:00:20,950 --> 00:00:19,199
activities of the expedition 32 crew

11
00:00:24,230 --> 00:00:20,960
members

12
00:00:25,990 --> 00:00:24,240
include nasa astronaut and commander of

13
00:00:28,630 --> 00:00:26,000

the complex sunny williams and flight

14
00:00:31,910 --> 00:00:28,640
engineers cosmonaut yuri malenchenko

15
00:00:34,069 --> 00:00:31,920
japanese astronaut aki hoshide and now

16
00:00:36,790 --> 00:00:34,079
nasa astronaut kevin ford shown here on

17
00:00:39,190 --> 00:00:36,800
the right cosmonauts oleg novitskiy and

18
00:00:42,709 --> 00:00:39,200
evgeny tarelkin

19
00:00:45,430 --> 00:00:42,719
the newest crew members of expedition 33

20
00:00:46,790 --> 00:00:45,440
ford novitskiy and tarelkin had arrived

21
00:00:49,430 --> 00:00:46,800
at the international space station

22
00:00:51,029 --> 00:00:49,440
aboard their soyuz tma-06m

23
00:00:52,630 --> 00:00:51,039
and docked to the poisk module of the

24
00:00:54,709 --> 00:00:52,640
space station

25
00:00:57,590 --> 00:00:54,719
yesterday morning followed by a hatch

26
00:01:00,310 --> 00:00:57,600
opening at about 10 08 a.m central time

27
00:01:02,069 --> 00:01:00,320
the new trio will up close their first

28
00:01:03,349 --> 00:01:02,079
full day aboard the international space

29
00:01:05,270 --> 00:01:03,359
station today

30
00:01:06,710 --> 00:01:05,280
meanwhile aboard the station to greet

31
00:01:08,789 --> 00:01:06,720
their new crew members williams

32
00:01:13,990 --> 00:01:08,799
malenchenko and hoshide will complete

33
00:01:17,830 --> 00:01:15,830
and now let's look back at this week

34
00:01:19,350 --> 00:01:17,840
aboard the international space station

35
00:01:21,109 --> 00:01:19,360
on monday

36
00:01:23,830 --> 00:01:21,119
three new crew members had prepared to

37
00:01:25,830 --> 00:01:23,840
join their expedition 33 crewmates

38
00:01:27,190 --> 00:01:25,840

onboard the international space station

39
00:01:28,469 --> 00:01:27,200
they were scheduled to launch aboard

40
00:01:31,350 --> 00:01:28,479
their soyuz

41
00:01:34,310 --> 00:01:31,360
spacecraft that early that tuesday

42
00:01:36,870 --> 00:01:34,320
morning at 5 51 a.m central time

43
00:01:38,870 --> 00:01:36,880
the new trio would later this week join

44
00:01:44,789 --> 00:01:38,880
commander suni williams and flight

45
00:01:49,510 --> 00:01:46,789
meanwhile the spacex dragon cargo

46
00:01:51,429 --> 00:01:49,520
capsule is uh was due to undock and

47
00:01:53,830 --> 00:01:51,439
leave the station on sunday for return

48
00:01:59,109 --> 00:01:53,840
to earth and recovery in the pacific

49
00:02:04,709 --> 00:02:01,670
and also a russian resupply craft the

50
00:02:08,550 --> 00:02:04,719
iss progress 49 is due for launch and

51
00:02:09,830 --> 00:02:08,560
docking on october 31st

52
00:02:12,710 --> 00:02:09,840
meanwhile while the traffic at the

53
00:02:16,309 --> 00:02:12,720
station is heavy the crew also began

54
00:02:18,470 --> 00:02:16,319
preparing for a november first spacewalk

55
00:02:20,869 --> 00:02:18,480
williams and houston will work outside

56
00:02:23,270 --> 00:02:20,879
to repair an ammonia leak on a port side

57
00:02:25,510 --> 00:02:23,280
radiator there'll be a briefing later

58
00:02:27,670 --> 00:02:25,520
this afternoon on nasa television at 1

59
00:02:30,869 --> 00:02:27,680
pm central time to discuss that

60
00:02:30,879 --> 00:02:33,830
that repair

61
00:02:37,430 --> 00:02:35,670
also on monday flight engineer yuri

62
00:02:39,589 --> 00:02:37,440
malenchenko had stayed busy in the

63
00:02:41,750 --> 00:02:39,599

russian segment of the space station

64
00:02:43,589 --> 00:02:41,760
he had a focused on routine maintenance

65
00:02:45,509 --> 00:02:43,599
and uh science while conducting his

66
00:02:48,830 --> 00:02:45,519
daily exercise regime

67
00:02:51,830 --> 00:02:48,840
he also inventoried and stowed gear from

68
00:02:53,350 --> 00:02:51,840
the space station progress 48 resupply

69
00:02:55,350 --> 00:02:53,360
craft

70
00:02:57,750 --> 00:02:55,360
then on tuesday

71
00:03:00,149 --> 00:02:57,760
three new crew members began their trek

72
00:03:02,070 --> 00:03:00,159
to join their expedition 33 crewmates

73
00:03:04,790 --> 00:03:02,080
aboard the international space station

74
00:03:06,390 --> 00:03:04,800
they launched aboard the soyuz tma-06m

75
00:03:09,509 --> 00:03:06,400
spacecraft

76
00:03:11,830 --> 00:03:09,519
from the baikonur cosmodrome kazakhstan

77
00:03:13,270 --> 00:03:11,840
williams hoshide and malenchenko were

78
00:03:14,949 --> 00:03:13,280
busy with their daily science and

79
00:03:17,430 --> 00:03:14,959
maintenance task

80
00:03:20,390 --> 00:03:17,440
williams had repaired a leaky valve in

81
00:03:22,710 --> 00:03:20,400
the carbon dioxide removal assembly she

82
00:03:24,470 --> 00:03:22,720
also conducted a robotics test in

83
00:03:27,030 --> 00:03:24,480
cooperation with the european space

84
00:03:28,949 --> 00:03:27,040
agency

85
00:03:31,350 --> 00:03:28,959
williams then worked on the viable

86
00:03:34,789 --> 00:03:31,360
experiment which evaluates microbial

87
00:03:38,070 --> 00:03:34,799
biofilm development on space materials

88
00:03:40,949 --> 00:03:38,080

and hoshide worked in the kibo lab

89
00:03:44,550 --> 00:03:40,959
to retrieve biological samples from a

90
00:03:47,430 --> 00:03:44,560
science freezer for the racist tubal

91
00:03:49,509 --> 00:03:47,440
experiment he also exercised for the vo2

92
00:03:51,110 --> 00:03:49,519
max experiment which measures an

93
00:03:53,030 --> 00:03:51,120
astronaut's aerobic capacity in

94
00:03:55,110 --> 00:03:53,040
microgravity

95
00:03:57,270 --> 00:03:55,120
then williams and hoshide got together

96
00:03:58,789 --> 00:03:57,280
tuesday to review departure procedures

97
00:04:01,270 --> 00:03:58,799
for the first commercial cargo craft to

98
00:04:04,229 --> 00:04:01,280
visit the station

99
00:04:06,789 --> 00:04:04,239
and malenchenko had later that afternoon

100
00:04:09,110 --> 00:04:06,799
uh joined his crewmates for a fit check

101
00:04:10,949 --> 00:04:09,120
of the soyuz cosby seats

102
00:04:12,869 --> 00:04:10,959
that they will be using when they leave

103
00:04:15,830 --> 00:04:12,879
the station on november 12 for their

104
00:04:18,310 --> 00:04:15,840
return home he also collected saliva and

105
00:04:20,949 --> 00:04:18,320
blood samples for russian experiment

106
00:04:22,390 --> 00:04:20,959
and then conducted a video test in the

107
00:04:25,590 --> 00:04:22,400
russian segment of the station and

108
00:04:27,030 --> 00:04:25,600
worked ongoing maintenance

109
00:04:29,510 --> 00:04:27,040
then on wednesday

110
00:04:32,230 --> 00:04:29,520
commander williams spent the first part

111
00:04:34,469 --> 00:04:32,240
of our day on the vo2 max experiment

112
00:04:35,749 --> 00:04:34,479
again that experiment observes a crew

113
00:04:37,670 --> 00:04:35,759

members

114
00:04:41,110 --> 00:04:37,680
exercising to measure their aerobic

115
00:04:42,950 --> 00:04:41,120
capacity she also visually analyzed

116
00:04:44,870 --> 00:04:42,960
samples of microbes that were collected

117
00:04:46,710 --> 00:04:44,880
from an incubator for the micro 6

118
00:04:48,870 --> 00:04:46,720
experiment

119
00:04:50,629 --> 00:04:48,880
williams then joined hoshide for a

120
00:04:53,189 --> 00:04:50,639
conference with ground experts to review

121
00:04:55,749 --> 00:04:53,199
the procedures for november 1 spacewalk

122
00:05:00,230 --> 00:04:55,759
again that's to repair an ammonia leak

123
00:05:04,310 --> 00:05:02,390
hose today on wednesday worked with

124
00:05:06,469 --> 00:05:04,320
microbe samples

125
00:05:09,110 --> 00:05:06,479
that were collected for japan's microbe

126
00:05:11,990 --> 00:05:09,120
3 experiment that study seeks a cleaner

127
00:05:15,110 --> 00:05:12,000
cabin environment and monitors the

128
00:05:18,230 --> 00:05:15,120
diversity of microbial life by sampling

129
00:05:20,550 --> 00:05:18,240
surfaces inside the kibo laboratory he

130
00:05:22,710 --> 00:05:20,560
also pre-packed gear for stowage inside

131
00:05:25,110 --> 00:05:22,720
the dragon capsule before its sunday

132
00:05:27,590 --> 00:05:25,120
release he finally cleaned water in

133
00:05:30,150 --> 00:05:27,600
preparation for the arrival of fish that

134
00:05:33,990 --> 00:05:30,160
came aboard that soyuz tm06m for the

135
00:05:37,830 --> 00:05:36,070
then on thursday

136
00:05:40,469 --> 00:05:37,840
three new crew members joined their

137
00:05:43,189 --> 00:05:40,479
expedition 33 crewmates after docking

138
00:05:44,710 --> 00:05:43,199

that soyuz spacecraft the poisk module

139
00:05:47,749 --> 00:05:44,720
thursday morning

140
00:05:49,510 --> 00:05:47,759
they joined commander suni williams

141
00:05:51,430 --> 00:05:49,520
and flight engineers aki hoshide and

142
00:05:56,230 --> 00:05:51,440
yuri malenchenko who've been residing at

143
00:05:59,990 --> 00:05:58,309
crew joined them when hatches between

144
00:06:04,150 --> 00:06:00,000
both vehicles were opened a few hours

145
00:06:09,590 --> 00:06:07,189
expedition 33 will be a six-member crew

146
00:06:12,070 --> 00:06:09,600
until november 12 when williams hoshide

147
00:06:14,870 --> 00:06:12,080
and malenchenko undock from the rassvet

148
00:06:17,909 --> 00:06:14,880
module and return home inside the soyuz

149
00:06:20,309 --> 00:06:17,919
tma-05m spacecraft for their landing in

150
00:06:22,870 --> 00:06:20,319
kazakhstan

151
00:06:26,150 --> 00:06:22,880
when they undock expedition

152
00:06:27,830 --> 00:06:26,160
34 will officially begin as ford becomes

153
00:06:30,550 --> 00:06:27,840
commander staying behind with that

154
00:06:33,110 --> 00:06:30,560
novitskiy and tarelkin finally returning

155
00:06:35,110 --> 00:06:33,120
home in march of 2013.

156
00:06:36,710 --> 00:06:35,120
meanwhile on thursday back on earth

157
00:06:38,950 --> 00:06:36,720
three more crew members were in star

158
00:06:40,790 --> 00:06:38,960
city russia training for their december

159
00:06:43,189 --> 00:06:40,800
5th launch

160
00:06:45,909 --> 00:06:43,199
to return the station to the six member

161
00:06:48,230 --> 00:06:45,919
crew veteran astronauts chris hadfield

162
00:06:50,710 --> 00:06:48,240
and tom marshburn along with veteran

163
00:06:53,430 --> 00:06:50,720

cosmonaut roman romanenko

164
00:06:55,350 --> 00:06:53,440
will complete the expedition 34 crew and

165
00:06:58,629 --> 00:06:55,360
then they will start the expedition 35

166
00:07:02,870 --> 00:07:00,790
then on friday today commander williams

167
00:07:04,390 --> 00:07:02,880
had begun handover activities and

168
00:07:06,950 --> 00:07:04,400
instruction with the newly arrived

169
00:07:08,629 --> 00:07:06,960
flight engineer kevin ford he will later

170
00:07:11,110 --> 00:07:08,639
become commander of the orbiting complex

171
00:07:12,950 --> 00:07:11,120
next month williams spent some time this

172
00:07:15,430 --> 00:07:12,960
morning working with a couple of ongoing

173
00:07:16,870 --> 00:07:15,440
science investigations meteoron and

174
00:07:18,790 --> 00:07:16,880
micro six

175
00:07:20,070 --> 00:07:18,800
she and flight engineer aki hoshide will

176
00:07:22,870 --> 00:07:20,080
also

177
00:07:25,670 --> 00:07:22,880
have a review of the dynamic onboard

178
00:07:27,909 --> 00:07:25,680
ubiquitous graphics software also known

179
00:07:29,510 --> 00:07:27,919
as doug this is visual simulation

180
00:07:31,510 --> 00:07:29,520
software that is used for spacewalk

181
00:07:34,469 --> 00:07:31,520
planning and

182
00:07:37,589 --> 00:07:34,479
review of station robotic arm operations

183
00:07:39,589 --> 00:07:37,599
in this case the the pair

184
00:07:41,430 --> 00:07:39,599
are reviewing operations for the unbirth

185
00:07:43,749 --> 00:07:41,440
and release of the spacex dragon

186
00:07:44,950 --> 00:07:43,759
spacecraft that arrived back on october

187
00:07:47,029 --> 00:07:44,960
10th

188
00:07:49,110 --> 00:07:47,039

they also will participate in an onboard

189
00:07:50,629 --> 00:07:49,120
training session of dragon's departure

190
00:07:52,469 --> 00:07:50,639
followed by a conference with the ground

191
00:07:55,589 --> 00:07:52,479
today

192
00:08:00,469 --> 00:07:58,150
hoshide will participate in cargo ops

193
00:08:03,350 --> 00:08:00,479
conference to discuss return items

194
00:08:05,749 --> 00:08:03,360
pre-packed and dragon car cargo craft

195
00:08:08,150 --> 00:08:05,759
did that unbirthing and release of the

196
00:08:10,230 --> 00:08:08,160
dragon is scheduled to occur on sunday

197
00:08:11,909 --> 00:08:10,240
we'll bring live coverage of the m birth

198
00:08:14,469 --> 00:08:11,919
and release here on nasa television

199
00:08:17,029 --> 00:08:14,479
beginning at 6 am

200
00:08:19,909 --> 00:08:17,039
the station arm is scheduled to release

201
00:08:22,390 --> 00:08:19,919
the commercial cargo craft at 8 26 am

202
00:08:25,589 --> 00:08:22,400
central time followed by a splashdown

203
00:08:29,990 --> 00:08:25,599
west of baja california later sunday

204
00:08:32,469 --> 00:08:30,000
afternoon at 2 20 pm central time

205
00:08:33,990 --> 00:08:32,479
also today hoshide had spent some time

206
00:08:36,149 --> 00:08:34,000
this morning working with the aquatic

207
00:08:38,550 --> 00:08:36,159
habitat science facility that is being

208
00:08:40,709 --> 00:08:38,560
used to look at how microgravity affects

209
00:08:42,149 --> 00:08:40,719
marine life

210
00:08:43,589 --> 00:08:42,159
meanwhile the newest residents of the

211
00:08:45,509 --> 00:08:43,599
space station spent some time this

212
00:08:47,670 --> 00:08:45,519
morning setting up their crew quarters

213
00:08:48,949 --> 00:08:47,680

and bringing items aboard the station

214
00:08:51,030 --> 00:08:48,959
that were brought up

215
00:08:53,509 --> 00:08:51,040
with them aboard their soyuz spacecraft

216
00:08:55,269 --> 00:08:53,519
flight engineer ford participated in his

217
00:08:56,470 --> 00:08:55,279
first private medical conference and

218
00:08:57,990 --> 00:08:56,480
began a

219
00:09:00,150 --> 00:08:58,000
setup and review

220
00:09:01,750 --> 00:09:00,160
for the elite scientific study that

221
00:09:04,230 --> 00:09:01,760
looks at the connection between brain

222
00:09:05,670 --> 00:09:04,240
visualization and motion in the absence

223
00:09:08,470 --> 00:09:05,680
of gravity

224
00:09:10,710 --> 00:09:08,480
again the six member expedition 33 crew

225
00:09:13,269 --> 00:09:10,720
will now settle back to its normal

226
00:09:17,590 --> 00:09:13,279
station operations clock with a bedtime

227
00:09:21,110 --> 00:09:19,190
and that's a look back at this week