



1
00:00:01,710 --> 00:00:04,180
Good morning, this is
Mission Control Houston.

2
00:00:04,180 --> 00:00:05,840
Welcome and thank
you for joining us.

3
00:00:05,840 --> 00:00:09,150
Now for a look back at this
week aboard the International

4
00:00:09,150 --> 00:00:11,130
Space Station.

5
00:00:11,130 --> 00:00:14,300
The six crew members aboard
the station include Russian

6
00:00:14,300 --> 00:00:16,770
cosmonaut Commander of the
complex Gennady Padalka

7
00:00:16,770 --> 00:00:21,270
and Flight Engineers cosmonaut
Sergei Revin NASA astronaut Joe

8
00:00:21,270 --> 00:00:25,410
Acaba and now cosmonaut
Yuri Malenchenko,

9
00:00:25,410 --> 00:00:30,400
NASA astronaut Suni Williams and
Japanese astronaut Aki Hoshide.

10
00:00:30,400 --> 00:00:34,940
The newest crew members of
Expedition 32 Malenchenko,

11

00:00:34,940 --> 00:00:36,770
Williams and Hoshide arrived

12
00:00:36,770 --> 00:00:39,220
at the International Space
Station aboard their Soyuz

13
00:00:39,220 --> 00:00:42,380
TMA-05M and docked
to the Rassvet module

14
00:00:42,380 --> 00:00:48,330
of the space station at
11:51 PM late Monday night.

15
00:00:48,330 --> 00:00:50,700
Then the hatches opened
early Tuesday morning

16
00:00:50,700 --> 00:00:54,410
at 2:23 central time.

17
00:00:54,410 --> 00:00:58,700
The new trio will close the
first week in space today

18
00:00:58,700 --> 00:01:01,940
and meanwhile aboard the station
to greet their new crew members,

19
00:01:01,940 --> 00:01:05,760
Padalka Revin and Acaba will be
completing their 68 consecutive

20
00:01:05,760 --> 00:01:06,970
day in space.

21
00:01:06,970 --> 00:01:12,780
And now let's look back at this
week aboard the International

22

00:01:12,780 --> 00:01:14,050

Space Station.

23

00:01:14,050 --> 00:01:17,540

On Monday the station crew had a shorter day

24

00:01:17,540 --> 00:01:21,090

with a sleep period six hours earlier than normal

25

00:01:21,090 --> 00:01:24,670

to accommodate the arrival of the three new crewmates.

26

00:01:25,810 --> 00:01:29,020

Before their early sleep period the station crew members worked

27

00:01:29,020 --> 00:01:30,560

with a variety of ongoing science

28

00:01:30,560 --> 00:01:33,300

and maintenance activities.

29

00:01:33,300 --> 00:01:35,840

Revin had worked with the radiation payloads suite

30

00:01:35,840 --> 00:01:39,730

Matryoshka which is designed for sophisticated radiation study

31

00:01:39,730 --> 00:01:42,680

and is named after the traditional Russian set

32

00:01:42,680 --> 00:01:44,280
of nested dolls.

33
00:01:44,280 --> 00:01:46,480
And Commander Padalka worked
in the Russian segment

34
00:01:46,480 --> 00:01:48,590
of the station monitoring
its systems

35
00:01:48,590 --> 00:01:50,190
and performing preventative
maintenance

36
00:01:50,190 --> 00:01:54,540
on the ventilation system while
Acaba perform some training

37
00:01:54,540 --> 00:01:57,010
with the robotics
onboard trainer.

38
00:01:57,010 --> 00:01:58,900
This is to prepare for
the rendezvous and capture

39
00:01:58,900 --> 00:02:03,730
at the Japanese Aerospace
Exploration Agency's third H-II

40
00:02:03,730 --> 00:02:07,380
transfer vehicle that is set to
launch to the station tonight

41
00:02:07,380 --> 00:02:09,630
at 9:06 PM central time.

42
00:02:09,630 --> 00:02:11,560
Acaba also performed

some maintenance

43

00:02:11,560 --> 00:02:16,310
on the express rack 5
utility drawer lid hatches.

44

00:02:16,310 --> 00:02:18,940
Three new Expedition
32 crew members docked

45

00:02:18,940 --> 00:02:22,750
to the Rassvet module of the
International Space Station late

46

00:02:22,750 --> 00:02:30,840
that night at 11:52
p.m. central time,

47

00:02:30,840 --> 00:02:34,190
then Flight Engineers Suni
Williams Yuri Malenchenko

48

00:02:34,190 --> 00:02:39,610
and Aki Hoshide launched aboard
their Soyuz TMA 05M spacecraft

49

00:02:39,610 --> 00:02:43,080
at 9:40 PM Saturday from
the Baikonur cosmodrome

50

00:02:43,080 --> 00:02:44,430
in Kazakhstan.

51

00:02:44,430 --> 00:02:47,310
Again they arrived to
dock to the Rassvet module

52

00:02:47,310 --> 00:02:48,750
at the International
Space Station

53

00:02:48,750 --> 00:02:53,210
at 11:51 PM central time.

54

00:02:54,660 --> 00:02:58,290
Then on Tuesday NASA
astronaut Suni Williams,

55

00:02:58,290 --> 00:03:00,030
Russian cosmonaut
Yuri Malenchenko

56

00:03:00,030 --> 00:03:03,820
and Japanese astronaut Aki
Hoshide joined their Expedition

57

00:03:03,820 --> 00:03:07,530
32 crewmates as their new Flight
Engineers when the hatches

58

00:03:07,530 --> 00:03:09,500
between their Soyuz spacecraft

59

00:03:09,500 --> 00:03:11,810
and International Space
Station officially opened

60

00:03:11,810 --> 00:03:14,300
at 2:23 AM central time.

61

00:03:14,300 --> 00:03:16,910
Tuesday. Commander
Gennady Padalka

62

00:03:16,910 --> 00:03:21,230
and Flight Engineer Sergei Revin
and Flight Engineer Joe Acaba,

63

00:03:21,230 --> 00:03:24,570

welcomed their new crew
members aboard the orbital home

64

00:03:24,570 --> 00:03:26,780

for the next four months.

65

00:03:26,780 --> 00:03:32,240

After participating in a
welcoming ceremony with family

66

00:03:32,240 --> 00:03:34,270

and mission officials at
the mission control center

67

00:03:34,270 --> 00:03:38,940

in star city, Russia the newly
expanded crew quickly went

68

00:03:38,940 --> 00:03:39,880

to work.

69

00:03:39,880 --> 00:03:42,840

Padalka and Revin had
conducted a session

70

00:03:42,840 --> 00:03:46,020

with the Bar experiment which
looks at methods and instruments

71

00:03:46,020 --> 00:03:47,900

for detecting the
location of loss

72

00:03:47,900 --> 00:03:50,160

of pressure aboard the station.

73

00:03:50,160 --> 00:03:54,070

Acaba then swapped out and
recharged a battery associated

74

00:03:54,070 --> 00:03:56,850

with the integrated
cardiovascular experiment,

75

00:03:56,850 --> 00:03:59,560

which measures the atrophy of
the heart muscle that appears

76

00:03:59,560 --> 00:04:02,070

to develop during
long-duration spaceflight.

77

00:04:02,070 --> 00:04:03,370

He also performed
some maintenance

78

00:04:03,370 --> 00:04:07,350

on the Minus 80 Degree
laboratory freezer.

79

00:04:07,350 --> 00:04:10,340

Then Williams, Hoshide and
Malenchenko unloaded items

80

00:04:10,340 --> 00:04:12,010

from their Soyuz
spacecraft as well

81

00:04:12,010 --> 00:04:15,080

as outfitted their
new crew quarters.

82

00:04:15,080 --> 00:04:17,880

And then all six crew
members then participated

83

00:04:17,880 --> 00:04:21,800

in a safety briefing to review
their roles and responsibilities

84

00:04:21,800 --> 00:04:24,680

in the event of an emergency.

85

00:04:26,790 --> 00:04:30,980

Then on Wednesday new Flight Engineer Aki Hoshide spent some

86

00:04:30,980 --> 00:04:34,170

time reviewing the station's exercise equipment.

87

00:04:34,170 --> 00:04:36,620

Most of his day was spent on the robotics training

88

00:04:36,620 --> 00:04:40,230

for the arrival of Japan's HTV cargo vehicle

89

00:04:40,230 --> 00:04:42,180

that is Kounotori3.

90

00:04:42,180 --> 00:04:44,700

Flight Engineer Joe Acaba joined Hoshide

91

00:04:44,700 --> 00:04:46,810

in the robotics training.

92

00:04:46,810 --> 00:04:49,430

The Kounotori3 again is scheduled to arrive

93

00:04:49,430 --> 00:04:54,380

at the station on July 27 when it will be grappled

94

00:04:54,380 --> 00:04:58,080

with the Canadarm2 and

berthed to the harmony node.

95

00:04:59,230 --> 00:05:01,760

Acaba also powered
up the ham radios

96

00:05:01,760 --> 00:05:05,950

in the Columbus laboratory
and the Zvezda service module.

97

00:05:05,950 --> 00:05:09,390

He demonstrated the treadmill
operations to Hoshide

98

00:05:09,390 --> 00:05:12,200

and Flight Engineer Suni
Williams who were new

99

00:05:12,200 --> 00:05:14,640

to the International
Space Station.

100

00:05:16,080 --> 00:05:20,260

And Williams had worked on two
ongoing science experiments

101

00:05:20,260 --> 00:05:22,880

for the InSpace 3 experiment.

102

00:05:22,880 --> 00:05:26,410

Wednesday's objective was
to restore even distribution

103

00:05:26,410 --> 00:05:28,420

of particles inside of fluid.

104

00:05:28,420 --> 00:05:31,880

Benefits include production of
smarter and stronger materials.

105

00:05:31,880 --> 00:05:35,400

She also reviewed operations for the BASS experiment or Burning

106

00:05:35,400 --> 00:05:37,330

And Suppression Of Solids.

107

00:05:37,330 --> 00:05:40,310

And Flight Engineer Sergei Revin

108

00:05:40,310 --> 00:05:44,250

on Wednesday studied potential ways to detect pressure loss

109

00:05:44,250 --> 00:05:46,750

in the station for the Bar experiment

110

00:05:46,750 --> 00:05:49,300

And Commander Gennady Padalka concentrated

111

00:05:49,300 --> 00:05:52,730

on maintenance inside the station's Russian segment.

112

00:05:52,730 --> 00:05:56,730

Flight Engineer Yuri Malenchenko performed maintenance as well,

113

00:05:56,730 --> 00:06:00,500

transferred gear from the Soyuz TMA 05M

114

00:06:00,500 --> 00:06:04,260

and also conducted crew orientation activities.

115

00:06:08,630 --> 00:06:12,020

Then on Thursday, Flight
Engineers Suni Williams,

116

00:06:12,020 --> 00:06:17,890
Yuri Malenchenko and Aki Hoshide
joined Commander Gennady Padalka

117

00:06:17,890 --> 00:06:21,330
and Flight Engineers Sergei
Revin and Joe Acaba for a review

118

00:06:21,330 --> 00:06:25,960
of crew emergency roles
and responsibilities.

119

00:06:25,960 --> 00:06:28,770
Acaba and Hoshide then
performed some training again

120

00:06:28,770 --> 00:06:31,100
with the robotics
onboard trainer to prepare

121

00:06:31,100 --> 00:06:32,400
for the rendezvous and capture

122

00:06:32,400 --> 00:06:36,850
of the Japanese HTV cargo
vehicle, the Kounotori3 is set

123

00:06:36,850 --> 00:06:42,500
to launch to the station tonight
again at 9:06 PM central time.

124

00:06:42,500 --> 00:06:43,730
Rendezvous, capture and berthing

125

00:06:43,730 --> 00:06:48,230
of the cargo vehicle are
scheduled for July 27.

126

00:06:48,230 --> 00:06:51,920

Then to prepare the space station Progress 47 cargo

127

00:06:51,920 --> 00:06:54,330

vehicle for its undocking Padalka

128

00:06:54,330 --> 00:06:57,290

and Malenchenko installed a docking mechanism

129

00:06:57,290 --> 00:06:58,970

and also ran some tests with TORU,

130

00:06:58,970 --> 00:07:04,760

the Russian telerobotically operated rendezvous system.

131

00:07:04,760 --> 00:07:07,510

Williams worked with the Burning And Suppression

132

00:07:07,510 --> 00:07:09,070

Of Solids BASS experiment.

133

00:07:09,070 --> 00:07:11,800

That experiment examines the burning

134

00:07:11,800 --> 00:07:15,370

and extinction characteristics of a wide variety

135

00:07:15,370 --> 00:07:18,460

of fuel samples in microgravity.

136

00:07:18,460 --> 00:07:23,850
And Sergei Revin worked
with the Typology experiment

137
00:07:23,850 --> 00:07:25,460
which studies changes

138
00:07:25,460 --> 00:07:28,560
in cosmonauts' reaction
time during their

139
00:07:28,560 --> 00:07:31,370
long-duration spaceflight.

140
00:07:31,370 --> 00:07:33,810
Meanwhile on Thursday
Hoshide participated

141
00:07:33,810 --> 00:07:35,890
in an in-flight educational
event

142
00:07:35,890 --> 00:07:39,060
for the Japan aerospace
exploration agency.

143
00:07:39,060 --> 00:07:41,340
He spoke with students
in Tanegashima

144
00:07:41,340 --> 00:07:44,170
and also Tsukuba, Japan.

145
00:07:47,470 --> 00:07:52,830
And today Friday, July 20
Commander Padalka continues

146
00:07:52,830 --> 00:07:55,410
final preparations for
this weekend's departure

147

00:07:55,410 --> 00:07:57,170
of the Progress 47.

148

00:07:57,170 --> 00:08:01,160
This is the Russian cargo ship
for its undocking this weekend.

149

00:08:01,160 --> 00:08:04,210
The Progress 47 vehicle
is set to undock

150

00:08:04,210 --> 00:08:07,160
from the Pirs docking
compartment Sunday

151

00:08:07,160 --> 00:08:10,070
at 3:27 PM central time.

152

00:08:10,070 --> 00:08:13,000
The cargo ship will back
away from the station

153

00:08:13,000 --> 00:08:14,820
and then re-dock
on Monday night.

154

00:08:14,820 --> 00:08:17,800
The vehicle's undocking
and re-dock exercise is

155

00:08:17,800 --> 00:08:20,370
to test the new Kurs
docking system.

156

00:08:20,370 --> 00:08:22,910
We'll have live coverage
of the initial undocking

157

00:08:22,910 --> 00:08:25,840
on Sunday afternoon at
3 PM central time here

158
00:08:25,840 --> 00:08:27,850
on NASA television.

159
00:08:27,850 --> 00:08:30,080
Meanwhile, Flight
Engineer Joe Acaba removed

160
00:08:30,080 --> 00:08:33,220
and replaced the Water Recovery
System's recycle filter tank

161
00:08:33,220 --> 00:08:35,280
assembly for urine processing

162
00:08:35,280 --> 00:08:39,460
of the onboard Water Recovery
System that converts urine,

163
00:08:39,460 --> 00:08:43,560
sweat and condensation
into drinkable water.

164
00:08:43,560 --> 00:08:47,210
And Acaba then conducted
a fitness evaluation

165
00:08:47,210 --> 00:08:49,750
and a periodic health
checkup with some help

166
00:08:49,750 --> 00:08:52,570
from his crewmate, Flight
Engineer Suni Williams.

167
00:08:52,570 --> 00:08:54,490
Acaba then assisted Williams

168

00:08:54,490 --> 00:08:56,930

with the Integrated
Cardiovascular ambulatory

169

00:08:56,930 --> 00:08:59,680

monitoring system that
studies the atrophy

170

00:08:59,680 --> 00:09:02,880

of the heart muscle during
long-duration spaceflight.

171

00:09:02,880 --> 00:09:08,200

Also today Acaba, Williams
and Hoshide worked together

172

00:09:08,200 --> 00:09:10,920

in more onboard training
using the station robotics

173

00:09:10,920 --> 00:09:14,240

to practice vehicle rendezvous
and capture in advance

174

00:09:14,240 --> 00:09:18,460

of the arrival of the third
Japanese cargo supply ship H-II

175

00:09:18,460 --> 00:09:21,960

Transfer Vehicle
or the Kounotori3.

176

00:09:21,960 --> 00:09:24,880

Acaba also will prepare
the node 2 nadir hatch

177

00:09:24,880 --> 00:09:27,530

for the arrival of the vehicle.

178

00:09:27,530 --> 00:09:29,560

The cargo ship is
scheduled to launch

179

00:09:29,560 --> 00:09:32,780

from the Tanegashima Space
Center in Japan tonight

180

00:09:32,780 --> 00:09:35,960

at 9:06 PM central time.

181

00:09:35,960 --> 00:09:38,660

We'll have live coverage of
the cargo ship's launch here

182

00:09:38,660 --> 00:09:39,910

on NASA television beginning

183

00:09:39,910 --> 00:09:44,600

at 8:15 PM central time,
9:15 PM Eastern time.

184

00:09:44,600 --> 00:09:49,340

And also today, Flight Engineer
Suni Williams performed the

185

00:09:49,340 --> 00:09:51,430

reversible figures experiment.

186

00:09:51,430 --> 00:09:53,840

She also will spend
time on an entry as part

187

00:09:53,840 --> 00:09:56,550

of the Journals study
and participate

188

00:09:56,550 --> 00:09:59,440

in a private medical conference.

189

00:09:59,440 --> 00:10:02,640

Meanwhile today Hoshide
reviewed procedures

190

00:10:02,640 --> 00:10:06,270

for the Minus Eighty
Degree laboratory freezer

191

00:10:06,270 --> 00:10:07,370

and then also removed

192

00:10:07,370 --> 00:10:09,630

and restowed the
current list contents

193

00:10:09,630 --> 00:10:13,190

of the lab aft stowage locations

194

00:10:13,190 --> 00:10:16,810

and moved some space
hardware to that location.

195

00:10:16,810 --> 00:10:20,120

The newest crew members aboard
the International Space Station

196

00:10:20,120 --> 00:10:21,650

will also have more time today

197

00:10:21,650 --> 00:10:25,040

for additional adaptation
and familiarization.