1
00:00:05,910 --> 00:00:04,230
good day and welcome to mission control

2
00:00:08,790 --> 00:00:05,920
houston where the team of flight

3
00:00:10,549 --> 00:00:08,800
controllers is watching uh

4
00:00:12,950 --> 00:00:10,559
systems aboard the international space

5
00:00:14,950 --> 00:00:12,960
stations in support of the expedition 31

6
00:00:17,029 --> 00:00:14,960
crew aboard the space station uh

7
00:00:18,310 --> 00:00:17,039
commander ola kononenko

8
00:00:21,189 --> 00:00:18,320
along with his russian colleagues

9
00:00:23,830 --> 00:00:21,199
gennady padalka and sergey revin and the

10
00:00:25,910 --> 00:00:23,840
two nasa astronauts joe acaba and don

11
00:00:28,630 --> 00:00:25,920
pettit along with european space agency

12
00:00:30,710 --> 00:00:28,640
astronaut andre kuipers all continuing

13
00:00:33,750 --> 00:00:30,720

through their day today as the space

14
00:00:35,590 --> 00:00:33,760
station orbits about 240 statute miles

15
00:00:36,709 --> 00:00:35,600
over the southern portion of south

16
00:00:38,790 --> 00:00:36,719
america

17
00:00:40,310 --> 00:00:38,800
after having completed several passes

18
00:00:42,470 --> 00:00:40,320
over the united states a little bit

19
00:00:44,310 --> 00:00:42,480
earlier in their day

20
00:00:46,389 --> 00:00:44,320
it's been a very busy week for the crew

21
00:00:48,869 --> 00:00:46,399
aboard the international space station

22
00:00:51,510 --> 00:00:48,879
uh monday uh started off with a lot of

23
00:00:53,990 --> 00:00:51,520
uh cargo operations associated with the

24
00:00:55,830 --> 00:00:54,000
dragon spacex vehicle uh that

25
00:00:58,389 --> 00:00:55,840
successfully splashed down yesterday in

26
00:01:01,110 --> 00:00:58,399
the pacific ocean after a nine-day uh

27
00:01:06,630 --> 00:01:03,670
the crew did a lot of cargo operations

28
00:01:09,190 --> 00:01:06,640
and uh also completed some orientation

29
00:01:11,910 --> 00:01:09,200
for the new crew members which are joe

30
00:01:13,350 --> 00:01:11,920
acaba sergei revin and gennady padalka

31
00:01:15,990 --> 00:01:13,360
as they just arrived at the space

32
00:01:18,469 --> 00:01:16,000
station in mid-may

33
00:01:19,270 --> 00:01:18,479
tuesday was a very busy day

34
00:01:22,469 --> 00:01:19,280
as

35
00:01:23,270 --> 00:01:22,479
andre kuipers took microbial samples for

36
00:01:25,350 --> 00:01:23,280
the

37
00:01:27,109 --> 00:01:25,360
return on spacex through various

38
00:01:29,510 --> 00:01:27,119

surfaces on the interior of the space

39
00:01:31,510 --> 00:01:29,520
station a lot of routine housekeeping

40
00:01:33,350 --> 00:01:31,520
and filter cleaning some periodic

41
00:01:35,030 --> 00:01:33,360
fitness evaluations to report to the

42
00:01:36,149 --> 00:01:35,040
doctors on the ground how the crew is

43
00:01:38,469 --> 00:01:36,159
doing

44
00:01:39,190 --> 00:01:38,479
and again more dragon cargo operations

45
00:01:40,950 --> 00:01:39,200
and

46
00:01:43,030 --> 00:01:40,960
also the russians crew members were

47
00:01:45,030 --> 00:01:43,040
working with a new communications system

48
00:01:46,069 --> 00:01:45,040
installing cables and software for that

49
00:01:48,389 --> 00:01:46,079
system

50
00:01:50,630 --> 00:01:48,399
wednesday was a procedure review for the

51
00:01:52,870 --> 00:01:50,640
final activities with the dragon as the

52
00:01:54,710 --> 00:01:52,880
crew got ready to

53
00:01:56,550 --> 00:01:54,720
take it off the space station using

54
00:01:58,789 --> 00:01:56,560
canadarm2 and

55
00:02:00,630 --> 00:01:58,799
release it for re-entry

56
00:02:02,789 --> 00:02:00,640
and they installed the controller panel

57
00:02:05,030 --> 00:02:02,799
assemblies on the harmony

58
00:02:07,510 --> 00:02:05,040
common berthing mechanism port that was

59
00:02:08,710 --> 00:02:07,520
used by dragon to get it ready for hatch

60
00:02:11,589 --> 00:02:08,720
closure

61
00:02:13,350 --> 00:02:11,599
on thursday the crew did the stowage of

62
00:02:15,030 --> 00:02:13,360
final return items on the dragon

63
00:02:18,630 --> 00:02:15,040

spacecraft

64
00:02:20,470 --> 00:02:18,640
including those samples of

65
00:02:21,670 --> 00:02:20,480
this from the surfaces inside the space

66
00:02:23,990 --> 00:02:21,680
station

67
00:02:26,229 --> 00:02:24,000
they closed the hatches on the dragon

68
00:02:28,550 --> 00:02:26,239
spacecraft and then

69
00:02:30,790 --> 00:02:28,560
demated it from the harmony module

70
00:02:32,630 --> 00:02:30,800
birthing port the earth-facing birthing

71
00:02:34,470 --> 00:02:32,640
port and then eventually released the

72
00:02:35,910 --> 00:02:34,480
dragon spacecraft

73
00:02:37,750 --> 00:02:35,920
while they were doing that their russian

74
00:02:40,470 --> 00:02:37,760
colleagues were replacing nine of ten

75
00:02:42,630 --> 00:02:40,480
different smoke detectors uh that uh are

76
00:02:44,710 --> 00:02:42,640
provide monitoring capabilities inside

77
00:02:46,790 --> 00:02:44,720
the space station and then the crew

78
00:02:48,630 --> 00:02:46,800
monitored dragon's reentry and splashed

79
00:02:51,990 --> 00:02:48,640
down in the pacific ocean which all went

80
00:02:53,670 --> 00:02:52,000
very well joe acaba also provided blood

81
00:02:55,350 --> 00:02:53,680
and urine samples for experiments that

82
00:02:57,430 --> 00:02:55,360
are looking at how nutrition and

83
00:02:59,430 --> 00:02:57,440
microgravity affect the human body and

84
00:03:01,350 --> 00:02:59,440
how they might be related to

85
00:03:03,509 --> 00:03:01,360
long-term changes in eyesight for

86
00:03:06,070 --> 00:03:03,519
astronauts it could be important for

87
00:03:08,070 --> 00:03:06,080
both future human space travel for long

88
00:03:09,430 --> 00:03:08,080

distances and also for people here on

89
00:03:10,949 --> 00:03:09,440
the earth who suffer from vision

90
00:03:13,350 --> 00:03:10,959
problems

91
00:03:15,190 --> 00:03:13,360
today is a final busy day for the crew

92
00:03:17,589 --> 00:03:15,200
on board the space station that final

93
00:03:20,550 --> 00:03:17,599
russian smoke detector replacement more

94
00:03:22,309 --> 00:03:20,560
work with new communication systems

95
00:03:23,910 --> 00:03:22,319
the russians also continue to work with

96
00:03:26,229 --> 00:03:23,920
their pneumocard experiment that looks

97
00:03:28,470 --> 00:03:26,239
at how cardiovascular systems

98
00:03:30,470 --> 00:03:28,480
react to microgravity one of the many

99
00:03:31,990 --> 00:03:30,480
research activities continuing on the

100
00:03:33,030 --> 00:03:32,000
space station even in the face of all

101
00:03:35,430 --> 00:03:33,040
this

102
00:03:37,910 --> 00:03:35,440
recent commercial resupply activity joe

103
00:03:39,750 --> 00:03:37,920
acaba providing more samples for those

104
00:03:41,830 --> 00:03:39,760
human research facility experiments

105
00:03:43,830 --> 00:03:41,840
looking at how the body reacts to

106
00:03:46,070 --> 00:03:43,840
microgravity as well

107
00:03:48,789 --> 00:03:46,080
acaba also today supporting some

108
00:03:50,229 --> 00:03:48,799
kinematics as he looks at

109
00:03:52,949 --> 00:03:50,239
putting special markers in different

110
00:03:54,550 --> 00:03:52,959
places of his body strategic locations

111
00:03:56,550 --> 00:03:54,560
and then exercises on the treadmill

112
00:03:58,710 --> 00:03:56,560
system so that

113
00:04:00,869 --> 00:03:58,720

engineer engineers and doctors on the

114
00:04:01,990 --> 00:04:00,879
ground can help calibrate the exercise

115
00:04:04,149 --> 00:04:02,000
equipment

116
00:04:06,550 --> 00:04:04,159
for joe acaba

117
00:04:08,390 --> 00:04:06,560
andre hypers today worked with rotating

118
00:04:11,350 --> 00:04:08,400
one of the japanese experiments racks

119
00:04:13,750 --> 00:04:11,360
out of its uh moorings for examination

120
00:04:15,589 --> 00:04:13,760
and don pettit is working with the space

121
00:04:17,189 --> 00:04:15,599
acceleration measurement system that

122
00:04:19,270 --> 00:04:17,199
measures the microgravity environments

123
00:04:21,270 --> 00:04:19,280
aboard the space station and also with

124
00:04:23,990 --> 00:04:21,280
some adjustments to the interval module

125
00:04:25,110 --> 00:04:24,000
ventilation system the air ducts into

126
00:04:27,510 --> 00:04:25,120
the

127
00:04:29,030 --> 00:04:27,520
jacks kibo module that laboratory

128
00:04:31,590 --> 00:04:29,040
provided by the

129
00:04:33,510 --> 00:04:31,600
japan aerospace exploration agency don

130
00:04:35,749 --> 00:04:33,520
pettit also is doing some sound level

131
00:04:38,310 --> 00:04:35,759
monitoring throughout the station

132
00:04:40,310 --> 00:04:38,320
and he is doing some rearranging of some

133
00:04:42,150 --> 00:04:40,320
of the stowage in anticipation of the

134
00:04:44,310 --> 00:04:42,160
next cargo vehicle to the international

135
00:04:46,870 --> 00:04:44,320
space station that'll be the japanese

136
00:04:48,629 --> 00:04:46,880
htv-3 cargo vehicle which is scheduled

137
00:04:51,110 --> 00:04:48,639
to go up to the space station later this

138
00:04:54,790 --> 00:04:52,710

so all in all a very busy week for the

139
00:04:57,270 --> 00:04:54,800
crew on board the station

140
00:04:58,469 --> 00:04:57,280
and a very full week that is and they're

141
00:05:00,070 --> 00:04:58,479
going to have an opportunity over the

142
00:05:02,950 --> 00:05:00,080
weekend to get some rest and relax