



1  
00:00:02,130 --> 00:00:04,420  
Good morning, this is  
Mission Control Houston.

2  
00:00:04,420 --> 00:00:06,670  
Welcome and thank you for  
joining us for today's edition

3  
00:00:06,670 --> 00:00:10,460  
of ISS update this  
Thursday, May 17.

4  
00:00:12,240 --> 00:00:15,210  
We're coming to you live inside  
the International Space Station

5  
00:00:15,210 --> 00:00:17,960  
flight control room where the  
team has been monitoring the

6  
00:00:17,960 --> 00:00:20,910  
systems aboard the station and  
supporting today's activities

7  
00:00:20,910 --> 00:00:23,650  
of the Expedition  
31 crew members.

8  
00:00:23,650 --> 00:00:25,300  
Leading the Orbit Two team here

9  
00:00:25,300 --> 00:00:27,930  
in the station flight control  
room today is flight director

10  
00:00:27,930 --> 00:00:30,750  
Judd Frieling and next  
to him is Anna Fisher,

11

00:00:30,750 --> 00:00:32,110  
who is serving as Capcom.

12

00:00:32,110 --> 00:00:38,550  
She's been relaying all ground  
messages up to the crew.

13

00:00:38,550 --> 00:00:42,160  
Aboard the orbiting complex  
station Commander Oleg Kononenko

14

00:00:42,160 --> 00:00:46,240  
and Flight Engineers Andre  
Kuipers and Don Pettit who are

15

00:00:46,240 --> 00:00:47,850  
in their 21st week in space,

16

00:00:47,850 --> 00:00:50,520  
welcomed three new crew  
members aboard the orbital home

17

00:00:50,520 --> 00:00:51,880  
last night.

18

00:00:51,880 --> 00:00:54,690  
Russian cosmonauts Gennady  
Padalka, Sergei Revin

19

00:00:54,690 --> 00:00:58,300  
and NASA astronaut Joe Acaba  
aboard the Soyuz [TMA-]04M

20

00:00:58,300 --> 00:01:00,940  
spacecraft docked  
to the space station

21

00:01:00,940 --> 00:01:04,420  
after their successful launch  
from the Baikonur Cosmodrome

22

00:01:04,420 --> 00:01:06,350  
in Kazakhstan late Monday night.

23

00:01:06,350 --> 00:01:09,540  
After a two-day chase on orbit,  
that Soyuz spacecraft docked

24

00:01:09,540 --> 00:01:12,430  
to the Poisk module at the  
space station last night

25

00:01:12,430 --> 00:01:17,220  
at 11:36 PM central time as  
the two vehicles were flying

26

00:01:17,220 --> 00:01:21,400  
over the Mongolian  
border with Kazakhstan.

27

00:01:23,390 --> 00:01:26,520  
While anticipating their three  
new crew members Kononenko,

28

00:01:26,520 --> 00:01:29,220  
Kuipers and Pettit began  
their day with a wake-up

29

00:01:29,220 --> 00:01:32,870  
at 8:30 central time last  
night to support the arrival

30

00:01:32,870 --> 00:01:34,520  
of their new crew  
members who joined them

31

00:01:34,520 --> 00:01:37,810  
on board the International Space  
Station after a series of leak

32

00:01:37,810 --> 00:01:39,310

and pressure checks,  
and the hatches

33

00:01:39,310 --> 00:01:41,720

between both vehicles were  
opened early this morning

34

00:01:41,720 --> 00:01:45,370

at 3:10 central time.

35

00:01:47,500 --> 00:01:50,320

The new trio joined the  
crew for a greeting ceremony

36

00:01:50,320 --> 00:01:52,260

and conference with family  
and mission officials

37

00:01:52,260 --> 00:01:54,910

and conducted a safety  
briefing afterward.

38

00:01:54,910 --> 00:01:56,130

It is now back to business

39

00:01:56,130 --> 00:01:58,650

for the current station  
residents while their newly

40

00:01:58,650 --> 00:02:02,140

arrived crewmates begin several  
days of familiarization tasks

41

00:02:02,140 --> 00:02:05,810

as they adjust to life aboard  
the orbital laboratory.

42

00:02:05,810 --> 00:02:09,380

The docking occurred on  
Acaba's 45th birthday.

43

00:02:09,380 --> 00:02:11,820

In his first daily planning  
conference aboard the space

44

00:02:11,820 --> 00:02:14,790

station, Acaba told ground  
controllers around the world,

45

00:02:14,790 --> 00:02:18,560

"I couldn't have wished for  
better birthday present."

46

00:02:18,560 --> 00:02:22,430

Acaba had previously visited the  
station March 2009 aboard the

47

00:02:22,430 --> 00:02:26,490

space shuttle discovery as an  
STS 119 mission specialist.

48

00:02:26,490 --> 00:02:30,460

This is Padalka's fourth  
long-duration spaceflight

49

00:02:30,460 --> 00:02:32,100

and his third aboard  
the station.

50

00:02:32,100 --> 00:02:35,760

His first mission was aboard  
the Russian space station Mir,

51

00:02:35,760 --> 00:02:39,620

while Revin is making his  
first trip into space.

52

00:02:43,230 --> 00:02:44,880

Awaiting for their new crewmates

53

00:02:44,880 --> 00:02:48,820  
to join them aboard the  
International Space Station,

54

00:02:48,820 --> 00:02:53,060  
Commander Kononenko, Kuipers  
and Pettit had launched

55

00:02:53,060 --> 00:02:55,850  
to the orbiting complex  
aboard their Soyuz spacecraft

56

00:02:55,850 --> 00:02:59,130  
as the Expedition 30 crew  
in December of last year.

57

00:02:59,130 --> 00:03:01,260  
Their vehicle docked  
to the Rassvet module

58

00:03:01,260 --> 00:03:02,520  
of the space station two days

59

00:03:02,520 --> 00:03:05,190  
after their launch  
on December 23.

60

00:03:05,190 --> 00:03:09,570  
Today the trio will complete  
their 149th consecutive day,

61

00:03:09,570 --> 00:03:13,160  
nearly 5 months in space.

62

00:03:13,160 --> 00:03:16,290  
Kononenko, Kuipers and Pettit  
had adjusted their sleep shift

63

00:03:16,290 --> 00:03:19,190

with an earlier wakeup  
at 8:30 PM last night

64

00:03:19,190 --> 00:03:23,440

to accommodate the  
successful docking at 11:36 PM.

65

00:03:23,440 --> 00:03:27,750

The space station  
with its crew aboard

66

00:03:27,750 --> 00:03:31,980

and the Soyuz TMA-04M now docked  
is now flying at an altitude

67

00:03:31,980 --> 00:03:38,650

of about 245 statute miles.

68

00:03:38,650 --> 00:03:40,890

The orbiting facility  
is on a night pass

69

00:03:40,890 --> 00:03:43,600

on a northeastern track  
having made its way

70

00:03:43,600 --> 00:03:47,360

across the southern  
Australia about 15 min.

71

00:03:47,360 --> 00:03:51,100

ago. It's now across the North  
Pacific Ocean heading toward an

72

00:03:51,100 --> 00:03:55,530

orbital sunrise and  
eventually a pass across Canada.

73

00:03:58,030 --> 00:04:01,390  
Kononenko, Kuipers and Pettit  
had adjusted their sleep shift

74

00:04:01,390 --> 00:04:04,390  
with that earlier wake  
up at 8:30 PM last night.

75

00:04:04,390 --> 00:04:06,870  
They began their active  
long day with the first

76

00:04:06,870 --> 00:04:09,250  
of two daily planning  
conference a couple hours

77

00:04:09,250 --> 00:04:10,800  
after their wake-up.

78

00:04:10,800 --> 00:04:13,290  
These planning conferences are  
held with ground controllers

79

00:04:13,290 --> 00:04:15,360  
at mission control  
centers around the world

80

00:04:15,360 --> 00:04:17,920  
to review the day's  
activities and also plan

81

00:04:17,920 --> 00:04:19,380  
for the next set of task.

82

00:04:19,380 --> 00:04:21,970  
The task at the top of  
the list being the arrival

83

00:04:21,970 --> 00:04:24,620  
of their new crew members.

84

00:04:24,620 --> 00:04:27,370

Along with the arrival of the Soyuz today, Pettit worked

85

00:04:27,370 --> 00:04:29,630

with the SPHERES experiment troubleshooting the

86

00:04:29,630 --> 00:04:30,900

reference clock.

87

00:04:30,900 --> 00:04:33,230

He also replaced a manifold bottle

88

00:04:33,230 --> 00:04:35,650

in the Combustion Integrated Rack experiment

89

00:04:35,650 --> 00:04:37,410

and observed microbial samples

90

00:04:37,410 --> 00:04:42,480

for the Environmental Health System Microbial Capture Device.

91

00:04:42,480 --> 00:04:45,690

Kuipers worked on the Water Recovery System to prepare

92

00:04:45,690 --> 00:04:49,120

for water transfers and performed flow measurements

93

00:04:49,120 --> 00:04:51,930

on the temperature and humidity control,

94

00:04:51,930 --> 00:04:54,280  
the inner module  
ventilation system.

95  
00:04:54,280 --> 00:04:57,310  
And new to the station,

96  
00:04:57,310 --> 00:04:59,850  
NASA astronaut Joe Acaba  
spent some time setting

97  
00:04:59,850 --> 00:05:02,170  
up his crew quarters area.

98  
00:05:02,170 --> 00:05:05,390  
The six-member Expedition  
crew is now settling

99  
00:05:05,390 --> 00:05:08,260  
down in their pre-sleep period  
aboard the space station

100  
00:05:08,260 --> 00:05:10,740  
as they prepare for  
14 hours of rest

101  
00:05:10,740 --> 00:05:12,150  
that will adjust  
their sleep back

102  
00:05:12,150 --> 00:05:15,330  
to the normal station operations  
clock for their first full day

103  
00:05:15,330 --> 00:05:18,080  
of work together as a full  
crew aboard the orbiting

104  
00:05:18,080 --> 00:05:19,680  
complex tomorrow.

105

00:05:19,680 --> 00:05:22,020

The crew is scheduled go  
to bed just at the end