
CATO

1
00:00:01,770 --> 00:00:03,550
This is mission control Houston.

2
00:00:03,550 --> 00:00:05,950
Just to recap the activities

3
00:00:05,950 --> 00:00:08,660
of the week aboard the
International Space Station,

4
00:00:08,660 --> 00:00:12,560
the team of flight controllers
that the has been led much

5
00:00:12,560 --> 00:00:16,460
of the week by flight
director Ed Van Cise watching

6
00:00:16,460 --> 00:00:19,190
over his team throughout
the daytime hours

7
00:00:19,190 --> 00:00:21,350
of the International
Space Station,

8
00:00:21,350 --> 00:00:26,560
as the International Space
Station world circles the Earth

9
00:00:26,560 --> 00:00:27,720
every 92 min.

10
00:00:27,720 --> 00:00:31,190
at an altitude of
about the 250 miles.

11
00:00:31,190 --> 00:00:35,520
Supporting the expedition

31 crew of Oleg Kononenko

12
00:00:35,520 --> 00:00:40,420
from Russia, Andre Kuipers
from the Netherlands

13
00:00:40,420 --> 00:00:42,330
and US astronaut Don Pettit

14
00:00:42,330 --> 00:00:48,220
as they complete their 4
1/2 month stay aboard the

15
00:00:48,220 --> 00:00:50,030
International Space Station.

16
00:00:50,030 --> 00:00:53,960
It's been a busy
week for the crew

17
00:00:53,960 --> 00:00:58,610
as they have been spread
throughout the 32,000 cubic ft

18
00:00:58,610 --> 00:01:01,570
of facility conducting
science investigations,

19
00:01:01,570 --> 00:01:04,470
preparing for the arrival
of three new crew members

20
00:01:04,470 --> 00:01:07,070
and the first ever
commercial cargo spacecraft

21
00:01:07,070 --> 00:01:10,080
and routine housekeeping chores.

22

00:01:10,080 --> 00:01:13,150
Earlier this week the crew
began packing items for return

23
00:01:13,150 --> 00:01:16,640
to Earth aboard the space
exploration technology's Dragon

24
00:01:16,640 --> 00:01:19,200
spacecraft in and
around the conduct

25
00:01:19,200 --> 00:01:21,090
of science investigations.

26
00:01:21,090 --> 00:01:23,480
That prepack of about
1,000 pounds

27
00:01:23,480 --> 00:01:25,900
of equipment was
completed Thursday

28
00:01:25,900 --> 00:01:29,720
and Dragon now sits atop
a SpaceX Falcon 9 rocket

29
00:01:29,720 --> 00:01:31,440
at the Cape Canaveral
Air Force Station

30
00:01:31,440 --> 00:01:35,010
in Florida awaiting
launch scheduled for 3:55

31
00:01:35,010 --> 00:01:36,270
in the morning central time,

32
00:01:36,270 --> 00:01:41,010
4:55 Eastern next

Saturday, May 19.

33
00:01:41,010 --> 00:01:44,510
The crew also conducted
training exercise this week

34
00:01:44,510 --> 00:01:47,180
with mission control
demonstrating their ability

35
00:01:47,180 --> 00:01:50,400
to follow procedures and
respond to scenarios associated

36
00:01:50,400 --> 00:01:54,640
with a sudden depressurization
of the cabin atmosphere.

37
00:01:54,640 --> 00:01:57,730
The training is conducted
periodically to ensure the crew

38
00:01:57,730 --> 00:02:01,140
and flight control teams are
ready to respond in the event

39
00:02:01,140 --> 00:02:04,450
of a similar real issue
aboard the station.

40
00:02:04,450 --> 00:02:07,070
Pettit and Kuipers had a
unique opportunity earlier

41
00:02:07,070 --> 00:02:09,430
in the week also to
discuss their mission

42
00:02:09,430 --> 00:02:13,120
with the World Wildlife Fund

annual global conference

43
00:02:13,120 --> 00:02:15,980
that was taking place in
Rotterdam, the Netherlands.

44
00:02:15,980 --> 00:02:19,600
The WWF is one of the
world's leading conservation

45
00:02:19,600 --> 00:02:24,410
organizations working with
more than 100 countries.

46
00:02:25,500 --> 00:02:27,760
Midweek of focus
was on the unloading

47
00:02:27,760 --> 00:02:31,220
of cargo delivered board the
ESA Automated Transfer Vehicle

48
00:02:31,220 --> 00:02:32,700
Edoardo Amaldi.

49
00:02:32,700 --> 00:02:36,510
That. transfer activity
continued throughout the week.

50
00:02:36,510 --> 00:02:41,190
Thursday Don Pettit performed
a unique experiment testing the

51
00:02:41,190 --> 00:02:44,480
properties of flame on
various types of products

52
00:02:44,480 --> 00:02:46,750
to help investigators
determine the burning

53
00:02:46,750 --> 00:02:50,810
of extinguishing characteristics
of a wide variety of samples.

54
00:02:50,810 --> 00:02:54,090
He continues that experiment
at the end of the week

55
00:02:54,090 --> 00:02:56,820
and they also conducted along

56
00:02:56,820 --> 00:02:59,900
with his other colleagues other
experiments including measuring

57
00:02:59,900 --> 00:03:03,170
changes in energy balance to
help determine energy needs

58
00:03:03,170 --> 00:03:06,870
for astronauts over
long-duration spaceflights

59
00:03:06,870 --> 00:03:09,620
and also develop an
equation for energy needs

60
00:03:09,620 --> 00:03:12,130
of crew members in the future.

61
00:03:12,130 --> 00:03:14,150
Threaded throughout the week,

62
00:03:14,150 --> 00:03:16,330
the crew continued
unloading the ATV

63
00:03:16,330 --> 00:03:19,400

and Russian Progress
supply vehicles.

64
00:03:19,400 --> 00:03:23,810
The 47 Progress unloading
was completed midweek

65
00:03:23,810 --> 00:03:26,120
and the loading of
unneeded items began ahead

66
00:03:26,120 --> 00:03:28,120
of its departure.

67
00:03:28,120 --> 00:03:29,720
The crew will spend the weekend

68
00:03:29,720 --> 00:03:32,780
for the most part off-duty
conducting routine housekeeping

69
00:03:32,780 --> 00:03:36,550
chores including exercise
and Earth observation

70
00:03:36,550 --> 00:03:38,970
and also talking
with their families.

71
00:03:38,970 --> 00:03:41,860
They will however keep an eye
on preparations for launch

72
00:03:41,860 --> 00:03:45,340
of their newest crew
members arrival next week.

73
00:03:45,340 --> 00:03:49,280
The Soyuz TMA-04M is set
to launch Monday night

74
00:03:49,280 --> 00:03:53,630
at 10:01 Central,
11:01 PM Eastern time,

75
00:03:53,630 --> 00:03:57,260
delivering Gennady Padalka,
Sergei Revin and Joe Acaba

76
00:03:57,260 --> 00:03:59,680
to the station next Wednesday.

77
00:03:59,680 --> 00:04:01,790
Their preparations and
those of their rocket

78
00:04:01,790 --> 00:04:03,960
and spacecraft are going well

79
00:04:03,960 --> 00:04:07,020
with integration scheduled
Saturday and rocket roll

80
00:04:07,020 --> 00:04:09,890
to the launch pad on Sunday.

81
00:04:09,890 --> 00:04:15,120
So it's been a busy week
for the Expedition 31 crew

82
00:04:15,120 --> 00:04:20,040
with another exciting week
ahead as well with the launch

83
00:04:20,040 --> 00:04:23,110
of the Soyuz spacecraft and
then next Saturday the launch

84
00:04:23,110 --> 00:04:26,350

of the SpaceX Dragon
cargo vehicle

85
00:04:26,350 --> 00:04:28,490
to the International
Space Station.

86
00:04:28,490 --> 00:04:33,390
NASA TV will begin covering
the Soyuz launch Monday night

87
00:04:33,390 --> 00:04:34,890
at 9 PM.

88
00:04:34,890 --> 00:04:39,900
That will be some bonus
coverage with our additional

89
00:04:39,900 --> 00:04:44,040
to our usual hour of coverage
that occurs in the morning