
PAO
44
КОРНИЕНКО ПАДАЛКА KELLY 2# КОНОНЕНКО TINGHEN

1
00:00:09,400 --> 00:00:06,909
well the safe return home yesterday of

2
00:00:10,959 --> 00:00:09,410
expedition 43 commander terry virts

3
00:00:12,850 --> 00:00:10,969
along with flight engineers anton

4
00:00:14,530 --> 00:00:12,860
shkaplerov and samantha Christopher

5
00:00:17,590 --> 00:00:14,540
ready after their stay aboard the

6
00:00:20,440 --> 00:00:17,600
station signaled the start of expedition

7
00:00:22,270 --> 00:00:20,450
43 and to get a preview of some of the

8
00:00:25,030 --> 00:00:22,280
highlights of the increment that has

9
00:00:28,030 --> 00:00:25,040
just started I'm pleased to welcome

10
00:00:30,550 --> 00:00:28,040
Scott Stover here Scott is the lead

11
00:00:34,540 --> 00:00:30,560
flight director for actually expedition

12
00:00:37,780 --> 00:00:34,550
43 and 44 so he's staying on for for

13
00:00:41,020 --> 00:00:37,790

another increment through the expedition

14
00:00:42,310 --> 00:00:41,030
44 and Scott welcome I know you you're

15
00:00:43,900 --> 00:00:42,320
very familiar with this room you've

16
00:00:46,300 --> 00:00:43,910
worked right over there but now you're

17
00:00:47,860 --> 00:00:46,310
kind of overseeing the team from the

18
00:00:50,260 --> 00:00:47,870
crow's nest and I guess representing

19
00:00:52,030 --> 00:00:50,270
this team to the outside mission

20
00:00:54,490 --> 00:00:52,040
management team and other entities

21
00:00:56,650 --> 00:00:54,500
within flight operations right yeah

22
00:00:57,910 --> 00:00:56,660
that's a great way to put it as a flight

23
00:00:59,800 --> 00:00:57,920
director you know sitting here in this

24
00:01:02,110 --> 00:00:59,810
room you you're in charge of the

25
00:01:03,460 --> 00:01:02,120
day-to-day what's going on entering crew

26
00:01:05,680 --> 00:01:03,470
calls making sure the timeline is

27
00:01:08,350 --> 00:01:05,690
getting done as an increment lead what

28
00:01:09,580 --> 00:01:08,360
we do is we look I often say I live a

29
00:01:11,110 --> 00:01:09,590
couple weeks in the future we're always

30
00:01:13,510 --> 00:01:11,120
looking at what's coming up and making

31
00:01:16,570 --> 00:01:13,520
sure that the overall requirements and

32
00:01:19,090 --> 00:01:16,580
big picture plans for the the rest of

33
00:01:21,250 --> 00:01:19,100
the increment is is getting planned out

34
00:01:22,810 --> 00:01:21,260
and and hopefully successfully completed

35
00:01:24,340 --> 00:01:22,820
you know we always have hiccups here

36
00:01:25,690 --> 00:01:24,350
there or if a piece of hardware doesn't

37
00:01:28,960 --> 00:01:25,700
work the way we want or something like

38
00:01:31,000 --> 00:01:28,970

that but our goal is to you know the the

39
00:01:33,100 --> 00:01:31,010
program NASA and the international

40
00:01:35,620 --> 00:01:33,110
partners all have requirements whether

41
00:01:37,480 --> 00:01:35,630
it's science experiments or adjusting

42
00:01:41,080 --> 00:01:37,490
the the space stations configuration or

43
00:01:43,120 --> 00:01:41,090
anything like that and we plan to to get

44
00:01:45,850 --> 00:01:43,130
that all accomplished as crew time is

45
00:01:48,580 --> 00:01:45,860
available to do that you and I actually

46
00:01:51,660 --> 00:01:48,590
chatted yesterday afternoon about this

47
00:01:54,910 --> 00:01:51,670
but and there's been a name any

48
00:01:57,880 --> 00:01:54,920
significant impacts to the schedule with

49
00:02:01,690 --> 00:01:57,890
the kind of the one month delay in the

50
00:02:03,490 --> 00:02:01,700
start of expedition 44 I know we chatted

51
00:02:06,160 --> 00:02:03,500
about expedition 43 staying a little

52
00:02:08,080 --> 00:02:06,170
longer so I talked about the impacts if

53
00:02:10,419 --> 00:02:08,090
there even are any for the expedition

54
00:02:13,030 --> 00:02:10,429
that just got underway yeah so we've had

55
00:02:14,350 --> 00:02:13,040
to rearrange a few things the the

56
00:02:17,200 --> 00:02:14,360
benefit of having the

57
00:02:18,730 --> 00:02:17,210
31's crew stay longer was we did

58
00:02:21,160 --> 00:02:18,740
relocate the permanent multi-purpose

59
00:02:23,320 --> 00:02:21,170
module that had been planned to do later

60
00:02:25,180 --> 00:02:23,330
in the summer but with the additional

61
00:02:27,310 --> 00:02:25,190
crew time that was available early in

62
00:02:30,040 --> 00:02:27,320
the increment we were able to get that

63
00:02:31,540 --> 00:02:30,050

accomplished now we do have here about

64
00:02:33,850 --> 00:02:31,550
six weeks we're down to just three crew

65
00:02:38,440 --> 00:02:33,860
members on board included in that will

66
00:02:39,520 --> 00:02:38,450
be the SpaceX seven mission so one of

67
00:02:40,870 --> 00:02:39,530
the things that we're sort of

68
00:02:42,160 --> 00:02:40,880
constrained on is how much we can

69
00:02:44,710 --> 00:02:42,170
actually do with only three crew members

70
00:02:46,690 --> 00:02:44,720
on board we're going to be pulled pretty

71
00:02:48,010 --> 00:02:46,700
tight during that timeframe and we'll

72
00:02:51,670 --> 00:02:48,020
have to make up for it once we get back

73
00:02:55,470 --> 00:02:51,680
up to six crew the the planning team

74
00:02:58,090 --> 00:02:55,480
your team is also working toward

75
00:03:00,520 --> 00:02:58,100
potentially some space walks this summer

76
00:03:02,050 --> 00:03:00,530
the dates are still I guess to be

77
00:03:03,190 --> 00:03:02,060
determined based on how the schedules

78
00:03:06,220 --> 00:03:03,200
fall out with the launches and

79
00:03:08,350 --> 00:03:06,230
everything but these spacewalks actually

80
00:03:12,580 --> 00:03:08,360
constitute a pretty significant change

81
00:03:14,050 --> 00:03:12,590
to the station in terms of its outer

82
00:03:16,900 --> 00:03:14,060
mold line which we call in the business

83
00:03:19,030 --> 00:03:16,910
I guess but give us an overview of what

84
00:03:21,310 --> 00:03:19,040
that means when we get to that point yes

85
00:03:22,840 --> 00:03:21,320
specifically the one space u.s.

86
00:03:25,120 --> 00:03:22,850
spacewalk that we're trying to get into

87
00:03:27,520 --> 00:03:25,130
the schedule right now has to install

88
00:03:29,350 --> 00:03:27,530

the international docking adapter that

89
00:03:32,860 --> 00:03:29,360
that piece of equipment flies up on the

90
00:03:34,720 --> 00:03:32,870
SpaceX seven mission and it enables the

91
00:03:39,520 --> 00:03:34,730
actual first docking of a commercial

92
00:03:40,990 --> 00:03:39,530
crew vehicle to the ISS so it takes two

93
00:03:43,270 --> 00:03:41,000
crew members to go outside and then also

94
00:03:47,380 --> 00:03:43,280
the help of the Canadian robotic arm and

95
00:03:49,780 --> 00:03:47,390
the the spdm to install this docking

96
00:03:52,720 --> 00:03:49,790
adapter on the front very front end of

97
00:03:54,250 --> 00:03:52,730
the ISS on PMA to once that gets

98
00:03:57,580 --> 00:03:54,260
installed and of course after our

99
00:03:58,930 --> 00:03:57,590
commercial partners get fully ready ISS

100
00:04:00,910 --> 00:03:58,940
will be ready to accept a commercial

101
00:04:02,530 --> 00:04:00,920
crew vehicle so we're very excited about

102
00:04:05,530 --> 00:04:02,540
having that capability brought on board

103
00:04:08,199 --> 00:04:05,540
you also have a number of visiting

104
00:04:11,680 --> 00:04:08,209
vehicles that are planned during during

105
00:04:14,770 --> 00:04:11,690
this increment and and potentially one

106
00:04:16,240 --> 00:04:14,780
of those being relocated at some point

107
00:04:18,460 --> 00:04:16,250
after it arrived what's the story there

108
00:04:21,039 --> 00:04:18,470
so yeah I'm still trying to figure that

109
00:04:23,260 --> 00:04:21,049
out myself um we have this basic seven

110
00:04:26,650 --> 00:04:23,270
mission coming up here in late July and

111
00:04:27,710 --> 00:04:26,660
so once that gets there lots of science

112
00:04:29,960 --> 00:04:27,720
experiments coming up a lot

113
00:04:32,750 --> 00:04:29,970

hardware coming up and including that

114
00:04:34,040 --> 00:04:32,760
international docking adapter and will

115
00:04:35,300 --> 00:04:34,050
the crew will be performing those

116
00:04:38,570 --> 00:04:35,310
experiments trying to transfer all the

117
00:04:40,250 --> 00:04:38,580
cargo and we have dragon stays on board

118
00:04:44,180 --> 00:04:40,260
for about 30 days we might extend this

119
00:04:46,070 --> 00:04:44,190
one closer to 40 if if we can and get it

120
00:04:49,160 --> 00:04:46,080
loaded up with important science samples

121
00:04:52,460 --> 00:04:49,170
and hardware to come home and then later

122
00:04:55,730 --> 00:04:52,470
in August the plan is to launch the HTV

123
00:04:58,640 --> 00:04:55,740
number five which is our jaksa our

124
00:05:01,190 --> 00:04:58,650
japanese transport vehicle and that one

125
00:05:02,840 --> 00:05:01,200
will initially birth to the nadir side

126
00:05:04,390 --> 00:05:02,850
or the bottom side of no 2 that's where

127
00:05:07,250 --> 00:05:04,400
we put most of our cargo vehicles

128
00:05:09,320 --> 00:05:07,260
however the there's the possibility that

129
00:05:11,150 --> 00:05:09,330
the next SpaceX will be coming up right

130
00:05:14,510 --> 00:05:11,160
right after that and we may have to keep

131
00:05:17,390 --> 00:05:14,520
HTTP on board Wow SpaceX is there so we

132
00:05:18,800 --> 00:05:17,400
may be moving the HTTP module to the

133
00:05:21,230 --> 00:05:18,810
node one nadir that's where the

134
00:05:23,840 --> 00:05:21,240
permanent multi-purpose module was just

135
00:05:26,300 --> 00:05:23,850
relocated from and that way we may

136
00:05:29,630 --> 00:05:26,310
actually have two cargo vehicles there

137
00:05:31,460 --> 00:05:29,640
at the same time lots going on and HTV

138
00:05:34,490 --> 00:05:31,470

is plan to stay beyond in the end of

139
00:05:36,980 --> 00:05:34,500
increment 44 into the increment 45 at

140
00:05:38,540 --> 00:05:36,990
the same time will be so use operations

141
00:05:41,390 --> 00:05:38,550
will be going on progress operations

142
00:05:44,540 --> 00:05:41,400
began very busy time what I guess and

143
00:05:46,100 --> 00:05:44,550
early September looks like obviously

144
00:05:48,140 --> 00:05:46,110
there's a lot of science that's going on

145
00:05:50,510 --> 00:05:48,150
related to the one-year mission and that

146
00:05:53,930 --> 00:05:50,520
those that science keeps coming up right

147
00:05:56,120 --> 00:05:53,940
so as with the SpaceX flight correct and

148
00:05:59,930 --> 00:05:56,130
and just because the crew members are

149
00:06:01,880 --> 00:05:59,940
onboard science keeps going you know is

150
00:06:03,950 --> 00:06:01,890
you can imagine a normal person has to

151
00:06:06,409 --> 00:06:03,960
go to the doctor once a year or you may

152
00:06:09,290 --> 00:06:06,419
depending on your health condition need

153
00:06:11,719 --> 00:06:09,300
to go to the doctors more often well to

154
00:06:14,090 --> 00:06:11,729
in order to get good science samples the

155
00:06:15,890 --> 00:06:14,100
crew members are scheduled at regular

156
00:06:18,080 --> 00:06:15,900
intervals to have science samples taken

157
00:06:19,640 --> 00:06:18,090
you talked about vo2 max earlier that's

158
00:06:21,770 --> 00:06:19,650
one of the examples and as you said it's

159
00:06:24,200 --> 00:06:21,780
about once a month if that happens so we

160
00:06:25,700 --> 00:06:24,210
have very flight days specific samples

161
00:06:28,159 --> 00:06:25,710
and activities for the crew that

162
00:06:29,870 --> 00:06:28,169
monitors their health and and that's the

163
00:06:33,320 --> 00:06:29,880

data that the doctors are gathering to

164
00:06:36,320 --> 00:06:33,330
understand the impacts on the body one

165
00:06:38,000 --> 00:06:36,330
last question to touch on it's a busy

166
00:06:40,219 --> 00:06:38,010
agenda obviously especially with three

167
00:06:41,340 --> 00:06:40,229
people up there right now but is it

168
00:06:43,170 --> 00:06:41,350
helpful

169
00:06:45,810 --> 00:06:43,180
having an experienced crew like this one

170
00:06:48,510 --> 00:06:45,820
up up there oh yes I would say it's it's

171
00:06:50,670 --> 00:06:48,520
definitely beneficial to us you know if

172
00:06:52,950 --> 00:06:50,680
we launch new crew members that have

173
00:06:56,190 --> 00:06:52,960
never flown in space before we have to

174
00:06:58,950 --> 00:06:56,200
give them some adaptation time everybody

175
00:07:01,290 --> 00:06:58,960
is affected differently and 20 g some

176
00:07:02,880 --> 00:07:01,300
some people it's like a fish returning

177
00:07:04,980 --> 00:07:02,890
to water other people it's the fish out

178
00:07:07,860 --> 00:07:04,990
of water kind of kind of thing where the

179
00:07:10,560 --> 00:07:07,870
body just needs time to adjust you know

180
00:07:12,510 --> 00:07:10,570
ISS is a very large complex where we

181
00:07:14,010 --> 00:07:12,520
store things everything like that can be

182
00:07:15,840 --> 00:07:14,020
confusing if you have a crew member

183
00:07:18,240 --> 00:07:15,850
that's been there before has served long

184
00:07:20,760 --> 00:07:18,250
duration there before they sort of know

185
00:07:23,250 --> 00:07:20,770
it and we don't have to give them all

186
00:07:25,890 --> 00:07:23,260
that adaptation time and they know where

187
00:07:27,750 --> 00:07:25,900
things are and whatnot so they come up

188
00:07:30,390 --> 00:07:27,760

to speed and can be plugged in really

189
00:07:32,040 --> 00:07:30,400
quickly great well Scott we appreciate

190
00:07:33,210 --> 00:07:32,050
you taking a few minutes to stop by I

191
00:07:35,600 --> 00:07:33,220
know you're in this room all the time

192
00:07:38,850 --> 00:07:35,610
and I'm glad I was able to snag it today