
Payload Operations Integration Center
NASA Marshall Space Flight Center
Huntsville, Alabama
NASA

1
00:00:06,470 --> 00:00:04,150
as the crew continues to work on various

2
00:00:08,710 --> 00:00:06,480
science activities there's a team on the

3
00:00:10,629 --> 00:00:08,720
ground that helps them they're located

4
00:00:12,549 --> 00:00:10,639
in huntsville alabama at the payload

5
00:00:14,789 --> 00:00:12,559
operations integration center at the

6
00:00:17,029 --> 00:00:14,799
marshall space flight center let's join

7
00:00:20,150 --> 00:00:17,039
lori meigs there to learn more about one

8
00:00:21,990 --> 00:00:20,160
of the leaders of this science team lori

9
00:00:24,310 --> 00:00:22,000
we talk a lot about the research that

10
00:00:25,990 --> 00:00:24,320
goes on itself but we don't say so much

11
00:00:28,070 --> 00:00:26,000
about the folks that you see behind me

12
00:00:29,750 --> 00:00:28,080
they work 24 hours a day seven days a

13
00:00:32,069 --> 00:00:29,760

week to accomplish those science goals

14
00:00:33,430 --> 00:00:32,079
and it's very fascinating and very

15
00:00:34,790 --> 00:00:33,440
interesting and very hard work so we

16
00:00:36,630 --> 00:00:34,800
want to learn more about it today

17
00:00:39,110 --> 00:00:36,640
joining me now is stephanie dudley she

18
00:00:40,630 --> 00:00:39,120
is a payload operations director here at

19
00:00:41,910 --> 00:00:40,640
marshall and stephanie you were a flight

20
00:00:43,830 --> 00:00:41,920
control leader and we thought it'd be

21
00:00:46,549 --> 00:00:43,840
interesting to see what it's like maybe

22
00:00:50,790 --> 00:00:46,559
to live a day in the life in your shoes

23
00:00:53,110 --> 00:00:50,800
yes so we work here 24 7 as you said and

24
00:00:54,709 --> 00:00:53,120
we're responsible for all of nasa's

25
00:00:56,709 --> 00:00:54,719
science on the international space

26
00:00:59,830 --> 00:00:56,719
station so the flight control team you

27
00:01:01,510 --> 00:00:59,840
see here are responsible for actually

28
00:01:04,149 --> 00:01:01,520
talking to the crew

29
00:01:06,390 --> 00:01:04,159
sending commands to enable the resources

30
00:01:08,870 --> 00:01:06,400
that the payloads the experiments need

31
00:01:10,710 --> 00:01:08,880
getting the data and video to the ground

32
00:01:14,469 --> 00:01:10,720
making sure the crew can find the tools

33
00:01:15,350 --> 00:01:14,479
that they need to do the experiments and

34
00:01:17,429 --> 00:01:15,360
so

35
00:01:19,109 --> 00:01:17,439
the payload operations director pod is

36
00:01:21,510 --> 00:01:19,119
the leader of the flight control team

37
00:01:23,350 --> 00:01:21,520
that you see here and we work very

38
00:01:24,390 --> 00:01:23,360

closely with the flight director in

39
00:01:25,350 --> 00:01:24,400
houston

40
00:01:29,190 --> 00:01:25,360
and

41
00:01:31,030 --> 00:01:29,200
japanese flight director to do

42
00:01:32,789 --> 00:01:31,040
nasa science

43
00:01:35,190 --> 00:01:32,799
it's exciting we know it takes the crew

44
00:01:36,710 --> 00:01:35,200
special touch but it also takes the work

45
00:01:39,109 --> 00:01:36,720
of you guys tell us a little bit more

46
00:01:40,550 --> 00:01:39,119
about the functions in this room and and

47
00:01:42,389 --> 00:01:40,560
how you help with these experiments

48
00:01:43,749 --> 00:01:42,399
you've got a lot of a lot of experiments

49
00:01:45,749 --> 00:01:43,759
going on now it could be a

50
00:01:48,389 --> 00:01:45,759
record-breaking week i hear actually yes

51
00:01:52,149 --> 00:01:48,399
we are in the middle of what will be a

52
00:01:55,429 --> 00:01:52,159
record-breaking week for crew hours uh

53
00:01:58,550 --> 00:01:55,439
to conduct science so for instance this

54
00:02:00,870 --> 00:01:58,560
week we have uh bass going on at the

55
00:02:02,950 --> 00:02:00,880
burning and suppression of solids

56
00:02:05,590 --> 00:02:02,960
that's a really fun experiment the crew

57
00:02:07,510 --> 00:02:05,600
actually gets to ignite

58
00:02:08,469 --> 00:02:07,520
spacecraft materials and then we see how

59
00:02:10,150 --> 00:02:08,479
does it

60
00:02:12,309 --> 00:02:10,160
how can we extinguish the flames because

61
00:02:13,030 --> 00:02:12,319
that's really important in space

62
00:02:16,390 --> 00:02:13,040
and

63
00:02:17,830 --> 00:02:16,400

reed really loves this experiment

64
00:02:20,630 --> 00:02:17,840
and so he one of the things that he

65
00:02:23,830 --> 00:02:20,640
likes to do is ask us hey i freed up my

66
00:02:25,510 --> 00:02:23,840
day my afternoon can i do some more bass

67
00:02:27,510 --> 00:02:25,520
so that's one of the fun problems that

68
00:02:29,510 --> 00:02:27,520
we have as a pod is getting all the

69
00:02:31,030 --> 00:02:29,520
resources we need

70
00:02:33,190 --> 00:02:31,040
to so that

71
00:02:35,830 --> 00:02:33,200
we can do more science for the the

72
00:02:37,670 --> 00:02:35,840
scientists and also you know accommodate

73
00:02:39,190 --> 00:02:37,680
the crew's request to do more

74
00:02:40,790 --> 00:02:39,200
helps to have a gung-ho crew like that

75
00:02:41,750 --> 00:02:40,800
it does and everything goes as planned

76
00:02:42,869 --> 00:02:41,760
right

77
00:02:49,110 --> 00:02:42,879
no

78
00:02:51,830 --> 00:02:49,120
scientist sees a result that is

79
00:02:53,270 --> 00:02:51,840
unexpected and that's a good thing you

80
00:02:55,750 --> 00:02:53,280
know you don't always get the result

81
00:02:58,790 --> 00:02:55,760
that you expect um in your laboratory at

82
00:03:00,630 --> 00:02:58,800
home um so

83
00:03:03,190 --> 00:03:00,640
it throws a wrench in what you guys do

84
00:03:05,509 --> 00:03:03,200
well right so it changes the course of

85
00:03:07,509 --> 00:03:05,519
the future planning that we do

86
00:03:09,750 --> 00:03:07,519
sometimes

87
00:03:12,390 --> 00:03:09,760
things just don't go as planned for

88
00:03:14,470 --> 00:03:12,400

instance we can't find the right tool or

89
00:03:16,309 --> 00:03:14,480
the mating of a qd

90
00:03:17,670 --> 00:03:16,319
quick disconnect is difficult so the

91
00:03:18,790 --> 00:03:17,680
crew has trouble we have to work them

92
00:03:21,110 --> 00:03:18,800
through that

93
00:03:22,790 --> 00:03:21,120
so we're we're always managing that

94
00:03:24,149 --> 00:03:22,800
timeline if the crew runs behind we're

95
00:03:25,990 --> 00:03:24,159
working with

96
00:03:27,190 --> 00:03:26,000
the flight directors and our partners to

97
00:03:28,229 --> 00:03:27,200
figure out

98
00:03:29,830 --> 00:03:28,239
what

99
00:03:31,830 --> 00:03:29,840
that's left in the day

100
00:03:33,110 --> 00:03:31,840
can be for instance move to another day

101
00:03:34,710 --> 00:03:33,120
so we can get this really important

102
00:03:36,309 --> 00:03:34,720
thing done right now so that's really

103
00:03:38,470 --> 00:03:36,319
when you do your best work but you say

104
00:03:39,910 --> 00:03:38,480
that we talk about planning and planning

105
00:03:41,670 --> 00:03:39,920
and planning

106
00:03:42,789 --> 00:03:41,680
tell us today if we were planning for

107
00:03:44,390 --> 00:03:42,799
the science today when would we be

108
00:03:47,030 --> 00:03:44,400
planning for that so we actually started

109
00:03:49,910 --> 00:03:47,040
planning for today a year ago wow so a

110
00:03:52,390 --> 00:03:49,920
lot of work went in from a year ago to

111
00:03:54,949 --> 00:03:52,400
actually what we're doing today so we've

112
00:03:55,830 --> 00:03:54,959
got bass today we have some ultrasounds

113
00:03:57,910 --> 00:03:55,840

later

114
00:04:00,789 --> 00:03:57,920
ocular health experiment

115
00:04:03,030 --> 00:04:00,799
that looks at changing changes in the

116
00:04:05,429 --> 00:04:03,040
eyes of the astronauts because that's

117
00:04:06,550 --> 00:04:05,439
really a risk to long duration space

118
00:04:08,789 --> 00:04:06,560
flight

119
00:04:10,070 --> 00:04:08,799
we're doing a colloid experiment all

120
00:04:11,990 --> 00:04:10,080
kinds of stuff that we're doing today we

121
00:04:13,910 --> 00:04:12,000
started planning a year ago and some

122
00:04:16,789 --> 00:04:13,920
planning going on right now here at

123
00:04:19,990 --> 00:04:16,799
marshall right yes actually we have

124
00:04:22,629 --> 00:04:20,000
over 200 scientists engineers flight

125
00:04:24,150 --> 00:04:22,639
controllers from around the world here

126
00:04:25,670 --> 00:04:24,160
in huntsville at marshall space flight

127
00:04:27,749 --> 00:04:25,680
center this week

128
00:04:30,390 --> 00:04:27,759
we have a twice yearly

129
00:04:33,189 --> 00:04:30,400
meeting we all get together and we

130
00:04:35,590 --> 00:04:33,199
plan for the coming expeditions

131
00:04:37,990 --> 00:04:35,600
so we're specifically targeting the one

132
00:04:40,150 --> 00:04:38,000
that starts in september later this year

133
00:04:43,749 --> 00:04:40,160
but also looking at a year out and and

134
00:04:46,550 --> 00:04:43,759
how can we um define the collaboration

135
00:04:48,070 --> 00:04:46,560
now so that the operations go smoother

136
00:04:49,590 --> 00:04:48,080
when we actually get to the day that we

137
00:04:51,909 --> 00:04:49,600
execute it so these are folks that will

138
00:04:54,150 --> 00:04:51,919

have their payloads flying in the fall

139
00:04:55,510 --> 00:04:54,160
yes all right and you tell them your

140
00:04:56,870 --> 00:04:55,520
processes too they have to learn all of

141
00:04:59,510 --> 00:04:56,880
that right

142
00:05:03,189 --> 00:04:59,520
and we just uh hit a milestone

143
00:05:04,550 --> 00:05:03,199
5000 days right yeah so that's busy work

144
00:05:06,469 --> 00:05:04,560
5 000

145
00:05:09,029 --> 00:05:06,479
continuous

146
00:05:11,270 --> 00:05:09,039
human presence on the iss

147
00:05:13,029 --> 00:05:11,280
on july 12th so that's a that's a big

148
00:05:15,670 --> 00:05:13,039
deal that's a long time and we've been

149
00:05:18,230 --> 00:05:15,680
here 24 7 even on christmas

150
00:05:19,990 --> 00:05:18,240
ever since and still will be stephanie

151
00:05:22,230 --> 00:05:20,000
thank you for joining us uh stephanie

152
00:05:25,350 --> 00:05:22,240
actually shared what it's life like

153
00:05:27,830 --> 00:05:25,360
life is like as a pod on a lavalof blog

154
00:05:31,110 --> 00:05:27,840
so you can check that out online and