



**SPACESTATION
LIVE**

1
00:00:07,749 --> 00:00:06,070
flight controllers here in the payload

2
00:00:09,750 --> 00:00:07,759
operations integration center work with

3
00:00:11,669 --> 00:00:09,760
crew members every day to make science

4
00:00:13,110 --> 00:00:11,679
happen now most of the time that's just

5
00:00:14,870 --> 00:00:13,120
for a six month mission and then a new

6
00:00:16,470 --> 00:00:14,880
crew arrives well we wondered what it's

7
00:00:19,029 --> 00:00:16,480
been like to work with a crew member for

8
00:00:20,310 --> 00:00:19,039
an entire year apparently communication

9
00:00:22,070 --> 00:00:20,320
is the key one of our payload

10
00:00:23,910 --> 00:00:22,080
communicators samantha harris joins me

11
00:00:25,589 --> 00:00:23,920
now samantha you're one of the handful

12
00:00:27,269 --> 00:00:25,599
of people in this room that actually

13
00:00:30,150 --> 00:00:27,279

gets to speak to the astronauts directly

14

00:00:32,069 --> 00:00:30,160

tell us about that yeah so i am a pacom

15

00:00:34,069 --> 00:00:32,079

or payload communications manager which

16

00:00:36,069 --> 00:00:34,079

means it's my job to manage all of the

17

00:00:38,150 --> 00:00:36,079

written and verbal communication between

18

00:00:40,229 --> 00:00:38,160

the payload operation integration center

19

00:00:42,389 --> 00:00:40,239

here in huntsville alabama and the

20

00:00:43,990 --> 00:00:42,399

astronaut crew onboard the space station

21

00:00:45,750 --> 00:00:44,000

i'm sure you build relationships with

22

00:00:47,750 --> 00:00:45,760

them even before they launch with

23

00:00:49,190 --> 00:00:47,760

training but i'm curious if this

24

00:00:50,709 --> 00:00:49,200

one-year mission has really been

25

00:00:52,869 --> 00:00:50,719

different for you guys

26

00:00:55,029 --> 00:00:52,879

uh yes it has been actually different in

27

00:00:56,630 --> 00:00:55,039

a lot of interesting ways so a lot of

28

00:00:58,389 --> 00:00:56,640

the time when we work with crew members

29

00:01:00,229 --> 00:00:58,399

for less periods of time

30

00:01:01,910 --> 00:01:00,239

sometimes we'll let things go things

31

00:01:03,830 --> 00:01:01,920

that normally

32

00:01:05,750 --> 00:01:03,840

for a shorter duration of time might not

33

00:01:06,870 --> 00:01:05,760

end up being issues because we know that

34

00:01:08,630 --> 00:01:06,880

we're not going to be working with that

35

00:01:09,590 --> 00:01:08,640

crew member for a prolonged period of

36

00:01:11,270 --> 00:01:09,600

time

37

00:01:13,030 --> 00:01:11,280

but with someone like scott kelly who we

38

00:01:14,789 --> 00:01:13,040

know is going to be up there for a year

39

00:01:16,310 --> 00:01:14,799

we want to correct these issues because

40

00:01:18,070 --> 00:01:16,320

we know that it's going to be a longer

41

00:01:19,350 --> 00:01:18,080

duration relationship

42

00:01:20,710 --> 00:01:19,360

and so scott wants these things

43

00:01:22,310 --> 00:01:20,720

corrected and we on the ground want

44

00:01:24,390 --> 00:01:22,320

these kinds of things corrected as well

45

00:01:25,910 --> 00:01:24,400

so that's been an interesting aspect of

46

00:01:27,429 --> 00:01:25,920

working with a crew member for a longer

47

00:01:29,350 --> 00:01:27,439

period of time pretty much like working

48

00:01:31,429 --> 00:01:29,360

here on the ground with everyone else

49

00:01:32,469 --> 00:01:31,439

i'm sure there's also a psychological

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00:01:34,710 --> 00:01:32,479

aspect

51
00:01:37,190 --> 00:01:34,720
to to this as well and and you guys do

52
00:01:39,190 --> 00:01:37,200
become kind of like family i guess

53
00:01:40,390 --> 00:01:39,200
yes that's true so we get to interact

54
00:01:42,550 --> 00:01:40,400
with them a little bit while they're on

55
00:01:43,990 --> 00:01:42,560
the ground and then when they fly

56
00:01:45,910 --> 00:01:44,000
we know that scott's been going through

57
00:01:47,749 --> 00:01:45,920
some difficult things on orbit trying to

58
00:01:49,350 --> 00:01:47,759
live up there for a year

59
00:01:51,270 --> 00:01:49,360
apart from everybody on the ground and

60
00:01:52,789 --> 00:01:51,280
so trying to help him get through that

61
00:01:54,389 --> 00:01:52,799
to build that trust with him is one of

62
00:01:56,630 --> 00:01:54,399
the few voices that he hears on a

63
00:01:59,429 --> 00:01:56,640

regular basis i'm trying to build that

64

00:02:00,550 --> 00:01:59,439

trust and we're trying to get

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00:02:02,230 --> 00:02:00,560

we're trying to learn more from this

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00:02:04,389 --> 00:02:02,240

one-year mission to to get to somewhere

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00:02:06,069 --> 00:02:04,399

like mars yes exactly so one of the

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00:02:07,749 --> 00:02:06,079

biggest things we're trying to do is

69

00:02:10,150 --> 00:02:07,759

learn more about the psychological

70

00:02:11,750 --> 00:02:10,160

aspects of living in space for prolonged

71

00:02:14,229 --> 00:02:11,760

periods of time

72

00:02:16,790 --> 00:02:14,239

and so there are a lot of aspects to

73

00:02:18,470 --> 00:02:16,800

that so things like learning how perhaps

74

00:02:20,309 --> 00:02:18,480

having plants on board the space station

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00:02:22,229 --> 00:02:20,319

with our veggie experiment

76

00:02:24,390 --> 00:02:22,239

being able to eat fresh food and have

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00:02:25,990 --> 00:02:24,400

flowers growing in space can impact the

78

00:02:27,589 --> 00:02:26,000

psychological

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00:02:28,869 --> 00:02:27,599

elements and the mood of our crew

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00:02:31,190 --> 00:02:28,879

members

81

00:02:32,869 --> 00:02:31,200

also things like comfort food so we have

82

00:02:34,790 --> 00:02:32,879

an experiment called astro palette

83

00:02:36,470 --> 00:02:34,800

learning how crew members how their mood

84

00:02:39,110 --> 00:02:36,480

is impacted by having things like

85

00:02:41,190 --> 00:02:39,120

comfort food available on orbit

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00:02:42,229 --> 00:02:41,200

and a lot more science to come even

87

00:02:43,830 --> 00:02:42,239

though he's coming home in two weeks

88

00:02:45,270 --> 00:02:43,840

we'll learn a lot more about what you

89

00:02:47,190 --> 00:02:45,280

guys have been working on for the past

90

00:02:49,670 --> 00:02:47,200

year probably in the next year or two

91

00:02:51,589 --> 00:02:49,680

yes that's true a lot about all kinds of

92

00:02:53,350 --> 00:02:51,599

different things and again also our

93

00:02:55,430 --> 00:02:53,360

habitability experiment so learning how

94

00:02:56,869 --> 00:02:55,440

to better design vehicles for the future

95

00:02:58,309 --> 00:02:56,879

that can help our crew members to be

96

00:03:00,390 --> 00:02:58,319

more effective and efficient as they

97

00:03:02,630 --> 00:03:00,400

live in space for longer periods of time

98

00:03:05,030 --> 00:03:02,640

and i'm sure you have plenty of stories