



1
00:00:03,560 --> 00:00:06,860
Station this is Houston
are you ready for the event?

2
00:00:09,860 --> 00:00:11,640
Yes, I'm ready for the event.

3
00:00:13,580 --> 00:00:17,640
Fox and Friends this is Mission Control Houston please call station for voice check.

4
00:00:20,340 --> 00:00:24,120
This year astronaut Peggy Whitson breaking

5
00:00:24,120 --> 00:00:28,619
records for the longest time spent in
outer space more than any American in

6
00:00:28,619 --> 00:00:33,090
NASA history and she's still there live
from outer space joining us from the

7
00:00:33,090 --> 00:00:36,239
International Space Station it's Peggy
Whitson. Peggy

8
00:00:36,239 --> 00:00:41,070
is it good morning good afternoon up
there would you explain for our audience

9
00:00:41,070 --> 00:00:44,250
right now what a day is like on the
International Space Station because you

10
00:00:44,250 --> 00:00:48,210
keep going around the earth and I can't
imagine how many times it's light it's

11
00:00:48,210 --> 00:00:51,680
dark it's light it's dark.

12

00:00:53,220 --> 00:00:55,760

Actually

that's great we go around the Earth 16

13

00:00:55,760 --> 00:01:03,080

times in a day so we're going 17,500

miles an hour it's an amazing sensation

14

00:01:03,080 --> 00:01:09,280

and we so we get to see a sunrise and a

sunset about every 45 minutes. We don't

15

00:01:09,300 --> 00:01:14,430

have too many windows on this station so

it's not like it's too disruptive to our

16

00:01:14,430 --> 00:01:21,330

work and we we get up at a 6 a.m. GMT

Greenwich Mean Time and go to bed around

17

00:01:21,330 --> 00:01:26,840

9:00 at night and during the daytime we

have a lot of different scheduled activities.

18

00:01:30,200 --> 00:01:33,620

Now Peggy I understand the

President called you to congratulate you

19

00:01:33,630 --> 00:01:38,040

you have the most spacewalks of any

other any woman ever to go to the

20

00:01:38,040 --> 00:01:41,310

International Space Station so we want

they congratulations what was it like to

21

00:01:41,310 --> 00:01:43,480

get a phone call in space from the

President?

22

00:01:46,780 --> 00:01:48,340

Well that was very special to

23

00:01:48,360 --> 00:01:53,310

get that phone call it's great when NASA gets acknowledged for some of the things

24

00:01:53,310 --> 00:01:57,600

that we're doing up here and it was just very special,

25

00:02:00,420 --> 00:02:04,840

What do you learn about yourself after spending 500 plus days in space?

26

00:02:08,440 --> 00:02:13,060

Well I think you learn you do learn a lot about yourself you learn a lot about how to

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00:02:13,069 --> 00:02:17,180

live and work in teams and I've lived up and worked up here with many different

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00:02:17,180 --> 00:02:23,150

people and it's interesting how the character of the mission changes on each

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00:02:23,150 --> 00:02:28,690

day with each crew mix and so we have a fantastic time figuring that out

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00:02:28,690 --> 00:02:35,750

figuring out what what means something to you and what what we need to work to

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00:02:35,750 --> 00:02:38,860

strive to make ourselves better to interact better to get more work done

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00:02:38,860 --> 00:02:41,940

all of that's important part of what we
do up here.

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00:02:45,500 --> 00:02:51,980

April 24th you surpassed the record for the most cumulative time in space by a u.s. astronaut which was 534

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00:02:51,980 --> 00:02:56,810

days by the time you come down it will
be over 600 days where you've learned

35

00:02:56,810 --> 00:03:01,430

how to twirl the microphone like that.
Just out of curiosity because you

36

00:03:01,430 --> 00:03:04,820

haven't been on earth for so long, Peggy what's so what's the big thing

37

00:03:04,820 --> 00:03:10,420

you're really missing about life on
Earth and having your hand on terra firma,

38

00:03:13,760 --> 00:03:17,680

Well obviously you know having
friends and family that you can hug we

39

00:03:17,690 --> 00:03:23,739

can call them on our IP phone or send
emails but being there and being able to

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00:03:23,739 --> 00:03:30,410

touch and be with your loved ones is
really important. I think probably though

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00:03:30,410 --> 00:03:35,239

in general I missed the ability to cook
my own food you know we most of our

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00:03:35,239 --> 00:03:39,680

stuff out of packages and as though as

creative as I try to be with food up

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00:03:39,680 --> 00:03:44,540

here there's limited number of supplies
that we have to make things new and

44

00:03:44,540 --> 00:03:48,139

different and so I think that's probably
the biggest challenge and the thing I

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00:03:48,139 --> 00:03:53,480

miss most. I like cooking and I also like
gardening and ha being and I miss that a

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00:03:53,480 --> 00:03:57,590

little bit I did get the opportunity
however though to grow some lettuce and

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00:03:57,590 --> 00:04:00,360

some cabbage which we did get to eat
that was great.

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00:04:02,860 --> 00:04:03,660

Excellent!

49

00:04:04,180 --> 00:04:06,840

Wow

well I think we can all say officially

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00:04:06,859 --> 00:04:09,590

this is the first time we've talked to
anyone in space. Peggy thank you for

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00:04:09,590 --> 00:04:13,209

doing this for our country and
and we wish you all the best. Peggy

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00:04:13,209 --> 00:04:16,090

Whitman thanks so much congratulations
on the record we appreciate it we'll

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00:04:16,090 --> 00:04:21,720

check in with you again. I find myself
doing the interview like this. Bye!

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00:04:25,700 --> 00:04:31,020

Station this is Houston ACR that concludes the Fox News Fox and Friends portion of the

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00:04:31,020 --> 00:04:35,280

event please standby for a voice check
from Bloomberg Television.

56

00:04:42,400 --> 00:04:45,760

Commander Whitson this is Patrick in
the New York. Can you hear me okay?

57

00:04:48,520 --> 00:04:50,800

Yes I have you loud and clear.
How do you hear me?

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00:04:54,280 --> 00:04:58,780

We are seeing and hearing you just fine. Thank you very much for joining us. Please stand by I'll

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00:04:58,780 --> 00:05:00,300

hand you off to the control room.

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00:05:02,780 --> 00:05:05,300

Okay, we're going to go in a different

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00:05:05,320 --> 00:05:07,460

direction here Jonathan. Back in the day
NASA was the only game in town when it

62

00:05:07,480 --> 00:05:11,919

came to us space exploration but now
there's Elon Musk's SpaceX and Jeff

63

00:05:11,919 --> 00:05:16,599

Bezos Blue Origin. So, are they

competitors are they partners as we seek

64

00:05:16,599 --> 00:05:19,930

to go beyond the bounds of Earth. Here
for a unique perspective is NASA

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00:05:19,930 --> 00:05:23,139

astronaut Peggy Whitson
the first female commander of the

66

00:05:23,139 --> 00:05:26,740

International Space Station the holder
of the record for the longest time spent

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00:05:26,740 --> 00:05:30,610

in space and now on her third
long-duration spaceflight she joins us

68

00:05:30,610 --> 00:05:33,920

from the International Space Station
roughly 250 miles above us.

69

00:05:34,570 --> 00:05:37,880

This is the sign on - Station this is Bloomberg television how do you hear me?

70

00:05:40,860 --> 00:05:43,360

I have you loud and clear
welcome aboard.

71

00:05:46,480 --> 00:05:50,820

Okay, thanks so much it's great to be with you. So you've spent a lot of time in space over the last 15

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00:05:50,830 --> 00:05:55,570

years now Peggy. What are you doing up
there and what are you most excited

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00:05:55,570 --> 00:05:57,220

about that you're working on?

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00:06:00,060 --> 00:06:01,800

Actually we're doing an incredible amount of

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00:06:01,810 --> 00:06:05,669

science these days up here and which I'm actually very happy about. As a

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00:06:05,669 --> 00:06:11,680

biochemist my favorite experiments I'm a little biased toward those that are more

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00:06:11,680 --> 00:06:17,199

biochemistry oriented so I have good one this morning genes in space another one

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00:06:17,199 --> 00:06:22,870

that I've been working on growing cardiac stem cells and so we do a lot of

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00:06:22,870 --> 00:06:25,850

diverse things up here though there are many different studies

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00:06:25,850 --> 00:06:30,800

looking at physical properties we have a combustion rack where we do different

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00:06:30,800 --> 00:06:37,490

burning principles with the lack of gravity just as a variable that they can

82

00:06:37,490 --> 00:06:43,630

compare to for a ground study. So there's lots of different biophysical physics

83

00:06:43,630 --> 00:06:48,830

engineering types of investigations going on. In fact we have around 280

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00:06:48,830 --> 00:06:53,270

investigations going on at any one point in time. Obviously we're not doing all of

85

00:06:53,270 --> 00:06:57,500

those but we do get our hands on many of them so it's a lot of fun.

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00:07:01,220 --> 00:07:05,920

So as a NASA astronaut Peggy you of course are involved with the government. A lot of

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00:07:05,920 --> 00:07:08,780

the news right now about space actually is coming from the private sector with

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00:07:08,780 --> 00:07:13,130

Elon Musk for example. If you were doing it all over again would Elon Musk be

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00:07:13,130 --> 00:07:16,820

your boss or are there some things that private can do that public can't and the

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00:07:16,820 --> 00:07:18,780

public can do that private can't.

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00:07:22,320 --> 00:07:25,820

Well I think at the place we are right now the

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00:07:25,820 --> 00:07:31,760

government can do more but that is for instance we're seeding some of the money

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00:07:31,760 --> 00:07:39,200

seed money for some of the commercial providers SpaceX and Orbital ATK are

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00:07:39,200 --> 00:07:44,000

providing cargo up here to the space station hopefully in the next year or so

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00:07:44,000 --> 00:07:49,400

we'll be actually getting crew supplied
by SpaceX or Boeing and so I think that

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00:07:49,400 --> 00:07:54,520

the commercial the private the
government to commercialization is

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00:07:54,520 --> 00:07:59,539

transitioning right now and it's
fantastic to see the cargo coming up on

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00:07:59,539 --> 00:08:05,419

all these different vehicles and I
really do think it's the future because

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00:08:05,419 --> 00:08:14,030

just like aviation it has to expand in
order to be really prolific and having

100

00:08:14,030 --> 00:08:19,010

these these programs in place now is a
definitely a stepping stone for further

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00:08:19,010 --> 00:08:23,620

development and that allows the
government then to spend more money on

102

00:08:23,620 --> 00:08:28,940

going and expend and exploring beyond
low-earth orbit which is what the

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00:08:28,940 --> 00:08:34,729

current limitations are planned for for
some of the commercial providers and and

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00:08:34,729 --> 00:08:37,690

we do hope to encourage them to continue
on actually

105

00:08:37,690 --> 00:08:39,820

into further deep space as well.

106

00:08:42,580 --> 00:08:45,360

So finally Peggy let's go way beyond lower

107

00:08:45,360 --> 00:08:48,700

Earth orbit a lot of talk right now

about colonizing Mars actually going to

108

00:08:48,880 --> 00:08:52,360

Mars and living there you've been living

in space a fair amount of your life now

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00:08:52,360 --> 00:08:57,190

over the last 15 years is that a

realistic goal to set to actually have a

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00:08:57,190 --> 00:08:58,400

colony on Mars?

111

00:09:02,400 --> 00:09:05,100

I do think it's a fantastic goal to have we should have

112

00:09:05,110 --> 00:09:09,760

colonies on Mars and the moon and we

should be expanding and exploring even

113

00:09:09,760 --> 00:09:15,490

further. So yes and I think it's going to

take some technology development and

114

00:09:15,490 --> 00:09:19,240

we're going to and we're using the

International Space Station here to

115

00:09:19,240 --> 00:09:23,440

perfect some of those technologies. For

instance if we go on a multi-year

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00:09:23,440 --> 00:09:29,110

mission to Mars we need to be able to have a closed life-support system which

117

00:09:29,110 --> 00:09:34,780

means we need to be able to process our urine and make it into drinking water. We

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00:09:34,780 --> 00:09:41,740

do that here onboard the space station and you know we're at about 85% of what

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00:09:41,740 --> 00:09:46,660

we call closing the loop of life-support systems at least in the water balance

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00:09:46,660 --> 00:09:54,070

system and so it's very exciting to be a part of those investigations those

121

00:09:54,080 --> 00:09:57,580

testing engineering and testing that are going on up here right now.

122

00:10:00,740 --> 00:10:03,900

Thank you so much it's a real privilege to talk to you. That's NASA astronaut

123

00:10:03,910 --> 00:10:04,986

Peggy Whitson.

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00:10:04,986 --> 00:10:07,420

Johnathan I just got a tweet from someone Gordon moon man he

125

00:10:07,420 --> 00:10:08,940

said Peggy Whitson.

126

00:10:10,620 --> 00:10:13,680

Station this is

Houston ACR that concludes the event

127

00:10:16,420 --> 00:10:20,460

Thank you Fox News Fox & Friends and

Bloomberg Television. Station we are now