
esa

1
00:00:06,230 --> 00:00:04,070
joining us now live from the nemo 16

2
00:00:08,950 --> 00:00:06,240
mission deep underwater off the coast of

3
00:00:10,470 --> 00:00:08,960
key largo florida is astronaut tim peak

4
00:00:12,150 --> 00:00:10,480
tim it looks like you've got some guests

5
00:00:14,310 --> 00:00:12,160
out there outside the window let us know

6
00:00:17,109 --> 00:00:14,320
uh what's going on down there at emo 16

7
00:00:19,269 --> 00:00:17,119
today

8
00:00:21,429 --> 00:00:19,279
yeah this is the best seat in the house

9
00:00:23,029 --> 00:00:21,439
really um this window is fascinating we

10
00:00:26,230 --> 00:00:23,039
all sit around here at the evening and

11
00:00:28,870 --> 00:00:26,240
have a have our dinner and um we often

12
00:00:31,029 --> 00:00:28,880
get goliath groupers coming by in

13
00:00:33,270 --> 00:00:31,039

barracuda we've seen ray's it's

14
00:00:35,350 --> 00:00:33,280
absolutely fantastic but of course we're

15
00:00:37,270 --> 00:00:35,360
not just down here to watch the fish at

16
00:00:39,910 --> 00:00:37,280
the moment as i speak we've got uh two

17
00:00:42,229 --> 00:00:39,920
of our guys steve and kimia who are

18
00:00:44,229 --> 00:00:42,239
outside on the asteroid surface and

19
00:00:46,069 --> 00:00:44,239
they're trying out their jet packs today

20
00:00:47,270 --> 00:00:46,079
so it's a great day today for the nemo

21
00:00:48,630 --> 00:00:47,280
mission

22
00:00:49,910 --> 00:00:48,640
so talk a bit about you guys are down

23
00:00:51,189 --> 00:00:49,920
there for about two weeks what's what's

24
00:00:55,110 --> 00:00:51,199
ahead in the days to come what are you

25
00:00:58,709 --> 00:00:56,869
yes we're on mission day 4 at the moment

26
00:01:00,470 --> 00:00:58,719
what we've been working on so far is

27
00:01:03,510 --> 00:01:00,480
trying out different translation

28
00:01:06,550 --> 00:01:03,520
techniques using uh cables to see how

29
00:01:08,149 --> 00:01:06,560
that works using a boom um and we're

30
00:01:10,230 --> 00:01:08,159
we're kind of assessing how we will be

31
00:01:12,390 --> 00:01:10,240
able to do this for real on an asteroid

32
00:01:15,030 --> 00:01:12,400
working in pairs working as in

33
00:01:16,469 --> 00:01:15,040
individuals and moving on to next week

34
00:01:18,870 --> 00:01:16,479
we're going to be looking at how we can

35
00:01:21,030 --> 00:01:18,880
do this whilst using space exploration

36
00:01:23,590 --> 00:01:21,040
vehicles as well so we'll have deep

37
00:01:26,469 --> 00:01:23,600
worker submersibles coming down working

38
00:01:28,710 --> 00:01:26,479

with us and seeing how that might maybe

39
00:01:29,910 --> 00:01:28,720
improve the efficiency or not

40
00:01:31,190 --> 00:01:29,920
what do you think the biggest challenge

41
00:01:32,950 --> 00:01:31,200
has been so far that you guys have

42
00:01:34,310 --> 00:01:32,960
discovered has there been any surprises

43
00:01:38,149 --> 00:01:34,320
or anything been easier than what you

44
00:01:42,630 --> 00:01:40,870
um i think it's be we had so much great

45
00:01:44,630 --> 00:01:42,640
preparation and training for this event

46
00:01:47,109 --> 00:01:44,640
everything so far has gone pretty much

47
00:01:48,550 --> 00:01:47,119
as expected um but i say when i say it's

48
00:01:51,030 --> 00:01:48,560
going to expect it there's an enormous

49
00:01:52,310 --> 00:01:51,040
amount of fun and it really is a great

50
00:01:54,149 --> 00:01:52,320
challenge to be able to get into the

51
00:01:57,670 --> 00:01:54,159
water we've had a huge amount of help

52
00:01:59,270 --> 00:01:57,680
and support from a vast air people who

53
00:02:01,990 --> 00:01:59,280
are back on the surface helping us and

54
00:02:04,149 --> 00:02:02,000
also down here in the water as we dive

55
00:02:05,429 --> 00:02:04,159
so everything so far is is running to

56
00:02:06,630 --> 00:02:05,439
the plan

57
00:02:08,949 --> 00:02:06,640
so do you think that you guys are ready

58
00:02:10,949 --> 00:02:08,959
to go uh venture out to an asteroid in

59
00:02:15,430 --> 00:02:10,959
the next coming weeks or something or

60
00:02:18,790 --> 00:02:17,190
i'll be the first to volunteer but i do

61
00:02:20,070 --> 00:02:18,800
think that we've got a lot of lessons to

62
00:02:21,750 --> 00:02:20,080
learn and that's the great thing about

63
00:02:24,150 --> 00:02:21,760

what we're doing here is this is the

64
00:02:26,550 --> 00:02:24,160
right place to learn the lessons um

65
00:02:28,710 --> 00:02:26,560
let's do it now let's get some great

66
00:02:30,390 --> 00:02:28,720
data find out what works find out what

67
00:02:32,869 --> 00:02:30,400
doesn't work and in the long run that

68
00:02:35,110 --> 00:02:32,879
will save a vast amount of time and

69
00:02:37,509 --> 00:02:35,120
money and it's really a huge privilege

70
00:02:39,830 --> 00:02:37,519
to be able to contribute to a mission

71
00:02:41,589 --> 00:02:39,840
like this that is is looking to the the

72
00:02:43,750 --> 00:02:41,599
next step really in mankind's

73
00:02:45,990 --> 00:02:43,760
exploration out into the solar system

74
00:02:47,430 --> 00:02:46,000
it's absolutely fascinating well last

75
00:02:48,869 --> 00:02:47,440
question for you tim how does it you

76
00:02:49,990 --> 00:02:48,879
know what are the benefits we asked stan

77
00:02:51,990 --> 00:02:50,000
and mike this yesterday what are the

78
00:02:53,350 --> 00:02:52,000
benefits of of working in the water and

79
00:02:57,830 --> 00:02:53,360
training in the water and how does it

80
00:03:02,309 --> 00:02:59,750
well what the water does is it gives us

81
00:03:05,110 --> 00:03:02,319
neutral buoyancy and with coming really

82
00:03:08,149 --> 00:03:05,120
quite good now again it's correct with

83
00:03:10,869 --> 00:03:08,159
ankle weights and with uh wings on our

84
00:03:13,509 --> 00:03:10,879
backs which give us air buoyancy so we

85
00:03:16,550 --> 00:03:13,519
can simulate how it's going to feel like

86
00:03:18,470 --> 00:03:16,560
in zero gravity and we've been wearing

87
00:03:20,390 --> 00:03:18,480
the emu suits as well the full

88
00:03:22,710 --> 00:03:20,400

pressurized spacesuit so we we know what

89
00:03:25,190 --> 00:03:22,720
it's like to be in a spacesuit we know

90
00:03:27,830 --> 00:03:25,200
what it feels like to be in zero gravity

91
00:03:30,229 --> 00:03:27,840
and the water lets us do that so we can

92
00:03:32,949 --> 00:03:30,239
really put ourselves in a position where

93
00:03:34,869 --> 00:03:32,959
we're on an asteroid surface and to try

94
00:03:36,789 --> 00:03:34,879
out these tools and techniques and to

95
00:03:38,229 --> 00:03:36,799
really evaluate what works and what

96
00:03:39,830 --> 00:03:38,239
doesn't work and how we're going to do

97
00:03:41,030 --> 00:03:39,840
this task

98
00:03:42,630 --> 00:03:41,040
well tim we want to thank you for

99
00:03:44,550 --> 00:03:42,640
joining us you guys enjoy your time down

100
00:03:47,990 --> 00:03:44,560
there and uh enjoy the view out the