



## Three More Planets For Kepler

1  
00:00:07,279 --> 00:00:10,549  
this week at nasa

2  
00:00:24,070 --> 00:00:11,430  
four

3  
00:00:28,230 --> 00:00:25,910  
now that the antares rocket and its

4  
00:00:29,910 --> 00:00:28,240  
simulated cygnus spacecraft have

5  
00:00:31,669 --> 00:00:29,920  
successfully test launched from the

6  
00:00:34,389 --> 00:00:31,679  
mid-atlantic regional spaceport at

7  
00:00:36,630 --> 00:00:34,399  
wallops flight facility program managers

8  
00:00:38,950 --> 00:00:36,640  
at nasa and orbital sciences corporation

9  
00:00:41,350 --> 00:00:38,960  
are looking ahead to the cargo delivery

10  
00:00:43,270 --> 00:00:41,360  
system's next milestone this is what

11  
00:00:45,350 --> 00:00:43,280  
we've said we wanted

12  
00:00:47,029 --> 00:00:45,360  
you know we wanted to have

13  
00:00:49,430 --> 00:00:47,039

what we consider to be a viable

14

00:00:51,270 --> 00:00:49,440

commercial option to get cargo to the

15

00:00:52,630 --> 00:00:51,280

international space station the cygnus

16

00:00:54,470 --> 00:00:52,640

spacecraft that will fly to the space

17

00:00:55,670 --> 00:00:54,480

station has actually been fueled it's

18

00:00:57,830 --> 00:00:55,680

ready to be transferred into the

19

00:00:59,830 --> 00:00:57,840

horizontal integration facility and as

20

00:01:01,830 --> 00:00:59,840

soon as that rocket is ready to receive

21

00:01:03,270 --> 00:01:01,840

it we'll integrate the two together and

22

00:01:05,670 --> 00:01:03,280

it'll be ready to roll out to the pad

23

00:01:07,270 --> 00:01:05,680

sometime this summer cygnus is designed

24

00:01:08,950 --> 00:01:07,280

to deliver supplies and science

25

00:01:11,270 --> 00:01:08,960

experiments to the international space

26  
00:01:14,230 --> 00:01:11,280  
station under nasa's commercial orbital

27  
00:01:16,789 --> 00:01:14,240  
transportation services or cots program

28  
00:01:19,350 --> 00:01:16,799  
on this test flight antares also

29  
00:01:21,670 --> 00:01:19,360  
delivered to orbit a trio of phone set

30  
00:01:24,149 --> 00:01:21,680  
nano satellites designed and built at

31  
00:01:26,390 --> 00:01:24,159  
ames research center to showcase the

32  
00:01:31,590 --> 00:01:26,400  
ability to launch and deliver to space

33  
00:01:35,749 --> 00:01:33,350  
progress on final assembly and

34  
00:01:37,910 --> 00:01:35,759  
integration of the orion spacecraft was

35  
00:01:39,990 --> 00:01:37,920  
showcased for news media at the kennedy

36  
00:01:41,030 --> 00:01:40,000  
space center's operations and checkout

37  
00:01:43,429 --> 00:01:41,040  
building

38  
00:01:46,149 --> 00:01:43,439

ksc director bob cabana and others

39

00:01:48,950 --> 00:01:46,159

detailed the status of nasa's next space

40

00:01:52,069 --> 00:01:48,960

capsule and its uncrewed exploration

41

00:01:55,190 --> 00:01:52,079

flight test 1 scheduled for next year

42

00:01:57,910 --> 00:01:55,200

eft-1 which will send orion some 3 600

43

00:01:59,910 --> 00:01:57,920

miles into space will test the capsule's

44

00:02:02,310 --> 00:01:59,920

heat shield as it re-enters earth's

45

00:02:04,389 --> 00:02:02,320

atmosphere at high speeds similar to

46

00:02:07,749 --> 00:02:04,399

those experienced by spacecraft

47

00:02:09,270 --> 00:02:07,759

returning from deep space

48

00:02:10,869 --> 00:02:09,280

the occasion also marked the

49

00:02:13,430 --> 00:02:10,879

announcement three years ago by

50

00:02:16,309 --> 00:02:13,440

president obama of his goals for nasa

51  
00:02:18,710 --> 00:02:16,319  
and space exploration including sending

52  
00:02:23,430 --> 00:02:18,720  
humans to an asteroid something orion

53  
00:02:28,150 --> 00:02:25,589  
deputy administrator lori garver

54  
00:02:30,869 --> 00:02:28,160  
addressed attendees of gathering for

55  
00:02:32,790 --> 00:02:30,879  
impact the third international academy

56  
00:02:35,430 --> 00:02:32,800  
of astronautics planetary defense

57  
00:02:38,229 --> 00:02:35,440  
conference in flagstaff arizona

58  
00:02:40,470 --> 00:02:38,239  
the five-day event addressed strategies

59  
00:02:43,350 --> 00:02:40,480  
for deflecting an asteroid and civil

60  
00:02:45,030 --> 00:02:43,360  
defense response should impact threaten

61  
00:02:46,390 --> 00:02:45,040  
well nasa is all about

62  
00:02:47,750 --> 00:02:46,400  
leaving the world a better place so

63  
00:02:49,910 --> 00:02:47,760

leaving it

64

00:02:51,910 --> 00:02:49,920

intact is a is a good benefit that we

65

00:02:54,550 --> 00:02:51,920

can help with also included was an

66

00:02:56,550 --> 00:02:54,560

outing to nearby meteor crater one of

67

00:03:00,390 --> 00:02:56,560

the best preserved meteorite impact

68

00:03:05,110 --> 00:03:02,790

nasa's kepler space telescope has

69

00:03:07,750 --> 00:03:05,120

discovered three super-earth-sized

70

00:03:10,229 --> 00:03:07,760

planets in their star's habitable zones

71

00:03:12,710 --> 00:03:10,239

a region where liquid water might exist

72

00:03:14,630 --> 00:03:12,720

on the planet's surface the smallest of

73

00:03:16,830 --> 00:03:14,640

the three is only forty percent larger

74

00:03:19,430 --> 00:03:16,840

than earth and most likely rocky in

75

00:03:22,869 --> 00:03:19,440

composition two of the planets orbit a

76

00:03:24,470 --> 00:03:22,879

star known as kepler-62 located 360

77

00:03:27,270 --> 00:03:24,480

light years from earth

78

00:03:29,830 --> 00:03:27,280

the other revolves around kepler-69

79

00:03:32,710 --> 00:03:29,840

which is approximately 2 700 light years

80

00:03:34,869 --> 00:03:32,720

away

81

00:03:36,949 --> 00:03:34,879

aboard the international space station a

82

00:03:39,830 --> 00:03:36,959

spacewalk by russian flight engineers

83

00:03:41,910 --> 00:03:39,840

pavel vinogradov and roman romanenko to

84

00:03:44,229 --> 00:03:41,920

deploy and retrieve several science

85

00:03:46,390 --> 00:03:44,239

experiments and install a new

86

00:03:47,270 --> 00:03:46,400

navigational aid on the zvezda service

87

00:03:49,509 --> 00:03:47,280

module

88

00:03:51,270 --> 00:03:49,519

the retro reflector device will provide

89

00:03:53,509 --> 00:03:51,280

docking assistance for the arrival of

90

00:03:56,070 --> 00:03:53,519

the european space agency's albert

91

00:03:59,390 --> 00:03:56,080

einstein automated transfer vehicle for

92

00:04:01,750 --> 00:03:59,400

cargo ship in june the spacewalk the

93

00:04:04,070 --> 00:04:01,760

167th in support of space station

94

00:04:05,910 --> 00:04:04,080

assembly and maintenance is the seventh

95

00:04:09,429 --> 00:04:05,920

for vinogradov and the first for

96

00:04:12,949 --> 00:04:11,030

teams of high school and college

97

00:04:15,670 --> 00:04:12,959

students are geared up for the 20th

98

00:04:18,710 --> 00:04:15,680

annual great moon buggy race april 25th

99

00:04:20,390 --> 00:04:18,720

through 27th at the u.s space and rocket

100

00:04:21,990 --> 00:04:20,400

center in huntsville

101

00:04:24,390 --> 00:04:22,000

hosted by the marshall space flight

102

00:04:26,790 --> 00:04:24,400

center the event encourages young people

103

00:04:29,749 --> 00:04:26,800

to develop and use skills in science

104

00:04:31,909 --> 00:04:29,759

technology engineering and math to build

105

00:04:33,110 --> 00:04:31,919

and race lightweight human-powered

106

00:04:35,110 --> 00:04:33,120

buggies

107

00:04:37,670 --> 00:04:35,120

nasa hopes these students will pursue

108

00:04:42,629 --> 00:04:37,680

careers in stem fields to benefit the

109

00:04:47,670 --> 00:04:44,790

nasa's hubble space telescope celebrated

110

00:04:50,629 --> 00:04:47,680

its 23rd anniversary by once again

111

00:04:52,550 --> 00:04:50,639

focusing on the iconic horsehead nebula

112

00:04:55,030 --> 00:04:52,560

but this time with the infrared eyes of

113

00:04:57,749 --> 00:04:55,040

its wide field camera 3.

114

00:04:59,990 --> 00:04:57,759

imaging the nebula in infrared revealed

115

00:05:00,950 --> 00:05:00,000

features previously hidden by gas and

116

00:05:03,350 --> 00:05:00,960

dust

117

00:05:05,350 --> 00:05:03,360

about 1500 light years away the

118

00:05:07,350 --> 00:05:05,360

horsehead lies in one of the closest and

119

00:05:09,990 --> 00:05:07,360

most commonly photographed regions of

120

00:05:11,990 --> 00:05:10,000

space where stars are actively forming

121

00:05:14,550 --> 00:05:12,000

the image is a preview of the infrared

122

00:05:16,950 --> 00:05:14,560

output expected from hubble's successor

123

00:05:22,629 --> 00:05:16,960

the james webb space telescope set to

124

00:05:27,990 --> 00:05:26,070

12 years ago on april 19th 2001 space

125

00:05:29,310 --> 00:05:28,000

shuttle endeavour launched from kennedy

126

00:05:32,710 --> 00:05:29,320

space center on

127

00:05:34,790 --> 00:05:32,720

sts-100 to deliver canadarm2 to the

128

00:05:37,110 --> 00:05:34,800

international space station

129

00:05:39,590 --> 00:05:37,120

used to lift and move hardware and

130

00:05:42,469 --> 00:05:39,600

spacewalking astronauts the canadian

131

00:05:44,390 --> 00:05:42,479

built robotic arm a longer more capable

132

00:05:46,230 --> 00:05:44,400

version of the shuttle's robot

133

00:05:48,310 --> 00:05:46,240

played a critical role in completing

134

00:05:50,230 --> 00:05:48,320

assembly of the space station

135

00:05:55,749 --> 00:05:50,240

mission also delivered supplies to the

136

00:05:59,909 --> 00:05:58,070

and that's this week at nasa for more on

137

00:06:02,870 --> 00:05:59,919

these and other stories or to follow us