



1  
00:00:11,270 --> 00:00:10,390  
this week at nasa

2  
00:00:13,350 --> 00:00:11,280  
two

3  
00:00:15,749 --> 00:00:13,360  
one

4  
00:00:17,910 --> 00:00:15,759  
booster ignition and liftoff of shuttle

5  
00:00:19,870 --> 00:00:17,920  
endeavour two weeks after their launch

6  
00:00:22,630 --> 00:00:19,880  
aboard space shuttle endeavour the

7  
00:00:24,390 --> 00:00:22,640  
sts-130 crew made a safe return to earth

8  
00:00:28,150 --> 00:00:24,400  
with a smooth landing at the kennedy

9  
00:00:29,910 --> 00:00:28,160  
space center main gear touchdown

10  
00:00:31,109 --> 00:00:29,920  
pilot terry verts deploying the drag

11  
00:00:34,790 --> 00:00:31,119  
chute

12  
00:00:39,830 --> 00:00:37,830  
roger wheel stop endeavor welcome home

13  
00:00:41,910 --> 00:00:39,840

congratulations to you and the crew on

14

00:00:43,670 --> 00:00:41,920

an outstanding mission

15

00:00:45,510 --> 00:00:43,680

installing the tranquility node and

16

00:00:46,549 --> 00:00:45,520

opening up the cupola's windows to the

17

00:00:48,549 --> 00:00:46,559

world

18

00:00:49,830 --> 00:00:48,559

it's great to be home but it was a great

19

00:00:52,830 --> 00:00:49,840

adventure

20

00:00:55,590 --> 00:00:52,840

in the 14 days they spent in space the

21

00:01:01,270 --> 00:00:55,600

sps-130 crew delivered and installed the

22

00:01:05,750 --> 00:01:03,430

the cupola is a robotic control station

23

00:01:07,750 --> 00:01:05,760

with six windows around its sides and

24

00:01:10,149 --> 00:01:07,760

another in the center that provides

25

00:01:13,270 --> 00:01:10,159

station crews with the best view in

26  
00:01:15,510 --> 00:01:13,280  
space a panorama of earth celestial

27  
00:01:17,830 --> 00:01:15,520  
objects and visiting spacecraft

28  
00:01:20,230 --> 00:01:17,840  
until now space station crews have had

29  
00:01:22,149 --> 00:01:20,240  
to peer out relatively small portholes

30  
00:01:24,469 --> 00:01:22,159  
for limited glimpses of what passed

31  
00:01:27,429 --> 00:01:24,479  
below hey i just

32  
00:01:28,710 --> 00:01:27,439  
want to say that sts 130 is mission

33  
00:01:31,590 --> 00:01:28,720  
complete

34  
00:01:33,270 --> 00:01:31,600  
we're safe on deck here in

35  
00:01:35,030 --> 00:01:33,280  
kennedy space center

36  
00:01:37,429 --> 00:01:35,040  
and that's due to the work of a lot of

37  
00:01:39,990 --> 00:01:37,439  
people we had a great team

38  
00:01:43,590 --> 00:01:40,000

we had tremendous hardware to bring up

39

00:01:45,670 --> 00:01:43,600

note 3 was pristine cupola was beautiful

40

00:01:48,469 --> 00:01:45,680

both in design and care

41

00:01:50,069 --> 00:01:48,479

before we left and endeavor my goodness

42

00:01:52,469 --> 00:01:50,079

what a what a machine

43

00:01:53,590 --> 00:01:52,479

she was she was perfect throughout the

44

00:01:55,590 --> 00:01:53,600

flight and

45

00:01:59,429 --> 00:01:55,600

we brought her back safe and sound due

46

00:02:01,670 --> 00:01:59,439

to a great mission control team as well

47

00:02:04,389 --> 00:02:01,680

hey guys a phone call from president

48

00:02:06,310 --> 00:02:04,399

obama was a mission milestone the

49

00:02:09,270 --> 00:02:06,320

president spoke from the roosevelt room

50

00:02:12,630 --> 00:02:09,280

of the white house with both the sts-130

51  
00:02:14,309 --> 00:02:12,640  
and expedition 22 crews aboard the iss i

52  
00:02:15,830 --> 00:02:14,319  
think i speak for all the young people

53  
00:02:17,350 --> 00:02:15,840  
here

54  
00:02:19,190 --> 00:02:17,360  
everybody back home

55  
00:02:22,229 --> 00:02:19,200  
how proud we are of you

56  
00:02:24,790 --> 00:02:22,239  
how excited we are about the work that's

57  
00:02:28,390 --> 00:02:24,800  
being done on the space station

58  
00:02:31,030 --> 00:02:28,400  
and how committed we are to continuing

59  
00:02:32,949 --> 00:02:31,040  
human space exploration

60  
00:02:34,790 --> 00:02:32,959  
in the future the president discussed

61  
00:02:37,110 --> 00:02:34,800  
their missions with commanders george

62  
00:02:38,869 --> 00:02:37,120  
zamka and jeff williams and their

63  
00:02:40,869 --> 00:02:38,879

respective shuttle and station crew

64

00:02:43,430 --> 00:02:40,879

members well thank you very much mr

65

00:02:45,910 --> 00:02:43,440

president it is a large team effort in

66

00:02:48,470 --> 00:02:45,920

front of you you have the uh

67

00:02:50,150 --> 00:02:48,480

the joint crew of endeavor and in the

68

00:02:52,550 --> 00:02:50,160

space station and we are the ones that

69

00:02:54,790 --> 00:02:52,560

are fortunate enough to be able to uh

70

00:02:57,190 --> 00:02:54,800

accomplish this great mission together

71

00:02:58,869 --> 00:02:57,200

uh in space but there are many thousands

72

00:03:01,110 --> 00:02:58,879

of people around the world that get gave

73

00:03:02,949 --> 00:03:01,120

the best of themselves uh over many

74

00:03:05,270 --> 00:03:02,959

years in order to to have the days that

75

00:03:07,830 --> 00:03:05,280

we've been having up here mr obama noted

76

00:03:10,149 --> 00:03:07,840

the iss's new era of discovery and

77

00:03:12,070 --> 00:03:10,159

innovation that'll foster scientific

78

00:03:13,830 --> 00:03:12,080

breakthroughs through advances in space

79

00:03:16,229 --> 00:03:13,840

research conducted in the station's

80

00:03:18,309 --> 00:03:16,239

laboratories when we do

81

00:03:20,309 --> 00:03:18,319

cellular research for even like for

82

00:03:22,229 --> 00:03:20,319

cancer research for instance

83

00:03:23,990 --> 00:03:22,239

on earth the cells actually collapse

84

00:03:25,110 --> 00:03:24,000

under their own weight and so it their

85

00:03:27,110 --> 00:03:25,120

growth on earth are a little bit

86

00:03:30,229 --> 00:03:27,120

distorted here without the gravity

87

00:03:31,830 --> 00:03:30,239

effect we can grow cells very purely and

88

00:03:33,750 --> 00:03:31,840

understand that the mechanisms by which

89

00:03:35,350 --> 00:03:33,760

that they are replicating the president

90

00:03:37,910 --> 00:03:35,360

also took special interest in the

91

00:03:40,630 --> 00:03:37,920

station's new cupola that in addition to

92

00:03:42,229 --> 00:03:40,640

its great views we'll host a robotics

93

00:03:44,309 --> 00:03:42,239

workstation the

94

00:03:46,710 --> 00:03:44,319

amazing work that's being done on the

95

00:03:47,670 --> 00:03:46,720

international space station

96

00:03:48,949 --> 00:03:47,680

be

97

00:03:50,630 --> 00:03:48,959

not only

98

00:03:53,350 --> 00:03:50,640

by our american

99

00:03:55,350 --> 00:03:53,360

astronauts but also uh our colleagues

100

00:03:58,550 --> 00:03:55,360

from japan and russia

101  
00:04:00,710 --> 00:03:58,560  
is just a testimony to

102  
00:04:03,270 --> 00:04:00,720  
human ingenuity

103  
00:04:04,309 --> 00:04:03,280  
a testimony to extraordinary

104  
00:04:06,949 --> 00:04:04,319  
skill

105  
00:04:11,270 --> 00:04:06,959  
and courage that you guys bring to bear

106  
00:04:13,190 --> 00:04:11,280  
and uh it's also a testimony to why

107  
00:04:15,030 --> 00:04:13,200  
continued space exploration is so

108  
00:04:16,710 --> 00:04:15,040  
important and

109  
00:04:17,509 --> 00:04:16,720  
is part of the reason why

110  
00:04:19,270 --> 00:04:17,519  
my

111  
00:04:21,349 --> 00:04:19,280  
commitment to nasa

112  
00:04:23,830 --> 00:04:21,359  
is unwavering middle school students

113  
00:04:25,830 --> 00:04:23,840

from michigan florida north carolina and

114

00:04:27,909 --> 00:04:25,840

nebraska who were in washington for an

115

00:04:30,390 --> 00:04:27,919

engineering competition and several

116

00:04:33,030 --> 00:04:30,400

dignitaries joined president obama to

117

00:04:38,790 --> 00:04:33,040

ask questions of the orbiting astronauts

118

00:04:42,950 --> 00:04:40,790

um what are some of the benefits of

119

00:04:45,350 --> 00:04:42,960

exploring space as opposed to exploring

120

00:04:48,150 --> 00:04:45,360

other places on earth learning about how

121

00:04:50,870 --> 00:04:48,160

we ourselves work and how we can handle

122

00:04:53,110 --> 00:04:50,880

changes if we go somewhere

123

00:04:54,870 --> 00:04:53,120

very different than what we use used to

124

00:04:56,790 --> 00:04:54,880

is something that's valuable also on

125

00:04:59,189 --> 00:04:56,800

earth because our environment changes on

126

00:05:01,430 --> 00:04:59,199

earth too and in terms of

127

00:05:03,270 --> 00:05:01,440

health and medicine we understand better

128

00:05:05,510 --> 00:05:03,280

how our own bodies work so there's a lot

129

00:05:07,189 --> 00:05:05,520

to be learned this was the second call

130

00:05:09,350 --> 00:05:07,199

president obama has made to the

131

00:05:12,390 --> 00:05:09,360

international space station he spoke

132

00:05:18,310 --> 00:05:12,400

with the crews of sts-119 and expedition

133

00:05:23,430 --> 00:05:20,710

new findings by nasa's chandra x-ray

134

00:05:25,350 --> 00:05:23,440

observatory in the andromeda galaxy have

135

00:05:27,270 --> 00:05:25,360

provided a major advance in

136

00:05:29,510 --> 00:05:27,280

understanding a type of supernova

137

00:05:30,550 --> 00:05:29,520

believed critical to studying dark

138

00:05:32,550 --> 00:05:30,560

energy

139

00:05:35,830 --> 00:05:32,560

a zoom into this composite image of

140

00:05:37,990 --> 00:05:35,840

andromeda also known as m31 shows

141

00:05:40,790 --> 00:05:38,000

astronomers that the merger of what's

142

00:05:45,110 --> 00:05:40,800

left of two dense stars is the likely

143

00:05:47,350 --> 00:05:45,120

cause of many type ia supernovas type ia

144

00:05:49,909 --> 00:05:47,360

supernovas have been used to measure the

145

00:05:51,909 --> 00:05:49,919

accelerated expansion of the universe

146

00:05:53,909 --> 00:05:51,919

astronomers believe that expansion is

147

00:05:56,390 --> 00:05:53,919

being caused by the dark energy they

148

00:06:01,510 --> 00:05:56,400

think pervades the universe and about

149

00:06:05,350 --> 00:06:03,110

the telescope aboard nasa's

150

00:06:08,469 --> 00:06:05,360

stratospheric observatory for infrared

151  
00:06:11,189 --> 00:06:08,479  
astronomy or sophia was successfully

152  
00:06:13,110 --> 00:06:11,199  
activated during a january 15th test

153  
00:06:14,950 --> 00:06:13,120  
flight of almost six hours

154  
00:06:17,670 --> 00:06:14,960  
engineers examined the telescope's

155  
00:06:19,670 --> 00:06:17,680  
movement and stability to verify that it

156  
00:06:20,390 --> 00:06:19,680  
could remain locked in on a celestial

157  
00:06:22,870 --> 00:06:20,400  
object

158  
00:06:24,950 --> 00:06:22,880  
while the aircraft maneuvers in flight

159  
00:06:27,350 --> 00:06:24,960  
this successful dry run comes after the

160  
00:06:29,029 --> 00:06:27,360  
telescope's large cavity external door

161  
00:06:30,150 --> 00:06:29,039  
was opened during two test flights in

162  
00:06:31,990 --> 00:06:30,160  
december

163  
00:06:34,629 --> 00:06:32,000

these developments paved the way for

164

00:06:37,830 --> 00:06:34,639

sophia to begin astronomy missions as

165

00:06:40,309 --> 00:06:37,840

early as the spring

166

00:06:42,710 --> 00:06:40,319

a new nasa website can help our future

167

00:06:45,110 --> 00:06:42,720

explorers and leaders better understand

168

00:06:47,430 --> 00:06:45,120

the hows and whys of climate change and

169

00:06:48,710 --> 00:06:47,440

what they can do to make our planet more

170

00:06:51,350 --> 00:06:48,720

habitable

171

00:06:52,950 --> 00:06:51,360

called climate kids the new website is

172

00:06:55,189 --> 00:06:52,960

the latest companion to nasa's

173

00:06:56,309 --> 00:06:55,199

award-winning global climate change

174

00:06:58,150 --> 00:06:56,319

website

175

00:07:00,629 --> 00:06:58,160

new techniques aimed at students in

176  
00:07:03,510 --> 00:07:00,639  
grades four through six the multimedia

177  
00:07:05,830 --> 00:07:03,520  
rich site uses age-appropriate language

178  
00:07:07,589 --> 00:07:05,840  
games and humorous illustrations and

179  
00:07:09,589 --> 00:07:07,599  
animations to help break down and

180  
00:07:12,070 --> 00:07:09,599  
understand an important topic most

181  
00:07:14,469 --> 00:07:12,080  
adults find difficult to grasp kind of

182  
00:07:16,469 --> 00:07:14,479  
foreign

183  
00:07:18,710 --> 00:07:16,479  
you don't say look my habitat is

184  
00:07:20,469 --> 00:07:18,720  
shrinking and i obviously fell asleep on

185  
00:07:24,390 --> 00:07:20,479  
the wrong ice what did you say climate

186  
00:07:27,510 --> 00:07:24,400  
kits can be found at <http://double>

187  
00:07:33,510 --> 00:07:27,520  
slash [climate.nasa.gov](http://climate.nasa.gov)

188  
00:07:38,870 --> 00:07:36,469

48 years ago mercury astronaut john

189

00:07:40,790 --> 00:07:38,880

glenn became the first american to orbit

190

00:07:42,550 --> 00:07:40,800

the earth when an atlas rocket

191

00:07:46,710 --> 00:07:42,560

successfully carried his friendship

192

00:07:51,830 --> 00:07:49,189

glenn completed three orbits to usher in

193

00:07:54,550 --> 00:07:51,840

a new era of space travel oh that view

194

00:07:57,749 --> 00:07:54,560

is tremendous that eventually led to

195

00:08:00,309 --> 00:07:57,759

apollo astronauts walking on the moon

196

00:08:02,390 --> 00:08:00,319

and that's this week at nasa for more on