



1
00:00:12,470 --> 00:00:09,990
this week at nasa

2
00:00:14,870 --> 00:00:12,480
it's extraordinary opportunity to

3
00:00:16,870 --> 00:00:14,880
converse with you during your mission

4
00:00:19,590 --> 00:00:16,880
and especially grateful to be able to

5
00:00:21,269 --> 00:00:19,600
speak to so many of you as both crews

6
00:00:23,590 --> 00:00:21,279
are present on the space situation of

7
00:00:24,630 --> 00:00:23,600
this time in a history-making event from

8
00:00:27,029 --> 00:00:24,640
the vatican

9
00:00:30,390 --> 00:00:27,039
pope benedict xvi spoke with the

10
00:00:31,269 --> 00:00:30,400
expedition 27 and sts-130

11
00:00:33,030 --> 00:00:31,279
crew

12
00:00:35,350 --> 00:00:33,040
working on orbit aboard the

13
00:00:37,590 --> 00:00:35,360

international space station from your

14

00:00:40,069 --> 00:00:37,600

extraordinary observation point

15

00:00:42,470 --> 00:00:40,079

how to use this situation on earth do

16

00:00:44,470 --> 00:00:42,480

you see science or phenomena to which we

17

00:00:46,229 --> 00:00:44,480

need to be more attentive well your

18

00:00:47,270 --> 00:00:46,239

holiness it's a it's a great honor to

19

00:00:49,590 --> 00:00:47,280

speak with you and you're right it

20

00:00:50,950 --> 00:00:49,600

really is an extraordinary vantage point

21

00:00:53,189 --> 00:00:50,960

we have up here

22

00:00:55,110 --> 00:00:53,199

on the one hand we could see how

23

00:00:56,790 --> 00:00:55,120

indescribably beautiful the planet that

24

00:00:59,349 --> 00:00:56,800

we have been given is but on the other

25

00:01:01,590 --> 00:00:59,359

hand we can really clearly see how

26

00:01:04,070 --> 00:01:01,600

fragile it is the pope chatted in

27

00:01:06,550 --> 00:01:04,080

particular with the two european space

28

00:01:09,429 --> 00:01:06,560

agency astronauts from italy roberto

29

00:01:13,350 --> 00:01:09,439

vittori and paolo nesbitt whose mother

30

00:01:17,350 --> 00:01:15,190

holy father

31

00:01:20,230 --> 00:01:17,360

i felt your prayers and everyone's

32

00:01:23,429 --> 00:01:20,240

prayers arriving up here

33

00:01:25,030 --> 00:01:23,439

we're outside the world we orbit

34

00:01:26,870 --> 00:01:25,040

outside the earth

35

00:01:28,789 --> 00:01:26,880

and we have a vantage point to look at

36

00:01:29,590 --> 00:01:28,799

the earth and we feel everything around

37

00:01:31,990 --> 00:01:29,600

us

38

00:01:39,109 --> 00:01:32,000

pope benedict's call was the first by a

39

00:01:43,830 --> 00:01:41,830

less than three days later the soyuz

40

00:01:46,389 --> 00:01:43,840

capsule carrying the last three members

41

00:01:48,389 --> 00:01:46,399

of the expedition 27 team made a

42

00:01:51,429 --> 00:01:48,399

picture-perfect landing on the step of

43

00:01:54,149 --> 00:01:51,439

kazakhstan dimitri kondratya katie

44

00:01:56,149 --> 00:01:54,159

coleman and nespoli returned to earth

45

00:01:58,789 --> 00:01:56,159

and sunny skies and 70 degree

46

00:02:03,030 --> 00:01:58,799

temperatures after more than five months

47

00:02:07,670 --> 00:02:04,950

having arrived at the complex last

48

00:02:09,910 --> 00:02:07,680

december 17th the trio worked on more

49

00:02:12,309 --> 00:02:09,920

than 100 experiments involving

50

00:02:15,030 --> 00:02:12,319

researchers from around the globe as

51
00:02:17,350 --> 00:02:15,040
well as juggled space for supplies and

52
00:02:19,030 --> 00:02:17,360
equipment uploaded on the final shuttle

53
00:02:21,350 --> 00:02:19,040
missions

54
00:02:23,910 --> 00:02:21,360
with their departure the three remaining

55
00:02:26,869 --> 00:02:23,920
station residents andre barasanka

56
00:02:29,910 --> 00:02:26,879
alexander samakotiev and ron garan

57
00:02:31,990 --> 00:02:29,920
became members of expedition 28 they're

58
00:02:34,949 --> 00:02:32,000
scheduled to be joined by three new

59
00:02:38,150 --> 00:02:34,959
crewmates on june 9 cosmonaut sergei

60
00:02:42,869 --> 00:02:38,160
volkov nasa astronaut mike fossum and

61
00:02:47,270 --> 00:02:45,190
meanwhile the six crew members of space

62
00:02:49,910 --> 00:02:47,280
shuttle endeavour continued with their

63
00:02:52,150 --> 00:02:49,920

16-day mission and a good work yourself

64

00:02:56,470 --> 00:02:52,160

today congratulations on

65

00:03:01,190 --> 00:02:58,790

mission specialists mike fink and greg

66

00:03:03,430 --> 00:03:01,200

shamatoff successfully completed the

67

00:03:05,589 --> 00:03:03,440

last of four spacewalks planned for

68

00:03:08,070 --> 00:03:05,599

sts-134

69

00:03:10,710 --> 00:03:08,080

the mission's primary payload the alpha

70

00:03:13,110 --> 00:03:10,720

magnetic spectrometer has been installed

71

00:03:14,790 --> 00:03:13,120

outside the station and is collecting

72

00:03:18,070 --> 00:03:14,800

and returning data

73

00:03:20,149 --> 00:03:18,080

the ams a cosmic particles detector may

74

00:03:30,390 --> 00:03:20,159

help scientists better understand

75

00:03:34,789 --> 00:03:32,470

miami-dade police department director

76
00:03:37,670 --> 00:03:34,799
james loftus presented kennedy space

77
00:03:40,149 --> 00:03:37,680
center director bob cabana with the u.s

78
00:03:42,470 --> 00:03:40,159
honor flight at a special ceremony at

79
00:03:44,789 --> 00:03:42,480
the ksc visitor complex

80
00:03:47,190 --> 00:03:44,799
the flag will be prepared to fly aboard

81
00:03:49,910 --> 00:03:47,200
shuttle atlantis on its final mission in

82
00:03:51,589 --> 00:03:49,920
july i think it's a real privilege for

83
00:03:52,229 --> 00:03:51,599
us to be able to take it aboard atlantis

84
00:03:54,390 --> 00:03:52,239
and

85
00:03:56,229 --> 00:03:54,400
bring it home safe it says a lot the u.s

86
00:03:58,309 --> 00:03:56,239
honor flag has traveled throughout the

87
00:04:01,030 --> 00:03:58,319
world honoring police officers

88
00:04:03,670 --> 00:04:01,040

firefighters members of the armed forces

89

00:04:05,350 --> 00:04:03,680

astronauts and other heroes who lost

90

00:04:09,030 --> 00:04:05,360

their lives while serving their

91

00:04:12,869 --> 00:04:11,270

nasa administrator charles bolden

92

00:04:15,429 --> 00:04:12,879

welcome to nasa headquarters in

93

00:04:17,430 --> 00:04:15,439

washington the 85 winners of the

94

00:04:19,909 --> 00:04:17,440

presidential award for excellence in

95

00:04:22,230 --> 00:04:19,919

mathematics and science teaching

96

00:04:24,310 --> 00:04:22,240

the award recognizes teachers at the

97

00:04:26,150 --> 00:04:24,320

kindergarten to sixth grade level i want

98

00:04:28,310 --> 00:04:26,160

to congratulate all of you on the

99

00:04:30,469 --> 00:04:28,320

exceptional achievement and and your

100

00:04:32,710 --> 00:04:30,479

recognition on the part of the president

101
00:04:35,189 --> 00:04:32,720
president obama's educate to innovate

102
00:04:37,270 --> 00:04:35,199
campaign aims to strengthen the nation's

103
00:04:39,110 --> 00:04:37,280
teaching of science technology

104
00:04:41,830 --> 00:04:39,120
engineering and math the stem

105
00:04:43,590 --> 00:04:41,840
disciplines by preparing 10 000

106
00:04:47,430 --> 00:04:43,600
effective science and mathematics

107
00:04:51,430 --> 00:04:49,350
the administrator delivered the keynote

108
00:04:53,990 --> 00:04:51,440
speech at southern university spring

109
00:04:56,550 --> 00:04:54,000
commencement speaking to an audience of

110
00:04:59,189 --> 00:04:56,560
thousands bolden told graduates that

111
00:05:01,430 --> 00:04:59,199
challenges in their future will present

112
00:05:02,310 --> 00:05:01,440
big opportunities for them to do great

113
00:05:04,629 --> 00:05:02,320

things

114

00:05:06,950 --> 00:05:04,639

he congratulated southern university as

115

00:05:09,350 --> 00:05:06,960

one of the top 10 producers of african

116

00:05:11,110 --> 00:05:09,360

americans with undergraduate degrees in

117

00:05:13,350 --> 00:05:11,120

engineering and nursing

118

00:05:15,350 --> 00:05:13,360

and encouraged graduates to consider

119

00:05:18,790 --> 00:05:15,360

careers with nasa i hope you're

120

00:05:20,629 --> 00:05:18,800

optimistic about the future because i am

121

00:05:21,909 --> 00:05:20,639

it's been my observation that students

122

00:05:23,430 --> 00:05:21,919

who are just starting their college

123

00:05:24,870 --> 00:05:23,440

careers or

124

00:05:28,870 --> 00:05:24,880

wrapping them up

125

00:05:30,150 --> 00:05:28,880

right now are excited about the future

126

00:05:33,830 --> 00:05:30,160

i am

127

00:05:35,670 --> 00:05:33,840

hoping i'm right about all of you

128

00:05:40,150 --> 00:05:35,680

that's a question

129

00:05:45,350 --> 00:05:42,790

located in baton rouge louisiana

130

00:05:47,670 --> 00:05:45,360

southern university and a m college is a

131

00:05:49,350 --> 00:05:47,680

historically black institution created

132

00:05:51,590 --> 00:05:49,360

in 1890

133

00:05:53,909 --> 00:05:51,600

its goal is to provide students with a

134

00:05:56,469 --> 00:05:53,919

high quality global educational

135

00:05:58,629 --> 00:05:56,479

experience to engage in scholarly

136

00:06:00,790 --> 00:05:58,639

research and creative activities

137

00:06:03,749 --> 00:06:00,800

and to give meaningful public service to

138

00:06:06,790 --> 00:06:03,759

the community the state the nation and

139

00:06:10,790 --> 00:06:06,800

the world

140

00:06:14,550 --> 00:06:13,350

the gates have just opened people are

141

00:06:17,029 --> 00:06:14,560

filing in

142

00:06:20,790 --> 00:06:17,039

the jpl open house is a time-honored

143

00:06:24,230 --> 00:06:20,800

tradition once a year one weekend in may

144

00:06:26,150 --> 00:06:24,240

the lab throws open its gates and people

145

00:06:28,230 --> 00:06:26,160

come we have tried lots of different

146

00:06:30,309 --> 00:06:28,240

mobility systems we tried four wheels

147

00:06:32,710 --> 00:06:30,319

six wheels eight wheels more than thirty

148

00:06:34,469 --> 00:06:32,720

eight thousand people stopped by over

149

00:06:37,430 --> 00:06:34,479

two days

150

00:06:39,510 --> 00:06:37,440

not including an additional 27 000 who

151
00:06:42,950 --> 00:06:39,520
viewed the open house remotely via

152
00:06:45,510 --> 00:06:42,960
ustream tv i'm gay ye hell next to me

153
00:06:47,830 --> 00:06:45,520
here is christopher harris and had their

154
00:06:50,469 --> 00:06:47,840
chat questions answered by a real nasa

155
00:06:53,029 --> 00:06:50,479
scientist or engineer athlete has rubber

156
00:06:55,430 --> 00:06:53,039
wheels because it's just a prototype

157
00:06:57,990 --> 00:06:55,440
folks got to see a real mars rover

158
00:07:00,629 --> 00:06:58,000
curiosity before it's packed up and

159
00:07:03,029 --> 00:07:00,639
headed for mars in november is it bigger

160
00:07:04,070 --> 00:07:03,039
than you thought i thought it would be

161
00:07:05,670 --> 00:07:04,080
like

162
00:07:07,510 --> 00:07:05,680
6.8

163
00:07:09,350 --> 00:07:07,520

feet

164

00:07:12,309 --> 00:07:09,360

they felt what it was like to be run

165

00:07:15,909 --> 00:07:12,319

over by a rover

166

00:07:17,909 --> 00:07:15,919

and drive a robot with their own hands

167

00:07:21,029 --> 00:07:17,919

for two days people shared the

168

00:07:23,670 --> 00:07:21,039

excitement of exploration as some folks

169

00:07:24,950 --> 00:07:23,680

put it jbl's open house is a lot like

170

00:07:28,070 --> 00:07:24,960

disneyland

171

00:07:38,790 --> 00:07:28,080

only this isn't fantasy land it's

172

00:07:43,029 --> 00:07:40,469

the john f kennedy center for the

173

00:07:45,589 --> 00:07:43,039

performing arts in washington hosted a

174

00:07:47,749 --> 00:07:45,599

special concert honoring its namesake

175

00:07:52,150 --> 00:07:47,759

and american achievements in space

176
00:07:56,550 --> 00:07:54,869
human space flight the kennedy legacy

177
00:07:58,950 --> 00:07:56,560
featured a series of selections

178
00:08:07,990 --> 00:07:58,960
performed by the space philharmonic

179
00:08:12,309 --> 00:08:10,469
the musical celebration came on the 50th

180
00:08:13,830 --> 00:08:12,319
anniversary of president kennedy's

181
00:08:15,990 --> 00:08:13,840
speech to congress

182
00:08:17,909 --> 00:08:16,000
in which he challenged the united states

183
00:08:18,869 --> 00:08:17,919
i believe that this nation should commit

184
00:08:20,790 --> 00:08:18,879
itself

185
00:08:22,869 --> 00:08:20,800
to achieving the goal

186
00:08:24,550 --> 00:08:22,879
before this decade is out

187
00:08:28,790 --> 00:08:24,560
of landing a man on the moon and

188
00:08:32,790 --> 00:08:30,869

since those words were spoken nasa has

189

00:08:35,350 --> 00:08:32,800

taken my brother's charge

190

00:08:37,350 --> 00:08:35,360

and created a future that even he

191

00:08:39,430 --> 00:08:37,360

probably could not have dreamt up nasa

192

00:08:41,750 --> 00:08:39,440

administrator charles bolden was joined

193

00:08:42,709 --> 00:08:41,760

on stage by deputy administrator lori

194

00:08:45,590 --> 00:08:42,719

garver

195

00:08:47,910 --> 00:08:45,600

astronauts and other special guests that

196

00:08:51,350 --> 00:08:47,920

included former star trek star nichelle

197

00:08:53,430 --> 00:08:51,360

nichols june lockhart of lost in space

198

00:08:55,670 --> 00:08:53,440

and grammy-winning recording artist

199

00:08:57,750 --> 00:08:55,680

herbie hancock who performed a piece

200

00:09:07,269 --> 00:08:57,760

about witnessing february's launch of

201
00:09:12,389 --> 00:09:09,430
also performing were several local high

202
00:09:17,350 --> 00:09:12,399
school musical groups and the soldiers

203
00:09:23,190 --> 00:09:20,150
to conclude the orchestra was led by

204
00:09:28,150 --> 00:09:23,200
teddy kennedy iii in stars and stripes

205
00:09:34,870 --> 00:09:32,310
40 years ago on may 30th 1971

206
00:09:37,350 --> 00:09:34,880
mariner 9 was launched toward mars from

207
00:09:39,670 --> 00:09:37,360
cape canaveral air force station

208
00:09:42,389 --> 00:09:39,680
mariner reached mars in november of that

209
00:09:45,030 --> 00:09:42,399
same year becoming the first spacecraft

210
00:09:47,829 --> 00:09:45,040
to orbit another planet and sending back

211
00:09:50,710 --> 00:09:47,839
clear pictures of the martian surface

212
00:09:53,590 --> 00:09:50,720
the images revealed riverbeds craters

213
00:09:57,750 --> 00:09:53,600

volcanoes evidence of wind and water

214

00:10:00,630 --> 00:09:57,760

erosion weather fronts fogs and more

215

00:10:02,949 --> 00:10:00,640

mars's tiny moons phobos and deimos were

216

00:10:05,750 --> 00:10:02,959

also photographed the findings from the

217

00:10:09,910 --> 00:10:05,760

mariner 9 missions served as foundation

218

00:10:16,069 --> 00:10:13,910

twelve years ago on may 29 1999

219

00:10:17,750 --> 00:10:16,079

discovery made the first space shuttle

220

00:10:19,550 --> 00:10:17,760

docking to the international space

221

00:10:23,790 --> 00:10:19,560

station during mission

222

00:10:27,829 --> 00:10:23,800

sts-96 the second flight to the complex

223

00:10:29,829 --> 00:10:27,839

sts-96 launched to the iss on may 27th

224

00:10:32,790 --> 00:10:29,839

carrying crew members commander kent

225

00:10:35,990 --> 00:10:32,800

rominger pilot rick husband admissions

226

00:10:39,030 --> 00:10:36,000

specialist ellen ochoa tamara jernigan

227

00:10:43,750 --> 00:10:39,040

daniel barry julie payette and valerie

228

00:10:46,230 --> 00:10:43,760

tocarav and 3 567 pounds of material

229

00:10:48,389 --> 00:10:46,240

including clothing sleeping bags spare

230

00:10:52,790 --> 00:10:48,399

parts medical equipment supplies

231

00:10:55,190 --> 00:10:52,800

hardware and about 84 gallons of water

232

00:10:57,509 --> 00:10:55,200

and that's this week at nasa