



WEBB on the Harbor

1
00:00:06,879 --> 00:00:10,549
this week at nasa

2
00:00:13,910 --> 00:00:11,509
three

3
00:00:17,590 --> 00:00:13,920
two main engine start one

4
00:00:20,710 --> 00:00:17,600
zero and liftoff of the delta ii with

5
00:00:23,029 --> 00:00:20,720
the npp satellite blazing the way a new

6
00:00:25,029 --> 00:00:23,039
technology for climate research and

7
00:00:27,349 --> 00:00:25,039
weather forecasting all the systems look

8
00:00:29,029 --> 00:00:27,359
strong communications look strong the

9
00:00:31,750 --> 00:00:29,039
nation's newest earth observing

10
00:00:34,069 --> 00:00:31,760
satellite has begun its mission

11
00:00:35,910 --> 00:00:34,079
the national polar orbiting operational

12
00:00:39,590 --> 00:00:35,920
environmental satellite system

13
00:00:41,430 --> 00:00:39,600

preparatory project or npp was launched

14

00:00:44,310 --> 00:00:41,440

from vanderberg air force base in

15

00:00:46,069 --> 00:00:44,320

california heralding a new era of

16

00:00:48,790 --> 00:00:46,079

climate change science and weather

17

00:00:50,150 --> 00:00:48,800

forecasting for the united states i know

18

00:00:52,150 --> 00:00:50,160

we're going to have thousands of users

19

00:00:53,350 --> 00:00:52,160

around the world who are anxiously

20

00:00:55,510 --> 00:00:53,360

waiting to

21

00:00:57,750 --> 00:00:55,520

use npp data for

22

00:01:00,630 --> 00:00:57,760

more applications than i can even think

23

00:01:02,630 --> 00:01:00,640

of data from npp will enable the

24

00:01:04,869 --> 00:01:02,640

national oceanic and atmospheric

25

00:01:07,270 --> 00:01:04,879

administration to continue issuing

26
00:01:10,789 --> 00:01:07,280
accurate forecasts and provide advanced

27
00:01:13,510 --> 00:01:10,799
warning for severe weather npp will also

28
00:01:15,510 --> 00:01:13,520
extend critical long-term data sets that

29
00:01:18,390 --> 00:01:15,520
advance earth system science and

30
00:01:20,630 --> 00:01:18,400
applications supported by nasa noaa and

31
00:01:22,469 --> 00:01:20,640
other u.s agencies this mission in

32
00:01:24,870 --> 00:01:22,479
particular has been planned for several

33
00:01:27,030 --> 00:01:24,880
years it evolved over time to include

34
00:01:29,109 --> 00:01:27,040
our partners noaa so we're looking not

35
00:01:30,710 --> 00:01:29,119
only at weather but at climate and

36
00:01:32,789 --> 00:01:30,720
better modeling what's happening with

37
00:01:36,230 --> 00:01:32,799
our planet so i think all of this is

38
00:01:37,830 --> 00:01:36,240

just showing the robust nature of nasa

39

00:01:40,390 --> 00:01:37,840

the mission will also test key

40

00:01:42,710 --> 00:01:40,400

technologies and instruments for use on

41

00:01:48,870 --> 00:01:42,720

the two joint polar satellite system

42

00:01:54,550 --> 00:01:51,830

expedition 29 soyuz commander anton

43

00:01:56,630 --> 00:01:54,560

scotleroff nasa flight engineer dan

44

00:01:59,429 --> 00:01:56,640

burbank and russian flight engineer

45

00:02:01,590 --> 00:01:59,439

anatoly ivanishin were in moscow's red

46

00:02:03,910 --> 00:02:01,600

square to participate in traditional

47

00:02:05,429 --> 00:02:03,920

ceremonies prior to their november

48

00:02:06,469 --> 00:02:05,439

flight to the international space

49

00:02:08,710 --> 00:02:06,479

station

50

00:02:10,949 --> 00:02:08,720

the trio laid flowers at the kremlin

51
00:02:15,510 --> 00:02:10,959
wall in tribute to iconic russian

52
00:02:18,309 --> 00:02:16,869
what are the similarities and the

53
00:02:20,790 --> 00:02:18,319
differences between the shadow and the

54
00:02:23,750 --> 00:02:20,800
soyuz the to me that the soyuz is like a

55
00:02:26,550 --> 00:02:23,760
sports car where the shuttle is like a

56
00:02:28,869 --> 00:02:26,560
an 18 wheeler and i'm very much looking

57
00:02:31,589 --> 00:02:28,879
forward to the ride uphill that event

58
00:02:33,990 --> 00:02:31,599
followed a media q a outside the crew's

59
00:02:36,150 --> 00:02:34,000
training base at the gagarin cosmonaut

60
00:02:39,350 --> 00:02:36,160
training center in star city outside

61
00:02:40,630 --> 00:02:39,360
moscow skoplarov burbank and ivanishin

62
00:02:43,589 --> 00:02:40,640
are scheduled to launch from the

63
00:02:46,470 --> 00:02:43,599

baikonur cosmodrome to the iss aboard

64

00:02:56,070 --> 00:02:46,480

the soyuz tma-22 spacecraft on november

65

00:03:00,869 --> 00:02:58,309

the latest in a series of tests of the

66

00:03:02,869 --> 00:03:00,879

orion spacecraft saw an eighteen

67

00:03:04,550 --> 00:03:02,879

thousand pound model of the vehicle

68

00:03:11,030 --> 00:03:04,560

dropped into the langley research

69

00:03:16,070 --> 00:03:13,350

testing began this summer to certify the

70

00:03:18,790 --> 00:03:16,080

orion spacecraft for water landings the

71

00:03:21,270 --> 00:03:18,800

vehicle will carry astronauts into space

72

00:03:23,670 --> 00:03:21,280

providing emergency abort capability

73

00:03:28,149 --> 00:03:23,680

sustaining the crew during space travel

74

00:03:32,550 --> 00:03:29,990

this new and improved digital

75

00:03:35,190 --> 00:03:32,560

topographic map of earth is the most

76

00:03:37,430 --> 00:03:35,200

complete version ever produced

77

00:03:39,670 --> 00:03:37,440

known as the global digital elevation

78

00:03:41,830 --> 00:03:39,680

model it was created from images

79

00:03:43,509 --> 00:03:41,840

collected by the japanese advanced

80

00:03:46,869 --> 00:03:43,519

spaceborne thermal emission and

81

00:03:49,030 --> 00:03:46,879

reflection radiometer or aster it's one

82

00:03:51,750 --> 00:03:49,040

of five instruments on nasa's terra

83

00:03:54,229 --> 00:03:51,760

satellite launched in 1999.

84

00:03:57,030 --> 00:03:54,239

enhanced features include improved

85

00:03:59,910 --> 00:03:57,040

spatial resolution increased horizontal

86

00:04:02,550 --> 00:03:59,920

and vertical accuracy and more realistic

87

00:04:04,949 --> 00:04:02,560

coverage over bodies of water the new

88

00:04:07,350 --> 00:04:04,959

version of the map provides civilian

89

00:04:09,830 --> 00:04:07,360

users with the highest resolution global

90

00:04:12,630 --> 00:04:09,840

topography data available and is

91

00:04:15,110 --> 00:04:12,640

available online to users everywhere at

92

00:04:16,870 --> 00:04:15,120

no cost

93

00:04:19,349 --> 00:04:16,880

here in maryland

94

00:04:21,349 --> 00:04:19,359

both at the space telescope institute

95

00:04:24,070 --> 00:04:21,359

and goddard we have

96

00:04:26,550 --> 00:04:24,080

three nobel prize winners the greatest

97

00:04:29,350 --> 00:04:26,560

telescope called the hubble since

98

00:04:31,830 --> 00:04:29,360

galileo invented the first one and we

99

00:04:39,350 --> 00:04:31,840

know that great people and a great

100

00:04:43,110 --> 00:04:41,189

at the maryland science center in

101
00:04:45,110 --> 00:04:43,120
baltimore maryland a special

102
00:04:47,830 --> 00:04:45,120
ribbon-cutting ceremony took place to

103
00:04:50,070 --> 00:04:47,840
unveil an exhibit on nasa's next great

104
00:04:52,230 --> 00:04:50,080
space observatory the james webb

105
00:04:54,150 --> 00:04:52,240
telescope the event was part of the

106
00:04:56,629 --> 00:04:54,160
association of science technology

107
00:04:58,950 --> 00:04:56,639
center's annual conference while hubble

108
00:05:02,070 --> 00:04:58,960
made it possible for us to rewrite those

109
00:05:03,670 --> 00:05:02,080
science textbooks uncovering a vast new

110
00:05:05,510 --> 00:05:03,680
area of knowledge

111
00:05:08,790 --> 00:05:05,520
witnessing phenomenon that have never

112
00:05:11,909 --> 00:05:08,800
been seen before webb will reveal even

113
00:05:13,909 --> 00:05:11,919

more from its vantage point one million

114

00:05:16,150 --> 00:05:13,919

miles above the earth

115

00:05:18,629 --> 00:05:16,160

several dignitaries were on hand to mark

116

00:05:21,029 --> 00:05:18,639

the occasion from nobel prize winners

117

00:05:23,990 --> 00:05:21,039

and political officials to senior nasa

118

00:05:26,870 --> 00:05:24,000

staff nasa has always been that engine

119

00:05:30,150 --> 00:05:26,880

of economic growth and job creation the

120

00:05:32,150 --> 00:05:30,160

web telescope is just the latest and

121

00:05:34,390 --> 00:05:32,160

greatest example of that using

122

00:05:36,870 --> 00:05:34,400

state-of-the-art exhibits and multimedia

123

00:05:39,029 --> 00:05:36,880

resources the maryland science center is

124

00:05:41,830 --> 00:05:39,039

dedicated to presenting the latest in

125

00:05:43,909 --> 00:05:41,840

scientific discovery to the public

126

00:05:46,710 --> 00:05:43,919

the webb telescope is a joint project

127

00:05:50,870 --> 00:05:46,720

between nasa the european space agency

128

00:05:50,880 --> 00:05:54,870

and now centerpieces

129

00:05:59,029 --> 00:05:56,629

it's a delight for me to help unveil

130

00:06:01,189 --> 00:05:59,039

this impressive display and with that a

131

00:06:03,430 --> 00:06:01,199

special exhibit of nasa's james webb

132

00:06:05,670 --> 00:06:03,440

space telescope kicked off at the

133

00:06:07,430 --> 00:06:05,680

maryland science center in baltimore

134

00:06:09,189 --> 00:06:07,440

well maryland is the home of nasa's

135

00:06:11,670 --> 00:06:09,199

goddard space flight center the team

136

00:06:13,110 --> 00:06:11,680

that's leading the international science

137

00:06:15,350 --> 00:06:13,120

and engineering group that's building

138

00:06:17,029 --> 00:06:15,360

the james webb space telescope it's also

139

00:06:19,029 --> 00:06:17,039

home of the space telescope science

140

00:06:20,550 --> 00:06:19,039

institute who's operating and running

141

00:06:22,469 --> 00:06:20,560

all the science for the hubble space

142

00:06:24,150 --> 00:06:22,479

telescope and we'll do the same

143

00:06:25,270 --> 00:06:24,160

great work for the james webb space

144

00:06:27,350 --> 00:06:25,280

telescope

145

00:06:29,670 --> 00:06:27,360

standing several stories tall the

146

00:06:32,309 --> 00:06:29,680

full-sized mock-up gives visitors a

147

00:06:34,870 --> 00:06:32,319

preview effective light of how nasa is

148

00:06:37,990 --> 00:06:34,880

looking to build on the success of the

149

00:06:40,150 --> 00:06:38,000

hubble space telescope this is great

150

00:06:41,830 --> 00:06:40,160

this actually gives everyone an idea of

151
00:06:43,990 --> 00:06:41,840
what's actually going to be out there in

152
00:06:46,230 --> 00:06:44,000
space it's not necessarily you know

153
00:06:48,309 --> 00:06:46,240
going in and taking scoops of

154
00:06:50,790 --> 00:06:48,319
dust or moon rocks or stuff like that

155
00:06:53,029 --> 00:06:50,800
but it's definitely exploration

156
00:06:55,670 --> 00:06:53,039
exploration that's inspiring not just

157
00:06:57,430 --> 00:06:55,680
the public but the scientists who expect

158
00:06:59,670 --> 00:06:57,440
webb to push our knowledge of the

159
00:07:01,430 --> 00:06:59,680
universe to new heights

160
00:07:03,189 --> 00:07:01,440
we'll see inside dust clouds where stars

161
00:07:05,029 --> 00:07:03,199
are being born we even have a chance to

162
00:07:06,390 --> 00:07:05,039
see the atmospheres of planets around

163
00:07:07,589 --> 00:07:06,400

other stars and see if they're a little

164

00:07:09,189 --> 00:07:07,599

bit like earth

165

00:07:11,029 --> 00:07:09,199

so there's so many things we hope to

166

00:07:12,629 --> 00:07:11,039

discover and how many so many other

167

00:07:15,270 --> 00:07:12,639

things we haven't even thought of yet

168

00:07:16,870 --> 00:07:15,280

that just might turn up being a user of

169

00:07:19,189 --> 00:07:16,880

hubble with the wide field camera 3

170

00:07:21,110 --> 00:07:19,199

that's the best we can do until james

171

00:07:22,950 --> 00:07:21,120

webb launches and if i used it for 100

172

00:07:24,790 --> 00:07:22,960

years i wouldn't be able to do the kinds

173

00:07:27,189 --> 00:07:24,800

of investigations i would like to do

174

00:07:30,070 --> 00:07:27,199

with james webb a web telescope that

175

00:07:35,749 --> 00:07:30,080

will one day be hard at work a million

176
00:07:39,510 --> 00:07:37,589
taking a break from its science mission

177
00:07:42,230 --> 00:07:39,520
flights the stratospheric observatory

178
00:07:44,550 --> 00:07:42,240
for infrared astronomy or sophia came to

179
00:07:47,589 --> 00:07:44,560
nasa ames research center to offer tours

180
00:07:49,990 --> 00:07:47,599
to employees and vips alike

181
00:07:53,029 --> 00:07:50,000
the observatory consists of a 100 inch

182
00:07:56,309 --> 00:07:53,039
or 2.5 meter diameter telescope mounted

183
00:07:58,869 --> 00:07:56,319
inside a highly modified boeing 747sp

184
00:08:01,589 --> 00:07:58,879
aircraft that can fly at altitudes up to

185
00:08:03,749 --> 00:08:01,599
41 000 feet above sea level

186
00:08:05,990 --> 00:08:03,759
for two days the aircraft was opened up

187
00:08:08,070 --> 00:08:06,000
so the dignitaries members of the media

188
00:08:09,749 --> 00:08:08,080

nasa employees and the general public

189

00:08:10,869 --> 00:08:09,759

could take self-guided tours of the

190

00:08:13,270 --> 00:08:10,879

aircraft

191

00:08:15,510 --> 00:08:13,280

sophia is housed at nasa's dryden

192

00:08:17,670 --> 00:08:15,520

aircraft operations facility in palmdale

193

00:08:20,230 --> 00:08:17,680

california and is a cooperative effort

194

00:08:23,510 --> 00:08:20,240

between nasa and dlr the german

195

00:08:28,710 --> 00:08:26,230

welcome to nasa wild flight facility

196

00:08:30,950 --> 00:08:28,720

nasa's wallops flight facility hosted 48

197

00:08:33,269 --> 00:08:30,960

social media guests in its first ever

198

00:08:35,110 --> 00:08:33,279

tweet up an event designed to give

199

00:08:37,110 --> 00:08:35,120

nasa's social media followers an

200

00:08:39,190 --> 00:08:37,120

opportunity to visit and find out what

201
00:08:40,949 --> 00:08:39,200
wallops is all about we took the online

202
00:08:43,110 --> 00:08:40,959
engagement that we have with our fans

203
00:08:45,990 --> 00:08:43,120
and followers and made an in-person

204
00:08:48,150 --> 00:08:46,000
engagement and so we had a lottery and

205
00:08:50,070 --> 00:08:48,160
people could sign up register to come to

206
00:08:52,150 --> 00:08:50,080
this event and then 50 people were

207
00:08:54,630 --> 00:08:52,160
randomly selected to come and be here

208
00:08:56,710 --> 00:08:54,640
today nasa shares what it's doing as

209
00:08:58,710 --> 00:08:56,720
widely as possible and social media is

210
00:09:00,389 --> 00:08:58,720
one of the ways nasa can engage with the

211
00:09:02,150 --> 00:09:00,399
public people then will take what

212
00:09:03,590 --> 00:09:02,160
they're seeing and experiencing today

213
00:09:06,150 --> 00:09:03,600

and they'll share it on their social

214

00:09:08,630 --> 00:09:06,160

networks so they're essentially taking

215

00:09:10,630 --> 00:09:08,640

along their followers for

216

00:09:12,310 --> 00:09:10,640

everything they experience today you can

217

00:09:14,790 --> 00:09:12,320

find all the ways to follow nasa's

218

00:09:16,630 --> 00:09:14,800

social media and engage with us at

219

00:09:21,509 --> 00:09:16,640

nasa.gov

220

00:09:25,430 --> 00:09:23,350

much like the infinity of space the

221

00:09:27,190 --> 00:09:25,440

mercury rocket shaped corn maze appeared

222

00:09:29,750 --> 00:09:27,200

to go on forever at the belvedere

223

00:09:32,070 --> 00:09:29,760

plantation in fredericksburg virginia

224

00:09:33,910 --> 00:09:32,080

the space themed maze and nasa exhibits

225

00:09:35,829 --> 00:09:33,920

turned the virginia farm into an out of

226

00:09:37,030 --> 00:09:35,839

this world experience for families and

227

00:09:39,269 --> 00:09:37,040

visitors

228

00:09:41,350 --> 00:09:39,279

in addition to pumpkins hayrides slides

229

00:09:43,829 --> 00:09:41,360

and pony rides farm goers could visit

230

00:09:46,630 --> 00:09:43,839

nasa's driven to explore trailer touch a

231

00:09:48,470 --> 00:09:46,640

moon rock build a corn rocket and play

232

00:09:49,590 --> 00:09:48,480

educational games about science and

233

00:09:51,430 --> 00:09:49,600

space

234

00:09:54,230 --> 00:09:51,440

the outreach effort in an unexpected

235

00:09:56,070 --> 00:09:54,240

place got many people talking about nasa

236

00:09:57,990 --> 00:09:56,080

belvedere plantation is one of seven

237

00:09:59,829 --> 00:09:58,000

farms across the united states taking

238

00:10:02,230 --> 00:09:59,839

part in a project called space farm

239

00:10:04,389 --> 00:10:02,240

seven the project is a collaboration

240

00:10:06,389 --> 00:10:04,399

between nasa and members of a utah based

241

00:10:07,910 --> 00:10:06,399

company that helps farmers design and

242

00:10:09,670 --> 00:10:07,920

create mazes

243

00:10:11,990 --> 00:10:09,680

this year the organization decided to

244

00:10:14,150 --> 00:10:12,000

highlight nasa for those visiting the

245

00:10:15,750 --> 00:10:14,160

farm recently nasa's presence was a

246

00:10:18,870 --> 00:10:15,760

welcome surprise

247

00:10:21,509 --> 00:10:18,880

we came here to pick some pumpkins but

248

00:10:24,150 --> 00:10:21,519

learning about nasa was a excited

249

00:10:27,350 --> 00:10:24,160

exciting bonus

250

00:10:30,110 --> 00:10:27,360

and that's this week at nasa for more on

