

2017 Eclipse Across America



Eclipse



8 Days of
ECLIPSE
ACROSS
AMERICA



1
00:00:18,310 --> 00:00:13,410

[Music]

2
00:00:20,950 --> 00:00:18,320

well good afternoon here on the east

3
00:00:23,269 --> 00:00:20,960

coast and good morning out west my name

4
00:00:25,670 --> 00:00:23,279

is dwane brown with nasa headquarters

5
00:00:26,710 --> 00:00:25,680

office of communications we are coming

6
00:00:29,509 --> 00:00:26,720

to you

7
00:00:31,029 --> 00:00:29,519

live from the iconic museum here in the

8
00:00:33,110 --> 00:00:31,039

nation's capital

9
00:00:35,190 --> 00:00:33,120

happy summer solstice the official first

10
00:00:36,709 --> 00:00:35,200

day of summer and what a summer it's

11
00:00:38,790 --> 00:00:36,719

going to be

12
00:00:42,389 --> 00:00:38,800

today we have two briefings to talk

13
00:00:45,510 --> 00:00:42,399

about an event 99 years in the making

14

00:00:47,350 --> 00:00:45,520

the august 21st total solar eclipse

15

00:00:49,270 --> 00:00:47,360

across america

16

00:00:51,750 --> 00:00:49,280

now in these briefings we'll talk about

17

00:00:52,790 --> 00:00:51,760

and hear about safety in viewing the

18

00:00:56,470 --> 00:00:52,800

eclipse

19

00:00:59,430 --> 00:00:56,480

travel and of course the science

20

00:01:02,150 --> 00:00:59,440

the first briefing through the eyes of

21

00:01:05,030 --> 00:01:02,160

nasa you will hear

22

00:01:07,590 --> 00:01:05,040

the unprecedented assets

23

00:01:10,230 --> 00:01:07,600

from the american space program

24

00:01:12,789 --> 00:01:10,240

spacecraft airplanes balloons and a

25

00:01:14,710 --> 00:01:12,799

little bit of everything in between

26

00:01:16,789 --> 00:01:14,720

also

27

00:01:19,030 --> 00:01:16,799

the national oceanic and atmospheric

28

00:01:21,910 --> 00:01:19,040

administration have their own unique

29

00:01:23,910 --> 00:01:21,920

assets you'll hear about those

30

00:01:26,950 --> 00:01:23,920

coming back down to earth

31

00:01:28,310 --> 00:01:26,960

directly affecting the public obviously

32

00:01:30,469 --> 00:01:28,320

the parks

33

00:01:31,670 --> 00:01:30,479

there will be extraordinary record

34

00:01:33,510 --> 00:01:31,680

numbers

35

00:01:34,950 --> 00:01:33,520

of crowds

36

00:01:37,510 --> 00:01:34,960

at that national parks you're going to

37

00:01:39,030 --> 00:01:37,520

hear about to be better prepared and of

38

00:01:40,950 --> 00:01:39,040

course to get to those parks and the

39

00:01:42,149 --> 00:01:40,960

festivals and the museums and a whole

40

00:01:44,630 --> 00:01:42,159

plethora

41

00:01:46,389 --> 00:01:44,640

of activities across the country

42

00:01:48,870 --> 00:01:46,399

the transportation department will talk

43

00:01:51,590 --> 00:01:48,880

about the highways and byways so you can

44

00:01:53,830 --> 00:01:51,600

be better prepared

45

00:01:56,230 --> 00:01:53,840

we'll then have a brief intermission

46

00:01:58,069 --> 00:01:56,240

after our first briefing concludes and

47

00:01:59,429 --> 00:01:58,079

don't change that dial because during

48

00:02:01,830 --> 00:01:59,439

the intermission we're going to have

49

00:02:03,749 --> 00:02:01,840

safety videos and a lot of other

50

00:02:05,350 --> 00:02:03,759

important information for you to be

51
00:02:07,749 --> 00:02:05,360
better prepared and thinking even more

52
00:02:10,229 --> 00:02:07,759
about the october 20 i'm sorry the

53
00:02:12,550 --> 00:02:10,239
august 21st event then our second

54
00:02:15,270 --> 00:02:12,560
briefing will be about the science

55
00:02:17,430 --> 00:02:15,280
scientists have been preparing for this

56
00:02:18,630 --> 00:02:17,440
extraordinary event for years you're

57
00:02:21,589 --> 00:02:18,640
going to hear about what they're doing

58
00:02:23,110 --> 00:02:21,599
their activities and why you the public

59
00:02:24,949 --> 00:02:23,120
should care because

60
00:02:26,949 --> 00:02:24,959
we're probably going to see a lot of new

61
00:02:29,510 --> 00:02:26,959
folks going into the scientific field

62
00:02:30,949 --> 00:02:29,520
after the august event and of course

63
00:02:32,710 --> 00:02:30,959

during both briefings we'll have

64

00:02:35,270 --> 00:02:32,720

question and answer starting here at the

65

00:02:37,190 --> 00:02:35,280

newseum and then on the phone lines and

66

00:02:39,030 --> 00:02:37,200

social media

67

00:02:40,390 --> 00:02:39,040

you're going to hear several new sites

68

00:02:42,309 --> 00:02:40,400

or websites

69

00:02:44,229 --> 00:02:42,319

for the nasa

70

00:02:45,270 --> 00:02:44,239

everything about the eclipse through a

71

00:02:46,550 --> 00:02:45,280

through z

72

00:02:50,229 --> 00:02:46,560

and you may want to commit these to

73

00:02:54,949 --> 00:02:52,869

there will be lots of interactive

74

00:02:57,430 --> 00:02:54,959

information there and products

75

00:02:59,190 --> 00:02:57,440

and if it's not there well we'll get it

76

00:03:01,910 --> 00:02:59,200

up there you let us know

77

00:03:04,390 --> 00:03:01,920

and then on the august 21st date

78

00:03:06,869 --> 00:03:04,400

nasa.gov slash eclipse live

79

00:03:08,309 --> 00:03:06,879

the nasa television broadcast with some

80

00:03:10,550 --> 00:03:08,319

bells and whistles the international

81

00:03:13,190 --> 00:03:10,560

space station images through the eyes of

82

00:03:15,670 --> 00:03:13,200

nasa and the eclipse live also will have

83

00:03:19,670 --> 00:03:15,680

spanish content so make sure that you

84

00:03:22,869 --> 00:03:19,680

tune in for that and much much more

85

00:03:26,869 --> 00:03:25,190

eclipse 2017. they're going to be record

86

00:03:29,670 --> 00:03:26,879

numbers of social media

87

00:03:32,070 --> 00:03:29,680

follow us on that hashtag and also on

88

00:03:34,470 --> 00:03:32,080

youtube facebook and twitter all of

89

00:03:37,350 --> 00:03:34,480

those types of social media platforms

90

00:03:40,390 --> 00:03:37,360

now before i introduce you to our panel

91

00:03:43,110 --> 00:03:40,400

something special has already happened

92

00:03:45,670 --> 00:03:43,120

united states postal service

93

00:03:47,190 --> 00:03:45,680

dedicated the total eclipse of the sun

94

00:03:49,830 --> 00:03:47,200

forever stamp

95

00:03:51,750 --> 00:03:49,840

this first of its kind stamp is based on

96

00:03:54,149 --> 00:03:51,760

a photograph taken by retired nasa

97

00:03:56,229 --> 00:03:54,159

astrophysicist fred espinac the image

98

00:03:59,030 --> 00:03:56,239

shows a total solar eclipse seen from

99

00:04:00,550 --> 00:03:59,040

libya in 2006.

100

00:04:02,309 --> 00:04:00,560

the really cool thing about this is that

101

00:04:04,470 --> 00:04:02,319

it transforms into the moon from the

102

00:04:05,509 --> 00:04:04,480

heat of a finger and once it cools the

103

00:04:06,869 --> 00:04:05,519

eclipse

104

00:04:08,949 --> 00:04:06,879

image returns and the back of the

105

00:04:11,429 --> 00:04:08,959

stamping shows a map of the path of

106

00:04:13,190 --> 00:04:11,439

totality from coast to coast

107

00:04:15,750 --> 00:04:13,200

we have postal service representatives

108

00:04:17,830 --> 00:04:15,760

here in our front row for the media and

109

00:04:19,749 --> 00:04:17,840

social media to ask questions we don't

110

00:04:21,830 --> 00:04:19,759

have time here they certainly will be

111

00:04:24,150 --> 00:04:21,840

available afterwards these stamps are

112

00:04:25,670 --> 00:04:24,160

great collectibles you can buy them here

113

00:04:28,230 --> 00:04:25,680

at the museum

114

00:04:30,950 --> 00:04:28,240

and at the post office near you and

115

00:04:32,870 --> 00:04:30,960

online at usps.com

116

00:04:34,629 --> 00:04:32,880

shop ladies and gentlemen they have done

117

00:04:36,230 --> 00:04:34,639

an incredible job as they always do but

118

00:04:43,430 --> 00:04:36,240

they've outdone themselves can we give

119

00:04:47,749 --> 00:04:45,189

okay before we get started let me

120

00:04:49,510 --> 00:04:47,759

introduce you to our first panel

121

00:04:50,950 --> 00:04:49,520

thomas zubukin

122

00:04:53,030 --> 00:04:50,960

associate administrator of nasa's

123

00:04:55,990 --> 00:04:53,040

science mission directed at the agency's

124

00:04:57,670 --> 00:04:56,000

headquarters in washington

125

00:04:59,909 --> 00:04:57,680

vanessa griffin

126

00:05:01,990 --> 00:04:59,919

director of the national

127

00:05:03,670 --> 00:05:02,000

oceanic and atmospheric administration's

128

00:05:05,830 --> 00:05:03,680

office of satellite

129

00:05:07,749 --> 00:05:05,840

and product operation suitland

130

00:05:10,629 --> 00:05:07,759

maryland

131

00:05:11,610 --> 00:05:10,639

the gentleman an awesomely cool suit and

132

00:05:13,990 --> 00:05:11,620

a uniform there

133

00:05:16,230 --> 00:05:14,000

[Laughter]

134

00:05:18,310 --> 00:05:16,240

brian callstrom

135

00:05:20,230 --> 00:05:18,320

deputy associate director of the natural

136

00:05:23,029 --> 00:05:20,240

resource steward and science at the

137

00:05:24,550 --> 00:05:23,039

national park service in washington

138

00:05:25,909 --> 00:05:24,560

and martin cannot

139

00:05:27,430 --> 00:05:25,919

associate administrative office of

140

00:05:29,110 --> 00:05:27,440

operations in the federal highway

141

00:05:31,110 --> 00:05:29,120

administration in the u.s department of

142

00:05:33,510 --> 00:05:31,120

transportation in washington

143

00:05:34,790 --> 00:05:33,520

so thomas through the eyes of nasa

144

00:05:37,270 --> 00:05:34,800

over to you

145

00:05:39,670 --> 00:05:37,280

thanks so much twain

146

00:05:41,110 --> 00:05:39,680

you know during our busy life sometimes

147

00:05:42,950 --> 00:05:41,120

we forget

148

00:05:45,110 --> 00:05:42,960

that we're sitting on a planet that's

149

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

turning on its axis

150

00:05:49,270 --> 00:05:47,360

with a celestial body right next to it

151
00:05:52,230 --> 00:05:49,280
that was ripped out of the planet really

152
00:05:53,909 --> 00:05:52,240
late in its formation our moon and

153
00:05:55,909 --> 00:05:53,919
everything is based

154
00:05:58,070 --> 00:05:55,919
in the gases

155
00:06:00,150 --> 00:05:58,080
and the fields of

156
00:06:02,150 --> 00:06:00,160
our star the sun

157
00:06:04,390 --> 00:06:02,160
the most important star for us

158
00:06:06,550 --> 00:06:04,400
because it gives us life it is

159
00:06:09,670 --> 00:06:06,560
supporting everything we do but it's

160
00:06:12,790 --> 00:06:09,680
also the rosetta stone of all stars what

161
00:06:15,430 --> 00:06:12,800
we learn about stars we first learn here

162
00:06:17,189 --> 00:06:15,440
at the sun

163
00:06:20,150 --> 00:06:17,199

so the eclipse

164

00:06:22,629 --> 00:06:20,160

is important because these bodies come

165

00:06:24,950 --> 00:06:22,639

into alignment in a cosmic moment

166

00:06:26,710 --> 00:06:24,960

that we're all being part of

167

00:06:28,870 --> 00:06:26,720

and see

168

00:06:31,990 --> 00:06:28,880

these cosmic moments when nature speaks

169

00:06:35,830 --> 00:06:32,000

to us in an emotional way sometimes come

170

00:06:38,710 --> 00:06:35,840

loud like thunderstorms storms

171

00:06:41,990 --> 00:06:38,720

like hurricanes earthquakes

172

00:06:43,510 --> 00:06:42,000

but this one will be silent

173

00:06:46,469 --> 00:06:43,520

all of a sudden

174

00:06:49,670 --> 00:06:46,479

they will turn into night

175

00:06:51,990 --> 00:06:49,680

and back again and the world

176

00:06:54,150 --> 00:06:52,000

around us animals

177

00:06:55,909 --> 00:06:54,160

will react to it

178

00:06:58,150 --> 00:06:55,919

this emotion is really important you

179

00:07:01,189 --> 00:06:58,160

should talk to anybody who has seen

180

00:07:03,270 --> 00:07:01,199

such a eclipse and you know for me

181

00:07:05,749 --> 00:07:03,280

the story that i remember is my grandma

182

00:07:09,189 --> 00:07:05,759

who told me that story of her experience

183

00:07:12,230 --> 00:07:09,199

she's not a scientist whatsoever about

184

00:07:14,390 --> 00:07:12,240

experiencing that eclipse and how

185

00:07:16,710 --> 00:07:14,400

she was feeling how important that

186

00:07:18,309 --> 00:07:16,720

moment was she talked about birds about

187

00:07:22,309 --> 00:07:18,319

animals around

188

00:07:24,550 --> 00:07:22,319

and i really hope that all of us all of

189

00:07:26,870 --> 00:07:24,560

you who are watching this will in fact

190

00:07:29,029 --> 00:07:26,880

go enjoy this eclipse because it's

191

00:07:31,029 --> 00:07:29,039

important just for that reason

192

00:07:34,390 --> 00:07:31,039

but it's also about science

193

00:07:36,710 --> 00:07:34,400

eclipses have been important in finding

194

00:07:41,909 --> 00:07:36,720

discoveries that really have changed our

195

00:07:46,150 --> 00:07:43,430

that

196

00:07:48,629 --> 00:07:46,160

for the first time provided images of an

197

00:07:50,790 --> 00:07:48,639

emission we had never seen radiation we

198

00:07:52,469 --> 00:07:50,800

didn't understand and just because we

199

00:07:55,510 --> 00:07:52,479

didn't know it was what they didn't know

200

00:07:57,430 --> 00:07:55,520

what it was they called it helium

201
00:07:58,950 --> 00:07:57,440
helium of course is a gas that's really

202
00:08:01,029 --> 00:07:58,960
abundant around here it's in our

203
00:08:03,909 --> 00:08:01,039
balloons that rise to the sky on our

204
00:08:06,110 --> 00:08:03,919
birthdays or whatever so healing was

205
00:08:07,830 --> 00:08:06,120
discovered there in

206
00:08:10,309 --> 00:08:07,840
1919

207
00:08:11,430 --> 00:08:10,319
an observation of the eclipse by

208
00:08:13,029 --> 00:08:11,440
eddington

209
00:08:15,350 --> 00:08:13,039
provided the first proof of general

210
00:08:17,350 --> 00:08:15,360
relativity that light actually bends in

211
00:08:20,230 --> 00:08:17,360
the gravitational well of the

212
00:08:23,830 --> 00:08:20,240
sun and provided that first test of this

213
00:08:26,390 --> 00:08:23,840

very pivotal theory well science is what

214

00:08:28,950 --> 00:08:26,400

it's all about here for us at nasa and

215

00:08:30,950 --> 00:08:28,960

it's first of all heliophysics it's a

216

00:08:33,589 --> 00:08:30,960

science of the sun and its environment

217

00:08:35,750 --> 00:08:33,599

how these plasmas these gases interact

218

00:08:37,750 --> 00:08:35,760

with our planets but it's also about

219

00:08:39,110 --> 00:08:37,760

astrophysics like i just said planetary

220

00:08:41,509 --> 00:08:39,120

sciences

221

00:08:44,710 --> 00:08:41,519

such as at the moon and planets

222

00:08:47,430 --> 00:08:44,720

elsewhere and earth signs all of which

223

00:08:49,509 --> 00:08:47,440

will be involved in this important uh

224

00:08:51,829 --> 00:08:49,519

spectacles

225

00:08:54,710 --> 00:08:51,839

so this

226

00:08:57,030 --> 00:08:54,720

eclipse will be really important for us

227

00:08:59,670 --> 00:08:57,040

because it will be providing

228

00:09:02,150 --> 00:08:59,680

unprecedented advantage points

229

00:09:04,470 --> 00:09:02,160

of nasa assets

230

00:09:07,990 --> 00:09:04,480

in space in the air and underground and

231

00:09:11,110 --> 00:09:08,000

for us please start the movie

232

00:09:15,990 --> 00:09:12,310

we'll have

233

00:09:21,269 --> 00:09:16,000

12 11 spacecraft that are flying two of

234

00:09:22,710 --> 00:09:21,279

them with our uh sister agency anoa

235

00:09:24,310 --> 00:09:22,720

and

236

00:09:28,070 --> 00:09:24,320

the spacecraft

237

00:09:30,310 --> 00:09:28,080

uh a bunch of them uh as shown here are

238

00:09:32,150 --> 00:09:30,320

uh initially are looking at the sun

239

00:09:34,150 --> 00:09:32,160

they're looking at what we call the

240

00:09:35,670 --> 00:09:34,160

corona which is the atmosphere of the

241

00:09:37,509 --> 00:09:35,680

sun that's why it's called corona

242

00:09:40,230 --> 00:09:37,519

because of an eclipse observation it's

243

00:09:42,550 --> 00:09:40,240

like a crown around the moon and these

244

00:09:45,030 --> 00:09:42,560

observations will look at all colors

245

00:09:47,670 --> 00:09:45,040

from x-ray all the way to visible and

246

00:09:49,509 --> 00:09:47,680

beyond there's one spacecraft at the

247

00:09:52,150 --> 00:09:49,519

moon it's looking both at the moon but

248

00:09:54,550 --> 00:09:52,160

also along the shadow at the earth and

249

00:09:57,190 --> 00:09:54,560

looking at that unique vantage point and

250

00:09:59,670 --> 00:09:57,200

then of course we have a whole series of

251
00:10:01,990 --> 00:09:59,680
spacecraft in orbit around earth looking

252
00:10:04,150 --> 00:10:02,000
at both the incoming radiation and the

253
00:10:06,870 --> 00:10:04,160
radiation that's coming back from earth

254
00:10:09,829 --> 00:10:06,880
really providing us a unique experiment

255
00:10:11,990 --> 00:10:09,839
of how solar radiation interacts with

256
00:10:15,190 --> 00:10:12,000
the earth atmosphere we're also making

257
00:10:17,110 --> 00:10:15,200
observations in air with these

258
00:10:19,190 --> 00:10:17,120
aircraft and i don't want to forget the

259
00:10:21,269 --> 00:10:19,200
astronauts who will look out the window

260
00:10:22,710 --> 00:10:21,279
and i really look at this spectacle from

261
00:10:24,150 --> 00:10:22,720
up there

262
00:10:26,470 --> 00:10:24,160
on the ground

263
00:10:27,590 --> 00:10:26,480

the same kind of excitement will occur

264

00:10:29,590 --> 00:10:27,600

because of the fact that we have

265

00:10:31,350 --> 00:10:29,600

professional astronomers but also

266

00:10:32,949 --> 00:10:31,360

citizen astronomers

267

00:10:34,790 --> 00:10:32,959

individuals that go out there and

268

00:10:38,230 --> 00:10:34,800

together look at this eclipse and

269

00:10:40,790 --> 00:10:38,240

provide unique science that will come

270

00:10:43,190 --> 00:10:40,800

together and really help us understand

271

00:10:44,150 --> 00:10:43,200

new things about the sun new things

272

00:10:46,470 --> 00:10:44,160

about

273

00:10:49,030 --> 00:10:46,480

the earth and how they interact

274

00:10:52,389 --> 00:10:49,040

in this unique eclipse this unique

275

00:10:57,030 --> 00:10:55,350

before i close off i want to remind

276

00:10:59,030 --> 00:10:57,040

ourselves that

277

00:11:01,190 --> 00:10:59,040

it's really not good for your eyes to

278

00:11:02,150 --> 00:11:01,200

look at the sun it's not good to look at

279

00:11:06,790 --> 00:11:02,160

the sun

280

00:11:08,550 --> 00:11:06,800

but it's also not good if only half or

281

00:11:10,870 --> 00:11:08,560

three quarters of the sun are covered

282

00:11:14,630 --> 00:11:10,880

the sun is way too bright

283

00:11:17,030 --> 00:11:14,640

for your eyes so be safe do enjoy it but

284

00:11:18,470 --> 00:11:17,040

be safe the only time it's really okay

285

00:11:20,870 --> 00:11:18,480

to look at the sun

286

00:11:23,750 --> 00:11:20,880

is when it's entirely covered uh by the

287

00:11:25,990 --> 00:11:23,760

noon for those two minutes or so uh that

288

00:11:28,230 --> 00:11:26,000

are out there so what i want to do is

289

00:11:31,110 --> 00:11:28,240

just tell you a story that really moved

290

00:11:33,670 --> 00:11:31,120

me and it's a story that was actually uh

291

00:11:35,990 --> 00:11:33,680

made possible by an individual in the

292

00:11:38,150 --> 00:11:36,000

audience here uh casranian from the

293

00:11:41,750 --> 00:11:38,160

college of charleston is sitting in the

294

00:11:43,990 --> 00:11:41,760

audience and it's a map that is making

295

00:11:46,389 --> 00:11:44,000

the eclipse accessible

296

00:11:48,790 --> 00:11:46,399

to those of our friends and colleagues

297

00:11:51,829 --> 00:11:48,800

who are visually impaired or blind

298

00:11:52,949 --> 00:11:51,839

and so what this provides is a map

299

00:11:53,750 --> 00:11:52,959

that

300

00:11:56,150 --> 00:11:53,760

these

301
00:11:57,670 --> 00:11:56,160
individuals can feel and really get the

302
00:11:58,949 --> 00:11:57,680
geometry both

303
00:12:00,310 --> 00:11:58,959
of this

304
00:12:03,430 --> 00:12:00,320
shadow

305
00:12:07,110 --> 00:12:03,440
you know across the country but also

306
00:12:09,509 --> 00:12:07,120
off uh the corona and the entire lineup

307
00:12:12,550 --> 00:12:09,519
of the sun and the moon so i'm just so

308
00:12:15,509 --> 00:12:12,560
excited that also in this case um

309
00:12:16,629 --> 00:12:15,519
our individual our friends that have do

310
00:12:18,550 --> 00:12:16,639
not see

311
00:12:20,470 --> 00:12:18,560
the light of the sun can really be part

312
00:12:22,310 --> 00:12:20,480
of that enormous experience of course

313
00:12:25,269 --> 00:12:22,320

they will also hear that we're going to

314

00:12:27,430 --> 00:12:25,279

feel but they can also touch it here

315

00:12:29,269 --> 00:12:27,440

but what i'm going to turn it over now

316

00:12:31,110 --> 00:12:29,279

to you vanessa and tell us about noah

317

00:12:33,350 --> 00:12:31,120

and the assets that you have

318

00:12:34,949 --> 00:12:33,360

thank you tommy

319

00:12:36,870 --> 00:12:34,959

first i want to say that your comment

320

00:12:39,430 --> 00:12:36,880

about the emotion of an eclipse is

321

00:12:41,590 --> 00:12:39,440

really dear to me as well i think i saw

322

00:12:43,590 --> 00:12:41,600

my first and only eclipse back in 79 as

323

00:12:45,509 --> 00:12:43,600

an undergraduate student and that

324

00:12:47,190 --> 00:12:45,519

experience helped me formulate in my own

325

00:12:49,350 --> 00:12:47,200

mind that that idea that i wanted to

326

00:12:50,470 --> 00:12:49,360

have a career in science that's the kind

327

00:12:51,990 --> 00:12:50,480

of thing that

328

00:12:53,590 --> 00:12:52,000

something as simple as a total solar

329

00:12:55,509 --> 00:12:53,600

eclipse or a partial eclipse can really

330

00:12:56,949 --> 00:12:55,519

inspire in our students around the

331

00:12:58,710 --> 00:12:56,959

country

332

00:13:01,590 --> 00:12:58,720

but anyway so as you heard already this

333

00:13:04,550 --> 00:13:01,600

is a 99-year event it's been 99 years

334

00:13:07,030 --> 00:13:04,560

since a total solar eclipse across the

335

00:13:08,550 --> 00:13:07,040

entire us from the east coast west coast

336

00:13:11,030 --> 00:13:08,560

to the east coast

337

00:13:11,990 --> 00:13:11,040

and noaa is very excited to be able to

338

00:13:14,310 --> 00:13:12,000

help

339

00:13:16,629 --> 00:13:14,320

you experience that with providing views

340

00:13:18,069 --> 00:13:16,639

from our satellites of the eclipse as

341

00:13:19,350 --> 00:13:18,079

it's happening

342

00:13:21,190 --> 00:13:19,360

of course there's

343

00:13:23,590 --> 00:13:21,200

two factors involved in whether you will

344

00:13:25,350 --> 00:13:23,600

see these eclipse one the geography of

345

00:13:26,550 --> 00:13:25,360

where you live are you in the band where

346

00:13:28,150 --> 00:13:26,560

the total solar eclipse will be

347

00:13:29,590 --> 00:13:28,160

occurring or will you be in the

348

00:13:32,150 --> 00:13:29,600

remainder of the united states which

349

00:13:33,430 --> 00:13:32,160

will have partial viewing of an eclipse

350

00:13:35,269 --> 00:13:33,440

and of course the other factor is

351

00:13:37,110 --> 00:13:35,279

whether there'll be clear weather for

352

00:13:38,790 --> 00:13:37,120

you to experience the view so we'll talk

353

00:13:41,030 --> 00:13:38,800

about that

354

00:13:42,790 --> 00:13:41,040

you may not be aware but noaa owns and

355

00:13:44,949 --> 00:13:42,800

operates all of the nation's weather

356

00:13:47,750 --> 00:13:44,959

satellites a series of very high

357

00:13:49,350 --> 00:13:47,760

resolution very capable satellites that

358

00:13:51,189 --> 00:13:49,360

allow us to view the eclipse from

359

00:13:53,670 --> 00:13:51,199

different perspectives and we'll be

360

00:13:56,310 --> 00:13:53,680

doing that on august 21st can i have my

361

00:13:58,150 --> 00:13:56,320

first graphic for please

362

00:14:00,150 --> 00:13:58,160

this is a graphic that shows all of

363

00:14:02,389 --> 00:14:00,160

noah's satellites and the very orbits

364

00:14:04,550 --> 00:14:02,399

around the earth that they are in

365

00:14:06,790 --> 00:14:04,560

currently we have two particular ones i

366

00:14:08,949 --> 00:14:06,800

want to talk about one is our discover

367

00:14:10,150 --> 00:14:08,959

satellite which is outside the earth's

368

00:14:14,389 --> 00:14:10,160

orbit

369

00:14:17,030 --> 00:14:14,399

well so it has a camera on board a nasa

370

00:14:18,550 --> 00:14:17,040

camera epic that looks back at the earth

371

00:14:20,470 --> 00:14:18,560

and with that image we'll be able to

372

00:14:21,910 --> 00:14:20,480

actually capture images of the moon

373

00:14:23,670 --> 00:14:21,920

moving across

374

00:14:26,069 --> 00:14:23,680

the continent as it as the eclipse

375

00:14:27,430 --> 00:14:26,079

occurs we also have instruments on board

376

00:14:29,590 --> 00:14:27,440

that of course look at the sun and

377

00:14:32,310 --> 00:14:29,600

monitor the solar output the space

378

00:14:34,550 --> 00:14:32,320

weather as we call it um and basically

379

00:14:37,110 --> 00:14:34,560

being our sentinel constantly looking at

380

00:14:39,269 --> 00:14:37,120

the sun making us aware of what's coming

381

00:14:40,550 --> 00:14:39,279

at us from the solar environment

382

00:14:41,910 --> 00:14:40,560

and of course we'll learn more about

383

00:14:44,389 --> 00:14:41,920

that um you'll hear more about that in

384

00:14:46,949 --> 00:14:44,399

the science discussion later our other

385

00:14:49,509 --> 00:14:46,959

satellite our newest next generation go

386

00:14:51,189 --> 00:14:49,519

16 satellite you may have heard your

387

00:14:53,030 --> 00:14:51,199

local meteorologists around the country

388

00:14:53,829 --> 00:14:53,040

raving about this new satellite that we

389

00:14:55,990 --> 00:14:53,839

have

390

00:14:58,150 --> 00:14:56,000

it provides us just an incredible new

391

00:15:00,790 --> 00:14:58,160

capability we have the probably the most

392

00:15:02,550 --> 00:15:00,800

advanced instrument ever developed for

393

00:15:04,710 --> 00:15:02,560

monitoring the weather

394

00:15:06,389 --> 00:15:04,720

on the earth it's it's currently in

395

00:15:08,470 --> 00:15:06,399

testing and launched in november and

396

00:15:09,750 --> 00:15:08,480

it's going through a series of tests we

397

00:15:12,629 --> 00:15:09,760

actually won't be moving it into

398

00:15:14,150 --> 00:15:12,639

operations until next next november

399

00:15:16,710 --> 00:15:14,160

but in the meantime we're going to use

400

00:15:18,870 --> 00:15:16,720

this capability to monitor the eclipse

401
00:15:21,269 --> 00:15:18,880
as it occurs for instance we hope we're

402
00:15:23,829 --> 00:15:21,279
developing our scanning strategy now but

403
00:15:26,230 --> 00:15:23,839
we hope to have 30 second images

404
00:15:28,069 --> 00:15:26,240
of the lunar shadow on the earth as it

405
00:15:29,990 --> 00:15:28,079
moves across the continent from the goes

406
00:15:32,230 --> 00:15:30,000
16 satellite

407
00:15:34,949 --> 00:15:32,240
but goes 16 is also armed with a new

408
00:15:37,910 --> 00:15:34,959
instrument a very high resolution high

409
00:15:39,430 --> 00:15:37,920
powered camera that looks at the sun

410
00:15:41,269 --> 00:15:39,440
this camera will be looking at the sun

411
00:15:43,269 --> 00:15:41,279
during the eclipse and we do expect to

412
00:15:44,949 --> 00:15:43,279
see effects from the eclipse in the

413
00:15:46,790 --> 00:15:44,959

image be able to see the moon's image in

414

00:15:49,509 --> 00:15:46,800

the image and of course this camera

415

00:15:51,030 --> 00:15:49,519

looks at the sun constantly to monitor

416

00:15:51,990 --> 00:15:51,040

the sun's activities and what's

417

00:15:53,189 --> 00:15:52,000

happening

418

00:15:54,790 --> 00:15:53,199

as we go

419

00:15:56,550 --> 00:15:54,800

we have a number of other satellites our

420

00:15:58,629 --> 00:15:56,560

polar orbiting satellites including

421

00:16:02,470 --> 00:15:58,639

including suny mpp

422

00:16:04,550 --> 00:16:02,480

noaa 15 noaa 18 and noaa 19 as well as

423

00:16:05,910 --> 00:16:04,560

our partner satellites from europe

424

00:16:07,670 --> 00:16:05,920

because these are polar orbiting

425

00:16:09,670 --> 00:16:07,680

satellites many of them will actually be

426
00:16:12,150 --> 00:16:09,680
orbiting the earth and crossing over the

427
00:16:13,910 --> 00:16:12,160
united states during the eclipse period

428
00:16:15,910 --> 00:16:13,920
and we'll get images again of the lunar

429
00:16:17,749 --> 00:16:15,920
shadow in those images so it's going to

430
00:16:19,189 --> 00:16:17,759
be fascinating we can't wait to see the

431
00:16:20,710 --> 00:16:19,199
data

432
00:16:22,629 --> 00:16:20,720
of course the most important thing if

433
00:16:23,990 --> 00:16:22,639
i'll bring up my next graphic please the

434
00:16:25,269 --> 00:16:24,000
most important thing is what will the

435
00:16:27,110 --> 00:16:25,279
weather be

436
00:16:28,870 --> 00:16:27,120
so this image this graphic was produced

437
00:16:30,710 --> 00:16:28,880
by noaa's national center for

438
00:16:32,710 --> 00:16:30,720

environmental information

439

00:16:35,509 --> 00:16:32,720

and it shows that as the eclipse moves

440

00:16:37,430 --> 00:16:35,519

west to east across the united states

441

00:16:39,670 --> 00:16:37,440

there's increasing likelihood of

442

00:16:41,829 --> 00:16:39,680

cloudiness in the areas of where you'll

443

00:16:43,829 --> 00:16:41,839

be able to view the eclipse

444

00:16:45,670 --> 00:16:43,839

this is due to many factors for instance

445

00:16:46,710 --> 00:16:45,680

if you look at the western coast of

446

00:16:48,310 --> 00:16:46,720

oregon

447

00:16:50,470 --> 00:16:48,320

and the southeastern states you see

448

00:16:52,389 --> 00:16:50,480

areas again that'll have a higher

449

00:16:54,949 --> 00:16:52,399

likelihood of cloudiness because of the

450

00:16:56,710 --> 00:16:54,959

humidity that they have on average now

451

00:16:58,470 --> 00:16:56,720

this is taken from historical data this

452

00:17:00,470 --> 00:16:58,480

is not a forecast it's just the

453

00:17:02,710 --> 00:17:00,480

historical average the percentage of

454

00:17:03,670 --> 00:17:02,720

cloud cover that you can experience or

455

00:17:05,270 --> 00:17:03,680

expect

456

00:17:08,309 --> 00:17:05,280

based on history

457

00:17:09,829 --> 00:17:08,319

on august 21st in the afternoon

458

00:17:11,510 --> 00:17:09,839

there are many other factors also that

459

00:17:13,829 --> 00:17:11,520

involve your ability to see the eclipse

460

00:17:15,909 --> 00:17:13,839

one is your geography the terrain are

461

00:17:18,470 --> 00:17:15,919

there mountains other things that would

462

00:17:20,390 --> 00:17:18,480

limit your exposure time your view time

463

00:17:22,710 --> 00:17:20,400

and also fog and other events that could

464

00:17:25,189 --> 00:17:22,720

happen and of course this is late summer

465

00:17:27,110 --> 00:17:25,199

it's late august and it's mid-afternoon

466

00:17:29,430 --> 00:17:27,120

and we know what that means that means a

467

00:17:31,270 --> 00:17:29,440

chance of showers and thunderstorms and

468

00:17:33,430 --> 00:17:31,280

so again as you look at this graphic you

469

00:17:35,830 --> 00:17:33,440

see the eastern half the united states

470

00:17:38,789 --> 00:17:35,840

is much darker again because of the

471

00:17:40,390 --> 00:17:38,799

presence over time on that day of

472

00:17:42,070 --> 00:17:40,400

thunderstorms and showers in the

473

00:17:43,750 --> 00:17:42,080

afternoon so

474

00:17:45,190 --> 00:17:43,760

we certainly hope you have clear skies

475

00:17:47,029 --> 00:17:45,200

but we wanted to let you be aware of

476

00:17:48,870 --> 00:17:47,039

what what you could expect if you're

477

00:17:50,150 --> 00:17:48,880

planning to travel and you want to know

478

00:17:52,070 --> 00:17:50,160

where to go

479

00:17:53,590 --> 00:17:52,080

nasa is very excited about the eclipse

480

00:17:54,549 --> 00:17:53,600

very excited if we bring up my next

481

00:17:56,710 --> 00:17:54,559

graphic

482

00:17:58,630 --> 00:17:56,720

about helping you get information that

483

00:18:01,029 --> 00:17:58,640

you want so we have a series of websites

484

00:18:02,789 --> 00:18:01,039

we've put together that show noaa's data

485

00:18:05,270 --> 00:18:02,799

not nasa knows data

486

00:18:06,870 --> 00:18:05,280

of course our ncei data sites as other

487

00:18:08,710 --> 00:18:06,880

things

488

00:18:10,150 --> 00:18:08,720

we hope you have clear skies we hope the

489

00:18:11,990 --> 00:18:10,160

weather is great we hope you have great

490

00:18:13,909 --> 00:18:12,000

viewing of the eclipse we're excited

491

00:18:15,190 --> 00:18:13,919

about it and i know that many of you

492

00:18:17,190 --> 00:18:15,200

will be traveling to try to find

493

00:18:18,950 --> 00:18:17,200

locations where you can best view the

494

00:18:20,870 --> 00:18:18,960

the event and many of those will be in

495

00:18:22,390 --> 00:18:20,880

the national park so i'll hand it over

496

00:18:25,350 --> 00:18:22,400

to brian to talk about the national

497

00:18:27,110 --> 00:18:25,360

parks thank you vanessa yes eclipse is a

498

00:18:28,710 --> 00:18:27,120

very significant event for the national

499

00:18:30,950 --> 00:18:28,720

park service and we hope many of you

500

00:18:31,909 --> 00:18:30,960

will come and enjoy it in your national

501
00:18:35,350 --> 00:18:31,919

parks

502
00:18:36,870 --> 00:18:35,360

it's a special day for everyone as a

503
00:18:39,590 --> 00:18:36,880

couple of experiences have been shared

504
00:18:41,430 --> 00:18:39,600

this is your opportunity to create your

505
00:18:43,270 --> 00:18:41,440

experience related to the eclipse that

506
00:18:44,710 --> 00:18:43,280

you can hopefully one day

507
00:18:47,990 --> 00:18:44,720

perhaps share it with your family or

508
00:18:53,430 --> 00:18:50,150

so where can you see it in the national

509
00:18:55,110 --> 00:18:53,440

parks well it just so happens that 20 of

510
00:18:57,909 --> 00:18:55,120

the national parks

511
00:19:00,630 --> 00:18:57,919

are exactly in the area of totality and

512
00:19:02,310 --> 00:19:00,640

nine of the national trails bisect

513
00:19:04,789 --> 00:19:02,320

the path as well

514

00:19:06,789 --> 00:19:04,799

going from west to east

515

00:19:09,190 --> 00:19:06,799

the first park that will experience the

516

00:19:11,510 --> 00:19:09,200

eclipse in totality is john day fossil

517

00:19:12,630 --> 00:19:11,520

beds and it will wrap up several hours

518

00:19:15,350 --> 00:19:12,640

later

519

00:19:18,150 --> 00:19:15,360

at fort sumter in south carolina

520

00:19:19,270 --> 00:19:18,160

now all the parks in the lower 48

521

00:19:21,190 --> 00:19:19,280

because they are

522

00:19:23,110 --> 00:19:21,200

in a lot of other places as well

523

00:19:25,510 --> 00:19:23,120

will experience the eclipse at some

524

00:19:27,990 --> 00:19:25,520

level check with the local parks website

525

00:19:30,310 --> 00:19:28,000

to experience to determine exactly what

526

00:19:31,750 --> 00:19:30,320

that's going to be

527

00:19:34,470 --> 00:19:31,760

now what's happening in the national

528

00:19:37,990 --> 00:19:34,480

parks related to the eclipse well a lot

529

00:19:39,510 --> 00:19:38,000

of specific activities are happening

530

00:19:41,350 --> 00:19:39,520

you know we're trying to help people to

531

00:19:43,909 --> 00:19:41,360

learn and experience more about the

532

00:19:45,430 --> 00:19:43,919

parks as quickly as they can

533

00:19:48,070 --> 00:19:45,440

and

534

00:19:49,669 --> 00:19:48,080

partnering with a lot of communities

535

00:19:52,150 --> 00:19:49,679

including nasa

536

00:19:54,549 --> 00:19:52,160

harvard the smithsonian and the

537

00:19:58,950 --> 00:19:54,559

planetary society

538

00:20:01,270 --> 00:19:58,960

to host a special event at homestead

539

00:20:03,270 --> 00:20:01,280

national monument in nebraska that is

540

00:20:04,950 --> 00:20:03,280

going to be having a three-day festival

541

00:20:08,310 --> 00:20:04,960

all around the eclipse

542

00:20:11,909 --> 00:20:10,230

so to plan your visit

543

00:20:13,909 --> 00:20:11,919

for this once in a lifetime event make

544

00:20:15,350 --> 00:20:13,919

sure to plan ahead

545

00:20:18,789 --> 00:20:15,360

make sure to plan to experience the

546

00:20:20,230 --> 00:20:18,799

eclipse in a national park

547

00:20:22,149 --> 00:20:20,240

like you would any other visit to the

548

00:20:24,310 --> 00:20:22,159

national park visit the website that's

549

00:20:27,669 --> 00:20:24,320

your best place to get started make sure

550

00:20:29,750 --> 00:20:27,679

you bring food expect crowds be patient

551

00:20:32,070 --> 00:20:29,760

this is a once time once in a lifetime

552

00:20:33,510 --> 00:20:32,080

event for everybody and we want you all

553

00:20:34,870 --> 00:20:33,520

to have an amazing experience while

554

00:20:37,190 --> 00:20:34,880

you're there

555

00:20:38,310 --> 00:20:37,200

so what can people take part in

556

00:20:39,909 --> 00:20:38,320

well

557

00:20:41,029 --> 00:20:39,919

you can stay in the parks next slide

558

00:20:43,190 --> 00:20:41,039

please

559

00:20:44,950 --> 00:20:43,200

after the eclipse to see spectacular

560

00:20:46,549 --> 00:20:44,960

night skies

561

00:20:48,870 --> 00:20:46,559

you can join

562

00:20:51,430 --> 00:20:48,880

other citizen scientists and observe the

563

00:20:55,510 --> 00:20:51,440

behavior of plants and animals during

564

00:20:57,909 --> 00:20:57,029

and

565

00:20:59,909 --> 00:20:57,919

like

566

00:21:01,190 --> 00:20:59,919

tom thomas mentioned earlier we want to

567

00:21:02,789 --> 00:21:01,200

make sure that when you're doing so

568

00:21:04,710 --> 00:21:02,799

you're doing it as safely as possible

569

00:21:05,750 --> 00:21:04,720

both during the event and when you get

570

00:21:06,870 --> 00:21:05,760

there

571

00:21:09,270 --> 00:21:06,880

we know you're going to be traveling on

572

00:21:11,510 --> 00:21:09,280

a lot of roads and federal highways and

573

00:21:13,350 --> 00:21:11,520

to talk to us specifically about that is

574

00:21:14,950 --> 00:21:13,360

martin thanks brian

575

00:21:17,510 --> 00:21:14,960

yeah you know the audience may not

576
00:21:18,549 --> 00:21:17,520
normally put heavenly bodies the moon

577
00:21:20,950 --> 00:21:18,559
the sun

578
00:21:22,630 --> 00:21:20,960
you know eclipses with why is this

579
00:21:25,190 --> 00:21:22,640
friendly neighborhood federal highway

580
00:21:27,510 --> 00:21:25,200
administration person talking

581
00:21:29,029 --> 00:21:27,520
and and yet i'm here representing the

582
00:21:31,190 --> 00:21:29,039
people that are working to make sure

583
00:21:33,190 --> 00:21:31,200
that you get there safe to fully enjoy

584
00:21:35,110 --> 00:21:33,200
it and that's that's what we're after we

585
00:21:36,549 --> 00:21:35,120
want the drivers and their families to

586
00:21:37,909 --> 00:21:36,559
be prepared

587
00:21:39,510 --> 00:21:37,919
and to

588
00:21:40,870 --> 00:21:39,520

be safe while they're out there enjoying

589

00:21:43,909 --> 00:21:40,880

this event

590

00:21:45,270 --> 00:21:43,919

because the scientists we know that 14

591

00:21:47,029 --> 00:21:45,280

states

592

00:21:48,710 --> 00:21:47,039

are going to be in the direct path of

593

00:21:49,510 --> 00:21:48,720

the total eclipse

594

00:21:51,909 --> 00:21:49,520

now

595

00:21:53,029 --> 00:21:51,919

across the country that is a lot of land

596

00:21:55,029 --> 00:21:53,039

to cover

597

00:21:57,909 --> 00:21:55,039

and what we understand is it represents

598

00:21:59,590 --> 00:21:57,919

about 200 million people that are within

599

00:22:02,390 --> 00:21:59,600

one day's drive

600

00:22:04,470 --> 00:22:02,400

of getting to within the direct path

601
00:22:07,110 --> 00:22:04,480
so that is a lot of people with

602
00:22:09,510 --> 00:22:07,120
potential to be out on the roads

603
00:22:11,110 --> 00:22:09,520
and and we want them to get out there

604
00:22:13,590 --> 00:22:11,120
enjoy this experience but we need them

605
00:22:15,830 --> 00:22:13,600
to do it safely there may be more people

606
00:22:17,590 --> 00:22:15,840
on the roads than are normally expected

607
00:22:19,510 --> 00:22:17,600
or

608
00:22:21,270 --> 00:22:19,520
expected out there on the roads there

609
00:22:23,350 --> 00:22:21,280
may be more pedestrians

610
00:22:24,710 --> 00:22:23,360
who are out looking to get good sites to

611
00:22:27,110 --> 00:22:24,720
be able to view it

612
00:22:28,789 --> 00:22:27,120
and bicyclists who are who are enjoying

613
00:22:31,270 --> 00:22:28,799

the summertime weather

614

00:22:34,149 --> 00:22:31,280

so if we pull up first graphic

615

00:22:36,470 --> 00:22:34,159

we show a map of the interstates that

616

00:22:38,390 --> 00:22:36,480

are in the path of the total eclipse and

617

00:22:40,789 --> 00:22:38,400

these are just interstates

618

00:22:43,590 --> 00:22:40,799

the maps too small to be able to put on

619

00:22:45,750 --> 00:22:43,600

all the the other highway routes and the

620

00:22:49,350 --> 00:22:45,760

local county roads and the city streets

621

00:22:54,470 --> 00:22:51,590

there's approximately 20 interstates

622

00:22:55,590 --> 00:22:54,480

that are in the direct path and on

623

00:23:00,710 --> 00:22:55,600

average

624

00:23:02,230 --> 00:23:00,720

serve about two million drivers

625

00:23:04,710 --> 00:23:02,240

that's a lot and that is just again the

626
00:23:06,710 --> 00:23:04,720
interstates not the not the highways and

627
00:23:09,190 --> 00:23:06,720
the city streets and the others so we

628
00:23:11,029 --> 00:23:09,200
don't really know exactly how many might

629
00:23:13,110 --> 00:23:11,039
be out there driving around to get in

630
00:23:14,710 --> 00:23:13,120
good position for this

631
00:23:16,390 --> 00:23:14,720
but we know that there will likely be

632
00:23:17,750 --> 00:23:16,400
several million

633
00:23:20,710 --> 00:23:17,760
the good thing is

634
00:23:23,669 --> 00:23:20,720
14 states well their state departments

635
00:23:25,110 --> 00:23:23,679
of transportation are already planning

636
00:23:27,430 --> 00:23:25,120
they're already coordinating with local

637
00:23:29,270 --> 00:23:27,440
governments with law enforcement with

638
00:23:31,270 --> 00:23:29,280

emergency responders

639

00:23:33,909 --> 00:23:31,280

so they are working to help make sure

640

00:23:35,510 --> 00:23:33,919

that that the governments and the roads

641

00:23:37,110 --> 00:23:35,520

are as prepared for the people to handle

642

00:23:39,270 --> 00:23:37,120

that as possible

643

00:23:41,029 --> 00:23:39,280

in fact we have stephen lovren's here

644

00:23:42,549 --> 00:23:41,039

from the national operations center of

645

00:23:44,390 --> 00:23:42,559

excellence he's going to be here to help

646

00:23:47,430 --> 00:23:44,400

with any questions that you may have

647

00:23:49,909 --> 00:23:47,440

regarding the states and preparedness

648

00:23:51,750 --> 00:23:49,919

the center of excellence helps provide

649

00:23:53,110 --> 00:23:51,760

best practices for state and locals to

650

00:23:55,110 --> 00:23:53,120

help make sure they're ready for things

651
00:23:57,590 --> 00:23:55,120
like this

652
00:23:59,510 --> 00:23:57,600
federal highway administration fhwa we

653
00:24:01,990 --> 00:23:59,520
encourage travelers we want them to be

654
00:24:03,990 --> 00:24:02,000
excited about this but be prepared it's

655
00:24:05,990 --> 00:24:04,000
not a time to just show up and on the

656
00:24:07,510 --> 00:24:06,000
spur of a moment

657
00:24:09,909 --> 00:24:07,520
drive for a few minutes with your head

658
00:24:11,750 --> 00:24:09,919
out the window looking up at the sky

659
00:24:14,070 --> 00:24:11,760
it's not a time to just pull over you

660
00:24:15,190 --> 00:24:14,080
know and be on the side of the road

661
00:24:17,990 --> 00:24:15,200
if we could

662
00:24:19,269 --> 00:24:18,000
pull up our next graphic it's a web page

663
00:24:20,950 --> 00:24:19,279

that we've put together in federal

664

00:24:23,350 --> 00:24:20,960

highways that provides relevant

665

00:24:25,990 --> 00:24:23,360

information about the total eclipse it

666

00:24:27,990 --> 00:24:26,000

gives you links to the 14 state dots and

667

00:24:30,549 --> 00:24:28,000

the information that they're providing

668

00:24:32,310 --> 00:24:30,559

it has links to the national center of

669

00:24:34,149 --> 00:24:32,320

excellence for operations we've got

670

00:24:36,230 --> 00:24:34,159

links to the nasa sites and you know so

671

00:24:37,590 --> 00:24:36,240

we try to make it as easy as possible

672

00:24:41,269 --> 00:24:37,600

for people that are looking for good

673

00:24:44,230 --> 00:24:43,269

also it's not just the normal traveling

674

00:24:46,549 --> 00:24:44,240

public

675

00:24:49,430 --> 00:24:46,559

freight companies that move our goods

676

00:24:51,430 --> 00:24:49,440

and products that we need and enjoy

677

00:24:54,070 --> 00:24:51,440

uh they already have to be very safety

678

00:24:55,190 --> 00:24:54,080

conscious for cars that dart in front of

679

00:24:58,630 --> 00:24:55,200

the trucks

680

00:25:01,110 --> 00:24:58,640

or or finding limited parking spaces for

681

00:25:02,710 --> 00:25:01,120

for tractor trailers or how they make

682

00:25:05,669 --> 00:25:02,720

sure they meet their hours of service

683

00:25:08,149 --> 00:25:05,679

well they need to be preparing as well

684

00:25:09,750 --> 00:25:08,159

that um favorite spots they may have for

685

00:25:11,590 --> 00:25:09,760

knowing where to find that little secret

686

00:25:13,750 --> 00:25:11,600

parking space along the way

687

00:25:16,230 --> 00:25:13,760

others may know about that as well so

688

00:25:18,390 --> 00:25:16,240

whether it's the public or the truckers

689

00:25:20,070 --> 00:25:18,400

plan ahead

690

00:25:22,230 --> 00:25:20,080

one thing to think about is

691

00:25:23,909 --> 00:25:22,240

this is occurring in august

692

00:25:26,390 --> 00:25:23,919

vacation time

693

00:25:28,549 --> 00:25:26,400

so rush hour traffic may be a little

694

00:25:30,070 --> 00:25:28,559

slower than normal because in these

695

00:25:31,750 --> 00:25:30,080

areas where there's places that have

696

00:25:33,110 --> 00:25:31,760

more people that are coming to enjoy

697

00:25:34,310 --> 00:25:33,120

this

698

00:25:36,390 --> 00:25:34,320

august

699

00:25:38,710 --> 00:25:36,400

is also probably if i ask the audience

700

00:25:40,310 --> 00:25:38,720

they would say construction season you

701
00:25:41,269 --> 00:25:40,320
know for helping to take care of the

702
00:25:43,110 --> 00:25:41,279
roads

703
00:25:44,710 --> 00:25:43,120
and we need to do that while keeping

704
00:25:47,269 --> 00:25:44,720
live traffic going a lot most of the

705
00:25:49,750 --> 00:25:47,279
state dlts are already preparing to have

706
00:25:51,430 --> 00:25:49,760
their work zones not be active during

707
00:25:52,630 --> 00:25:51,440
the eclipse to make it as safe as

708
00:25:54,390 --> 00:25:52,640
possible

709
00:25:57,269 --> 00:25:54,400
but you still see

710
00:25:59,110 --> 00:25:57,279
traffic devices like barrels or or uh

711
00:26:01,430 --> 00:25:59,120
changeable message boards that will help

712
00:26:03,750 --> 00:26:01,440
advise the public about what to expect

713
00:26:06,310 --> 00:26:03,760

for any potential construction hazards

714

00:26:08,149 --> 00:26:06,320

but work zones are are uh tough enough

715

00:26:10,950 --> 00:26:08,159

to keep people everyone alert and

716

00:26:11,909 --> 00:26:10,960

engaged for it so you may be coming

717

00:26:14,549 --> 00:26:11,919

upon

718

00:26:16,950 --> 00:26:14,559

speed limit reductions lanes that are

719

00:26:18,789 --> 00:26:16,960

closed lanes that are narrowed or moved

720

00:26:19,990 --> 00:26:18,799

so the things that you see normally

721

00:26:22,710 --> 00:26:20,000

we're trying to mitigate that as

722

00:26:25,029 --> 00:26:22,720

possible as much as possible

723

00:26:26,710 --> 00:26:25,039

if we pull up the last graphic here but

724

00:26:28,390 --> 00:26:26,720

what we need is always be alert and be

725

00:26:30,870 --> 00:26:28,400

conscientious drivers

726
00:26:34,470 --> 00:26:30,880
don't let this solar phenomenon eclipse

727
00:26:37,990 --> 00:26:35,669
you know there is a concern for

728
00:26:39,830 --> 00:26:38,000
distracted driving we have that without

729
00:26:41,430 --> 00:26:39,840
the eclipse the eclipse is certainly a

730
00:26:42,950 --> 00:26:41,440
wonderful thing that's going to capture

731
00:26:45,669 --> 00:26:42,960
our attention we want to be as safe as

732
00:26:48,470 --> 00:26:45,679
possible so if you get one message out

733
00:26:50,230 --> 00:26:48,480
of this is prepare in advance don't do

734
00:26:51,590 --> 00:26:50,240
it on the spur of the moment

735
00:26:54,310 --> 00:26:51,600
we lose way too many lives on the

736
00:26:56,230 --> 00:26:54,320
highways already and and we want to make

737
00:26:59,110 --> 00:26:56,240
sure that this runs perfectly and people

738
00:27:00,950 --> 00:26:59,120

enjoy this this event a few tips you can

739

00:27:03,269 --> 00:27:00,960

get them also on our website

740

00:27:04,950 --> 00:27:03,279

but you heard me earlier don't stop

741

00:27:06,230 --> 00:27:04,960

along the interstate

742

00:27:07,750 --> 00:27:06,240

you know don't drive with your head

743

00:27:09,190 --> 00:27:07,760

poking out of the window don't just pull

744

00:27:10,310 --> 00:27:09,200

over you've got pedestrians and others

745

00:27:12,789 --> 00:27:10,320

that are out there

746

00:27:15,750 --> 00:27:12,799

be careful if everyone

747

00:27:17,350 --> 00:27:15,760

is driving staring up at the sky and

748

00:27:19,190 --> 00:27:17,360

everyone on the side of the road is

749

00:27:21,029 --> 00:27:19,200

staring up at the sky

750

00:27:22,310 --> 00:27:21,039

then who's looking out for each other

751
00:27:23,590 --> 00:27:22,320
you know we're looking at a wonderful

752
00:27:25,190 --> 00:27:23,600
event but we need to take care of each

753
00:27:26,870 --> 00:27:25,200
other along the way

754
00:27:27,909 --> 00:27:26,880
turn your headlights on don't rely on

755
00:27:29,830 --> 00:27:27,919
automatic

756
00:27:31,590 --> 00:27:29,840
uh lights to come on

757
00:27:33,350 --> 00:27:31,600
and and as i said watch out for

758
00:27:36,310 --> 00:27:33,360
pedestrians

759
00:27:39,269 --> 00:27:36,320
finally as always buckle up

760
00:27:41,029 --> 00:27:39,279
put the cell phone in the glove box you

761
00:27:43,190 --> 00:27:41,039
don't need to be talking on the phone

762
00:27:45,269 --> 00:27:43,200
i've gone seven years without having a

763
00:27:47,669 --> 00:27:45,279

phone call while driving and the first

764

00:27:50,549 --> 00:27:47,679

two weeks was maybe a little itchy but

765

00:27:52,789 --> 00:27:50,559

after that i haven't missed that at all

766

00:27:55,510 --> 00:27:52,799

you know so my advice take back peace of

767

00:27:57,750 --> 00:27:55,520

mind that you that you want take back

768

00:27:59,830 --> 00:27:57,760

full control uh of your mind and

769

00:28:02,710 --> 00:27:59,840

attention from distraction so

770

00:28:03,750 --> 00:28:02,720

make this a great event be safe and and

771

00:28:06,310 --> 00:28:03,760

on behalf of the federal highway

772

00:28:07,909 --> 00:28:06,320

administration thank you very much

773

00:28:10,070 --> 00:28:07,919

well thank you and if you're just

774

00:28:12,310 --> 00:28:10,080

joining us we're coming to you live from

775

00:28:14,630 --> 00:28:12,320

the museum here in the nation's capitol

776

00:28:16,710 --> 00:28:14,640

and this is our first of two briefings

777

00:28:20,149 --> 00:28:16,720

to talk about the upcoming total solar

778

00:28:22,630 --> 00:28:20,159

eclipse across america on august 21. we

779

00:28:24,710 --> 00:28:22,640

are now going to transition into

780

00:28:27,590 --> 00:28:24,720

question and answers we have a number of

781

00:28:29,669 --> 00:28:27,600

folks on the phone social media and of

782

00:28:31,669 --> 00:28:29,679

course media here

783

00:28:34,870 --> 00:28:31,679

again we have a second briefing coming

784

00:28:37,110 --> 00:28:34,880

up to get more deep dive and more

785

00:28:40,549 --> 00:28:37,120

specific on the science this is about

786

00:28:43,430 --> 00:28:40,559

preparation and the assets to bring you

787

00:28:46,389 --> 00:28:43,440

a wealth of images and data both before

788

00:28:48,870 --> 00:28:46,399

during and after the august eclipse so

789

00:28:51,029 --> 00:28:48,880

what we'd like to do is um

790

00:28:52,789 --> 00:28:51,039

see a hand if you can wait for the mic

791

00:28:58,950 --> 00:28:52,799

and

792

00:29:00,549 --> 00:28:58,960

seth bornstein associated press for

793

00:29:01,590 --> 00:29:00,559

martin kopp

794

00:29:04,470 --> 00:29:01,600

you said

795

00:29:06,549 --> 00:29:04,480

most states are going to be

796

00:29:09,669 --> 00:29:06,559

putting work zones

797

00:29:12,149 --> 00:29:09,679

uh aside during the eclipse

798

00:29:14,230 --> 00:29:12,159

what states have not responded yet or

799

00:29:15,669 --> 00:29:14,240

are not going to be doing that and what

800

00:29:17,190 --> 00:29:15,679

time period are you talking because

801
00:29:19,269 --> 00:29:17,200
there are a lot of eclipse chasers who

802
00:29:21,029 --> 00:29:19,279
are going to i mean it's not the time of

803
00:29:23,750 --> 00:29:21,039
the eclipse it's sort of the several

804
00:29:26,549 --> 00:29:23,760
hours beforehand so that day i think

805
00:29:28,950 --> 00:29:26,559
it's a sunday right or a what

806
00:29:30,710 --> 00:29:28,960
are you looking at the entire day of

807
00:29:31,669 --> 00:29:30,720
work free zones for these places what

808
00:29:33,430 --> 00:29:31,679
are your rec what are the

809
00:29:36,230 --> 00:29:33,440
recommendations of the highway

810
00:29:38,870 --> 00:29:36,240
administration and uh what what states

811
00:29:40,549 --> 00:29:38,880
are not doing it great uh great question

812
00:29:42,149 --> 00:29:40,559
right at this point we haven't gathered

813
00:29:43,269 --> 00:29:42,159

all the information to know which states

814

00:29:44,389 --> 00:29:43,279

because they're still working on their

815

00:29:45,750 --> 00:29:44,399

plans

816

00:29:48,310 --> 00:29:45,760

and and you're right they're looking at

817

00:29:50,230 --> 00:29:48,320

not just covering the two minutes plus

818

00:29:52,389 --> 00:29:50,240

of the eclipse but to help make sure

819

00:29:53,909 --> 00:29:52,399

that the travelers that are going there

820

00:29:56,149 --> 00:29:53,919

on special events whether it's over the

821

00:29:57,909 --> 00:29:56,159

weekend i do need to clarify that

822

00:29:59,990 --> 00:29:57,919

they're not they're not

823

00:30:01,510 --> 00:30:00,000

getting rid of their work zones you know

824

00:30:03,350 --> 00:30:01,520

it's hard to do when you've got

825

00:30:04,789 --> 00:30:03,360

different pieces of the infrastructure

826

00:30:06,470 --> 00:30:04,799

under work what they're not going to do

827

00:30:08,230 --> 00:30:06,480

is have it active

828

00:30:09,669 --> 00:30:08,240

so we're still working at getting

829

00:30:11,750 --> 00:30:09,679

accounting to understand what their

830

00:30:14,070 --> 00:30:11,760

needs are and which ones are doing that

831

00:30:16,549 --> 00:30:14,080

that's why right now at this point be

832

00:30:17,990 --> 00:30:16,559

tied into the the websites for those

833

00:30:19,190 --> 00:30:18,000

state dots

834

00:30:20,470 --> 00:30:19,200

and they're not wanting to get in the

835

00:30:22,549 --> 00:30:20,480

way they want to keep you safe and they

836

00:30:23,909 --> 00:30:22,559

want to keep you moving so

837

00:30:25,830 --> 00:30:23,919

that's that's the information that we

838

00:30:27,510 --> 00:30:25,840

have at this point

839

00:30:29,510 --> 00:30:27,520

okay we have all the answers i mean our

840

00:30:33,510 --> 00:30:29,520

hands and we'll provide answers and also

841

00:30:37,110 --> 00:30:33,520

on social media uh hashtag eclipse2017

842

00:30:38,950 --> 00:30:37,120

and i see a hand here

843

00:30:41,110 --> 00:30:38,960

wait for the mic and name and

844

00:30:43,590 --> 00:30:41,120

affiliation please

845

00:30:44,950 --> 00:30:43,600

hi hanukkah widening with space.com um

846

00:30:46,870 --> 00:30:44,960

so i've heard rumors that this is going

847

00:30:49,190 --> 00:30:46,880

to be the most watched eclipse in

848

00:30:54,789 --> 00:30:49,200

history i'm wondering if you agree with

849

00:30:59,190 --> 00:30:57,830

okay those assertions are always very

850

00:31:01,350 --> 00:30:59,200

hard to prove because we don't have

851
00:31:02,789 --> 00:31:01,360
really good numbers on any one of them i

852
00:31:04,630 --> 00:31:02,799
think it's definitely one of the top

853
00:31:06,630 --> 00:31:04,640
candidates if not the most watched

854
00:31:08,950 --> 00:31:06,640
eclipse if you take all the vantage

855
00:31:10,470 --> 00:31:08,960
points all the assets together and all

856
00:31:12,310 --> 00:31:10,480
the channels we're going to put out it's

857
00:31:14,230 --> 00:31:12,320
going to be hard to beat frankly i mean

858
00:31:15,909 --> 00:31:14,240
it's kind of these kind of story go in

859
00:31:18,230 --> 00:31:15,919
the billions right away

860
00:31:20,470 --> 00:31:18,240
and so uh just with just the nasa

861
00:31:22,149 --> 00:31:20,480
network itself and then uh there are all

862
00:31:24,230 --> 00:31:22,159
the other networks that are uh coming

863
00:31:26,149 --> 00:31:24,240

and i think will be hard to beat so my

864

00:31:27,750 --> 00:31:26,159

personal feeling is it will be the most

865

00:31:29,509 --> 00:31:27,760

watched but i can't prove that

866

00:31:31,029 --> 00:31:29,519

scientifically

867

00:31:32,630 --> 00:31:31,039

uh we're gonna go to the phone lines but

868

00:31:35,430 --> 00:31:32,640

let's take one more question do we have

869

00:31:37,029 --> 00:31:35,440

here in the audience if not we will go

870

00:31:45,190 --> 00:31:37,039

to the phone lines

871

00:31:45,200 --> 00:31:49,509

we have alan on the phone

872

00:31:54,310 --> 00:31:52,149

okay let's see if we can do a little

873

00:31:55,590 --> 00:31:54,320

turn yes let's go social media we're

874

00:31:57,430 --> 00:31:55,600

starting to hear there's a lot of chat

875

00:31:59,110 --> 00:31:57,440

on there so i'm gonna go to my colleague

876

00:32:02,549 --> 00:31:59,120

over at the social media desk jason

877

00:32:03,830 --> 00:32:02,559

townsend jason uh what's the uh

878

00:32:05,350 --> 00:32:03,840

the crowd talking about across the

879

00:32:06,630 --> 00:32:05,360

country thanks dwayne there's definitely

880

00:32:08,149 --> 00:32:06,640

a lot of excitement out there but some

881

00:32:11,190 --> 00:32:08,159

folks want to know a couple things uh

882

00:32:17,110 --> 00:32:11,200

first off uh twitter user b asks where

883

00:32:23,430 --> 00:32:21,029

at the eclipse 2017.nasa.gov

884

00:32:25,509 --> 00:32:23,440

website has a number of contact

885

00:32:27,750 --> 00:32:25,519

pieces of contact information there's

886

00:32:29,909 --> 00:32:27,760

also actually through the stem

887

00:32:31,590 --> 00:32:29,919

activation programs at nasa some of

888

00:32:34,470 --> 00:32:31,600

these classes have been distributed

889

00:32:37,830 --> 00:32:34,480

through libraries through a series of

890

00:32:40,149 --> 00:32:37,840

organizations but you know if you cannot

891

00:32:42,149 --> 00:32:40,159

find the answer around your neighborhood

892

00:32:44,389 --> 00:32:42,159

do contact us over the website and we'll

893

00:32:46,630 --> 00:32:44,399

help you find that and let me also ask

894

00:32:49,190 --> 00:32:46,640

it's my understanding that over 5 000

895

00:32:51,509 --> 00:32:49,200

libraries across the country

896

00:32:53,350 --> 00:32:51,519

i have the glasses so

897

00:32:55,669 --> 00:32:53,360

across the country your libraries check

898

00:32:57,590 --> 00:32:55,679

those out and as thomas said go to the

899

00:32:59,190 --> 00:32:57,600

websites but check out your libraries 5

900

00:33:01,590 --> 00:32:59,200

000 across the country

901
00:33:03,509 --> 00:33:01,600
one more jason wonderful next question

902
00:33:05,750 --> 00:33:03,519
here comes from facebook user michael

903
00:33:10,230 --> 00:33:05,760
who asks when the eclipse happens does

904
00:33:15,509 --> 00:33:12,710
so at the eclipse is truly

905
00:33:17,830 --> 00:33:15,519
uh an event that is all about the

906
00:33:19,590 --> 00:33:17,840
vantage points the sun if i was in space

907
00:33:21,590 --> 00:33:19,600
and with the spacecraft looking at the

908
00:33:24,149 --> 00:33:21,600
sun outside of the earth there's

909
00:33:25,669 --> 00:33:24,159
absolutely no indication of the eclipse

910
00:33:27,750 --> 00:33:25,679
so basically what happens of course the

911
00:33:29,909 --> 00:33:27,760
sun itself is the sun now what's

912
00:33:32,149 --> 00:33:29,919
happening though if i'm on the ground

913
00:33:34,789 --> 00:33:32,159

and i basically feel the temperature of

914

00:33:37,029 --> 00:33:34,799

the sun on my skin because of the fact

915

00:33:39,269 --> 00:33:37,039

that the sun disappears and it's getting

916

00:33:41,029 --> 00:33:39,279

you know it's getting dark yes it will

917

00:33:44,230 --> 00:33:41,039

feel like it's cool but it's entirely a

918

00:33:47,269 --> 00:33:44,240

perception because of the shadow cone of

919

00:33:49,269 --> 00:33:47,279

the moon being right on top of us so the

920

00:33:52,070 --> 00:33:49,279

sun will not know about the eclipse but

921

00:33:53,190 --> 00:33:52,080

you will

922

00:33:54,710 --> 00:33:53,200

okay jason we're going to go to the

923

00:33:56,310 --> 00:33:54,720

phones and i'll come back to you so

924

00:33:59,750 --> 00:33:56,320

let's go back to our phone lines and i

925

00:34:01,909 --> 00:33:59,760

believe we have wtop greg

926
00:34:04,070 --> 00:34:01,919
all right good afternoon and thank you

927
00:34:06,630 --> 00:34:04,080
so much for this great event i basically

928
00:34:08,550 --> 00:34:06,640
had two quick questions uh for

929
00:34:10,389 --> 00:34:08,560
department of transportation

930
00:34:12,550 --> 00:34:10,399
where do you expect the largest

931
00:34:14,869 --> 00:34:12,560
congregation of people

932
00:34:17,829 --> 00:34:14,879
to be just so our listeners can be aware

933
00:34:20,710 --> 00:34:17,839
of that and secondly for nasa

934
00:34:23,829 --> 00:34:20,720
if it is cloudy based upon noaa's

935
00:34:25,909 --> 00:34:23,839
predictions where can people tune in to

936
00:34:28,389 --> 00:34:25,919
see the live coverage of the event and

937
00:34:31,349 --> 00:34:28,399
thank you very much

938
00:34:33,030 --> 00:34:31,359

for the first part of that good question

939

00:34:35,190 --> 00:34:33,040

you know we're taking that in we know

940

00:34:37,510 --> 00:34:35,200

that nashville is likely the largest

941

00:34:38,629 --> 00:34:37,520

metropolitan area that's in the direct

942

00:34:40,710 --> 00:34:38,639

path

943

00:34:42,470 --> 00:34:40,720

so how much they have to travel

944

00:34:43,990 --> 00:34:42,480

you know within nashville or those that

945

00:34:46,230 --> 00:34:44,000

are trying to go to nashville there's

946

00:34:47,510 --> 00:34:46,240

also though some places that want to be

947

00:34:51,909 --> 00:34:47,520

out of

948

00:34:55,109 --> 00:34:51,919

the national parks and others where they

949

00:34:57,430 --> 00:34:55,119

can get a a splendid view there

950

00:34:59,349 --> 00:34:57,440

so i'm looking at stephen lovren's from

951
00:35:02,310 --> 00:34:59,359
the center of excellence do you have any

952
00:35:03,829 --> 00:35:02,320
uh additional information stephen no i

953
00:35:06,870 --> 00:35:03,839
mean i think that's

954
00:35:10,550 --> 00:35:08,069
thanks

955
00:35:13,349 --> 00:35:10,560
that's about the same information that

956
00:35:14,870 --> 00:35:13,359
we have i'm not sure this is on but um

957
00:35:16,550 --> 00:35:14,880
yeah i mean pretty much anywhere along

958
00:35:18,230 --> 00:35:16,560
the path of totality is going to see a

959
00:35:19,990 --> 00:35:18,240
lot of people i mean the transportation

960
00:35:21,270 --> 00:35:20,000
agencies that we've been working with

961
00:35:23,190 --> 00:35:21,280
you know they're working with local

962
00:35:25,589 --> 00:35:23,200
businesses and hotels and i found that a

963
00:35:27,270 --> 00:35:25,599

lot of places along the entire path you

964

00:35:29,750 --> 00:35:27,280

know hotels have been booked out for two

965

00:35:31,589 --> 00:35:29,760

years in advance i mean sold out for for

966

00:35:32,870 --> 00:35:31,599

years in advance and so i think pretty

967

00:35:33,829 --> 00:35:32,880

much anywhere you go there's going to be

968

00:35:36,550 --> 00:35:33,839

a good bet that you're going to be

969

00:35:38,390 --> 00:35:36,560

facing some pretty significant crowds

970

00:35:40,630 --> 00:35:38,400

thank you i want to answer the second

971

00:35:42,069 --> 00:35:40,640

question i'll answer the first one the

972

00:35:43,990 --> 00:35:42,079

first half and then kick it over to

973

00:35:45,510 --> 00:35:44,000

dwayne here but uh

974

00:35:47,670 --> 00:35:45,520

first of all

975

00:35:50,630 --> 00:35:47,680

with nasa with all these vantage points

976
00:35:52,950 --> 00:35:50,640
we will provide a non-stop view of the

977
00:35:55,190 --> 00:35:52,960
of the solar eclipse kind of from the

978
00:35:57,510 --> 00:35:55,200
west to the east through a variety of

979
00:35:59,589 --> 00:35:57,520
assets we actually have i'll tell you

980
00:36:02,310 --> 00:35:59,599
i'm going to be in an airplane right off

981
00:36:03,430 --> 00:36:02,320
the coast of oregon and to really start

982
00:36:06,870 --> 00:36:03,440
this off

983
00:36:09,349 --> 00:36:06,880
as the shadow is really hitting the

984
00:36:11,270 --> 00:36:09,359
coast we will then have balloons we have

985
00:36:13,270 --> 00:36:11,280
aircraft and we have of course

986
00:36:15,349 --> 00:36:13,280
ground-based and space-based-based

987
00:36:18,950 --> 00:36:15,359
assets that will make this available

988
00:36:20,870 --> 00:36:18,960

non-stop talk about nasa tv well again

989

00:36:22,069 --> 00:36:20,880

if we can put up the uh websites uh

990

00:36:23,829 --> 00:36:22,079

commit this to memory ladies and

991

00:36:26,870 --> 00:36:23,839

gentlemen across the country

992

00:36:30,470 --> 00:36:26,880

nasa.gov slash eclipse live that will be

993

00:36:32,870 --> 00:36:30,480

where the nasa broadcast will be

994

00:36:36,950 --> 00:36:32,880

we will have all types of other content

995

00:36:39,510 --> 00:36:36,960

spanish content nasa.gov eclipselive

996

00:36:41,349 --> 00:36:39,520

get that locked into memory and again if

997

00:36:44,310 --> 00:36:41,359

you want to go through eclipse through a

998

00:36:46,790 --> 00:36:44,320

through z eclipse2017.nasa.gov

999

00:36:50,630 --> 00:36:46,800

everything you need to know about it but

1000

00:36:53,190 --> 00:36:50,640

on august 21 nasa.gov eclipselive for

1001
00:36:55,109 --> 00:36:53,200
the program live content and if you want

1002
00:36:58,230 --> 00:36:55,119
to see it through the eyes of nasa

1003
00:37:01,589 --> 00:36:58,240
eclipse live if the way to go

1004
00:37:04,069 --> 00:37:01,599
next on our phone alan

1005
00:37:07,030 --> 00:37:04,079
yes hi sorry about that mute button

1006
00:37:09,510 --> 00:37:07,040
i wanted to ask whether you really are

1007
00:37:11,910 --> 00:37:09,520
prepared for the crowds i can imagine

1008
00:37:14,870 --> 00:37:11,920
people actually camping out on the side

1009
00:37:17,030 --> 00:37:14,880
of the interstate or or jamming up the

1010
00:37:19,270 --> 00:37:17,040
roads not only interstate but also local

1011
00:37:21,349 --> 00:37:19,280
roads uh is the department of

1012
00:37:23,750 --> 00:37:21,359
transportation getting out the word and

1013
00:37:25,829 --> 00:37:23,760

are there any particular things that are

1014

00:37:27,589 --> 00:37:25,839

being done to to

1015

00:37:29,190 --> 00:37:27,599

anticipate what might be a big traffic

1016

00:37:30,710 --> 00:37:29,200

jam

1017

00:37:32,470 --> 00:37:30,720

you know i'm trying not to imagine

1018

00:37:34,470 --> 00:37:32,480

people out alongside the interstates as

1019

00:37:35,750 --> 00:37:34,480

well so hopefully that doesn't come to

1020

00:37:37,910 --> 00:37:35,760

fruition that's one reason why

1021

00:37:39,670 --> 00:37:37,920

graciously we're happy to be here with

1022

00:37:41,670 --> 00:37:39,680

with the other panel members to help get

1023

00:37:42,790 --> 00:37:41,680

the message out the state dots are

1024

00:37:45,750 --> 00:37:42,800

preparing

1025

00:37:48,630 --> 00:37:45,760

public information campaigns beyond just

1026
00:37:50,950 --> 00:37:48,640
posting things on a website and they are

1027
00:37:52,870 --> 00:37:50,960
going to be preparing for the areas that

1028
00:37:54,870 --> 00:37:52,880
they can at least take the greatest

1029
00:37:56,069 --> 00:37:54,880
priority for where they think people may

1030
00:37:57,750 --> 00:37:56,079
be going

1031
00:38:00,150 --> 00:37:57,760
so we're trying to get the message out

1032
00:38:01,750 --> 00:38:00,160
to everyone it's important as i said

1033
00:38:03,510 --> 00:38:01,760
that you don't just go in the spur of

1034
00:38:05,109 --> 00:38:03,520
the moment say hey let's let's you know

1035
00:38:07,109 --> 00:38:05,119
drive up and take a look at this thing

1036
00:38:08,150 --> 00:38:07,119
pull over on the interstate

1037
00:38:09,750 --> 00:38:08,160
um

1038
00:38:12,150 --> 00:38:09,760

right now there there is controlled

1039

00:38:14,310 --> 00:38:12,160

access to the interstates and the state

1040

00:38:16,550 --> 00:38:14,320

duties are responsible for that and and

1041

00:38:19,270 --> 00:38:16,560

they're working on plans to try to help

1042

00:38:21,030 --> 00:38:19,280

make sure people are safe

1043

00:38:22,630 --> 00:38:21,040

okay we're gonna go back to social but

1044

00:38:25,270 --> 00:38:22,640

again and i'm gonna sound like a broken

1045

00:38:26,710 --> 00:38:25,280

record for folks on nasa.gov slash

1046

00:38:28,710 --> 00:38:26,720

eclipse live

1047

00:38:30,950 --> 00:38:28,720

the nasa through your eyes through the

1048

00:38:33,109 --> 00:38:30,960

eyes of nasa's show but also the web

1049

00:38:35,750 --> 00:38:33,119

content there a lot of interactive

1050

00:38:37,510 --> 00:38:35,760

activities go there we have a video that

1051

00:38:39,670 --> 00:38:37,520

we'll show that will sow all of the

1052

00:38:42,950 --> 00:38:39,680

bells and whistles there but commit the

1053

00:38:45,670 --> 00:38:42,960

memory if you can nasa.gov eclipselive

1054

00:38:48,069 --> 00:38:45,680

live television internet and everything

1055

00:38:49,510 --> 00:38:48,079

else in between jason

1056

00:38:51,829 --> 00:38:49,520

so this next question comes from twitter

1057

00:38:53,430 --> 00:38:51,839

user joseph who asks what concerns or

1058

00:38:55,670 --> 00:38:53,440

precautions should we take with very

1059

00:39:01,990 --> 00:38:55,680

small children maybe three and under uh

1060

00:39:05,270 --> 00:39:03,270

well so

1061

00:39:06,230 --> 00:39:05,280

my kids are no longer small

1062

00:39:08,710 --> 00:39:06,240

so

1063

00:39:10,470 --> 00:39:08,720

but i remember kind of looking at uh

1064

00:39:13,910 --> 00:39:10,480

things like that what i would be

1065

00:39:15,990 --> 00:39:13,920

absolutely sure about is as tweeter uh

1066

00:39:18,150 --> 00:39:16,000

make sure that the type of eye

1067

00:39:19,670 --> 00:39:18,160

protection that is there you know is is

1068

00:39:22,069 --> 00:39:19,680

clearly uh

1069

00:39:24,069 --> 00:39:22,079

on top of the eyes of of the children

1070

00:39:26,470 --> 00:39:24,079

and and really actually practice ahead

1071

00:39:28,550 --> 00:39:26,480

of it you know so the kids really get

1072

00:39:30,550 --> 00:39:28,560

used to it so they understand that's how

1073

00:39:32,310 --> 00:39:30,560

it feels and yeah it's supposed to be

1074

00:39:34,630 --> 00:39:32,320

dark and you know you can you can

1075

00:39:36,950 --> 00:39:34,640

practice with the sun out uh the other

1076

00:39:40,150 --> 00:39:36,960

thing also is that uh if you're out

1077

00:39:42,230 --> 00:39:40,160

there for quite a while let's say in the

1078

00:39:44,870 --> 00:39:42,240

in the west you know uh the sun is

1079

00:39:47,109 --> 00:39:44,880

really burning down on you so be sure

1080

00:39:49,910 --> 00:39:47,119

that your skin is protected especially

1081

00:39:52,710 --> 00:39:49,920

the skin of uh smaller children that as

1082

00:39:54,790 --> 00:39:52,720

you know is so sensitive and also uh be

1083

00:39:57,589 --> 00:39:54,800

sure that you bring enough water and

1084

00:39:59,589 --> 00:39:57,599

make sure you you know you you stay uh

1085

00:40:01,430 --> 00:39:59,599

you know you stay kind of healthy as

1086

00:40:04,150 --> 00:40:01,440

you're out there and and really take

1087

00:40:06,390 --> 00:40:04,160

this in so again um

1088

00:40:07,910 --> 00:40:06,400

protect the eyes really diligently

1089

00:40:10,470 --> 00:40:07,920

practice it

1090

00:40:12,150 --> 00:40:10,480

protect your skin and stay hydrated

1091

00:40:14,710 --> 00:40:12,160

and i want to remind our viewers that at

1092

00:40:16,230 --> 00:40:14,720

2 30 we will have scientists that would

1093

00:40:18,309 --> 00:40:16,240

be talking about

1094

00:40:21,510 --> 00:40:18,319

many ways to be safe they work with

1095

00:40:23,589 --> 00:40:21,520

young kids of all ages stay tuned watch

1096

00:40:25,910 --> 00:40:23,599

out and we have that question answered

1097

00:40:27,430 --> 00:40:25,920

uh to complement thomas's so don't miss

1098

00:40:29,349 --> 00:40:27,440

the scientists coming up you'll be

1099

00:40:30,790 --> 00:40:29,359

pretty amazed at some of the things and

1100

00:40:32,950 --> 00:40:30,800

how you can protect but also some

1101
00:40:34,870 --> 00:40:32,960
creative ways to look at the eclipse

1102
00:40:36,710 --> 00:40:34,880
safely we're gonna

1103
00:40:38,390 --> 00:40:36,720
take one more social and then we're

1104
00:40:39,430 --> 00:40:38,400
gonna go to the phone

1105
00:40:41,270 --> 00:40:39,440
all right this question comes from

1106
00:40:42,630 --> 00:40:41,280
twitter user ben who asks how can

1107
00:40:44,950 --> 00:40:42,640
watching the eclipse at different

1108
00:40:51,030 --> 00:40:44,960
altitudes especially in and on mountains

1109
00:41:00,069 --> 00:40:54,230
what do you think park ranger

1110
00:41:03,589 --> 00:41:00,950
from a

1111
00:41:06,150 --> 00:41:03,599
physics standpoint i'm not sure that the

1112
00:41:07,910 --> 00:41:06,160
cone of the moon through the shadow the

1113
00:41:09,910 --> 00:41:07,920

totality is going to be all that much

1114

00:41:12,230 --> 00:41:09,920

difference with any elevation gain you

1115

00:41:13,910 --> 00:41:12,240

might be able to achieve

1116

00:41:15,510 --> 00:41:13,920

that might be different than an airplane

1117

00:41:16,950 --> 00:41:15,520

perhaps

1118

00:41:18,790 --> 00:41:16,960

but in terms of what you could

1119

00:41:21,030 --> 00:41:18,800

experience by going up or down a

1120

00:41:21,910 --> 00:41:21,040

mountain within a park or other public

1121

00:41:25,670 --> 00:41:21,920

lands

1122

00:41:27,670 --> 00:41:25,680

uh probably be pretty minimal

1123

00:41:30,230 --> 00:41:27,680

is that a satisfactory answer from a

1124

00:41:32,710 --> 00:41:30,240

scientific standpoint

1125

00:41:34,710 --> 00:41:32,720

as you know like i'm totally faking it i

1126

00:41:37,030 --> 00:41:34,720

already told you that

1127

00:41:38,790 --> 00:41:37,040

that that i've not uh i've not

1128

00:41:40,630 --> 00:41:38,800

experienced it myself growing up in the

1129

00:41:43,030 --> 00:41:40,640

mountains though i think the one thing i

1130

00:41:45,990 --> 00:41:43,040

would say is like okay so the geometry

1131

00:41:47,349 --> 00:41:46,000

relative to uh to the moon and relative

1132

00:41:49,270 --> 00:41:47,359

to the sun of course will not

1133

00:41:51,430 --> 00:41:49,280

significantly change what will change is

1134

00:41:53,750 --> 00:41:51,440

your perspective so basically what you

1135

00:41:55,589 --> 00:41:53,760

will see uh standing up on on that

1136

00:41:57,589 --> 00:41:55,599

mountain you'll see the shadow cone

1137

00:41:59,589 --> 00:41:57,599

hitting the value yeah and at the valley

1138

00:42:02,870 --> 00:41:59,599

and you so you know what you see

1139

00:42:05,190 --> 00:42:02,880

is is a much broader perspective of of

1140

00:42:07,430 --> 00:42:05,200

the the kind of impact that this

1141

00:42:09,109 --> 00:42:07,440

transition has just as opposed to you

1142

00:42:11,670 --> 00:42:09,119

know being in a flat place you'll see

1143

00:42:13,030 --> 00:42:11,680

down and up and i think that's just a

1144

00:42:16,069 --> 00:42:13,040

unique thing for a guy grew up on a

1145

00:42:17,510 --> 00:42:16,079

mountain that's where you want to be and

1146

00:42:19,270 --> 00:42:17,520

brian you know you've got the cool

1147

00:42:21,109 --> 00:42:19,280

uniform on so whatever answer you give

1148

00:42:23,109 --> 00:42:21,119

it's pretty good

1149

00:42:24,550 --> 00:42:23,119

okay let's go back to the phones and i

1150

00:42:33,829 --> 00:42:24,560

believe we have the washington post uh

1151
00:42:37,270 --> 00:42:35,589
so i'm actually a freelancer who's

1152
00:42:38,950 --> 00:42:37,280
writing with the washington post and

1153
00:42:40,790 --> 00:42:38,960
other publications

1154
00:42:42,950 --> 00:42:40,800
so with this particular question i'd

1155
00:42:45,510 --> 00:42:42,960
like to chat really quick about crowd

1156
00:42:47,430 --> 00:42:45,520
sizes we have an awful lot of small

1157
00:42:49,670 --> 00:42:47,440
towns across america that are all

1158
00:42:51,910 --> 00:42:49,680
expecting a hundred thousand people or

1159
00:42:53,990 --> 00:42:51,920
so so when we look at my understanding

1160
00:42:56,150 --> 00:42:54,000
the crown sizes have been estimated off

1161
00:42:58,309 --> 00:42:56,160
of the numbers of eclipse chasers and

1162
00:42:59,190 --> 00:42:58,319
tourists for similar eclipses in the

1163
00:43:01,670 --> 00:42:59,200

past

1164

00:43:04,710 --> 00:43:01,680

so what is a more realistic number or is

1165

00:43:06,470 --> 00:43:04,720

it realistic for each small town that's

1166

00:43:08,230 --> 00:43:06,480

one county over from the other small

1167

00:43:12,069 --> 00:43:08,240

town to all be expecting a hundred

1168

00:43:15,109 --> 00:43:13,430

from the

1169

00:43:17,589 --> 00:43:15,119

uh federal highway administration's

1170

00:43:19,430 --> 00:43:17,599

point of view the state dots are working

1171

00:43:20,790 --> 00:43:19,440

with the communities especially you know

1172

00:43:22,150 --> 00:43:20,800

it's easier when we see communities that

1173

00:43:23,589 --> 00:43:22,160

are saying hey we want to have a

1174

00:43:24,710 --> 00:43:23,599

festival we want to make it a long

1175

00:43:26,870 --> 00:43:24,720

weekend

1176

00:43:30,150 --> 00:43:26,880

um it's easier for state depts to be

1177

00:43:32,069 --> 00:43:30,160

able to be planting with them

1178

00:43:33,990 --> 00:43:32,079

i think the big question is

1179

00:43:35,829 --> 00:43:34,000

there's not unlimited number of people

1180

00:43:37,829 --> 00:43:35,839

working at state d.o.t so they need to

1181

00:43:39,670 --> 00:43:37,839

be able to know and predict where they

1182

00:43:40,950 --> 00:43:39,680

need to put their their people best

1183

00:43:43,750 --> 00:43:40,960

stationed

1184

00:43:45,270 --> 00:43:43,760

for information on on federal highway

1185

00:43:47,510 --> 00:43:45,280

administration's website we do have

1186

00:43:49,190 --> 00:43:47,520

information about

1187

00:43:51,270 --> 00:43:49,200

how to put together planned special

1188

00:43:53,190 --> 00:43:51,280

events things that we can see coming in

1189

00:43:54,550 --> 00:43:53,200

advance and what are some good practices

1190

00:43:56,309 --> 00:43:54,560

and checklists

1191

00:43:58,470 --> 00:43:56,319

in fact my one of my colleagues just

1192

00:43:59,990 --> 00:43:58,480

retired from us laurie raydau she's an

1193

00:44:01,829 --> 00:44:00,000

expert in planned special events she's

1194

00:44:04,150 --> 00:44:01,839

here in the audience and

1195

00:44:05,990 --> 00:44:04,160

and helped put together the information

1196

00:44:07,670 --> 00:44:06,000

and so that would be one source that i

1197

00:44:09,270 --> 00:44:07,680

would say the communities for free can

1198

00:44:10,470 --> 00:44:09,280

go to the federal highway administration

1199

00:44:12,309 --> 00:44:10,480

website

1200

00:44:15,109 --> 00:44:12,319

and look up information about planned

1201
00:44:17,270 --> 00:44:15,119
special events and use the information

1202
00:44:18,710 --> 00:44:17,280
that's there to help find out

1203
00:44:21,589 --> 00:44:18,720
what things they thought about what

1204
00:44:23,510 --> 00:44:21,599
things they they haven't

1205
00:44:26,309 --> 00:44:23,520
okay we've got about 10 minutes i'm

1206
00:44:27,670 --> 00:44:26,319
gonna come back here to the museum for

1207
00:44:29,829 --> 00:44:27,680
questions and then we'll go back to

1208
00:44:31,430 --> 00:44:29,839
social and the phone a reminder to our

1209
00:44:34,150 --> 00:44:31,440
viewers we're going to have a brief

1210
00:44:35,270 --> 00:44:34,160
intermission don't change that station

1211
00:44:36,470 --> 00:44:35,280
lots of

1212
00:44:39,109 --> 00:44:36,480
interesting and important vital

1213
00:44:41,190 --> 00:44:39,119

information on reviewing the eclipse

1214

00:44:44,309 --> 00:44:41,200

safely and other types of things and

1215

00:44:46,390 --> 00:44:44,319

then 2 30 the scientists are coming uh

1216

00:44:48,390 --> 00:44:46,400

you don't want to miss that and and many

1217

00:44:50,230 --> 00:44:48,400

of the questions that that we're hearing

1218

00:44:52,390 --> 00:44:50,240

that you want answered say those for

1219

00:44:54,150 --> 00:44:52,400

that 2 30 show so any

1220

00:44:57,510 --> 00:44:54,160

folks here in the

1221

00:45:03,510 --> 00:44:57,520

studio audience or do we go back to

1222

00:45:08,790 --> 00:45:06,710

all right then um so user veronica on

1223

00:45:14,069 --> 00:45:08,800

twitter is asking can we see the eclipse

1224

00:45:19,030 --> 00:45:16,790

in europe new york oh new york europe oh

1225

00:45:20,550 --> 00:45:19,040

europe europe no i i'm not aware i don't

1226

00:45:21,910 --> 00:45:20,560

do not believe

1227

00:45:25,270 --> 00:45:21,920

that this eclipse is going to go through

1228

00:45:25,280 --> 00:45:30,069

no i have to watch tv all right

1229

00:45:32,710 --> 00:45:31,030

okay

1230

00:45:35,270 --> 00:45:32,720

go ahead jason one more then we have a

1231

00:45:37,030 --> 00:45:35,280

hand here in the audience sure uh and

1232

00:45:38,710 --> 00:45:37,040

then twitter user rachel is asking are

1233

00:45:40,710 --> 00:45:38,720

we working with public transit to move

1234

00:45:42,950 --> 00:45:40,720

travelers safely to and from prime

1235

00:45:44,950 --> 00:45:42,960

viewing locations

1236

00:45:47,030 --> 00:45:44,960

um we are in touch with transit

1237

00:45:49,030 --> 00:45:47,040

properties but uh you know they only go

1238

00:45:51,270 --> 00:45:49,040

so far in their jurisdiction so places

1239

00:45:53,750 --> 00:45:51,280

like nashville you know there's already

1240

00:45:54,470 --> 00:45:53,760

good infrastructure in place for transit

1241

00:45:55,990 --> 00:45:54,480

um

1242

00:45:57,589 --> 00:45:56,000

you talk about the park service if

1243

00:46:00,230 --> 00:45:57,599

there's anything special that you're

1244

00:46:01,589 --> 00:46:00,240

doing there for long haul you know it

1245

00:46:03,670 --> 00:46:01,599

would be getting the information out to

1246

00:46:05,510 --> 00:46:03,680

the motor coaches to help make sure that

1247

00:46:07,589 --> 00:46:05,520

they're prepared

1248

00:46:09,510 --> 00:46:07,599

yeah in terms of national parks with

1249

00:46:11,510 --> 00:46:09,520

mass transit

1250

00:46:14,390 --> 00:46:11,520

as you're aware most of our sites along

1251

00:46:17,349 --> 00:46:14,400

a specific trajectory are fairly remote

1252

00:46:19,190 --> 00:46:17,359

and there may be service providers for

1253

00:46:20,790 --> 00:46:19,200

doing that in terms of helping people to

1254

00:46:22,470 --> 00:46:20,800

get there but in terms of actual effort

1255

00:46:23,510 --> 00:46:22,480

by the park service

1256

00:46:26,069 --> 00:46:23,520

we're not providing anything

1257

00:46:28,710 --> 00:46:26,079

specifically

1258

00:46:30,309 --> 00:46:28,720

okay we're going to come back and um uh

1259

00:46:32,309 --> 00:46:30,319

you have the mic but we also have some

1260

00:46:34,069 --> 00:46:32,319

social media folks here in the audience

1261

00:46:35,589 --> 00:46:34,079

so uh if you guys want to ask questions

1262

00:46:37,030 --> 00:46:35,599

i'm gonna see if we wanna come to you

1263

00:46:40,230 --> 00:46:37,040

next week go ahead uh name an

1264

00:46:45,349 --> 00:46:43,510

with nasa social

1265

00:46:47,190 --> 00:46:45,359

you got us

1266

00:46:48,870 --> 00:46:47,200

um i have a question from a twitter

1267

00:46:51,430 --> 00:46:48,880

follower michelle

1268

00:46:54,309 --> 00:46:51,440

asking for the international space

1269

00:46:56,150 --> 00:46:54,319

station what will they observe from from

1270

00:46:57,510 --> 00:46:56,160

the space station and what can they

1271

00:46:59,109 --> 00:46:57,520

expect to see

1272

00:47:01,910 --> 00:46:59,119

well that's a very good question we are

1273

00:47:04,630 --> 00:47:01,920

still evaluating what that will be so

1274

00:47:06,309 --> 00:47:04,640

stay tuned uh we want to get out early

1275

00:47:07,910 --> 00:47:06,319

we're two months out well we're going to

1276

00:47:09,589 --> 00:47:07,920

have a better picture of the

1277

00:47:11,109 --> 00:47:09,599

international space station with more

1278

00:47:12,870 --> 00:47:11,119

specifics probably about two weeks

1279

00:47:14,950 --> 00:47:12,880

before the eclipse so stay tuned we'll

1280

00:47:18,950 --> 00:47:14,960

get that out to you as soon as possible

1281

00:47:25,030 --> 00:47:21,910

we got a hand here let's go

1282

00:47:26,790 --> 00:47:25,040

hold hand up high

1283

00:47:29,190 --> 00:47:26,800

please identify yourself

1284

00:47:31,589 --> 00:47:29,200

hi i'm jen halwa with go beyond so one

1285

00:47:33,190 --> 00:47:31,599

of my followers andrew wants to know

1286

00:47:35,190 --> 00:47:33,200

given the recent wave of sort of

1287

00:47:38,069 --> 00:47:35,200

anti-science sentiment that we're seeing

1288

00:47:40,150 --> 00:47:38,079

across the u.s how is nasa focusing its

1289

00:47:42,150 --> 00:47:40,160

outreach efforts to get people more

1290

00:47:44,710 --> 00:47:42,160

excited about science is this eclipse

1291

00:47:46,230 --> 00:47:44,720

part of that

1292

00:47:47,589 --> 00:47:46,240

is that something you guys can comment

1293

00:47:49,510 --> 00:47:47,599

on or do we have to keep it about the

1294

00:47:53,829 --> 00:47:49,520

eclipse

1295

00:47:58,630 --> 00:47:56,309

the way i so

1296

00:48:01,109 --> 00:47:58,640

working at one of the most exciting

1297

00:48:02,549 --> 00:48:01,119

science organizations in the world at

1298

00:48:04,549 --> 00:48:02,559

nasa um

1299

00:48:06,390 --> 00:48:04,559

you know we feel that it's absolutely

1300

00:48:08,150 --> 00:48:06,400

critical to keep talking about science

1301
00:48:09,349 --> 00:48:08,160
and the impact that science has you know

1302
00:48:11,510 --> 00:48:09,359
science

1303
00:48:13,510 --> 00:48:11,520
not only changes what we know but

1304
00:48:15,270 --> 00:48:13,520
sometimes changes entirely how we think

1305
00:48:17,270 --> 00:48:15,280
about life itself

1306
00:48:19,510 --> 00:48:17,280
and the kind of how i started today

1307
00:48:21,990 --> 00:48:19,520
talking about really where we're at in

1308
00:48:24,470 --> 00:48:22,000
the world is one of those vantage points

1309
00:48:26,790 --> 00:48:24,480
i also uh uh we keep repeating and

1310
00:48:28,950 --> 00:48:26,800
really want to show tangible examples to

1311
00:48:31,430 --> 00:48:28,960
show how science and protects and

1312
00:48:34,549 --> 00:48:31,440
improves life the kind of work

1313
00:48:37,270 --> 00:48:34,559

that uh you do vanessa noah you know

1314

00:48:39,190 --> 00:48:37,280

that really predicts these storms it's

1315

00:48:40,309 --> 00:48:39,200

all

1316

00:48:42,870 --> 00:48:40,319

truly

1317

00:48:45,190 --> 00:48:42,880

uh a benefit of science investments over

1318

00:48:46,150 --> 00:48:45,200

many many years that now save lives

1319

00:48:48,549 --> 00:48:46,160

today

1320

00:48:51,430 --> 00:48:48,559

we have these cameras out there that in

1321

00:48:54,309 --> 00:48:51,440

fact work and and do the kind of

1322

00:48:56,870 --> 00:48:54,319

amazing um um you know get the amazing

1323

00:48:58,870 --> 00:48:56,880

data that that we use every day not just

1324

00:49:01,270 --> 00:48:58,880

to figure out how we dress but to get

1325

00:49:03,270 --> 00:49:01,280

out of the way of harm and so for us uh

1326

00:49:05,990 --> 00:49:03,280

really talking about the benefits of

1327

00:49:08,630 --> 00:49:06,000

science that every one of us has is one

1328

00:49:11,670 --> 00:49:08,640

of the ways we we address uh the kind of

1329

00:49:13,910 --> 00:49:11,680

worry that is being expressed

1330

00:49:15,349 --> 00:49:13,920

and again um for the 230 with the

1331

00:49:16,790 --> 00:49:15,359

scientists you hear some interesting

1332

00:49:18,230 --> 00:49:16,800

perspective for them so keep that in

1333

00:49:19,750 --> 00:49:18,240

mind so seth i'm going to come back to

1334

00:49:22,470 --> 00:49:19,760

you and then we're going to begin

1335

00:49:23,510 --> 00:49:22,480

wrapping up uh can we get seth another

1336

00:49:25,109 --> 00:49:23,520

mike

1337

00:49:27,510 --> 00:49:25,119

and if there's any other hands after

1338

00:49:30,150 --> 00:49:27,520

seth i'll go one more social to jason

1339

00:49:32,230 --> 00:49:30,160

and then we'll wrap up

1340

00:49:35,109 --> 00:49:32,240

thank you seth bornstein again at ap for

1341

00:49:38,150 --> 00:49:35,119

vanessa given that um

1342

00:49:40,069 --> 00:49:38,160

for the weather for an eclipse

1343

00:49:42,870 --> 00:49:40,079

uh eclipse watchers are especially not

1344

00:49:45,510 --> 00:49:42,880

just looking at is it partly cloudy

1345

00:49:47,109 --> 00:49:45,520

you know all mostly sunny they're

1346

00:49:49,030 --> 00:49:47,119

looking for far more specifics and

1347

00:49:50,790 --> 00:49:49,040

they're looking two or three days in

1348

00:49:53,190 --> 00:49:50,800

advance so that they can chase an

1349

00:49:55,030 --> 00:49:53,200

eclipse and chase the good weather

1350

00:49:56,390 --> 00:49:55,040

uh what kind of

1351
00:49:58,470 --> 00:49:56,400
is noaa going to be doing anything

1352
00:50:01,750 --> 00:49:58,480
special in terms of resources and

1353
00:50:03,990 --> 00:50:01,760
eclipse forecasts you know and changing

1354
00:50:05,670 --> 00:50:04,000
you know a forecast that's more aimed at

1355
00:50:07,030 --> 00:50:05,680
here is the sky coverage you're going to

1356
00:50:09,109 --> 00:50:07,040
get

1357
00:50:12,069 --> 00:50:09,119
and especially two days in advance when

1358
00:50:13,510 --> 00:50:12,079
you need it more sure i pointed out um

1359
00:50:15,589 --> 00:50:13,520
we have a number of websites that we'll

1360
00:50:17,750 --> 00:50:15,599
be posting information about including

1361
00:50:19,589 --> 00:50:17,760
weather service sites talking about the

1362
00:50:21,030 --> 00:50:19,599
the weather during the eclipse and and i

1363
00:50:23,589 --> 00:50:21,040

just want to remind everybody that you

1364

00:50:25,670 --> 00:50:23,599

know um while two months out we can say

1365

00:50:27,829 --> 00:50:25,680

you know from historical record where

1366

00:50:30,150 --> 00:50:27,839

clouds tend to be we clearly don't know

1367

00:50:32,390 --> 00:50:30,160

yet on october august 21st where the

1368

00:50:33,910 --> 00:50:32,400

clouds will be so definitely stay tuned

1369

00:50:35,829 --> 00:50:33,920

to your local weather forecast in the

1370

00:50:37,430 --> 00:50:35,839

weather service forecasts and and use

1371

00:50:39,829 --> 00:50:37,440

their they will have tools they'll have

1372

00:50:42,150 --> 00:50:39,839

i'm sure plenty of information out a few

1373

00:50:43,910 --> 00:50:42,160

days ahead so you can make decisions on

1374

00:50:45,990 --> 00:50:43,920

where you might want to plan your visit

1375

00:50:47,990 --> 00:50:46,000

if you have choices of where to go to

1376

00:50:49,829 --> 00:50:48,000

look to view

1377

00:50:54,230 --> 00:50:49,839

vanessa i said october 2 you must be a

1378

00:50:57,829 --> 00:50:56,390

a special eclipse website

1379

00:51:00,549 --> 00:50:57,839

and noaa just

1380

00:51:01,750 --> 00:51:00,559

um for weather watchers as you know i

1381

00:51:03,190 --> 00:51:01,760

know there are places like people like

1382

00:51:05,349 --> 00:51:03,200

jm

1383

00:51:07,349 --> 00:51:05,359

i'm not quite sure what content they're

1384

00:51:08,790 --> 00:51:07,359

planning for those websites yet because

1385

00:51:10,069 --> 00:51:08,800

where i think it's still in work but we

1386

00:51:11,910 --> 00:51:10,079

will get back with you and let you know

1387

00:51:14,150 --> 00:51:11,920

and finally you mentioned discover

1388

00:51:15,990 --> 00:51:14,160

satellite yes how crucial is it

1389

00:51:17,829 --> 00:51:16,000

especially given that it is uh being

1390

00:51:19,910 --> 00:51:17,839

slated for being killed off by this

1391

00:51:21,670 --> 00:51:19,920

administration oh the discover

1392

00:51:23,510 --> 00:51:21,680

satellites not being turned off this

1393

00:51:25,990 --> 00:51:23,520

cover satellite is used in operations

1394

00:51:28,150 --> 00:51:26,000

daily to monitor the sun's output and to

1395

00:51:29,030 --> 00:51:28,160

provide us the weather warnings of space

1396

00:51:30,309 --> 00:51:29,040

weather

1397

00:51:31,829 --> 00:51:30,319

that you know what you're talking about

1398

00:51:33,430 --> 00:51:31,839

is the epic camera and the money to

1399

00:51:35,190 --> 00:51:33,440

operate the epic camera which is the one

1400

00:51:37,829 --> 00:51:35,200

that looks back at the earth

1401

00:51:41,430 --> 00:51:37,839

but the discover satellite itself is is

1402

00:51:43,030 --> 00:51:41,440

is is in operations it won't rain so

1403

00:51:45,270 --> 00:51:43,040

okay jason let's take us home with one

1404

00:51:48,150 --> 00:51:45,280

more question and we'll wrap up sure um

1405

00:51:52,710 --> 00:51:48,160

so twitter user glad you know is asking

1406

00:51:55,910 --> 00:51:54,069

you're at the time

1407

00:51:57,349 --> 00:51:55,920

i don't have it right committed to

1408

00:51:58,790 --> 00:51:57,359

memory at some

1409

00:52:00,950 --> 00:51:58,800

time

1410

00:52:03,430 --> 00:52:00,960

have you give them a identify yourself

1411

00:52:05,990 --> 00:52:03,440

please um hi this is alex young from

1412

00:52:09,190 --> 00:52:06,000

goddard space flight center so on the

1413

00:52:12,630 --> 00:52:09,200

west coast it's going to get to oregon

1414

00:52:15,270 --> 00:52:12,640

at about 10 15 a.m local time and

1415

00:52:19,109 --> 00:52:15,280

actually ends in south carolina around 2

1416

00:52:21,190 --> 00:52:19,119

45 p.m local time and it takes an hour

1417

00:52:23,150 --> 00:52:21,200

and a half to get across the country

1418

00:52:24,549 --> 00:52:23,160

and if you go to

1419

00:52:26,549 --> 00:52:24,559

eclipse2017.nasa.gov we have an

1420

00:52:28,630 --> 00:52:26,559

interactive google map you can click on

1421

00:52:30,829 --> 00:52:28,640

any point in the united states and find

1422

00:52:33,270 --> 00:52:30,839

out all the specifics of

1423

00:52:35,270 --> 00:52:33,280

timing excellent so ladies and gentlemen

1424

00:52:37,030 --> 00:52:35,280

uh we're going to wrap up here now again

1425

00:52:39,030 --> 00:52:37,040

don't change that dial we're going to

1426

00:52:41,510 --> 00:52:39,040

take a brief intermission with some

1427

00:52:43,589 --> 00:52:41,520

safety videos and other eclipse content

1428

00:52:45,349 --> 00:52:43,599

we can come back here at 2 30 with

1429

00:52:47,990 --> 00:52:45,359

scientists you really don't want to miss

1430

00:52:50,390 --> 00:52:48,000

this discussion i want to thank our host

1431

00:52:52,230 --> 00:52:50,400

the museum our panel all of the

1432

00:52:55,030 --> 00:52:52,240

organizations here

1433

00:52:57,270 --> 00:52:55,040

and the fact that we are getting ready

1434

00:52:59,349 --> 00:52:57,280

with two months out we're still going to

1435

00:53:00,549 --> 00:52:59,359

be updating all of the websites that

1436

00:53:02,390 --> 00:53:00,559

you've heard

1437

00:53:05,270 --> 00:53:02,400

uh go to

1438

00:53:07,109 --> 00:53:05,280

nasa.gov slash eclipse live remember

1439

00:53:08,150 --> 00:53:07,119

that for the live show

1440

00:53:10,710 --> 00:53:08,160

uh

1441

00:53:12,630 --> 00:53:10,720

hashtag eclipse2017

1442

00:53:15,589 --> 00:53:12,640

and we're going to do one last thing and

1443

00:53:19,109 --> 00:53:15,599

i need audience participation uh we

1444

00:53:20,790 --> 00:53:19,119

talked about safety safety safety

1445

00:53:23,109 --> 00:53:20,800

get those glasses

1446

00:53:24,630 --> 00:53:23,119

get ready for the eclipse we will be

1447

00:53:26,069 --> 00:53:24,640

august 21

1448

00:53:29,830 --> 00:53:26,079

we're prepared

1449

00:53:29,830 --> 00:53:29,840

we'll see you at 2 30.