



1
00:00:05,910 --> 00:00:04,950

[Music]

2
00:00:08,150 --> 00:00:05,920

i'm

3
00:00:09,110 --> 00:00:08,160

really pleased to be joining with all of

4
00:00:11,430 --> 00:00:09,120

you

5
00:00:13,030 --> 00:00:11,440

i know we have many marylanders in this

6
00:00:14,629 --> 00:00:13,040

group but whether you're from maryland

7
00:00:17,109 --> 00:00:14,639

or elsewhere

8
00:00:18,870 --> 00:00:17,119

thank you for joining us uh all of us in

9
00:00:21,029 --> 00:00:18,880

maryland are so proud

10
00:00:23,269 --> 00:00:21,039

that this national treasure is right

11
00:00:25,189 --> 00:00:23,279

here in prince george's county i want to

12
00:00:27,109 --> 00:00:25,199

thank our state and local elected

13
00:00:29,109 --> 00:00:27,119

officials i don't know if county

14

00:00:30,470 --> 00:00:29,119

executive ulcer brooks is here but i

15

00:00:33,510 --> 00:00:30,480

want to thank her for terrific

16

00:00:35,830 --> 00:00:33,520

leadership and all the men and women

17

00:00:36,950 --> 00:00:35,840

who work here at goddard who work for

18

00:00:39,350 --> 00:00:36,960

nasa

19

00:00:40,630 --> 00:00:39,360

who work for noaa who work for the

20

00:00:43,350 --> 00:00:40,640

geological

21

00:00:45,270 --> 00:00:43,360

survey thank all of you for the very

22

00:00:47,350 --> 00:00:45,280

meaningful work you do

23

00:00:48,389 --> 00:00:47,360

each and every day on behalf of our

24

00:00:52,069 --> 00:00:48,399

country

25

00:00:53,189 --> 00:00:52,079

and in fact on behalf of people across

26

00:00:56,069 --> 00:00:53,199

the world

27

00:00:57,350 --> 00:00:56,079

i am very pleased to be

28

00:01:00,470 --> 00:00:57,360

here today

29

00:01:03,670 --> 00:01:00,480

with my friend and former colleague

30

00:01:04,950 --> 00:01:03,680

from the senate and that is bill nelson

31

00:01:06,950 --> 00:01:04,960

of florida

32

00:01:08,630 --> 00:01:06,960

who is now the nasa administrator i

33

00:01:11,270 --> 00:01:08,640

remember as soon as we heard that he was

34

00:01:13,510 --> 00:01:11,280

nominated as the nasa administrator i

35

00:01:15,510 --> 00:01:13,520

got on the phone with bill nelson and

36

00:01:17,749 --> 00:01:15,520

said i know you're from florida

37

00:01:20,230 --> 00:01:17,759

i know it's a big space state but

38

00:01:22,469 --> 00:01:20,240

maryland's a big space state too and

39

00:01:24,630 --> 00:01:22,479

senator cardin did the same and we are

40

00:01:27,109 --> 00:01:24,640

grateful that the new administrator of

41

00:01:29,190 --> 00:01:27,119

nasa bill nelson is here and has been

42

00:01:32,069 --> 00:01:29,200

here before and understands the

43

00:01:35,350 --> 00:01:32,079

importance of goddard

44

00:01:36,630 --> 00:01:35,360

and i'm especially proud to be here

45

00:01:38,149 --> 00:01:36,640

welcoming

46

00:01:40,230 --> 00:01:38,159

the another

47

00:01:42,550 --> 00:01:40,240

friend and another former colleague from

48

00:01:44,630 --> 00:01:42,560

the united states senate and that is now

49

00:01:46,149 --> 00:01:44,640

our vice president kamala harris and

50

00:01:47,990 --> 00:01:46,159

you'll be hearing from her lately but if

51
00:01:52,230 --> 00:01:48,000
you could give her a round of applause

52
00:01:57,030 --> 00:01:53,990
i want to thank her for all the work

53
00:01:58,469 --> 00:01:57,040
she's doing for our country together

54
00:02:00,709 --> 00:01:58,479
with the president

55
00:02:02,149 --> 00:02:00,719
i want to especially thank her today for

56
00:02:05,429 --> 00:02:02,159
her leadership

57
00:02:08,150 --> 00:02:05,439
on issues involving the national space

58
00:02:10,309 --> 00:02:08,160
council which she chairs and also her

59
00:02:13,190 --> 00:02:10,319
work with president biden in leading the

60
00:02:16,150 --> 00:02:13,200
global campaign to confront the climate

61
00:02:19,030 --> 00:02:16,160
crisis and in the process put millions

62
00:02:22,790 --> 00:02:19,040
of americans to work in good paying jobs

63
00:02:24,390 --> 00:02:22,800

as we move to a clean energy economy

64

00:02:26,949 --> 00:02:24,400

and that brings me to why we're all

65

00:02:28,309 --> 00:02:26,959

gathered here today we just had a

66

00:02:30,550 --> 00:02:28,319

terrific tour

67

00:02:32,710 --> 00:02:30,560

with the leader of goddard dennis

68

00:02:36,470 --> 00:02:32,720

andreuzic and i want to thank him for

69

00:02:41,750 --> 00:02:39,110

we are in regular uh communication i

70

00:02:44,470 --> 00:02:41,760

also want to thank his partners at noaa

71

00:02:47,190 --> 00:02:44,480

in the united states geological survey

72

00:02:49,270 --> 00:02:47,200

and we were here to look at some of the

73

00:02:51,670 --> 00:02:49,280

very important work being done

74

00:02:53,670 --> 00:02:51,680

to highlight the mission at goddard and

75

00:02:55,830 --> 00:02:53,680

these other federal agencies

76

00:02:58,229 --> 00:02:55,840

to tackle climate change

77

00:02:59,910 --> 00:02:58,239

and investments here at goddard and

78

00:03:01,990 --> 00:02:59,920

elsewhere around the country are giving

79

00:03:05,110 --> 00:03:02,000

us the information we need

80

00:03:07,430 --> 00:03:05,120

to better protect communities against

81

00:03:09,190 --> 00:03:07,440

the ravages and devastation of climate

82

00:03:11,750 --> 00:03:09,200

change but also

83

00:03:14,550 --> 00:03:11,760

to better figure out and chart our way

84

00:03:16,149 --> 00:03:14,560

to confront the climate crisis and i

85

00:03:18,550 --> 00:03:16,159

want to thank all of you for being on

86

00:03:20,949 --> 00:03:18,560

the front lines of that work because

87

00:03:23,190 --> 00:03:20,959

goddard and its brilliant scientists are

88

00:03:25,670 --> 00:03:23,200

the leading edge of nasa's climate work

89

00:03:27,509 --> 00:03:25,680

this is the greatest assembly of earth

90

00:03:31,990 --> 00:03:27,519

scientists in the world and i want to

91

00:03:33,509 --> 00:03:32,000

thank you for your expertise and work

92

00:03:35,270 --> 00:03:33,519

i'm pleased to serve on the

93

00:03:37,190 --> 00:03:35,280

appropriations committee and i can

94

00:03:39,670 --> 00:03:37,200

assure you that we'll continue to work

95

00:03:41,430 --> 00:03:39,680

with our colleagues uh to provide the

96

00:03:44,390 --> 00:03:41,440

funding for the important programs that

97

00:03:47,110 --> 00:03:44,400

we just witnessed including things like

98

00:03:50,390 --> 00:03:47,120

gos including things like pace uh

99

00:03:51,190 --> 00:03:50,400

including uh landstat9 and many of the

100

00:03:53,670 --> 00:03:51,200

other

101
00:03:55,350 --> 00:03:53,680
important instruments that you use to

102
00:03:59,509 --> 00:03:55,360
gather the data that then you put to

103
00:04:01,429 --> 00:03:59,519
work to solve problems here on earth

104
00:04:03,830 --> 00:04:01,439
but in addition to in addition to the

105
00:04:06,470 --> 00:04:03,840
annual appropriations um

106
00:04:08,949 --> 00:04:06,480
we can't be engaged in business as usual

107
00:04:12,070 --> 00:04:08,959
uh and that's why the buildback better

108
00:04:14,710 --> 00:04:12,080
agenda is so important both pieces of it

109
00:04:17,110 --> 00:04:14,720
the infrastructure modernization bill as

110
00:04:19,670 --> 00:04:17,120
well as the investment in people power

111
00:04:22,310 --> 00:04:19,680
in more opportunities for more americans

112
00:04:25,350 --> 00:04:22,320
including engaging them in the

113
00:04:28,070 --> 00:04:25,360

scientific enterprise and the enterprise

114

00:04:28,870 --> 00:04:28,080

of discovery that you're all working on

115

00:04:31,430 --> 00:04:28,880

and

116

00:04:33,749 --> 00:04:31,440

i do want to say to my members from the

117

00:04:36,550 --> 00:04:33,759

maryland house congressional delegation

118

00:04:38,230 --> 00:04:36,560

including congressman hoyer and brown

119

00:04:41,030 --> 00:04:38,240

who i know wanted to be here but they're

120

00:04:43,189 --> 00:04:41,040

at work as we speak uh trying to pass

121

00:04:45,350 --> 00:04:43,199

the build back better agenda through the

122

00:04:46,790 --> 00:04:45,360

house of representatives and that

123

00:04:49,749 --> 00:04:46,800

legislation

124

00:04:52,390 --> 00:04:49,759

includes significant investments in our

125

00:04:53,430 --> 00:04:52,400

nasa infrastructure including close to

126
00:04:55,270 --> 00:04:53,440
home

127
00:04:56,870 --> 00:04:55,280
a very important infrastructure program

128
00:05:00,150 --> 00:04:56,880
down at wallops

129
00:05:02,710 --> 00:05:00,160
which is of course part of maryland's

130
00:05:04,950 --> 00:05:02,720
space assets but whether it's nasa

131
00:05:06,870 --> 00:05:04,960
goddard whether it's wallops whether

132
00:05:08,150 --> 00:05:06,880
it's the space telescope whether it's

133
00:05:10,469 --> 00:05:08,160
apl

134
00:05:12,950 --> 00:05:10,479
maryland really is a home for space

135
00:05:15,350 --> 00:05:12,960
activity and activity looking here at

136
00:05:19,029 --> 00:05:15,360
earth and i want to thank all of you for

137
00:05:21,909 --> 00:05:19,039
being part of that extraordinary effort

138
00:05:23,430 --> 00:05:21,919

this is a moment that we've got to come

139

00:05:26,150 --> 00:05:23,440

together

140

00:05:28,070 --> 00:05:26,160

and address the crisis that's be

141

00:05:30,230 --> 00:05:28,080

upon us and that is why passing this

142

00:05:31,590 --> 00:05:30,240

bill back better legislation is so

143

00:05:33,270 --> 00:05:31,600

important that's why i'm so pleased the

144

00:05:35,990 --> 00:05:33,280

vice president

145

00:05:38,710 --> 00:05:36,000

and the president are so focused on this

146

00:05:41,670 --> 00:05:38,720

issue restoring american leadership

147

00:05:43,590 --> 00:05:41,680

around the world and leading again the

148

00:05:45,510 --> 00:05:43,600

international campaign

149

00:05:47,990 --> 00:05:45,520

to address climate change

150

00:05:50,150 --> 00:05:48,000

so now it's my great honor

151

00:05:53,189 --> 00:05:50,160

to turn the podium over

152

00:05:56,710 --> 00:05:53,199

to a person who as i said i serve with

153

00:05:58,790 --> 00:05:56,720

in the united states senate uh and is is

154

00:06:01,430 --> 00:05:58,800

no stranger to the important work at

155

00:06:03,830 --> 00:06:01,440

nasa and i'm very pleased that he's now

156

00:06:06,469 --> 00:06:03,840

at the helm of nasa and that's bill

157

00:06:17,909 --> 00:06:06,479

nelson please give them a warm maryland

158

00:06:21,990 --> 00:06:19,510

hi everybody

159

00:06:23,590 --> 00:06:22,000

boy it's been a great day here

160

00:06:25,990 --> 00:06:23,600

at goddard

161

00:06:28,230 --> 00:06:26,000

uh just terrific to have the vice

162

00:06:30,629 --> 00:06:28,240

president here

163

00:06:34,950 --> 00:06:30,639

to have

164

00:06:37,670 --> 00:06:34,960

my good friend senator van hollen

165

00:06:40,070 --> 00:06:37,680

and it's an honor for me to be back

166

00:06:42,550 --> 00:06:40,080

to goddard because you all

167

00:06:44,390 --> 00:06:42,560

are making the impossible possible

168

00:06:47,430 --> 00:06:44,400

you're doing

169

00:06:50,150 --> 00:06:47,440

tremendous things

170

00:06:53,270 --> 00:06:50,160

i think when the vice president speaks

171

00:06:56,550 --> 00:06:53,280

you'll see that she is a champion for

172

00:06:58,790 --> 00:06:56,560

nasa and for space

173

00:07:03,350 --> 00:06:58,800

i saw that advocacy

174

00:07:04,150 --> 00:07:03,360

when we served together in the senate

175

00:07:05,510 --> 00:07:04,160

and

176
00:07:09,670 --> 00:07:05,520
this

177
00:07:12,629 --> 00:07:09,680
spirit of adventure in nasa

178
00:07:13,909 --> 00:07:12,639
is a reflective of our american

179
00:07:16,629 --> 00:07:13,919
character

180
00:07:19,110 --> 00:07:16,639
we believe in pushing further into the

181
00:07:22,390 --> 00:07:19,120
cosmos

182
00:07:25,670 --> 00:07:22,400
but we also believe confronting

183
00:07:27,350 --> 00:07:25,680
the problems here terrestrially

184
00:07:28,629 --> 00:07:27,360
and that's why

185
00:07:32,629 --> 00:07:28,639
we are

186
00:07:36,070 --> 00:07:32,639
involved in this climate crisis

187
00:07:38,390 --> 00:07:36,080
that is in urgency

188
00:07:40,950 --> 00:07:38,400

because extreme weather

189

00:07:42,830 --> 00:07:40,960

is destroying livelihoods and it's

190

00:07:46,150 --> 00:07:42,840

claiming

191

00:07:49,830 --> 00:07:46,160

lives greenhouse gases

192

00:07:53,029 --> 00:07:49,840

are trapping more heat in the atmosphere

193

00:07:55,029 --> 00:07:53,039

and the earth's surface is continuing to

194

00:07:57,830 --> 00:07:55,039

warm up

195

00:08:00,390 --> 00:07:57,840

and the oceans as a consequence are

196

00:08:06,150 --> 00:08:03,510

these are not coincidences

197

00:08:09,589 --> 00:08:06,160

but they are consequences

198

00:08:14,390 --> 00:08:12,550

to borrow a phrase from the legendary

199

00:08:16,710 --> 00:08:14,400

flight director

200

00:08:19,990 --> 00:08:16,720

gene krantz

201
00:08:21,189 --> 00:08:20,000
when it comes to climate change

202
00:08:24,469 --> 00:08:21,199
failure

203
00:08:29,029 --> 00:08:27,270
and the reality is

204
00:08:30,950 --> 00:08:29,039
and you've heard the president speak

205
00:08:35,350 --> 00:08:30,960
about this

206
00:08:38,630 --> 00:08:35,360
if we do not act if we do not use

207
00:08:41,509 --> 00:08:38,640
the data that is available to us to make

208
00:08:43,430 --> 00:08:41,519
some real changes

209
00:08:48,150 --> 00:08:43,440
the impacts

210
00:08:49,910 --> 00:08:48,160
of climate change will only get worse

211
00:08:51,910 --> 00:08:49,920
and the least

212
00:08:55,910 --> 00:08:51,920
among us

213
00:09:00,949 --> 00:08:57,990

the president and the vice president are

214

00:09:04,470 --> 00:09:00,959

mounting a whole of government response

215

00:09:13,110 --> 00:09:08,790

now we are known at nasa as the premier

216

00:09:15,990 --> 00:09:13,120

world's premier space agency

217

00:09:18,710 --> 00:09:16,000

but we are also at the point of the

218

00:09:22,550 --> 00:09:18,720

spear on climate change

219

00:09:25,509 --> 00:09:22,560

we are the leading climate agents

220

00:09:29,269 --> 00:09:25,519

and the proof's in the pudding

221

00:09:31,509 --> 00:09:29,279

for example the landsat program

222

00:09:34,630 --> 00:09:31,519

it's an invaluable partnership with the

223

00:09:37,030 --> 00:09:34,640

u.s geological survey

224

00:09:39,990 --> 00:09:37,040

and for half a century

225

00:09:43,190 --> 00:09:40,000

nasa satellites have captured

226

00:09:46,389 --> 00:09:43,200

nine million images of our changing

227

00:09:48,790 --> 00:09:46,399

planet from space

228

00:09:51,430 --> 00:09:48,800

from the melting glaciers

229

00:09:53,509 --> 00:09:51,440

to the reservoirs that are drying up in

230

00:09:55,670 --> 00:09:53,519

the droughts

231

00:09:59,030 --> 00:09:55,680

we're witnessing climate change right in

232

00:10:03,430 --> 00:10:00,070

today

233

00:10:06,389 --> 00:10:03,440

nasa released the first images of

234

00:10:08,470 --> 00:10:06,399

landsat 9 we showed that to the vice

235

00:10:11,350 --> 00:10:08,480

president

236

00:10:12,550 --> 00:10:11,360

and it's building on this a half a

237

00:10:14,550 --> 00:10:12,560

century

238

00:10:17,829 --> 00:10:14,560

legacy

239

00:10:19,509 --> 00:10:17,839

and because we're not going to stop

240

00:10:22,630 --> 00:10:19,519

seeking

241

00:10:24,949 --> 00:10:22,640

a better life here on earth

242

00:10:27,750 --> 00:10:24,959

is why we're doing this

243

00:10:31,509 --> 00:10:27,760

along with putting up five great

244

00:10:34,069 --> 00:10:31,519

observatories over the next decade

245

00:10:35,750 --> 00:10:34,079

that will give us precision in our

246

00:10:38,550 --> 00:10:35,760

measurements

247

00:10:41,829 --> 00:10:38,560

of the land the oceans

248

00:10:44,790 --> 00:10:41,839

the atmosphere and the ice and it will

249

00:10:48,630 --> 00:10:44,800

create a 3d composite

250

00:10:51,190 --> 00:10:48,640

that we can see in great detail

251
00:10:52,230 --> 00:10:51,200
more detail than we have now what is

252
00:10:54,310 --> 00:10:52,240
happening

253
00:10:56,230 --> 00:10:54,320
to our earth

254
00:10:59,590 --> 00:10:56,240
well

255
00:11:01,829 --> 00:10:59,600
i'm proud to announce a new nasa earth

256
00:11:04,630 --> 00:11:01,839
science mission

257
00:11:07,509 --> 00:11:04,640
it's called incus

258
00:11:09,110 --> 00:11:07,519
that stands for investigation of

259
00:11:11,430 --> 00:11:09,120
convective

260
00:11:14,150 --> 00:11:11,440
updrafts

261
00:11:16,389 --> 00:11:14,160
it's going to be three little small

262
00:11:20,230 --> 00:11:16,399
satellites

263
00:11:22,230 --> 00:11:20,240

they're expected to launch in 2027

264

00:11:25,110 --> 00:11:22,240

and they will study the behavior of

265

00:11:27,350 --> 00:11:25,120

tropical storms and thunderstorms

266

00:11:29,829 --> 00:11:27,360

including the impact on weather and

267

00:11:32,230 --> 00:11:29,839

climate models

268

00:11:34,389 --> 00:11:32,240

incas will help us better understand

269

00:11:37,190 --> 00:11:34,399

extreme weather and prepare

270

00:11:38,550 --> 00:11:37,200

our communities and our families and our

271

00:11:42,550 --> 00:11:38,560

businesses

272

00:11:45,829 --> 00:11:42,560

before a disaster it's a part of this

273

00:11:49,509 --> 00:11:45,839

3d composite

274

00:11:52,069 --> 00:11:49,519

and in the face of all these disasters

275

00:11:53,190 --> 00:11:52,079

there are significant equity issues when

276

00:11:58,150 --> 00:11:53,200

it comes

277

00:12:01,590 --> 00:11:58,160

to which communities get the support

278

00:12:03,509 --> 00:12:01,600

and when do they get the support

279

00:12:06,310 --> 00:12:03,519

and this new mission

280

00:12:07,910 --> 00:12:06,320

will help us address that ensuring

281

00:12:09,269 --> 00:12:07,920

more equitable

282

00:12:10,550 --> 00:12:09,279

disaster

283

00:12:13,030 --> 00:12:10,560

preparedness

284

00:12:17,350 --> 00:12:13,040

and response

285

00:12:21,190 --> 00:12:17,360

nasa data has the power to change and

286

00:12:23,430 --> 00:12:21,200

even save lives

287

00:12:25,750 --> 00:12:23,440

and expanding

288

00:12:28,069 --> 00:12:25,760

that data access

289

00:12:31,269 --> 00:12:28,079

is crucial and that's why

290

00:12:34,470 --> 00:12:31,279

we are exploring the idea

291

00:12:37,190 --> 00:12:34,480

of a climate mission control

292

00:12:38,949 --> 00:12:37,200

a mission control

293

00:12:40,949 --> 00:12:38,959

just like you've seen

294

00:12:42,949 --> 00:12:40,959

in the launches

295

00:12:45,269 --> 00:12:42,959

and since you've seen

296

00:12:47,190 --> 00:12:45,279

since the old apollo days mission

297

00:12:55,269 --> 00:12:47,200

control

298

00:12:58,389 --> 00:12:55,279

change exploring the heavens will always

299

00:12:59,350 --> 00:12:58,399

be at the core of nasa's mission but so

300

00:13:02,870 --> 00:12:59,360

is

301
00:13:06,710 --> 00:13:02,880
confronting the challenges here on earth

302
00:13:10,710 --> 00:13:06,720
and tackling this climate change is

303
00:13:17,190 --> 00:13:13,110
this administration's

304
00:13:21,110 --> 00:13:17,200
bill back better legislation

305
00:13:23,030 --> 00:13:21,120
right now that is the vote is underway

306
00:13:27,030 --> 00:13:23,040
on the floor of the house of

307
00:13:29,990 --> 00:13:27,040
representatives as we speak

308
00:13:31,590 --> 00:13:30,000
and it's been going on for over an hour

309
00:13:33,509 --> 00:13:31,600
and a half

310
00:13:35,910 --> 00:13:33,519
so you know what's happening they're

311
00:13:37,269 --> 00:13:35,920
trying to round up the votes

312
00:13:39,509 --> 00:13:37,279
well

313
00:13:43,829 --> 00:13:39,519

in that bill

314

00:13:47,670 --> 00:13:43,839

there's 365 million more

315

00:13:49,670 --> 00:13:47,680

for nasa for climate change

316

00:13:53,990 --> 00:13:49,680

from earth science programs to

317

00:13:57,910 --> 00:13:54,000

investments in sustainable aviation

318

00:13:59,269 --> 00:13:57,920

we're developing electric aircraft

319

00:14:01,670 --> 00:13:59,279

it's time

320

00:14:04,310 --> 00:14:01,680

for congress now

321

00:14:07,430 --> 00:14:04,320

to do its part

322

00:14:14,150 --> 00:14:10,949

that senator is leading the way

323

00:14:16,389 --> 00:14:14,160

and when this bill does pass later today

324

00:14:19,430 --> 00:14:16,399

in the house

325

00:14:24,870 --> 00:14:19,440

it's coming to the senate

326

00:14:27,509 --> 00:14:24,880

and they've got to have all 50 democrats

327

00:14:29,030 --> 00:14:27,519

so that the vice president can break the

328

00:14:31,990 --> 00:14:29,040

tie

329

00:14:35,910 --> 00:14:32,000

because they're not going to get one

330

00:14:42,710 --> 00:14:40,230

that senator is helping lead the charge

331

00:14:45,750 --> 00:14:42,720

and so in all this

332

00:14:48,069 --> 00:14:45,760

all of this scientific and research and

333

00:14:50,150 --> 00:14:48,079

technology it's creating

334

00:14:53,030 --> 00:14:50,160

good-paying jobs

335

00:14:56,829 --> 00:14:53,040

and new industries

336

00:15:00,949 --> 00:14:56,839

that are all addressing climate

337

00:15:03,030 --> 00:15:00,959

change and this agency is confronting

338

00:15:04,870 --> 00:15:03,040

earth's greatest

339

00:15:06,949 --> 00:15:04,880

existential

340

00:15:09,189 --> 00:15:06,959

threat

341

00:15:12,949 --> 00:15:09,199

we are making investments today to

342

00:15:14,629 --> 00:15:12,959

protect future generations

343

00:15:20,470 --> 00:15:14,639

and will unite

344

00:15:21,910 --> 00:15:20,480

and inspire america to build back better

345

00:15:25,829 --> 00:15:21,920

and now

346

00:15:28,069 --> 00:15:25,839

it's my privilege to introduce a space

347

00:15:32,310 --> 00:15:28,079

visionary

348

00:15:37,509 --> 00:15:33,990

and the person

349

00:15:41,269 --> 00:15:37,519

in her role as president of the senate

350

00:15:43,509 --> 00:15:41,279

that will break the tie for the bill

351
00:15:45,030 --> 00:15:43,519
back better bill

352
00:15:50,740 --> 00:15:45,040
ladies and gentlemen

353
00:16:09,110 --> 00:16:07,350
[Music]

354
00:16:12,470 --> 00:16:09,120
good afternoon everyone please have a

355
00:16:17,030 --> 00:16:14,550
bill nelson it is so wonderful to share

356
00:16:19,030 --> 00:16:17,040
a stage with you we serve together in

357
00:16:21,670 --> 00:16:19,040
the united states senate

358
00:16:23,350 --> 00:16:21,680
and i know you have very fond memories

359
00:16:24,870 --> 00:16:23,360
of your years as a leader in the united

360
00:16:26,629 --> 00:16:24,880
states senate but i think your first

361
00:16:28,550 --> 00:16:26,639
love aside from grace has always been

362
00:16:30,150 --> 00:16:28,560
space

363
00:16:32,710 --> 00:16:30,160

so it is so good to be with you and you

364

00:16:35,670 --> 00:16:32,720

know the administrator is right um i'm

365

00:16:37,509 --> 00:16:35,680

glad that you talked about the bills

366

00:16:39,189 --> 00:16:37,519

that are before congress

367

00:16:42,150 --> 00:16:39,199

the american people have waited long

368

00:16:45,749 --> 00:16:42,160

enough and we need to get this done

369

00:16:48,949 --> 00:16:45,759

so thank you for your comments um

370

00:16:51,350 --> 00:16:48,959

it is wonderful to be here at nasa i was

371

00:16:53,670 --> 00:16:51,360

just looking out the window almost with

372

00:16:55,829 --> 00:16:53,680

my nose pressed against the window as we

373

00:16:58,629 --> 00:16:55,839

were driving in

374

00:16:59,990 --> 00:16:58,639

to be able to arrive at this storied

375

00:17:03,590 --> 00:17:00,000

place

376

00:17:05,990 --> 00:17:03,600

where so much of the ingenuity the

377

00:17:07,909 --> 00:17:06,000

innovation the brilliance

378

00:17:10,949 --> 00:17:07,919

the skill

379

00:17:13,270 --> 00:17:10,959

of scientists of engineers of the people

380

00:17:15,750 --> 00:17:13,280

who you are who make up

381

00:17:17,189 --> 00:17:15,760

the team at nasa where this work is done

382

00:17:18,470 --> 00:17:17,199

it really is

383

00:17:20,870 --> 00:17:18,480

my privilege

384

00:17:24,069 --> 00:17:20,880

to be with you all today and to

385

00:17:25,750 --> 00:17:24,079

personally thank you for the work you do

386

00:17:28,069 --> 00:17:25,760

every day

387

00:17:30,870 --> 00:17:28,079

it inspires your country

388

00:17:33,270 --> 00:17:30,880

it inspires our country

389

00:17:35,430 --> 00:17:33,280

chris van hollen senator van hollen and

390

00:17:37,830 --> 00:17:35,440

i were classmates when we entered the

391

00:17:40,470 --> 00:17:37,840

united states senate together

392

00:17:43,190 --> 00:17:40,480

and i have been seeing him

393

00:17:45,430 --> 00:17:43,200

firsthand in the halls of the united

394

00:17:47,270 --> 00:17:45,440

states senate when the cameras are on

395

00:17:49,270 --> 00:17:47,280

and when the cameras are off and he's

396

00:17:51,190 --> 00:17:49,280

always the same person

397

00:17:52,870 --> 00:17:51,200

fighting for maryland

398

00:17:55,350 --> 00:17:52,880

fighting for what's right

399

00:17:58,549 --> 00:17:55,360

and doing it always in a way that is

400

00:18:01,750 --> 00:17:58,559

about elevating a discussion to require

401
00:18:04,549 --> 00:18:01,760
people to focus on what really impacts

402
00:18:05,990 --> 00:18:04,559
people in their lives every day senator

403
00:18:09,190 --> 00:18:06,000
van gaal and i want to thank you for

404
00:18:13,190 --> 00:18:09,200
your leadership every day thank you

405
00:18:18,549 --> 00:18:16,230
and i know our friend ben cardin was

406
00:18:20,230 --> 00:18:18,559
going to be here as well as majority

407
00:18:21,510 --> 00:18:20,240
leader stanny hoyer

408
00:18:24,070 --> 00:18:21,520
and i they

409
00:18:25,669 --> 00:18:24,080
unfortunately senator cardin um had to

410
00:18:28,789 --> 00:18:25,679
get on his way because he's going to go

411
00:18:30,310 --> 00:18:28,799
and represent the united states at cop26

412
00:18:32,310 --> 00:18:30,320
and so he's on his way and then of

413
00:18:34,150 --> 00:18:32,320

course majority leader hoyer is doing

414

00:18:36,549 --> 00:18:34,160

the work that bill nelson is talking

415

00:18:37,669 --> 00:18:36,559

about working hard at capitol hill but i

416

00:18:38,950 --> 00:18:37,679

do want to thank them for their

417

00:18:40,950 --> 00:18:38,960

leadership

418

00:18:43,029 --> 00:18:40,960

thank you also to the leaders of the

419

00:18:44,630 --> 00:18:43,039

national oceanic and atmospheric

420

00:18:46,230 --> 00:18:44,640

administration

421

00:18:49,510 --> 00:18:46,240

thank you to the united states

422

00:18:51,270 --> 00:18:49,520

geological survey and again thank you to

423

00:18:53,110 --> 00:18:51,280

all of you at nasa

424

00:18:57,669 --> 00:18:53,120

and in particular i want to thank you

425

00:19:00,470 --> 00:18:57,679

all for what you do to keep elevating

426
00:19:01,990 --> 00:19:00,480
the discourse and the imagination and

427
00:19:03,510 --> 00:19:02,000
the spirit

428
00:19:05,669 --> 00:19:03,520
of not only

429
00:19:08,150 --> 00:19:05,679
what can be done and who does that work

430
00:19:11,669 --> 00:19:08,160
here in the united states but you really

431
00:19:13,830 --> 00:19:11,679
do inspire people all over the world and

432
00:19:16,870 --> 00:19:13,840
there are many ways in which we can talk

433
00:19:19,110 --> 00:19:16,880
about the work that we do in space

434
00:19:22,870 --> 00:19:19,120
um you all know that but i'm going to

435
00:19:25,190 --> 00:19:22,880
talk today about the opportunity

436
00:19:31,350 --> 00:19:25,200
of space

437
00:19:33,669 --> 00:19:31,360
so it was 60 years ago that alan shepard

438
00:19:34,950 --> 00:19:33,679

became the first american to travel into

439

00:19:38,150 --> 00:19:34,960

space

440

00:19:40,150 --> 00:19:38,160

he was up there for only 15 minutes

441

00:19:42,390 --> 00:19:40,160

but the world waited

442

00:19:44,870 --> 00:19:42,400

with faded breath

443

00:19:47,590 --> 00:19:44,880

until his safe return

444

00:19:49,590 --> 00:19:47,600

alan shepard's short flight

445

00:19:52,390 --> 00:19:49,600

broke barriers

446

00:19:54,950 --> 00:19:52,400

literally and figuratively

447

00:19:57,510 --> 00:19:54,960

as have so many of you

448

00:20:00,150 --> 00:19:57,520

that flight gave president john f

449

00:20:01,270 --> 00:20:00,160

kennedy and vice president lyndon b

450

00:20:03,190 --> 00:20:01,280

johnson

451
00:20:06,390 --> 00:20:03,200
the confidence

452
00:20:10,230 --> 00:20:06,400
to set our energy and our resources

453
00:20:12,470 --> 00:20:10,240
toward putting an american on the moon

454
00:20:16,230 --> 00:20:12,480
in the decades since

455
00:20:17,990 --> 00:20:16,240
12 americans have walked on the moon

456
00:20:20,710 --> 00:20:18,000
and even more

457
00:20:22,870 --> 00:20:20,720
have orbited the earth

458
00:20:26,470 --> 00:20:22,880
in the decades since

459
00:20:30,149 --> 00:20:26,480
our nation has launched space stations

460
00:20:32,830 --> 00:20:30,159
and satellites sent rovers to mars and

461
00:20:34,710 --> 00:20:32,840
witnessed the birth of new

462
00:20:36,950 --> 00:20:34,720
stars

463
00:20:40,070 --> 00:20:36,960

with the technology

464

00:20:43,669 --> 00:20:40,080

we have developed to explore space from

465

00:20:48,310 --> 00:20:43,679

camera phones to cat scans

466

00:20:50,710 --> 00:20:48,320

we have improved life on earth

467

00:20:52,950 --> 00:20:50,720

with the perspective

468

00:20:55,270 --> 00:20:52,960

we have gained from space

469

00:20:57,029 --> 00:20:55,280

we have reminded

470

00:21:00,310 --> 00:20:57,039

many many folks

471

00:21:02,710 --> 00:21:00,320

and we have been reminded of how

472

00:21:06,710 --> 00:21:02,720

precious our earth

473

00:21:09,830 --> 00:21:06,720

really is and how delicate it is and how

474

00:21:12,950 --> 00:21:09,840

fragile it is

475

00:21:15,990 --> 00:21:12,960

but while the exploration of space

476

00:21:19,430 --> 00:21:16,000

defined the 20th century

477

00:21:21,750 --> 00:21:19,440

i believe that the opportunity of space

478

00:21:23,510 --> 00:21:21,760

will define the 21st

479

00:21:26,710 --> 00:21:23,520

century

480

00:21:28,630 --> 00:21:26,720

today our nation is more active in space

481

00:21:36,310 --> 00:21:28,640

than ever before

482

00:21:39,029 --> 00:21:36,320

that space can benefit humanity

483

00:21:42,549 --> 00:21:39,039

i believe it is incumbent on all of us

484

00:21:44,870 --> 00:21:42,559

then to seize all the ways in which

485

00:21:47,669 --> 00:21:44,880

space can help us solve

486

00:21:49,830 --> 00:21:47,679

our biggest challenges

487

00:21:52,950 --> 00:21:49,840

including that

488

00:21:54,789 --> 00:21:52,960

of the climate crisis

489

00:21:58,310 --> 00:21:54,799

the world leaders

490

00:21:59,990 --> 00:21:58,320

who gathered at cop 26 this week were

491

00:22:02,390 --> 00:22:00,000

very clear

492

00:22:04,070 --> 00:22:02,400

they were not ambiguous

493

00:22:05,909 --> 00:22:04,080

they didn't skirt around the issue they

494

00:22:08,549 --> 00:22:05,919

were clear and they were decisive and

495

00:22:12,310 --> 00:22:08,559

they were declarative

496

00:22:16,230 --> 00:22:12,320

climate change is an existential threat

497

00:22:18,390 --> 00:22:16,240

and we must take immediate action

498

00:22:21,029 --> 00:22:18,400

to address it

499

00:22:22,390 --> 00:22:21,039

as our nation works to meet our climate

500

00:22:25,270 --> 00:22:22,400

commitments

501
00:22:26,470 --> 00:22:25,280
we know that our actions cannot be

502
00:22:27,669 --> 00:22:26,480
limited

503
00:22:30,390 --> 00:22:27,679
to only

504
00:22:33,750 --> 00:22:30,400
what we can do on earth

505
00:22:35,270 --> 00:22:33,760
right at this minute we are monitoring

506
00:22:37,909 --> 00:22:35,280
emissions

507
00:22:40,630 --> 00:22:37,919
and measuring the impact of climate

508
00:22:43,350 --> 00:22:40,640
change from space

509
00:22:44,789 --> 00:22:43,360
we have a fleet of satellites and

510
00:22:47,270 --> 00:22:44,799
sensors

511
00:22:48,549 --> 00:22:47,280
providing citizens and scientists with

512
00:22:51,590 --> 00:22:48,559
the data

513
00:22:52,789 --> 00:22:51,600

that they that you need to mitigate the

514

00:22:58,470 --> 00:22:52,799

impact

515

00:23:00,230 --> 00:22:58,480

take landsat 9

516

00:23:01,270 --> 00:23:00,240

which was assembled of course here at

517

00:23:04,870 --> 00:23:01,280

goddard

518

00:23:08,149 --> 00:23:04,880

and launched into space last september

519

00:23:10,950 --> 00:23:08,159

as we just saw landsat 9 can provide

520

00:23:12,710 --> 00:23:10,960

real-time images of our nation's

521

00:23:15,669 --> 00:23:12,720

landscape

522

00:23:18,789 --> 00:23:15,679

as natural disasters are increasing in

523

00:23:20,230 --> 00:23:18,799

frequency and ferocity due to climate

524

00:23:22,710 --> 00:23:20,240

change

525

00:23:26,549 --> 00:23:22,720

these images can be used by first

526
00:23:30,070 --> 00:23:26,559
responders to help save lives

527
00:23:32,950 --> 00:23:30,080
these images can be used by farmers

528
00:23:34,470 --> 00:23:32,960
to assess their crops as drought and

529
00:23:36,710 --> 00:23:34,480
heat

530
00:23:40,390 --> 00:23:36,720
threaten their yield

531
00:23:43,029 --> 00:23:40,400
these images can be used by scientists

532
00:23:44,789 --> 00:23:43,039
who are working to combat climate change

533
00:23:47,669 --> 00:23:44,799
head on

534
00:23:50,230 --> 00:23:47,679
and another satellite within our fleet

535
00:23:52,630 --> 00:23:50,240
is at a university a local university

536
00:23:56,470 --> 00:23:52,640
that i recently visited hampton

537
00:23:59,110 --> 00:23:56,480
university in hbcu in virginia

538
00:24:00,630 --> 00:23:59,120

when i was on that campus i saw the aim

539

00:24:02,310 --> 00:24:00,640

satellite mission

540

00:24:04,870 --> 00:24:02,320

students there were working with

541

00:24:06,870 --> 00:24:04,880

scientists to understand the connections

542

00:24:09,909 --> 00:24:06,880

between climate change

543

00:24:12,870 --> 00:24:09,919

and atmospheric changes

544

00:24:14,710 --> 00:24:12,880

so here's the bottom line

545

00:24:19,110 --> 00:24:14,720

i truly believe

546

00:24:20,070 --> 00:24:19,120

space activity is climate action

547

00:24:21,590 --> 00:24:20,080

space

548

00:24:24,390 --> 00:24:21,600

activity

549

00:24:26,390 --> 00:24:24,400

is education

550

00:24:28,870 --> 00:24:26,400

space activity

551
00:24:31,029 --> 00:24:28,880
is also economic growth

552
00:24:32,710 --> 00:24:31,039
it is also innovation

553
00:24:35,350 --> 00:24:32,720
and inspiration

554
00:24:37,510 --> 00:24:35,360
and it is about our security

555
00:24:39,350 --> 00:24:37,520
and our strength

556
00:24:41,510 --> 00:24:39,360
so as chair

557
00:24:43,590 --> 00:24:41,520
of the national space council i will

558
00:24:45,029 --> 00:24:43,600
convene leaders from across our

559
00:24:47,110 --> 00:24:45,039
administration

560
00:24:48,789 --> 00:24:47,120
for an inaugural council meeting on

561
00:24:50,789 --> 00:24:48,799
december 1st

562
00:24:53,430 --> 00:24:50,799
really looking forward to that

563
00:24:55,510 --> 00:24:53,440

and at that meeting we will outline a

564

00:24:58,710 --> 00:24:55,520

comprehensive framework

565

00:25:00,950 --> 00:24:58,720

for our nation's space priorities

566

00:25:02,390 --> 00:25:00,960

from our civilian efforts like those we

567

00:25:04,390 --> 00:25:02,400

have seen today

568

00:25:05,909 --> 00:25:04,400

to our military and national security

569

00:25:08,390 --> 00:25:05,919

efforts

570

00:25:11,909 --> 00:25:08,400

to stem education

571

00:25:15,029 --> 00:25:11,919

and the emerging space economy

572

00:25:17,190 --> 00:25:15,039

and what is abundantly clear

573

00:25:18,310 --> 00:25:17,200

is that when it comes to our space

574

00:25:21,510 --> 00:25:18,320

activity

575

00:25:23,510 --> 00:25:21,520

there is limitless potential

576

00:25:26,789 --> 00:25:23,520

when alan shepard

577

00:25:29,830 --> 00:25:26,799

launched into space 60 years ago

578

00:25:31,830 --> 00:25:29,840

he named his space capsule

579

00:25:35,110 --> 00:25:31,840

the freedom 7

580

00:25:37,510 --> 00:25:35,120

to honor nasa's first group of seven

581

00:25:40,149 --> 00:25:37,520

astronauts

582

00:25:46,230 --> 00:25:42,950

freedom is not just about the feeling of

583

00:25:47,830 --> 00:25:46,240

flying through space at 5 000 miles per

584

00:25:49,110 --> 00:25:47,840

hour

585

00:25:51,669 --> 00:25:49,120

freedom

586

00:25:54,390 --> 00:25:51,679

is about opportunity

587

00:25:58,230 --> 00:25:54,400

so as we go forth from here

588

00:25:59,590 --> 00:25:58,240

let us continue to seize the opportunity

589

00:26:02,230 --> 00:25:59,600

of space

590

00:26:05,750 --> 00:26:02,240

and again i thank you all

591

00:26:08,230 --> 00:26:05,760

for the work you do each and every day

592

00:26:11,590 --> 00:26:08,240

the work you are doing will impact

593

00:26:12,630 --> 00:26:11,600

people around our globe around this

594

00:26:15,029 --> 00:26:12,640

beautiful

595

00:26:16,310 --> 00:26:15,039

precious planet we call earth

596

00:26:18,070 --> 00:26:16,320

and i cannot

597

00:26:22,920 --> 00:26:18,080

thank you enough