



TIMOTHY GALLAUDET

“How the U.S. Government’s
Apparent UAP Apathy is a case
of Misplaced Priorities”



1
00:00:02,190 --> 00:00:33,750

[Music]

2
00:00:39,030 --> 00:00:37,030

[Applause]

3
00:00:41,229 --> 00:00:39,040

hi everybody my name is Tim galet I am a

4
00:00:44,110 --> 00:00:41,239

retired Admiral worked in the Navy for

5
00:00:46,069 --> 00:00:44,120

32 years and uh and then went into a

6
00:00:48,630 --> 00:00:46,079

government agency which I'll talk about

7
00:00:50,750 --> 00:00:48,640

uh now I'm a private consultant and uh I

8
00:00:52,150 --> 00:00:50,760

got into this Arena um through

9
00:00:54,750 --> 00:00:52,160

interesting way which I'll share with

10
00:00:57,310 --> 00:00:54,760

you but I just want to start off and say

11
00:00:59,389 --> 00:00:57,320

it's an honor to be with you all I'm

12
00:01:01,470 --> 00:00:59,399

keenly aware that I'm an infant in this

13
00:01:04,509 --> 00:01:01,480

subject and I'm standing on the

14

00:01:09,109 --> 00:01:04,519

shoulders of many giants like Gary and

15

00:01:10,990 --> 00:01:09,119

Chris and jacqu and Hal and so uh I hope

16

00:01:12,990 --> 00:01:11,000

that I can contribute in some way and

17

00:01:14,590 --> 00:01:13,000

it's uh really terrific to be here tomor

18

00:01:16,789 --> 00:01:14,600

yesterday is going to be really tough to

19

00:01:19,350 --> 00:01:16,799

top uh but hopefully I'll start things

20

00:01:21,630 --> 00:01:19,360

off right I also want to thank uh Peter

21

00:01:23,350 --> 00:01:21,640

you and your team for uh providing such

22

00:01:24,910 --> 00:01:23,360

great accommodations for the speakers

23

00:01:27,950 --> 00:01:24,920

we're I think we're all staying at this

24

00:01:30,310 --> 00:01:27,960

hotel noou it's a Japanese themed hotel

25

00:01:32,670 --> 00:01:30,320

I had a I had a tour in Japan and it was

26

00:01:34,789 --> 00:01:32,680

nice for me to kind of relive some of

27

00:01:37,270 --> 00:01:34,799

that and uh and see some of the probably

28

00:01:39,950 --> 00:01:37,280

what is the the most the cultural icon

29

00:01:42,590 --> 00:01:39,960

of Japan and that's the luxury

30

00:01:43,910 --> 00:01:42,600

toilet and uh but actually if anybody

31

00:01:46,310 --> 00:01:43,920

who's staying at this hotel it's really

32

00:01:48,230 --> 00:01:46,320

an AI toilet which if it's got

33

00:01:50,429 --> 00:01:48,240

everything bells and whistles and

34

00:01:53,429 --> 00:01:50,439

whatever okay

35

00:01:57,069 --> 00:01:53,439

um soell and whistles that's right

36

00:01:59,429 --> 00:01:57,079

that's right anyways so um first off I

37

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

want to begin the the discussion just by

38

00:02:05,590 --> 00:02:01,840

U reflecting on Peter's presentation

39

00:02:07,310 --> 00:02:05,600

yesterday uh I'm a scuba diver and I'm a

40

00:02:10,229 --> 00:02:07,320

naturalist and I I just visited the

41

00:02:12,390 --> 00:02:10,239

galpagos islands with my wife and what I

42

00:02:15,390 --> 00:02:12,400

kind of struck me when I was there is

43

00:02:18,229 --> 00:02:15,400

the incredible diversity of of life in

44

00:02:20,550 --> 00:02:18,239

the galpagos islands and it's kind of

45

00:02:22,390 --> 00:02:20,560

uh on your presentation Peter it made me

46

00:02:25,390 --> 00:02:22,400

think that why wouldn't there be a

47

00:02:27,150 --> 00:02:25,400

diversity of non-human intelligence one

48

00:02:29,430 --> 00:02:27,160

first of all biologically these are all

49

00:02:32,110 --> 00:02:29,440

non-human intelligences right here and

50

00:02:35,190 --> 00:02:32,120

when you go underneath the sea it's

51
00:02:37,470 --> 00:02:35,200
remarkable how how um just fascinating

52
00:02:39,910 --> 00:02:37,480
different life forms are but at the same

53
00:02:42,710 --> 00:02:39,920
maybe biological non-biological

54
00:02:45,589 --> 00:02:42,720
diversity in intelligences is this is

55
00:02:47,509 --> 00:02:45,599
just something to think about but um my

56
00:02:50,270 --> 00:02:47,519
presentation is going to focus on a more

57
00:02:54,270 --> 00:02:50,280
mundane topic pardon me and that's the

58
00:02:55,430 --> 00:02:54,280
government how uh so many people are Mis

59
00:02:57,710 --> 00:02:55,440
understanding what's going on with the

60
00:03:00,390 --> 00:02:57,720
government and their reaction to UAP and

61
00:03:01,830 --> 00:03:00,400
having I don't know I guess the um

62
00:03:05,030 --> 00:03:01,840
stubbornness to stay in the government

63
00:03:08,030 --> 00:03:05,040

for 36 years and people like Chris and

64

00:03:10,430 --> 00:03:08,040

Carl both know what that's like um I

65

00:03:12,030 --> 00:03:10,440

thought it'd be helpful to explain uh

66

00:03:13,949 --> 00:03:12,040

the I guess just the what's going on

67

00:03:15,229 --> 00:03:13,959

right now and this will help inform Soul

68

00:03:17,830 --> 00:03:15,239

going forward with the policy

69

00:03:20,070 --> 00:03:17,840

recommendations Etc so uh but quick

70

00:03:21,670 --> 00:03:20,080

about me again at 32 years in the Navy

71

00:03:25,309 --> 00:03:21,680

this is my dad saring me in at the Naval

72

00:03:27,589 --> 00:03:25,319

Academy in 1985 and I for 32 years I was

73

00:03:29,710 --> 00:03:27,599

an oceanographer and I I just loved it

74

00:03:31,949 --> 00:03:29,720

um I then LED this agency the national

75

00:03:34,670 --> 00:03:31,959

Oceanic and Atmospheric Administration

76

00:03:37,990 --> 00:03:34,680

and this is the nation's climate weather

77

00:03:41,429 --> 00:03:38,000

Ocean agency and we had uh basically

78

00:03:43,789 --> 00:03:41,439

20,000 people that uh with A7 billion

79

00:03:46,229 --> 00:03:43,799

annual budget 18 satellites

80

00:03:47,390 --> 00:03:46,239

environmental satellites 16 ships nine

81

00:03:50,550 --> 00:03:47,400

aircraft some of which fly through

82

00:03:53,110 --> 00:03:50,560

hurricanes and a whole Armada of boats

83

00:03:55,949 --> 00:03:53,120

and scuba divers characterizing and

84

00:03:58,190 --> 00:03:55,959

predicting and managing our ocean

85

00:03:59,990 --> 00:03:58,200

resources and it was a thrill and this

86

00:04:02,630 --> 00:04:00,000

is going to this is going to sort of of

87

00:04:05,270 --> 00:04:02,640

uh be the content of of my examples when

88

00:04:08,149 --> 00:04:05,280

I speak about how the government can

89

00:04:11,110 --> 00:04:08,159

work well and when it doesn't um and

90

00:04:12,789 --> 00:04:11,120

then of course just about me I uh I am a

91

00:04:15,830 --> 00:04:12,799

my favorite jobs are I'm a husband and a

92

00:04:17,509 --> 00:04:15,840

father to these fine people and uh I've

93

00:04:19,030 --> 00:04:17,519

told some people this but my wife Karen

94

00:04:21,469 --> 00:04:19,040

was in the Navy and we met at graduate

95

00:04:23,710 --> 00:04:21,479

school studying oceanography and she's

96

00:04:25,670 --> 00:04:23,720

the entire reason I'm here I've always

97

00:04:28,990 --> 00:04:25,680

been fascinated with UAP but she's the

98

00:04:31,390 --> 00:04:29,000

one who said Tim you have a voice you

99

00:04:33,469 --> 00:04:31,400

you need to use it and and so if I

100

00:04:40,590 --> 00:04:33,479

contribute anything good today and going

101
00:04:46,590 --> 00:04:43,230
credit and I also want to point out my

102
00:04:49,150 --> 00:04:46,600
three daughters um I'm really pleased

103
00:04:50,870 --> 00:04:49,160
that we have women in this room leading

104
00:04:54,070 --> 00:04:50,880
the discussions and the thought like

105
00:04:56,830 --> 00:04:54,080
Diana and IIA and beatric and Leslie

106
00:04:58,510 --> 00:04:56,840
wherever you are Leslie uh wonderful uh

107
00:05:01,390 --> 00:04:58,520
that's that's a great thing because I I

108
00:05:05,270 --> 00:05:01,400
think most of the the history of UAP in

109
00:05:08,110 --> 00:05:05,280
the study has been dominated by white

110
00:05:09,870 --> 00:05:08,120
men and I think we we do seeing more

111
00:05:15,350 --> 00:05:09,880
diversity in the topic and in the

112
00:05:21,790 --> 00:05:19,230
you I appreciate that so my interest in

113
00:05:23,230 --> 00:05:21,800

UAP was a lot like beatrix because I was

114

00:05:25,510 --> 00:05:23,240

the superintendent of the Naval

115

00:05:28,070 --> 00:05:25,520

Observatory and that slide you put about

116

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

how big the Milky Way galaxy is and and

117

00:05:32,430 --> 00:05:30,240

how how big the universe is I got to

118

00:05:35,550 --> 00:05:32,440

appreciate that in a big way leading the

119

00:05:37,749 --> 00:05:35,560

astrophysicists at this terrific agency

120

00:05:40,309 --> 00:05:37,759

and um and and so I had thought about

121

00:05:42,550 --> 00:05:40,319

that deeply from my time here read a lot

122

00:05:43,950 --> 00:05:42,560

on cosmology and astrophysics and so to

123

00:05:46,110 --> 00:05:43,960

think that we're the only intelligent

124

00:05:48,270 --> 00:05:46,120

species in the universe is incredibly

125

00:05:50,790 --> 00:05:48,280

arrogant and and that's that's sort of

126

00:05:54,430 --> 00:05:50,800

the what I took away from that job but

127

00:05:56,469 --> 00:05:54,440

then I had if you will an experience and

128

00:05:58,510 --> 00:05:56,479

some this is a bit of a repeat from my

129

00:06:00,309 --> 00:05:58,520

SCU talk earlier this year but I think a

130

00:06:01,870 --> 00:06:00,319

lot of people have not heard it

131

00:06:04,070 --> 00:06:01,880

uh so when I was a one-star Admiral

132

00:06:05,710 --> 00:06:04,080

working for us Fleet forces command in

133

00:06:07,950 --> 00:06:05,720

Norfolk a four-star Admiral command in

134

00:06:10,510 --> 00:06:07,960

charge of all the ships in the Navy that

135

00:06:14,189 --> 00:06:10,520

are training Stateside they were running

136

00:06:16,790 --> 00:06:14,199

an exercise in 2014 to 2015 where Ryan

137

00:06:19,870 --> 00:06:16,800

Graves was operating in he was flying

138

00:06:22,350 --> 00:06:19,880

his F-18 Hornet Super Hornet off the USS

139

00:06:24,950 --> 00:06:22,360

theater Roosevelt my job I was the chief

140

00:06:26,510 --> 00:06:24,960

meteorologist of the Navy and so all my

141

00:06:28,589 --> 00:06:26,520

weather guessers meteorologists or

142

00:06:31,189 --> 00:06:28,599

aerograph were on Navy ships like the

143

00:06:34,150 --> 00:06:31,199

USS theater r forecasting weather very

144

00:06:37,469 --> 00:06:34,160

critical safety of flight Mission and

145

00:06:39,629 --> 00:06:37,479

during that time uh I received a email

146

00:06:41,390 --> 00:06:39,639

on the Navy secret network from my boss

147

00:06:43,790 --> 00:06:41,400

the operations officer at Fleet forces

148

00:06:45,830 --> 00:06:43,800

command he was a two-star Admiral all

149

00:06:48,350 --> 00:06:45,840

the ades were one and two star Admirals

150

00:06:50,550 --> 00:06:48,360

like me I was in a support command

151

00:06:53,629 --> 00:06:50,560

others were operational like St grou

152

00:06:55,909 --> 00:06:53,639

commanders the Roosevelt and others and

153

00:06:58,270 --> 00:06:55,919

uh and the the topic of the email was

154

00:07:00,510 --> 00:06:58,280

urgent safety of flight issue and the

155

00:07:02,270 --> 00:07:00,520

content of the email was fairly brief it

156

00:07:05,869 --> 00:07:02,280

just said if any of you know what these

157

00:07:07,469 --> 00:07:05,879

are tell me ASAP we're having numerous

158

00:07:08,990 --> 00:07:07,479

near midair collisions and we're going

159

00:07:11,950 --> 00:07:09,000

to have to shut the exercise down if we

160

00:07:14,350 --> 00:07:11,960

don't stop and attached was the goast

161

00:07:16,790 --> 00:07:14,360

video that everyone's seen now and this

162

00:07:19,390 --> 00:07:16,800

was and so a lot of my thought

163

00:07:22,390 --> 00:07:19,400

beforehand was crystallized in that I

164

00:07:25,070 --> 00:07:22,400

knew that was not our technology because

165

00:07:27,550 --> 00:07:25,080

we the US government's research and

166

00:07:30,230 --> 00:07:27,560

development Enterprise does not test and

167

00:07:32,390 --> 00:07:30,240

evaluate in training ranges for the

168

00:07:33,830 --> 00:07:32,400

safety issues they were causing so I I

169

00:07:35,350 --> 00:07:33,840

knew immediately that was not ours it

170

00:07:36,909 --> 00:07:35,360

wasn't our adversaries I was pretty read

171

00:07:39,589 --> 00:07:36,919

into all of our adver adversaries

172

00:07:43,110 --> 00:07:39,599

Advanced Technologies and and then I

173

00:07:46,029 --> 00:07:43,120

knew and uh and so I didn't say much but

174

00:07:47,950 --> 00:07:46,039

the next day my email was wiped from my

175

00:07:51,070 --> 00:07:47,960

computer and everybody else who received

176

00:07:53,070 --> 00:07:51,080

it and then even worse in terms of the

177

00:07:55,110 --> 00:07:53,080

reaction uh I would go to weekly

178

00:07:57,390 --> 00:07:55,120

meetings with all the people who were at

179

00:07:59,510 --> 00:07:57,400

ease on that email with my boss and his

180

00:08:03,070 --> 00:07:59,520

his operations officer and no one ever

181

00:08:05,510 --> 00:08:03,080

talked about it this was having Ryan and

182

00:08:07,909 --> 00:08:05,520

his fellow Pilots a major safety flight

183

00:08:11,270 --> 00:08:07,919

issue he was having to develop the own

184

00:08:13,029 --> 00:08:11,280

mitigation measures on himself and what

185

00:08:15,149 --> 00:08:13,039

this whole over classification issue

186

00:08:16,830 --> 00:08:15,159

because it was obviously a sap I knew

187

00:08:19,510 --> 00:08:16,840

that and that's why I never spoke about

188

00:08:21,189 --> 00:08:19,520

it at those meetings but that that over

189

00:08:24,749 --> 00:08:21,199

classification if you want to call it

190

00:08:27,350 --> 00:08:24,759

that was forcing a failure in leadership

191

00:08:28,869 --> 00:08:27,360

that I couldn't or my fellow Admirals

192

00:08:31,270 --> 00:08:28,879

could not look out for Ryan and his

193

00:08:32,589 --> 00:08:31,280

fellow pilots and that that that is a

194

00:08:34,310 --> 00:08:32,599

problem and that's something we have to

195

00:08:35,949 --> 00:08:34,320

correct and that's why I'm speaking out

196

00:08:37,909 --> 00:08:35,959

about this and I seriously don't know

197

00:08:41,350 --> 00:08:37,919

why other Admirals and who are retired

198

00:08:43,110 --> 00:08:41,360

aren't either but now uh so I support

199

00:08:46,150 --> 00:08:43,120

Ryan's Americans for safe Aerospace I'm

200

00:08:51,990 --> 00:08:46,160

on his Advisory Board and yes I think

201
00:08:57,190 --> 00:08:54,829
you and he's doing a terrific thing in

202
00:09:00,069 --> 00:08:57,200
encouraging the FAA and commercial

203
00:09:02,069 --> 00:09:00,079
pilots RIT large to to not be afraid to

204
00:09:04,269 --> 00:09:02,079
report to improve our understanding of

205
00:09:06,470 --> 00:09:04,279
what's Happening Here and to make our

206
00:09:08,550 --> 00:09:06,480
Aerospace safe so just a really terrific

207
00:09:11,509 --> 00:09:08,560
Mission and I'm supporting based on my

208
00:09:14,509 --> 00:09:11,519
background but also I've joined ai's uh

209
00:09:15,990 --> 00:09:14,519
project it's a great photo huh uh and uh

210
00:09:18,630 --> 00:09:16,000
because I'm really keen on the

211
00:09:21,150 --> 00:09:18,640
scientific method and his application of

212
00:09:23,430 --> 00:09:21,160
it to UAP research and he's just a

213
00:09:24,990 --> 00:09:23,440

delight to be around and learn from um

214

00:09:27,910 --> 00:09:25,000

and where I want to go with that

215

00:09:29,670 --> 00:09:27,920

scientific research UAP is somewhere

216

00:09:31,790 --> 00:09:29,680

that suits me and that's that's that's

217

00:09:33,470 --> 00:09:31,800

the the undersea piece because that's

218

00:09:36,389 --> 00:09:33,480

what I know that's my network that's my

219

00:09:39,230 --> 00:09:36,399

knowledge and and we know we know we

220

00:09:41,150 --> 00:09:39,240

we've observed these going trans medium

221

00:09:42,829 --> 00:09:41,160

and in fact just in the year and a half

222

00:09:45,550 --> 00:09:42,839

or so that I've become active and have

223

00:09:48,949 --> 00:09:45,560

started interviewing people I have met

224

00:09:51,590 --> 00:09:48,959

dozens of people who commercial military

225

00:09:53,910 --> 00:09:51,600

coast guard Mariners and submariners who

226

00:09:56,069 --> 00:09:53,920

have had observations I don't have any

227

00:09:58,630 --> 00:09:56,079

data yet that's the next step but this

228

00:10:02,030 --> 00:09:58,640

is several dozen people that have seen

229

00:10:03,910 --> 00:10:02,040

phenomenal in our oceans in the tropical

230

00:10:06,350 --> 00:10:03,920

Eastern Western Pacific the Gul of

231

00:10:08,190 --> 00:10:06,360

Mexico the Caribbean the Mediterranean

232

00:10:11,030 --> 00:10:08,200

and the Indian Ocean and and the North

233

00:10:13,990 --> 00:10:11,040

Atlantic and Eastern Seaboard so this is

234

00:10:15,710 --> 00:10:14,000

happening and I'm working working to get

235

00:10:18,269 --> 00:10:15,720

a better understanding of it and get

236

00:10:20,509 --> 00:10:18,279

data and um and I'll talk a little bit

237

00:10:23,190 --> 00:10:20,519

about that what's interesting is the

238

00:10:25,350 --> 00:10:23,200

increasing acceptance of this so this

239

00:10:27,630 --> 00:10:25,360

gentleman Victor vova was really the

240

00:10:30,550 --> 00:10:27,640

equivalent of Neil Armstrong um for the

241

00:10:32,910 --> 00:10:30,560

UN for the ocean in 2019 I partnered

242

00:10:35,350 --> 00:10:32,920

with him when I was leading Noah uh and

243

00:10:37,190 --> 00:10:35,360

he conducted this expedition to dive in

244

00:10:38,629 --> 00:10:37,200

all the Deep trenches of the world with

245

00:10:40,870 --> 00:10:38,639

that that deep diving submersible you

246

00:10:43,110 --> 00:10:40,880

see there and uh he he did this on his

247

00:10:45,670 --> 00:10:43,120

own dime and he shared the data with us

248

00:10:47,350 --> 00:10:45,680

and we put his our scientist on his ship

249

00:10:50,350 --> 00:10:47,360

and it was just a really terrific

250

00:10:52,509 --> 00:10:50,360

Expedition or worldwide but afterwards

251
00:10:54,069 --> 00:10:52,519
in 2021 he let me know he was going to

252
00:10:55,150 --> 00:10:54,079
test out a new sonar on a ship and he

253
00:10:57,910 --> 00:10:55,160
was going to do it off Southern

254
00:10:59,870 --> 00:10:57,920
California and I thought ah okay well we

255
00:11:02,230 --> 00:10:59,880
know we observed UAP going in and out of

256
00:11:03,670 --> 00:11:02,240
the water and places around SoCal and I

257
00:11:05,829 --> 00:11:03,680
didn't know his thought on this topic

258
00:11:08,790 --> 00:11:05,839
but I sent him an email and said do you

259
00:11:10,190 --> 00:11:08,800
want to do an expedition like none other

260
00:11:12,030 --> 00:11:10,200
uh I have some coordinates for you if

261
00:11:13,750 --> 00:11:12,040
you want to look and because I thought

262
00:11:16,230 --> 00:11:13,760
possibly we might want to see if there

263
00:11:18,230 --> 00:11:16,240

are evidences of these interacting with

264

00:11:20,230 --> 00:11:18,240

the seabed or even under sea

265

00:11:23,590 --> 00:11:20,240

infrastructure that might be places they

266

00:11:26,590 --> 00:11:23,600

go and uh he wrote me back and he said

267

00:11:28,790 --> 00:11:26,600

send me the coordinates and so I he did

268

00:11:29,629 --> 00:11:28,800

that he mapped these areas and he found

269

00:11:31,150 --> 00:11:29,639

one

270

00:11:33,949 --> 00:11:31,160

feature that we identified before and

271

00:11:35,790 --> 00:11:33,959

mapped it that I think is anomalous I

272

00:11:37,750 --> 00:11:35,800

can't find a GE a marine geological

273

00:11:39,389 --> 00:11:37,760

explanation for it so our next step is

274

00:11:41,790 --> 00:11:39,399

to get a ROV on it and that's that's in

275

00:11:43,350 --> 00:11:41,800

the works it could be geology but the

276

00:11:45,110 --> 00:11:43,360

the folks I've sended to really have a

277

00:11:48,509 --> 00:11:45,120

hard time explaining it but anyways we

278

00:11:51,310 --> 00:11:48,519

have that and then uh I am uh I occupy

279

00:11:53,389 --> 00:11:51,320

two national body boards uh on the ocean

280

00:11:55,590 --> 00:11:53,399

one's the ocean studies board at the

281

00:11:58,030 --> 00:11:55,600

nationally this other reports to the

282

00:12:00,629 --> 00:11:58,040

White House Ocean policy committee and

283

00:12:02,509 --> 00:12:00,639

uh and so my goal is to make undersea

284

00:12:05,470 --> 00:12:02,519

and transm medium UAP research a

285

00:12:08,069 --> 00:12:05,480

national ocean science priority not

286

00:12:09,910 --> 00:12:08,079

there yet wish me luck but we have some

287

00:12:11,509 --> 00:12:09,920

progress this man right here is Admiral

288

00:12:13,670 --> 00:12:11,519

retired Gary ruffed former Chief of

289

00:12:16,310 --> 00:12:13,680

Naval operations now he's the chair of

290

00:12:18,389 --> 00:12:16,320

the naval studies board at the

291

00:12:20,470 --> 00:12:18,399

nationally similar to the ocean studies

292

00:12:22,550 --> 00:12:20,480

board but has a perview of classified

293

00:12:24,310 --> 00:12:22,560

information and I briefed him on this

294

00:12:27,910 --> 00:12:24,320

and I recommended that we look at all

295

00:12:29,470 --> 00:12:27,920

the ocean data that the government has

296

00:12:31,430 --> 00:12:29,480

Naval oceanographic office which I used

297

00:12:35,189 --> 00:12:31,440

to be in charge of Office of Naval

298

00:12:37,590 --> 00:12:35,199

intelligence and my agency Noah and see

299

00:12:39,829 --> 00:12:37,600

if we see any anomalous features in the

300

00:12:42,509 --> 00:12:39,839

data and uh and he thought it was a good

301

00:12:44,230 --> 00:12:42,519

idea and he he approved it in principle

302

00:12:46,350 --> 00:12:44,240

uh my next step is to get funding from

303

00:12:48,710 --> 00:12:46,360

those agencies and right now that's

304

00:12:50,069 --> 00:12:48,720

difficult and you'll see why as I go on

305

00:12:53,150 --> 00:12:50,079

U but that's that's all kind of the

306

00:12:55,949 --> 00:12:53,160

background here the main points I wanted

307

00:12:59,389 --> 00:12:55,959

to get here yeah how about this article

308

00:13:00,949 --> 00:12:59,399

um this was interesting but is is a

309

00:13:02,990 --> 00:13:00,959

little bit understanding about the

310

00:13:05,030 --> 00:13:03,000

government's response and and how to

311

00:13:07,110 --> 00:13:05,040

work with the government going forward

312

00:13:09,550 --> 00:13:07,120

so first off some examples from my

313

00:13:11,509 --> 00:13:09,560

history uh when I was at Noah in the

314

00:13:14,110 --> 00:13:11,519

last Administration this was my only

315

00:13:16,189 --> 00:13:14,120

Oval Office visit and it was a

316

00:13:18,470 --> 00:13:16,199

bipartisan Bill the president signed you

317

00:13:20,350 --> 00:13:18,480

see Senator suent republican from Alaska

318

00:13:22,310 --> 00:13:20,360

Senator White House Democrat from Rhode

319

00:13:24,750 --> 00:13:22,320

Island backing this bill I'm with

320

00:13:27,230 --> 00:13:24,760

Secretary of Commerce will baross and he

321

00:13:29,350 --> 00:13:27,240

signed it which was a great thing uh I

322

00:13:31,550 --> 00:13:29,360

never did a noval office visit after

323

00:13:33,430 --> 00:13:31,560

that because this was before Trump got

324

00:13:35,389 --> 00:13:33,440

as erratic and dangerous as he was and

325

00:13:37,310 --> 00:13:35,399

I'm just going to say that so I am not

326

00:13:39,310 --> 00:13:37,320

endorsing Trump in any way right here

327

00:13:41,550 --> 00:13:39,320

but I and I actually almost quit

328

00:13:43,470 --> 00:13:41,560

numerous times but I never had to

329

00:13:45,069 --> 00:13:43,480

compromise my integrity and I thought I

330

00:13:47,550 --> 00:13:45,079

thought our scientists needed good

331

00:13:49,750 --> 00:13:47,560

leadership so I stayed but at any rate

332

00:13:52,430 --> 00:13:49,760

this was a win we thought but going

333

00:13:54,550 --> 00:13:52,440

forward the White House defunded Us by

334

00:13:56,550 --> 00:13:54,560

about a billion dollars every year in

335

00:13:58,389 --> 00:13:56,560

the president's budget for the the four

336

00:14:00,389 --> 00:13:58,399

years I was in so we never had the money

337

00:14:02,430 --> 00:14:00,399

to do do it and so that's just an

338

00:14:06,310 --> 00:14:02,440

example of how the government works and

339

00:14:08,949 --> 00:14:06,320

doesn't sometimes and so uh one of many

340

00:14:10,230 --> 00:14:08,959

examples but um luckily Congress

341

00:14:11,829 --> 00:14:10,240

appropriated the money and we were still

342

00:14:14,629 --> 00:14:11,839

able to execute this great program to

343

00:14:16,350 --> 00:14:14,639

clean up our oceans um another one might

344

00:14:18,710 --> 00:14:16,360

be from this Administration and again

345

00:14:20,310 --> 00:14:18,720

I'm not trying to pick sides but so

346

00:14:22,230 --> 00:14:20,320

President Biden has been a champion for

347

00:14:24,470 --> 00:14:22,240

climate change response and and

348

00:14:26,110 --> 00:14:24,480

mitigation and greenhouse gas emission

349

00:14:28,749 --> 00:14:26,120

reductions are a big part of that and I

350

00:14:30,350 --> 00:14:28,759

think that's fine Renewables good uh we

351

00:14:32,710 --> 00:14:30,360

we are seeing global warming it is a

352

00:14:35,269 --> 00:14:32,720

good thing to curb it and eliminate it

353

00:14:38,030 --> 00:14:35,279

if possible um lot to say about that but

354

00:14:39,749 --> 00:14:38,040

one thing I have a problem with is these

355

00:14:43,069 --> 00:14:39,759

plans that White House put out for the

356

00:14:44,550 --> 00:14:43,079

dod the Navy and the dod are taking a

357

00:14:46,870 --> 00:14:44,560

doing a lot of work to reduce their

358

00:14:49,110 --> 00:14:46,880

emissions and it's just a drop in the

359

00:14:50,790 --> 00:14:49,120

bucket for what the US does r at large

360

00:14:52,990 --> 00:14:50,800

and it's a big distraction for what we

361

00:14:55,230 --> 00:14:53,000

really care about in in the dod and

362

00:14:57,150 --> 00:14:55,240

that's right now China Russia Iran North

363

00:14:58,670 --> 00:14:57,160

Korea and so I I just thought that

364

00:15:00,629 --> 00:14:58,680

that's just not a really to me that's a

365

00:15:02,590 --> 00:15:00,639

misplaced priority the dod should be

366

00:15:05,350 --> 00:15:02,600

focused on its Mission and we can work

367

00:15:07,550 --> 00:15:05,360

with the energy industry and doe to

368

00:15:09,629 --> 00:15:07,560

address climate so that's just one

369

00:15:11,310 --> 00:15:09,639

example and I mean here's the data us

370

00:15:13,550 --> 00:15:11,320

emissions have been dropping that's the

371

00:15:15,310 --> 00:15:13,560

b lower line and China's emissions are

372

00:15:17,790 --> 00:15:15,320

going through the roof they just built

373

00:15:21,110 --> 00:15:17,800

six coal plants that are more capacity

374

00:15:23,470 --> 00:15:21,120

than the entire world uh have for CO2

375

00:15:26,150 --> 00:15:23,480

emissions so we're not going to do a

376

00:15:28,430 --> 00:15:26,160

whole lot and if we task our Navy to do

377

00:15:30,150 --> 00:15:28,440

this it's not going to make a difference

378

00:15:32,790 --> 00:15:30,160

but that's just an example of sometimes

379

00:15:35,389 --> 00:15:32,800

priorities not being Square here is one

380

00:15:37,949 --> 00:15:35,399

where I think we got it right and and

381

00:15:40,710 --> 00:15:37,959

this was this issue of ocean mapping now

382

00:15:43,790 --> 00:15:40,720

our oceans are we I think betrix you

383

00:15:46,550 --> 00:15:43,800

talked about under sampling of of the uh

384

00:15:49,509 --> 00:15:46,560

the solar system Etc the ocean is one of

385

00:15:51,710 --> 00:15:49,519

the most undersampled spaces we know of

386

00:15:53,870 --> 00:15:51,720

and we haven't even mapped the seabed of

387

00:15:55,910 --> 00:15:53,880

our own exclusive economic zone by more

388

00:15:58,350 --> 00:15:55,920

than a half and we have not even

389

00:15:59,110 --> 00:15:58,360

explored the ocean volume only about 10%

390

00:16:01,509 --> 00:15:59,120

of it

391

00:16:03,509 --> 00:16:01,519

and so I put forth a proposal to the

392

00:16:06,230 --> 00:16:03,519

White House to develop a national

393

00:16:07,629 --> 00:16:06,240

strategy to map and explore oceans and

394

00:16:10,069 --> 00:16:07,639

they took it they took it on board and

395

00:16:11,829 --> 00:16:10,079

we had a we had a summit with Academia

396

00:16:13,910 --> 00:16:11,839

and private sector leaders we had all

397

00:16:15,509 --> 00:16:13,920

the agencies involved and and bottom

398

00:16:16,910 --> 00:16:15,519

line the plan still in place they're

399

00:16:19,389 --> 00:16:16,920

executing it and what you have is you

400

00:16:21,550 --> 00:16:19,399

have four really key elements of any

401
00:16:23,990 --> 00:16:21,560
government effort to work we had

402
00:16:25,829 --> 00:16:24,000
legislation so support from the Congress

403
00:16:28,069 --> 00:16:25,839
we had so we had a we then pass a law on

404
00:16:30,509 --> 00:16:28,079
Ocean mapping we had an the White House

405
00:16:32,990 --> 00:16:30,519
put out a plan a national strategy and

406
00:16:35,509 --> 00:16:33,000
plan to map our oceans and explore them

407
00:16:38,350 --> 00:16:35,519
and then we had an inter agency Council

408
00:16:41,470 --> 00:16:38,360
to to organize and and and the efforts

409
00:16:43,030 --> 00:16:41,480
across the government and to um make

410
00:16:45,150 --> 00:16:43,040
sure that plan was being followed to

411
00:16:46,829 --> 00:16:45,160
implement the plan and then lastly we

412
00:16:49,790 --> 00:16:46,839
had a federal advisory committee we had

413
00:16:51,430 --> 00:16:49,800

two in this case that that senior people

414

00:16:53,910 --> 00:16:51,440

thought leaders that could advise us to

415

00:16:56,350 --> 00:16:53,920

do it right and and so you sort of have

416

00:16:58,189 --> 00:16:56,360

that with the UAP legislation with the

417

00:17:00,030 --> 00:16:58,199

the the review panel But ultimately

418

00:17:02,949 --> 00:17:00,040

those are are the four pieces we need

419

00:17:05,309 --> 00:17:02,959

for any UAP effort in the government to

420

00:17:06,270 --> 00:17:05,319

work and when things aren't happening

421

00:17:08,510 --> 00:17:06,280

right now because you don't have all

422

00:17:11,470 --> 00:17:08,520

those in place so a few other examples

423

00:17:14,669 --> 00:17:11,480

space weather is solar flares affect our

424

00:17:17,350 --> 00:17:14,679

um our ionosphere and it can be a real

425

00:17:19,029 --> 00:17:17,360

problem that gentleman in the middle is

426

00:17:22,069 --> 00:17:19,039

astronomer Richard Carrington the

427

00:17:25,470 --> 00:17:22,079

Carrington event 1859 was this major um

428

00:17:27,429 --> 00:17:25,480

solar storm basically that caused uh

429

00:17:30,430 --> 00:17:27,439

electrical circuits and Telegraph lines

430

00:17:33,110 --> 00:17:30,440

to spark and stations to catch on fire

431

00:17:35,029 --> 00:17:33,120

and if we had that event today a solar

432

00:17:38,230 --> 00:17:35,039

storm like that the entire electrical

433

00:17:40,909 --> 00:17:38,240

grid across the world would fry and

434

00:17:43,789 --> 00:17:40,919

everything we take for granted GPS Wi-Fi

435

00:17:45,990 --> 00:17:43,799

it wouldn't work so the white house put

436

00:17:48,630 --> 00:17:46,000

together a a group called the Swarm the

437

00:17:51,590 --> 00:17:48,640

space weather operations and research

438

00:17:53,070 --> 00:17:51,600

and mitigation committee swarm and uh

439

00:17:56,149 --> 00:17:53,080

and they have an advisory Council called

440

00:17:59,350 --> 00:17:56,159

the swag the space weather advisory

441

00:18:01,390 --> 00:17:59,360

group God to love DOD acronyms and and

442

00:18:03,270 --> 00:18:01,400

we had legislation passed called the I

443

00:18:06,510 --> 00:18:03,280

won't even give you the name of that and

444

00:18:07,870 --> 00:18:06,520

and then we also had um we had a plan

445

00:18:09,510 --> 00:18:07,880

put forth so you had all those four

446

00:18:11,590 --> 00:18:09,520

elements and we're we're tackling space

447

00:18:13,590 --> 00:18:11,600

weather and that's a good thing Noah

448

00:18:15,310 --> 00:18:13,600

leads the the government space weather

449

00:18:16,510 --> 00:18:15,320

prediction capability and then that's

450

00:18:19,230 --> 00:18:16,520

what we're doing we're improving our

451

00:18:20,549 --> 00:18:19,240

predictive capability now one final

452

00:18:23,789 --> 00:18:20,559

example of I think the government

453

00:18:27,390 --> 00:18:23,799

getting it wrong this time is this topic

454

00:18:29,789 --> 00:18:27,400

now uh on on the field of space weather

455

00:18:31,430 --> 00:18:29,799

uh in the ionosphere when big mag when

456

00:18:33,710 --> 00:18:31,440

the Earth plates start pressing together

457

00:18:35,470 --> 00:18:33,720

before an earthquake it induces a

458

00:18:37,950 --> 00:18:35,480

current and you see increases in the

459

00:18:40,190 --> 00:18:37,960

total electron content uh of in the in

460

00:18:42,270 --> 00:18:40,200

the atmosphere they're observable and

461

00:18:44,070 --> 00:18:42,280

and you see data here this is those are

462

00:18:46,750 --> 00:18:44,080

latitude versus altitude on those two

463

00:18:49,990 --> 00:18:46,760

plots of the ionosphere before the

464

00:18:52,350 --> 00:18:50,000

tohoku earthquake and uh and so so this

465

00:18:54,350 --> 00:18:52,360

is a means for earthquake early warning

466

00:18:56,110 --> 00:18:54,360

the Europeans launched this Inspire

467

00:18:58,789 --> 00:18:56,120

project up there on the upper right to

468

00:19:01,590 --> 00:18:58,799

study this meanwhile what is is US

469

00:19:03,510 --> 00:19:01,600

Geological Survey doing nothing they

470

00:19:05,830 --> 00:19:03,520

they insist that if you're not using

471

00:19:07,990 --> 00:19:05,840

geology and seismology earthquakes can't

472

00:19:09,710 --> 00:19:08,000

be predicted and that's their bottom

473

00:19:11,789 --> 00:19:09,720

line I've approached them numerous times

474

00:19:13,549 --> 00:19:11,799

with this this and and they refuse to

475

00:19:15,590 --> 00:19:13,559

look elsewhere it's just such it's like

476

00:19:18,390 --> 00:19:15,600

Obi when he says why won we think out of

477

00:19:20,190 --> 00:19:18,400

the box uh and so uh and then I've gone

478

00:19:21,830 --> 00:19:20,200

to the White House the White House

479

00:19:23,270 --> 00:19:21,840

they're too locked in on climate change

480

00:19:24,549 --> 00:19:23,280

they didn't think this matters I mean

481

00:19:26,630 --> 00:19:24,559

when you look at the earthquakes in

482

00:19:28,430 --> 00:19:26,640

Syria and Morocco and what's going to

483

00:19:29,909 --> 00:19:28,440

happen in the Pacific Northwest the

484

00:19:32,510 --> 00:19:29,919

damage and destruction of these is on

485

00:19:35,149 --> 00:19:32,520

the order of a World War so tell me this

486

00:19:36,909 --> 00:19:35,159

should not be a priority so this is my

487

00:19:38,430 --> 00:19:36,919

example again of just sometimes the

488

00:19:41,630 --> 00:19:38,440

government just not getting it old ways

489

00:19:43,789 --> 00:19:41,640

of thinking misplaced priorities so what

490

00:19:45,830 --> 00:19:43,799

about UAP well let's talk about those

491

00:19:47,510 --> 00:19:45,840

areas that we need action the Hill's

492

00:19:49,990 --> 00:19:47,520

doing it right we got some good work

493

00:19:52,270 --> 00:19:50,000

with the house I just was approached by

494

00:19:54,029 --> 00:19:52,280

representative Luna she is interested in

495

00:19:55,430 --> 00:19:54,039

having another field hearing this time

496

00:19:57,710 --> 00:19:55,440

on Usos

497

00:19:59,830 --> 00:19:57,720

undercap uh so we'll see where we go

498

00:20:01,909 --> 00:19:59,840

with that and and that's good so there's

499

00:20:03,310 --> 00:20:01,919

action being taken and Carl looking

500

00:20:06,590 --> 00:20:03,320

forward to your presentation about the

501
00:20:08,510 --> 00:20:06,600
Schumer Amendment but what about the

502
00:20:10,350 --> 00:20:08,520
executive branch this is where things

503
00:20:12,990 --> 00:20:10,360
aren't going well you have this big

504
00:20:16,909 --> 00:20:13,000
disconnect between what the house the

505
00:20:20,029 --> 00:20:16,919
story David told and uh and of course

506
00:20:22,750 --> 00:20:20,039
the arrow office under Dr kirpatrick why

507
00:20:26,110 --> 00:20:22,760
is that and it's it's not

508
00:20:28,350 --> 00:20:26,120
complicated Sean can't do and say things

509
00:20:30,350 --> 00:20:28,360
without clearance from the SE def and

510
00:20:32,990 --> 00:20:30,360
above him the National Security Council

511
00:20:34,549 --> 00:20:33,000
and the White House and and likely dni

512
00:20:35,750 --> 00:20:34,559
and and everybody who's worked with the

513
00:20:37,789 --> 00:20:35,760

government in this room there's many

514

00:20:39,590 --> 00:20:37,799

they know how this works and that's this

515

00:20:41,990 --> 00:20:39,600

this white house does not want to

516

00:20:45,909 --> 00:20:42,000

disclose that's their policy and Sean is

517

00:20:47,669 --> 00:20:45,919

merely following that suit now um so and

518

00:20:51,029 --> 00:20:47,679

the same is going on with NASA if

519

00:20:52,870 --> 00:20:51,039

anybody saw that that uh the live

520

00:20:55,270 --> 00:20:52,880

meeting yeah what do you want to call

521

00:20:56,909 --> 00:20:55,280

that uh there was nothing there was Zero

522

00:21:00,070 --> 00:20:56,919

data there wasn't one example at least

523

00:21:02,350 --> 00:21:00,080

Sean showed that mle orb but yeah and

524

00:21:04,510 --> 00:21:02,360

this was such a non-event and and it's

525

00:21:05,870 --> 00:21:04,520

for the same reason they get their

526

00:21:08,029 --> 00:21:05,880

orders from the White House that's how

527

00:21:10,470 --> 00:21:08,039

it works and so there the policy

528

00:21:11,870 --> 00:21:10,480

currently today is non-disclosure and

529

00:21:14,269 --> 00:21:11,880

the two bodies we care about are the

530

00:21:15,990 --> 00:21:14,279

office of Science and Technology policy

531

00:21:19,630 --> 00:21:16,000

the National Security Council and

532

00:21:22,630 --> 00:21:19,640

probably others going forward so uh here

533

00:21:25,350 --> 00:21:22,640

are my recommendations for you Gary and

534

00:21:28,269 --> 00:21:25,360

Peter and first off I just want to say

535

00:21:30,549 --> 00:21:28,279

that your idea for soul to be a holistic

536

00:21:33,909 --> 00:21:30,559

approach combining hard science and the

537

00:21:35,640 --> 00:21:33,919

humanities is just brilliant please give

538

00:21:44,350 --> 00:21:35,650

these two leaders a big round of

539

00:21:49,310 --> 00:21:47,230

applause all right so three simple

540

00:21:52,310 --> 00:21:49,320

suggestions for these white papers and

541

00:21:53,909 --> 00:21:52,320

who to engage first off focus on this

542

00:21:56,029 --> 00:21:53,919

Schumer Amendment this is this is what

543

00:21:58,830 --> 00:21:56,039

we have to have done we absolutely this

544

00:22:00,110 --> 00:21:58,840

is the first step and uh and like we

545

00:22:02,669 --> 00:22:00,120

talked about yesterday the language in

546

00:22:04,950 --> 00:22:02,679

it is pretty incredible uh and so we

547

00:22:06,830 --> 00:22:04,960

want this done and uh now Hal you had a

548

00:22:09,070 --> 00:22:06,840

great observation about the private

549

00:22:11,590 --> 00:22:09,080

sector and those how to that's going to

550

00:22:12,950 --> 00:22:11,600

be thorny but uh but let's just get this

551
00:22:14,830 --> 00:22:12,960
out there and let's get a policy of

552
00:22:17,269 --> 00:22:14,840
disclosure and a good panel to help

553
00:22:18,549 --> 00:22:17,279
review on that um I realize some

554
00:22:20,750 --> 00:22:18,559
technology might have to remain

555
00:22:22,630 --> 00:22:20,760
classified but the the fact that we're

556
00:22:23,909 --> 00:22:22,640
being visited by non-human intelligence

557
00:22:25,830 --> 00:22:23,919
the public should know this and we

558
00:22:28,950 --> 00:22:25,840
should develop policy regarding our

559
00:22:30,830 --> 00:22:28,960
response to that the second thing is get

560
00:22:33,350 --> 00:22:30,840
the White House involved here's my final

561
00:22:35,350 --> 00:22:33,360
example that woman there is Louisa Koke

562
00:22:38,149 --> 00:22:35,360
she's the director of Noah's Office of

563
00:22:39,750 --> 00:22:38,159

Education and I spent many meetings in

564

00:22:42,269 --> 00:22:39,760

the white house with her to get that

565

00:22:45,070 --> 00:22:42,279

document passed it's our it's it's the

566

00:22:46,549 --> 00:22:45,080

national PL strategy for stem education

567

00:22:49,350 --> 00:22:46,559

I worked on it with the NASA

568

00:22:51,190 --> 00:22:49,360

administrator and and the Navy all the

569

00:22:53,510 --> 00:22:51,200

agencies that cared about stem which is

570

00:22:55,549 --> 00:22:53,520

almost all of them and uh and it was and

571

00:22:57,190 --> 00:22:55,559

it was a solid plan and then then were

572

00:22:58,870 --> 00:22:57,200

all the other parts so we we already had

573

00:23:02,669 --> 00:22:58,880

legislation from from Congress and then

574

00:23:06,590 --> 00:23:02,679

we this plan developed a committee this

575

00:23:09,269 --> 00:23:06,600

co- stem the Council on um uh uh stem

576

00:23:10,870 --> 00:23:09,279

education and and then we executed that

577

00:23:12,990 --> 00:23:10,880

plan with the federal advisory committee

578

00:23:14,830 --> 00:23:13,000

so you had all four parts working well

579

00:23:17,390 --> 00:23:14,840

these are the things I recommend Soul

580

00:23:20,870 --> 00:23:17,400

put forward in our papers and

581

00:23:22,830 --> 00:23:20,880

engagement and then finally uh the Next

582

00:23:26,310 --> 00:23:22,840

Generation and I'm I'm stealing this

583

00:23:28,909 --> 00:23:26,320

quote from IIA your your uh your EI

584

00:23:31,950 --> 00:23:28,919

piece in in Diana's book the encounters

585

00:23:34,230 --> 00:23:31,960

book where she where Diana describes how

586

00:23:37,190 --> 00:23:34,240

I had took uh Aviation safety and

587

00:23:39,149 --> 00:23:37,200

changed it in a generation uh to remove

588

00:23:41,830 --> 00:23:39,159

the fear and stigma from reporting

589

00:23:43,510 --> 00:23:41,840

safety uh violations and and that's and

590

00:23:45,269 --> 00:23:43,520

what that did with a new generation you

591

00:23:48,110 --> 00:23:45,279

had this new culture and the same

592

00:23:49,669 --> 00:23:48,120

applies for UAP and what's wonderful is

593

00:23:52,070 --> 00:23:49,679

many of those people are in the room

594

00:23:53,710 --> 00:23:52,080

right now so this is happening it's not

595

00:23:56,149 --> 00:23:53,720

and we just need to keep that up and and

596

00:23:59,430 --> 00:23:56,159

this is like developing grad school and

597

00:24:02,830 --> 00:23:59,440

undergraduate curricula on UAP studies

598

00:24:05,310 --> 00:24:02,840

as well as research projects and PhD uh

599

00:24:07,430 --> 00:24:05,320

PhD work so this this is happening and

600

00:24:09,149 --> 00:24:07,440

let's let's do more of it and I use this

601
00:24:10,950 --> 00:24:09,159
picture from ai's latest meeting this is

602
00:24:13,269 --> 00:24:10,960
the whole Galler Galileo group from

603
00:24:14,909 --> 00:24:13,279
yesterday he had the the picture from

604
00:24:18,470 --> 00:24:14,919
last year's meeting and it was a lot

605
00:24:20,789 --> 00:24:18,480
smaller so this is a good thing um

606
00:24:23,110 --> 00:24:20,799
lastly uh I'm gonna kind of tee up

607
00:24:25,389 --> 00:24:23,120
Jonathan berties where are you

608
00:24:28,029 --> 00:24:25,399
Jonathan yes right there he's going to

609
00:24:30,269 --> 00:24:28,039
speak later today uh about involving

610
00:24:32,870 --> 00:24:30,279
entrepreneurs in in this and moving

611
00:24:35,950 --> 00:24:32,880
forward to research and study the

612
00:24:37,230 --> 00:24:35,960
phenomena and so um uh I think this is

613
00:24:40,430 --> 00:24:37,240

will be really important because we have

614

00:24:43,549 --> 00:24:40,440

so many opportunities here to advance

615

00:24:46,549 --> 00:24:43,559

with this understanding possibly these

616

00:24:48,789 --> 00:24:46,559

issues of our time energy transportation

617

00:24:51,669 --> 00:24:48,799

agriculture food security you name it

618

00:24:54,190 --> 00:24:51,679

biotechnology bi U biom medicine all of

619

00:24:56,669 --> 00:24:54,200

these we might be finding answers to

620

00:24:58,470 --> 00:24:56,679

some we already are through the research

621

00:24:59,990 --> 00:24:58,480

we're doing in this room

622

00:25:01,830 --> 00:25:00,000

so thank you all for your time and

623

00:25:05,070 --> 00:25:01,840

attention uh it's really great to be a

624

00:25:07,240 --> 00:25:05,080

part of this fantastic Endeavor and uh I