



NASA to Discuss New Unidentified Aerial Phenomena Study Today

Media Teleconference

1
00:00:03,669 --> 00:00:01,670
associate administrator for research in

2
00:00:05,990 --> 00:00:03,679
the science mission directorate and we

3
00:00:08,390 --> 00:00:06,000
have david spurgle who will be the lead

4
00:00:10,549 --> 00:00:08,400
for this study and also the president of

5
00:00:11,910 --> 00:00:10,559
the simons foundation

6
00:00:14,230 --> 00:00:11,920
once we get to the question and answer

7
00:00:16,710 --> 00:00:14,240
portion you may press star one to get

8
00:00:18,070 --> 00:00:16,720
into the queue to ask a question and our

9
00:00:20,550 --> 00:00:18,080
operator holly will give you more

10
00:00:24,070 --> 00:00:20,560
details when we get to that point uh

11
00:00:26,550 --> 00:00:24,080
however for now we will start out and uh

12
00:00:28,630 --> 00:00:26,560
welcome thomas sirbukin talking to you

13
00:00:30,950 --> 00:00:28,640

well thanks so much karen

14

00:00:32,630 --> 00:00:30,960

i want to first uh say that of course

15

00:00:34,790 --> 00:00:32,640

part of our

16

00:00:36,229 --> 00:00:34,800

task at nasa is

17

00:00:38,389 --> 00:00:36,239

given to us by

18

00:00:40,709 --> 00:00:38,399

the congress is not only to do

19

00:00:42,709 --> 00:00:40,719

fundamental research in the skies and so

20

00:00:45,110 --> 00:00:42,719

forth but as part of that also to find

21

00:00:47,029 --> 00:00:45,120

life elsewhere that's why we've built

22

00:00:49,670 --> 00:00:47,039

astrobiology programs in many

23

00:00:52,310 --> 00:00:49,680

disciplines across the summary field

24

00:00:55,029 --> 00:00:52,320

that looks at both

25

00:00:57,350 --> 00:00:55,039

extinct life on mars for example but

26

00:00:58,869 --> 00:00:57,360

also looks at the patterns of life

27

00:01:00,150 --> 00:00:58,879

elsewhere

28

00:01:04,310 --> 00:01:00,160

perhaps

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00:01:06,870 --> 00:01:04,320

forward but also as we look at

30

00:01:09,190 --> 00:01:06,880

exoplanets planets outside of our solar

31

00:01:12,230 --> 00:01:09,200

system looking for the question whether

32

00:01:13,910 --> 00:01:12,240

certain environments are in fact uh

33

00:01:15,749 --> 00:01:13,920

part of uh

34

00:01:16,870 --> 00:01:15,759

ken of the if you want the ladder of

35

00:01:19,270 --> 00:01:16,880

life that

36

00:01:20,870 --> 00:01:19,280

got us to uh where we are

37

00:01:22,630 --> 00:01:20,880

so the tools that we're using whether

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00:01:24,630 --> 00:01:22,640

it's in this field they're also kind of

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00:01:26,710 --> 00:01:24,640

in fields that then go towards kind of

40

00:01:28,870 --> 00:01:26,720

intelligent life such as techno

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00:01:31,190 --> 00:01:28,880

signatures which we have programs for

42

00:01:33,350 --> 00:01:31,200

already are the same tools that we use

43

00:01:35,270 --> 00:01:33,360

everywhere the tools that we're uh

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00:01:36,870 --> 00:01:35,280

frankly using here and that is to be

45

00:01:39,190 --> 00:01:36,880

commissioning a study

46

00:01:41,670 --> 00:01:39,200

uh to start early in the fall to examine

47

00:01:43,590 --> 00:01:41,680

our unidentified aerial phenomena the

48

00:01:45,910 --> 00:01:43,600

study will focus

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00:01:48,630 --> 00:01:45,920

on identifying available data how to

50

00:01:50,149 --> 00:01:48,640

best collect future data and how nasa

51
00:01:53,030 --> 00:01:50,159
can use these data to move the

52
00:01:54,789 --> 00:01:53,040
scientific understanding of uaps forward

53
00:01:57,190 --> 00:01:54,799
a short way i would talk about that is

54
00:01:58,789 --> 00:01:57,200
take a field that is relatively data

55
00:02:00,950 --> 00:01:58,799
poor

56
00:02:03,670 --> 00:02:00,960
and to have make it into a field that is

57
00:02:06,630 --> 00:02:03,680
much more data rich and therefore worthy

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00:02:08,949 --> 00:02:06,640
of scientific investigation and analysis

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00:02:10,949 --> 00:02:08,959
as its mission of course uh as i just

60
00:02:12,150 --> 00:02:10,959
said is to explore the unknown in air

61
00:02:13,910 --> 00:02:12,160
and space

62
00:02:16,710 --> 00:02:13,920
and we have access frankly as part of

63
00:02:19,430 --> 00:02:16,720

that to broad a range of observations uh

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00:02:21,350 --> 00:02:19,440

of earth and space and and frankly

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00:02:23,830 --> 00:02:21,360

that's the lifeblood of our scientific

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00:02:25,990 --> 00:02:23,840

inquiry we have the tools

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00:02:28,070 --> 00:02:26,000

and teams who can help us improve our

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00:02:30,630 --> 00:02:28,080

understanding of the unknown and we are

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00:02:33,190 --> 00:02:30,640

prepared to use these powerful tools

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00:02:35,830 --> 00:02:33,200

of scientific discovery in this case

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00:02:37,030 --> 00:02:35,840

as much as anything else using exactly

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00:02:40,150 --> 00:02:37,040

the same

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00:02:42,150 --> 00:02:40,160

kind of approach that we always use

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00:02:45,350 --> 00:02:42,160

unidentified phenomena in the atmosphere

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00:02:47,910 --> 00:02:45,360

of interest for both for many reasons

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00:02:49,270 --> 00:02:47,920

frankly i think there's new science to

77

00:02:50,869 --> 00:02:49,280

be discovered

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00:02:52,630 --> 00:02:50,879

there's many many times where something

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00:02:55,110 --> 00:02:52,640

that looked almost magical turned out to

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00:02:57,030 --> 00:02:55,120

be a new scientific effect

81

00:02:59,110 --> 00:02:57,040

but there's also

82

00:03:01,350 --> 00:02:59,120

national security and air safety issues

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00:03:03,830 --> 00:03:01,360

that have been discussed elsewhere that

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00:03:06,390 --> 00:03:03,840

of course relate to these observations

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00:03:08,630 --> 00:03:06,400

and establishing uh uh you know with

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00:03:11,270 --> 00:03:08,640

events that are whether they're natural

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00:03:13,110 --> 00:03:11,280

or whether they are kind of uh need to

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00:03:15,830 --> 00:03:13,120

be explained otherwise

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00:03:18,149 --> 00:03:15,840

is very much aligned with nasa's goals

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00:03:20,229 --> 00:03:18,159

that uh ensure of course you know that

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00:03:21,910 --> 00:03:20,239

we discover the unknown but also ensures

92

00:03:23,670 --> 00:03:21,920

the safety of aircraft that of course

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00:03:26,070 --> 00:03:23,680

are in that airspace

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00:03:27,750 --> 00:03:26,080

that these phenomena occur

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00:03:30,229 --> 00:03:27,760

uh this an abandoned study will be led

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00:03:31,589 --> 00:03:30,239

by astrophysicist david spurgle

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00:03:34,789 --> 00:03:31,599

who's the president of the simons

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00:03:36,789 --> 00:03:34,799

foundation of uh in new york city and uh

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00:03:38,550 --> 00:03:36,799

as previous previously been the chair of

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00:03:41,110 --> 00:03:38,560

astrophysics and department of branston

101
00:03:42,949 --> 00:03:41,120
and university of princeton new jersey

102
00:03:45,190 --> 00:03:42,959
dan evans the assistant deputy associate

103
00:03:47,030 --> 00:03:45,200
uh administrator for research it's kind

104
00:03:48,550 --> 00:03:47,040
of is that the really kind of the wheels

105
00:03:50,229 --> 00:03:48,560
on the bus kind of really making sure

106
00:03:52,949 --> 00:03:50,239
that we're interfacing

107
00:03:54,789 --> 00:03:52,959
uh with some people may ask why david by

108
00:03:57,110 --> 00:03:54,799
dance first of all dan

109
00:03:59,110 --> 00:03:57,120
with his tremendous experience uh both

110
00:04:00,710 --> 00:03:59,120
as a researcher but also as enabler for

111
00:04:02,229 --> 00:04:00,720
research his work that he did in the

112
00:04:04,869 --> 00:04:02,239
white house previously i think has

113
00:04:07,509 --> 00:04:04,879

tremendous uh insight into kind of the

114

00:04:09,509 --> 00:04:07,519

cross interagency aspect that uh relates

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00:04:11,750 --> 00:04:09,519

to some of these discussions

116

00:04:13,589 --> 00:04:11,760

and david sperkle i think to all of us

117

00:04:15,509 --> 00:04:13,599

in astrophysics really understand that

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00:04:18,150 --> 00:04:15,519

he's one of the most trusted voices and

119

00:04:19,909 --> 00:04:18,160

so many questions also a person who

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00:04:21,990 --> 00:04:19,919

understands really the power of science

121

00:04:24,469 --> 00:04:22,000

and is willing and able to use that

122

00:04:26,310 --> 00:04:24,479

power of science kind of in areas

123

00:04:28,150 --> 00:04:26,320

where i would say kind of fall under

124

00:04:29,990 --> 00:04:28,160

that what we would refer to as high risk

125

00:04:31,270 --> 00:04:30,000

high impact kind of research kind of

126
00:04:33,189 --> 00:04:31,280
areas that

127
00:04:34,710 --> 00:04:33,199
that many of the scientists may be a

128
00:04:36,230 --> 00:04:34,720
little bit more timid

129
00:04:38,469 --> 00:04:36,240
to walk into so dave i'm going to kick

130
00:04:40,070 --> 00:04:38,479
it over to you

131
00:04:41,430 --> 00:04:40,080
uh thanks thomas

132
00:04:44,550 --> 00:04:41,440
to

133
00:04:46,230 --> 00:04:44,560
start this is a really exciting project

134
00:04:47,909 --> 00:04:46,240
one of the most exciting things in

135
00:04:49,590 --> 00:04:47,919
science are things that we don't

136
00:04:50,870 --> 00:04:49,600
understand

137
00:04:52,550 --> 00:04:50,880
and

138
00:04:56,629 --> 00:04:52,560

my starting point i think all of our

139

00:05:00,710 --> 00:04:58,790

this is they're a phenomenon that we

140

00:05:02,710 --> 00:05:00,720

don't understand and have and then how

141

00:05:04,230 --> 00:05:02,720

do we start to make progress

142

00:05:06,870 --> 00:05:04,240

we have a very limited set of

143

00:05:08,390 --> 00:05:06,880

observations right now with these uaps

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00:05:09,670 --> 00:05:08,400

this makes it difficult to draw

145

00:05:12,790 --> 00:05:09,680

conclusions

146

00:05:15,510 --> 00:05:12,800

so we start by trying to

147

00:05:18,870 --> 00:05:15,520

figure out what data is out there

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00:05:21,350 --> 00:05:18,880

and we're going to be working with

149

00:05:24,310 --> 00:05:21,360

government nonprofits companies

150

00:05:26,550 --> 00:05:24,320

civilians and try to identify what data

151
00:05:28,390 --> 00:05:26,560
is already there

152
00:05:30,629 --> 00:05:28,400
then start to think about what data

153
00:05:34,230 --> 00:05:30,639
should we collect in the future

154
00:05:38,310 --> 00:05:34,240
and how are we going to analyze it

155
00:05:40,790 --> 00:05:38,320
we actually have a wealth of data about

156
00:05:43,110 --> 00:05:40,800
our atmosphere right we observe it

157
00:05:44,230 --> 00:05:43,120
both from above and below

158
00:05:48,070 --> 00:05:44,240
and

159
00:05:51,189 --> 00:05:48,080
whether it's air traffic management data

160
00:05:53,430 --> 00:05:51,199
astronomers looking up

161
00:05:55,510 --> 00:05:53,440
sunlight's looking down and what we want

162
00:05:57,029 --> 00:05:55,520
to start with is just synthesizing the

163
00:05:59,590 --> 00:05:57,039

data we have

164

00:06:01,909 --> 00:05:59,600

and see what information we have and see

165

00:06:05,029 --> 00:06:01,919

what information we need

166

00:06:07,029 --> 00:06:05,039

and our plan is to conduct a you know an

167

00:06:08,150 --> 00:06:07,039

open inquiry

168

00:06:16,790 --> 00:06:08,160

that

169

00:06:19,350 --> 00:06:16,800

this is done we at least have a roadmap

170

00:06:20,950 --> 00:06:19,360

of how to move forward in understanding

171

00:06:22,790 --> 00:06:20,960

in this area

172

00:06:25,189 --> 00:06:22,800

um so let me now turn this over to dan

173

00:06:28,390 --> 00:06:25,199

adams who will talk a bit more about the

174

00:06:32,469 --> 00:06:30,309

thanks david hello everyone i'm going to

175

00:06:34,629 --> 00:06:32,479

give you some quick details on this

176

00:06:36,390 --> 00:06:34,639

study from a nasa perspective

177

00:06:39,110 --> 00:06:36,400

but i wanted to start by saying that

178

00:06:40,550 --> 00:06:39,120

over the decades nasa has answered the

179

00:06:42,550 --> 00:06:40,560

call to tackle some of the most

180

00:06:44,710 --> 00:06:42,560

perplexing mysteries we know of and this

181

00:06:46,950 --> 00:06:44,720

is no different i do want to underscore

182

00:06:49,749 --> 00:06:46,960

that nasa is uniquely positioned to

183

00:06:52,309 --> 00:06:49,759

address uap because who other than us

184

00:06:54,230 --> 00:06:52,319

can use the power of data and of science

185

00:06:56,950 --> 00:06:54,240

to look at what's happening in our skies

186

00:06:58,150 --> 00:06:56,960

and quite frankly this is why we do

187

00:07:00,469 --> 00:06:58,160

what we do

188

00:07:01,670 --> 00:07:00,479

now for this study specifically we plan

189

00:07:04,150 --> 00:07:01,680

on bringing together some of the

190

00:07:06,550 --> 00:07:04,160

country's leading scientists aeronautics

191

00:07:08,230 --> 00:07:06,560

experts and data practitioners

192

00:07:09,990 --> 00:07:08,240

we expect the study to kick off in the

193

00:07:11,589 --> 00:07:10,000

early fall it should take about nine

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00:07:13,029 --> 00:07:11,599

months to complete

195

00:07:15,350 --> 00:07:13,039

and i want to make this point

196

00:07:17,589 --> 00:07:15,360

emphatically that very much consistent

197

00:07:20,469 --> 00:07:17,599

with our principles of openness

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00:07:22,070 --> 00:07:20,479

transparency and scientific integrity

199

00:07:24,070 --> 00:07:22,080

the full report will be

200

00:07:25,990 --> 00:07:24,080

made available to the public and we

201
00:07:28,790 --> 00:07:26,000
expect to hold a public meeting to

202
00:07:32,870 --> 00:07:28,800
discuss the study's findings without

203
00:07:35,589 --> 00:07:32,880
that i will pass it back to karen fox

204
00:07:38,790 --> 00:07:35,599
fantastic thank you we are ready to take

205
00:07:42,309 --> 00:07:38,800
questions and i will pass it to uh holly

206
00:07:43,990 --> 00:07:42,319
our operator just to i walk us through

207
00:07:44,869 --> 00:07:44,000
the process there

208
00:07:47,909 --> 00:07:44,879
and

209
00:07:51,589 --> 00:07:49,749
thank you if you would like to ask a

210
00:07:53,510 --> 00:07:51,599
question please unmute your phone press

211
00:07:55,270 --> 00:07:53,520
star one and record your first and last

212
00:07:56,469 --> 00:07:55,280
name clearly when prompted so i may

213
00:07:58,710 --> 00:07:56,479

introduce you

214

00:08:00,869 --> 00:07:58,720

again that is star one our first

215

00:08:02,790 --> 00:08:00,879

question comes from chris davenport with

216

00:08:04,550 --> 00:08:02,800

the washington post

217

00:08:07,189 --> 00:08:04,560

you may go ahead

218

00:08:09,830 --> 00:08:07,199

okay thanks very much um i just wonder

219

00:08:13,110 --> 00:08:09,840

uh for david dr z i mean do you go into

220

00:08:15,749 --> 00:08:13,120

this study with any sort of hypothesis

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00:08:17,990 --> 00:08:15,759

that could explain the uaps and then

222

00:08:19,589 --> 00:08:18,000

also dr z during your speech

223

00:08:22,150 --> 00:08:19,599

this morning you said you didn't want to

224

00:08:24,790 --> 00:08:22,160

shy away from these types of studies

225

00:08:27,189 --> 00:08:24,800

even if they're controversial or

226

00:08:29,350 --> 00:08:27,199

you could uh as you i think you said you

227

00:08:30,629 --> 00:08:29,360

know cause some sort of reputational

228

00:08:32,230 --> 00:08:30,639

harm i wonder if you can talk a little

229

00:08:35,430 --> 00:08:32,240

bit more about that and if you expect

230

00:08:42,870 --> 00:08:35,440

any kind of pushback thanks

231

00:08:48,070 --> 00:08:44,070

david are you there can you take the

232

00:08:51,350 --> 00:08:49,750

yeah can you hear me now

233

00:08:52,710 --> 00:08:51,360

yeah yes

234

00:08:55,350 --> 00:08:52,720

excellent

235

00:08:57,590 --> 00:08:55,360

uh so yeah so

236

00:09:00,310 --> 00:08:57,600

i would say the only preconceived notion

237

00:09:01,990 --> 00:09:00,320

i have coming into this is that we

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00:09:05,110 --> 00:09:02,000

should be open to the idea that we're

239

00:09:07,030 --> 00:09:05,120

looking at several different phenomena

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00:09:09,030 --> 00:09:07,040

this has been

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00:09:10,949 --> 00:09:09,040

my experience when we have some

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00:09:13,110 --> 00:09:10,959

observational phenomena we don't know

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00:09:14,710 --> 00:09:13,120

what it is that we classify

244

00:09:15,910 --> 00:09:14,720

several different things into one

245

00:09:18,150 --> 00:09:15,920

grouping

246

00:09:20,310 --> 00:09:18,160

so we need not look for you know we may

247

00:09:22,710 --> 00:09:20,320

find that one explanation accounts for

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00:09:25,269 --> 00:09:22,720

some set of events and a different

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00:09:26,710 --> 00:09:25,279

explanation accounts for others

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00:09:28,389 --> 00:09:26,720

so i you know

251

00:09:31,509 --> 00:09:28,399

there's a pretty wide range of what

252

00:09:33,829 --> 00:09:31,519

might be accounting for these events and

253

00:09:38,790 --> 00:09:35,590

i have not looked

254

00:09:40,389 --> 00:09:38,800

at all the data that's available and

255

00:09:42,550 --> 00:09:40,399

believe in

256

00:09:44,150 --> 00:09:42,560

trying to not come in with preconceived

257

00:09:47,030 --> 00:09:44,160

notions until we have a better look at

258

00:09:50,710 --> 00:09:49,190

so if you ask me that question uh

259

00:09:52,550 --> 00:09:50,720

frankly david i would have i would have

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00:09:54,949 --> 00:09:52,560

said almost the same thing you know i

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00:09:58,790 --> 00:09:54,959

really believe uh generally speaking

262

00:10:01,269 --> 00:09:58,800

uh my sense is that uh don't ever

263

00:10:03,190 --> 00:10:01,279

underestimate what nature can do for you

264

00:10:04,949 --> 00:10:03,200

uh i just really believe the natural

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00:10:06,550 --> 00:10:04,959

world kind of sometimes we have this

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00:10:07,590 --> 00:10:06,560

assertion that we understand the natural

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00:10:10,870 --> 00:10:07,600

world and everything that's not

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00:10:13,190 --> 00:10:10,880

explained in the with the loss of nature

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00:10:15,509 --> 00:10:13,200

that we have right now is somehow not

270

00:10:17,750 --> 00:10:15,519

natural and i just uh really believe

271

00:10:19,430 --> 00:10:17,760

that there's a lot to learn still

272

00:10:21,670 --> 00:10:19,440

we learned that frankly as we turn

273

00:10:23,910 --> 00:10:21,680

around we put up telescopes look into

274

00:10:25,269 --> 00:10:23,920

the deep sky there's a lot to learn

275

00:10:27,910 --> 00:10:25,279

and i think the same is true when we

276

00:10:29,829 --> 00:10:27,920

look at our own planet and even our own

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00:10:31,509 --> 00:10:29,839

airspace

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00:10:35,269 --> 00:10:31,519

the reason i talked about kind of

279

00:10:36,870 --> 00:10:35,279

reputational risk uh relative to that

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00:10:38,310 --> 00:10:36,880

i mean it's clear

281

00:10:40,310 --> 00:10:38,320

that you know

282

00:10:42,389 --> 00:10:40,320

in a traditional type of science

283

00:10:45,110 --> 00:10:42,399

environment kind of talking about some

284

00:10:46,790 --> 00:10:45,120

of these issues may be considered kind

285

00:10:52,470 --> 00:10:46,800

of

286

00:10:54,949 --> 00:10:52,480

things that are not actual science i

287

00:10:56,630 --> 00:10:54,959

just really vehemently oppose that i

288

00:10:58,710 --> 00:10:56,640

really believe that

289

00:11:00,949 --> 00:10:58,720

the quality of science is not only

290

00:11:03,030 --> 00:11:00,959

measured by the outputs that come behind

291

00:11:04,870 --> 00:11:03,040

it but also the questions we're willing

292

00:11:07,350 --> 00:11:04,880

to tackle with science

293

00:11:08,710 --> 00:11:07,360

this of course is the reason why

294

00:11:10,870 --> 00:11:08,720

millions of

295

00:11:12,550 --> 00:11:10,880

lives were saved

296

00:11:14,470 --> 00:11:12,560

during this pandemic because of the

297

00:11:17,750 --> 00:11:14,480

amazing scientists that looked at new

298

00:11:18,710 --> 00:11:17,760

ways of creating kind of vaccines before

299

00:11:21,110 --> 00:11:18,720

they were

300

00:11:23,269 --> 00:11:21,120

truly uh useful and then them being

301
00:11:25,030 --> 00:11:23,279
deployed there's many many examples that

302
00:11:27,430 --> 00:11:25,040
were where people

303
00:11:30,389 --> 00:11:27,440
kind of lean forward into a field that

304
00:11:33,350 --> 00:11:30,399
is uh not yet accepted it's

305
00:11:36,389 --> 00:11:33,360
controversial or attacks on reputational

306
00:11:40,310 --> 00:11:36,399
risk so i do believe uh uh you know in

307
00:11:42,069 --> 00:11:40,320
in some domains uh uh surely uh you know

308
00:11:45,030 --> 00:11:42,079
this will not just be met with other

309
00:11:47,269 --> 00:11:45,040
enthusiasm uh but i do believe that uh

310
00:11:49,350 --> 00:11:47,279
it's absolutely necessary uh for us

311
00:11:52,150 --> 00:11:49,360
whether it's in this but also in other

312
00:11:54,230 --> 00:11:52,160
places to really uh in fact lean into uh

313
00:11:56,870 --> 00:11:54,240

those kind of high-risk high-impact kind

314

00:11:58,389 --> 00:11:56,880

of uh areas

315

00:11:59,910 --> 00:11:58,399

yeah and that's just to add a little bit

316

00:12:02,230 --> 00:11:59,920

i think we have to approach all these

317

00:12:03,030 --> 00:12:02,240

questions with a sense of humility

318

00:12:18,710 --> 00:12:03,040

i

319

00:12:20,949 --> 00:12:18,720

but

320

00:12:23,110 --> 00:12:20,959

at the end of the day we may conclude

321

00:12:24,550 --> 00:12:23,120

that we still don't understand many

322

00:12:26,949 --> 00:12:24,560

aspects of them

323

00:12:33,750 --> 00:12:26,959

and perhaps have a road map on how to

324

00:12:37,509 --> 00:12:34,790

all right i think we're ready for our

325

00:12:39,509 --> 00:12:37,519

next question thank you so much

326

00:12:42,790 --> 00:12:39,519

our next question is from lauren gresh

327

00:12:45,030 --> 00:12:42,800

with the verge you may go ahead

328

00:12:47,350 --> 00:12:45,040

hi thank you uh my question is for

329

00:12:49,030 --> 00:12:47,360

thomas derbugen kind of

330

00:12:52,310 --> 00:12:49,040

piggybacking off of what christian was

331

00:12:55,110 --> 00:12:52,320

asking so in the announcement today nasa

332

00:12:57,590 --> 00:12:55,120

stressed that uips are unlikely to be

333

00:12:59,509 --> 00:12:57,600

extraterrestrial in origin but then

334

00:13:01,829 --> 00:12:59,519

proceeded to talk about nasa's efforts

335

00:13:03,430 --> 00:13:01,839

to search for alien life and then today

336

00:13:05,750 --> 00:13:03,440

opening this pressure you talked about

337

00:13:07,430 --> 00:13:05,760

intelligent life and techno signatures

338

00:13:09,350 --> 00:13:07,440

so i'm wondering if nasa is trying to

339

00:13:11,910 --> 00:13:09,360

make a connection that uips or some kind

340

00:13:14,710 --> 00:13:11,920

of alien technology and if not why

341

00:13:17,430 --> 00:13:14,720

include that language thank you

342

00:13:19,110 --> 00:13:17,440

yeah i think what the intent was uh in

343

00:13:24,389 --> 00:13:19,120

that

344

00:13:26,629 --> 00:13:24,399

at this moment in time kind of there's

345

00:13:28,310 --> 00:13:26,639

uh kind of in with the evidence that we

346

00:13:30,470 --> 00:13:28,320

have you know if you looked at the

347

00:13:32,550 --> 00:13:30,480

broader scientific community and also in

348

00:13:35,030 --> 00:13:32,560

general i think it would be hard to find

349

00:13:37,350 --> 00:13:35,040

irrefutable evidence for a given event

350

00:13:40,069 --> 00:13:37,360

being one or the other and certainly uh

351

00:13:43,030 --> 00:13:40,079

there's no kind of marquee event that

352

00:13:45,030 --> 00:13:43,040

anybody kind of a whole group of uh kind

353

00:13:46,310 --> 00:13:45,040

of independent scientists and so forth

354

00:13:48,550 --> 00:13:46,320

which of course as you know is the

355

00:13:49,910 --> 00:13:48,560

standard of scientific consensus would

356

00:13:52,629 --> 00:13:49,920

agree that it's

357

00:13:54,550 --> 00:13:52,639

uh you know it's it's of that nature

358

00:13:56,629 --> 00:13:54,560

i do believe that that actually says

359

00:13:57,990 --> 00:13:56,639

very little about the event themselves

360

00:14:00,790 --> 00:13:58,000

it just says

361

00:14:03,350 --> 00:14:00,800

a lot about the availability of data

362

00:14:06,069 --> 00:14:03,360

which is by the way exactly where

363

00:14:09,030 --> 00:14:06,079

we're focused on this uh the reason i

364

00:14:11,670 --> 00:14:09,040

pointed out uh the uh astrobiology and

365

00:14:13,990 --> 00:14:11,680

techno signatures is to just uh throw

366

00:14:16,069 --> 00:14:14,000

out and many people miss that sometimes

367

00:14:18,230 --> 00:14:16,079

you know kind of you know and people

368

00:14:20,150 --> 00:14:18,240

tweet at me and it's obvious that they

369

00:14:23,110 --> 00:14:20,160

don't know that that we

370

00:14:25,910 --> 00:14:23,120

have demonstrated over the past years

371

00:14:28,550 --> 00:14:25,920

and uh frankly even decades our uh

372

00:14:31,269 --> 00:14:28,560

interest in the overall question of

373

00:14:33,110 --> 00:14:31,279

finding life elsewhere and also finding

374

00:14:34,870 --> 00:14:33,120

intelligent life elsewhere using the

375

00:14:37,110 --> 00:14:34,880

tools of science so that's why i brought

376

00:14:38,389 --> 00:14:37,120

it up i i if somebody asked me do i

377

00:14:40,790 --> 00:14:38,399

really think that

378

00:14:43,430 --> 00:14:40,800

that uh is is that you know there is uh

379

00:14:45,750 --> 00:14:43,440

irrefutable evidence for an intelligent

380

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

life here and one of these phenomena and

381

00:14:49,829 --> 00:14:48,079

otherwise that it's a i would give an

382

00:14:51,110 --> 00:14:49,839

answer that's absolutely acceptable as a

383

00:14:53,269 --> 00:14:51,120

scientist

384

00:14:55,509 --> 00:14:53,279

which is i don't know

385

00:14:57,509 --> 00:14:55,519

because there is not you know from where

386

00:14:59,670 --> 00:14:57,519

i'm looking at kind of

387

00:15:00,550 --> 00:14:59,680

uh that's not what uh you know kind of

388

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

the

389

00:15:04,310 --> 00:15:02,720

overall kind of uh support for that to

390

00:15:06,470 --> 00:15:04,320

kind of get to that part it's just a

391

00:15:07,829 --> 00:15:06,480

very high bar in all cases i think

392

00:15:09,829 --> 00:15:07,839

additional data

393

00:15:12,710 --> 00:15:09,839

will really bring us uh kind of to

394

00:15:14,629 --> 00:15:12,720

getting uh get learning a lot more uh

395

00:15:16,550 --> 00:15:14,639

how much closer we get to answering that

396

00:15:17,829 --> 00:15:16,560

question as david just said it's

397

00:15:19,350 --> 00:15:17,839

something we don't know yet you need to

398

00:15:22,550 --> 00:15:19,360

do the research before you can answer

399

00:15:26,470 --> 00:15:24,069

thank you we'll move on to the next

400

00:15:31,269 --> 00:15:26,480

question

401
00:15:33,350 --> 00:15:31,279
with space news you may go ahead

402
00:15:35,189 --> 00:15:33,360
good afternoon a couple of procedural

403
00:15:37,269 --> 00:15:35,199
questions about the study

404
00:15:38,629 --> 00:15:37,279
what's the process going to be for

405
00:15:40,949 --> 00:15:38,639
picking the team that's going to be

406
00:15:43,430 --> 00:15:40,959
working on the study and then what's the

407
00:15:45,269 --> 00:15:43,440
the budget nasa's allocated for this and

408
00:15:49,910 --> 00:15:45,279
where is the funding coming from to

409
00:15:54,949 --> 00:15:51,829
go ahead dan this is dan evans i think i

410
00:15:56,150 --> 00:15:54,959
can answer that one so

411
00:15:58,949 --> 00:15:56,160
when we

412
00:16:01,269 --> 00:15:58,959
orchestrate studies like this it's no

413
00:16:03,110 --> 00:16:01,279

different to to any of the hundreds of

414

00:16:05,430 --> 00:16:03,120

review panels that we put together

415

00:16:07,110 --> 00:16:05,440

annually to to look at uh grant

416

00:16:09,829 --> 00:16:07,120

applications for instance

417

00:16:12,629 --> 00:16:09,839

uh nasa has the discretion of uh

418

00:16:14,310 --> 00:16:12,639

appointing these members but we do so um

419

00:16:16,790 --> 00:16:14,320

following wide consultation with the

420

00:16:19,350 --> 00:16:16,800

members of the community as to the the

421

00:16:21,749 --> 00:16:19,360

types of individuals who would serve in

422

00:16:23,189 --> 00:16:21,759

an incredible capacity on such a high

423

00:16:25,030 --> 00:16:23,199

profile team

424

00:16:27,110 --> 00:16:25,040

so it's our discretion

425

00:16:29,350 --> 00:16:27,120

but we will consult extremely widely

426

00:16:32,310 --> 00:16:29,360

let's speak about budget

427

00:16:35,749 --> 00:16:32,320

again this is very consistent with our

428

00:16:38,150 --> 00:16:35,759

standard grant review panels so a budget

429

00:16:39,910 --> 00:16:38,160

we would estimate anywhere between a few

430

00:16:45,670 --> 00:16:39,920

tens of thousands of dollars certainly

431

00:16:49,990 --> 00:16:47,430

all right thank you we'll take the next

432

00:16:54,629 --> 00:16:50,000

question

433

00:16:57,829 --> 00:16:54,639

with reuters you may go ahead

434

00:17:00,470 --> 00:16:57,839

hey thank you um question for dr zubukin

435

00:17:03,189 --> 00:17:00,480

um pentagon and nasa officials have

436

00:17:05,669 --> 00:17:03,199

talked about nasa's involvement

437

00:17:07,669 --> 00:17:05,679

in this uap kind of research effort in

438

00:17:10,230 --> 00:17:07,679

the past and i think when you and i

439

00:17:11,829 --> 00:17:10,240

actually talked about it like a year ago

440

00:17:13,669 --> 00:17:11,839

you said kind of nasa was looking into

441

00:17:15,429 --> 00:17:13,679

this and seeing how it could help uap

442

00:17:17,350 --> 00:17:15,439

efforts and kind of similar things that

443

00:17:19,990 --> 00:17:17,360

was announced today so i guess i'm just

444

00:17:22,870 --> 00:17:20,000

wondering why announce this now and what

445

00:17:25,029 --> 00:17:22,880

prompted plans to kind of form this

446

00:17:27,510 --> 00:17:25,039

study panel and and also what progress

447

00:17:32,950 --> 00:17:27,520

if any has nasa made in the uap effort

448

00:17:37,669 --> 00:17:35,110

the um

449

00:17:41,350 --> 00:17:37,679

department of defense kind of work

450

00:17:43,990 --> 00:17:41,360

is uh is clearly there and uh you know

451
00:17:45,590 --> 00:17:44,000
has drawn a lot of attention

452
00:17:47,350 --> 00:17:45,600
and it's always very hard kind of if you

453
00:17:49,990 --> 00:17:47,360
say hey that has nothing to do with what

454
00:17:52,070 --> 00:17:50,000
we're doing some somebody else you know

455
00:17:54,230 --> 00:17:52,080
said uh you know like hey was it your

456
00:17:56,230 --> 00:17:54,240
new boss uh you know the administrator

457
00:17:57,830 --> 00:17:56,240
nelson who made you do this and it's

458
00:17:59,430 --> 00:17:57,840
very hard to say it's like oh that had

459
00:18:01,909 --> 00:17:59,440
absolutely no influence of course it has

460
00:18:03,270 --> 00:18:01,919
influence but i want you to know that

461
00:18:06,710 --> 00:18:03,280
the major reason we're doing and we're

462
00:18:10,710 --> 00:18:06,720
doing it now is uh is because of the uh

463
00:18:13,029 --> 00:18:10,720

because of the science uh you know um uh

464

00:18:14,870 --> 00:18:13,039

interest and because of the safety kind

465

00:18:16,950 --> 00:18:14,880

of issues that relate to this airspace

466

00:18:18,470 --> 00:18:16,960

that uh that we think

467

00:18:20,549 --> 00:18:18,480

matters uh i

468

00:18:21,750 --> 00:18:20,559

mean you know as opposed to i mean if

469

00:18:24,230 --> 00:18:21,760

you could have done it a little bit

470

00:18:25,830 --> 00:18:24,240

earlier uh that that's perfectly fine

471

00:18:27,510 --> 00:18:25,840

but we really started thinking about

472

00:18:29,190 --> 00:18:27,520

this especially in the context of kind

473

00:18:32,070 --> 00:18:29,200

of the overall dialogue we've been

474

00:18:33,750 --> 00:18:32,080

working on this for a while uh really

475

00:18:34,630 --> 00:18:33,760

trying to make sure

476

00:18:38,549 --> 00:18:34,640

that

477

00:18:40,230 --> 00:18:38,559

did we set this up the right way because

478

00:18:42,630 --> 00:18:40,240

at the end you know kind of the quality

479

00:18:44,470 --> 00:18:42,640

of science investigations need to be the

480

00:18:47,430 --> 00:18:44,480

same no matter what we do and we will

481

00:18:49,190 --> 00:18:47,440

insist on it here also uh that the one

482

00:18:51,430 --> 00:18:49,200

difference of course between this and

483

00:18:52,789 --> 00:18:51,440

other agencies as we expect is to be

484

00:18:58,070 --> 00:18:52,799

entirely in the public domain which is

485

00:19:02,150 --> 00:18:59,750

all right thank you

486

00:19:04,310 --> 00:19:02,160

we'll go to the next question

487

00:19:07,830 --> 00:19:04,320

our next question is from marina corin

488

00:19:10,390 --> 00:19:07,840

with the atlantic you may go ahead

489

00:19:12,870 --> 00:19:10,400

hi everyone uh two questions for thomas

490

00:19:13,590 --> 00:19:12,880

um first to follow up on what joey asked

491

00:19:15,990 --> 00:19:13,600

um

492

00:19:18,710 --> 00:19:16,000

whose idea was it for nasa to establish

493

00:19:20,950 --> 00:19:18,720

this uap study team did it come from

494

00:19:23,750 --> 00:19:20,960

administrator nelson and he directed you

495

00:19:25,830 --> 00:19:23,760

to make these moves um and you also said

496

00:19:27,190 --> 00:19:25,840

that this effort lines up with nasa's

497

00:19:29,510 --> 00:19:27,200

air safety

498

00:19:30,950 --> 00:19:29,520

goals um why then is the team going to

499

00:19:32,630 --> 00:19:30,960

be housed in the science mission

500

00:19:35,029 --> 00:19:32,640

directorate and not for example the

501
00:19:37,270 --> 00:19:35,039
aeronautics research mission directorate

502
00:19:39,029 --> 00:19:37,280
thank you

503
00:19:40,549 --> 00:19:39,039
so you saw the administrator kind of

504
00:19:43,029 --> 00:19:40,559
directing me and

505
00:19:44,789 --> 00:19:43,039
uh in front of camera before that hey

506
00:19:46,070 --> 00:19:44,799
thomas you should deal with that his

507
00:19:48,549 --> 00:19:46,080
instinct is

508
00:19:50,789 --> 00:19:48,559
exactly right the science

509
00:19:54,230 --> 00:19:50,799
play the science uh discipline is where

510
00:19:57,270 --> 00:19:54,240
these questions should be addressed uh

511
00:19:59,669 --> 00:19:57,280
so but uh it is my decision to turn put

512
00:20:02,470 --> 00:19:59,679
this up i did not i was not asked by

513
00:20:05,110 --> 00:20:02,480

anybody to to do this or find this

514

00:20:07,669 --> 00:20:05,120

particular approach this is the way

515

00:20:10,070 --> 00:20:07,679

i believe this should be done to

516

00:20:12,870 --> 00:20:10,080

actually add to this discussion

517

00:20:14,149 --> 00:20:12,880

and uh it's a well-proof and frankly an

518

00:20:17,029 --> 00:20:14,159

uh

519

00:20:19,669 --> 00:20:17,039

an approach i've used before in multiple

520

00:20:22,310 --> 00:20:19,679

occasions to really go into a field and

521

00:20:25,270 --> 00:20:22,320

kind of tackle a problem that is

522

00:20:26,789 --> 00:20:25,280

that is very much kind of ambiguous kind

523

00:20:28,149 --> 00:20:26,799

of when you start so i think it's

524

00:20:30,549 --> 00:20:28,159

exactly the right

525

00:20:32,630 --> 00:20:30,559

way to go the fact that we uh you know

526

00:20:34,549 --> 00:20:32,640

get one of the best leaders i believe in

527

00:20:37,110 --> 00:20:34,559

the field really will make gift us a lot

528

00:20:39,510 --> 00:20:37,120

you know with david spurkle and dana and

529

00:20:43,270 --> 00:20:39,520

will really gives us a lot of credence

530

00:20:47,350 --> 00:20:45,110

all right this is down here i just uh

531

00:20:49,909 --> 00:20:47,360

quickly point out that you know this

532

00:20:52,310 --> 00:20:49,919

wasn't done in a vacuum we of course

533

00:20:54,149 --> 00:20:52,320

have consulted with our counterparts in

534

00:20:55,750 --> 00:20:54,159

aeronautics within nasa they've been

535

00:20:57,750 --> 00:20:55,760

absolutely tremendous

536

00:20:58,710 --> 00:20:57,760

in helping us stand up this and in the

537

00:21:00,470 --> 00:20:58,720

charge

538

00:21:02,149 --> 00:21:00,480

to the independent study team that

539

00:21:03,909 --> 00:21:02,159

thomas presented this morning at the

540

00:21:05,830 --> 00:21:03,919

national academy you can actually see

541

00:21:07,750 --> 00:21:05,840

that that there are numerous airspace

542

00:21:08,950 --> 00:21:07,760

safety charge elements in there that

543

00:21:10,710 --> 00:21:08,960

were directly introduced by our

544

00:21:13,510 --> 00:21:10,720

counterparts in aeronautics so you know

545

00:21:16,070 --> 00:21:13,520

we're doing this in lockstep with them

546

00:21:17,830 --> 00:21:16,080

yeah i'm really glad you said that uh

547

00:21:19,669 --> 00:21:17,840

dan you know you know the way we're

548

00:21:22,070 --> 00:21:19,679

organized and the disciplines there's

549

00:21:23,830 --> 00:21:22,080

multiple uh ways of organizing this but

550

00:21:26,070 --> 00:21:23,840

it kind of one organization needs to

551
00:21:27,590 --> 00:21:26,080
take charge of it and then uh what we've

552
00:21:29,029 --> 00:21:27,600
done in a number of cases look at the

553
00:21:32,149 --> 00:21:29,039
commercial lunar payload services

554
00:21:35,190 --> 00:21:32,159
there's basically four entities are are

555
00:21:37,750 --> 00:21:35,200
funding that we own it here uh there's

556
00:21:39,430 --> 00:21:37,760
other uh things that other entities are

557
00:21:42,149 --> 00:21:39,440
running for us you know some of the

558
00:21:44,630 --> 00:21:42,159
space station work is running over by

559
00:21:46,710 --> 00:21:44,640
kathy leaders uh organization but you

560
00:21:48,470 --> 00:21:46,720
know like we have a lot of science uh

561
00:21:51,350 --> 00:21:48,480
impacts the same is true with deep space

562
00:21:53,110 --> 00:21:51,360
network and others right so so just

563
00:21:54,470 --> 00:21:53,120

i don't think there's more message to it

564

00:21:56,630 --> 00:21:54,480
other than us trying to figure out

565

00:21:59,190 --> 00:21:56,640
where's the where's the central

566

00:22:00,870 --> 00:21:59,200
part of the investigation and kind of

567

00:22:02,870 --> 00:22:00,880
tipped in our favor

568

00:22:04,789 --> 00:22:02,880
the fact that the administrator kind of

569

00:22:07,750 --> 00:22:04,799
gave me the actions ernie also had an

570

00:22:12,950 --> 00:22:08,950
all right we'll go on to the next

571

00:22:18,470 --> 00:22:14,710
our next question is from michael sheets

572

00:22:20,710 --> 00:22:18,480
with cnbc you may go ahead

573

00:22:23,029 --> 00:22:20,720
hi everybody i'm curious about the

574

00:22:24,630 --> 00:22:23,039
existing resources and

575

00:22:27,750 --> 00:22:24,640
data sets

576

00:22:30,549 --> 00:22:27,760

databases across nasa

577

00:22:34,070 --> 00:22:30,559

who before now has been really you know

578

00:22:35,350 --> 00:22:34,080

in charge of collecting nasa's side of

579

00:22:36,950 --> 00:22:35,360

things obviously we talked a little bit

580

00:22:39,190 --> 00:22:36,960

about the pentagon task force that's

581

00:22:41,430 --> 00:22:39,200

been collecting data and just recently

582

00:22:44,149 --> 00:22:41,440

testified showing a couple of videos of

583

00:22:47,029 --> 00:22:44,159

uap instances but i'm curious about you

584

00:22:49,750 --> 00:22:47,039

know what you guys already know and

585

00:22:50,950 --> 00:22:49,760

maybe over the decades have collected of

586

00:22:52,870 --> 00:22:50,960

instances

587

00:22:55,190 --> 00:22:52,880

and uh maybe that the public wasn't

588

00:22:56,870 --> 00:22:55,200

aware of before

589

00:22:59,029 --> 00:22:56,880

i think i'm gonna i'm gonna get started

590

00:23:00,149 --> 00:22:59,039

and then i'm gonna kick it over to uh to

591

00:23:02,710 --> 00:23:00,159

dan

592

00:23:06,710 --> 00:23:02,720

uh i'm not aware of any systematic or

593

00:23:09,669 --> 00:23:06,720

even kind of uh kind of sporadic kind of

594

00:23:11,190 --> 00:23:09,679

examinations of nasa data uh with that

595

00:23:13,510 --> 00:23:11,200

in mind i'm sure there are some but i'm

596

00:23:15,990 --> 00:23:13,520

not aware of any certainly not at the

597

00:23:18,149 --> 00:23:16,000

level that came to my attention

598

00:23:19,029 --> 00:23:18,159

uh the way the way we have done this

599

00:23:20,630 --> 00:23:19,039

right

600

00:23:22,789 --> 00:23:20,640

of course what we're doing is with our

601
00:23:24,950 --> 00:23:22,799
20 plus assets that are in space and an

602
00:23:26,789 --> 00:23:24,960
increasing number of commercial partners

603
00:23:28,950 --> 00:23:26,799
we're looking at the earth in new ways

604
00:23:31,190 --> 00:23:28,960
and we're also looking the other way at

605
00:23:33,110 --> 00:23:31,200
the sky in new ways

606
00:23:34,390 --> 00:23:33,120
with assets that we have but also with

607
00:23:36,470 --> 00:23:34,400
assets of the national science

608
00:23:38,950 --> 00:23:36,480
foundation and others are putting up

609
00:23:40,390 --> 00:23:38,960
including uh commercial entities uh you

610
00:23:43,269 --> 00:23:40,400
know and then the question just really

611
00:23:45,669 --> 00:23:43,279
is how do we use uh technologies such as

612
00:23:48,230 --> 00:23:45,679
ai and ml and other technologies that by

613
00:23:50,710 --> 00:23:48,240

the way are a pi priority for us

614

00:23:53,430 --> 00:23:50,720

here to kind of really make progress and

615

00:23:55,750 --> 00:23:53,440

sifting through the data towards uh uh

616

00:23:58,710 --> 00:23:55,760

finding some of these uh kind of uh

617

00:24:00,870 --> 00:23:58,720

interesting uh uh you know events that

618

00:24:03,669 --> 00:24:00,880

uh uh you know have the characteristics

619

00:24:06,230 --> 00:24:03,679

of of uap so so the data are here kind

620

00:24:08,070 --> 00:24:06,240

of our respective organizations uh have

621

00:24:09,590 --> 00:24:08,080

them and have done it you know and you

622

00:24:10,870 --> 00:24:09,600

know the data are public so i really

623

00:24:12,630 --> 00:24:10,880

don't know

624

00:24:15,590 --> 00:24:12,640

whether other people

625

00:24:17,830 --> 00:24:15,600

use these data uh for their uh

626
00:24:19,669 --> 00:24:17,840
for their research i sure hope they are

627
00:24:21,669 --> 00:24:19,679
you know we're always very excited

628
00:24:23,350 --> 00:24:21,679
people pull down data

629
00:24:25,910 --> 00:24:23,360
and kind of investigate them at their

630
00:24:27,590 --> 00:24:25,920
own interest in mind

631
00:24:29,510 --> 00:24:27,600
[Music]

632
00:24:31,269 --> 00:24:29,520
yeah i'll just quickly add on that you

633
00:24:33,269 --> 00:24:31,279
know i don't think anybody at nasa has

634
00:24:35,029 --> 00:24:33,279
you know sort of systematically looked

635
00:24:37,350 --> 00:24:35,039
into uap's um

636
00:24:39,110 --> 00:24:37,360
in the past at least to my knowledge but

637
00:24:41,110 --> 00:24:39,120
i think that one of the things that this

638
00:24:43,909 --> 00:24:41,120

independent study will find is that

639

00:24:46,230 --> 00:24:43,919

there is an enormous wealth of data that

640

00:24:48,549 --> 00:24:46,240

is held in in public archives so it can

641

00:24:49,990 --> 00:24:48,559

be brought to bear upon this problem

642

00:24:52,310 --> 00:24:50,000

remember one of the things we're trying

643

00:24:55,269 --> 00:24:52,320

to do here again as tom has said is to

644

00:24:57,110 --> 00:24:55,279

turn what is ostensibly a data poor

645

00:24:59,430 --> 00:24:57,120

field into a data rich one and that's

646

00:25:01,350 --> 00:24:59,440

when we can really begin to tackle

647

00:25:02,789 --> 00:25:01,360

those interesting questions that are on

648

00:25:06,710 --> 00:25:02,799

the tips of everybody's tongues about

649

00:25:11,510 --> 00:25:08,310

all right thank you we'll move on to our

650

00:25:16,310 --> 00:25:13,510

our next question is from gaddy schwartz

651
00:25:18,070 --> 00:25:16,320
with nbc you may go ahead

652
00:25:20,789 --> 00:25:18,080
hey there just following up on that last

653
00:25:23,510 --> 00:25:20,799
question so uh just

654
00:25:26,630 --> 00:25:23,520
dovetailing nasa has tens of thousands

655
00:25:28,310 --> 00:25:26,640
of hours of video of spacecraft the

656
00:25:30,870 --> 00:25:28,320
international space station it can be

657
00:25:33,350 --> 00:25:30,880
argued that nasa's got more access to

658
00:25:35,830 --> 00:25:33,360
the public data looking up and looking

659
00:25:37,510 --> 00:25:35,840
down than any other public organization

660
00:25:39,350 --> 00:25:37,520
in the world so

661
00:25:41,909 --> 00:25:39,360
are we to understand that

662
00:25:43,909 --> 00:25:41,919
that you will be reviewing

663
00:25:44,950 --> 00:25:43,919

all that's accessible

664

00:25:47,990 --> 00:25:44,960

uh

665

00:25:51,029 --> 00:25:48,000

publicly within nasa as well as

666

00:25:53,190 --> 00:25:51,039

other public videos or or signals

667

00:25:55,029 --> 00:25:53,200

intelligence or whatever that may be and

668

00:25:58,630 --> 00:25:55,039

putting it in a study for a hundred

669

00:26:04,070 --> 00:26:01,110

okay i can answer that let's just dab

670

00:26:06,310 --> 00:26:04,080

this is no different to any scientific

671

00:26:08,070 --> 00:26:06,320

investigation that we would on to

672

00:26:10,230 --> 00:26:08,080

undertake and the first one the first

673

00:26:13,190 --> 00:26:10,240

step in any of those investigations is

674

00:26:14,549 --> 00:26:13,200

to figure out what data is at hand

675

00:26:16,710 --> 00:26:14,559

that's step one

676

00:26:19,750 --> 00:26:16,720

this is all this study is doing is to

677

00:26:21,350 --> 00:26:19,760

figure out what data one might use to

678

00:26:24,230 --> 00:26:21,360

interrogate better

679

00:26:26,470 --> 00:26:24,240

uat okay we're not actually going to be

680

00:26:28,230 --> 00:26:26,480

certain within that budget uh analyzing

681

00:26:30,230 --> 00:26:28,240

those data directly this is just step

682

00:26:37,029 --> 00:26:30,240

one what data are out there that could

683

00:26:40,789 --> 00:26:38,390

all right we'll move on to the next

684

00:26:43,269 --> 00:26:40,799

question oh sorry with anything more oh

685

00:26:44,870 --> 00:26:43,279

yeah yeah just just uh so just to

686

00:26:46,549 --> 00:26:44,880

clarify

687

00:26:49,510 --> 00:26:46,559

so what what will that be so there will

688

00:26:51,909 --> 00:26:49,520

be no determination on whether

689

00:26:52,950 --> 00:26:51,919

this is prosaic or something else it'll

690

00:26:54,470 --> 00:26:52,960

just be

691

00:26:57,830 --> 00:26:54,480

basically what we've kind of seen from

692

00:27:00,710 --> 00:26:57,840

the dod which is uh we have you know 200

693

00:27:02,950 --> 00:27:00,720

and some cases or or such and such many

694

00:27:05,190 --> 00:27:02,960

cases of unexpected phenomenon is that

695

00:27:07,110 --> 00:27:05,200

is that what the the final products or

696

00:27:09,669 --> 00:27:07,120

the final first product may look like at

697

00:27:11,750 --> 00:27:09,679

the end of this study

698

00:27:13,350 --> 00:27:11,760

why don't i take that one

699

00:27:14,789 --> 00:27:13,360

my guess is to define a product and

700

00:27:17,350 --> 00:27:14,799

frankly i want to kick it over to dave

701
00:27:20,070 --> 00:27:17,360
in just a sec here but what that what i

702
00:27:22,630 --> 00:27:20,080
expect the final product to look like is

703
00:27:25,590 --> 00:27:22,640
to really address the questions uh that

704
00:27:28,230 --> 00:27:25,600
relate to what are the data we should be

705
00:27:30,870 --> 00:27:28,240
looking at how should we doing that are

706
00:27:33,029 --> 00:27:30,880
there data we should uh get that with

707
00:27:35,669 --> 00:27:33,039
that are not uh that are not currently

708
00:27:38,310 --> 00:27:35,679
there so it's much more kind of uh that

709
00:27:40,789 --> 00:27:38,320
the output from this particular study is

710
00:27:43,269 --> 00:27:40,799
not to sift through all the data and do

711
00:27:45,830 --> 00:27:43,279
all this research it's to kind of make a

712
00:27:48,149 --> 00:27:45,840
proposal for a research program that we

713
00:27:49,909 --> 00:27:48,159

can then implement based on uh the

714

00:27:52,950 --> 00:27:49,919

inputs and the principles that are there

715

00:27:54,389 --> 00:27:52,960

dave i'll kick it to you

716

00:27:56,310 --> 00:27:54,399

yeah i mean i just

717

00:27:58,870 --> 00:27:56,320

just to reinforce what thomas said i

718

00:28:01,190 --> 00:27:58,880

think we will end up probably saying

719

00:28:02,950 --> 00:28:01,200

look here's the data we have usually

720

00:28:05,350 --> 00:28:02,960

when you do that you then reach the

721

00:28:07,510 --> 00:28:05,360

conclusion that well the data we have is

722

00:28:08,710 --> 00:28:07,520

okay but if only we took the data

723

00:28:11,190 --> 00:28:08,720

differently

724

00:28:12,950 --> 00:28:11,200

you know observed from above and below a

725

00:28:14,310 --> 00:28:12,960

certain region of the sky at the same

726

00:28:16,149 --> 00:28:14,320

time for example

727

00:28:18,470 --> 00:28:16,159

without having done the analysis i don't

728

00:28:20,870 --> 00:28:18,480

know what it'll look like but

729

00:28:23,669 --> 00:28:20,880

ways of observing the future

730

00:28:26,230 --> 00:28:23,679

that might give much more insight

731

00:28:27,430 --> 00:28:26,240

ways of analysis in the future

732

00:28:30,070 --> 00:28:27,440

you know uh

733

00:28:32,310 --> 00:28:30,080

you know thomas mentioned ai and ml we

734

00:28:35,269 --> 00:28:32,320

now have a lot of methodologies that are

735

00:28:37,830 --> 00:28:35,279

effective at finding anomalous events

736

00:28:42,230 --> 00:28:37,840

finding fast moving objects finding

737

00:28:47,430 --> 00:28:45,110

i'm imagining we will end up pointing it

738

00:28:48,389 --> 00:28:47,440

perhaps in future directions

739

00:28:50,470 --> 00:28:48,399

that

740

00:28:53,110 --> 00:28:50,480

nasa may want to consider

741

00:28:54,950 --> 00:28:53,120

uh future stuff you know we will

742

00:28:57,350 --> 00:28:54,960

hopefully at least

743

00:29:01,510 --> 00:28:57,360

lay out some of the roadmap of how we

744

00:29:08,310 --> 00:29:03,909

great thank you so much we will move on

745

00:29:12,389 --> 00:29:10,310

and our next question is from kenneth

746

00:29:13,830 --> 00:29:12,399

chang with the new york times you may go

747

00:29:15,590 --> 00:29:13,840

ahead

748

00:29:17,669 --> 00:29:15,600

thank you all right this is for thomas

749

00:29:19,510 --> 00:29:17,679

so i was wondering now that nasa has

750

00:29:21,269 --> 00:29:19,520

sort of openly

751

00:29:23,909 --> 00:29:21,279

to the possibility that it could be

752

00:29:25,430 --> 00:29:23,919

intelligent aliens visiting earth what

753

00:29:27,350 --> 00:29:25,440

are the prospects that nasa could get

754

00:29:29,669 --> 00:29:27,360

back into business looking for

755

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

alien intelligence in the universe um

756

00:29:33,909 --> 00:29:31,679

nasa hasn't has done hardly any study

757

00:29:36,310 --> 00:29:33,919

work for decades and a lot of it was

758

00:29:38,470 --> 00:29:36,320

because of skepticism from congress but

759

00:29:40,389 --> 00:29:38,480

it seems congress seems to be more open

760

00:29:43,590 --> 00:29:40,399

to that now

761

00:29:48,470 --> 00:29:46,950

look i mean i have we have done work

762

00:29:52,149 --> 00:29:48,480

on uh

763

00:29:54,549 --> 00:29:52,159

both looking at kind of uh the sky at a

764

00:29:56,310 --> 00:29:54,559

variety of wavelength ranges but also

765

00:29:58,310 --> 00:29:56,320

looking for techno signatures that

766

00:29:59,590 --> 00:29:58,320

aren't currently funding those research

767

00:30:03,350 --> 00:29:59,600

projects

768

00:30:05,110 --> 00:30:03,360

and uh so so yes it is true that uh

769

00:30:07,669 --> 00:30:05,120

kind of there was a period where perhaps

770

00:30:10,310 --> 00:30:07,679

that was less abundant but uh now we've

771

00:30:13,029 --> 00:30:10,320

deliberately included that into our

772

00:30:14,630 --> 00:30:13,039

research portfolio so i'm not aware of

773

00:30:16,630 --> 00:30:14,640

kind of research we're artificially

774

00:30:18,630 --> 00:30:16,640

stifling from one or the other side what

775

00:30:20,549 --> 00:30:18,640

we're really trying to do here though

776

00:30:23,350 --> 00:30:20,559

is start the investigation without an

777

00:30:26,310 --> 00:30:23,360

outcome in mind uh you know really being

778

00:30:27,669 --> 00:30:26,320

open to many different options uh you

779

00:30:30,630 --> 00:30:27,679

know i think david

780

00:30:33,350 --> 00:30:30,640

sparkle said it well right kind of uh

781

00:30:35,750 --> 00:30:33,360

being aware that multiple

782

00:30:36,549 --> 00:30:35,760

sources of explanations could be there

783

00:30:38,950 --> 00:30:36,559

but

784

00:30:41,269 --> 00:30:38,960

i'm not aware of any guidance that that

785

00:30:41,990 --> 00:30:41,279

i have or that i've implemented

786

00:30:48,789 --> 00:30:42,000

that

787

00:30:53,110 --> 00:30:51,830

and and can i we have just a hand we do

788

00:30:54,870 --> 00:30:53,120

have some uh things that have been

789

00:30:57,750 --> 00:30:54,880

funded on techno signatures if you want

790

00:30:59,750 --> 00:30:57,760

me to follow up with you on that uh our

791

00:31:01,909 --> 00:30:59,760

our one set of guidances is always from

792

00:31:05,669 --> 00:31:01,919

space observations because that is what

793

00:31:10,230 --> 00:31:05,679

we do so we don't we don't fund from

794

00:31:14,389 --> 00:31:11,669

but if nothing else on that we can move

795

00:31:17,669 --> 00:31:15,909

our next question is from andrea

796

00:31:20,230 --> 00:31:17,679

leinfelder with the houston chronicle

797

00:31:22,710 --> 00:31:20,240

you may go ahead

798

00:31:24,389 --> 00:31:22,720

hi um this is following up a little bit

799

00:31:25,990 --> 00:31:24,399

on um

800

00:31:27,750 --> 00:31:26,000

on just how

801
00:31:29,269 --> 00:31:27,760
uaps has been observed thus far so you

802
00:31:31,669 --> 00:31:29,279
know a lot of the dod observation

803
00:31:33,350 --> 00:31:31,679
release have been from naval aviators

804
00:31:34,470 --> 00:31:33,360
and so david i'm always wondering if you

805
00:31:35,909 --> 00:31:34,480
could just

806
00:31:37,269 --> 00:31:35,919
talk a little bit about what the study

807
00:31:39,350 --> 00:31:37,279
you said might be

808
00:31:41,110 --> 00:31:39,360
telescopes or satellites do you know

809
00:31:43,430 --> 00:31:41,120
these have been used before to spot any

810
00:31:44,789 --> 00:31:43,440
of these uaps and i know part of this is

811
00:31:46,470 --> 00:31:44,799
figuring out how to collect that in the

812
00:31:48,870 --> 00:31:46,480
future but if you could just talk to how

813
00:31:51,909 --> 00:31:48,880

maybe we're looking at things other than

814

00:31:52,710 --> 00:31:51,919

just naval aviators thank you

815

00:31:54,549 --> 00:31:52,720

um

816

00:31:57,350 --> 00:31:54,559

as far as i know

817

00:31:59,909 --> 00:31:57,360

um and do i expect to learn more as a

818

00:32:01,669 --> 00:31:59,919

study goes forward i do not know of any

819

00:32:02,870 --> 00:32:01,679

systematic study to do that with

820

00:32:04,310 --> 00:32:02,880

graduates

821

00:32:07,110 --> 00:32:04,320

you know either

822

00:32:10,389 --> 00:32:07,120

ground-based telescopes looking up uh

823

00:32:21,350 --> 00:32:10,399

atmospheric observations or

824

00:32:24,789 --> 00:32:23,269

there's actually a wealth of data that

825

00:32:30,630 --> 00:32:24,799

we have collected

826

00:32:35,029 --> 00:32:32,230

all right thank you

827

00:32:37,350 --> 00:32:35,039

moving on to the next question

828

00:32:40,470 --> 00:32:37,360

our next question is from miriam cramer

829

00:32:42,710 --> 00:32:40,480

with axios you may go ahead

830

00:32:45,110 --> 00:32:42,720

hi this question is for uh

831

00:32:47,350 --> 00:32:45,120

thomas and david i think um

832

00:32:49,269 --> 00:32:47,360

do you think that uaps should be

833

00:32:51,350 --> 00:32:49,279

discussed in the same breath as other

834

00:32:52,950 --> 00:32:51,360

more mainstream scientific searches for

835

00:32:54,950 --> 00:32:52,960

life in the universe whether it be you

836

00:32:57,110 --> 00:32:54,960

know looking for microbes on mars

837

00:33:00,389 --> 00:32:57,120

or techno signatures

838

00:33:00,399 --> 00:33:03,990

i'll let you go david

839

00:33:07,110 --> 00:33:06,149

yeah i would group them

840

00:33:08,710 --> 00:33:07,120

more

841

00:33:11,029 --> 00:33:08,720

at this point

842

00:33:13,110 --> 00:33:11,039

with um

843

00:33:15,509 --> 00:33:13,120

when you're looking for life on mars you

844

00:33:17,669 --> 00:33:15,519

know what you're in a sense you start

845

00:33:19,909 --> 00:33:17,679

out with a hypothesis that you want to

846

00:33:21,669 --> 00:33:19,919

test and you start out with a modeling

847

00:33:23,669 --> 00:33:21,679

morning test

848

00:33:26,389 --> 00:33:23,679

the approach i think we want to take

849

00:33:29,269 --> 00:33:26,399

here is a different one this is a

850

00:33:31,110 --> 00:33:29,279

phenomenon we don't understand

851
00:33:33,269 --> 00:33:31,120
and we want to collect more data on the

852
00:33:34,070 --> 00:33:33,279
phenomenon i don't think we want to go

853
00:33:35,269 --> 00:33:34,080
in

854
00:33:37,830 --> 00:33:35,279
um

855
00:33:40,950 --> 00:33:37,840
with particular hypotheses coming into

856
00:33:44,950 --> 00:33:43,269
yeah i i agree with this i kind of i

857
00:33:47,669 --> 00:33:44,960
want to say because

858
00:33:49,830 --> 00:33:47,679
in my kind of scientific lifetimes you

859
00:33:51,509 --> 00:33:49,840
know some of these uh night glowing

860
00:33:55,029 --> 00:33:51,519
clouds that were

861
00:33:56,789 --> 00:33:55,039
that were frankly hypothesized of being

862
00:33:59,110 --> 00:33:56,799
kind of uh you know having very

863
00:34:01,509 --> 00:33:59,120

different origins that we now know they

864

00:34:02,950 --> 00:34:01,519

have kind of was a kind of analogy of

865

00:34:05,909 --> 00:34:02,960

that kind of uh

866

00:34:07,990 --> 00:34:05,919

an event a serie a phenomena that has

867

00:34:10,550 --> 00:34:08,000

certain characteristics and kind of by

868

00:34:12,950 --> 00:34:10,560

bringing data to bear and eventually

869

00:34:14,950 --> 00:34:12,960

models could be explained uh you know so

870

00:34:17,430 --> 00:34:14,960

so it really is it's more that again to

871

00:34:19,510 --> 00:34:17,440

get to that answer multiple

872

00:34:22,069 --> 00:34:19,520

routes of investigation were pursued and

873

00:34:23,589 --> 00:34:22,079

multiple hypotheses were put forward and

874

00:34:26,310 --> 00:34:23,599

at the end it turned out to be a really

875

00:34:28,470 --> 00:34:26,320

beautiful uh set of science uh going

876

00:34:29,990 --> 00:34:28,480

forward so yes it really is kind of a

877

00:34:34,310 --> 00:34:30,000

slightly different

878

00:34:35,349 --> 00:34:34,320

approach that is very common in science

879

00:34:37,270 --> 00:34:35,359

right sometimes you just don't

880

00:34:40,869 --> 00:34:37,280

understand something and you start

881

00:34:42,869 --> 00:34:40,879

poking at it from multiple directions

882

00:34:44,629 --> 00:34:42,879

great um we've got gorgeous pictures of

883

00:34:46,310 --> 00:34:44,639

those noctilucent clouds that thomas

884

00:34:49,190 --> 00:34:46,320

just mentioned if everybody's interested

885

00:34:52,629 --> 00:34:49,200

i'll pass them along too

886

00:34:54,310 --> 00:34:52,639

we can go on to the next question

887

00:34:58,390 --> 00:34:54,320

our next question is from mike wahl with

888

00:35:02,310 --> 00:35:00,310

thank you guys um yeah this one's

889

00:35:04,630 --> 00:35:02,320

probably for dr z do you hope one of the

890

00:35:06,950 --> 00:35:04,640

outcomes of this study is to kind of

891

00:35:08,390 --> 00:35:06,960

normalize this this sort of research

892

00:35:10,310 --> 00:35:08,400

program going forward you know taking

893

00:35:11,990 --> 00:35:10,320

something that might be a little outrage

894

00:35:13,910 --> 00:35:12,000

but bringing it more into the mainstream

895

00:35:16,069 --> 00:35:13,920

and giving like kind of masses and

896

00:35:17,589 --> 00:35:16,079

primitive to that will bring more people

897

00:35:19,910 --> 00:35:17,599

into the study i mean is that one of the

898

00:35:21,910 --> 00:35:19,920

outcomes that you hope to achieve is to

899

00:35:23,109 --> 00:35:21,920

is to kind of like normalize this sort

900

00:35:24,950 --> 00:35:23,119

of thinking

901
00:35:26,790 --> 00:35:24,960
going forward

902
00:35:29,030 --> 00:35:26,800
one of the outcomes of the study for me

903
00:35:31,349 --> 00:35:29,040
would be to kind of

904
00:35:33,829 --> 00:35:31,359
communicate to everybody uh whether it's

905
00:35:35,589 --> 00:35:33,839
our own community and and more broadly

906
00:35:37,910 --> 00:35:35,599
that the science process is a valid

907
00:35:41,030 --> 00:35:37,920
process for any and all problems

908
00:35:42,470 --> 00:35:41,040
including that one so so for me

909
00:35:44,470 --> 00:35:42,480
so i turn it on its head do you see what

910
00:35:46,470 --> 00:35:44,480
i'm saying i mean i i just really

911
00:35:48,310 --> 00:35:46,480
believe that uh

912
00:35:51,030 --> 00:35:48,320
these kind of processes that that we

913
00:35:53,190 --> 00:35:51,040

that have proven to be so transformative

914

00:35:55,430 --> 00:35:53,200

for how we understand our universe are

915

00:35:58,310 --> 00:35:55,440

very much useful including for those

916

00:36:00,069 --> 00:35:58,320

problems

917

00:36:01,750 --> 00:36:00,079

okay great thank you

918

00:36:03,829 --> 00:36:01,760

and we have time for only one more

919

00:36:06,390 --> 00:36:03,839

question today uh for those we don't get

920

00:36:08,790 --> 00:36:06,400

to uh do feel free to reach out directly

921

00:36:10,230 --> 00:36:08,800

to me karen boxer to the newsroom

922

00:36:12,790 --> 00:36:10,240

and we will try to get your questions

923

00:36:16,150 --> 00:36:12,800

answered but we have one more question

924

00:36:17,430 --> 00:36:16,160

so i'll toss to you holly for that

925

00:36:19,670 --> 00:36:17,440

thank you our next question is from

926

00:36:21,670 --> 00:36:19,680

irene cloth with aviation week you may

927

00:36:23,670 --> 00:36:21,680

go ahead

928

00:36:27,109 --> 00:36:23,680

thanks very much um i think this is

929

00:36:29,670 --> 00:36:27,119

probably for uh dr spurgle

930

00:36:32,870 --> 00:36:29,680

as the study group leader will you have

931

00:36:34,390 --> 00:36:32,880

access to classified information and if

932

00:36:37,670 --> 00:36:34,400

not

933

00:36:41,750 --> 00:36:37,680

how will that limit the scope of what

934

00:36:47,030 --> 00:36:44,630

i do not have classified clearance and

935

00:36:50,230 --> 00:36:47,040

we want this to be an open study

936

00:36:51,910 --> 00:36:50,240

so what we will rely on is

937

00:36:55,030 --> 00:36:51,920

some members of the community will have

938

00:36:56,710 --> 00:36:55,040

clearances if we need some insights we

939

00:36:58,870 --> 00:36:56,720

can obtain them i hope

940

00:37:01,190 --> 00:36:58,880

but mostly i think we will be trying to

941

00:37:04,710 --> 00:37:01,200

see what we can learn

942

00:37:06,310 --> 00:37:04,720

from the open data as

943

00:37:07,270 --> 00:37:06,320

we've mentioned already i think there's

944

00:37:09,670 --> 00:37:07,280

actually

945

00:37:12,069 --> 00:37:09,680

likely a lot of information

946

00:37:14,630 --> 00:37:12,079

in the open data that has not been

947

00:37:19,510 --> 00:37:14,640

looked at yet not been used and we can

948

00:37:24,310 --> 00:37:19,520

use um open processes uh for uh

949

00:37:28,310 --> 00:37:26,230

this is dan if i may quickly add on to

950

00:37:30,710 --> 00:37:28,320

that you know what one of the things

951
00:37:32,470 --> 00:37:30,720
that we aim to do by setting up this

952
00:37:35,349 --> 00:37:32,480
study is is to acknowledge that there's

953
00:37:38,390 --> 00:37:35,359
been a lot of work done in the dod um

954
00:37:40,390 --> 00:37:38,400
realm about this already but see what we

955
00:37:42,310 --> 00:37:40,400
can contribute using the tools of

956
00:37:44,790 --> 00:37:42,320
science and so it's extremely important

957
00:37:47,510 --> 00:37:44,800
to us that this remain a fully

958
00:37:50,230 --> 00:37:47,520
transparent open and therefore

959
00:37:52,710 --> 00:37:50,240
unclassified study right we want the

960
00:37:54,390 --> 00:37:52,720
report to be published in full in its

961
00:37:56,630 --> 00:37:54,400
entirety we're going to be having public

962
00:37:59,430 --> 00:37:56,640
meetings about this too um and so that

963
00:38:01,589 --> 00:37:59,440

necessitates uh that it be unclassified

964

00:38:03,589 --> 00:38:01,599

and i think we've learned over the

965

00:38:05,910 --> 00:38:03,599

course of these 40 minutes yeah there's

966

00:38:07,510 --> 00:38:05,920

a great wealth of data out there

967

00:38:10,069 --> 00:38:07,520

that we can use already so i don't

968

00:38:15,190 --> 00:38:10,079

really see the need to to to partition

969

00:38:18,630 --> 00:38:17,030

thank you so much dan and did you

970

00:38:20,710 --> 00:38:18,640

address what you wanted to off of the

971

00:38:23,270 --> 00:38:20,720

last last person's question as well or

972

00:38:25,349 --> 00:38:23,280

did you want to add in

973

00:38:26,870 --> 00:38:25,359

i'll just quickly say that um

974

00:38:28,710 --> 00:38:26,880

one of the things you may have heard in

975

00:38:30,790 --> 00:38:28,720

the congressional hearings uh

976

00:38:34,310 --> 00:38:30,800

a few weeks ago was that there is a

977

00:38:37,510 --> 00:38:34,320

great deal of stigma associated with uap

978

00:38:40,150 --> 00:38:37,520

among our uh naval aviators and aviation

979

00:38:42,550 --> 00:38:40,160

communities um one of the things that we

980

00:38:44,710 --> 00:38:42,560

tangentially hope to do as part of this

981

00:38:46,870 --> 00:38:44,720

study simply by talking about it in the

982

00:38:49,510 --> 00:38:46,880

open is to help to remove some of the

983

00:38:51,670 --> 00:38:49,520

stigma uh associated with it and you

984

00:38:54,150 --> 00:38:51,680

know that will yield obviously uh

985

00:38:56,069 --> 00:38:54,160

increased access to to data more reports

986

00:38:57,750 --> 00:38:56,079

more sightings etc so

987

00:39:01,430 --> 00:38:57,760

that's another um thing that we're

988

00:39:03,270 --> 00:39:01,440

trying to accomplish with us

989

00:39:04,950 --> 00:39:03,280

great well thank you so much there was a

990

00:39:06,550 --> 00:39:04,960

lot of interest today and i am sorry we

991

00:39:09,270 --> 00:39:06,560

could not get to everybody's questions

992

00:39:10,630 --> 00:39:09,280

um but we had uh this was fit in quickly

993

00:39:11,910 --> 00:39:10,640

around people's schedules we were not