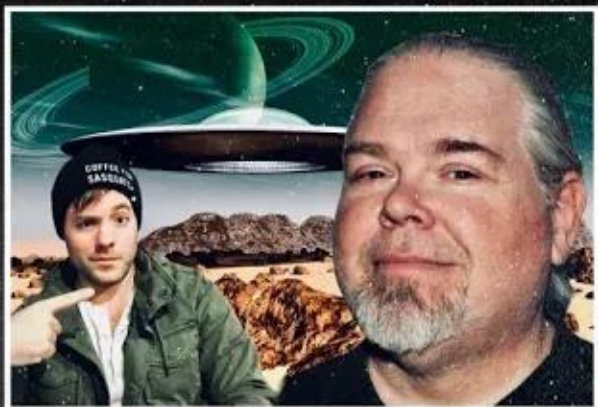


SOMEWHERE IN THE SKIES



FRONTIER TECHNOLOGY, FUTURE SCIENCE,
AND UFOS
WITH CHRISTOPHER PLAIN

1
00:00:00,740 --> 00:00:10,390

[Music]

2
00:00:14,980 --> 00:00:13,270

this is somewhere in the skies with ryan

3
00:00:34,470 --> 00:00:14,990

spread

4
00:00:38,790 --> 00:00:36,630

hey guys ryan sprague here from

5
00:00:41,110 --> 00:00:38,800

somewhere in the skies for a very

6
00:00:43,750 --> 00:00:41,120

special live stream for you tonight we

7
00:00:45,910 --> 00:00:43,760

have joining us in just a moment

8
00:00:47,750 --> 00:00:45,920

christopher plane the head science

9
00:00:50,310 --> 00:00:47,760

writer for the debrief we're going to

10
00:00:52,549 --> 00:00:50,320

talk all about all his latest articles

11
00:00:56,310 --> 00:00:52,559

what's to come at the debrief everything

12
00:00:58,950 --> 00:00:56,320

from space and tech and defense ufos

13
00:01:00,950 --> 00:00:58,960

even coffee and astrology but we will

14

00:01:03,029 --> 00:01:00,960

get to that shortly before we do any of

15

00:01:05,590 --> 00:01:03,039

that i've got a little talk shop here

16

00:01:06,950 --> 00:01:05,600

for you guys the super chat is open if

17

00:01:09,109 --> 00:01:06,960

you want to help out somewhere in the

18

00:01:12,070 --> 00:01:09,119

skies and get your comments highlighted

19

00:01:14,469 --> 00:01:12,080

your questions asked on the show right

20

00:01:17,190 --> 00:01:14,479

now live with christopher plane um be

21

00:01:19,670 --> 00:01:17,200

sure to do the super chat help us out

22

00:01:21,109 --> 00:01:19,680

every little bit counts show is always

23

00:01:23,030 --> 00:01:21,119

free to consume

24

00:01:26,630 --> 00:01:23,040

it's not free to create so any help is

25

00:01:28,469 --> 00:01:26,640

always appreciated um one other thing

26

00:01:30,230 --> 00:01:28,479

check out this new t-shirt i just got in

27

00:01:32,230 --> 00:01:30,240

the mail today from black triangle

28

00:01:34,630 --> 00:01:32,240

coffee who you guys know i have an

29

00:01:37,190 --> 00:01:34,640

intimate relationship with not in an

30

00:01:40,390 --> 00:01:37,200

appropriate way but in a business sense

31

00:01:41,990 --> 00:01:40,400

of the word um i have my own coffee my

32

00:01:45,789 --> 00:01:42,000

own coffee roast that's somewhere in the

33

00:01:47,749 --> 00:01:45,799

skies coffee roast which is available at

34

00:01:49,510 --> 00:01:47,759

blacktrianglecoffee.com so head on over

35

00:01:51,429 --> 00:01:49,520

there check out all their other amazing

36

00:01:53,830 --> 00:01:51,439

roasts they've got and check out the

37

00:01:56,310 --> 00:01:53,840

very dark and bold somewhere in the

38

00:01:58,149 --> 00:01:56,320

sky's roast right now so thank you to

39

00:02:00,469 --> 00:01:58,159

everyone at black triangle coffee for

40

00:02:03,910 --> 00:02:00,479

the free merch i love it if you can't

41

00:02:06,310 --> 00:02:03,920

tell the coffee cup is actually area 51

42

00:02:09,350 --> 00:02:06,320

which i thought was really cool design

43

00:02:12,070 --> 00:02:09,360

um so yeah go check them out get your uh

44

00:02:14,550 --> 00:02:12,080

morning and evening buzz with black

45

00:02:17,910 --> 00:02:14,560

triangle coffee but enough of that

46

00:02:20,229 --> 00:02:17,920

let's get to it um he needs no real

47

00:02:22,470 --> 00:02:20,239

intro he is one of the funniest guys

48

00:02:24,790 --> 00:02:22,480

i've ever met he's one of the smartest

49

00:02:27,589 --> 00:02:24,800

guys i've ever met and that is why he is

50

00:02:30,229 --> 00:02:27,599

the lead science writer over at the

51
00:02:31,509 --> 00:02:30,239
debrief so without further ado let's

52
00:02:33,110 --> 00:02:31,519
bring him in

53
00:02:35,030 --> 00:02:33,120
christopher plane

54
00:02:36,710 --> 00:02:35,040
welcome to the show my man

55
00:02:39,110 --> 00:02:36,720
what's going on my good man good to see

56
00:02:40,790 --> 00:02:39,120
you as always happy to be here i'd just

57
00:02:43,030 --> 00:02:40,800
like to point something out before we

58
00:02:45,830 --> 00:02:43,040
get started people if you are watching

59
00:02:47,990 --> 00:02:45,840
live ryan has made it clear that he

60
00:02:49,589 --> 00:02:48,000
doesn't live off of this the super chats

61
00:02:52,070 --> 00:02:49,599
those sort of money things money he

62
00:02:53,589 --> 00:02:52,080
makes off of his books he reinvested

63
00:02:55,750 --> 00:02:53,599

into going out and meeting other

64

00:02:57,589 --> 00:02:55,760

experiencers putting on these podcasts

65

00:02:59,990 --> 00:02:57,599

so you're not paying dudes rent you're

66

00:03:02,229 --> 00:03:00,000

paying for more content for yourself so

67

00:03:04,070 --> 00:03:02,239

uh don't be afraid to click on those

68

00:03:05,589 --> 00:03:04,080

things and i don't get a penny of it

69

00:03:07,990 --> 00:03:05,599

either so

70

00:03:10,309 --> 00:03:08,000

not yet we'll see yeah yeah your cuts

71

00:03:12,550 --> 00:03:10,319

noon man yeah yeah once we hit it big

72

00:03:13,990 --> 00:03:12,560

time but no i really appreciate that um

73

00:03:16,710 --> 00:03:14,000

let's say hello to some of our people in

74

00:03:20,070 --> 00:03:16,720

the chat we got christina gomez here

75

00:03:20,869 --> 00:03:20,080

terry dope knows joseph um

76

00:03:24,070 --> 00:03:20,879

more

77

00:03:25,830 --> 00:03:24,080

morkavi studios love it love it um grant

78

00:03:27,670 --> 00:03:25,840

is here so welcome to all you guys thank

79

00:03:30,229 --> 00:03:27,680

you for joining us again like we

80

00:03:32,949 --> 00:03:30,239

mentioned super chat is open um but no

81

00:03:35,509 --> 00:03:32,959

more of that talk chris let's get to the

82

00:03:36,789 --> 00:03:35,519

meat of things man um we we're we're

83

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

gonna talk about all your latest

84

00:03:42,309 --> 00:03:38,560

articles over at the debrief you have so

85

00:03:43,509 --> 00:03:42,319

many coming out per day it's

86

00:03:45,030 --> 00:03:43,519

i don't know how you do it man i

87

00:03:47,270 --> 00:03:45,040

honestly don't know how you do it but i

88

00:03:51,030 --> 00:03:47,280

love love love reading all of them but

89
00:03:53,990 --> 00:03:51,040
um look we are a ufo show so we might as

90
00:03:55,910 --> 00:03:54,000
well talk about the latest elephant in

91
00:03:57,830 --> 00:03:55,920
the room the news about this new

92
00:03:59,509 --> 00:03:57,840
pentagon group uh before we do that

93
00:04:01,110 --> 00:03:59,519
though chris have you uh were you able

94
00:04:03,190 --> 00:04:01,120
to catch the press briefing yesterday

95
00:04:05,270 --> 00:04:03,200
with john kirby about you know what i

96
00:04:07,350 --> 00:04:05,280
caught a clip of it on twitter so i

97
00:04:08,710 --> 00:04:07,360
would love if you would share it my man

98
00:04:10,949 --> 00:04:08,720
absolutely i'm going to go ahead and

99
00:04:13,030 --> 00:04:10,959
play that clip right now jazz is here

100
00:04:14,949 --> 00:04:13,040
chrissy newton welcome we got a bunch of

101

00:04:17,349 --> 00:04:14,959

the d yes i am

102

00:04:19,030 --> 00:04:17,359

i love it i love it it's a party well

103

00:04:22,469 --> 00:04:19,040

let's get the party started with john

104

00:04:24,230 --> 00:04:22,479

kirby the press secretary over there um

105

00:04:26,390 --> 00:04:24,240

excuse me not press

106

00:04:28,469 --> 00:04:26,400

pentagon spokesperson i hate getting

107

00:04:30,310 --> 00:04:28,479

titles wrong with people um so let's go

108

00:04:33,189 --> 00:04:30,320

ahead and play that chris and we'll uh

109

00:04:34,070 --> 00:04:33,199

we'll be back on the other side

110

00:04:35,350 --> 00:04:34,080

travis

111

00:04:37,030 --> 00:04:35,360

thanks john i wanted to ask you about

112

00:04:39,430 --> 00:04:37,040

this new uap

113

00:04:42,790 --> 00:04:39,440

office that was created by deputy

114

00:04:43,909 --> 00:04:42,800

secretary hicks and announced last week

115

00:04:46,150 --> 00:04:43,919

the

116

00:04:52,469 --> 00:04:46,160

aerial object identification and

117

00:04:56,629 --> 00:04:54,150

is there it's a mouthful was there any

118

00:04:58,310 --> 00:04:56,639

coordination with lawmakers on capitol

119

00:05:00,790 --> 00:04:58,320

bill they're proposing

120

00:05:04,150 --> 00:05:00,800

related legislation like representative

121

00:05:07,189 --> 00:05:04,160

gallego and senator gillibrand

122

00:05:10,070 --> 00:05:07,199

and secondly some former pentagon

123

00:05:12,629 --> 00:05:10,080

officials who had worked on this issue

124

00:05:14,550 --> 00:05:12,639

uh chris mellon and lou elizondo have

125

00:05:18,070 --> 00:05:14,560

said that this is an effort for the

126

00:05:19,909 --> 00:05:18,080

pentagon to be less transparent on uaps

127

00:05:21,189 --> 00:05:19,919

and i was just wondering if you had any

128

00:05:23,990 --> 00:05:21,199

response

129

00:05:25,749 --> 00:05:24,000

on the first one um i can't i can't

130

00:05:28,230 --> 00:05:25,759

speak to pending legislation obviously

131

00:05:30,070 --> 00:05:28,240

i'd refer to those members but uh but we

132

00:05:32,629 --> 00:05:30,080

absolutely kept members of congress

133

00:05:34,629 --> 00:05:32,639

informed uh as we uh

134

00:05:37,590 --> 00:05:34,639

as we fashioned this

135

00:05:39,670 --> 00:05:37,600

this group together and and announced it

136

00:05:41,670 --> 00:05:39,680

um and it is

137

00:05:44,550 --> 00:05:41,680

to your second question it is really

138

00:05:47,590 --> 00:05:44,560

designed to help us better coordinate

139

00:05:50,070 --> 00:05:47,600

the reporting processes um the actual

140

00:05:52,469 --> 00:05:50,080

reports themselves and the analysis of

141

00:05:55,029 --> 00:05:52,479

those reports so that um

142

00:05:56,629 --> 00:05:55,039

rather than uh

143

00:05:59,189 --> 00:05:56,639

getting them sort of piecemeal and ad

144

00:06:01,749 --> 00:05:59,199

hoc as we've been getting them from uh

145

00:06:03,909 --> 00:06:01,759

from the from the services um this is a

146

00:06:04,870 --> 00:06:03,919

way to coordinate the the input so that

147

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

we can

148

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

there's a common set of parameters for

149

00:06:11,029 --> 00:06:09,280

how to report them and to analyze them

150

00:06:12,070 --> 00:06:11,039

and then to assess what we've got and

151
00:06:13,670 --> 00:06:12,080
not all

152
00:06:15,189 --> 00:06:13,680
uh reports are going to manifest

153
00:06:17,189 --> 00:06:15,199
themselves in something that we consider

154
00:06:19,830 --> 00:06:17,199
a national security threat

155
00:06:21,029 --> 00:06:19,840
so this is a chance for us to to be a

156
00:06:23,029 --> 00:06:21,039
much more

157
00:06:26,230 --> 00:06:23,039
organized in the way we process these

158
00:06:28,790 --> 00:06:26,240
reports um and as we have we will

159
00:06:31,189 --> 00:06:28,800
certainly continue to be as transparent

160
00:06:33,110 --> 00:06:31,199
as we can about uh these phenomena and

161
00:06:34,390 --> 00:06:33,120
uh and and the impact that they may or

162
00:06:36,390 --> 00:06:34,400
may not be having

163
00:06:38,870 --> 00:06:36,400

on our ability to operate is there any

164

00:06:40,390 --> 00:06:38,880

specific commitment to release some data

165

00:06:42,070 --> 00:06:40,400

or information on

166

00:06:44,790 --> 00:06:42,080

these to the public at some point

167

00:06:46,550 --> 00:06:44,800

something beyond a briefing to congress

168

00:06:49,350 --> 00:06:46,560

yeah i mean i don't have a specific

169

00:06:50,870 --> 00:06:49,360

report to to announce today that on any

170

00:06:52,790 --> 00:06:50,880

kind of a frequent basis that we would

171

00:06:55,110 --> 00:06:52,800

do but i i can assure you that our

172

00:06:57,990 --> 00:06:55,120

intention is to be as transparent about

173

00:07:00,150 --> 00:06:58,000

uh this phenomena as as we can again try

174

00:07:03,110 --> 00:07:00,160

this understanding that um

175

00:07:04,629 --> 00:07:03,120

uh that uh that there'll be national

176

00:07:06,230 --> 00:07:04,639

security considerations that we have to

177

00:07:08,070 --> 00:07:06,240

keep in mind but we'll be as transparent

178

00:07:09,270 --> 00:07:08,080

as we can but not i don't want to leave

179

00:07:11,909 --> 00:07:09,280

you with the impression that there'll be

180

00:07:14,230 --> 00:07:11,919

sort of a regular drum beat of uh you

181

00:07:15,670 --> 00:07:14,240

know of some kind of report that uh that

182

00:07:18,870 --> 00:07:15,680

gets posted on the website you know

183

00:07:25,189 --> 00:07:22,710

all right man so again we're getting uap

184

00:07:27,029 --> 00:07:25,199

questions asked at pentagon press

185

00:07:29,350 --> 00:07:27,039

briefings this has been happening for

186

00:07:31,909 --> 00:07:29,360

about a year now so yeah while it's uh

187

00:07:34,390 --> 00:07:31,919

exciting it's kind of becoming a new

188

00:07:36,870 --> 00:07:34,400

norm which is really cool and you know

189

00:07:38,790 --> 00:07:36,880

kudos to that journalist um for doing

190

00:07:41,110 --> 00:07:38,800

his homework knowing melon knowing

191

00:07:42,150 --> 00:07:41,120

elizondo bringing up their names i was

192

00:07:44,309 --> 00:07:42,160

told

193

00:07:46,230 --> 00:07:44,319

um we only saw the reporter doing that

194

00:07:48,869 --> 00:07:46,240

clip but when he mentioned the names

195

00:07:52,469 --> 00:07:48,879

melon and elizondo apparently john kirby

196

00:07:54,150 --> 00:07:52,479

had the biggest smirk on his face

197

00:07:55,909 --> 00:07:54,160

apparently that's what i heard from

198

00:07:58,469 --> 00:07:55,919

another reporter that was in the room

199

00:08:01,029 --> 00:07:58,479

that day um the room where it happened

200

00:08:03,510 --> 00:08:01,039

the room went sorry that's my hamilton i

201
00:08:05,749 --> 00:08:03,520
can't imagine i can't imagine elizondo

202
00:08:07,909 --> 00:08:05,759
and melanie are super popular with these

203
00:08:09,430 --> 00:08:07,919
guys that all got forced into doing a

204
00:08:11,510 --> 00:08:09,440
bunch of work maybe they didn't want to

205
00:08:13,110 --> 00:08:11,520
do and having press conferences maybe

206
00:08:15,189 --> 00:08:13,120
they didn't want to do and talking about

207
00:08:17,029 --> 00:08:15,199
a topic they've successfully avoided

208
00:08:18,629 --> 00:08:17,039
talking about for a long time so i can't

209
00:08:20,309 --> 00:08:18,639
imagine one of those guys is super

210
00:08:23,270 --> 00:08:20,319
popular in the pentagon right now

211
00:08:25,589 --> 00:08:23,280
exactly well you know and kirby again

212
00:08:27,830 --> 00:08:25,599
kind of talking around the question as

213
00:08:29,110 --> 00:08:27,840

they always do um not making any

214

00:08:31,189 --> 00:08:29,120

promises that anything will be

215

00:08:35,269 --> 00:08:31,199

transparent with this let's get the name

216

00:08:37,670 --> 00:08:35,279

right aoi msg the uh airborne object

217

00:08:40,870 --> 00:08:37,680

identification and management

218

00:08:43,670 --> 00:08:40,880

synchronization group jesus man like

219

00:08:45,430 --> 00:08:43,680

what an acronym oh and if you're trying

220

00:08:47,269 --> 00:08:45,440

i mean like i don't know how intentional

221

00:08:49,590 --> 00:08:47,279

it is i'm not a conspiracy guy but if

222

00:08:52,310 --> 00:08:49,600

you're trying to like remove attention

223

00:08:54,870 --> 00:08:52,320

from something giving it all a super

224

00:08:58,630 --> 00:08:54,880

unpronounceable uncool name i mean a

225

00:08:59,910 --> 00:08:58,640

swap was easy a tip was easy galileo is

226

00:09:04,230 --> 00:08:59,920

memorable

227

00:09:05,829 --> 00:09:04,240

aoi msg i i can't i have no way to

228

00:09:07,990 --> 00:09:05,839

pronounce it to keep it on the zipline

229

00:09:09,990 --> 00:09:08,000

zone no way i know i feel like we're uh

230

00:09:11,030 --> 00:09:10,000

we're eating chinese food or something

231

00:09:14,630 --> 00:09:11,040

yeah right

232

00:09:16,630 --> 00:09:14,640

america otherwise new msg

233

00:09:18,230 --> 00:09:16,640

or medicine square garden yeah i guess

234

00:09:20,790 --> 00:09:18,240

yeah right yeah

235

00:09:22,630 --> 00:09:20,800

what do you think man now we have um you

236

00:09:25,110 --> 00:09:22,640

know currently we have this gillibrand

237

00:09:27,829 --> 00:09:25,120

amendment which i believe is being

238

00:09:30,470 --> 00:09:27,839

toiled over as we speak within uh

239

00:09:32,150 --> 00:09:30,480

congress with this authorization act um

240

00:09:34,230 --> 00:09:32,160

hopefully something will come of it

241

00:09:36,470 --> 00:09:34,240

because from the wording in that

242

00:09:38,710 --> 00:09:36,480

amendment it sounds amazing

243

00:09:41,750 --> 00:09:38,720

um apparently worded by christopher

244

00:09:44,150 --> 00:09:41,760

mellon himself and adopted by gillibrand

245

00:09:46,710 --> 00:09:44,160

many senators are backing her up on this

246

00:09:49,829 --> 00:09:46,720

thing and i know right now it's one of

247

00:09:52,230 --> 00:09:49,839

those ones being argued over in congress

248

00:09:54,150 --> 00:09:52,240

that's going to hold a lot of

249

00:09:56,310 --> 00:09:54,160

intelligence agencies and departments

250

00:09:58,150 --> 00:09:56,320

and military branches accountable for

251
00:09:59,430 --> 00:09:58,160
bringing uap information forward that

252
00:10:01,110 --> 00:09:59,440
they may have

253
00:10:02,150 --> 00:10:01,120
a lot of groups that haven't done so in

254
00:10:03,670 --> 00:10:02,160
the past

255
00:10:05,910 --> 00:10:03,680
kind of gave the

256
00:10:07,910 --> 00:10:05,920
uap task force the cold shoulder when

257
00:10:10,069 --> 00:10:07,920
they asked them for information but she

258
00:10:12,870 --> 00:10:10,079
said no nope you're not getting out of

259
00:10:15,430 --> 00:10:12,880
it easy this time uh but then all of a

260
00:10:18,310 --> 00:10:15,440
sudden out of nowhere right before

261
00:10:20,870 --> 00:10:18,320
thanksgiving the defense department

262
00:10:23,509 --> 00:10:20,880
drops this news um this is the successor

263
00:10:26,470 --> 00:10:23,519

to the uap task force so we kind of knew

264

00:10:29,190 --> 00:10:26,480

it was coming um in so much in so many

265

00:10:32,150 --> 00:10:29,200

words but um not like this and not in

266

00:10:34,310 --> 00:10:32,160

such a vague weird way like why why do

267

00:10:35,269 --> 00:10:34,320

you think they dropped this news right

268

00:10:37,829 --> 00:10:35,279

when we're in the middle of this

269

00:10:39,590 --> 00:10:37,839

gillibrand amendment thing you know the

270

00:10:40,790 --> 00:10:39,600

timing is a weird question there's no

271

00:10:42,550 --> 00:10:40,800

doubt about it i don't know that i have

272

00:10:45,590 --> 00:10:42,560

a good answer but here's what i picked

273

00:10:47,110 --> 00:10:45,600

up from that little clip you just played

274

00:10:49,750 --> 00:10:47,120

and it kind of goes with what you're

275

00:10:50,949 --> 00:10:49,760

saying uh he talked about

276

00:10:53,350 --> 00:10:50,959

the fact that they've been working on

277

00:10:56,310 --> 00:10:53,360

this for a while and i i think those of

278

00:10:58,230 --> 00:10:56,320

us that read the uap task force report

279

00:10:59,590 --> 00:10:58,240

got the impression that more work was

280

00:11:01,990 --> 00:10:59,600

going to come from that that we were

281

00:11:05,269 --> 00:11:02,000

gonna get some sort of follow-up there

282

00:11:07,430 --> 00:11:05,279

and when he's talking about it uh he

283

00:11:09,509 --> 00:11:07,440

mentioned that

284

00:11:10,870 --> 00:11:09,519

members of congress have have i don't

285

00:11:13,990 --> 00:11:10,880

know the wording he used but kind of

286

00:11:16,949 --> 00:11:14,000

been kept up to date or or kept apprised

287

00:11:19,030 --> 00:11:16,959

of this process and what's so weird

288

00:11:21,030 --> 00:11:19,040

about that i don't know which members of

289

00:11:22,550 --> 00:11:21,040

congress he's talking about but one of

290

00:11:25,030 --> 00:11:22,560

the co-signers on the gila brand

291

00:11:26,389 --> 00:11:25,040

amendment is marco rubio and he's one of

292

00:11:29,030 --> 00:11:26,399

the people that seems to have been at

293

00:11:31,350 --> 00:11:29,040

the spearhead of getting the uaptf to

294

00:11:33,350 --> 00:11:31,360

even happen in the first place and to

295

00:11:35,750 --> 00:11:33,360

get the issue studied by the pentagon in

296

00:11:39,030 --> 00:11:35,760

the first place so

297

00:11:40,150 --> 00:11:39,040

it seems weird that you would be

298

00:11:42,550 --> 00:11:40,160

keeping

299

00:11:44,710 --> 00:11:42,560

you know rubio and others are prized as

300

00:11:46,630 --> 00:11:44,720

you're making progress on

301
00:11:49,750 --> 00:11:46,640
towards this announcement towards this

302
00:11:52,629 --> 00:11:49,760
creation of the aoi msg

303
00:11:54,710 --> 00:11:52,639
and at the same point that senator is

304
00:11:56,870 --> 00:11:54,720
independently working with other members

305
00:11:59,110 --> 00:11:56,880
of congress to get a

306
00:12:00,150 --> 00:11:59,120
congressional oversight sort of office

307
00:12:02,470 --> 00:12:00,160
in place

308
00:12:04,710 --> 00:12:02,480
uh that's looking at the same thing

309
00:12:06,150 --> 00:12:04,720
so i found that really odd and

310
00:12:08,310 --> 00:12:06,160
interesting that he would say that it

311
00:12:10,949 --> 00:12:08,320
does make you know you know tim mcmillan

312
00:12:13,190 --> 00:12:10,959
who i work for over at the debrief and i

313
00:12:14,870 --> 00:12:13,200

don't want to breach any confidences but

314

00:12:17,110 --> 00:12:14,880

one of the comments he made about all of

315

00:12:19,990 --> 00:12:17,120

this recently in our group chat at work

316

00:12:21,750 --> 00:12:20,000

is that uh people don't uh especially in

317

00:12:24,550 --> 00:12:21,760

government the right hand doesn't always

318

00:12:27,190 --> 00:12:24,560

know what the left hand is doing so

319

00:12:28,190 --> 00:12:27,200

i think when in doubt when choosing

320

00:12:31,190 --> 00:12:28,200

between

321

00:12:33,910 --> 00:12:31,200

conspiratorial thinking and disorganized

322

00:12:35,750 --> 00:12:33,920

procedure i usually tend towards people

323

00:12:37,350 --> 00:12:35,760

just being disorganized and not having

324

00:12:40,550 --> 00:12:37,360

their act together

325

00:12:41,750 --> 00:12:40,560

that's what it seems like yeah yeah i do

326

00:12:43,430 --> 00:12:41,760

think

327

00:12:46,150 --> 00:12:43,440

here's what i would i would tell

328

00:12:49,350 --> 00:12:46,160

everyone the place we continue to put

329

00:12:51,509 --> 00:12:49,360

our energy and support is the amendment

330

00:12:53,430 --> 00:12:51,519

and this is why and i'm not against this

331

00:12:54,550 --> 00:12:53,440

pentagon program i think it's a great

332

00:12:56,230 --> 00:12:54,560

idea

333

00:12:58,310 --> 00:12:56,240

if they want to pursue it and follow up

334

00:13:01,430 --> 00:12:58,320

on the work they were assigned to do i

335

00:13:03,910 --> 00:13:01,440

mean that uaptf report more or less said

336

00:13:05,590 --> 00:13:03,920

more information more work more budgets

337

00:13:07,990 --> 00:13:05,600

you know more to do

338

00:13:10,470 --> 00:13:08,000

so having them follow up on that is fine

339

00:13:12,310 --> 00:13:10,480

the way i see this is two competing

340

00:13:13,190 --> 00:13:12,320

opportunities here

341

00:13:15,430 --> 00:13:13,200

one

342

00:13:18,389 --> 00:13:15,440

seems very american

343

00:13:20,470 --> 00:13:18,399

one is run by congress who are the

344

00:13:22,389 --> 00:13:20,480

representatives of the people

345

00:13:24,629 --> 00:13:22,399

that offers congressional oversight

346

00:13:25,750 --> 00:13:24,639

which is effectively the oversight of

347

00:13:28,710 --> 00:13:25,760

the people

348

00:13:30,310 --> 00:13:28,720

and by creating that and by telling us

349

00:13:32,949 --> 00:13:30,320

there will be regular reports and

350

00:13:34,949 --> 00:13:32,959

regular analysis we're all grown-ups we

351

00:13:37,750 --> 00:13:34,959

can take a report from that group that

352

00:13:40,310 --> 00:13:37,760

says okay we we blacked out a few things

353

00:13:42,069 --> 00:13:40,320

here for national security or a couple

354

00:13:44,470 --> 00:13:42,079

of these cases we're not going to talk

355

00:13:45,910 --> 00:13:44,480

about that were i unidentified before

356

00:13:47,829 --> 00:13:45,920

because you know

357

00:13:50,230 --> 00:13:47,839

whatever top security reasons we're

358

00:13:52,710 --> 00:13:50,240

adults we can handle them what we're not

359

00:13:54,150 --> 00:13:52,720

gonna sit tight for is the pentagon

360

00:13:56,710 --> 00:13:54,160

swooping in

361

00:13:58,550 --> 00:13:56,720

taking the whole thing over and sending

362

00:13:59,430 --> 00:13:58,560

us back into the chamber of silence

363

00:14:02,790 --> 00:13:59,440

because

364

00:14:05,509 --> 00:14:02,800

that reeks of not just cover-up but of

365

00:14:07,750 --> 00:14:05,519

many possible things going on every

366

00:14:10,710 --> 00:14:07,760

conspiracy theory from

367

00:14:13,030 --> 00:14:10,720

uh the us air force has a secret project

368

00:14:15,189 --> 00:14:13,040

to some military contractor like the

369

00:14:18,230 --> 00:14:15,199

tower lockheed martin has some secret

370

00:14:21,030 --> 00:14:18,240

craft too we're in collusion with aliens

371

00:14:22,870 --> 00:14:21,040

you name the conspiracy theory you slam

372

00:14:24,870 --> 00:14:22,880

that cone of silence back down on this

373

00:14:26,150 --> 00:14:24,880

thing uh that's where we're going and i

374

00:14:27,990 --> 00:14:26,160

think it's gonna get really

375

00:14:29,590 --> 00:14:28,000

uncomfortable for people in the pentagon

376

00:14:31,350 --> 00:14:29,600

because i don't see

377

00:14:33,350 --> 00:14:31,360

this backing off this pressure's only

378

00:14:34,629 --> 00:14:33,360

been going one direction

379

00:14:36,790 --> 00:14:34,639

so

380

00:14:39,030 --> 00:14:36,800

i i think they've put themselves in an

381

00:14:41,350 --> 00:14:39,040

interesting situation but i can tell you

382

00:14:44,069 --> 00:14:41,360

as an outsider uh

383

00:14:47,189 --> 00:14:44,079

i highly prefer the one from congress

384

00:14:49,030 --> 00:14:47,199

that offers reports and accountability

385

00:14:51,110 --> 00:14:49,040

and the ability to vote the people out

386

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

of congress that aren't doing the job we

387

00:14:54,949 --> 00:14:53,279

like and put the people in there doing

388

00:14:57,750 --> 00:14:54,959

the job we want that's that feels

389

00:14:59,509 --> 00:14:57,760

american to me uh the military's

390

00:15:02,069 --> 00:14:59,519

swooping in and saying that we're gonna

391

00:15:04,310 --> 00:15:02,079

take over this whole investigation we're

392

00:15:06,949 --> 00:15:04,320

gonna keep it all in house we may or may

393

00:15:09,990 --> 00:15:06,959

not share stuff with you guys we may or

394

00:15:12,150 --> 00:15:10,000

may not but uh we're taking over uh

395

00:15:15,189 --> 00:15:12,160

that's very draconian and very scary and

396

00:15:17,509 --> 00:15:15,199

smells like the last 70 plus years to me

397

00:15:19,670 --> 00:15:17,519

exactly man it's just echoes of

398

00:15:21,910 --> 00:15:19,680

everything we've seen and heard before

399

00:15:24,150 --> 00:15:21,920

chris says ryan and chris do you think

400

00:15:27,350 --> 00:15:24,160

it's gonna get worse um

401
00:15:29,670 --> 00:15:27,360
i don't know i i mean i when i first

402
00:15:32,389 --> 00:15:29,680
heard about this thing this new

403
00:15:34,310 --> 00:15:32,399
new group with the ridiculous acronym i

404
00:15:36,470 --> 00:15:34,320
was super pissed and i'm like are you

405
00:15:38,150 --> 00:15:36,480
serious like really you're gonna do this

406
00:15:39,829 --> 00:15:38,160
right now and of course it's what

407
00:15:42,230 --> 00:15:39,839
mainstream media picked up no one picked

408
00:15:45,030 --> 00:15:42,240
up on the gillibrand amendment barely

409
00:15:47,509 --> 00:15:45,040
maybe for like a day but then you know i

410
00:15:49,910 --> 00:15:47,519
mean what is what happens i go home for

411
00:15:52,389 --> 00:15:49,920
thanksgiving i've got uh my dad being

412
00:15:55,670 --> 00:15:52,399
like did you see this and showing me the

413
00:15:57,670 --> 00:15:55,680

cnn article about this dumb msg thing

414

00:15:59,509 --> 00:15:57,680

and i'm just like oh no that's not the

415

00:16:01,910 --> 00:15:59,519

real story here that's not the real

416

00:16:03,670 --> 00:16:01,920

story ryan you know you work over with

417

00:16:05,509 --> 00:16:03,680

me at the debrief a little peek inside

418

00:16:08,069 --> 00:16:05,519

the news business since i'm still pretty

419

00:16:10,470 --> 00:16:08,079

new to it but in a lot of ways places

420

00:16:13,590 --> 00:16:10,480

like cnn and these other places they

421

00:16:16,230 --> 00:16:13,600

reported so heavily on the ua ptf coming

422

00:16:18,949 --> 00:16:16,240

out at the end of june that in many ways

423

00:16:20,949 --> 00:16:18,959

this is a natural thing to do in news is

424

00:16:22,949 --> 00:16:20,959

when the gila brand amendment came out

425

00:16:25,030 --> 00:16:22,959

it was kind of collaterally related but

426

00:16:26,550 --> 00:16:25,040

this was direct this is the pentagon the

427

00:16:29,350 --> 00:16:26,560

same people that issued that first

428

00:16:32,870 --> 00:16:29,360

report are coming out saying here's the

429

00:16:34,949 --> 00:16:32,880

action steps we promised in that report

430

00:16:37,269 --> 00:16:34,959

so it's a natural

431

00:16:39,749 --> 00:16:37,279

news thing to cover it as a follow-up

432

00:16:42,710 --> 00:16:39,759

the timing i agree is definitely suspect

433

00:16:44,150 --> 00:16:42,720

it's a little weird uh it feels like uh

434

00:16:46,150 --> 00:16:44,160

i think a lot of us would have liked to

435

00:16:47,749 --> 00:16:46,160

seen the amendment pass

436

00:16:49,590 --> 00:16:47,759

and then if the pentagon jumped up with

437

00:16:50,470 --> 00:16:49,600

this a week or two later and said hey by

438

00:16:52,150 --> 00:16:50,480

the way

439

00:16:53,749 --> 00:16:52,160

we're still following up on the work we

440

00:16:55,430 --> 00:16:53,759

were assigned to do and the work we

441

00:16:57,590 --> 00:16:55,440

promised and we're putting the whole

442

00:16:59,430 --> 00:16:57,600

task force on it we've given it a stupid

443

00:17:01,030 --> 00:16:59,440

name but we're gonna do it

444

00:17:03,509 --> 00:17:01,040

i think we would all feel like all right

445

00:17:05,429 --> 00:17:03,519

you guys are on to something here but uh

446

00:17:07,909 --> 00:17:05,439

but yeah coming out

447

00:17:09,990 --> 00:17:07,919

as congress is fighting to get this

448

00:17:12,549 --> 00:17:10,000

amendment through and again an amendment

449

00:17:14,870 --> 00:17:12,559

that offers public reports and

450

00:17:17,990 --> 00:17:14,880

mechanisms of accountability for the

451
00:17:20,630 --> 00:17:18,000
american public uh yeah it's definitely

452
00:17:22,390 --> 00:17:20,640
not a not a good timing that's for sure

453
00:17:24,870 --> 00:17:22,400
not only that chris you got this whole

454
00:17:27,510 --> 00:17:24,880
idea of trans medium craft as well in

455
00:17:30,710 --> 00:17:27,520
the gila brand amendment which was

456
00:17:33,270 --> 00:17:30,720
uh in my opinion historic for a congress

457
00:17:35,510 --> 00:17:33,280
person to say we want to look at

458
00:17:38,390 --> 00:17:35,520
transmedium craft we want to look at

459
00:17:40,230 --> 00:17:38,400
crash retrievals i mean those things

460
00:17:42,549 --> 00:17:40,240
were blowing my mind and you're not

461
00:17:44,630 --> 00:17:42,559
hearing any of that with this pentagon

462
00:17:46,710 --> 00:17:44,640
thing they're just again talking about

463
00:17:49,350 --> 00:17:46,720

national security threats with aerial

464

00:17:51,990 --> 00:17:49,360

vehicles blah blah china russia

465

00:17:54,710 --> 00:17:52,000

drones and it's so boring man but then

466

00:17:56,549 --> 00:17:54,720

we've got this ambitious thing happening

467

00:17:58,390 --> 00:17:56,559

on the side that just

468

00:18:01,350 --> 00:17:58,400

i don't know i'm worried you know the

469

00:18:03,909 --> 00:18:01,360

more i i speak to jazz shaw who has

470

00:18:07,430 --> 00:18:03,919

covered this immensely and also tim

471

00:18:08,390 --> 00:18:07,440

mcmillan at the debrief immensely um

472

00:18:10,549 --> 00:18:08,400

i um

473

00:18:13,430 --> 00:18:10,559

i just hope it doesn't lose steam and i

474

00:18:15,830 --> 00:18:13,440

hope it passes um i'm waiting minute by

475

00:18:18,310 --> 00:18:15,840

minute to hear what's going on if jaz

476

00:18:21,190 --> 00:18:18,320

has any updates for for us let us know

477

00:18:23,190 --> 00:18:21,200

my man um like i wouldn't you know ryan

478

00:18:25,830 --> 00:18:23,200

i wouldn't be surprised on this and keep

479

00:18:29,669 --> 00:18:25,840

in mind the military's job is to do what

480

00:18:31,909 --> 00:18:29,679

they're doing right look for threats so

481

00:18:34,070 --> 00:18:31,919

i i wouldn't be surprised if the

482

00:18:36,070 --> 00:18:34,080

military would love to be done with this

483

00:18:38,310 --> 00:18:36,080

right they would love to do their own

484

00:18:39,669 --> 00:18:38,320

internal study and come out and say

485

00:18:40,549 --> 00:18:39,679

either

486

00:18:42,230 --> 00:18:40,559

okay

487

00:18:43,990 --> 00:18:42,240

china or russia or somebody has

488

00:18:47,029 --> 00:18:44,000

leapfrogged us and we're seeing some

489

00:18:49,510 --> 00:18:47,039

scary drones that can go mach 15 and

490

00:18:50,470 --> 00:18:49,520

have no propulsion or these other things

491

00:18:52,230 --> 00:18:50,480

or

492

00:18:55,270 --> 00:18:52,240

come back and say

493

00:18:57,430 --> 00:18:55,280

kind of what the uaptf said which is

494

00:18:59,110 --> 00:18:57,440

there's stuff out there we're not really

495

00:19:01,430 --> 00:18:59,120

sure if it's a threat

496

00:19:03,430 --> 00:19:01,440

so that makes it not our problem and i

497

00:19:05,990 --> 00:19:03,440

think the military would love to do that

498

00:19:08,070 --> 00:19:06,000

i think they would love to be done

499

00:19:09,510 --> 00:19:08,080

looking at this issue because the truth

500

00:19:11,510 --> 00:19:09,520

of the matter is

501
00:19:13,350 --> 00:19:11,520
for most people that have been following

502
00:19:14,789 --> 00:19:13,360
this they know that the military has

503
00:19:17,669 --> 00:19:14,799
been dealing with this since the late

504
00:19:20,310 --> 00:19:17,679
1940s i mean i tell people all the time

505
00:19:25,750 --> 00:19:20,320
go watch the documentary ufo it's a it's

506
00:19:27,350 --> 00:19:25,760
a drama dramatized documentary from 1956

507
00:19:29,669 --> 00:19:27,360
and what they did is looked at the

508
00:19:32,150 --> 00:19:29,679
problem that they were having you know

509
00:19:34,789 --> 00:19:32,160
and they were analyzing in blue book and

510
00:19:37,669 --> 00:19:34,799
that whole movie is really

511
00:19:40,470 --> 00:19:37,679
the military seeing stuff flying around

512
00:19:43,830 --> 00:19:40,480
it has maneuvers we can't replicate

513
00:19:45,990 --> 00:19:43,840

there have observables and the end of

514

00:19:49,590 --> 00:19:46,000

that the documentarian who made that

515

00:19:51,350 --> 00:19:49,600

pretty much makes a speech that says

516

00:19:53,830 --> 00:19:51,360

if it's not ours

517

00:19:55,669 --> 00:19:53,840

and it's not russia's

518

00:19:56,549 --> 00:19:55,679

what's left

519

00:19:58,789 --> 00:19:56,559

right

520

00:20:00,310 --> 00:19:58,799

and i still think that the military

521

00:20:04,149 --> 00:20:00,320

would love to get to that point where

522

00:20:05,990 --> 00:20:04,159

they can say we have ruled out a threat

523

00:20:06,950 --> 00:20:06,000

we know it's not russia we know it's not

524

00:20:09,270 --> 00:20:06,960

china

525

00:20:10,789 --> 00:20:09,280

and if it is our own secret project

526
00:20:12,390 --> 00:20:10,799
we're not going to tell you because it's

527
00:20:13,430 --> 00:20:12,400
that's not a threat

528
00:20:18,390 --> 00:20:13,440
and

529
00:20:19,830 --> 00:20:18,400
haven't blown us up in the 70 years or 7

530
00:20:22,149 --> 00:20:19,840
000 years or whatever it is they've been

531
00:20:24,310 --> 00:20:22,159
visiting if it is of them

532
00:20:26,070 --> 00:20:24,320
uh so that's not our problem you guys

533
00:20:27,990 --> 00:20:26,080
scientists go figure it out congress you

534
00:20:30,390 --> 00:20:28,000
go figure it out not our problem

535
00:20:32,950 --> 00:20:30,400
so that's where i'm hopeful here i'm

536
00:20:35,430 --> 00:20:32,960
hopeful that the military will do their

537
00:20:38,149 --> 00:20:35,440
job and either rule in or rule out

538
00:20:39,990 --> 00:20:38,159

chinese russian or other foreign drones

539

00:20:41,590 --> 00:20:40,000

and if they come to the conclusion that

540

00:20:43,669 --> 00:20:41,600

it's not that

541

00:20:45,190 --> 00:20:43,679

and that it's not ours or at least not

542

00:20:47,110 --> 00:20:45,200

ours they're willing to report on and

543

00:20:48,870 --> 00:20:47,120

they wash their hands at that point and

544

00:20:50,870 --> 00:20:48,880

say that's all we'll give you we're the

545

00:20:52,950 --> 00:20:50,880

military we don't know it's for

546

00:20:54,870 --> 00:20:52,960

scientists and nasa and other people to

547

00:20:56,390 --> 00:20:54,880

figure out well what do you know we got

548

00:20:58,789 --> 00:20:56,400

scientists in nasa looking at the

549

00:21:00,310 --> 00:20:58,799

problem and we have potentially congress

550

00:21:01,990 --> 00:21:00,320

looking at it so

551

00:21:04,390 --> 00:21:02,000

i wouldn't be surprised to see us go

552

00:21:06,070 --> 00:21:04,400

along two tracks for a while and then

553

00:21:08,070 --> 00:21:06,080

have the military say all right we're

554

00:21:09,990 --> 00:21:08,080

out of this problem the flip side of

555

00:21:11,590 --> 00:21:10,000

that of course is if the military has

556

00:21:13,990 --> 00:21:11,600

all these

557

00:21:15,830 --> 00:21:14,000

videos and photos and things that guys

558

00:21:17,029 --> 00:21:15,840

like elizondo and reid and others have

559

00:21:18,630 --> 00:21:17,039

pointed to

560

00:21:20,390 --> 00:21:18,640

at some point they're gonna have to deal

561

00:21:22,230 --> 00:21:20,400

with that that's an information bubble

562

00:21:24,870 --> 00:21:22,240

we know it exists too many people have

563

00:21:26,630 --> 00:21:24,880

pointed it out so uh that is a problem

564

00:21:28,950 --> 00:21:26,640

that they have for sure

565

00:21:30,470 --> 00:21:28,960

absolutely man and like you you

566

00:21:32,390 --> 00:21:30,480

mentioned science which is what we're

567

00:21:34,950 --> 00:21:32,400

going to talk about a lot tonight which

568

00:21:36,230 --> 00:21:34,960

i'm really excited about but um we have

569

00:21:38,789 --> 00:21:36,240

scientists

570

00:21:40,710 --> 00:21:38,799

looking at uap now more serious than

571

00:21:43,830 --> 00:21:40,720

ever we have the galileo project i know

572

00:21:45,990 --> 00:21:43,840

you you have covered this um over at the

573

00:21:49,430 --> 00:21:46,000

debrief and um

574

00:21:53,110 --> 00:21:49,440

and and we have you know a bunch of

575

00:21:54,950 --> 00:21:53,120

people scientific coalitions for the scu

576

00:21:57,190 --> 00:21:54,960

yeah yes

577

00:21:59,350 --> 00:21:57,200

so that that's what excites me most man

578

00:22:02,070 --> 00:21:59,360

again it's not about the military and

579

00:22:03,750 --> 00:22:02,080

the threat angle for me it's it's

580

00:22:06,630 --> 00:22:03,760

actually empowering a lot of these

581

00:22:09,190 --> 00:22:06,640

scientists to now be like huh there

582

00:22:11,750 --> 00:22:09,200

might be something to this it's not as

583

00:22:13,909 --> 00:22:11,760

crazy to talk about um maybe we could

584

00:22:15,990 --> 00:22:13,919

get some funding to look into it more

585

00:22:18,549 --> 00:22:16,000

right if you're somebody else thinks

586

00:22:21,190 --> 00:22:18,559

it's not a threat if you're somebody who

587

00:22:23,669 --> 00:22:21,200

thinks it's not russia and it's not

588

00:22:27,270 --> 00:22:23,679

china and or a foreign adversary and you

589

00:22:29,750 --> 00:22:27,280

think it is potentially a non-human

590

00:22:32,390 --> 00:22:29,760

technological intelligence uh the more

591

00:22:33,350 --> 00:22:32,400

people looking at it the better so

592

00:22:36,310 --> 00:22:33,360

yes

593

00:22:38,070 --> 00:22:36,320

i still feel like there's this big box

594

00:22:40,630 --> 00:22:38,080

of goodies the military isn't sharing

595

00:22:42,950 --> 00:22:40,640

with everybody but i do feel like if we

596

00:22:44,789 --> 00:22:42,960

go down the path of the gila brand

597

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

amendment if we continue down the path

598

00:22:49,669 --> 00:22:47,520

of nasa and these other organizations

599

00:22:52,950 --> 00:22:49,679

somebody will get to evaluate that

600

00:22:56,149 --> 00:22:52,960

information at some point we will all

601
00:22:58,549 --> 00:22:56,159
get our hands on it that's my belief

602
00:23:00,310 --> 00:22:58,559
i hope so man i'm with you and i i

603
00:23:03,110 --> 00:23:00,320
believe strongly that it's going to be a

604
00:23:05,750 --> 00:23:03,120
crazy 2022 and probably even a crazier

605
00:23:07,669 --> 00:23:05,760
2023 but um we're getting ahead of

606
00:23:08,470 --> 00:23:07,679
ourselves i want to rewind if you don't

607
00:23:11,350 --> 00:23:08,480
mind

608
00:23:13,270 --> 00:23:11,360
um let's go back to the beginning

609
00:23:16,149 --> 00:23:13,280
the very beginning of christopher

610
00:23:19,510 --> 00:23:16,159
plane's existence the glimmer in your

611
00:23:22,310 --> 00:23:19,520
mother's eye um how did you first get

612
00:23:24,149 --> 00:23:22,320
interested in ufos what brought you into

613
00:23:28,070 --> 00:23:24,159

this crazy community that we call

614

00:23:29,990 --> 00:23:28,080

ufology so uh i've talked previously

615

00:23:31,990 --> 00:23:30,000

about my own

616

00:23:34,630 --> 00:23:32,000

if you want to call it uh experience or

617

00:23:37,669 --> 00:23:34,640

whatever it really just was i was seven

618

00:23:38,630 --> 00:23:37,679

years old it was the spring of 77

619

00:23:40,789 --> 00:23:38,640

and

620

00:23:43,430 --> 00:23:40,799

i saw what could be described as the

621

00:23:45,669 --> 00:23:43,440

exact triangle from the photo that tim

622

00:23:47,590 --> 00:23:45,679

mcmillan that that artist rendering like

623

00:23:49,669 --> 00:23:47,600

the three lights in the corner

624

00:23:51,750 --> 00:23:49,679

going really i really really high up in

625

00:23:53,590 --> 00:23:51,760

the sky like airplane height and just

626

00:23:55,590 --> 00:23:53,600

cruising along the sky and there was

627

00:23:56,950 --> 00:23:55,600

someone else there a couple other people

628

00:23:58,950 --> 00:23:56,960

there and i've confirmed with at least

629

00:24:00,789 --> 00:23:58,960

one person that it's not some made up

630

00:24:03,430 --> 00:24:00,799

childhood memory something i really saw

631

00:24:05,269 --> 00:24:03,440

but i didn't really ever have

632

00:24:07,269 --> 00:24:05,279

perspective you know at that point in

633

00:24:09,750 --> 00:24:07,279

time it was right before star wars and

634

00:24:12,230 --> 00:24:09,760

close encounters of the first uh third

635

00:24:14,390 --> 00:24:12,240

kind both came out that year so although

636

00:24:16,789 --> 00:24:14,400

there was science fiction things about

637

00:24:19,110 --> 00:24:16,799

aliens and people from other worlds from

638

00:24:21,269 --> 00:24:19,120

the 50s or whatever there wasn't really

639

00:24:23,350 --> 00:24:21,279

a ufo

640

00:24:25,190 --> 00:24:23,360

culture at least that i was aware of at

641

00:24:27,669 --> 00:24:25,200

age seven

642

00:24:29,909 --> 00:24:27,679

in that fall after i just turned eight

643

00:24:32,149 --> 00:24:29,919

years old and i've mentioned this before

644

00:24:34,630 --> 00:24:32,159

a television network television show

645

00:24:36,710 --> 00:24:34,640

came on called in search of

646

00:24:38,630 --> 00:24:36,720

and what in search of was the easiest

647

00:24:41,510 --> 00:24:38,640

way to describe it is it was the

648

00:24:44,149 --> 00:24:41,520

predecessor to ancient aliens it was

649

00:24:46,549 --> 00:24:44,159

hosted by leonard nimoy who played spock

650

00:24:50,310 --> 00:24:46,559

in the original star trek series

651
00:24:53,750 --> 00:24:50,320
and they would look at ufos loch ness

652
00:24:55,750 --> 00:24:53,760
monster ghosts bermuda triangle

653
00:24:58,630 --> 00:24:55,760
pyramids you name it stuff that all

654
00:25:01,110 --> 00:24:58,640
falls under that kind of ancient aliens

655
00:25:03,750 --> 00:25:01,120
uh you know mystery scientific mystery

656
00:25:06,390 --> 00:25:03,760
sort of uh phenomenon but there's no

657
00:25:08,789 --> 00:25:06,400
doubt that the bulk the the topic they

658
00:25:11,350 --> 00:25:08,799
covered the most was ufos

659
00:25:12,870 --> 00:25:11,360
and they covered it right there in that

660
00:25:15,190 --> 00:25:12,880
first season

661
00:25:16,789 --> 00:25:15,200
and i saw it with my father and we were

662
00:25:18,710 --> 00:25:16,799
watching it together

663
00:25:21,269 --> 00:25:18,720

and it just became something we were

664

00:25:22,950 --> 00:25:21,279

both interested in we both went you know

665

00:25:25,110 --> 00:25:22,960

it seemed

666

00:25:26,789 --> 00:25:25,120

viable that

667

00:25:29,269 --> 00:25:26,799

beings from another planet might be here

668

00:25:31,110 --> 00:25:29,279

and it also seemed viable that secret

669

00:25:33,029 --> 00:25:31,120

technology was being developed some my

670

00:25:34,070 --> 00:25:33,039

father impressed upon me at a very early

671

00:25:37,909 --> 00:25:34,080

age

672

00:25:41,029 --> 00:25:37,919

in 1980 in that same series

673

00:25:43,269 --> 00:25:41,039

uh jesse marcel came on

674

00:25:46,310 --> 00:25:43,279

and he gave that interview clip that we

675

00:25:49,990 --> 00:25:46,320

see a lot those interview segments where

676
00:25:52,310 --> 00:25:50,000
he went out to uh um corona ranch and he

677
00:25:54,310 --> 00:25:52,320
walked around where he had found the

678
00:25:55,590 --> 00:25:54,320
crash debris outside of roswell new

679
00:25:56,710 --> 00:25:55,600
mexico

680
00:25:59,190 --> 00:25:56,720
and

681
00:26:02,390 --> 00:25:59,200
it was so compelling to hear him talk

682
00:26:06,149 --> 00:26:02,400
about trying to burn it trying to cut it

683
00:26:08,710 --> 00:26:06,159
the memory metal and his firm belief

684
00:26:11,430 --> 00:26:08,720
that it was not a crashed balloon or

685
00:26:13,830 --> 00:26:11,440
human craft and that stuck with me and

686
00:26:15,990 --> 00:26:13,840
that added that fuel on top of

687
00:26:18,549 --> 00:26:16,000
everything else and i tell people all

688
00:26:20,710 --> 00:26:18,559

the time in a pre-internet era i lived

689

00:26:22,870 --> 00:26:20,720

in the bookstore i lived in the library

690

00:26:24,950 --> 00:26:22,880

in the 80s as well as in the 90s but

691

00:26:26,870 --> 00:26:24,960

particularly in the 80s

692

00:26:29,430 --> 00:26:26,880

getting everything i could gathering

693

00:26:31,909 --> 00:26:29,440

every john mack book and bud hopkins on

694

00:26:34,470 --> 00:26:31,919

abductions gathering every

695

00:26:36,870 --> 00:26:34,480

j allen heineck book or stanton

696

00:26:39,669 --> 00:26:36,880

freeman's work any of that stuff i could

697

00:26:42,950 --> 00:26:39,679

get because there wasn't really uh there

698

00:26:45,110 --> 00:26:42,960

wasn't podcasts there wasn't ufo

699

00:26:47,190 --> 00:26:45,120

channels there was no ryan sprague

700

00:26:48,950 --> 00:26:47,200

somewhere in the skies out there talking

701
00:26:51,269 --> 00:26:48,960
about it bringing on

702
00:26:53,350 --> 00:26:51,279
top researchers and people to talk about

703
00:26:55,430 --> 00:26:53,360
it you really have to kind of piece this

704
00:26:58,230 --> 00:26:55,440
story together on your own and it was a

705
00:27:00,549 --> 00:26:58,240
pretty lonely exploit i wasn't i wasn't

706
00:27:02,230 --> 00:27:00,559
a lonely kid but when it came to my ufo

707
00:27:03,110 --> 00:27:02,240
interest i could discuss it with my

708
00:27:04,549 --> 00:27:03,120
father

709
00:27:07,110 --> 00:27:04,559
he would definitely

710
00:27:08,149 --> 00:27:07,120
help me get books and entertain the the

711
00:27:09,669 --> 00:27:08,159
interest

712
00:27:12,070 --> 00:27:09,679
but uh

713
00:27:13,590 --> 00:27:12,080

yeah it really wasn't until

714

00:27:15,669 --> 00:27:13,600

you know

715

00:27:17,510 --> 00:27:15,679

last couple year really last summer i

716

00:27:19,430 --> 00:27:17,520

tell people all the time i kind of wrote

717

00:27:23,110 --> 00:27:19,440

this thing all the way through the the

718

00:27:25,750 --> 00:27:23,120

um press club event in 2001

719

00:27:28,549 --> 00:27:25,760

uh the dr greer press club event so for

720

00:27:30,630 --> 00:27:28,559

a good 20 plus years i followed it

721

00:27:32,149 --> 00:27:30,640

really clear uh close and when that

722

00:27:34,789 --> 00:27:32,159

event kind of

723

00:27:36,710 --> 00:27:34,799

brought all these great witnesses pilots

724

00:27:39,669 --> 00:27:36,720

and and uh air traffic controllers

725

00:27:41,909 --> 00:27:39,679

military witnesses police officers to

726

00:27:44,950 --> 00:27:41,919

one place and they laid out

727

00:27:48,470 --> 00:27:44,960

to that point the most compelling case

728

00:27:51,110 --> 00:27:48,480

for a real phenomenon a real situation

729

00:27:54,070 --> 00:27:51,120

crafts displaying the observables the

730

00:27:57,909 --> 00:27:54,080

five six observables whichever you like

731

00:28:00,789 --> 00:27:57,919

and uh that being a real thing as a

732

00:28:04,149 --> 00:28:00,799

matter of fact even back in the 70s

733

00:28:06,310 --> 00:28:04,159

when a george lucas made i'm sorry

734

00:28:09,510 --> 00:28:06,320

steven spielberg made a close encounters

735

00:28:12,149 --> 00:28:09,520

of the first uh third kind

736

00:28:13,430 --> 00:28:12,159

there's a scene really early on in the

737

00:28:15,269 --> 00:28:13,440

movie

738

00:28:16,789 --> 00:28:15,279

uh right near the beginning where you

739

00:28:17,990 --> 00:28:16,799

see a room full of air traffic

740

00:28:21,750 --> 00:28:18,000

controllers

741

00:28:24,149 --> 00:28:21,760

talking to a plane and this the one

742

00:28:26,310 --> 00:28:24,159

pilot kind of spots a light and it's a

743

00:28:27,269 --> 00:28:26,320

really it's a really gripping well done

744

00:28:29,110 --> 00:28:27,279

scene

745

00:28:30,870 --> 00:28:29,120

that shows what these guys are going

746

00:28:33,269 --> 00:28:30,880

through talking to pilots of two

747

00:28:35,669 --> 00:28:33,279

different planes who are seeing this and

748

00:28:37,190 --> 00:28:35,679

it zips by one of the planes and we kind

749

00:28:39,350 --> 00:28:37,200

of hear the static through the radio and

750

00:28:40,870 --> 00:28:39,360

everything and the reason i find that so

751
00:28:43,909 --> 00:28:40,880
compelling is

752
00:28:45,990 --> 00:28:43,919
uh steven spielberg cast those were all

753
00:28:46,870 --> 00:28:46,000
real air traffic controllers in that

754
00:28:49,269 --> 00:28:46,880
room

755
00:28:51,350 --> 00:28:49,279
and they all said that they've either

756
00:28:53,190 --> 00:28:51,360
witnessed or talked to pilots or other

757
00:28:55,990 --> 00:28:53,200
air traffic controllers who have

758
00:28:57,990 --> 00:28:56,000
witnessed that exact same circumstance

759
00:29:00,070 --> 00:28:58,000
so rather than spielberg creating

760
00:29:01,669 --> 00:29:00,080
something out of whole cloth he went to

761
00:29:03,750 --> 00:29:01,679
people who have experienced it and

762
00:29:06,149 --> 00:29:03,760
essentially wrote the scene off of what

763
00:29:08,310 --> 00:29:06,159

they experienced and

764

00:29:10,310 --> 00:29:08,320

any time that movie's on even if i don't

765

00:29:12,230 --> 00:29:10,320

get through all of it i try and watch

766

00:29:14,310 --> 00:29:12,240

that scene because you see and hear the

767

00:29:16,870 --> 00:29:14,320

voices of these real air traffic

768

00:29:19,750 --> 00:29:16,880

controllers essentially reenacting what

769

00:29:21,510 --> 00:29:19,760

they've experienced in the 1970s with

770

00:29:24,070 --> 00:29:21,520

these craft it was really an awesome

771

00:29:26,310 --> 00:29:24,080

sequence that is so cool man i know i

772

00:29:28,389 --> 00:29:26,320

remember vividly that scene you know

773

00:29:30,230 --> 00:29:28,399

they report they sort of say what's

774

00:29:31,750 --> 00:29:30,240

going on and then in the control room

775

00:29:34,149 --> 00:29:31,760

it's like

776

00:29:35,990 --> 00:29:34,159

do you want to report a ufo yeah you run

777

00:29:37,750 --> 00:29:36,000

a report a ufo and then there's a big

778

00:29:44,310 --> 00:29:37,760

pause and then

779

00:29:47,190 --> 00:29:45,669

i don't want to report one of those

780

00:29:48,789 --> 00:29:47,200

things either

781

00:29:50,549 --> 00:29:48,799

and then they come back to the first and

782

00:29:52,310 --> 00:29:50,559

they go would you like to file any sort

783

00:29:54,789 --> 00:29:52,320

of report he goes i wouldn't know what

784

00:29:56,710 --> 00:29:54,799

kind of report to file tower

785

00:29:57,909 --> 00:29:56,720

well such a great scene and i didn't

786

00:30:00,870 --> 00:29:57,919

know that through air traffic

787

00:30:03,510 --> 00:30:00,880

controllers until the magic of uh amazon

788

00:30:05,510 --> 00:30:03,520

x-ray i was watching the movie on amazon

789

00:30:07,590 --> 00:30:05,520

one night i was moving my cursor around

790

00:30:10,149 --> 00:30:07,600

it to check the data on x-ray and have

791

00:30:11,669 --> 00:30:10,159

this whole paragraph about the real

792

00:30:13,750 --> 00:30:11,679

traffic controllers and their real

793

00:30:16,789 --> 00:30:13,760

experiences so

794

00:30:18,549 --> 00:30:16,799

you know i picked that up 45 years after

795

00:30:20,310 --> 00:30:18,559

the first time years after the first

796

00:30:21,029 --> 00:30:20,320

time i whatever i first saw that movie

797

00:30:23,350 --> 00:30:21,039

so

798

00:30:25,350 --> 00:30:23,360

yep close encounters of the third kind

799

00:30:27,590 --> 00:30:25,360

trivia some

800

00:30:29,990 --> 00:30:27,600

40 years later i love it man well and

801
00:30:31,990 --> 00:30:30,000
you know people point out that francois

802
00:30:33,110 --> 00:30:32,000
truffaut in that movie essentially was

803
00:30:34,789 --> 00:30:33,120
playing

804
00:30:36,710 --> 00:30:34,799
um

805
00:30:38,789 --> 00:30:36,720
who am i thinking of the

806
00:30:41,750 --> 00:30:38,799
jacques valet he's basically portraying

807
00:30:42,870 --> 00:30:41,760
chocolate jay allen heineck appears in

808
00:30:46,149 --> 00:30:42,880
the movie

809
00:30:48,230 --> 00:30:46,159
i mean spielberg had as much information

810
00:30:52,070 --> 00:30:48,240
as you could have in the 70s when he put

811
00:30:54,070 --> 00:30:52,080
that together on the five observables on

812
00:30:56,230 --> 00:30:54,080
the thing interfering with electronics

813
00:30:58,310 --> 00:30:56,240

and the vehicles on he portrayed all

814

00:31:00,470 --> 00:30:58,320

those things in that movie so there's

815

00:31:02,549 --> 00:31:00,480

definitely some horror corny kind of 70s

816

00:31:04,389 --> 00:31:02,559

elements in that movie and some some

817

00:31:06,870 --> 00:31:04,399

kramer versus kramer kind of family

818

00:31:10,070 --> 00:31:06,880

drama in the movie but at its core it's

819

00:31:12,070 --> 00:31:10,080

it's my favorite ufo movie by far well

820

00:31:15,029 --> 00:31:12,080

and it made me look at mashed potatoes

821

00:31:17,590 --> 00:31:15,039

never the same again right um well chris

822

00:31:19,590 --> 00:31:17,600

what do you before we move on what do

823

00:31:21,509 --> 00:31:19,600

you make of that what spielberg did with

824

00:31:22,630 --> 00:31:21,519

this movie why do you think

825

00:31:24,470 --> 00:31:22,640

he

826

00:31:26,230 --> 00:31:24,480

made this movie do you think a lot of

827

00:31:27,990 --> 00:31:26,240

people i really like that

828

00:31:30,070 --> 00:31:28,000

you know isn't i i believe that's an

829

00:31:32,230 --> 00:31:30,080

information thing yeah yeah i think

830

00:31:33,909 --> 00:31:32,240

james fox once said that steven

831

00:31:36,630 --> 00:31:33,919

spielberg was the one that pointed him

832

00:31:40,630 --> 00:31:36,640

to the ariel school uh incident

833

00:31:43,190 --> 00:31:40,640

uh yeah and i think that you know

834

00:31:45,190 --> 00:31:43,200

when you're in show business the people

835

00:31:47,430 --> 00:31:45,200

i have the chance to work with and be

836

00:31:49,269 --> 00:31:47,440

around that are actually on camera types

837

00:31:51,909 --> 00:31:49,279

people love telling you stuff you're a

838

00:31:53,590 --> 00:31:51,919

celebrity i can't wait to tell you you

839

00:31:56,470 --> 00:31:53,600

know i think there's even a famous story

840

00:31:58,789 --> 00:31:56,480

about uh uh president nixon telling uh

841

00:32:00,789 --> 00:31:58,799

jackie gleason or so you know jfk one of

842

00:32:03,110 --> 00:32:00,799

these guys telling jackie gleason about

843

00:32:04,149 --> 00:32:03,120

ufos and bodies or something but it's

844

00:32:06,789 --> 00:32:04,159

true

845

00:32:09,190 --> 00:32:06,799

and so in putting that movie together

846

00:32:11,350 --> 00:32:09,200

spielberg was talking to i mean if if

847

00:32:13,190 --> 00:32:11,360

it's 1976 and you're

848

00:32:14,950 --> 00:32:13,200

working behind the scenes on that movie

849

00:32:17,110 --> 00:32:14,960

and you're talking to jay allen heimik

850

00:32:19,190 --> 00:32:17,120

and jacques villa i mean you're pretty

851
00:32:22,549 --> 00:32:19,200
much as high up the ufo letters you're

852
00:32:25,990 --> 00:32:22,559
going to get in the 70s and yeah i think

853
00:32:28,310 --> 00:32:26,000
he really tried to portray

854
00:32:31,190 --> 00:32:28,320
what people were really experiencing in

855
00:32:33,190 --> 00:32:31,200
a dramatized fashion with his own kind

856
00:32:34,630 --> 00:32:33,200
of neat take on what the conclusion

857
00:32:36,710 --> 00:32:34,640
might be

858
00:32:39,669 --> 00:32:36,720
yeah yeah and you've got shades of

859
00:32:42,389 --> 00:32:39,679
project serpo in there as well so as

860
00:32:45,750 --> 00:32:42,399
usual it's fact blending with fiction

861
00:32:47,750 --> 00:32:45,760
when it comes to ufos but um well hey um

862
00:32:49,909 --> 00:32:47,760
before we move on to how you got into

863
00:32:51,590 --> 00:32:49,919

the debrief um we should mention the

864

00:32:53,190 --> 00:32:51,600

blaster and the poster in the background

865

00:32:55,990 --> 00:32:53,200

people in the comments are

866

00:32:59,110 --> 00:32:56,000

commenting on such i love the revenge of

867

00:33:01,430 --> 00:32:59,120

this uh sorry revenge of the jedi the

868

00:33:04,149 --> 00:33:01,440

original title um

869

00:33:05,750 --> 00:33:04,159

so i assume you're a big star wars fan

870

00:33:08,070 --> 00:33:05,760

i'm just gonna i don't know what star

871

00:33:11,430 --> 00:33:08,080

wars is ryan but i keep hearing about it

872

00:33:14,389 --> 00:33:11,440

sounds great um yeah you know uh when i

873

00:33:16,149 --> 00:33:14,399

was young again you go back to 1977 i

874

00:33:19,590 --> 00:33:16,159

was eight years old so i was perfectly

875

00:33:21,669 --> 00:33:19,600

primed for star wars to come out and

876

00:33:24,710 --> 00:33:21,679

back in those days a good movie could

877

00:33:27,669 --> 00:33:24,720

stay in the theater for a year so there

878

00:33:29,509 --> 00:33:27,679

was basically a 12-month con of me

879

00:33:31,430 --> 00:33:29,519

trying to get my parents to take me to

880

00:33:33,509 --> 00:33:31,440

that movie over and over and i

881

00:33:36,470 --> 00:33:33,519

successfully saw it six times in the

882

00:33:38,149 --> 00:33:36,480

theater in 1977 in the beginning of 78

883

00:33:39,669 --> 00:33:38,159

which was a huge accomplishment among

884

00:33:41,509 --> 00:33:39,679

the other third and fourth graders i'll

885

00:33:44,149 --> 00:33:41,519

have you know but uh

886

00:33:46,870 --> 00:33:44,159

yeah star wars it's just uh

887

00:33:49,590 --> 00:33:46,880

i like epic storytelling i like that

888

00:33:52,389 --> 00:33:49,600

hero's tale i like the structure of the

889

00:33:55,190 --> 00:33:52,399

iliad and the odyssey which is what uh

890

00:33:58,070 --> 00:33:55,200

what he used for those movies he bases

891

00:34:00,149 --> 00:33:58,080

it more on the the serialized uh buck

892

00:34:02,389 --> 00:34:00,159

rogers from the 50s sort of things he

893

00:34:05,029 --> 00:34:02,399

watched as a kid but there's no doubt

894

00:34:08,790 --> 00:34:05,039

it's a traditional humble beginnings

895

00:34:11,270 --> 00:34:08,800

epic hero tale uh that rises up to

896

00:34:13,669 --> 00:34:11,280

more or less a destiny to embrace it as

897

00:34:16,629 --> 00:34:13,679

a matter of fact directly above that gun

898

00:34:19,109 --> 00:34:16,639

i'm gonna tip this up is my first book

899

00:34:21,510 --> 00:34:19,119

whispers of fate it's an epic fantasy

900

00:34:23,030 --> 00:34:21,520

novel and one of the reviewers who wrote

901
00:34:25,430 --> 00:34:23,040
a review on it when it first came out

902
00:34:28,069 --> 00:34:25,440
compared it to star wars i don't see it

903
00:34:29,990 --> 00:34:28,079
but i do have a i do have a humble

904
00:34:32,230 --> 00:34:30,000
heroine who starts from humble

905
00:34:34,710 --> 00:34:32,240
beginnings and rises up to meet her

906
00:34:35,430 --> 00:34:34,720
potentially destined the

907
00:34:44,230 --> 00:34:35,440
the

908
00:34:48,869 --> 00:34:44,240
and timing man i was just a member of

909
00:34:50,550 --> 00:34:48,879
the star wars fan club in 1980

910
00:34:53,750 --> 00:34:50,560
or so when that came out was kind of

911
00:34:56,869 --> 00:34:53,760
right the tail end of that uh that run

912
00:34:58,470 --> 00:34:56,879
for the star wars fan club and uh

913
00:34:59,750 --> 00:34:58,480

you had the opportunity to buy these

914

00:35:02,870 --> 00:34:59,760

posters

915

00:35:04,870 --> 00:35:02,880

before the movie came out and i got one

916

00:35:06,710 --> 00:35:04,880

and now it's worth a couple of g's so

917

00:35:08,150 --> 00:35:06,720

anybody who wants to break in that's

918

00:35:09,750 --> 00:35:08,160

probably the most expensive thing in the

919

00:35:12,390 --> 00:35:09,760

home office yeah i'm going to put your

920

00:35:15,349 --> 00:35:12,400

address here in the comments yes right

921

00:35:17,430 --> 00:35:15,359

exactly somebody docks yeah

922

00:35:19,430 --> 00:35:17,440

i get this poster you are going to have

923

00:35:21,670 --> 00:35:19,440

to go through a very large science

924

00:35:23,750 --> 00:35:21,680

writer to get it so

925

00:35:25,190 --> 00:35:23,760

i'm not messing with you

926

00:35:27,190 --> 00:35:25,200

especially with that blaster in the

927

00:35:29,349 --> 00:35:27,200

background but um yeah if anyone wants

928

00:35:31,349 --> 00:35:29,359

to uh do the super chat this will go

929

00:35:33,430 --> 00:35:31,359

towards the four g's to get that

930

00:35:36,550 --> 00:35:33,440

beautiful post that's right and this uh

931

00:35:39,190 --> 00:35:36,560

this blaster was bought in the 1970s as

932

00:35:41,750 --> 00:35:39,200

a little boy that's a that's in my boxes

933

00:35:44,069 --> 00:35:41,760

and my brother recently bequeathed me

934

00:35:46,390 --> 00:35:44,079

the box of quote-unquote star wars stuff

935

00:35:48,230 --> 00:35:46,400

that we saved since we were little boys

936

00:35:51,430 --> 00:35:48,240

and it's got all kinds of neat

937

00:35:53,030 --> 00:35:51,440

memorabilia and characters and fan club

938

00:35:55,109 --> 00:35:53,040

notices and all kinds of cool stuff in

939

00:35:55,910 --> 00:35:55,119

there but uh i went ahead and put the

940

00:36:01,990 --> 00:35:55,920

the

941

00:36:03,589 --> 00:36:02,000

was a uh like a little r2d2

942

00:36:05,109 --> 00:36:03,599

uh

943

00:36:06,950 --> 00:36:05,119

card somebody gave me as a birthday

944

00:36:09,670 --> 00:36:06,960

again when i was like eight years old so

945

00:36:12,470 --> 00:36:09,680

that's like a like a 40-something year

946

00:36:15,109 --> 00:36:12,480

old birthday card right there love it

947

00:36:16,950 --> 00:36:15,119

that's awesome man you know well okay i

948

00:36:19,190 --> 00:36:16,960

guess we'll move on from star wars even

949

00:36:21,670 --> 00:36:19,200

though i could talk about it forever i

950

00:36:23,750 --> 00:36:21,680

should mention um a little quick story

951
00:36:27,030 --> 00:36:23,760
chris when um when i was in middle

952
00:36:29,750 --> 00:36:27,040
school uh or elementary school excuse me

953
00:36:31,670 --> 00:36:29,760
um i had that moment in the lunchroom i

954
00:36:34,630 --> 00:36:31,680
went from a catholic school to a public

955
00:36:37,349 --> 00:36:34,640
school and i was terrified um i had no

956
00:36:39,430 --> 00:36:37,359
friends um i showed up to school the

957
00:36:41,190 --> 00:36:39,440
first day and like a button down with a

958
00:36:43,109 --> 00:36:41,200
tie because i was used to that at

959
00:36:44,950 --> 00:36:43,119
catholic school and everyone made fun of

960
00:36:47,750 --> 00:36:44,960
me um but

961
00:36:49,750 --> 00:36:47,760
i remember um getting my lunch and

962
00:36:51,910 --> 00:36:49,760
having that moment of

963
00:36:55,030 --> 00:36:51,920

every table who do i sit with what do i

964

00:36:57,670 --> 00:36:55,040

do um i i don't know so of course i went

965

00:37:00,390 --> 00:36:57,680

and sat by myself and then these three

966

00:37:02,069 --> 00:37:00,400

guys came over and sat down next to me

967

00:37:03,829 --> 00:37:02,079

and they were like hey can um do you

968

00:37:06,390 --> 00:37:03,839

mind if we sit there i was like no no

969

00:37:08,310 --> 00:37:06,400

not at all and they bust out these cards

970

00:37:10,230 --> 00:37:08,320

and they start playing this card game

971

00:37:12,710 --> 00:37:10,240

and i'm just looking at this like what

972

00:37:15,589 --> 00:37:12,720

these aren't like regular playing deck

973

00:37:17,430 --> 00:37:15,599

cards so what is this and i start seeing

974

00:37:18,630 --> 00:37:17,440

that each of the the cards is a

975

00:37:20,310 --> 00:37:18,640

character

976

00:37:22,870 --> 00:37:20,320

and then you got darth vader you've got

977

00:37:25,910 --> 00:37:22,880

yoda you've got han solo you've got boba

978

00:37:27,510 --> 00:37:25,920

fett and i'm like oh my what is this and

979

00:37:29,670 --> 00:37:27,520

right then and there they explained to

980

00:37:31,510 --> 00:37:29,680

me what star wars was i didn't know what

981

00:37:34,069 --> 00:37:31,520

it was at the time and that this was

982

00:37:38,069 --> 00:37:34,079

like a a what do you call those like

983

00:37:39,910 --> 00:37:38,079

almost like magic the gathering um yeah

984

00:37:41,990 --> 00:37:39,920

you know the original ones that came out

985

00:37:43,910 --> 00:37:42,000

in the late 70s and early 80s i have a

986

00:37:46,150 --> 00:37:43,920

quite a pile of those they were

987

00:37:47,990 --> 00:37:46,160

literally just called star wars cards

988

00:37:50,550 --> 00:37:48,000

and they were like baseball cards the

989

00:37:52,470 --> 00:37:50,560

front would either have a character or a

990

00:37:54,069 --> 00:37:52,480

scene from the movie and then you would

991

00:37:56,069 --> 00:37:54,079

flip over on the back and it might have

992

00:37:58,630 --> 00:37:56,079

some information some might be about

993

00:37:59,670 --> 00:37:58,640

behind the scenes about the costume or

994

00:38:01,349 --> 00:37:59,680

the set

995

00:38:04,069 --> 00:38:01,359

but typically they were kind of the

996

00:38:05,670 --> 00:38:04,079

history of that character or or just a

997

00:38:08,390 --> 00:38:05,680

simple description of what you're seeing

998

00:38:10,069 --> 00:38:08,400

but yeah star wars cards and they have

999

00:38:12,550 --> 00:38:10,079

different colors they have the red

1000

00:38:14,310 --> 00:38:12,560

outline ones the the yellow outline oh

1001

00:38:16,870 --> 00:38:14,320

it was the thing when i was a little kid

1002

00:38:18,870 --> 00:38:16,880

and those were new man forget about it

1003

00:38:21,750 --> 00:38:18,880

and and they changed my life i started

1004

00:38:24,150 --> 00:38:21,760

playing i made friends i became obsessed

1005

00:38:26,790 --> 00:38:24,160

with star wars and yeah man it's made me

1006

00:38:28,710 --> 00:38:26,800

who i am today as i know it as you too

1007

00:38:31,030 --> 00:38:28,720

but um how

1008

00:38:33,510 --> 00:38:31,040

let's get to how you became

1009

00:38:35,190 --> 00:38:33,520

this head science writer at the debrief

1010

00:38:37,349 --> 00:38:35,200

i mean were you always i know you're a

1011

00:38:40,710 --> 00:38:37,359

writer yeah obviously you've been many

1012

00:38:41,589 --> 00:38:40,720

books uh but what really got you into

1013

00:38:43,349 --> 00:38:41,599

um

1014

00:38:45,190 --> 00:38:43,359

you know interviewing scientists and

1015

00:38:47,190 --> 00:38:45,200

working with the debrief how'd that all

1016

00:38:49,030 --> 00:38:47,200

start ryan it's something i've always

1017

00:38:51,270 --> 00:38:49,040

followed as a fan but i don't have any

1018

00:38:51,990 --> 00:38:51,280

advanced degrees in science or anything

1019

00:38:55,109 --> 00:38:52,000

so

1020

00:38:57,990 --> 00:38:55,119

uh i went to school ucla my shirt

1021

00:39:01,589 --> 00:38:58,000

for political science so that's you know

1022

00:39:04,790 --> 00:39:01,599

it's technically science right um

1023

00:39:06,310 --> 00:39:04,800

when i saw i joined ufo twitter i would

1024

00:39:07,910 --> 00:39:06,320

call it last summer i had opened a

1025

00:39:09,510 --> 00:39:07,920

twitter account a couple of years before

1026
00:39:12,069 --> 00:39:09,520
but animated looks in my timeline we'll

1027
00:39:14,069 --> 00:39:12,079
see i never used it and last summer i

1028
00:39:15,750 --> 00:39:14,079
just decided to jump on there for fun

1029
00:39:18,870 --> 00:39:15,760
and and

1030
00:39:21,510 --> 00:39:18,880
the second season of unidentified with

1031
00:39:22,710 --> 00:39:21,520
lou elizondo and the guys were up and it

1032
00:39:25,030 --> 00:39:22,720
wasn't as

1033
00:39:27,190 --> 00:39:25,040
satisfying as the first season and i

1034
00:39:29,589 --> 00:39:27,200
think like a lot of people that had had

1035
00:39:31,109 --> 00:39:29,599
ridden the roller coaster from 2017 to

1036
00:39:33,349 --> 00:39:31,119
2020

1037
00:39:35,750 --> 00:39:33,359
i wanted more i wanted that next big

1038
00:39:37,430 --> 00:39:35,760

bomb to drop and i saw it wasn't coming

1039

00:39:39,829 --> 00:39:37,440

so i jumped on twitter i knew there

1040

00:39:43,510 --> 00:39:39,839

would be activity there and i started

1041

00:39:45,750 --> 00:39:43,520

following ufo twitter and very quickly i

1042

00:39:48,150 --> 00:39:45,760

stumbled upon one lieutenant tim

1043

00:39:49,829 --> 00:39:48,160

mcmillan and he was somebody i started

1044

00:39:52,310 --> 00:39:49,839

following and i started following the

1045

00:39:55,030 --> 00:39:52,320

other guys in and around the debrief um

1046

00:39:56,710 --> 00:39:55,040

not aware that that project was coming

1047

00:39:59,270 --> 00:39:56,720

and uh

1048

00:40:02,150 --> 00:39:59,280

i had an interaction with tim about the

1049

00:40:04,390 --> 00:40:02,160

ua ptf about this idea of what that

1050

00:40:07,109 --> 00:40:04,400

report might look like and what the

1051
00:40:08,790 --> 00:40:07,119
conclusions in that report might be so i

1052
00:40:11,190 --> 00:40:08,800
threw out my top three guesses on

1053
00:40:12,470 --> 00:40:11,200
twitter and tim swears he remembers this

1054
00:40:13,589 --> 00:40:12,480
although we didn't know each other at

1055
00:40:16,710 --> 00:40:13,599
the time

1056
00:40:18,550 --> 00:40:16,720
and i put out my top three guesses and

1057
00:40:20,550 --> 00:40:18,560
you know i forget what they were but but

1058
00:40:23,750 --> 00:40:20,560
one of them was more or less what they

1059
00:40:24,950 --> 00:40:23,760
reported and tim tweeted back to me and

1060
00:40:28,470 --> 00:40:24,960
he said

1061
00:40:30,710 --> 00:40:28,480
two of these three guesses are incorrect

1062
00:40:32,950 --> 00:40:30,720
and that started a firestorm because

1063
00:40:34,950 --> 00:40:32,960

everybody on twitter went oh crap one of

1064

00:40:36,069 --> 00:40:34,960

these three is correct

1065

00:40:37,589 --> 00:40:36,079

so

1066

00:40:39,430 --> 00:40:37,599

he and i i mean

1067

00:40:41,589 --> 00:40:39,440

for a week straight my twitter

1068

00:40:43,510 --> 00:40:41,599

notifications were 20 plus every time i

1069

00:40:46,150 --> 00:40:43,520

opened twitter right i just it was this

1070

00:40:48,390 --> 00:40:46,160

firestorm a conversation and so on the

1071

00:40:50,069 --> 00:40:48,400

selfish level i went hey i write books i

1072

00:40:52,309 --> 00:40:50,079

need a place to sell books i'll start

1073

00:40:53,910 --> 00:40:52,319

interacting over on ufo twitter because

1074

00:40:56,150 --> 00:40:53,920

i have some knowledge it's something

1075

00:40:58,470 --> 00:40:56,160

i've followed my whole life and maybe

1076

00:41:00,950 --> 00:40:58,480

ufo fans will be interested in fantasy

1077

00:41:02,550 --> 00:41:00,960

and ultimately science fiction novels

1078

00:41:05,030 --> 00:41:02,560

what i didn't realize it would actually

1079

00:41:07,109 --> 00:41:05,040

work the other way i got sucked in

1080

00:41:09,430 --> 00:41:07,119

so um

1081

00:41:12,470 --> 00:41:09,440

i was following those guys

1082

00:41:13,910 --> 00:41:12,480

and it became clear that on november

1083

00:41:17,270 --> 00:41:13,920

30th

1084

00:41:20,069 --> 00:41:17,280

which is today one year later oh wow

1085

00:41:22,390 --> 00:41:20,079

happy birthday yes that on november well

1086

00:41:25,190 --> 00:41:22,400

it's for the debrief for the debris it

1087

00:41:26,870 --> 00:41:25,200

came out that yes november 30th the

1088

00:41:28,069 --> 00:41:26,880

debris was going to kick off and there

1089

00:41:33,349 --> 00:41:28,079

was

1090

00:41:36,150 --> 00:41:33,359

coming and we were all like this could

1091

00:41:38,870 --> 00:41:36,160

be the other shoe to drop

1092

00:41:41,109 --> 00:41:38,880

so uh i'm a writer i work late and i'm

1093

00:41:42,470 --> 00:41:41,119

often up till riding till 11 o'clock

1094

00:41:44,390 --> 00:41:42,480

midnight even

1095

00:41:46,230 --> 00:41:44,400

and so at midnight

1096

00:41:49,270 --> 00:41:46,240

i said all right it's it's

1097

00:41:51,510 --> 00:41:49,280

it's 3am november 30th on the east coast

1098

00:41:53,990 --> 00:41:51,520

it's now november 30th on the west coast

1099

00:41:56,550 --> 00:41:54,000

let me jump over to this debrief

1100

00:41:58,390 --> 00:41:56,560

and uh it wasn't up right refresh

1101
00:42:00,470 --> 00:41:58,400
refresh refresh i was doing the same

1102
00:42:02,470 --> 00:42:00,480
thing ryan that turned i'm sure you

1103
00:42:06,150 --> 00:42:02,480
recall that turned into a multi-hour

1104
00:42:07,750 --> 00:42:06,160
odyssey and at like 3 a.m my wife looks

1105
00:42:09,910 --> 00:42:07,760
in and i'm still in the office and she

1106
00:42:11,510 --> 00:42:09,920
goes what are you doing and i'm sure i

1107
00:42:13,829 --> 00:42:11,520
was bleary-eyed at this point i'm like

1108
00:42:16,870 --> 00:42:13,839
i'm waiting for the debris waiting for

1109
00:42:18,550 --> 00:42:16,880
disclosure yeah yeah yes the ufos are

1110
00:42:20,950 --> 00:42:18,560
coming and i don't want to sleep through

1111
00:42:23,190 --> 00:42:20,960
it so

1112
00:42:24,790 --> 00:42:23,200
that article came out i was blown away i

1113
00:42:26,950 --> 00:42:24,800

was like okay

1114

00:42:29,109 --> 00:42:26,960

this guy knows his stuff and he's

1115

00:42:30,870 --> 00:42:29,119

reporting i mean i tell anyone if you're

1116

00:42:32,710 --> 00:42:30,880

ever feeling like things haven't

1117

00:42:35,349 --> 00:42:32,720

happened in the last year

1118

00:42:37,990 --> 00:42:35,359

just reread that first story about trans

1119

00:42:39,990 --> 00:42:38,000

medium vehicles and objects of unknown

1120

00:42:42,630 --> 00:42:40,000

origin i forget the exact title on the

1121

00:42:45,349 --> 00:42:42,640

debris that came out the opening day

1122

00:42:47,829 --> 00:42:45,359

tim recently retweeted it i think

1123

00:42:49,750 --> 00:42:47,839

just huge just revelation after

1124

00:42:52,069 --> 00:42:49,760

revelation from the military about what

1125

00:42:53,670 --> 00:42:52,079

they're dealing with both in the air and

1126
00:42:54,550 --> 00:42:53,680
uh underwater

1127
00:42:56,309 --> 00:42:54,560
and

1128
00:42:58,550 --> 00:42:56,319
tons of great data

1129
00:43:00,950 --> 00:42:58,560
so i started interacting with the guys

1130
00:43:02,550 --> 00:43:00,960
they're just staying in touch and on

1131
00:43:07,030 --> 00:43:02,560
december 8th

1132
00:43:09,670 --> 00:43:07,040
i had an interaction with uh mj banayas

1133
00:43:11,910 --> 00:43:09,680
uh editor-in-chief at the debrief

1134
00:43:13,670 --> 00:43:11,920
and uh it turned into a hey you're a

1135
00:43:15,270 --> 00:43:13,680
writer would you be interested in doing

1136
00:43:17,589 --> 00:43:15,280
some writing for us

1137
00:43:18,870 --> 00:43:17,599
uh so i took an assignment as a trial

1138
00:43:21,910 --> 00:43:18,880

run and

1139

00:43:23,670 --> 00:43:21,920

i'm now uh about 180 stories later so i

1140

00:43:26,150 --> 00:43:23,680

guess i got the job

1141

00:43:29,109 --> 00:43:26,160

you got the job man and you are a

1142

00:43:30,630 --> 00:43:29,119

shining star i like i said you publish

1143

00:43:32,870 --> 00:43:30,640

like

1144

00:43:35,430 --> 00:43:32,880

some days even two articles in a day

1145

00:43:36,870 --> 00:43:35,440

it's crazy lately it's been three a day

1146

00:43:39,430 --> 00:43:36,880

ryan because i've been doing the

1147

00:43:41,430 --> 00:43:39,440

newsfeed so not to not to pat myself on

1148

00:43:43,109 --> 00:43:41,440

the back here but the last three four

1149

00:43:45,270 --> 00:43:43,119

weeks or so and it's gonna continue that

1150

00:43:47,510 --> 00:43:45,280

way for a while um

1151

00:43:50,069 --> 00:43:47,520

but yeah it's you know the the thing i

1152

00:43:52,470 --> 00:43:50,079

feel like i bring to the debrief is this

1153

00:43:54,309 --> 00:43:52,480

i read these science articles anyways

1154

00:43:55,270 --> 00:43:54,319

it's what i told mj when he brought me

1155

00:43:59,030 --> 00:43:55,280

on

1156

00:44:01,910 --> 00:43:59,040

me to write ufos and he said no no no i

1157

00:44:03,750 --> 00:44:01,920

have ryan sprague jazz shaw

1158

00:44:05,750 --> 00:44:03,760

the three partners here

1159

00:44:08,230 --> 00:44:05,760

graham randall i have plenty of guys

1160

00:44:11,030 --> 00:44:08,240

covering the uap topic i need somebody

1161

00:44:14,550 --> 00:44:11,040

to cover this cutting edge breakthrough

1162

00:44:17,190 --> 00:44:14,560

science technology propulsion bioscience

1163

00:44:18,790 --> 00:44:17,200

this rebelliously curious stuff that the

1164

00:44:20,950 --> 00:44:18,800

debrief covers

1165

00:44:22,870 --> 00:44:20,960

and so i started doing that i started

1166

00:44:25,589 --> 00:44:22,880

covering and as i told him at the time

1167

00:44:27,109 --> 00:44:25,599

this is what i read anyway before i go

1168

00:44:30,950 --> 00:44:27,119

to bed at night the wife's already

1169

00:44:33,670 --> 00:44:30,960

sacked out i go on fizz.org and eureka

1170

00:44:35,910 --> 00:44:33,680

learn these other places that nerds go

1171

00:44:38,790 --> 00:44:35,920

and i look up science stories to find

1172

00:44:40,790 --> 00:44:38,800

out hey are we building laser guns or i

1173

00:44:42,470 --> 00:44:40,800

wrote about a rail gun the other day

1174

00:44:45,430 --> 00:44:42,480

that you can carry around like a

1175

00:44:48,550 --> 00:44:45,440

handheld rail gun like this is the stuff

1176

00:44:49,990 --> 00:44:48,560

i would read anyway so i told mj i said

1177

00:44:51,349 --> 00:44:50,000

if this is what you want me to report

1178

00:44:53,349 --> 00:44:51,359

about

1179

00:44:55,750 --> 00:44:53,359

i'll try and balance i'll try and bring

1180

00:44:57,430 --> 00:44:55,760

that bridge i'll try and be somebody who

1181

00:44:59,910 --> 00:44:57,440

who's able to understand what he's

1182

00:45:01,750 --> 00:44:59,920

reading for the most part

1183

00:45:04,309 --> 00:45:01,760

and translate it into english for our

1184

00:45:07,750 --> 00:45:04,319

readers who don't want to spend 30 years

1185

00:45:10,630 --> 00:45:07,760

reading science articles like i have so

1186

00:45:13,349 --> 00:45:10,640

yeah rather than having a science degree

1187

00:45:14,390 --> 00:45:13,359

i feel like being in every man who uh

1188

00:45:16,150 --> 00:45:14,400

you know

1189

00:45:17,829 --> 00:45:16,160

looks at it the way someone like me when

1190

00:45:20,309 --> 00:45:17,839

someone says oh we've invented a wart

1191

00:45:22,309 --> 00:45:20,319

bubble i go well what does that mean

1192

00:45:25,829 --> 00:45:22,319

and they start talking about casimir

1193

00:45:28,630 --> 00:45:25,839

effect something my head rolls so i get

1194

00:45:30,630 --> 00:45:28,640

these scientists to explain it to me to

1195

00:45:32,790 --> 00:45:30,640

make me understand what they're talking

1196

00:45:35,190 --> 00:45:32,800

about so i can write about and tell

1197

00:45:37,910 --> 00:45:35,200

everybody hey listen to this amazing

1198

00:45:39,990 --> 00:45:37,920

thing they're doing and uh that's been a

1199

00:45:42,390 --> 00:45:40,000

total treat my favorite part of the job

1200

00:45:44,710 --> 00:45:42,400

every once while it does overflow ufos

1201

00:45:46,950 --> 00:45:44,720

uh there is some more of that coming too

1202

00:45:48,230 --> 00:45:46,960

and yes uh i mentioned the work bubble

1203

00:45:51,109 --> 00:45:48,240

that's a big story people have been

1204

00:45:52,710 --> 00:45:51,119

waiting on i was training trading emails

1205

00:45:54,470 --> 00:45:52,720

with the researcher today getting some

1206

00:45:56,870 --> 00:45:54,480

final images and stuff so that thing's

1207

00:45:59,190 --> 00:45:56,880

right around the corner awesome nikes

1208

00:46:03,030 --> 00:45:59,200

are just ass when's the warp bubble

1209

00:46:05,030 --> 00:46:03,040

article dropping so yeah yeah so come in

1210

00:46:07,910 --> 00:46:05,040

everything goes right

1211

00:46:09,670 --> 00:46:07,920

i hand it to mj tomorrow

1212

00:46:15,589 --> 00:46:09,680

and it runs on

1213

00:46:17,510 --> 00:46:15,599

thursday in the worst case scenario he

1214

00:46:20,470 --> 00:46:17,520

has to edit it over the weekend it comes

1215

00:46:22,069 --> 00:46:20,480

out monday but i'm hoping for thursday

1216

00:46:25,190 --> 00:46:22,079

because i'm going to be over there with

1217

00:46:28,630 --> 00:46:25,200

the singularity mike in the gang over at

1218

00:46:30,390 --> 00:46:28,640

the singularity lab and uh i hope to be

1219

00:46:31,990 --> 00:46:30,400

in the after glow of that story coming

1220

00:46:35,349 --> 00:46:32,000

out thursday morning so i can take a

1221

00:46:37,910 --> 00:46:35,359

break ah i can't wait you well deserved

1222

00:46:40,309 --> 00:46:37,920

images the researchers sending me the

1223

00:46:42,230 --> 00:46:40,319

quotes this person's sending me i'm

1224

00:46:44,150 --> 00:46:42,240

reading these going i can't wait to put

1225

00:46:45,270 --> 00:46:44,160

this story out so yeah there's a few

1226
00:46:46,390 --> 00:46:45,280
have popped through while we've been

1227
00:46:48,950 --> 00:46:46,400
talking because i was putting the

1228
00:46:50,390 --> 00:46:48,960
finishing touches on it today so we are

1229
00:46:52,309 --> 00:46:50,400
right there with that article it's an

1230
00:46:54,790 --> 00:46:52,319
any day sort of thing guys

1231
00:46:56,710 --> 00:46:54,800
perfect chris well let's um let's move

1232
00:46:58,950 --> 00:46:56,720
to some of your articles at the debrief

1233
00:47:01,190 --> 00:46:58,960
i swear i didn't even mean to do this

1234
00:47:03,109 --> 00:47:01,200
episode on the birthday of the debrief

1235
00:47:05,190 --> 00:47:03,119
that's pretty cool but uh yeah oh i was

1236
00:47:06,950 --> 00:47:05,200
tickled when i heard it i told i put

1237
00:47:08,870 --> 00:47:06,960
right in the work group chat we have

1238
00:47:10,230 --> 00:47:08,880

some new video content providers and

1239

00:47:12,230 --> 00:47:10,240

some other people that have been joining

1240

00:47:13,750 --> 00:47:12,240

the team lately and i tweeted out

1241

00:47:15,670 --> 00:47:13,760

private message people and i said hey

1242

00:47:17,190 --> 00:47:15,680

guys it's the one year anniversary

1243

00:47:19,190 --> 00:47:17,200

chrissy newton's been doing that

1244

00:47:20,630 --> 00:47:19,200

christina gomez has been doing that

1245

00:47:22,630 --> 00:47:20,640

letting the world know it's our one year

1246

00:47:24,309 --> 00:47:22,640

anniversary and i figured i'd come on

1247

00:47:26,790 --> 00:47:24,319

here and talk about it since you invited

1248

00:47:29,190 --> 00:47:26,800

me off so yeah it's good timing for sure

1249

00:47:30,790 --> 00:47:29,200

absolutely it's always in the timing if

1250

00:47:33,430 --> 00:47:30,800

i've learned anything well let's talk

1251

00:47:36,870 --> 00:47:33,440

about this uh this first article i want

1252

00:47:39,349 --> 00:47:36,880

to cover here flying saucer for one only

1253

00:47:40,309 --> 00:47:39,359

weeks away from its first

1254

00:47:42,630 --> 00:47:40,319

flight

1255

00:47:44,950 --> 00:47:42,640

now the headline obviously grabbed me as

1256

00:47:46,710 --> 00:47:44,960

i know it did a lot of ufo people so

1257

00:47:48,309 --> 00:47:46,720

yeah man while you're telling us a

1258

00:47:50,230 --> 00:47:48,319

little bit about this i'm gonna pull the

1259

00:47:53,349 --> 00:47:50,240

article up on the share screen but yeah

1260

00:47:57,109 --> 00:47:53,359

give it to us what is this one about so

1261

00:47:59,030 --> 00:47:57,119

uh the new marketplace for private

1262

00:48:00,549 --> 00:47:59,040

transportation uh you know a lot of

1263

00:48:02,309 --> 00:48:00,559

companies are working on self-driving

1264

00:48:04,710 --> 00:48:02,319

cars but what we're seeing is because of

1265

00:48:07,030 --> 00:48:04,720

battery technology and because of drone

1266

00:48:10,069 --> 00:48:07,040

technology we're basically seeing drones

1267

00:48:12,309 --> 00:48:10,079

for people right we're seeing the idea

1268

00:48:14,390 --> 00:48:12,319

of a drone that carries packages or

1269

00:48:17,829 --> 00:48:14,400

carries a camera or whatever being

1270

00:48:20,470 --> 00:48:17,839

scaled up to the to human size

1271

00:48:22,870 --> 00:48:20,480

and letting humans get inside it and fly

1272

00:48:25,030 --> 00:48:22,880

somewhere there's a company called joby

1273

00:48:27,109 --> 00:48:25,040

i mentioned in the article and they've

1274

00:48:29,109 --> 00:48:27,119

already gone through thousands of hours

1275

00:48:31,510 --> 00:48:29,119

of manned flights and testing and

1276
00:48:33,750 --> 00:48:31,520
working with the faa so there's a couple

1277
00:48:36,069 --> 00:48:33,760
of companies that are really close to

1278
00:48:38,230 --> 00:48:36,079
bringing these things to market now

1279
00:48:39,829 --> 00:48:38,240
imagine a drone

1280
00:48:42,549 --> 00:48:39,839
that's part say

1281
00:48:44,870 --> 00:48:42,559
i you live in the city right ryan so say

1282
00:48:47,510 --> 00:48:44,880
it's parked on top of the nearest

1283
00:48:49,829 --> 00:48:47,520
skyscraper building or whatever and you

1284
00:48:50,950 --> 00:48:49,839
take the elevator up and you climb in

1285
00:48:53,030 --> 00:48:50,960
this thing

1286
00:48:55,910 --> 00:48:53,040
and you you put in the destination in

1287
00:48:57,750 --> 00:48:55,920
the gps and it literally takes it from

1288
00:48:59,910 --> 00:48:57,760

there it takes off vertically like a

1289

00:49:01,510 --> 00:48:59,920

drone with four propellers down now this

1290

00:49:03,510 --> 00:49:01,520

isn't the one i'm talking about yet the

1291

00:49:06,309 --> 00:49:03,520

one you have on the screen this is just

1292

00:49:08,950 --> 00:49:06,319

the theory behind the technology you get

1293

00:49:11,109 --> 00:49:08,960

in it it flies you where you want to go

1294

00:49:13,589 --> 00:49:11,119

and it lands vertically we've now

1295

00:49:16,309 --> 00:49:13,599

removed the need for runways right for

1296

00:49:18,870 --> 00:49:16,319

these private even driving even driving

1297

00:49:20,549 --> 00:49:18,880

cars or flying cars something people my

1298

00:49:21,710 --> 00:49:20,559

age have dreamed about people older than

1299

00:49:24,390 --> 00:49:21,720

me forever

1300

00:49:25,910 --> 00:49:24,400

terafugia and aero mobile and some of

1301
00:49:26,870 --> 00:49:25,920
these companies that have made flying

1302
00:49:28,549 --> 00:49:26,880
cars

1303
00:49:31,270 --> 00:49:28,559
they're essentially airplanes you can

1304
00:49:33,030 --> 00:49:31,280
drive so they still need a runway to

1305
00:49:34,950 --> 00:49:33,040
take off and land you can't just pull

1306
00:49:36,470 --> 00:49:34,960
out these things you can pull out of

1307
00:49:38,390 --> 00:49:36,480
your driveway

1308
00:49:40,950 --> 00:49:38,400
so with that in mind this company called

1309
00:49:41,829 --> 00:49:40,960
zava and that's the article you have up

1310
00:49:44,710 --> 00:49:41,839
there

1311
00:49:47,270 --> 00:49:44,720
what they developed is and they have it

1312
00:49:49,670 --> 00:49:47,280
they have a there's a video of a scale

1313
00:49:51,990 --> 00:49:49,680

model being flown on their website and

1314

00:49:54,150 --> 00:49:52,000

then there's a video of the testing of

1315

00:49:57,430 --> 00:49:54,160

the full-size one i believe

1316

00:49:58,870 --> 00:49:57,440

it's basically a flying saucer shaped

1317

00:50:00,390 --> 00:49:58,880

drone

1318

00:50:03,109 --> 00:50:00,400

that takes advantage of some of the

1319

00:50:06,230 --> 00:50:03,119

aerodynamic principles of that shape

1320

00:50:08,710 --> 00:50:06,240

and you climb in the thing

1321

00:50:09,990 --> 00:50:08,720

it takes off vertically like you see on

1322

00:50:11,430 --> 00:50:10,000

the edge

1323

00:50:14,710 --> 00:50:11,440

it tips

1324

00:50:18,230 --> 00:50:14,720

and flies like a flying saucer now while

1325

00:50:19,750 --> 00:50:18,240

it's flying like that you are facing

1326

00:50:24,069 --> 00:50:19,760

face down

1327

00:50:26,710 --> 00:50:24,079

so you basically fly like superman

1328

00:50:29,589 --> 00:50:26,720

again a pre-programmed destination

1329

00:50:31,990 --> 00:50:29,599

and when it gets there it tips back and

1330

00:50:35,270 --> 00:50:32,000

it lands back and you open the doors and

1331

00:50:36,549 --> 00:50:35,280

you just step right out so it's a point

1332

00:50:38,150 --> 00:50:36,559

to point

1333

00:50:41,589 --> 00:50:38,160

one person

1334

00:50:43,990 --> 00:50:41,599

uh flying saucer-shaped drone and the

1335

00:50:44,950 --> 00:50:44,000

thing flies it works

1336

00:50:47,270 --> 00:50:44,960

and

1337

00:50:50,549 --> 00:50:47,280

they've been flying the real full-size

1338

00:50:52,150 --> 00:50:50,559

one on the tether for safety reasons but

1339

00:50:54,790 --> 00:50:52,160

that's what my article mentioned is

1340

00:50:56,470 --> 00:50:54,800

they're only weeks away from doing these

1341

00:50:59,109 --> 00:50:56,480

first flights

1342

00:51:00,549 --> 00:50:59,119

uh without the tether and the founder of

1343

00:51:02,870 --> 00:51:00,559

the company i don't remember his name

1344

00:51:05,589 --> 00:51:02,880

from the article but he said uh they're

1345

00:51:07,510 --> 00:51:05,599

only a few months away meaning before

1346

00:51:09,190 --> 00:51:07,520

the end of the upcoming year

1347

00:51:10,790 --> 00:51:09,200

they will be doing test flights with

1348

00:51:13,829 --> 00:51:10,800

people in them there will be people

1349

00:51:15,349 --> 00:51:13,839

flying these one-man flying saucers so

1350

00:51:16,950 --> 00:51:15,359

uh they're not going to display any

1351
00:51:19,270 --> 00:51:16,960
observables they're not going to break

1352
00:51:21,430 --> 00:51:19,280
the atmosphere and uh you know they're

1353
00:51:23,349 --> 00:51:21,440
not going to take you to outer space

1354
00:51:25,190 --> 00:51:23,359
but if you're looking for a personal

1355
00:51:27,829 --> 00:51:25,200
drone that will take you from point to

1356
00:51:31,349 --> 00:51:27,839
point a single person

1357
00:51:33,750 --> 00:51:31,359
i mean the thing goes 160 miles an hour

1358
00:51:34,630 --> 00:51:33,760
and uh it's good for

1359
00:51:36,230 --> 00:51:34,640
uh

1360
00:51:38,150 --> 00:51:36,240
i'm trying to remember but maybe about

1361
00:51:40,790 --> 00:51:38,160
like 20 minutes of battering charge so

1362
00:51:42,950 --> 00:51:40,800
you could go about 50 or 60 miles

1363
00:51:44,870 --> 00:51:42,960

so for someone who commutes to the city

1364

00:51:45,750 --> 00:51:44,880

back and forth or whatever things like

1365

00:51:48,710 --> 00:51:45,760

that

1366

00:51:50,470 --> 00:51:48,720

uh it's a it's an awesome vehicle

1367

00:51:52,790 --> 00:51:50,480

one other aspect

1368

00:51:54,230 --> 00:51:52,800

about this this thing that's in that

1369

00:51:55,750 --> 00:51:54,240

story

1370

00:51:58,069 --> 00:51:55,760

is that

1371

00:51:59,109 --> 00:51:58,079

because of the increase of this type of

1372

00:52:01,430 --> 00:51:59,119

vehicle

1373

00:52:03,430 --> 00:52:01,440

the owner points out that those tops of

1374

00:52:06,870 --> 00:52:03,440

buildings and those places where you can

1375

00:52:09,750 --> 00:52:06,880

land those are gonna become prime real

1376

00:52:13,349 --> 00:52:09,760

estate and the big companies that fly

1377

00:52:15,510 --> 00:52:13,359

tons of these basically urban air taxis

1378

00:52:18,230 --> 00:52:15,520

they're calling them are gonna scoop

1379

00:52:21,030 --> 00:52:18,240

that real estate up and people that have

1380

00:52:23,109 --> 00:52:21,040

this little one-man flying saucer may

1381

00:52:25,910 --> 00:52:23,119

not have the most ideal place to take

1382

00:52:28,470 --> 00:52:25,920

off and land from so they've designed a

1383

00:52:30,230 --> 00:52:28,480

bracket that will let you mount it to

1384

00:52:31,910 --> 00:52:30,240

the side of your building

1385

00:52:34,710 --> 00:52:31,920

so basically you could be in your

1386

00:52:38,309 --> 00:52:34,720

skyscraper open the window climb into

1387

00:52:41,510 --> 00:52:38,319

your uh one-man slime saucer go to your

1388

00:52:43,910 --> 00:52:41,520

destination and when you return it will

1389

00:52:46,069 --> 00:52:43,920

land in that bracket and let you step

1390

00:52:48,549 --> 00:52:46,079

back out and they point out that it's

1391

00:52:51,270 --> 00:52:48,559

basically like batman hanging off the uh

1392

00:52:53,349 --> 00:52:51,280

off the side of the building uh vehicle

1393

00:52:55,670 --> 00:52:53,359

so yeah i think i concluded the article

1394

00:52:57,670 --> 00:52:55,680

by saying you fly like superman you hang

1395

00:52:59,990 --> 00:52:57,680

on a building like batman and it's in

1396

00:53:01,589 --> 00:53:00,000

your own flying saucer so yeah i'll take

1397

00:53:04,069 --> 00:53:01,599

one first

1398

00:53:06,549 --> 00:53:04,079

sold brother anything to get me to work

1399

00:53:08,470 --> 00:53:06,559

quicker um well i'm gonna play um a

1400

00:53:11,750 --> 00:53:08,480

brief video of one of the prototypes of

1401

00:53:13,349 --> 00:53:11,760

these things um because i know

1402

00:53:16,309 --> 00:53:13,359

we'll watch the video first and then

1403

00:53:18,470 --> 00:53:16,319

comment i know these things are going to

1404

00:53:20,230 --> 00:53:18,480

be mistaken for

1405

00:53:22,150 --> 00:53:20,240

ufos we're going to get

1406

00:53:24,230 --> 00:53:22,160

videos photos of them everyone's going

1407

00:53:26,950 --> 00:53:24,240

to be sharing them on facebook saying

1408

00:53:29,430 --> 00:53:26,960

these are from alpha centauri but um

1409

00:53:32,390 --> 00:53:29,440

let's go ahead and play this little clip

1410

00:53:37,270 --> 00:53:34,630

i'm telling you man like we're gonna get

1411

00:53:39,990 --> 00:53:37,280

too many people thinking that's a legit

1412

00:53:42,069 --> 00:53:40,000

uap now it's just getting cluttered when

1413

00:53:44,069 --> 00:53:42,079

they start flying a full-size one ryan

1414

00:53:46,630 --> 00:53:44,079

you know we're gonna get photos and

1415

00:53:49,109 --> 00:53:46,640

reports and uh you know for sure

1416

00:53:51,750 --> 00:53:49,119

ugh i love it i love it well let's move

1417

00:53:54,230 --> 00:53:51,760

on to the next story over at the debrief

1418

00:53:56,950 --> 00:53:54,240

uh this one is a little more um

1419

00:53:58,309 --> 00:53:56,960

recent i believe i could be wrong

1420

00:54:01,349 --> 00:53:58,319

actually we're going to talk about new

1421

00:54:04,390 --> 00:54:01,359

telescope to search alpha centauri for

1422

00:54:06,230 --> 00:54:04,400

et's home let me read a little recap

1423

00:54:08,950 --> 00:54:06,240

here um it's hoping to launch in the

1424

00:54:11,670 --> 00:54:08,960

next two years um earth's closest

1425

00:54:13,589 --> 00:54:11,680

stellar neighbor um alpha centauri for

1426

00:54:16,950 --> 00:54:13,599

signs of exoplanets capable of

1427

00:54:19,190 --> 00:54:16,960

supporting et life so who did you talk

1428

00:54:21,190 --> 00:54:19,200

to for this one chris and yeah give us a

1429

00:54:22,630 --> 00:54:21,200

little background about this telescope

1430

00:54:24,150 --> 00:54:22,640

we're all we're hearing about now is

1431

00:54:25,030 --> 00:54:24,160

james well you know the web telescope

1432

00:54:30,390 --> 00:54:25,040

web

1433

00:54:33,510 --> 00:54:30,400

this is uh called the tullimon telescope

1434

00:54:36,710 --> 00:54:33,520

i think it's a native american name

1435

00:54:39,589 --> 00:54:36,720

for or an ancient name for that star

1436

00:54:41,430 --> 00:54:39,599

pairing that is alpha centauri and

1437

00:54:43,829 --> 00:54:41,440

basically here's

1438

00:54:46,710 --> 00:54:43,839

if we're going to look for life on

1439

00:54:49,910 --> 00:54:46,720

planets outside our solar system

1440

00:54:52,470 --> 00:54:49,920

the best first place to start

1441

00:54:54,309 --> 00:54:52,480

is the closest star to us

1442

00:54:56,069 --> 00:54:54,319

and there happens to be three stars

1443

00:54:59,109 --> 00:54:56,079

right there there's a pair known as

1444

00:55:01,990 --> 00:54:59,119

alpha centauri it's a binary star system

1445

00:55:03,829 --> 00:55:02,000

and then there's a third smaller

1446

00:55:06,069 --> 00:55:03,839

red dwarf star

1447

00:55:08,789 --> 00:55:06,079

known as proxima centauri and we've

1448

00:55:11,109 --> 00:55:08,799

already spotted a planet around proxima

1449

00:55:14,069 --> 00:55:11,119

centauri um

1450

00:55:17,109 --> 00:55:14,079

that lies within the habitable zone that

1451
00:55:18,870 --> 00:55:17,119
is probably a rocky planet uh based on

1452
00:55:20,630 --> 00:55:18,880
measurements and that that's just from

1453
00:55:22,390 --> 00:55:20,640
work from the hubble and uh other

1454
00:55:24,230 --> 00:55:22,400
telescopes so

1455
00:55:26,470 --> 00:55:24,240
we've already seen that but we saw that

1456
00:55:28,069 --> 00:55:26,480
with what's called the transit method

1457
00:55:29,270 --> 00:55:28,079
and it's what it sounds like you're

1458
00:55:31,910 --> 00:55:29,280
looking at the star through your

1459
00:55:33,990 --> 00:55:31,920
telescope and the planet goes in front

1460
00:55:36,710 --> 00:55:34,000
of it now you can't actually see that

1461
00:55:38,950 --> 00:55:36,720
movement but that planet caused the star

1462
00:55:41,349 --> 00:55:38,960
to dim a little bit because it blocks

1463
00:55:43,430 --> 00:55:41,359

some of the light as it moves in front

1464

00:55:45,750 --> 00:55:43,440

telescopes that are finely tuned enough

1465

00:55:47,190 --> 00:55:45,760

can actually see that dimming and if

1466

00:55:48,870 --> 00:55:47,200

they see it at the right rhythm and

1467

00:55:51,589 --> 00:55:48,880

often enough they can go yeah that's

1468

00:55:53,910 --> 00:55:51,599

something in orbit around that star and

1469

00:55:56,150 --> 00:55:53,920

based on the effect it has on the star

1470

00:55:58,789 --> 00:55:56,160

and some other characteristics they can

1471

00:56:01,829 --> 00:55:58,799

usually determine whether or not it's a

1472

00:56:04,150 --> 00:56:01,839

giant planet like uh you know uh jupiter

1473

00:56:05,990 --> 00:56:04,160

or saturn whether it's a mid-sized

1474

00:56:08,549 --> 00:56:06,000

planet like neptune or what they call

1475

00:56:11,750 --> 00:56:08,559

sub-neptune planets which are like earth

1476
00:56:14,549 --> 00:56:11,760
mars venus these smaller rocky planets

1477
00:56:16,309 --> 00:56:14,559
that can host life so this telescope

1478
00:56:17,750 --> 00:56:16,319
said well hey this team putting this

1479
00:56:20,549 --> 00:56:17,760
telescope i can't remember where they're

1480
00:56:21,829 --> 00:56:20,559
from um because i write a lot of stories

1481
00:56:23,829 --> 00:56:21,839
but

1482
00:56:25,990 --> 00:56:23,839
uh basically the goal is it might i

1483
00:56:27,109 --> 00:56:26,000
think maybe somewhere in new mexico or

1484
00:56:30,630 --> 00:56:27,119
arizona

1485
00:56:32,710 --> 00:56:30,640
i'm not sure so uh basically what they

1486
00:56:35,349 --> 00:56:32,720
decided was

1487
00:56:36,870 --> 00:56:35,359
let's see if there are planets

1488
00:56:38,630 --> 00:56:36,880

around

1489

00:56:41,510 --> 00:56:38,640

alpha centauri

1490

00:56:43,990 --> 00:56:41,520

using the wobble method and the wobble

1491

00:56:46,150 --> 00:56:44,000

method so if the planet if you're not

1492

00:56:48,950 --> 00:56:46,160

right in the perfect plane to see that

1493

00:56:51,829 --> 00:56:48,960

planet go across say it's orbiting the

1494

00:56:53,670 --> 00:56:51,839

star this way or at you know any number

1495

00:56:56,870 --> 00:56:53,680

of different angles that doesn't have it

1496

00:56:59,270 --> 00:56:56,880

crossed right in front of our eye line

1497

00:57:02,150 --> 00:56:59,280

you can't see it in the transit method

1498

00:57:05,030 --> 00:57:02,160

but what you can see is the star will

1499

00:57:08,230 --> 00:57:05,040

wobble as the planet goes around it or

1500

00:57:10,870 --> 00:57:08,240

planets because they will affect very

1501
00:57:13,510 --> 00:57:10,880
small effects but they will have effects

1502
00:57:14,950 --> 00:57:13,520
on that the position and orbit of the

1503
00:57:16,549 --> 00:57:14,960
star itself

1504
00:57:18,870 --> 00:57:16,559
so

1505
00:57:21,349 --> 00:57:18,880
the way you normally do that is you look

1506
00:57:23,990 --> 00:57:21,359
at that dot of light and measure it well

1507
00:57:25,910 --> 00:57:24,000
telescopes we have are not always so

1508
00:57:27,349 --> 00:57:25,920
great at doing that so what they're

1509
00:57:29,750 --> 00:57:27,359
doing is

1510
00:57:30,789 --> 00:57:29,760
something called a diffractive pupil

1511
00:57:34,230 --> 00:57:30,799
effect

1512
00:57:36,950 --> 00:57:34,240
it takes the light from that star

1513
00:57:38,390 --> 00:57:36,960

and spreads it out so it's not just one

1514

00:57:39,270 --> 00:57:38,400

little point of light but it looks like

1515

00:57:41,750 --> 00:57:39,280

a big

1516

00:57:44,230 --> 00:57:41,760

plume of a flower

1517

00:57:47,430 --> 00:57:44,240

and when the planet uh if planet or

1518

00:57:49,829 --> 00:57:47,440

planets if they exist in alpha centauri

1519

00:57:52,309 --> 00:57:49,839

are orbiting there

1520

00:57:54,470 --> 00:57:52,319

uh then it should perturb it you should

1521

00:57:55,750 --> 00:57:54,480

have the wobble effect and they think

1522

00:57:58,789 --> 00:57:55,760

it'll be much

1523

00:58:02,309 --> 00:57:58,799

easier for their telescope to spot

1524

00:58:03,750 --> 00:58:02,319

uh using that diffracted pupil effect so

1525

00:58:06,150 --> 00:58:03,760

basically

1526

00:58:08,390 --> 00:58:06,160

it's a mission to see are there planets

1527

00:58:11,030 --> 00:58:08,400

around our closest star

1528

00:58:12,150 --> 00:58:11,040

and if they are what type of planets

1529

00:58:17,030 --> 00:58:12,160

they are

1530

00:58:19,510 --> 00:58:17,040

exoplanets that fit right in the

1531

00:58:22,710 --> 00:58:19,520

habitable zone meaning the distance from

1532

00:58:23,829 --> 00:58:22,720

the star where water can uh liquid water

1533

00:58:25,990 --> 00:58:23,839

can exist

1534

00:58:28,789 --> 00:58:26,000

we think that's a key indicator of life

1535

00:58:30,710 --> 00:58:28,799

so this is a big step towards not just

1536

00:58:32,950 --> 00:58:30,720

looking for life outside

1537

00:58:35,750 --> 00:58:32,960

our solar system but looking forward to

1538

00:58:38,069 --> 00:58:35,760

literally the closest star system to us

1539

00:58:40,549 --> 00:58:38,079

to alpha centauri

1540

00:58:41,670 --> 00:58:40,559

which is crazy to think you know our

1541

00:58:44,470 --> 00:58:41,680

search for

1542

00:58:47,109 --> 00:58:44,480

um you know et life we always think oh

1543

00:58:49,670 --> 00:58:47,119

well it's got to be super far away

1544

00:58:51,510 --> 00:58:49,680

possibly interstellar even yet it could

1545

00:58:54,470 --> 00:58:51,520

be literally one of our closest

1546

00:58:56,549 --> 00:58:54,480

neighbors that's just astounding to me

1547

00:59:00,150 --> 00:58:56,559

you know and ryan i talked about this in

1548

00:59:01,990 --> 00:59:00,160

in uh in uh articles i've written but i

1549

00:59:04,150 --> 00:59:02,000

have a story coming out the next month

1550

00:59:06,710 --> 00:59:04,160

or so about a type of directed energy

1551
00:59:08,630 --> 00:59:06,720
propulsion it's basically a put a laser

1552
00:59:11,270 --> 00:59:08,640
up in space you point it at the ship you

1553
00:59:13,349 --> 00:59:11,280
wanna and you you basically push it with

1554
00:59:16,069 --> 00:59:13,359
laser light so that the ship doesn't

1555
00:59:18,789 --> 00:59:16,079
have any uh rocket fuel on it it's just

1556
00:59:21,109 --> 00:59:18,799
being pushed by uh some you know a laser

1557
00:59:23,829 --> 00:59:21,119
sitting in orbit that's pushing kind of

1558
00:59:26,630 --> 00:59:23,839
like a solar wind absolutely the exact

1559
00:59:28,710 --> 00:59:26,640
same concept as a solar sail but instead

1560
00:59:30,789 --> 00:59:28,720
of using the pressure of the sun we just

1561
00:59:32,950 --> 00:59:30,799
use a laser that we point at the craft

1562
00:59:35,349 --> 00:59:32,960
and the specially designed sail or

1563
00:59:37,589 --> 00:59:35,359

surface on the craft designed to take

1564

00:59:39,829 --> 00:59:37,599

that laser light and be pushed by it and

1565

00:59:42,470 --> 00:59:39,839

the beauty of that is as long as we have

1566

00:59:44,230 --> 00:59:42,480

power to our laser right there in orbit

1567

00:59:45,589 --> 00:59:44,240

you can just keep pushing that thing and

1568

00:59:48,230 --> 00:59:45,599

pushing that thing and pushing that

1569

00:59:50,309 --> 00:59:48,240

thing and there's some various laws of

1570

00:59:53,030 --> 00:59:50,319

physics and other things involved but

1571

00:59:54,390 --> 00:59:53,040

it's pretty realistic for us in current

1572

00:59:56,470 --> 00:59:54,400

technology

1573

00:59:58,309 --> 00:59:56,480

with the will and the money to make a

1574

01:00:00,309 --> 00:59:58,319

spacecraft that goes about 20 percent

1575

01:00:01,990 --> 01:00:00,319

the speed of light that's that's you

1576

01:00:04,549 --> 01:00:02,000

know traveling through

1577

01:00:06,549 --> 01:00:04,559

relativistic einsteinian space without

1578

01:00:08,309 --> 01:00:06,559

getting into the map of it that seems to

1579

01:00:10,230 --> 01:00:08,319

be from everyone i talked to that's the

1580

01:00:12,309 --> 01:00:10,240

limit about 20

1581

01:00:14,150 --> 01:00:12,319

but if you think about that if we're

1582

01:00:16,630 --> 01:00:14,160

looking at a star system like alva

1583

01:00:18,309 --> 01:00:16,640

centaur it's four light years away if

1584

01:00:20,630 --> 01:00:18,319

you can go twenty percent the speed of

1585

01:00:22,549 --> 01:00:20,640

light you can get there

1586

01:00:24,710 --> 01:00:22,559

in 20 years

1587

01:00:26,870 --> 01:00:24,720

right that's not too bad

1588

01:00:29,589 --> 01:00:26,880

each light year takes you five years to

1589

01:00:31,270 --> 01:00:29,599

go and you got four light years i mean

1590

01:00:33,750 --> 01:00:31,280

we send missions that you know the the

1591

01:00:36,309 --> 01:00:33,760

first mars rovers that i really followed

1592

01:00:37,910 --> 01:00:36,319

regularly were spirit and opportunity

1593

01:00:40,150 --> 01:00:37,920

they went up over 20 years ago and they

1594

01:00:42,950 --> 01:00:40,160

just quit working recently you know the

1595

01:00:44,630 --> 01:00:42,960

voyager spacecraft went up in the 70s

1596

01:00:46,630 --> 01:00:44,640

and we're still swapping signals with

1597

01:00:47,750 --> 01:00:46,640

them and they've left our solar system

1598

01:00:50,470 --> 01:00:47,760

completely

1599

01:00:52,309 --> 01:00:50,480

so the idea of sending a probe if we see

1600

01:00:54,710 --> 01:00:52,319

planets there

1601
01:00:56,069 --> 01:00:54,720
and we see planets that can support life

1602
01:00:58,549 --> 01:00:56,079
and we point one of these other

1603
01:01:00,950 --> 01:00:58,559
telescopes at those planets and see

1604
01:01:03,109 --> 01:01:00,960
elements in their atmosphere that seem

1605
01:01:05,349 --> 01:01:03,119
that there might be life there

1606
01:01:07,910 --> 01:01:05,359
it's within the range at least

1607
01:01:09,270 --> 01:01:07,920
theoretically of us sending a probe and

1608
01:01:11,030 --> 01:01:09,280
taking a picture and going what the

1609
01:01:14,470 --> 01:01:11,040
heck's going on there

1610
01:01:18,150 --> 01:01:14,480
love it that's so cool man well um let's

1611
01:01:20,470 --> 01:01:18,160
talk about another neighbor of ours now

1612
01:01:22,710 --> 01:01:20,480
you know this this planet ain't doing

1613
01:01:24,630 --> 01:01:22,720

too well let's be honest you know we we

1614

01:01:27,990 --> 01:01:24,640

have more and more signs leading to

1615

01:01:31,030 --> 01:01:28,000

global warming and catastrophes and this

1616

01:01:33,190 --> 01:01:31,040

that we're destroying our planet is what

1617

01:01:35,349 --> 01:01:33,200

we are being told by the visitors who

1618

01:01:37,430 --> 01:01:35,359

have you know come into contact with

1619

01:01:39,910 --> 01:01:37,440

people here on earth you guys gotta

1620

01:01:42,870 --> 01:01:39,920

shape up or ship out is what we hear in

1621

01:01:44,870 --> 01:01:42,880

these et contact stories and um what

1622

01:01:47,190 --> 01:01:44,880

better place to ship out to

1623

01:01:51,430 --> 01:01:47,200

than the moon and now we're learning

1624

01:01:53,510 --> 01:01:51,440

that there is oxygen on the moon and you

1625

01:01:56,789 --> 01:01:53,520

recently wrote about this how much

1626

01:02:00,150 --> 01:01:56,799

oxygen is already on the moon and will

1627

01:02:01,270 --> 01:02:00,160

we able will we ever be able to

1628

01:02:03,270 --> 01:02:01,280

basically

1629

01:02:04,630 --> 01:02:03,280

habitate the moon so yeah tell us a

1630

01:02:07,349 --> 01:02:04,640

little about this story if you don't

1631

01:02:08,309 --> 01:02:07,359

mind so uh first of all

1632

01:02:10,710 --> 01:02:08,319

um

1633

01:02:13,029 --> 01:02:10,720

when we we are causing significant

1634

01:02:14,789 --> 01:02:13,039

damage to the biosphere on earth there's

1635

01:02:16,230 --> 01:02:14,799

a good argument for that there's even

1636

01:02:18,470 --> 01:02:16,240

scientists have talked about changing

1637

01:02:19,630 --> 01:02:18,480

the current era to the anthropocene

1638

01:02:22,309 --> 01:02:19,640

which would mean

1639

01:02:24,710 --> 01:02:22,319

anthropomorphic or you know human

1640

01:02:26,789 --> 01:02:24,720

effects so like the pleistocene era or

1641

01:02:29,270 --> 01:02:26,799

the mesozoic or these other ones here

1642

01:02:31,829 --> 01:02:29,280

this will be the anthropocene so keep in

1643

01:02:34,069 --> 01:02:31,839

mind the planet earth we're not going to

1644

01:02:36,230 --> 01:02:34,079

screw the planet up the planet is the

1645

01:02:38,390 --> 01:02:36,240

planet we we're not powerful yet enough

1646

01:02:40,710 --> 01:02:38,400

to do it but

1647

01:02:43,029 --> 01:02:40,720

basically when you start a few thousand

1648

01:02:45,029 --> 01:02:43,039

meters underground and you go out to the

1649

01:02:46,069 --> 01:02:45,039

outer edges of our atmosphere that

1650

01:02:50,870 --> 01:02:46,079

little

1651

01:02:53,109 --> 01:02:50,880

you know the surface of our planet up to

1652

01:02:54,870 --> 01:02:53,119

maybe the top of mount everest right and

1653

01:02:57,670 --> 01:02:54,880

maybe down to the deepest parts of the

1654

01:02:58,710 --> 01:02:57,680

ocean that's where we live that little

1655

01:03:00,630 --> 01:02:58,720

thin

1656

01:03:02,309 --> 01:03:00,640

orange peel of the planet we can

1657

01:03:04,390 --> 01:03:02,319

definitely screw that up we definitely

1658

01:03:06,630 --> 01:03:04,400

seem to be doing damage to it

1659

01:03:08,710 --> 01:03:06,640

so the planet will be just fine uh

1660

01:03:11,029 --> 01:03:08,720

they're just the area that we live in

1661

01:03:12,950 --> 01:03:11,039

may not be there or be permanent if we

1662

01:03:14,710 --> 01:03:12,960

don't do something about it so yeah

1663

01:03:16,950 --> 01:03:14,720

there's a lot of talk by guys like elon

1664

01:03:19,349 --> 01:03:16,960

musk and other people about colonizing

1665

01:03:21,829 --> 01:03:19,359

the moon or colonizing mars

1666

01:03:23,670 --> 01:03:21,839

this study was really interesting

1667

01:03:25,589 --> 01:03:23,680

because basically what they determined

1668

01:03:27,510 --> 01:03:25,599

was

1669

01:03:29,349 --> 01:03:27,520

if you look if you go to the moon right

1670

01:03:30,950 --> 01:03:29,359

all you see is rocks and dirt right

1671

01:03:32,950 --> 01:03:30,960

that's what's there rocks and dirt they

1672

01:03:34,710 --> 01:03:32,960

call it regolith and according to

1673

01:03:37,190 --> 01:03:34,720

astronauts who walked around on the moon

1674

01:03:39,910 --> 01:03:37,200

in the 70s the crab gets everywhere it's

1675

01:03:42,069 --> 01:03:39,920

like the worst dust the worst beach sand

1676

01:03:44,470 --> 01:03:42,079

ever i mean it gets everywhere it falls

1677

01:03:47,510 --> 01:03:44,480

up everything but what's amazing about

1678

01:03:50,710 --> 01:03:47,520

that rock and that that dirt

1679

01:03:51,910 --> 01:03:50,720

is it is made up of 45

1680

01:03:53,510 --> 01:03:51,920

oxygen

1681

01:03:56,390 --> 01:03:53,520

by volume so

1682

01:03:58,549 --> 01:03:56,400

it is almost half oxygen now on earth if

1683

01:04:00,630 --> 01:03:58,559

we want to split oxygen away from other

1684

01:04:03,510 --> 01:04:00,640

molecules we use a process called

1685

01:04:05,270 --> 01:04:03,520

electrolysis like i tell people drop a

1686

01:04:06,950 --> 01:04:05,280

battery in a cup of water and you'll see

1687

01:04:08,309 --> 01:04:06,960

a little stream of bubbles coming off

1688

01:04:10,150 --> 01:04:08,319

each end and one of those is oxygen

1689

01:04:13,990 --> 01:04:10,160

one's hydrogen but it's basically an

1690

01:04:15,190 --> 01:04:14,000

electrolysis process the way we split uh

1691

01:04:17,510 --> 01:04:15,200

oxygen

1692

01:04:20,549 --> 01:04:17,520

so we have the technology

1693

01:04:23,349 --> 01:04:20,559

to split that oxygen out of those rocks

1694

01:04:25,589 --> 01:04:23,359

you got to use power to do it and so

1695

01:04:27,430 --> 01:04:25,599

there's talk of nuclear reactors or

1696

01:04:30,150 --> 01:04:27,440

solar reactors and we can talk about

1697

01:04:32,710 --> 01:04:30,160

that a little later but basically if you

1698

01:04:34,470 --> 01:04:32,720

have a mechanism on

1699

01:04:36,069 --> 01:04:34,480

the moon that can

1700

01:04:37,990 --> 01:04:36,079

you know if you have equipment to do

1701

01:04:39,109 --> 01:04:38,000

that electrolysis you can free that

1702

01:04:40,870 --> 01:04:39,119

oxygen

1703

01:04:42,630 --> 01:04:40,880

and you can use it

1704

01:04:44,710 --> 01:04:42,640

and um

1705

01:04:46,950 --> 01:04:44,720

so how much is there

1706

01:04:49,270 --> 01:04:46,960

this study basically determined that the

1707

01:04:52,069 --> 01:04:49,280

real scoopable part right the the top

1708

01:04:55,270 --> 01:04:52,079

maybe 20 30 feet or whatever covering

1709

01:04:57,990 --> 01:04:55,280

the planet has enough oxygen embedded in

1710

01:04:59,750 --> 01:04:58,000

the rocks and dirt to support the entire

1711

01:05:01,589 --> 01:04:59,760

population of earth that's about eight

1712

01:05:04,390 --> 01:05:01,599

billion people right now

1713

01:05:07,029 --> 01:05:04,400

for a hundred thousand years

1714

01:05:09,349 --> 01:05:07,039

so the bottom line is if we're going to

1715

01:05:11,270 --> 01:05:09,359

colonize the moon

1716

01:05:13,270 --> 01:05:11,280

i won't talk about terraforming because

1717

01:05:15,029 --> 01:05:13,280

it's just so far in the future and so

1718

01:05:17,910 --> 01:05:15,039

unlikely but if we're going to live in

1719

01:05:19,750 --> 01:05:17,920

caverns if we're going to live in domes

1720

01:05:22,390 --> 01:05:19,760

if humans are going to move to the moon

1721

01:05:24,710 --> 01:05:22,400

and permanently inhabited they're going

1722

01:05:27,589 --> 01:05:24,720

to need oxygen and as it turns out

1723

01:05:30,549 --> 01:05:27,599

there's just tons of in there

1724

01:05:32,950 --> 01:05:30,559

so cool man nothing i ever would have

1725

01:05:34,789 --> 01:05:32,960

expected to be me either i didn't know

1726

01:05:36,710 --> 01:05:34,799

that right i told you i read science

1727

01:05:38,870 --> 01:05:36,720

articles my whole life and if you would

1728

01:05:40,309 --> 01:05:38,880

have asked me how much oxygen is in the

1729

01:05:42,309 --> 01:05:40,319

rocks on the moon i would just i don't

1730

01:05:44,230 --> 01:05:42,319

know what one percent or so you know

1731

01:05:46,549 --> 01:05:44,240

whatever stuck to it when it rolled

1732

01:05:48,230 --> 01:05:46,559

through but no it's almost half oxygen

1733

01:05:49,029 --> 01:05:48,240

there's so much they could pull out of

1734

01:05:51,510 --> 01:05:49,039

there

1735

01:05:54,150 --> 01:05:51,520

love it love it well rodrigo has a

1736

01:05:56,309 --> 01:05:54,160

question here for you um and i'll remind

1737

01:05:58,630 --> 01:05:56,319

everyone again super chat is open if you

1738

01:06:00,870 --> 01:05:58,640

want to ask chris a question and help

1739

01:06:03,029 --> 01:06:00,880

out the show you're more than welcome um

1740

01:06:05,270 --> 01:06:03,039

but we'll take your questions anyways

1741

01:06:07,190 --> 01:06:05,280

we're not a pay-to-play here but um

1742

01:06:08,870 --> 01:06:07,200

let's see here what are chris's ideas

1743

01:06:11,589 --> 01:06:08,880

about the probability for the existence

1744

01:06:15,109 --> 01:06:11,599

of oxygen-based atmospheres carbon-based

1745

01:06:16,710 --> 01:06:15,119

life and convergent evolution in planets

1746

01:06:19,589 --> 01:06:16,720

other than earth that's a loaded

1747

01:06:22,069 --> 01:06:19,599

question but do you have anything

1748

01:06:24,789 --> 01:06:22,079

humans have done a lot of study on life

1749

01:06:27,190 --> 01:06:24,799

and for the longest time we more or less

1750

01:06:29,510 --> 01:06:27,200

felt that the vast majority of life

1751

01:06:31,829 --> 01:06:29,520

would operate uh using oxygen as its

1752

01:06:34,630 --> 01:06:31,839

catalyst still does on earth we have

1753

01:06:37,430 --> 01:06:34,640

found these things termed extremophiles

1754

01:06:39,510 --> 01:06:37,440

uh that operate uh from other you know

1755

01:06:41,190 --> 01:06:39,520

that was the big discovery or in the uh

1756

01:06:43,270 --> 01:06:41,200

atmosphere of venus

1757

01:06:44,950 --> 01:06:43,280

was they found this area where they said

1758

01:06:46,630 --> 01:06:44,960

hey if there were if there were

1759

01:06:49,029 --> 01:06:46,640

creatures like we have on earth that

1760

01:06:51,109 --> 01:06:49,039

live on phosphine gas which is type of

1761

01:06:54,230 --> 01:06:51,119

phosphorus gas if they lived on that

1762

01:06:56,150 --> 01:06:54,240

rather than oxygen here's the perfect

1763

01:06:57,910 --> 01:06:56,160

warmth and radiation everything part of

1764

01:06:59,750 --> 01:06:57,920

venus's atmosphere they would live in

1765

01:07:01,510 --> 01:06:59,760

and so we looked there and sure enough

1766

01:07:03,990 --> 01:07:01,520

there were signs of phosphine gas there

1767

01:07:05,589 --> 01:07:04,000

doesn't mean that there's life there but

1768

01:07:06,789 --> 01:07:05,599

it definitely happened to match what

1769

01:07:08,630 --> 01:07:06,799

we're looking for

1770

01:07:10,950 --> 01:07:08,640

here's what i would tell

1771

01:07:13,109 --> 01:07:10,960

here's my thought about

1772

01:07:14,549 --> 01:07:13,119

uh concurrent evolution carbon-based

1773

01:07:16,470 --> 01:07:14,559

life those sort of things on other

1774

01:07:18,230 --> 01:07:16,480

planets

1775

01:07:19,829 --> 01:07:18,240

in science fiction

1776

01:07:21,589 --> 01:07:19,839

whether you're watching star trek or

1777

01:07:23,109 --> 01:07:21,599

stargate or any of the shows i grew up

1778

01:07:25,349 --> 01:07:23,119

watching and loving

1779

01:07:28,150 --> 01:07:25,359

uh humans go to other planets all the

1780

01:07:30,150 --> 01:07:28,160

time with no masks on and you know

1781

01:07:31,670 --> 01:07:30,160

everyone speaks english or whatever you

1782

01:07:33,589 --> 01:07:31,680

know but uh

1783

01:07:36,150 --> 01:07:33,599

and everyone's pretty much human i don't

1784

01:07:38,069 --> 01:07:36,160

know about the evolution side i have my

1785

01:07:41,109 --> 01:07:38,079

feelings that

1786

01:07:44,870 --> 01:07:41,119

physics constrains evolution in such a

1787

01:07:47,109 --> 01:07:44,880

way that i wouldn't be surprised if uh

1788

01:07:49,270 --> 01:07:47,119

complex life we saw on other planets

1789

01:07:50,789 --> 01:07:49,280

stood on two legs had something the

1790

01:07:52,789 --> 01:07:50,799

equivalent of hands and fingers that

1791

01:07:55,349 --> 01:07:52,799

they could manipulate their environment

1792

01:07:57,750 --> 01:07:55,359

with have bilateral symmetry like most

1793

01:08:01,029 --> 01:07:57,760

of the land and air based uh creatures

1794

01:08:03,190 --> 01:08:01,039

on the planet earth have so i i do think

1795

01:08:05,589 --> 01:08:03,200

we might see some sort of relatively

1796

01:08:07,029 --> 01:08:05,599

similar uh evolution i wouldn't be

1797

01:08:11,990 --> 01:08:07,039

surprised about that now you talk to

1798

01:08:17,829 --> 01:08:13,589

on earth

1799

01:08:20,229 --> 01:08:17,839

we are of buy-in from this planet i mean

1800

01:08:23,430 --> 01:08:20,239

your parents create you but the material

1801
01:08:24,390 --> 01:08:23,440
your mother ingests the food and drink

1802
01:08:27,669 --> 01:08:24,400
and everything

1803
01:08:29,669 --> 01:08:27,679
that is the raw material that builds you

1804
01:08:31,590 --> 01:08:29,679
and then when you're on your own the

1805
01:08:34,390 --> 01:08:31,600
material you ingest

1806
01:08:38,630 --> 01:08:34,400
you are from this earth we are all part

1807
01:08:41,510 --> 01:08:38,640
of it and there is a huge complex system

1808
01:08:43,910 --> 01:08:41,520
of microbiology operating inside our

1809
01:08:46,229 --> 01:08:43,920
body from our gut bacteria to

1810
01:08:49,749 --> 01:08:46,239
microbiology on our skin in our blood

1811
01:08:53,110 --> 01:08:49,759
you name it we are a big collection of

1812
01:08:55,749 --> 01:08:53,120
billions of little organisms all working

1813
01:08:57,910 --> 01:08:55,759

together create this human body

1814

01:09:00,470 --> 01:08:57,920

so even if we found a planet that had

1815

01:09:03,030 --> 01:09:00,480

the exact atmosphere as ours

1816

01:09:03,990 --> 01:09:03,040

have the exact atmospheric pressure as

1817

01:09:06,229 --> 01:09:04,000

ours

1818

01:09:08,390 --> 01:09:06,239

similar enough gravity similar enough

1819

01:09:10,070 --> 01:09:08,400

radiation had enough

1820

01:09:11,829 --> 01:09:10,080

of the components that you say man we

1821

01:09:13,030 --> 01:09:11,839

could go live there it's got trees it's

1822

01:09:15,110 --> 01:09:13,040

got everything

1823

01:09:16,870 --> 01:09:15,120

more likely than not the minute you took

1824

01:09:19,590 --> 01:09:16,880

your mask off even if the air was

1825

01:09:21,990 --> 01:09:19,600

breathable the microscopic organisms on

1826

01:09:23,829 --> 01:09:22,000

that plant planet would not jibe with

1827

01:09:25,269 --> 01:09:23,839

your body and you'd be dead in weeks

1828

01:09:26,950 --> 01:09:25,279

it's pretty much what happened to the

1829

01:09:29,669 --> 01:09:26,960

native americans when christopher

1830

01:09:31,669 --> 01:09:29,679

columbus came over and

1831

01:09:33,749 --> 01:09:31,679

the vast majority of people that were

1832

01:09:35,829 --> 01:09:33,759

existing on this continent their bodies

1833

01:09:38,070 --> 01:09:35,839

just weren't adapted to the microbiology

1834

01:09:40,709 --> 01:09:38,080

and diseases being brought to them from

1835

01:09:42,950 --> 01:09:40,719

settlers on the same planet so i'm

1836

01:09:45,510 --> 01:09:42,960

dubious about our ability to live on

1837

01:09:47,669 --> 01:09:45,520

another planet as we are do i think

1838

01:09:48,550 --> 01:09:47,679

there's an ability for science down the

1839

01:09:50,550 --> 01:09:48,560

road

1840

01:09:52,390 --> 01:09:50,560

to get to a point where there's a new

1841

01:09:53,910 --> 01:09:52,400

planet you want to live on and they go

1842

01:09:56,470 --> 01:09:53,920

yeah we got to put you through like a

1843

01:09:58,310 --> 01:09:56,480

year of inoculations and microbiology

1844

01:09:59,590 --> 01:09:58,320

treatments and stuff so your body can

1845

01:10:02,310 --> 01:09:59,600

live there but yeah once we're done

1846

01:10:04,229 --> 01:10:02,320

you'll be able to live there so yeah

1847

01:10:06,149 --> 01:10:04,239

maybe i'm not sure if that's the exact

1848

01:10:08,630 --> 01:10:06,159

question that was being asked but that's

1849

01:10:10,630 --> 01:10:08,640

my take on it i i love that i never

1850

01:10:13,030 --> 01:10:10,640

would have thought yeah like even if

1851

01:10:16,070 --> 01:10:13,040

everything was the same every the carbon

1852

01:10:18,189 --> 01:10:16,080

makeup everything about the planet um

1853

01:10:21,350 --> 01:10:18,199

that it's that minuscule

1854

01:10:25,270 --> 01:10:21,360

microscopic stuff that could really be

1855

01:10:29,510 --> 01:10:27,510

you have to take earth with you if you

1856

01:10:32,070 --> 01:10:29,520

want to be an earthling living somewhere

1857

01:10:34,229 --> 01:10:32,080

else whether it's in a habitat you know

1858

01:10:36,630 --> 01:10:34,239

in the habitat on the international

1859

01:10:38,229 --> 01:10:36,640

space station a habitat on the moon a

1860

01:10:40,229 --> 01:10:38,239

habitat on mars

1861

01:10:41,950 --> 01:10:40,239

we will essentially have to foster an

1862

01:10:44,790 --> 01:10:41,960

environment that has those

1863

01:10:47,510 --> 01:10:44,800

microorganisms so when we eat food we're

1864

01:10:49,910 --> 01:10:47,520

getting that bacteria that digests the

1865

01:10:51,510 --> 01:10:49,920

food the way you want to that works on

1866

01:10:53,669 --> 01:10:51,520

your blood and your brain and everything

1867

01:10:55,750 --> 01:10:53,679

else in your body so yeah whether we

1868

01:10:58,709 --> 01:10:55,760

like it or not we're connected to this

1869

01:11:00,709 --> 01:10:58,719

planet as biological beings

1870

01:11:01,910 --> 01:11:00,719

do you think we're from here chris do

1871

01:11:05,830 --> 01:11:01,920

you think we

1872

01:11:08,390 --> 01:11:05,840

from somewhere else i gotta ask i know

1873

01:11:10,070 --> 01:11:08,400

it's uh oh yeah no so i tell people this

1874

01:11:11,510 --> 01:11:10,080

all the time so there's a zero to one

1875

01:11:13,590 --> 01:11:11,520

argument and there's a one to now

1876

01:11:16,709 --> 01:11:13,600

argument so zero to one is what is the

1877

01:11:20,310 --> 01:11:16,719

origin of life and one to now is

1878

01:11:22,310 --> 01:11:20,320

microscopic organism evolving to us i'm

1879

01:11:25,110 --> 01:11:22,320

very comfortable with one to now i think

1880

01:11:27,669 --> 01:11:25,120

that evolution just is we see it

1881

01:11:29,030 --> 01:11:27,679

microbiology we see it with viruses we

1882

01:11:32,630 --> 01:11:29,040

see i mean

1883

01:11:34,709 --> 01:11:32,640

all dogs came from one wolf about 10 000

1884

01:11:36,630 --> 01:11:34,719

years ago and now look at all the

1885

01:11:39,350 --> 01:11:36,640

different dogs you have and that's just

1886

01:11:41,590 --> 01:11:39,360

evolution over 10 000 years of some

1887

01:11:45,510 --> 01:11:41,600

traits being selected other traits not

1888

01:11:47,830 --> 01:11:45,520

being selected uh things like uh lactose

1889

01:11:49,910 --> 01:11:47,840

intolerance things like that that we can

1890

01:11:52,709 --> 01:11:49,920

actually see where it came into our

1891

01:11:54,550 --> 01:11:52,719

genome and evolved over time so i'm very

1892

01:11:57,189 --> 01:11:54,560

comfortable with the idea

1893

01:11:59,270 --> 01:11:57,199

that everyday humans walking around uh

1894

01:12:01,990 --> 01:11:59,280

evolved from apes which evolved from

1895

01:12:03,990 --> 01:12:02,000

proto-apes which evolved from uh you

1896

01:12:05,830 --> 01:12:04,000

know uh

1897

01:12:08,310 --> 01:12:05,840

simple organ all the way back to that

1898

01:12:10,470 --> 01:12:08,320

single-celled organism now the idea

1899

01:12:12,630 --> 01:12:10,480

that's put out in the movie prometheus i

1900

01:12:15,590 --> 01:12:12,640

think it is where basically an alien

1901

01:12:17,430 --> 01:12:15,600

organism donated their dna as that

1902

01:12:20,950 --> 01:12:17,440

starting block

1903

01:12:24,229 --> 01:12:20,960

and that is the zero to the one the

1904

01:12:25,910 --> 01:12:24,239

inert planet of rock water and minerals

1905

01:12:28,870 --> 01:12:25,920

that has no life

1906

01:12:30,470 --> 01:12:28,880

to that first spark of life that zero

1907

01:12:33,270 --> 01:12:30,480

life to life

1908

01:12:35,110 --> 01:12:33,280

once you have life evolution just takes

1909

01:12:37,270 --> 01:12:35,120

over and life goes where it goes based

1910

01:12:38,950 --> 01:12:37,280

on environment in my opinion what i've

1911

01:12:41,750 --> 01:12:38,960

seen from science environmental

1912

01:12:44,709 --> 01:12:41,760

influences uh what you eat what you do

1913

01:12:47,510 --> 01:12:44,719

uh but for all forms of life

1914

01:12:48,470 --> 01:12:47,520

and that evolution takes place we see

1915

01:12:50,630 --> 01:12:48,480

uh

1916

01:12:52,310 --> 01:12:50,640

animals that are identical that we can

1917

01:12:53,990 --> 01:12:52,320

see tree squirrels that are virtually

1918

01:12:56,229 --> 01:12:54,000

genetically identical live in two

1919

01:12:58,470 --> 01:12:56,239

different habitats and over a couple of

1920

01:13:00,149 --> 01:12:58,480

hundred years these three squirrels can

1921

01:13:01,669 --> 01:13:00,159

only this type of nut and these ones

1922

01:13:03,910 --> 01:13:01,679

can't eat that type of nut or it makes

1923

01:13:06,310 --> 01:13:03,920

them sick or all these other just your

1924

01:13:08,870 --> 01:13:06,320

bodies constantly and biology is

1925

01:13:09,830 --> 01:13:08,880

constantly adapting so

1926

01:13:12,390 --> 01:13:09,840

um

1927

01:13:14,870 --> 01:13:12,400

who who who put the life here right like

1928

01:13:17,350 --> 01:13:14,880

was it god is it a simulation was it

1929

01:13:19,350 --> 01:13:17,360

aliens i don't know you know we still

1930

01:13:22,470 --> 01:13:19,360

haven't in a lab been able to take

1931

01:13:24,310 --> 01:13:22,480

lifeless matter and throw the right

1932

01:13:26,550 --> 01:13:24,320

amount of electricity and other stuff

1933

01:13:29,030 --> 01:13:26,560

and like dr frankenstein go okay we

1934

01:13:30,950 --> 01:13:29,040

created a living cell from non-living

1935

01:13:33,590 --> 01:13:30,960

material we just haven't done that yet

1936

01:13:35,830 --> 01:13:33,600

and we have had no success trying

1937

01:13:37,590 --> 01:13:35,840

but once you have something living

1938

01:13:39,669 --> 01:13:37,600

watching it compete in the environment

1939

01:13:42,229 --> 01:13:39,679

to gather resources to use energy

1940

01:13:44,390 --> 01:13:42,239

efficiently to replicate to create more

1941

01:13:46,790 --> 01:13:44,400

of itself and over time evolve to a more

1942

01:13:48,550 --> 01:13:46,800

sophisticated life form that's just

1943

01:13:51,590 --> 01:13:48,560

happens all day every day happens all

1944

01:13:53,110 --> 01:13:51,600

around us and i'm highly confident that

1945

01:13:55,510 --> 01:13:53,120

there's enough in the archaeological

1946

01:13:57,830 --> 01:13:55,520

record in the biological record you can

1947

01:13:59,590 --> 01:13:57,840

find dna in your own dna from fishes i

1948

01:14:01,510 --> 01:13:59,600

mean we can find stuff from the most

1949

01:14:03,830 --> 01:14:01,520

ancient of beings that just don't

1950

01:14:07,270 --> 01:14:03,840

express anymore because those aren't the

1951

01:14:09,590 --> 01:14:07,280

dna uh strands that are chosen by

1952

01:14:10,709 --> 01:14:09,600

you know biology to express themselves

1953

01:14:12,630 --> 01:14:10,719

so

1954

01:14:15,110 --> 01:14:12,640

interesting we are

1955

01:14:18,229 --> 01:14:15,120

again we are the greatest and biggest

1956

01:14:20,790 --> 01:14:18,239

reality competition show for all other

1957

01:14:23,189 --> 01:14:20,800

life out there in the universe i i love

1958

01:14:25,510 --> 01:14:23,199

that why wouldn't we be i'm a firm

1959

01:14:27,750 --> 01:14:25,520

believer that the fair my paradox has it

1960

01:14:29,430 --> 01:14:27,760

backwards that if there's intelligent

1961

01:14:31,430 --> 01:14:29,440

life that's even one minute more

1962

01:14:34,470 --> 01:14:31,440

advanced than us the last thing they

1963

01:14:37,030 --> 01:14:34,480

want to do is interact with us

1964

01:14:38,550 --> 01:14:37,040

and not for any weird safety humans

1965

01:14:40,870 --> 01:14:38,560

might blow us up although we are pretty

1966

01:14:43,510 --> 01:14:40,880

stupid and blow stuff up but

1967

01:14:46,709 --> 01:14:43,520

more from the sense of the most value we

1968

01:14:50,070 --> 01:14:46,719

offer is look at us look at this planet

1969

01:14:51,910 --> 01:14:50,080

and it's a scientific analysis the the

1970

01:14:53,110 --> 01:14:51,920

most value we would offer in intelligent

1971

01:14:57,030 --> 01:14:53,120

species

1972

01:14:59,110 --> 01:14:57,040

is going back in time and looking at a a

1973

01:15:01,669 --> 01:14:59,120

place in time where

1974

01:15:03,430 --> 01:15:01,679

200 years ago we had no electricity the

1975

01:15:04,550 --> 01:15:03,440

most sophisticated technology was like a

1976

01:15:06,790 --> 01:15:04,560

bicycle

1977

01:15:09,510 --> 01:15:06,800

and now we're flying around in space and

1978

01:15:11,910 --> 01:15:09,520

talking about a 20-year mission to alpha

1979

01:15:13,669 --> 01:15:11,920

centauri right so

1980

01:15:16,070 --> 01:15:13,679

this is the most interesting time to

1981

01:15:17,590 --> 01:15:16,080

watch humans and say hey do they maybe

1982

01:15:19,270 --> 01:15:17,600

it's just the textbook they're like oh

1983

01:15:20,950 --> 01:15:19,280

yeah just

1984

01:15:22,630 --> 01:15:20,960

blow themselves up so we're going to

1985

01:15:24,870 --> 01:15:22,640

keep watching until they blow themselves

1986

01:15:26,950 --> 01:15:24,880

up because that's interesting or

1987

01:15:30,070 --> 01:15:26,960

this is the point and we get past the

1988

01:15:32,990 --> 01:15:30,080

great filter and we end up as a

1989

01:15:35,189 --> 01:15:33,000

you know interstellar

1990

01:15:37,350 --> 01:15:35,199

non-warfaring modern

1991

01:15:39,510 --> 01:15:37,360

whatever species that is and that's my

1992

01:15:42,550 --> 01:15:39,520

star trek hope i'm not dystopian i'm

1993

01:15:45,590 --> 01:15:42,560

utopian i still think we can get there

1994

01:15:49,030 --> 01:15:45,600

love it man yeah let's keep our channel

1995

01:15:51,430 --> 01:15:49,040

on the screen for all out there for sure

1996

01:15:53,350 --> 01:15:51,440

well let's say hello to uh we got the

1997

01:15:55,110 --> 01:15:53,360

unidentified celebrity review that is

1998

01:15:58,070 --> 01:15:55,120

that good there's that good looking chap

1999

01:15:59,110 --> 01:15:58,080

he's talking about you not me

2000

01:16:01,270 --> 01:15:59,120

we got him

2001

01:16:03,590 --> 01:16:01,280

i'll be with him with mikey on thursday

2002

01:16:05,590 --> 01:16:03,600

on thursday awesome i'll be there i'll

2003

01:16:07,510 --> 01:16:05,600

be in the chat awesome awesome night

2004

01:16:09,910 --> 01:16:07,520

gazer says all the way back to dino

2005

01:16:11,270 --> 01:16:09,920

beavers good good shout out night gazer

2006

01:16:13,270 --> 01:16:11,280

to uh the uh

2007

01:16:15,669 --> 01:16:13,280

skinwalkers at the pentagon book that

2008

01:16:21,430 --> 01:16:15,679

just came up hey matthew riots here one

2009

01:16:26,390 --> 01:16:23,669

um let me see i think i got everyone oh

2010

01:16:28,390 --> 01:16:26,400

we actually have someone named uh mr han

2011

01:16:30,630 --> 01:16:28,400

solo i love that

2012

01:16:32,630 --> 01:16:30,640

i love it um hey rodrigo's got a good

2013

01:16:34,550 --> 01:16:32,640

question here again dune presents the

2014

01:16:36,550 --> 01:16:34,560

idea of folding space

2015

01:16:37,990 --> 01:16:36,560

and the navigator evolved humans who can

2016

01:16:40,149 --> 01:16:38,000

pilot the ship's

2017

01:16:42,229 --> 01:16:40,159

thought hyper advanced calculations does

2018

01:16:44,709 --> 01:16:42,239

chris see something like that in our

2019

01:16:46,709 --> 01:16:44,719

future interesting so rodrigo i wrote an

2020

01:16:49,270 --> 01:16:46,719

article for the debrief about two weeks

2021

01:16:52,310 --> 01:16:49,280

ago i think and i interviewed dr kevin

2022

01:16:54,149 --> 01:16:52,320

grazer and dr kevin grazer along with

2023

01:16:55,350 --> 01:16:54,159

being the consultant on movies like

2024

01:16:58,790 --> 01:16:55,360

gravity

2025

01:17:00,310 --> 01:16:58,800

and um a tv a number of science fiction

2026

01:17:01,270 --> 01:17:00,320

tv shows

2027

01:17:03,830 --> 01:17:01,280

um

2028

01:17:06,390 --> 01:17:03,840

he wrote a book or i'm sorry he edited a

2029

01:17:10,550 --> 01:17:06,400

book uh it's under his name as the

2030

01:17:12,470 --> 01:17:10,560

writer called the the science of doom

2031

01:17:14,310 --> 01:17:12,480

and what he did was he reached out to

2032

01:17:15,430 --> 01:17:14,320

scientists in all these different areas

2033

01:17:17,510 --> 01:17:15,440

and had them

2034

01:17:21,030 --> 01:17:17,520

basically they put a book together of

2035

01:17:22,390 --> 01:17:21,040

the sciences that are in that uh in that

2036

01:17:24,870 --> 01:17:22,400

book series

2037

01:17:27,110 --> 01:17:24,880

and so i went ahead

2038

01:17:28,550 --> 01:17:27,120

and i uh

2039

01:17:31,750 --> 01:17:28,560

i interviewed him

2040

01:17:34,149 --> 01:17:31,760

and i wrote about it and the very last

2041

01:17:35,910 --> 01:17:34,159

segment of that article i addressed

2042

01:17:37,590 --> 01:17:35,920

folding space

2043

01:17:39,830 --> 01:17:37,600

and he had a very interesting quote

2044

01:17:42,550 --> 01:17:39,840

where he said to me he said chris to me

2045

01:17:44,870 --> 01:17:42,560

folding space is exactly what albert

2046

01:17:47,110 --> 01:17:44,880

einstein was talking about when he was

2047

01:17:48,870 --> 01:17:47,120

talking about the idea of

2048

01:17:50,630 --> 01:17:48,880

uh

2049

01:17:53,750 --> 01:17:50,640

using gravity

2050

01:17:56,390 --> 01:17:53,760

to move space closer together so your

2051

01:17:57,669 --> 01:17:56,400

travel distance is a lot shorter

2052

01:17:58,630 --> 01:17:57,679

and

2053

01:18:00,630 --> 01:17:58,640

i i

2054

01:18:03,590 --> 01:18:00,640

basically in that article i said so if

2055

01:18:05,750 --> 01:18:03,600

you combine the idea of a remote viewer

2056

01:18:06,790 --> 01:18:05,760

of somebody who psychically has the

2057

01:18:09,669 --> 01:18:06,800

ability

2058

01:18:11,750 --> 01:18:09,679

if such a thing exists to envision a

2059

01:18:14,149 --> 01:18:11,760

remote location

2060

01:18:16,229 --> 01:18:14,159

and you have people in a ship that's

2061

01:18:18,870 --> 01:18:16,239

designed to get there

2062

01:18:21,750 --> 01:18:18,880

could you meld those two phenomena

2063

01:18:23,750 --> 01:18:21,760

together and come up with a dune style

2064

01:18:25,350 --> 01:18:23,760

folding space drive

2065

01:18:27,750 --> 01:18:25,360

i don't know that it's something on the

2066

01:18:30,790 --> 01:18:27,760

horizon i can't tell you that

2067

01:18:32,550 --> 01:18:30,800

warp drives in and of themself

2068

01:18:34,630 --> 01:18:32,560

is something that's being worked on by a

2069

01:18:37,189 --> 01:18:34,640

lot of different researchers at least in

2070

01:18:39,590 --> 01:18:37,199

theory and as everyone knows who's in my

2071

01:18:41,990 --> 01:18:39,600

uh twitter dms for the last month and a

2072

01:18:44,070 --> 01:18:42,000

half i have a big warp bubble story

2073

01:18:46,310 --> 01:18:44,080

coming out about that yeah

2074

01:18:49,030 --> 01:18:46,320

as far as folding space

2075

01:18:50,630 --> 01:18:49,040

uh go go look at what he's dr grazer

2076

01:18:51,990 --> 01:18:50,640

says in my article i have some good

2077

01:18:53,830 --> 01:18:52,000

quotes from him

2078

01:18:55,350 --> 01:18:53,840

and uh if you're really interested go

2079

01:18:57,990 --> 01:18:55,360

read his book because there's a whole

2080

01:18:59,830 --> 01:18:58,000

section by scientists uh pretty much

2081

01:19:02,630 --> 01:18:59,840

addressing that in a much more complex

2082

01:19:04,470 --> 01:19:02,640

way so for my personal feeling it's not

2083

01:19:06,149 --> 01:19:04,480

something that's right around the corner

2084

01:19:09,189 --> 01:19:06,159

but it is something that you could draw

2085

01:19:12,310 --> 01:19:09,199

a line to from warp technology and

2086

01:19:14,870 --> 01:19:12,320

remote viewing and see that it's not

2087

01:19:17,750 --> 01:19:14,880

the most unrealistic

2088

01:19:20,070 --> 01:19:17,760

if somewhat unlikely approach

2089

01:19:21,030 --> 01:19:20,080

interesting i love that bringing kind of

2090

01:19:23,430 --> 01:19:21,040

the uh

2091

01:19:25,910 --> 01:19:23,440

you know the paranormal into

2092

01:19:27,510 --> 01:19:25,920

the science or pseudoscience if you want

2093

01:19:29,910 --> 01:19:27,520

to look at it that way but you know what

2094

01:19:35,590 --> 01:19:32,229

yeah when frank herbert wrote dune and

2095

01:19:37,910 --> 01:19:35,600

he talks about that spice that magical

2096

01:19:39,910 --> 01:19:37,920

chemical that lets the navigators do

2097

01:19:42,149 --> 01:19:39,920

what they do that lets people see in the

2098

01:19:44,149 --> 01:19:42,159

future things like that he was really

2099

01:19:45,830 --> 01:19:44,159

like interested in writing about

2100

01:19:48,149 --> 01:19:45,840

mushrooms psychedelic mushrooms that

2101
01:19:49,750 --> 01:19:48,159
were really popular in the 60s and there

2102
01:19:51,510 --> 01:19:49,760
was all i haven't read it but there was

2103
01:19:53,510 --> 01:19:51,520
a whole feature story on the debrief one

2104
01:19:56,229 --> 01:19:53,520
of the other writers wrote about that

2105
01:19:58,149 --> 01:19:56,239
and it basically said uh herbert was

2106
01:19:59,510 --> 01:19:58,159
talking about mushrooms and the reason i

2107
01:20:01,270 --> 01:19:59,520
clarify i haven't read it because i

2108
01:20:03,110 --> 01:20:01,280
don't know if he was taking him or he

2109
01:20:05,189 --> 01:20:03,120
was writing about people taking them and

2110
01:20:06,950 --> 01:20:05,199
i don't want to i don't want to be the

2111
01:20:09,270 --> 01:20:06,960
name of my favorite science fiction

2112
01:20:11,669 --> 01:20:09,280
writers could be both we we don't know

2113
01:20:13,110 --> 01:20:11,679

could be both well hey han mr han solo

2114

01:20:16,950 --> 01:20:13,120

says speaking of blowing stuff up can i

2115

01:20:19,990 --> 01:20:16,960

have my blaster pack chris right exactly

2116

01:20:22,229 --> 01:20:20,000

that's right i love that um well let's

2117

01:20:24,790 --> 01:20:22,239

move on oh sorry go ahead i'm fired

2118

01:20:27,110 --> 01:20:24,800

first just on fire oh you're one of

2119

01:20:29,110 --> 01:20:27,120

those are you i'm just saying i was in

2120

01:20:30,790 --> 01:20:29,120

the theater man i thought that was the

2121

01:20:33,110 --> 01:20:30,800

coolest thing ever that he fired first

2122

01:20:35,030 --> 01:20:33,120

it was like the the first hero antihero

2123

01:20:36,709 --> 01:20:35,040

he was actually just a little bit of bad

2124

01:20:39,030 --> 01:20:36,719

guy in that good guy

2125

01:20:41,430 --> 01:20:39,040

yeah yeah have they ever truly

2126

01:20:44,830 --> 01:20:41,440

determined that has it been like

2127

01:20:46,870 --> 01:20:44,840

um oh yeah i mean come forward and said

2128

01:20:49,189 --> 01:20:46,880

yes there's a whole controversy with

2129

01:20:51,110 --> 01:20:49,199

george lucas in those first three movies

2130

01:20:53,590 --> 01:20:51,120

but basically when he went back and he

2131

01:20:55,510 --> 01:20:53,600

re-edited them all and he put in the

2132

01:20:58,470 --> 01:20:55,520

video graphics and he potentially

2133

01:21:00,149 --> 01:20:58,480

changed that scene he added the episode

2134

01:21:02,149 --> 01:21:00,159

four thing in the opening credits it

2135

01:21:04,629 --> 01:21:02,159

used to just say star wars the the

2136

01:21:07,669 --> 01:21:04,639

episode four new hope wasn't up there he

2137

01:21:09,590 --> 01:21:07,679

added a lot of that so the um i want to

2138

01:21:11,510 --> 01:21:09,600

get this right i think it's the national

2139

01:21:13,189 --> 01:21:11,520

film archive or the library of congress

2140

01:21:15,189 --> 01:21:13,199

it might be the national film archive

2141

01:21:17,990 --> 01:21:15,199

within the library of congress

2142

01:21:20,870 --> 01:21:18,000

um has asked him for copies of the first

2143

01:21:22,629 --> 01:21:20,880

three movies because what they do is

2144

01:21:24,709 --> 01:21:22,639

and you get you give them the actual

2145

01:21:27,590 --> 01:21:24,719

real like ones that ran in the theater

2146

01:21:29,030 --> 01:21:27,600

the physical film in the canister and

2147

01:21:30,470 --> 01:21:29,040

you know obviously there were thousands

2148

01:21:32,390 --> 01:21:30,480

of those that went out to theaters

2149

01:21:33,990 --> 01:21:32,400

around the country and around the world

2150

01:21:35,910 --> 01:21:34,000

and they say as the

2151
01:21:37,910 --> 01:21:35,920
as the filmmaker you have to provide us

2152
01:21:40,709 --> 01:21:37,920
one of those and we'll put them in the

2153
01:21:41,830 --> 01:21:40,719
archive to keep a permanent copy and he

2154
01:21:43,830 --> 01:21:41,840
said no

2155
01:21:46,550 --> 01:21:43,840
because he doesn't want to provide those

2156
01:21:49,270 --> 01:21:46,560
original films he wants history to

2157
01:21:51,430 --> 01:21:49,280
remember the the edited ones he did

2158
01:21:53,350 --> 01:21:51,440
later that have the silly characters

2159
01:21:55,510 --> 01:21:53,360
added in have the scene with job the hut

2160
01:21:57,910 --> 01:21:55,520
put back in the original all of these

2161
01:21:59,590 --> 01:21:57,920
things that he added in it depends on

2162
01:22:01,830 --> 01:21:59,600
your taste he always felt like they were

2163
01:22:03,590 --> 01:22:01,840

made for kids and i always tell people i

2164

01:22:06,790 --> 01:22:03,600

fell in love with the movies as a little

2165

01:22:08,470 --> 01:22:06,800

kid so i can't argue that but it does

2166

01:22:10,550 --> 01:22:08,480

feel like uh

2167

01:22:12,390 --> 01:22:10,560

it does feel like you know the original

2168

01:22:14,149 --> 01:22:12,400

artist went back and painted a mustache

2169

01:22:16,310 --> 01:22:14,159

on the mona lisa and said ah it's

2170

01:22:18,709 --> 01:22:16,320

finally finished

2171

01:22:20,629 --> 01:22:18,719

exactly exactly yeah there is some

2172

01:22:22,709 --> 01:22:20,639

controversy about that for sure he will

2173

01:22:25,350 --> 01:22:22,719

not provide those original copies there

2174

01:22:26,790 --> 01:22:25,360

is some for people that uh stream stuff

2175

01:22:29,510 --> 01:22:26,800

there used to be a copy running around

2176
01:22:31,350 --> 01:22:29,520
online a number of years back where some

2177
01:22:33,030 --> 01:22:31,360
guy took all the original

2178
01:22:35,189 --> 01:22:33,040
blu-ray and

2179
01:22:37,270 --> 01:22:35,199
laserdisc or whatever and kind of made

2180
01:22:39,669 --> 01:22:37,280
an original one but uh

2181
01:22:41,590 --> 01:22:39,679
yeah lucas people have too much time

2182
01:22:44,070 --> 01:22:41,600
fought that truth from being out there

2183
01:22:45,990 --> 01:22:44,080
that han fired first

2184
01:22:48,310 --> 01:22:46,000
that's fair enough that's fair enough

2185
01:22:50,149 --> 01:22:48,320
well uh i mean i had a gun pointed at

2186
01:22:52,310 --> 01:22:50,159
him i don't know but dude

2187
01:22:55,110 --> 01:22:52,320
it is something if there's a gun pointed

2188
01:22:57,030 --> 01:22:55,120

at you and somebody's telling you uh the

2189

01:22:59,110 --> 01:22:57,040

party's over buddy i don't know that

2190

01:23:00,950 --> 01:22:59,120

firing first isn't still self-defense i

2191

01:23:03,510 --> 01:23:00,960

mean i don't mean to get all political

2192

01:23:05,750 --> 01:23:03,520

in the star wars pyramid

2193

01:23:07,750 --> 01:23:05,760

hey hey they went political in those

2194

01:23:09,910 --> 01:23:07,760

prequels man which have really grown on

2195

01:23:11,750 --> 01:23:09,920

me yeah prequels have definitely grown

2196

01:23:12,790 --> 01:23:11,760

on me first yeah they take time because

2197

01:23:15,590 --> 01:23:12,800

you're you're seeing something

2198

01:23:16,470 --> 01:23:15,600

completely different but yeah i i've

2199

01:23:18,470 --> 01:23:16,480

i've

2200

01:23:21,189 --> 01:23:18,480

i moved into the zone of liking all the

2201
01:23:22,470 --> 01:23:21,199
star wars movies at some level uh for

2202
01:23:24,310 --> 01:23:22,480
themselves

2203
01:23:26,709 --> 01:23:24,320
really found myself liking rogue one

2204
01:23:29,110 --> 01:23:26,719
more than i thought after all my god

2205
01:23:30,870 --> 01:23:29,120
dude i love that movie so much so

2206
01:23:33,510 --> 01:23:30,880
underrated yeah i didn't love it the

2207
01:23:35,270 --> 01:23:33,520
first time i saw it and yeah

2208
01:23:37,590 --> 01:23:35,280
but yeah that lasts

2209
01:23:39,669 --> 01:23:37,600
one of those last scenes with vader

2210
01:23:40,790 --> 01:23:39,679
again spoiler alert if you haven't seen

2211
01:23:43,189 --> 01:23:40,800
rogue one

2212
01:23:45,350 --> 01:23:43,199
vader at his most badass are you always

2213
01:23:47,350 --> 01:23:45,360

amazing amazing oh that's much like

2214

01:23:49,430 --> 01:23:47,360

speaking of george lucas ryan when he

2215

01:23:51,990 --> 01:23:49,440

did those prequels

2216

01:23:55,030 --> 01:23:52,000

people always said well hey how are you

2217

01:23:57,510 --> 01:23:55,040

know the three prequels kind of ended

2218

01:24:00,149 --> 01:23:57,520

with him becoming vader right like he's

2219

01:24:02,870 --> 01:24:00,159

darth vader kind of the end of uh what

2220

01:24:04,709 --> 01:24:02,880

is that the revenge of the sith

2221

01:24:06,470 --> 01:24:04,719

right and a lot of people were

2222

01:24:08,310 --> 01:24:06,480

complaining and i seem to remember a

2223

01:24:10,709 --> 01:24:08,320

quote from lucas at the time saying

2224

01:24:12,629 --> 01:24:10,719

something to the effect of well for all

2225

01:24:15,030 --> 01:24:12,639

of you that wanted to see

2226

01:24:17,189 --> 01:24:15,040

uh darth vader wreaking havoc on the

2227

01:24:18,629 --> 01:24:17,199

galaxy and running through killing

2228

01:24:20,070 --> 01:24:18,639

people with the power of the force

2229

01:24:21,830 --> 01:24:20,080

that's not the type of movie i'm

2230

01:24:23,750 --> 01:24:21,840

interested in making and i remember

2231

01:24:25,830 --> 01:24:23,760

thinking at the time yeah somebody will

2232

01:24:27,430 --> 01:24:25,840

and sure enough

2233

01:24:29,910 --> 01:24:27,440

we see darth vader kicking a little

2234

01:24:32,390 --> 01:24:29,920

button it's kind of cool i love it i

2235

01:24:34,790 --> 01:24:32,400

love it um matthew riott with the super

2236

01:24:37,270 --> 01:24:34,800

chat both of you discord he wants us to

2237

01:24:38,870 --> 01:24:37,280

join discord i'm really late to the game

2238

01:24:40,790 --> 01:24:38,880

on that stuff i still don't know how it

2239

01:24:42,229 --> 01:24:40,800

works matthew i'm gonna reach out to you

2240

01:24:44,229 --> 01:24:42,239

after this show buddy and you're gonna

2241

01:24:45,910 --> 01:24:44,239

get me on discord because i need to be

2242

01:24:47,910 --> 01:24:45,920

there chris you need to be there yeah

2243

01:24:49,189 --> 01:24:47,920

the debriefing

2244

01:24:51,270 --> 01:24:49,199

i'm just very

2245

01:24:53,270 --> 01:24:51,280

with the ones i joined that's all i'm

2246

01:24:54,790 --> 01:24:53,280

the old man in the room then no right

2247

01:24:56,950 --> 01:24:54,800

knowing what discord well we were on

2248

01:24:58,470 --> 01:24:56,960

this group chat at work at the debris if

2249

01:25:01,030 --> 01:24:58,480

you remember we all started on something

2250

01:25:02,310 --> 01:25:01,040

like a signal yeah and that all got

2251

01:25:04,550 --> 01:25:02,320

dumped and somewhere along the way

2252

01:25:07,189 --> 01:25:04,560

christina gomez came in and said hey

2253

01:25:09,669 --> 01:25:07,199

dummies discord's free and we can have a

2254

01:25:12,550 --> 01:25:09,679

private meeting room there so

2255

01:25:14,070 --> 01:25:12,560

yep yep yep and we haven't been waiting

2256

01:25:15,990 --> 01:25:14,080

for you to show up

2257

01:25:17,430 --> 01:25:16,000

i'm coming i'm on my way i know i

2258

01:25:18,709 --> 01:25:17,440

haven't written at the debrief in a

2259

01:25:19,990 --> 01:25:18,719

while but

2260

01:25:23,750 --> 01:25:20,000

i will say

2261

01:25:25,510 --> 01:25:23,760

i wrote a huge piece for the debrief

2262

01:25:28,470 --> 01:25:25,520

that hopefully

2263

01:25:31,030 --> 01:25:28,480

is going to get a um special unveiling

2264

01:25:33,430 --> 01:25:31,040

in a top secret project yet to be

2265

01:25:36,149 --> 01:25:33,440

announced by the debris yes uh

2266

01:25:38,470 --> 01:25:36,159

uh yes mr mr hanks

2267

01:25:45,110 --> 01:25:38,480

has passed along that he has received

2268

01:25:49,110 --> 01:25:47,430

yes top secret project coming earlier

2269

01:25:51,270 --> 01:25:49,120

you're coming your way at the debrief

2270

01:25:53,350 --> 01:25:51,280

2022. i've been working on this article

2271

01:25:55,270 --> 01:25:53,360

for over a year i've pissed off some

2272

01:25:57,590 --> 01:25:55,280

people at the defense department and the

2273

01:26:00,550 --> 01:25:57,600

navy but um it's gonna be worth it it's

2274

01:26:01,430 --> 01:26:00,560

gonna be worth it let's move on my man

2275

01:26:02,709 --> 01:26:01,440

to

2276

01:26:06,070 --> 01:26:02,719

nuclear

2277

01:26:09,110 --> 01:26:06,080

reactors nasa wants patel to put a

2278

01:26:11,669 --> 01:26:09,120

nuclear reactor on the moon this is

2279

01:26:14,470 --> 01:26:11,679

terrifying tell me what's going on chris

2280

01:26:16,870 --> 01:26:14,480

oh so there was a space treaty back in

2281

01:26:18,950 --> 01:26:16,880

the 70s 80s whenever it was that pretty

2282

01:26:20,310 --> 01:26:18,960

much said we can't put nuclear weapons

2283

01:26:22,390 --> 01:26:20,320

in space

2284

01:26:25,750 --> 01:26:22,400

but it didn't eliminate the idea of

2285

01:26:28,310 --> 01:26:25,760

nuclear reactors and there have been

2286

01:26:30,390 --> 01:26:28,320

various satellites and other things very

2287

01:26:32,790 --> 01:26:30,400

few but over the years

2288

01:26:35,270 --> 01:26:32,800

that have included nuclear fuel with

2289

01:26:38,470 --> 01:26:35,280

some sort of another this is the first

2290

01:26:40,629 --> 01:26:38,480

real talk of putting them on mars or

2291

01:26:47,990 --> 01:26:40,639

putting them on the moon yeah there's

2292

01:26:53,030 --> 01:26:51,430

and said look if we're going to colonize

2293

01:26:54,470 --> 01:26:53,040

the moon and we're going to colonize

2294

01:26:57,430 --> 01:26:54,480

mars

2295

01:26:59,750 --> 01:26:57,440

shipping 8 million solar panels up there

2296

01:27:02,390 --> 01:26:59,760

to gather that bleak sunlight coming in

2297

01:27:04,390 --> 01:27:02,400

ain't going to do it we're going to need

2298

01:27:06,070 --> 01:27:04,400

resident power we're gonna need our own

2299

01:27:08,870 --> 01:27:06,080

power and

2300

01:27:11,189 --> 01:27:08,880

pretty much every other form of power is

2301
01:27:14,070 --> 01:27:11,199
just doesn't crank enough juice out for

2302
01:27:16,390 --> 01:27:14,080
the weight even the densest power rocket

2303
01:27:18,550 --> 01:27:16,400
fuels and things you just would have to

2304
01:27:21,350 --> 01:27:18,560
ship tons and tons and tons of it to the

2305
01:27:23,669 --> 01:27:21,360
moon to run any sort of habitat but if

2306
01:27:25,590 --> 01:27:23,679
you have a couple of nuclear generators

2307
01:27:28,470 --> 01:27:25,600
there i mean those things are run

2308
01:27:30,629 --> 01:27:28,480
forever and uh once everyone on mars

2309
01:27:34,390 --> 01:27:30,639
dies those things will run forever too

2310
01:27:36,550 --> 01:27:34,400
just like fukushima right so um they

2311
01:27:38,870 --> 01:27:36,560
reached out to battelle and said figure

2312
01:27:41,430 --> 01:27:38,880
it out and so what battelle did is they

2313
01:27:44,149 --> 01:27:41,440

put out an rfp a request for a proposal

2314

01:27:46,390 --> 01:27:44,159

to the industry and said

2315

01:27:48,470 --> 01:27:46,400

submit your ideas we're open we want to

2316

01:27:49,430 --> 01:27:48,480

put a nuclear reactor on the moon or on

2317

01:27:51,750 --> 01:27:49,440

mars

2318

01:27:53,910 --> 01:27:51,760

we know it's a dicey proposition we know

2319

01:27:55,669 --> 01:27:53,920

there's a lot of danger involved

2320

01:27:57,910 --> 01:27:55,679

we're open we're looking for ideas and

2321

01:27:59,350 --> 01:27:57,920

literally it was an open rfp i mean ryan

2322

01:28:01,030 --> 01:27:59,360

if you wanted to

2323

01:28:03,030 --> 01:28:01,040

you could submit one that says i have an

2324

01:28:05,590 --> 01:28:03,040

idea for a nuclear reactor that runs on

2325

01:28:06,950 --> 01:28:05,600

uh you know bubble gum or whatever yeah

2326

01:28:09,510 --> 01:28:06,960

if it works

2327

01:28:11,350 --> 01:28:09,520

uh yeah yeah you could submit that idea

2328

01:28:13,590 --> 01:28:11,360

so there would

2329

01:28:15,189 --> 01:28:13,600

mine would run on beer my man for sure

2330

01:28:17,510 --> 01:28:15,199

that's wrong

2331

01:28:19,510 --> 01:28:17,520

that runs on beer it's be like how come

2332

01:28:21,350 --> 01:28:19,520

the reactor isn't working and ryan would

2333

01:28:24,070 --> 01:28:21,360

be in the corner surrounded by bottles

2334

01:28:25,990 --> 01:28:24,080

going i'm nuts i don't know when we got

2335

01:28:28,229 --> 01:28:26,000

here right

2336

01:28:30,709 --> 01:28:28,239

don't worry about it don't worry about

2337

01:28:33,189 --> 01:28:30,719

it what's the big deal

2338

01:28:36,149 --> 01:28:33,199

i love you guys who cares i love you

2339

01:28:38,550 --> 01:28:36,159

guys i love the moon yep so that is that

2340

01:28:39,830 --> 01:28:38,560

was a what i call a one story story i'll

2341

01:28:41,590 --> 01:28:39,840

tell my wife and sugar what are you

2342

01:28:43,910 --> 01:28:41,600

writing and i say it's a one story story

2343

01:28:45,590 --> 01:28:43,920

and the story is they put out a request

2344

01:28:47,669 --> 01:28:45,600

for these reactors

2345

01:28:48,470 --> 01:28:47,679

what they're gonna get back

2346

01:28:51,030 --> 01:28:48,480

what

2347

01:28:52,790 --> 01:28:51,040

breakthrough ideas i mean nuclear actors

2348

01:28:55,510 --> 01:28:52,800

are pretty for better words pretty

2349

01:28:58,310 --> 01:28:55,520

straightforward technology so

2350

01:28:59,990 --> 01:28:58,320

what they're hoping to find what ideas i

2351

01:29:02,310 --> 01:29:00,000

don't know but i can tell you i talk to

2352

01:29:04,390 --> 01:29:02,320

people working on fusion reactors and

2353

01:29:07,030 --> 01:29:04,400

fusion science all the time because

2354

01:29:08,870 --> 01:29:07,040

that's so cutting edge and they are

2355

01:29:11,270 --> 01:29:08,880

constantly coming up with new methods

2356

01:29:13,830 --> 01:29:11,280

and new ideas and new approaches so may

2357

01:29:15,669 --> 01:29:13,840

very well be the case in nuclear fission

2358

01:29:18,149 --> 01:29:15,679

reactors which are

2359

01:29:19,750 --> 01:29:18,159

typical nuclear reactors that yeah may

2360

01:29:21,910 --> 01:29:19,760

be the case that they're looking for

2361

01:29:23,590 --> 01:29:21,920

maybe they'll look at thorium reactors

2362

01:29:26,229 --> 01:29:23,600

using

2363

01:29:28,709 --> 01:29:26,239

molten salts that don't have nuclear

2364

01:29:30,390 --> 01:29:28,719

spills a little more complex to run but

2365

01:29:31,830 --> 01:29:30,400

there's some technologies out there that

2366

01:29:34,629 --> 01:29:31,840

i'm definitely sure they're going to

2367

01:29:36,709 --> 01:29:34,639

look at and uh

2368

01:29:39,350 --> 01:29:36,719

what they'll come up with i don't know

2369

01:29:41,030 --> 01:29:39,360

but yeah if we have habitats permanent

2370

01:29:43,350 --> 01:29:41,040

habitats on the moon and permanent

2371

01:29:45,510 --> 01:29:43,360

habitats on mars and they have anything

2372

01:29:47,510 --> 01:29:45,520

more than like a little iss crew with

2373

01:29:49,590 --> 01:29:47,520

two three four five people at a time but

2374

01:29:51,910 --> 01:29:49,600

they actually grow up

2375

01:29:54,070 --> 01:29:51,920

they will more than likely be powered by

2376

01:29:56,950 --> 01:29:54,080

a nuclear reactor

2377

01:29:59,510 --> 01:29:56,960

interesting yeah all right hey man we

2378

01:30:02,790 --> 01:29:59,520

got nuclear reactors we got oxygen we're

2379

01:30:04,950 --> 01:30:02,800

on our way it's right right totally we

2380

01:30:07,910 --> 01:30:04,960

can live on the moon man i mean there's

2381

01:30:10,070 --> 01:30:07,920

cosmic rays and radiation and we don't

2382

01:30:12,629 --> 01:30:10,080

know if we can survive in one-sixth

2383

01:30:14,629 --> 01:30:12,639

earth gravity for very long we know that

2384

01:30:17,189 --> 01:30:14,639

astronauts that have been on the iss for

2385

01:30:19,110 --> 01:30:17,199

a year in zero gravity have all kinds of

2386

01:30:20,390 --> 01:30:19,120

health effects from it we know we sent

2387

01:30:21,830 --> 01:30:20,400

the twin brother

2388

01:30:24,550 --> 01:30:21,840

of the one up there and they compared

2389

01:30:26,310 --> 01:30:24,560

their biology uh the one twin that's the

2390

01:30:27,990 --> 01:30:26,320

astronaut went to the iss for a year and

2391

01:30:30,550 --> 01:30:28,000

the other one didn't i remember their

2392

01:30:32,709 --> 01:30:30,560

names but uh yeah there's swelling of

2393

01:30:35,350 --> 01:30:32,719

the eyes and effects of the blood

2394

01:30:38,790 --> 01:30:35,360

effects to the the size of the brain

2395

01:30:41,270 --> 01:30:38,800

uh effects to muscle atrophy uh affects

2396

01:30:43,830 --> 01:30:41,280

the function of organs like the kidney

2397

01:30:46,229 --> 01:30:43,840

and pancreas i mean all kinds of stuff

2398

01:30:48,310 --> 01:30:46,239

because again as i said we're earthlings

2399

01:30:50,310 --> 01:30:48,320

we're meant to be here and we're meant

2400

01:30:53,430 --> 01:30:50,320

to be with this exact amount of gravity

2401
01:30:54,870 --> 01:30:53,440
too so we don't know living on the moon

2402
01:30:56,870 --> 01:30:54,880
i can tell you if there's multiple

2403
01:30:59,350 --> 01:30:56,880
generations of people living on the moon

2404
01:31:01,669 --> 01:30:59,360
and they do survive and they're able to

2405
01:31:03,830 --> 01:31:01,679
replicate and prosper i wouldn't be the

2406
01:31:06,470 --> 01:31:03,840
least bit surprised if they all end up

2407
01:31:08,950 --> 01:31:06,480
way thin and way light because of the

2408
01:31:10,550 --> 01:31:08,960
lighter gravity environment with only a

2409
01:31:11,830 --> 01:31:10,560
hand within only a handful of

2410
01:31:12,709 --> 01:31:11,840
generations

2411
01:31:15,189 --> 01:31:12,719
so

2412
01:31:17,430 --> 01:31:15,199
hey man i could use that diet for sure

2413
01:31:19,590 --> 01:31:17,440

yeah right sent me to the lost

2414

01:31:22,470 --> 01:31:19,600

six months yeah

2415

01:31:24,229 --> 01:31:22,480

let's do it let's do it well okay man so

2416

01:31:26,709 --> 01:31:24,239

this next one we're gonna move a little

2417

01:31:28,629 --> 01:31:26,719

bit more into the lighter realm of some

2418

01:31:30,149 --> 01:31:28,639

of the science stories here you've

2419

01:31:32,070 --> 01:31:30,159

written over at the debrief and this one

2420

01:31:34,550 --> 01:31:32,080

really caught my eye because this is a

2421

01:31:38,709 --> 01:31:34,560

big thing here in new york i know it is

2422

01:31:41,510 --> 01:31:38,719

on like instagram and youtube um

2423

01:31:44,310 --> 01:31:41,520

astrology it's like this big thing it's

2424

01:31:47,350 --> 01:31:44,320

become a you know everyone's doing it

2425

01:31:49,590 --> 01:31:47,360

everyone's a part of it um and uh you

2426
01:31:51,430 --> 01:31:49,600
wrote this article with one of the best

2427
01:31:54,629 --> 01:31:51,440
titles i've ever heard astrology

2428
01:31:56,709 --> 01:31:54,639
believers less intelligent and more

2429
01:31:59,430 --> 01:31:56,719
narcissistic i know that's gonna piss

2430
01:32:02,629 --> 01:31:59,440
off some people probably watching this

2431
01:32:04,870 --> 01:32:02,639
and i'm sure it has man so tell me what

2432
01:32:07,590 --> 01:32:04,880
prompted you to write about this and

2433
01:32:09,189 --> 01:32:07,600
what do you think about astrology and is

2434
01:32:11,270 --> 01:32:09,199
this so i think it's always a push and

2435
01:32:13,270 --> 01:32:11,280
pull with the debrief where we're trying

2436
01:32:15,990 --> 01:32:13,280
to be as scientifically accurate as we

2437
01:32:17,910 --> 01:32:16,000
can but we're constantly reporting on

2438
01:32:20,870 --> 01:32:17,920

fringe science i'm reporting on guys

2439

01:32:23,189 --> 01:32:20,880

with fringe theories and physics fringe

2440

01:32:27,510 --> 01:32:23,199

theories and warp propulsion

2441

01:32:29,910 --> 01:32:27,520

all kinds of areas so i'm really careful

2442

01:32:33,030 --> 01:32:29,920

when i write something about something

2443

01:32:35,910 --> 01:32:33,040

that that is labeled a pseudo science

2444

01:32:39,189 --> 01:32:35,920

which is what the researchers labeled

2445

01:32:41,430 --> 01:32:39,199

astrology in the study i talked about

2446

01:32:43,189 --> 01:32:41,440

in this particular case

2447

01:32:45,669 --> 01:32:43,199

what they did was really simple they

2448

01:32:47,669 --> 01:32:45,679

created a questionnaire they put it out

2449

01:32:49,669 --> 01:32:47,679

on uh they looked for volunteers on

2450

01:32:51,830 --> 01:32:49,679

facebook to respond to it

2451

01:32:54,470 --> 01:32:51,840

and it had a bunch of questions

2452

01:32:56,550 --> 01:32:54,480

and the questions were uh

2453

01:32:58,470 --> 01:32:56,560

a to determine whether or not you

2454

01:33:01,750 --> 01:32:58,480

believe in astrology

2455

01:33:03,669 --> 01:33:01,760

um to determine your the big personality

2456

01:33:05,750 --> 01:33:03,679

characteristics that are part of a lot

2457

01:33:08,790 --> 01:33:05,760

of personality tests now

2458

01:33:10,550 --> 01:33:08,800

uh to determine narcissism

2459

01:33:12,550 --> 01:33:10,560

and then to determine a level of

2460

01:33:14,709 --> 01:33:12,560

intelligence

2461

01:33:17,350 --> 01:33:14,719

so they were just trying to get like us

2462

01:33:18,870 --> 01:33:17,360

a breakdown of people that were into

2463

01:33:20,709 --> 01:33:18,880

astrology

2464

01:33:22,550 --> 01:33:20,719

for their personality all their

2465

01:33:25,270 --> 01:33:22,560

different personality traits

2466

01:33:27,270 --> 01:33:25,280

as well as whether they were more or

2467

01:33:28,709 --> 01:33:27,280

less open-minded whether they were more

2468

01:33:31,270 --> 01:33:28,719

or less likely to believe in

2469

01:33:34,149 --> 01:33:31,280

pseudoscience or conspiracy theories and

2470

01:33:36,310 --> 01:33:34,159

and just see where this falls down

2471

01:33:37,990 --> 01:33:36,320

and unfortunately for people that

2472

01:33:41,590 --> 01:33:38,000

subscribe to it and follow it and

2473

01:33:43,830 --> 01:33:41,600

believe in it um there was a strong the

2474

01:33:46,310 --> 01:33:43,840

single strongest correlation in the

2475

01:33:49,110 --> 01:33:46,320

study with the belief in astrology was

2476

01:33:50,950 --> 01:33:49,120

narcissism now keep in mind just the

2477

01:33:52,870 --> 01:33:50,960

simple idea of

2478

01:33:55,750 --> 01:33:52,880

the the planets the movement of the

2479

01:33:57,990 --> 01:33:55,760

planets the movement of the stars affect

2480

01:34:00,709 --> 01:33:58,000

my personal life

2481

01:34:02,790 --> 01:34:00,719

and my personal well-being

2482

01:34:05,750 --> 01:34:02,800

simply could just that could be what

2483

01:34:07,990 --> 01:34:05,760

that's reflecting of it's just people

2484

01:34:08,790 --> 01:34:08,000

that think that are likely to think that

2485

01:34:11,110 --> 01:34:08,800

hey

2486

01:34:14,310 --> 01:34:11,120

i'm more important right like

2487

01:34:15,990 --> 01:34:14,320

the the the study was titled something i

2488

01:34:17,350 --> 01:34:16,000

mentioned in the article but the study

2489

01:34:20,149 --> 01:34:17,360

was like

2490

01:34:21,750 --> 01:34:20,159

even the stars think i'm special i think

2491

01:34:23,830 --> 01:34:21,760

that was literally the name the

2492

01:34:24,870 --> 01:34:23,840

researchers used in the headline of the

2493

01:34:25,990 --> 01:34:24,880

article

2494

01:34:28,470 --> 01:34:26,000

so

2495

01:34:29,669 --> 01:34:28,480

i think for that particular component i

2496

01:34:32,149 --> 01:34:29,679

don't know that there's a lot of

2497

01:34:33,990 --> 01:34:32,159

argument you can make about that other

2498

01:34:35,750 --> 01:34:34,000

than they're just they're saying what

2499

01:34:37,990 --> 01:34:35,760

they found in the study

2500

01:34:40,390 --> 01:34:38,000

the correlations with less intelligence

2501
01:34:41,910 --> 01:34:40,400
conspiracy theory and pseudoscience

2502
01:34:44,629 --> 01:34:41,920
unfortunately

2503
01:34:46,790 --> 01:34:44,639
it just you know

2504
01:34:49,270 --> 01:34:46,800
astrology looks like science right it

2505
01:34:51,350 --> 01:34:49,280
has all this information it has all this

2506
01:34:53,590 --> 01:34:51,360
mathematics and this goes here on this

2507
01:34:55,510 --> 01:34:53,600
day and this goes there on that day it

2508
01:34:58,550 --> 01:34:55,520
has the structure

2509
01:34:59,270 --> 01:34:58,560
of a scientific system

2510
01:35:01,510 --> 01:34:59,280
but

2511
01:35:02,790 --> 01:35:01,520
the analysis people that have tried to

2512
01:35:03,830 --> 01:35:02,800
analyze

2513
01:35:06,550 --> 01:35:03,840

um

2514

01:35:08,390 --> 01:35:06,560

astrology over the decades have never

2515

01:35:10,790 --> 01:35:08,400

been able to correlate

2516

01:35:13,109 --> 01:35:10,800

what an astrologer says is a person's

2517

01:35:14,470 --> 01:35:13,119

personality or tendencies or likely

2518

01:35:17,189 --> 01:35:14,480

behaviors

2519

01:35:19,109 --> 01:35:17,199

with their astrological sign or the

2520

01:35:20,229 --> 01:35:19,119

position of the star or the moon or any

2521

01:35:21,109 --> 01:35:20,239

of those things

2522

01:35:24,229 --> 01:35:21,119

so

2523

01:35:25,510 --> 01:35:24,239

from a scientific standpoint yeah i i

2524

01:35:27,510 --> 01:35:25,520

don't you know i talked to some

2525

01:35:30,149 --> 01:35:27,520

astronomers here and there and i would

2526

01:35:32,310 --> 01:35:30,159

guess that among that group astrology is

2527

01:35:33,830 --> 01:35:32,320

not very popular because they're trying

2528

01:35:36,070 --> 01:35:33,840

to understand

2529

01:35:37,270 --> 01:35:36,080

uh astronomical bodies from a scientific

2530

01:35:38,709 --> 01:35:37,280

standpoint they're trying to figure out

2531

01:35:41,669 --> 01:35:38,719

what they're made of what their orbits

2532

01:35:43,830 --> 01:35:41,679

are uh how they were created and where

2533

01:35:44,790 --> 01:35:43,840

they are in space all those things

2534

01:35:49,669 --> 01:35:44,800

so

2535

01:35:51,830 --> 01:35:49,679

that astronomers themselves do not do

2536

01:35:53,189 --> 01:35:51,840

not love astrology i haven't had anyone

2537

01:35:55,750 --> 01:35:53,199

say that to me directly i'm just

2538

01:35:58,229 --> 01:35:55,760

suspecting that so it really was just

2539

01:35:59,270 --> 01:35:58,239

this study it did it wasn't anyone's

2540

01:36:00,870 --> 01:35:59,280

opinion

2541

01:36:02,470 --> 01:36:00,880

it wasn't somebody coming out and gone

2542

01:36:05,750 --> 01:36:02,480

ah people that believe in astrology or

2543

01:36:08,470 --> 01:36:05,760

idiots it was studies saying we found a

2544

01:36:11,830 --> 01:36:08,480

number of correlations to a belief in

2545

01:36:14,149 --> 01:36:11,840

astrology now was the goal to set out

2546

01:36:15,910 --> 01:36:14,159

and show hey i think astrologer people

2547

01:36:18,310 --> 01:36:15,920

that believe it are dumb and believe in

2548

01:36:20,550 --> 01:36:18,320

i don't know i that wasn't indicated

2549

01:36:22,470 --> 01:36:20,560

anywhere in the study that's terrible it

2550

01:36:24,229 --> 01:36:22,480

was just indicated they wanted to know

2551
01:36:25,750 --> 01:36:24,239
what was the personality breakdown of

2552
01:36:28,790 --> 01:36:25,760
somebody what is the intelligence of

2553
01:36:31,030 --> 01:36:28,800
somebody who's into this system that's

2554
01:36:32,950 --> 01:36:31,040
been around for millennia that is really

2555
01:36:34,790 --> 01:36:32,960
hard to even trace the background to the

2556
01:36:37,990 --> 01:36:34,800
arguments of like where astrology comes

2557
01:36:39,510 --> 01:36:38,000
from and the astronomical signs i mean

2558
01:36:41,109 --> 01:36:39,520
they seem to go back thousands of

2559
01:36:42,470 --> 01:36:41,119
thousands of years before recorded

2560
01:36:44,229 --> 01:36:42,480
history so

2561
01:36:47,510 --> 01:36:44,239
trying to take a system that's literally

2562
01:36:50,310 --> 01:36:47,520
been around that long and and

2563
01:36:52,550 --> 01:36:50,320

analyze it for validity has been done so

2564

01:36:55,830 --> 01:36:52,560

once we've kind of said it seems to not

2565

01:36:57,510 --> 01:36:55,840

be real it seems to not indicate that if

2566

01:36:59,030 --> 01:36:57,520

you were born on this day and the moon

2567

01:37:01,590 --> 01:36:59,040

is in this house and this thing's in

2568

01:37:02,709 --> 01:37:01,600

retrograde that you should skip driving

2569

01:37:05,270 --> 01:37:02,719

to work that day because you're more

2570

01:37:07,270 --> 01:37:05,280

likely to get in an accident or whatever

2571

01:37:09,910 --> 01:37:07,280

those correlations just didn't seem to

2572

01:37:12,709 --> 01:37:09,920

hold up so yeah this follow-up study

2573

01:37:15,510 --> 01:37:12,719

this this was and again it's just a

2574

01:37:17,350 --> 01:37:15,520

questionnaire on facebook it's just a

2575

01:37:20,149 --> 01:37:17,360

couple of hundred people

2576

01:37:22,870 --> 01:37:20,159

and but yeah mj told me our editor told

2577

01:37:24,070 --> 01:37:22,880

me that the the feedback at the debrief

2578

01:37:26,390 --> 01:37:24,080

has been uh

2579

01:37:28,070 --> 01:37:26,400

extreme there's a lot a lot of attention

2580

01:37:30,310 --> 01:37:28,080

to it so

2581

01:37:32,550 --> 01:37:30,320

i'll admit i'm a little biased as a guy

2582

01:37:35,030 --> 01:37:32,560

who writes about science and writes

2583

01:37:38,470 --> 01:37:35,040

about people who actually use scientific

2584

01:37:41,350 --> 01:37:38,480

method to figure things out i personally

2585

01:37:43,830 --> 01:37:41,360

i'm not an astrology guy uh

2586

01:37:45,750 --> 01:37:43,840

i don't see a scientific correlation i

2587

01:37:48,870 --> 01:37:45,760

will say this and i have this discussion

2588

01:37:50,870 --> 01:37:48,880

with chrissy newton the other day

2589

01:37:53,270 --> 01:37:50,880

if you were born in the united states or

2590

01:37:54,629 --> 01:37:53,280

canada in the second half of the 20th

2591

01:37:57,030 --> 01:37:54,639

century

2592

01:37:58,550 --> 01:37:57,040

your calendar has a rhythm to it and by

2593

01:38:01,590 --> 01:37:58,560

that i mean

2594

01:38:04,310 --> 01:38:01,600

in the fall we start school

2595

01:38:06,950 --> 01:38:04,320

in the winter we have the holidays the

2596

01:38:09,350 --> 01:38:06,960

school year ends in may or june and we

2597

01:38:11,030 --> 01:38:09,360

have the summer off and that system's

2598

01:38:13,030 --> 01:38:11,040

more or less been in place in american

2599

01:38:15,750 --> 01:38:13,040

education since world war ii canadian

2600

01:38:17,590 --> 01:38:15,760

education to some degree as well and

2601
01:38:19,830 --> 01:38:17,600
social scientists have looked at this

2602
01:38:21,590 --> 01:38:19,840
and said sure enough

2603
01:38:24,790 --> 01:38:21,600
if you're in that group if you've been

2604
01:38:27,030 --> 01:38:24,800
born in the us in the last 70 years 60

2605
01:38:28,950 --> 01:38:27,040
years

2606
01:38:31,910 --> 01:38:28,960
when you were born

2607
01:38:34,629 --> 01:38:31,920
what time of year you were born may very

2608
01:38:36,709 --> 01:38:34,639
well affect you may very well affect

2609
01:38:38,229 --> 01:38:36,719
your personality your social

2610
01:38:40,629 --> 01:38:38,239
interactions your growth because

2611
01:38:42,709 --> 01:38:40,639
children when you're down at first grade

2612
01:38:44,629 --> 01:38:42,719
second grade third grade or god forbid

2613
01:38:45,990 --> 01:38:44,639

the start of puberty in middle school

2614

01:38:47,990 --> 01:38:46,000

and high school

2615

01:38:49,830 --> 01:38:48,000

that difference between

2616

01:38:52,070 --> 01:38:49,840

three months six months nine months

2617

01:38:54,390 --> 01:38:52,080

older than somebody else in your same

2618

01:38:55,910 --> 01:38:54,400

class or even a year older i had friends

2619

01:38:57,750 --> 01:38:55,920

in my senior high school that were born

2620

01:38:59,669 --> 01:38:57,760

in september and friends that were born

2621

01:39:02,149 --> 01:38:59,679

in december but a full year later they

2622

01:39:04,070 --> 01:39:02,159

were 15 months younger than these kids

2623

01:39:06,470 --> 01:39:04,080

in some situations

2624

01:39:08,229 --> 01:39:06,480

that that has a dramatic effect i know i

2625

01:39:10,070 --> 01:39:08,239

had a summer birthday so i never got to

2626

01:39:11,030 --> 01:39:10,080

celebrate my birthday in class right

2627

01:39:13,189 --> 01:39:11,040

literally

2628

01:39:15,350 --> 01:39:13,199

all through elementary school all the

2629

01:39:17,910 --> 01:39:15,360

kids that were born in october november

2630

01:39:19,590 --> 01:39:17,920

january you would have a cake in class

2631

01:39:20,950 --> 01:39:19,600

and everyone said yeah i just never went

2632

01:39:23,270 --> 01:39:20,960

through that i remember at that age

2633

01:39:24,550 --> 01:39:23,280

going like this sucks right i don't get

2634

01:39:26,870 --> 01:39:24,560

to have cake in school because my

2635

01:39:29,030 --> 01:39:26,880

birthday's at the end of june and i

2636

01:39:31,910 --> 01:39:29,040

hated that so yeah there's a good

2637

01:39:35,030 --> 01:39:31,920

argument to be said for a correlation

2638

01:39:36,070 --> 01:39:35,040

between birth date and some personality

2639

01:39:38,390 --> 01:39:36,080

traits

2640

01:39:40,390 --> 01:39:38,400

across the general population of north

2641

01:39:41,990 --> 01:39:40,400

america but as far as having to do

2642

01:39:44,629 --> 01:39:42,000

anything with the

2643

01:39:46,550 --> 01:39:44,639

scorpio and taurus and where stars and

2644

01:39:48,470 --> 01:39:46,560

planets are positioned yeah the this

2645

01:39:50,070 --> 01:39:48,480

study found that

2646

01:39:51,430 --> 01:39:50,080

yeah i think it's important to note in

2647

01:39:54,149 --> 01:39:51,440

an era of

2648

01:39:54,950 --> 01:39:54,159

conspiracy in pseudosciences

2649

01:40:00,149 --> 01:39:54,960

that

2650

01:40:02,470 --> 01:40:00,159

point to somebody who can maybe benefit

2651
01:40:04,070 --> 01:40:02,480
from a little more science education

2652
01:40:06,470 --> 01:40:04,080
is not a bad thing

2653
01:40:08,950 --> 01:40:06,480
not at all not at all and you know the

2654
01:40:09,990 --> 01:40:08,960
correlation i i can understand that i

2655
01:40:12,870 --> 01:40:10,000
mean you

2656
01:40:15,510 --> 01:40:12,880
you have a chaotic world in an uncertain

2657
01:40:18,310 --> 01:40:15,520
world especially right now in the middle

2658
01:40:20,070 --> 01:40:18,320
of a pandemic i i wouldn't blame a lot

2659
01:40:23,109 --> 01:40:20,080
of people for either

2660
01:40:24,070 --> 01:40:23,119
buying into conspiracies or uh buying

2661
01:40:26,870 --> 01:40:24,080
into

2662
01:40:29,189 --> 01:40:26,880
astrology um i'm personally not one of

2663
01:40:31,830 --> 01:40:29,199

those people i don't promote either of

2664

01:40:33,910 --> 01:40:31,840

those things conspiracy theory or

2665

01:40:36,709 --> 01:40:33,920

astrology uh but

2666

01:40:38,950 --> 01:40:36,719

but i can understand you know they both

2667

01:40:41,910 --> 01:40:38,960

astrology and conspiracy theory want to

2668

01:40:44,470 --> 01:40:41,920

make sense of things that simply don't

2669

01:40:46,790 --> 01:40:44,480

make sense or are simply so uncertain

2670

01:40:49,910 --> 01:40:46,800

that we have to make a truth we have to

2671

01:40:51,910 --> 01:40:49,920

make find control within that chaos so

2672

01:40:54,070 --> 01:40:51,920

why not why not oh i was born on this

2673

01:40:57,030 --> 01:40:54,080

day this means this i'm gonna be safe

2674

01:40:59,590 --> 01:40:57,040

i'm fine or oh we're not being told the

2675

01:41:02,629 --> 01:40:59,600

truth about a vaccine so there's clearly

2676

01:41:04,790 --> 01:41:02,639

a conspiracy and this person didn't take

2677

01:41:06,870 --> 01:41:04,800

it and they're alive and this person did

2678

01:41:09,189 --> 01:41:06,880

and they died that doesn't make sense to

2679

01:41:11,270 --> 01:41:09,199

me so there's clearly a conspiracy no

2680

01:41:13,430 --> 01:41:11,280

it's just the world is a chaotic place

2681

01:41:15,350 --> 01:41:13,440

science isn't perfect medicine isn't

2682

01:41:17,030 --> 01:41:15,360

perfect and we try to make sense of

2683

01:41:19,270 --> 01:41:17,040

those things so again i'm not promoting

2684

01:41:21,990 --> 01:41:19,280

conspiracy theory or astrology but a

2685

01:41:23,990 --> 01:41:22,000

part of me understands why some people

2686

01:41:25,910 --> 01:41:24,000

do and how it can come off as

2687

01:41:28,310 --> 01:41:25,920

narcissistic because at the end of the

2688

01:41:29,990 --> 01:41:28,320

day you're interested in that conspiracy

2689

01:41:32,070 --> 01:41:30,000

or astrology

2690

01:41:34,870 --> 01:41:32,080

for yourself yeah and how it's going to

2691

01:41:36,149 --> 01:41:34,880

affect your life yeah personally um so

2692

01:41:38,070 --> 01:41:36,159

and i think yeah

2693

01:41:40,550 --> 01:41:38,080

i think you know like cold readers like

2694

01:41:42,310 --> 01:41:40,560

people that uh pretend to be psychic but

2695

01:41:45,350 --> 01:41:42,320

aren't really and they do that for a

2696

01:41:47,109 --> 01:41:45,360

living they call it cold reading um if

2697

01:41:48,470 --> 01:41:47,119

you go through a cold reading event or

2698

01:41:51,189 --> 01:41:48,480

even a warm reading where they know a

2699

01:41:53,590 --> 01:41:51,199

little information about you uh it you

2700

01:41:55,270 --> 01:41:53,600

tend to grab onto the stuff that's right

2701

01:41:57,189 --> 01:41:55,280

and kind of dismiss the stuff that's

2702

01:41:58,950 --> 01:41:57,199

wrong so if you're reading a horoscope

2703

01:42:00,550 --> 01:41:58,960

about yourself in the morning and says

2704

01:42:01,990 --> 01:42:00,560

you're somebody who really doesn't like

2705

01:42:03,590 --> 01:42:02,000

to go to work and you're like god

2706

01:42:05,510 --> 01:42:03,600

they're right i really ain't going to

2707

01:42:07,590 --> 01:42:05,520

work you're going to grab on to that if

2708

01:42:10,629 --> 01:42:07,600

you read that enough days in a row you

2709

01:42:11,830 --> 01:42:10,639

go man this this astrology's really on

2710

01:42:13,669 --> 01:42:11,840

to something they've really got me

2711

01:42:15,830 --> 01:42:13,679

figured out even if within the same

2712

01:42:17,189 --> 01:42:15,840

thing it says you tend to be shy and

2713

01:42:19,750 --> 01:42:17,199

you're the person at work that won't

2714

01:42:21,510 --> 01:42:19,760

shut up everybody goes well yeah i'm shy

2715

01:42:23,750 --> 01:42:21,520

celebrities say interviews all the time

2716

01:42:25,750 --> 01:42:23,760

i'm really a shy person and you're in an

2717

01:42:28,229 --> 01:42:25,760

attention speaking profession on camera

2718

01:42:29,510 --> 01:42:28,239

with lights on you doing an interview

2719

01:42:31,669 --> 01:42:29,520

and you're telling people you're shy

2720

01:42:34,470 --> 01:42:31,679

because we all on some level feel that

2721

01:42:36,709 --> 01:42:34,480

right so all of these personality traits

2722

01:42:38,790 --> 01:42:36,719

i think exist in everyone so you can

2723

01:42:54,870 --> 01:42:38,800

look at those and cherry pick it go man

2724

01:42:59,590 --> 01:42:57,350

yep that's what the debrief is for um

2725

01:43:01,109 --> 01:42:59,600

i've got one more story of yours at the

2726

01:43:03,189 --> 01:43:01,119

debrief i do want to cover chris but

2727

01:43:05,510 --> 01:43:03,199

before we do that let's rewind

2728

01:43:07,910 --> 01:43:05,520

byron has an interesting question here

2729

01:43:12,149 --> 01:43:07,920

super chat are you following alt energy

2730

01:43:14,870 --> 01:43:12,159

projects like sapphire um ariane.ca

2731

01:43:16,629 --> 01:43:14,880

uh brilliant light power and nj company

2732

01:43:20,470 --> 01:43:16,639

any of these come to mind chris anything

2733

01:43:23,590 --> 01:43:20,480

i am not you know i cover a lot of uh

2734

01:43:26,070 --> 01:43:23,600

alternate propulsion and uh even when i

2735

01:43:28,149 --> 01:43:26,080

covered like fusion energy projects

2736

01:43:29,990 --> 01:43:28,159

those are in the realm of propulsion so

2737

01:43:31,990 --> 01:43:30,000

that's more what i do

2738

01:43:36,310 --> 01:43:32,000

but uh

2739

01:43:40,149 --> 01:43:36,320

i will screen grab those names or

2740

01:43:42,629 --> 01:43:40,159

byron is it byron i remember

2741

01:43:45,590 --> 01:43:42,639

drop those in my dms on twitter if

2742

01:43:47,270 --> 01:43:45,600

you're over there and uh i will uh i

2743

01:43:48,550 --> 01:43:47,280

will either look into it or i will see

2744

01:43:50,550 --> 01:43:48,560

if we can assign it to one of the

2745

01:43:51,990 --> 01:43:50,560

writers there to research it and see if

2746

01:43:53,270 --> 01:43:52,000

we can get to the bottom of what's going

2747

01:43:55,430 --> 01:43:53,280

on if there's something in there our

2748

01:43:57,350 --> 01:43:55,440

audience will respond to alternative

2749

01:43:58,149 --> 01:43:57,360

energy sounds interesting as heck to me

2750

01:44:00,070 --> 01:43:58,159

so

2751
01:44:01,910 --> 01:44:00,080
yeah man he said you need to check him

2752
01:44:04,229 --> 01:44:01,920
out definitely there we go

2753
01:44:06,470 --> 01:44:04,239
getting some new some new material for

2754
01:44:09,109 --> 01:44:06,480
chris thanks byron i appreciate that man

2755
01:44:10,790 --> 01:44:09,119
thank you for the super chat thank you

2756
01:44:12,470 --> 01:44:10,800
all right well

2757
01:44:13,990 --> 01:44:12,480
again before we get to the last article

2758
01:44:16,149 --> 01:44:14,000
chris rodrigo wants to know the

2759
01:44:19,030 --> 01:44:16,159
ingenuity helicopter has been performing

2760
01:44:21,350 --> 01:44:19,040
extremely well 16th flight i think what

2761
01:44:26,390 --> 01:44:21,360
does chris think then is next for flight

2762
01:44:29,750 --> 01:44:27,750
i love talking about this helicopter

2763
01:44:30,629 --> 01:44:29,760

because i get a complaint can i complain

2764

01:44:32,629 --> 01:44:30,639

again

2765

01:44:35,430 --> 01:44:32,639

so of course you can i interviewed jaco

2766

01:44:37,350 --> 01:44:35,440

karis he's a roboticist at nasa and he's

2767

01:44:39,590 --> 01:44:37,360

the one who designed and built that

2768

01:44:41,350 --> 01:44:39,600

ingenuity helicopter and i interviewed

2769

01:44:43,750 --> 01:44:41,360

him before the engine ingenuity

2770

01:44:46,070 --> 01:44:43,760

helicopter went for its first flights

2771

01:44:47,990 --> 01:44:46,080

and uh so at this point it was on its

2772

01:44:49,990 --> 01:44:48,000

way to mars it hadn't even landed we

2773

01:44:51,270 --> 01:44:50,000

didn't even know it the the rover was

2774

01:44:54,790 --> 01:44:51,280

going to survive much less the

2775

01:44:57,830 --> 01:44:54,800

helicopter but in that interview um

2776

01:44:59,830 --> 01:44:57,840

the two questions i asked of him that uh

2777

01:45:02,470 --> 01:44:59,840

it turns out i was on the right track

2778

01:45:04,470 --> 01:45:02,480

but he told me he didn't he fibbed a

2779

01:45:06,950 --> 01:45:04,480

little bit so i asked him i said are

2780

01:45:09,430 --> 01:45:06,960

there any secret messages

2781

01:45:11,030 --> 01:45:09,440

built onto the ingenuity helicopter

2782

01:45:13,350 --> 01:45:11,040

because i talk to engineers and

2783

01:45:15,430 --> 01:45:13,360

scientists all the time and they love

2784

01:45:17,830 --> 01:45:15,440

signing their work they love putting a

2785

01:45:20,149 --> 01:45:17,840

cryptic message or something and he kind

2786

01:45:22,390 --> 01:45:20,159

of laughed and hemmed it on and said no

2787

01:45:23,750 --> 01:45:22,400

you know all the guys that worked on it

2788

01:45:25,910 --> 01:45:23,760

and women that worked on it all the

2789

01:45:28,470 --> 01:45:25,920

energy and effort we put into it that

2790

01:45:30,709 --> 01:45:28,480

that's our signature well sure enough

2791

01:45:32,709 --> 01:45:30,719

when the thing landed we find out that

2792

01:45:34,950 --> 01:45:32,719

it had a piece of the wright brothers

2793

01:45:36,870 --> 01:45:34,960

plane original wing

2794

01:45:38,709 --> 01:45:36,880

attached to it because it was this

2795

01:45:41,189 --> 01:45:38,719

wright brothers moment on another planet

2796

01:45:44,629 --> 01:45:41,199

so i knew it and i asked the right

2797

01:45:47,270 --> 01:45:44,639

question and jocko you lied to me buddy

2798

01:45:48,870 --> 01:45:47,280

so then that's so cool right near the

2799

01:45:50,950 --> 01:45:48,880

end of the interview i told him i said

2800

01:45:52,629 --> 01:45:50,960

you know with previous rover missions

2801
01:45:55,189 --> 01:45:52,639
because i've been following rovers as i

2802
01:45:57,109 --> 01:45:55,199
said since spirit opportunity landed on

2803
01:45:58,950 --> 01:45:57,119
mars in the late 90s

2804
01:46:01,750 --> 01:45:58,960
and i said i've noticed with previous

2805
01:46:03,270 --> 01:46:01,760
rover missions that when they're done

2806
01:46:05,189 --> 01:46:03,280
like for instance spirit and opportunity

2807
01:46:07,270 --> 01:46:05,199
had 90 day missions and that was it but

2808
01:46:09,350 --> 01:46:07,280
they run away for seven years one grand

2809
01:46:11,430 --> 01:46:09,360
i don't know how i mean years and years

2810
01:46:13,109 --> 01:46:11,440
for both of those

2811
01:46:15,030 --> 01:46:13,119
so what they do is they have a backup

2812
01:46:17,430 --> 01:46:15,040
plan they say okay if we get to 90 days

2813
01:46:19,430 --> 01:46:17,440

and we burnt up all of our experiments

2814

01:46:20,870 --> 01:46:19,440

we go to the b book of experiments and

2815

01:46:23,430 --> 01:46:20,880

then if we burn all those up we do

2816

01:46:24,790 --> 01:46:23,440

another 90 another and you constantly

2817

01:46:27,189 --> 01:46:24,800

have these like

2818

01:46:28,870 --> 01:46:27,199

alternates of if we keep working and the

2819

01:46:30,709 --> 01:46:28,880

thing keeps going what do we do so i

2820

01:46:32,550 --> 01:46:30,719

asked choco i said

2821

01:46:34,390 --> 01:46:32,560

you guys have xn i forget how many it

2822

01:46:36,390 --> 01:46:34,400

was at the time but they had a handful

2823

01:46:39,669 --> 01:46:36,400

of test flights scheduled

2824

01:46:42,229 --> 01:46:39,679

and i said when you finish those flights

2825

01:46:45,189 --> 01:46:42,239

and you finish that book

2826

01:46:47,430 --> 01:46:45,199

if the helicopter is still working

2827

01:46:49,510 --> 01:46:47,440

what is the b book what are what are the

2828

01:46:51,510 --> 01:46:49,520

what's that next set of missions what do

2829

01:46:54,310 --> 01:46:51,520

you guys have planned

2830

01:46:56,550 --> 01:46:54,320

and he told me that at that point the

2831

01:46:58,550 --> 01:46:56,560

mars perseverance rover which is how

2832

01:47:01,430 --> 01:46:58,560

they communicate to the helicopter they

2833

01:47:02,790 --> 01:47:01,440

talk to an orbital sad thing it talks to

2834

01:47:04,950 --> 01:47:02,800

the rover and the rover talks to the

2835

01:47:07,830 --> 01:47:04,960

helicopter that's how we do it

2836

01:47:10,629 --> 01:47:07,840

he said it will have to move on to its

2837

01:47:12,310 --> 01:47:10,639

own science missions so that will be it

2838

01:47:14,310 --> 01:47:12,320

the helicopter will do those first few

2839

01:47:16,470 --> 01:47:14,320

flights and that'll be it so of course

2840

01:47:18,629 --> 01:47:16,480

it had those first few flights and then

2841

01:47:21,109 --> 01:47:18,639

nasa announced oh we have a b set of

2842

01:47:23,669 --> 01:47:21,119

missions since it's still working so i

2843

01:47:25,510 --> 01:47:23,679

got him twice in that article telling me

2844

01:47:27,109 --> 01:47:25,520

not the truth because there were things

2845

01:47:28,629 --> 01:47:27,119

he just didn't want to give up he didn't

2846

01:47:31,270 --> 01:47:28,639

want to give up the right mother's wing

2847

01:47:32,790 --> 01:47:31,280

which i get and he didn't want to say

2848

01:47:34,790 --> 01:47:32,800

we have backup missions because he

2849

01:47:38,070 --> 01:47:34,800

wanted everyone focused on those primary

2850

01:47:40,149 --> 01:47:38,080

missions so what's gonna happen next i

2851
01:47:42,070 --> 01:47:40,159
literally don't know i asked the guy

2852
01:47:43,990 --> 01:47:42,080
directly and he told me there weren't

2853
01:47:45,350 --> 01:47:44,000
any and the thing is still doing test

2854
01:47:47,910 --> 01:47:45,360
flights

2855
01:47:51,350 --> 01:47:47,920
as far as future projects like that

2856
01:47:54,229 --> 01:47:51,360
we're talking about a submarine on titan

2857
01:47:55,669 --> 01:47:54,239
which is one of saturn's moons saturn's

2858
01:47:58,149 --> 01:47:55,679
moon titan is one of the most

2859
01:48:00,149 --> 01:47:58,159
interesting places in the solar system

2860
01:48:02,310 --> 01:48:00,159
because it has a dense atmosphere like

2861
01:48:03,990 --> 01:48:02,320
earth and it has the atmospheric

2862
01:48:05,669 --> 01:48:04,000
pressure almost identical to ours as a

2863
01:48:07,510 --> 01:48:05,679

matter of fact other than the fact that

2864

01:48:09,350 --> 01:48:07,520

it's about you know depending on the

2865

01:48:12,629 --> 01:48:09,360

temperature and time of day it's like

2866

01:48:15,189 --> 01:48:12,639

freezing there you could stand on the

2867

01:48:16,950 --> 01:48:15,199

surface of titan in your bathing suit

2868

01:48:18,950 --> 01:48:16,960

and as long as you have a breathing mask

2869

01:48:21,510 --> 01:48:18,960

on to protect your eyes ears and face

2870

01:48:23,430 --> 01:48:21,520

and stuff and breathe proper air the

2871

01:48:25,830 --> 01:48:23,440

atmospheric pressure and the environment

2872

01:48:28,709 --> 01:48:25,840

would actually support us there but what

2873

01:48:31,430 --> 01:48:28,719

they also have on on that moon on the

2874

01:48:33,189 --> 01:48:31,440

moon titan is a bunch of lakes

2875

01:48:35,669 --> 01:48:33,199

and uh and

2876

01:48:38,470 --> 01:48:35,679

not oceans but actual huge bodies of

2877

01:48:41,590 --> 01:48:38,480

liquid lakes now they're not water

2878

01:48:44,229 --> 01:48:41,600

they're hydrocarbons so they're uh you

2879

01:48:45,990 --> 01:48:44,239

know like uh you know like gasoline and

2880

01:48:47,990 --> 01:48:46,000

stuff you know they're they're they're

2881

01:48:49,270 --> 01:48:48,000

they're flammable hydrocarbons here on

2882

01:48:51,109 --> 01:48:49,280

earth

2883

01:48:53,430 --> 01:48:51,119

but they're fully liquid like so we've

2884

01:48:55,830 --> 01:48:53,440

talked about putting a submarine up

2885

01:48:57,590 --> 01:48:55,840

there because of that dense atmosphere

2886

01:48:59,430 --> 01:48:57,600

if we put a little helicopter like the

2887

01:49:01,189 --> 01:48:59,440

one on mars up there you wouldn't even

2888

01:49:03,350 --> 01:49:01,199

have to turn the helicopter blades very

2889

01:49:04,870 --> 01:49:03,360

fast and the thing would fly i read an

2890

01:49:07,350 --> 01:49:04,880

article that said the atmosphere is so

2891

01:49:09,590 --> 01:49:07,360

good and dense there and the gravity is

2892

01:49:11,189 --> 01:49:09,600

light enough that if a man had wings

2893

01:49:14,470 --> 01:49:11,199

taped to his arm and you'd get a good

2894

01:49:17,270 --> 01:49:14,480

run and flap them you could fly on tight

2895

01:49:20,470 --> 01:49:17,280

between the atmosphere density and the

2896

01:49:22,550 --> 01:49:20,480

uh and the low gravity so that is a

2897

01:49:24,629 --> 01:49:22,560

place that uh

2898

01:49:27,669 --> 01:49:24,639

i think we will plan robotic missions

2899

01:49:29,990 --> 01:49:27,679

for as far as another helicopter i think

2900

01:49:32,550 --> 01:49:30,000

that was the goal of ingenuity it was

2901

01:49:34,070 --> 01:49:32,560

what they call a technology demonstrator

2902

01:49:35,830 --> 01:49:34,080

and the goal was to prove that we could

2903

01:49:38,310 --> 01:49:35,840

put a helicopter on another planet fly

2904

01:49:39,830 --> 01:49:38,320

the thing around and sure enough we did

2905

01:49:41,589 --> 01:49:39,840

so

2906

01:49:44,550 --> 01:49:41,599

we're gonna do it man they're gonna be

2907

01:49:46,950 --> 01:49:44,560

more helicopters fly into more places

2908

01:49:49,189 --> 01:49:46,960

that thing was just a proof of concept

2909

01:49:51,270 --> 01:49:49,199

i love it and it could not have been

2910

01:49:53,830 --> 01:49:51,280

more successful we're living in crazy

2911

01:49:56,870 --> 01:49:53,840

times man i i i can't believe it i feel

2912

01:50:00,550 --> 01:49:56,880

so blessed to like be living in this age

2913

01:50:01,510 --> 01:50:00,560

oh this next 50 years of science ryan

2914

01:50:04,470 --> 01:50:01,520

you know

2915

01:50:06,550 --> 01:50:04,480

setting aside that we may be on the cusp

2916

01:50:09,510 --> 01:50:06,560

of the hugest story of mankind regarding

2917

01:50:11,990 --> 01:50:09,520

ufos and alien life just setting that

2918

01:50:14,550 --> 01:50:12,000

aside the progress we are making the

2919

01:50:16,070 --> 01:50:14,560

progress humans are making in science

2920

01:50:18,470 --> 01:50:16,080

understanding technology and

2921

01:50:20,709 --> 01:50:18,480

developments is just

2922

01:50:22,470 --> 01:50:20,719

incredible and amazing and it's growing

2923

01:50:25,030 --> 01:50:22,480

at an exponential rate you know back in

2924

01:50:27,270 --> 01:50:25,040

the back in the times of the uh the

2925

01:50:29,350 --> 01:50:27,280

apollo moon landings the population of

2926

01:50:30,950 --> 01:50:29,360

earth was like 20 of what it is now so

2927

01:50:33,510 --> 01:50:30,960

we just have a lot more people working

2928

01:50:36,149 --> 01:50:33,520

on it we have scientists working

2929

01:50:38,550 --> 01:50:36,159

they're scientists in in china and korea

2930

01:50:40,629 --> 01:50:38,560

and japan scientists in europe south and

2931

01:50:41,830 --> 01:50:40,639

central america there are people that

2932

01:50:44,870 --> 01:50:41,840

write

2933

01:50:47,350 --> 01:50:44,880

masters theses and phd theses about

2934

01:50:49,990 --> 01:50:47,360

things like warp drive and wormholes and

2935

01:50:51,990 --> 01:50:50,000

time travel all of these cutting edge

2936

01:50:53,990 --> 01:50:52,000

sciences all these amazing things you

2937

01:50:55,030 --> 01:50:54,000

can think of people are working on them

2938

01:50:57,030 --> 01:50:55,040

and people are trying to make them

2939

01:50:58,149 --> 01:50:57,040

happen and that's never been like that

2940

01:51:00,229 --> 01:50:58,159

in history

2941

01:51:02,149 --> 01:51:00,239

it's amazing and you're bringing us the

2942

01:51:03,990 --> 01:51:02,159

most up-to-date information that's right

2943

01:51:04,830 --> 01:51:04,000

those scientists are trying to write

2944

01:51:06,550 --> 01:51:04,840

about

2945

01:51:09,109 --> 01:51:06,560

stuff

2946

01:51:11,430 --> 01:51:09,119

i love it warlock says great show guest

2947

01:51:14,470 --> 01:51:11,440

ryan thank you orla we really i know i

2948

01:51:16,629 --> 01:51:14,480

wasn't as comedic today i didn't hate

2949

01:51:19,109 --> 01:51:16,639

comedy as i usually do but you were

2950

01:51:21,270 --> 01:51:19,119

asking a lot of science questions

2951

01:51:24,070 --> 01:51:21,280

and that's what i wanted man i will do

2952

01:51:25,910 --> 01:51:24,080

the stand-up show another time maybe for

2953

01:51:28,310 --> 01:51:25,920

the patreon we'll do that um but the

2954

01:51:30,390 --> 01:51:28,320

last story i want to cover with you here

2955

01:51:33,589 --> 01:51:30,400

um now i

2956

01:51:35,990 --> 01:51:33,599

by trade am a bartender

2957

01:51:38,310 --> 01:51:36,000

when i'm not a playwright screenwriter

2958

01:51:40,950 --> 01:51:38,320

or ufologist i attend bar here in new

2959

01:51:42,070 --> 01:51:40,960

york at the broadway shows but i also

2960

01:51:44,709 --> 01:51:42,080

have a

2961

01:51:46,229 --> 01:51:44,719

history in um specialty coffee i'm a

2962

01:51:49,350 --> 01:51:46,239

coffee snob

2963

01:51:51,430 --> 01:51:49,360

i opened a coffee shop in los angeles uh

2964

01:51:53,830 --> 01:51:51,440

when i was living out there not i didn't

2965

01:51:56,550 --> 01:51:53,840

own it but i helped open it um called

2966

01:51:58,629 --> 01:51:56,560

coffee for sasquatch so i love me some

2967

01:52:00,870 --> 01:51:58,639

coffee man it's in my blood every second

2968

01:52:02,950 --> 01:52:00,880

of every day and now

2969

01:52:04,310 --> 01:52:02,960

i'm learning you know

2970

01:52:06,629 --> 01:52:04,320

you always hear

2971

01:52:08,790 --> 01:52:06,639

on the news every night it's coffee will

2972

01:52:10,310 --> 01:52:08,800

cause cancer no it won't yes it will no

2973

01:52:11,350 --> 01:52:10,320

it won't yes it will no it won't it's

2974

01:52:13,430 --> 01:52:11,360

good for you it's bad for you it's good

2975

01:52:15,750 --> 01:52:13,440

for you it's bad for you and you just

2976

01:52:18,470 --> 01:52:15,760

came out with an article about coffee

2977

01:52:21,030 --> 01:52:18,480

and alzheimer's disease so could you

2978

01:52:22,709 --> 01:52:21,040

tell us the correlation and uh what you

2979

01:52:24,870 --> 01:52:22,719

discovered in this article if you don't

2980

01:52:26,950 --> 01:52:24,880

mind yeah well first let me start with

2981

01:52:29,430 --> 01:52:26,960

this ryan coffee is good for you keep

2982

01:52:30,310 --> 01:52:29,440

drinking so um you have to tell me

2983

01:52:32,629 --> 01:52:30,320

choice

2984

01:52:34,950 --> 01:52:32,639

the biggest controversies around coffee

2985

01:52:36,709 --> 01:52:34,960

historically have been around caffeine

2986

01:52:39,430 --> 01:52:36,719

and caffeine addiction because if you're

2987

01:52:40,950 --> 01:52:39,440

drinking six seven eight cups a day and

2988

01:52:42,870 --> 01:52:40,960

you're feeling dragged down if you don't

2989

01:52:45,589 --> 01:52:42,880

drink that many yeah you might have a

2990

01:52:47,669 --> 01:52:45,599

caffeine problem or a stimulant problem

2991

01:52:51,350 --> 01:52:47,679

and uh you know you're a mini tweaker

2992

01:52:53,830 --> 01:52:51,360

little coffee tweaker but

2993

01:52:55,990 --> 01:52:53,840

as far as the bean itself

2994

01:52:57,550 --> 01:52:56,000

the coffee bean really is a magical bean

2995

01:52:59,669 --> 01:52:57,560

it's full of these things called

2996

01:53:02,070 --> 01:52:59,679

bioflavonoids which have tons of health

2997

01:53:04,790 --> 01:53:02,080

benefits it's full of antioxidants that

2998

01:53:06,390 --> 01:53:04,800

have tons of health benefits and for

2999

01:53:07,990 --> 01:53:06,400

some people can the caffeine is

3000

01:53:10,790 --> 01:53:08,000

beneficial as a matter of fact there's

3001

01:53:13,109 --> 01:53:10,800

been a lot of studies showing uh help

3002

01:53:15,750 --> 01:53:13,119

health benefits for diabetics for

3003

01:53:17,189 --> 01:53:15,760

drinking coffee and in many ways it

3004

01:53:19,109 --> 01:53:17,199

really is just doing what you do it's

3005

01:53:20,790 --> 01:53:19,119

just amping up your uh metabolism a

3006

01:53:23,510 --> 01:53:20,800

little bit helping your body process out

3007

01:53:26,149 --> 01:53:23,520

that sugar and stave it off

3008

01:53:28,070 --> 01:53:26,159

this one about alzheimer's was really

3009

01:53:31,270 --> 01:53:28,080

interesting

3010

01:53:33,750 --> 01:53:31,280

because they basically took about 10 000

3011

01:53:35,270 --> 01:53:33,760

people that they studied over a couple

3012

01:53:38,550 --> 01:53:35,280

of decades

3013

01:53:40,629 --> 01:53:38,560

and looked at their looked at the onset

3014

01:53:42,870 --> 01:53:40,639

of alzheimer's and dementia and

3015

01:53:46,070 --> 01:53:42,880

alzheimer's like symptoms

3016

01:53:49,750 --> 01:53:46,080

and they found a correlation

3017

01:53:52,550 --> 01:53:49,760

to drinking coffee and the delayed or no

3018

01:53:54,550 --> 01:53:52,560

onset of the symptoms and

3019

01:53:56,310 --> 01:53:54,560

the thing that was most exciting for

3020

01:53:58,229 --> 01:53:56,320

people like you ryan

3021

01:54:00,870 --> 01:53:58,239

is they found that the more coffee the

3022

01:54:02,709 --> 01:54:00,880

better so two cups had a better effect

3023

01:54:04,709 --> 01:54:02,719

three cups had a better effect they

3024

01:54:05,669 --> 01:54:04,719

didn't target an upper limit in the

3025

01:54:07,669 --> 01:54:05,679

study

3026

01:54:10,390 --> 01:54:07,679

but the more coffee the better for

3027

01:54:14,470 --> 01:54:10,400

preventing alzheimer's what the exact

3028

01:54:16,950 --> 01:54:14,480

mechanism is is is is being looked at i

3029

01:54:20,070 --> 01:54:16,960

can tell you this that most studies that

3030

01:54:22,070 --> 01:54:20,080

study alzheimer's focus on those amyloid

3031

01:54:24,070 --> 01:54:22,080

beta proteins that build up on the brain

3032

01:54:26,870 --> 01:54:24,080

like plaque and just kind of interfere

3033

01:54:29,430 --> 01:54:26,880

with everything working right and uh

3034

01:54:32,629 --> 01:54:29,440

that this may uh reduce the growth of

3035

01:54:35,990 --> 01:54:32,639

those or reduce the size of those it may

3036

01:54:38,470 --> 01:54:36,000

just be the anti-inflammatory

3037

01:54:41,350 --> 01:54:38,480

effects of the bean itself but they

3038

01:54:43,830 --> 01:54:41,360

found a real measurable benefit to it

3039

01:54:46,390 --> 01:54:43,840

and what's interesting is they found it

3040

01:54:48,950 --> 01:54:46,400

with a decaf coffee as well so it was

3041

01:54:51,990 --> 01:54:48,960

definitely not a caffeine related uh

3042

01:54:54,310 --> 01:54:52,000

benefit but it was specifically to the

3043

01:54:57,109 --> 01:54:54,320

the benefits in the coffee bean itself

3044

01:54:59,109 --> 01:54:57,119

which i will reiterate is a very healthy

3045

01:55:01,589 --> 01:54:59,119

bean with a lot of i'm not a big coffee

3046

01:55:02,629 --> 01:55:01,599

drinker my wife loves it but uh it's

3047

01:55:04,950 --> 01:55:02,639

it's

3048

01:55:07,109 --> 01:55:04,960

for every study that says don't drink

3049

01:55:08,470 --> 01:55:07,119

coffee i'll find you 20 that explain why

3050

01:55:11,030 --> 01:55:08,480

it's good

3051

01:55:14,070 --> 01:55:11,040

yup the coffee industrial complex which

3052

01:55:16,229 --> 01:55:14,080

i am a part of that's right

3053

01:55:17,990 --> 01:55:16,239

i love it man that's exciting to hear

3054

01:55:20,950 --> 01:55:18,000

because you know every day i think of

3055

01:55:23,669 --> 01:55:20,960

quentin um because yeah i i probably

3056

01:55:26,950 --> 01:55:23,679

have a small bit of an addiction but um

3057

01:55:28,629 --> 01:55:26,960

i also really appreciate uh coffee for

3058

01:55:30,830 --> 01:55:28,639

you know the artistry of it and the

3059

01:55:32,629 --> 01:55:30,840

different beans and everything and

3060

01:55:34,310 --> 01:55:32,639

now

3061

01:55:35,910 --> 01:55:34,320

i love it yep there's a lot of

3062

01:55:37,430 --> 01:55:35,920

breakthroughs and alzheimer's coming

3063

01:55:40,070 --> 01:55:37,440

because we've really put a ton of money

3064

01:55:41,910 --> 01:55:40,080

and research into it and because uh

3065

01:55:44,629 --> 01:55:41,920

research has been able to really zero in

3066

01:55:46,149 --> 01:55:44,639

and target on this protein uh there's a

3067

01:55:47,510 --> 01:55:46,159

couple there's a couple more treatments

3068

01:55:50,070 --> 01:55:47,520

there's one that's been announced

3069

01:55:52,149 --> 01:55:50,080

recently that's all over the news

3070

01:55:55,030 --> 01:55:52,159

everywhere is a new drug

3071

01:55:56,709 --> 01:55:55,040

i can't remember the name uh but if you

3072

01:55:59,030 --> 01:55:56,719

take this it will

3073

01:56:01,669 --> 01:55:59,040

essentially over time eliminate or

3074

01:56:03,589 --> 01:56:01,679

greatly reduce those so they're looking

3075

01:56:06,229 --> 01:56:03,599

not only as a preventative but actually

3076

01:56:08,070 --> 01:56:06,239

a reversing of alzheimer's i can tell

3077

01:56:09,990 --> 01:56:08,080

you my father suffers with alzheimer's

3078

01:56:12,149 --> 01:56:10,000

so it's not a pretty picture and it's

3079

01:56:15,109 --> 01:56:12,159

definitely something that even an

3080

01:56:17,350 --> 01:56:15,119

extremely expensive treatment uh is a

3081

01:56:19,910 --> 01:56:17,360

welcome one they're also working on an

3082

01:56:21,430 --> 01:56:19,920

alzheimer's vaccine

3083

01:56:23,990 --> 01:56:21,440

and this is something i'll be reporting

3084

01:56:25,589 --> 01:56:24,000

about in the coming weeks but basically

3085

01:56:28,070 --> 01:56:25,599

the idea is

3086

01:56:30,470 --> 01:56:28,080

if we have these new treatments to

3087

01:56:32,470 --> 01:56:30,480

eliminate these proteins

3088

01:56:34,870 --> 01:56:32,480

what if we could trigger our body's own

3089

01:56:36,629 --> 01:56:34,880

immune response to just prevent those

3090

01:56:39,030 --> 01:56:36,639

proteins from building up in the first

3091

01:56:41,430 --> 01:56:39,040

place to prevent that amyloid beta from

3092

01:56:43,109 --> 01:56:41,440

building up around the brain and causing

3093

01:56:45,510 --> 01:56:43,119

these problems and that's the idea

3094

01:56:47,669 --> 01:56:45,520

behind this vaccine and i wouldn't be

3095

01:56:49,990 --> 01:56:47,679

the least bit surprised ryan by the time

3096

01:56:53,109 --> 01:56:50,000

i'm having to to face the possibility of

3097

01:56:54,709 --> 01:56:53,119

that my 60s or 70s or or you a guy who's

3098

01:56:57,589 --> 01:56:54,719

a little younger than me having to face

3099

01:56:59,750 --> 01:56:57,599

that uh that there's just a vaccine you

3100

01:57:01,830 --> 01:56:59,760

go and get just like you you can get the

3101
01:57:03,750 --> 01:57:01,840
shingles vaccine now or you can get the

3102
01:57:05,109 --> 01:57:03,760
uh uh yeah i hear there's some other

3103
01:57:06,950 --> 01:57:05,119
vaccine in the news i don't remember

3104
01:57:09,350 --> 01:57:06,960
which one it is but

3105
01:57:11,430 --> 01:57:09,360
yeah that's really interesting well and

3106
01:57:13,270 --> 01:57:11,440
then you know we also have a huge

3107
01:57:16,310 --> 01:57:13,280
problem with diabetes at least here in

3108
01:57:19,830 --> 01:57:16,320
america okay so again if something like

3109
01:57:20,870 --> 01:57:19,840
a vaccine or um a coffee bean can help

3110
01:57:26,550 --> 01:57:20,880
like

3111
01:57:28,550 --> 01:57:26,560
embrace these things i love the only

3112
01:57:30,709 --> 01:57:28,560
thing i would and i'm no doctor the only

3113
01:57:33,109 --> 01:57:30,719

thing i would warn people about coffee

3114

01:57:35,270 --> 01:57:33,119

and excessive coffee drinking and this

3115

01:57:37,430 --> 01:57:35,280

is gonna stink for those people but if

3116

01:57:40,709 --> 01:57:37,440

you're pregnant there's a decent number

3117

01:57:43,350 --> 01:57:40,719

of studies that are kind of go both ways

3118

01:57:45,910 --> 01:57:43,360

so the effects it can have on your kid

3119

01:57:48,070 --> 01:57:45,920

could be positive could be negative so

3120

01:57:50,149 --> 01:57:48,080

if you are a coffee drinker and you can

3121

01:57:51,830 --> 01:57:50,159

skip it for those nine months which

3122

01:57:53,830 --> 01:57:51,840

would be insane for most people that

3123

01:57:55,270 --> 01:57:53,840

drink coffee regularly

3124

01:57:56,870 --> 01:57:55,280

you know it's at least something to talk

3125

01:57:59,669 --> 01:57:56,880

to your doctor about looked into the

3126
01:58:00,950 --> 01:57:59,679
studies but for the vast majority of

3127
01:58:03,030 --> 01:58:00,960
scenarios

3128
01:58:05,109 --> 01:58:03,040
coffee is constantly shocking us with

3129
01:58:07,669 --> 01:58:05,119
its health benefits

3130
01:58:10,870 --> 01:58:07,679
love it love it i'm all for it well hey

3131
01:58:14,149 --> 01:58:10,880
man let's end with um what to look

3132
01:58:16,629 --> 01:58:14,159
forward to we're heading into 2022

3133
01:58:19,589 --> 01:58:16,639
um hopeful of many things new

3134
01:58:22,070 --> 01:58:19,599
discoveries so twofold question for you

3135
01:58:24,470 --> 01:58:22,080
before we go chris um

3136
01:58:27,109 --> 01:58:24,480
what do you hope to see in 2022 when it

3137
01:58:29,750 --> 01:58:27,119
comes to space exploration and the hunt

3138
01:58:32,790 --> 01:58:29,760

for aliens and the second part of that

3139

01:58:34,950 --> 01:58:32,800

what do you hope for in terms of the uap

3140

01:58:39,750 --> 01:58:34,960

topic so hit us with what you hope for

3141

01:58:44,229 --> 01:58:40,629

so

3142

01:58:47,189 --> 01:58:44,239

on the uap topic i will say that i think

3143

01:58:48,709 --> 01:58:47,199

we're on the precipice of something

3144

01:58:50,870 --> 01:58:48,719

so

3145

01:58:52,950 --> 01:58:50,880

the people i work with that report on

3146

01:58:55,510 --> 01:58:52,960

this stuff exclusively

3147

01:58:56,950 --> 01:58:55,520

try and temper expectations all the time

3148

01:58:58,229 --> 01:58:56,960

because we really don't know what's

3149

01:59:01,189 --> 01:58:58,239

coming out

3150

01:59:03,830 --> 01:59:01,199

i'm a firm believer that 2022 is the

3151
01:59:05,510 --> 01:59:03,840
year we hear somebody in official

3152
01:59:08,709 --> 01:59:05,520
capacity say

3153
01:59:10,149 --> 01:59:08,719
a non-human technological intelligence

3154
01:59:12,310 --> 01:59:10,159
i just think that's going to happen i

3155
01:59:13,750 --> 01:59:12,320
think we're there i think we've

3156
01:59:15,910 --> 01:59:13,760
eliminated

3157
01:59:17,990 --> 01:59:15,920
you know there were always three ideas

3158
01:59:19,510 --> 01:59:18,000
ufos are a hallucination not real

3159
01:59:22,310 --> 01:59:19,520
misidentification whatever you want to

3160
01:59:24,629 --> 01:59:22,320
call it but they're not a thing

3161
01:59:26,790 --> 01:59:24,639
they're secret military

3162
01:59:28,550 --> 01:59:26,800
or they're a non-human technological

3163
01:59:30,870 --> 01:59:28,560

intelligence of some sort aliens

3164

01:59:33,270 --> 01:59:30,880

whatever trans dimensions

3165

01:59:36,790 --> 01:59:33,280

that first one's pretty much done the

3166

01:59:39,109 --> 01:59:36,800

the idea that all ufos that every pilot

3167

01:59:40,669 --> 01:59:39,119

reports and every radar season all these

3168

01:59:42,629 --> 01:59:40,679

things are just

3169

01:59:44,629 --> 01:59:42,639

misidentifications or atmospheric

3170

01:59:46,709 --> 01:59:44,639

phenomena or other things i think that's

3171

01:59:48,870 --> 01:59:46,719

over leslie kane said it with her last

3172

01:59:52,629 --> 01:59:48,880

story she wrote in the new york times

3173

01:59:54,870 --> 01:59:52,639

that the question of if ufos are real

3174

01:59:57,589 --> 01:59:54,880

is over and i do agree with her i think

3175

01:59:59,910 --> 01:59:57,599

that that has been set aside

3176

02:00:02,070 --> 01:59:59,920

we're now entering an area

3177

02:00:04,470 --> 02:00:02,080

where those in the position to know

3178

02:00:06,790 --> 02:00:04,480

those people with more information with

3179

02:00:09,589 --> 02:00:06,800

more pictures with more videos are going

3180

02:00:12,629 --> 02:00:09,599

to be put in a position to either say

3181

02:00:15,189 --> 02:00:12,639

it's us or it's not us and if they say

3182

02:00:18,229 --> 02:00:15,199

it's not us and they say conclusively

3183

02:00:21,030 --> 02:00:18,239

it's not another human intelligence that

3184

02:00:23,669 --> 02:00:21,040

only leaves the alternative and so i

3185

02:00:26,229 --> 02:00:23,679

think that's coming i do i think 2022 is

3186

02:00:28,950 --> 02:00:26,239

the year i think a lot is built to that

3187

02:00:31,350 --> 02:00:28,960

i think guys like melanin elizondo

3188

02:00:34,229 --> 02:00:31,360

lit that flame and however you feel

3189

02:00:35,030 --> 02:00:34,239

about them and i always cover my bases

3190

02:00:36,950 --> 02:00:35,040

with

3191

02:00:39,109 --> 02:00:36,960

their former intelligence community

3192

02:00:40,790 --> 02:00:39,119

people and it could definitely be human

3193

02:00:43,430 --> 02:00:40,800

technology that they're just not telling

3194

02:00:46,470 --> 02:00:43,440

us about their job is to distract

3195

02:00:48,390 --> 02:00:46,480

but uh if that's not the case if we do

3196

02:00:51,830 --> 02:00:48,400

ultimately land on

3197

02:00:54,470 --> 02:00:51,840

it's not human and and then not not ours

3198

02:00:57,270 --> 02:00:54,480

and not uh an adversaries

3199

02:00:59,990 --> 02:00:57,280

non-human becomes the last option and i

3200

02:01:01,910 --> 02:01:00,000

think this 2022 may be the year that

3201

02:01:03,669 --> 02:01:01,920

that breaks open and i've never said

3202

02:01:05,510 --> 02:01:03,679

that i've been following as i said i've

3203

02:01:08,310 --> 02:01:05,520

been following this topic and next year

3204

02:01:09,910 --> 02:01:08,320

it'll be 45 years of my life and i never

3205

02:01:11,830 --> 02:01:09,920

felt that was coming other than when i

3206

02:01:13,109 --> 02:01:11,840

was a little kid and i saw in search

3207

02:01:15,030 --> 02:01:13,119

everyone okay we're going to get the

3208

02:01:17,270 --> 02:01:15,040

truth about ufos because the guy just

3209

02:01:19,350 --> 02:01:17,280

said it and i'm 11 years old but in the

3210

02:01:20,709 --> 02:01:19,360

time in between even after stephen

3211

02:01:23,109 --> 02:01:20,719

greer's uh

3212

02:01:24,790 --> 02:01:23,119

press club event other big things that

3213

02:01:27,030 --> 02:01:24,800

have happened

3214

02:01:29,109 --> 02:01:27,040

the wilson davis documents coming out

3215

02:01:31,589 --> 02:01:29,119

all of these sort of things i just never

3216

02:01:33,830 --> 02:01:31,599

felt like we were on the precipice i

3217

02:01:37,189 --> 02:01:33,840

think with nasa looking at it with

3218

02:01:40,390 --> 02:01:37,199

galileo looking at it with the military

3219

02:01:42,870 --> 02:01:40,400

looking at it with maybe a congressional

3220

02:01:45,350 --> 02:01:42,880

office set up through the gillibrand

3221

02:01:47,430 --> 02:01:45,360

amendment i think too many people are

3222

02:01:49,030 --> 02:01:47,440

looking and i think we've proven that

3223

02:01:51,350 --> 02:01:49,040

the phenomenon is real it's a

3224

02:01:53,430 --> 02:01:51,360

phenomenon's real and that many people

3225

02:01:55,189 --> 02:01:53,440

are looking somebody's going to figure

3226

02:01:57,270 --> 02:01:55,199

it out and i think we're on the

3227

02:02:00,790 --> 02:01:57,280

precipice of that answer

3228

02:02:03,270 --> 02:02:00,800

i love that man well okay so that gives

3229

02:02:05,189 --> 02:02:03,280

me hope with ufos how about alien life

3230

02:02:07,030 --> 02:02:05,199

what are you looking forward to most in

3231

02:02:07,990 --> 02:02:07,040

the search for that

3232

02:02:11,189 --> 02:02:08,000

so much

3233

02:02:13,350 --> 02:02:11,199

this is so crazy ryan in many ways

3234

02:02:15,910 --> 02:02:13,360

there's a race right when we were little

3235

02:02:17,430 --> 02:02:15,920

kids and there were ufo reports and

3236

02:02:18,709 --> 02:02:17,440

people go what can't be secret

3237

02:02:20,550 --> 02:02:18,719

technology because we're just not

3238

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

evolved enough right like what we're

3239

02:02:23,750 --> 02:02:22,400

still fry you know we're barely getting

3240

02:02:25,830 --> 02:02:23,760

rockets to the moon we're definitely not

3241

02:02:28,149 --> 02:02:25,840

flying around it at mach 10 with no

3242

02:02:30,070 --> 02:02:28,159

sonic boom or whatever so there was this

3243

02:02:31,270 --> 02:02:30,080

constant move tour well there will be a

3244

02:02:32,709 --> 02:02:31,280

day

3245

02:02:34,950 --> 02:02:32,719

when

3246

02:02:36,950 --> 02:02:34,960

uh technology human technology is so

3247

02:02:39,109 --> 02:02:36,960

sophisticated that you could just

3248

02:02:41,109 --> 02:02:39,119

reliably say ah it's probably a secret

3249

02:02:43,510 --> 02:02:41,119

project and we just don't know about it

3250

02:02:45,270 --> 02:02:43,520

we're getting there but what's happening

3251

02:02:48,070 --> 02:02:45,280

at the same time is

3252

02:02:49,270 --> 02:02:48,080

an entire wave

3253

02:02:51,350 --> 02:02:49,280

of people

3254

02:02:52,709 --> 02:02:51,360

that are my age and younger some a

3255

02:02:55,109 --> 02:02:52,719

little older but

3256

02:02:56,470 --> 02:02:55,119

more or less gen xers

3257

02:02:59,750 --> 02:02:56,480

millennials

3258

02:03:01,910 --> 02:02:59,760

and gen zers are growing up in a world

3259

02:03:03,750 --> 02:03:01,920

where the idea of going to another

3260

02:03:05,109 --> 02:03:03,760

planet is not only not crazy it's

3261

02:03:06,870 --> 02:03:05,119

something we do

3262

02:03:09,109 --> 02:03:06,880

the idea of traveling in space is

3263

02:03:11,589 --> 02:03:09,119

something we do the idea that there are

3264

02:03:14,310 --> 02:03:11,599

planets around other stars is something

3265

02:03:16,310 --> 02:03:14,320

we just know now it's not some that you

3266

02:03:17,350 --> 02:03:16,320

know in the 90s we were still i was an

3267

02:03:20,709 --> 02:03:17,360

adult

3268

02:03:23,189 --> 02:03:20,719

in 1990 still at 21 years old ago are we

3269

02:03:24,870 --> 02:03:23,199

ever gonna find it and by 95 we found

3270

02:03:27,750 --> 02:03:24,880

the first one and now there's thousands

3271

02:03:30,550 --> 02:03:27,760

that we found so the technology and the

3272

02:03:33,109 --> 02:03:30,560

science keeps moving towards

3273

02:03:34,550 --> 02:03:33,119

that discovery and what i think is going

3274

02:03:36,870 --> 02:03:34,560

to happen

3275

02:03:38,709 --> 02:03:36,880

is if we don't get a big ufo

3276

02:03:39,669 --> 02:03:38,719

breakthrough in the next year or two

3277

02:03:41,669 --> 02:03:39,679

years

3278

02:03:44,070 --> 02:03:41,679

it won't matter because science will

3279

02:03:46,310 --> 02:03:44,080

catch up on his own i think the james

3280

02:03:49,030 --> 02:03:46,320

webb telescope i think the giant

3281

02:03:51,669 --> 02:03:49,040

magellan i think the levoir which has

3282

02:03:54,310 --> 02:03:51,679

been proposed to search for earth 2 i

3283

02:03:56,709 --> 02:03:54,320

think all these other observations and

3284

02:03:59,109 --> 02:03:56,719

all of these scientists programs i think

3285

02:04:00,870 --> 02:03:59,119

things like galileo what we're going to

3286

02:04:01,910 --> 02:04:00,880

find is we're going to find multiple

3287

02:04:04,149 --> 02:04:01,920

planets

3288

02:04:05,910 --> 02:04:04,159

with signs of life in their atmosphere

3289

02:04:07,990 --> 02:04:05,920

meaning an atmospheric composition that

3290

02:04:10,069 --> 02:04:08,000

really seems to imply their stuff living

3291

02:04:12,870 --> 02:04:10,079

there and then you get into a real

3292

02:04:15,430 --> 02:04:12,880

simple question if the cosmos is for our

3293

02:04:17,589 --> 02:04:15,440

galaxy is 13 and a half billion years

3294

02:04:19,109 --> 02:04:17,599

old and ursula been around for the last

3295

02:04:21,589 --> 02:04:19,119

four and change

3296

02:04:23,589 --> 02:04:21,599

what about all these planets many of

3297

02:04:25,350 --> 02:04:23,599

which had a big head start on us if we

3298

02:04:27,189 --> 02:04:25,360

start finding signs of life in their

3299

02:04:28,870 --> 02:04:27,199

atmosphere are you going to tell me

3300

02:04:31,109 --> 02:04:28,880

those are more primitive even though

3301

02:04:33,189 --> 02:04:31,119

they got here first i mean if you don't

3302

02:04:35,990 --> 02:04:33,199

believe in evolution baby

3303

02:04:38,229 --> 02:04:36,000

but uh yeah so i think these two worlds

3304

02:04:40,550 --> 02:04:38,239

are getting ready to collide i think we

3305

02:04:42,950 --> 02:04:40,560

are going to find signs of life in the

3306

02:04:45,750 --> 02:04:42,960

atmosphere the planets in the trappist

3307

02:04:48,390 --> 02:04:45,760

system potentially we have seven planets

3308

02:04:50,830 --> 02:04:48,400

to look at there at least four of which

3309

02:04:53,030 --> 02:04:50,840

are probably rocky and in the habitable

3310

02:04:54,950 --> 02:04:53,040

zone and then there are proposed

3311

02:04:58,470 --> 02:04:54,960

missions to send a telescope or

3312

02:05:00,149 --> 02:04:58,480

observatory out to a little over 500 au

3313

02:05:02,149 --> 02:05:00,159

from earth which is an au is the

3314

02:05:03,270 --> 02:05:02,159

distance from earth to the sun and

3315

02:05:05,430 --> 02:05:03,280

without getting into all the

3316

02:05:07,030 --> 02:05:05,440

technicalities when you go out there you

3317

02:05:09,030 --> 02:05:07,040

can take advantage of something called

3318

02:05:11,589 --> 02:05:09,040

gravitational lensing and you can

3319

02:05:13,910 --> 02:05:11,599

directly image a planet so we can send a

3320

02:05:16,470 --> 02:05:13,920

telescope out to this spot and it can

3321

02:05:18,310 --> 02:05:16,480

take pictures of these planets it can

3322

02:05:20,950 --> 02:05:18,320

look right at it imagine you take a

3323

02:05:23,750 --> 02:05:20,960

night picture of trappist-1c

3324

02:05:26,870 --> 02:05:23,760

and you see city lights in there right

3325

02:05:29,109 --> 02:05:26,880

like a map signatures baby yeah right

3326

02:05:31,910 --> 02:05:29,119

and that's coming man those things are

3327

02:05:34,390 --> 02:05:31,920

coming in our lifetime right so even if

3328

02:05:37,270 --> 02:05:34,400

the whole ufo thing just went to crap

3329

02:05:39,270 --> 02:05:37,280

and the military never did anything and

3330

02:05:41,990 --> 02:05:39,280

and avilo came out and said yeah i

3331

02:05:43,910 --> 02:05:42,000

didn't find anything you know and uh and

3332

02:05:45,669 --> 02:05:43,920

nasa came out said yeah it was a bunch

3333

02:05:47,669 --> 02:05:45,679

of weather balloons and everybody had

3334

02:05:49,030 --> 02:05:47,679

told us the worst answer

3335

02:05:50,629 --> 02:05:49,040

i don't think it will matter i think

3336

02:05:52,470 --> 02:05:50,639

we're going to find signs of life

3337

02:05:55,189 --> 02:05:52,480

through good old-fashioned mainstream

3338

02:05:56,870 --> 02:05:55,199

science then what happens if we find the

3339

02:05:58,950 --> 02:05:56,880

signs of life around a thousand

3340

02:06:01,189 --> 02:05:58,960

different planets do we all sit around

3341

02:06:04,470 --> 02:06:01,199

and go none of them have intelligent

3342

02:06:05,750 --> 02:06:04,480

life and they've all evolved after us or

3343

02:06:08,470 --> 02:06:05,760

did we start

3344

02:06:10,390 --> 02:06:08,480

looking at the possibility that in a 14

3345

02:06:12,709 --> 02:06:10,400

billion year old cosmos where we're here

3346

02:06:15,589 --> 02:06:12,719

for the last four that some intelligent

3347

02:06:18,069 --> 02:06:15,599

of life evolved elsewhere

3348

02:06:19,990 --> 02:06:18,079

before us and has the technological

3349

02:06:21,669 --> 02:06:20,000

know-how to come here and visit even if

3350

02:06:25,030 --> 02:06:21,679

it's just with probes which is something

3351

02:06:27,910 --> 02:06:25,040

we do all the stinking time right ah

3352

02:06:30,149 --> 02:06:27,920

that gives me so much hope man i knew

3353

02:06:32,390 --> 02:06:30,159

man i'm not good

3354

02:06:35,189 --> 02:06:32,400

good stuff is coming people science is

3355

02:06:37,030 --> 02:06:35,199

going to answer these questions

3356

02:06:38,870 --> 02:06:37,040

well good stuff is coming chris that's

3357

02:06:41,830 --> 02:06:38,880

how we're going to end it man please

3358

02:06:43,910 --> 02:06:41,840

tell us what comes next for you over at

3359

02:06:47,109 --> 02:06:43,920

the debrief what we can expect in the

3360

02:06:48,629 --> 02:06:47,119

coming week month maybe and um yeah

3361

02:06:50,310 --> 02:06:48,639

where we can find everything you're up

3362

02:06:52,550 --> 02:06:50,320

to tease us a little bit if you don't

3363

02:06:54,790 --> 02:06:52,560

you see me on twitter tomorrow tell me

3364

02:06:57,189 --> 02:06:54,800

chris quit tweeting and go back to work

3365

02:06:59,030 --> 02:06:57,199

because i have all the information came

3366

02:07:00,229 --> 02:06:59,040

in today the last

3367

02:07:03,430 --> 02:07:00,239

photos

3368

02:07:06,709 --> 02:07:03,440

uh videos links everything i needed for

3369

02:07:08,229 --> 02:07:06,719

the warp bubble story is in my hand

3370

02:07:10,069 --> 02:07:08,239

so tomorrow

3371

02:07:12,629 --> 02:07:10,079

when i wake up and i have my first

3372

02:07:14,870 --> 02:07:12,639

couple cups of alzheimer's preventing

3373

02:07:16,229 --> 02:07:14,880

diabetes fighting coffee

3374

02:07:17,910 --> 02:07:16,239

i will get launched into the

3375

02:07:20,870 --> 02:07:17,920

stratosphere and i will finish that

3376

02:07:23,030 --> 02:07:20,880

story i will turn it into mj and he will

3377

02:07:25,669 --> 02:07:23,040

either run it on thursday friday or

3378

02:07:28,069 --> 02:07:25,679

monday depending on his whims times and

3379

02:07:30,870 --> 02:07:28,079

availability but i can tell you that a

3380

02:07:33,109 --> 02:07:30,880

story i've been excited about the story

3381

02:07:35,270 --> 02:07:33,119

i couldn't believe it when the research

3382

02:07:37,750 --> 02:07:35,280

excuse me when the researcher involved

3383

02:07:40,229 --> 02:07:37,760

told me about it is finally here i've

3384

02:07:42,470 --> 02:07:40,239

been working on it since august pretty

3385

02:07:44,790 --> 02:07:42,480

much and i am

3386

02:07:46,629 --> 02:07:44,800

a day two days away from turning that

3387

02:07:48,470 --> 02:07:46,639

sucker in so that's why i agreed to come

3388

02:07:51,510 --> 02:07:48,480

on here today and and go on mike's show

3389

02:07:53,990 --> 02:07:51,520

on thursday that big sucker's coming

3390

02:07:56,790 --> 02:07:54,000

i have some potential

3391

02:07:57,990 --> 02:07:56,800

gravity anti-gravity sort of stories

3392

02:07:59,669 --> 02:07:58,000

coming

3393

02:08:01,669 --> 02:07:59,679

and

3394

02:08:03,990 --> 02:08:01,679

i know the guys over there that report

3395

02:08:05,910 --> 02:08:04,000

on uap type stuff are working on stuff

3396

02:08:07,990 --> 02:08:05,920

so stuff is coming

3397

02:08:09,910 --> 02:08:08,000

we're always working we're always always

3398

02:08:12,310 --> 02:08:09,920

working it's never a dull moment at the

3399

02:08:14,550 --> 02:08:12,320

debrief so again everything can be found

3400

02:08:17,430 --> 02:08:14,560

at thedebrief.org

3401
02:08:19,350 --> 02:08:17,440
everything chris is doing uh tim

3402
02:08:21,750 --> 02:08:19,360
micah mj me

3403
02:08:23,750 --> 02:08:21,760
um my girlfriend is written excuse me my

3404
02:08:25,990 --> 02:08:23,760
fiance is written for the debrief as

3405
02:08:27,109 --> 02:08:26,000
well jane you can check out her stuff

3406
02:08:29,510 --> 02:08:27,119
over there

3407
02:08:32,229 --> 02:08:29,520
and everyone else we have a lot of new

3408
02:08:34,550 --> 02:08:32,239
faces and names over there as well um

3409
02:08:36,709 --> 02:08:34,560
always looking for writers so hit up mj

3410
02:08:38,629 --> 02:08:36,719
hit up chris if you're interested in any

3411
02:08:40,790 --> 02:08:38,639
of the topics we discussed tonight and

3412
02:08:42,470 --> 02:08:40,800
you think you you've got what it takes

3413
02:08:44,709 --> 02:08:42,480

to write for the debrief we would love

3414

02:08:47,189 --> 02:08:44,719

to have you we are paying writers this

3415

02:08:48,709 --> 02:08:47,199

is not a volunteer job so if if you have

3416

02:08:51,149 --> 02:08:48,719

skills in writing about science and

3417

02:08:53,510 --> 02:08:51,159

you're interested reach out to mj

3418

02:08:56,069 --> 02:08:53,520

thedebrief.org or you can dm me on

3419

02:08:57,750 --> 02:08:56,079

twitter or christopher at the debrief

3420

02:08:59,589 --> 02:08:57,760

and i'll hook you up with him and if

3421

02:09:01,430 --> 02:08:59,599

you've got the goods he'll put you to

3422

02:09:03,350 --> 02:09:01,440

work right we've added a bunch of

3423

02:09:05,430 --> 02:09:03,360

writers in the last couple of months uh

3424

02:09:07,990 --> 02:09:05,440

we've added some more youtube content

3425

02:09:10,149 --> 02:09:08,000

creators so uh 2022 is going to be the

3426

02:09:12,149 --> 02:09:10,159

biggest year yet for the debrief

3427

02:09:15,350 --> 02:09:12,159

seniors how it's our second year

3428

02:09:17,350 --> 02:09:15,360

yep happy birthday to the debrief chris

3429

02:09:19,830 --> 02:09:17,360

i'm gonna let you go brother before i do

3430

02:09:21,910 --> 02:09:19,840

my little ending spiel here but thank

3431

02:09:24,310 --> 02:09:21,920

you thank you for being so gracious with

3432

02:09:26,470 --> 02:09:24,320

your time and and teasing us with all of

3433

02:09:29,030 --> 02:09:26,480

your amazing articles please everyone go

3434

02:09:31,589 --> 02:09:29,040

read them they're so in-depth and so

3435

02:09:34,229 --> 02:09:31,599

well researched and he has some amazing

3436

02:09:36,550 --> 02:09:34,239

interviews exclusive interviews with a

3437

02:09:39,189 --> 02:09:36,560

lot of people over there so yeah one

3438

02:09:41,510 --> 02:09:39,199

thing ryan yeah one last thing if you're

3439

02:09:43,350 --> 02:09:41,520

a fan of ryan sprague

3440

02:09:45,589 --> 02:09:43,360

i wrote a feature

3441

02:09:47,589 --> 02:09:45,599

called canadians hate thanksgiving and

3442

02:09:49,910 --> 02:09:47,599

four other things bizarre things i

3443

02:09:52,149 --> 02:09:49,920

learned while working at the debris

3444

02:09:54,390 --> 02:09:52,159

up there for a few days and there's a

3445

02:09:56,550 --> 02:09:54,400

section in there that says i want to

3446

02:09:59,350 --> 02:09:56,560

come back in my next life is ryan

3447

02:10:01,510 --> 02:09:59,360

sprague and i lay out the case and i i

3448

02:10:04,390 --> 02:10:01,520

beg anyone to read that and argue with

3449

02:10:06,629 --> 02:10:04,400

me because dude is living his best life

3450

02:10:08,950 --> 02:10:06,639

don't get me wrong i make great cases

3451
02:10:11,830 --> 02:10:08,960
for coming back as christina gomez and

3452
02:10:14,470 --> 02:10:11,840
micah hanks too but when push came to

3453
02:10:16,870 --> 02:10:14,480
shove it spread first and everyone else

3454
02:10:19,189 --> 02:10:16,880
follows behind so you live in the life

3455
02:10:20,709 --> 02:10:19,199
man keep doing what you do can't tell

3456
02:10:23,109 --> 02:10:20,719
you how happy i am to hear that you're

3457
02:10:24,709 --> 02:10:23,119
writing screenplays every time i see

3458
02:10:27,510 --> 02:10:24,719
that stuff on twitter and you're writing

3459
02:10:29,350 --> 02:10:27,520
plays again dude put that passion in

3460
02:10:31,510 --> 02:10:29,360
that heart into it that's where the

3461
02:10:33,589 --> 02:10:31,520
magic happens with you and that computer

3462
02:10:35,990 --> 02:10:33,599
and that screen you have the ability to

3463
02:10:37,510 --> 02:10:36,000

make magic ryan so i i can't wait to see

3464

02:10:39,270 --> 02:10:37,520

what you come up with

3465

02:10:41,510 --> 02:10:39,280

thank you chris and i can't wait to see

3466

02:10:43,669 --> 02:10:41,520

what you come up with as well brother so

3467

02:10:46,310 --> 02:10:43,679

again thank you thank you for joining me

3468

02:10:48,950 --> 02:10:46,320

today and of course have a great night

3469

02:10:50,870 --> 02:10:48,960

and get back to work all right right

3470

02:10:52,629 --> 02:10:50,880

right warp story

3471

02:10:55,109 --> 02:10:52,639

write it get it out all right brother

3472

02:10:58,390 --> 02:10:55,119

have a great night thanks brother take

3473

02:11:01,750 --> 02:10:59,350

wow

3474

02:11:03,750 --> 02:11:01,760

that was a hell of a show guys hell a

3475

02:11:06,550 --> 02:11:03,760

yes from ucr

3476

02:11:08,069 --> 02:11:06,560

um that was incredible we got through

3477

02:11:10,870 --> 02:11:08,079

almost every story i wanted to cover

3478

02:11:13,990 --> 02:11:10,880

with chris over at the debrief um we

3479

02:11:16,709 --> 02:11:14,000

missed one i think critical to life

3480

02:11:18,390 --> 02:11:16,719

signs of water found in distant galaxies

3481

02:11:21,030 --> 02:11:18,400

so go check that one out at the

3482

02:11:22,550 --> 02:11:21,040

debrief.org again i want to thank chris

3483

02:11:25,030 --> 02:11:22,560

for coming on the show tonight i want to

3484

02:11:27,910 --> 02:11:25,040

thank all of you who contributed to the

3485

02:11:30,550 --> 02:11:27,920

super chat and uh asked your questions

3486

02:11:32,149 --> 02:11:30,560

they were awesome um i'm gonna try to do

3487

02:11:34,709 --> 02:11:32,159

these more guys these live streams

3488

02:11:37,189 --> 02:11:34,719

they're so much fun and i love just

3489

02:11:39,510 --> 02:11:37,199

building this community of curious and

3490

02:11:42,069 --> 02:11:39,520

rebelliously curious minds if chrissy

3491

02:11:43,990 --> 02:11:42,079

newton is still watching or listening

3492

02:11:46,229 --> 02:11:44,000

and um thank you thank you for joining

3493

02:11:47,669 --> 02:11:46,239

me tonight um you know it's getting late

3494

02:11:49,990 --> 02:11:47,679

here on the east coast so i really

3495

02:11:52,390 --> 02:11:50,000

appreciate your time and everything

3496

02:11:54,709 --> 02:11:52,400

again if you do drink coffee and you

3497

02:11:56,790 --> 02:11:54,719

want to prevent alzheimer's go check out

3498

02:11:58,229 --> 02:11:56,800

black triangle coffee check out their

3499

02:12:00,390 --> 02:11:58,239

merch check out these somewhere in the

3500

02:12:03,189 --> 02:12:00,400

skies exclusive coffee at

3501

02:12:04,229 --> 02:12:03,199

blacktrianglecoffee.com

3502

02:12:05,910 --> 02:12:04,239

um

3503

02:12:07,750 --> 02:12:05,920

if you want to join the patreon campaign

3504

02:12:10,790 --> 02:12:07,760

we have a patreon where you get bonus

3505

02:12:13,550 --> 02:12:10,800

episodes and uh content and merch and

3506

02:12:15,510 --> 02:12:13,560

stuff like that over there at uh

3507

02:12:17,830 --> 02:12:15,520

patreon.com

3508

02:12:21,109 --> 02:12:17,840

somewhereskies um i would really

3509

02:12:22,390 --> 02:12:21,119

appreciate any and all support there to

3510

02:12:25,350 --> 02:12:22,400

keep the show

3511

02:12:28,149 --> 02:12:25,360

uh growing and um more

3512

02:12:31,030 --> 02:12:28,159

more so i don't have to uh tend bar so i

3513

02:12:33,910 --> 02:12:31,040

don't have to make coffee drinks um yeah

3514

02:12:35,350 --> 02:12:33,920

i i love doing this sort of stuff and um

3515

02:12:38,149 --> 02:12:35,360

i love that you guys are willing to take

3516

02:12:40,470 --> 02:12:38,159

the journey with me so i will leave you

3517

02:12:41,990 --> 02:12:40,480

with that we have an awesome episode of

3518

02:12:45,990 --> 02:12:42,000

somewhere in the skies that just

3519

02:12:48,709 --> 02:12:46,000

released yesterday a our 18th 18th

3520

02:12:51,189 --> 02:12:48,719

volume of witness accounts these are our

3521

02:12:53,109 --> 02:12:51,199

most highly downloaded episodes of

3522

02:12:55,669 --> 02:12:53,119

summer in the skies and this is just

3523

02:12:58,390 --> 02:12:55,679

where you come on the show and tell your

3524

02:13:00,629 --> 02:12:58,400

ufo story in your own words i don't

3525

02:13:02,629 --> 02:13:00,639

interrupt i don't get involved it's just

3526

02:13:04,709 --> 02:13:02,639

you telling your story how it affected

3527

02:13:07,189 --> 02:13:04,719

your life and what you saw what you

3528

02:13:09,589 --> 02:13:07,199

think you saw and um we had some pretty

3529

02:13:12,149 --> 02:13:09,599

powerful stories in this one we had an

3530

02:13:14,310 --> 02:13:12,159

air force guy telling a story about ufos

3531

02:13:16,709 --> 02:13:14,320

going over a flight line on an air force

3532

02:13:19,270 --> 02:13:16,719

base uh we had a guy in scotland telling

3533

02:13:22,229 --> 02:13:19,280

us about a ufo we saw over a body of uh

3534

02:13:25,589 --> 02:13:22,239

water in scotland uh ufos over a

3535

02:13:28,229 --> 02:13:25,599

graveyard and um ufos over a castle on

3536

02:13:30,709 --> 02:13:28,239

an island in italy it's just it's one of

3537

02:13:32,709 --> 02:13:30,719

the best witness accounts episodes i

3538

02:13:34,950 --> 02:13:32,719

think we've done so far so i hope you

3539

02:13:37,830 --> 02:13:34,960

will go check that out wherever you get

3540

02:13:40,149 --> 02:13:37,840

podcasts what else um

3541

02:13:43,030 --> 02:13:40,159

we're gonna have a really cool episode

3542

02:13:45,830 --> 02:13:43,040

coming up about a

3543

02:13:47,750 --> 02:13:45,840

i would say obscure ufo encounter that

3544

02:13:51,350 --> 02:13:47,760

happened to a police officer named

3545

02:13:54,310 --> 02:13:51,360

george wheeler um where possibly this

3546

02:13:56,310 --> 02:13:54,320

was a fatal encounter with the ufo a

3547

02:13:58,629 --> 02:13:56,320

little scary uh so we will definitely

3548

02:14:00,229 --> 02:13:58,639

touch on that very controversial case in

3549

02:14:02,149 --> 02:14:00,239

an upcoming episode of summer in the

3550

02:14:06,390 --> 02:14:02,159

skies uh but that's all i got for you

3551

02:14:09,149 --> 02:14:06,400

guys so um yeah check us out at um on

3552

02:14:12,069 --> 02:14:09,159

twitter at summer skies on instagram

3553

02:14:13,750 --> 02:14:12,079

somewhereskiespod and thank you thank

3554

02:14:17,189 --> 02:14:13,760

you for joining us tonight byron

3555

02:14:18,870 --> 02:14:17,199

nightgazer ucr rodrigo everyone in the

3556

02:14:21,510 --> 02:14:18,880

chat warlock i really appreciate your

3557

02:14:24,470 --> 02:14:21,520

time matthew riot and um that's all i

3558

02:14:26,709 --> 02:14:24,480

got guys have a great night happy

3559

02:14:29,030 --> 02:14:26,719

holiday season we're gonna have a very

3560

02:14:31,030 --> 02:14:29,040

special charity event going on at summer

3561

02:14:34,149 --> 02:14:31,040

in the skies which i will be announcing

3562

02:14:36,310 --> 02:14:34,159

tomorrow december 1st uh yeah i believe

3563

02:14:37,830 --> 02:14:36,320

tomorrow is december 1st so be on the

3564

02:14:40,310 --> 02:14:37,840

lookout for that as well and how you can

3565

02:14:42,390 --> 02:14:40,320

help a very amazing organization and

3566

02:14:44,470 --> 02:14:42,400

help the show as well

3567

02:14:46,550 --> 02:14:44,480

have a great night or morning wherever

3568

02:14:48,870 --> 02:14:46,560

you are right now to all my european

3569

02:14:51,510 --> 02:14:48,880

listeners and uh remember keep your feet

3570

02:14:53,030 --> 02:14:51,520

on the ground but never stop searching

3571

02:14:55,830 --> 02:14:53,040

somewhere in the skies