



1
00:00:07,760 --> 00:00:03,290
hi everyone welcome to podcast UFO 4

2
00:00:10,120 --> 00:00:07,770
episode number 22 with dr. Seth Shostak

3
00:00:13,669 --> 00:00:10,130
he is the senior astronomer at SETI

4
00:00:16,189 --> 00:00:13,679
listen in for a friendly debate on UFOs

5
00:00:18,980 --> 00:00:16,199
a couple of announcements you can follow

6
00:00:21,260 --> 00:00:18,990
us on Twitter or you can like us on our

7
00:00:23,630 --> 00:00:21,270
brand new Facebook page and those icons

8
00:00:27,380 --> 00:00:23,640
are right on our website if you'd like

9
00:00:30,200 --> 00:00:27,390
to contact me that's info at podcast UFO

10
00:00:45,890 --> 00:00:30,210
comm thank you for listening and I hope

11
00:00:54,030 --> 00:00:50,010
hi everyone I'm on skype with senior

12
00:00:56,880 --> 00:00:54,040
astronomer of SETI dr. Seth Shostak how

13
00:00:58,140 --> 00:00:56,890

are you Seth just fine Martin and I'm

14

00:01:00,900 --> 00:00:58,150

calling you in Mountain View are you

15

00:01:03,060 --> 00:01:00,910

California I am yes harder the Silicon

16

00:01:05,969 --> 00:01:03,070

Valley or maybe just it's the pancreas

17

00:01:08,190 --> 00:01:05,979

of the Silicon Valley I actually lived

18

00:01:09,780 --> 00:01:08,200

north of there and there I remember

19

00:01:12,719 --> 00:01:09,790

Mountain View as some beautiful homes

20

00:01:14,730 --> 00:01:12,729

really nice area it's not too bad we

21

00:01:15,750 --> 00:01:14,740

have you know the Googleplex is here

22

00:01:17,609 --> 00:01:15,760

that a lot of other companies that

23

00:01:20,219 --> 00:01:17,619

people may have heard of if they're

24

00:01:22,230 --> 00:01:20,229

among the digerati yes it's a nice place

25

00:01:25,040 --> 00:01:22,240

yes I lived in Tiburon north of there

26

00:01:27,480 --> 00:01:25,050

that's even nicer sounds pretty nice I

27

00:01:29,999 --> 00:01:27,490

would like to talk to you about UFOs

28

00:01:31,530 --> 00:01:30,009

quite a bit today but first of all I'm

29

00:01:33,540 --> 00:01:31,540

thrilled to have an astronomer on

30

00:01:36,030 --> 00:01:33,550

because I've been a fan of astronomy

31

00:01:37,950 --> 00:01:36,040

before we talk about UFOs there's just a

32

00:01:39,540 --> 00:01:37,960

couple of questions I have I'm going to

33

00:01:41,160 --> 00:01:39,550

be a little bit hypothetical here and

34

00:01:43,170 --> 00:01:41,170

there but do you ever think there's a

35

00:01:45,139 --> 00:01:43,180

chance another theory will come along

36

00:01:48,210 --> 00:01:45,149

that'll just prove the Big Bang Theory

37

00:01:50,940 --> 00:01:48,220

well you know one should never say never

38

00:01:55,080 --> 00:01:50,950

when it comes to such things but the

39

00:01:56,760 --> 00:01:55,090

history of science and in particular the

40

00:01:58,290 --> 00:01:56,770

evidence that's presented for the Big

41

00:02:00,990 --> 00:01:58,300

Bang suggests that the Big Bang

42

00:02:03,749 --> 00:02:01,000

yes is it's going to survive now it's

43

00:02:07,880 --> 00:02:03,759

undoubtedly gonna be modified it's it's

44

00:02:10,350 --> 00:02:07,890

somewhat akin I think to Newton's

45

00:02:12,020 --> 00:02:10,360

dynamics you know when Newton worked out

46

00:02:14,130 --> 00:02:12,030

the law of gravitation and what kept the

47

00:02:17,190 --> 00:02:14,140

planets in orbit and that sort of thing

48

00:02:19,500 --> 00:02:17,200

back in around 1600 whatever all right

49

00:02:21,900 --> 00:02:19,510

that you know explained a lot of things

50

00:02:23,640 --> 00:02:21,910

it wasn't quite right it turns out it

51
00:02:25,350 --> 00:02:23,650
didn't include general relativity he

52
00:02:27,000 --> 00:02:25,360
didn't know about that and general

53
00:02:29,910 --> 00:02:27,010
relativity makes some slight

54
00:02:33,240 --> 00:02:29,920
modifications to Newton's laws but

55
00:02:35,160 --> 00:02:33,250
Newton works you know in 99.9% of all

56
00:02:37,170 --> 00:02:35,170
the cases that are germane to for

57
00:02:39,059 --> 00:02:37,180
example engineering here on earth and

58
00:02:41,550 --> 00:02:39,069
even for explaining the motions of the

59
00:02:44,100 --> 00:02:41,560
planets they're you know very very good

60
00:02:46,710 --> 00:02:44,110
so you know it isn't that Newton was

61
00:02:50,430 --> 00:02:46,720
really wrong or that you know the whole

62
00:02:52,020 --> 00:02:50,440
idea was was overthrown later it was

63
00:02:53,550 --> 00:02:52,030

simply modified I think in the case of

64

00:02:55,230 --> 00:02:53,560

the Big Bang you know there things about

65

00:02:56,970 --> 00:02:55,240

the Big Bang we don't understand the

66

00:02:58,140 --> 00:02:56,980

early inflation and so forth seems to

67

00:02:59,880 --> 00:02:58,150

explain stuff and

68

00:03:01,770 --> 00:02:59,890

this that and the other will it go away

69

00:03:04,170 --> 00:03:01,780

I don't think so because you can see the

70

00:03:06,089 --> 00:03:04,180

the universe is expanding you know you

71

00:03:07,770 --> 00:03:06,099

can see the the fact that there's so

72

00:03:09,839 --> 00:03:07,780

much helium in the universe and so forth

73

00:03:12,030 --> 00:03:09,849

and so on there are all these pieces of

74

00:03:14,039 --> 00:03:12,040

evidence that support the Big Bang it

75

00:03:17,610 --> 00:03:14,049

will be modified but I don't think it's

76

00:03:19,110 --> 00:03:17,620

going away now if you had to come up

77

00:03:20,910 --> 00:03:19,120

with something of what was happening

78

00:03:23,849 --> 00:03:20,920

before the Big Bang what would that be

79

00:03:26,789 --> 00:03:23,859

and then we can move on to before the

80

00:03:28,679 --> 00:03:26,799

Big Bang yeah actually we're we're gonna

81

00:03:32,099 --> 00:03:28,689

do a show about that with that exact

82

00:03:33,569 --> 00:03:32,109

title actually for our weekly sideshow

83

00:03:35,430 --> 00:03:33,579

here a big picture science action and

84

00:03:38,250 --> 00:03:35,440

but the thing is nobody knows they're

85

00:03:41,069 --> 00:03:38,260

there all sorts of scenarios and and and

86

00:03:44,220 --> 00:03:41,079

the most I think trendy answer to your

87

00:03:47,849 --> 00:03:44,230

question these days is probably the idea

88

00:03:50,009 --> 00:03:47,859

that there is sort of endless inflation

89

00:03:52,259 --> 00:03:50,019

in other words endless Big Bang's going

90

00:03:55,080 --> 00:03:52,269

on all the time in our universe or

91

00:03:57,119 --> 00:03:55,090

perhaps other universes and that you

92

00:03:58,649 --> 00:03:57,129

know the Big Bang while very dramatic

93

00:04:01,020 --> 00:03:58,659

for us you know that kind of thing

94

00:04:04,379 --> 00:04:01,030

happens all the time we're not the only

95

00:04:05,789 --> 00:04:04,389

place in the sort of meta cosmos where

96

00:04:07,170 --> 00:04:05,799

there's been a big bang that these

97

00:04:08,939 --> 00:04:07,180

things happen all the time and in fact

98

00:04:10,379 --> 00:04:08,949

you know you might cause a big bang

99

00:04:12,119 --> 00:04:10,389

right there in the room you're sitting

100

00:04:14,399 --> 00:04:12,129

in if you only knew how to twist time

101
00:04:16,409 --> 00:04:14,409
and space the right way you might cause

102
00:04:17,640 --> 00:04:16,419
the creation of a whole new universe of

103
00:04:19,170 --> 00:04:17,650
course you wouldn't see it you wouldn't

104
00:04:20,339 --> 00:04:19,180
be able to get into it but you know you

105
00:04:22,020 --> 00:04:20,349
could do that and maybe that's what's

106
00:04:24,839 --> 00:04:22,030
happening we're just another ant in the

107
00:04:27,960 --> 00:04:24,849
ant colony that's possible mm-hmm

108
00:04:30,089 --> 00:04:27,970
now I've heard you say that astronomy is

109
00:04:32,969 --> 00:04:30,099
an observational science which makes

110
00:04:35,610 --> 00:04:32,979
perfect sense to me our solar system is

111
00:04:38,149 --> 00:04:35,620
on the young side wouldn't you say as

112
00:04:40,920 --> 00:04:38,159
far as other solar systems in our galaxy

113
00:04:42,420 --> 00:04:40,930

well yeah I mean the solar system is

114

00:04:47,040 --> 00:04:42,430

four-and-a-half billion years old the

115

00:04:48,810 --> 00:04:47,050

the the universe is 13.7 billion years

116

00:04:50,939 --> 00:04:48,820

old something like that our galaxy is

117

00:04:53,370 --> 00:04:50,949

probably 12 billion years old so yeah

118

00:04:56,129 --> 00:04:53,380

art our solar system has appeared in the

119

00:04:58,339 --> 00:04:56,139

last if you will 35 percent of the

120

00:05:01,140 --> 00:04:58,349

history of our galaxy so it's a

121

00:05:04,439 --> 00:05:01,150

relatively new kid on the block mm-hmm

122

00:05:06,600 --> 00:05:04,449

so with that in mind wouldn't you say

123

00:05:10,409 --> 00:05:06,610

that it is very possible that we could

124

00:05:11,730 --> 00:05:10,419

be visited by other civilizations well

125

00:05:13,620 --> 00:05:11,740

it doesn't violate anything

126

00:05:15,300 --> 00:05:13,630

I mean there are probably civilizations

127

00:05:17,880 --> 00:05:15,310

out there that are way in advance of

128

00:05:19,650 --> 00:05:17,890

ours so yeah I mean it's certainly

129

00:05:21,330 --> 00:05:19,660

possible I don't actually think that

130

00:05:22,530 --> 00:05:21,340

there's much controversy about that I've

131

00:05:25,200 --> 00:05:22,540

never heard anybody say it it's

132

00:05:27,750 --> 00:05:25,210

impossible I never hear that argument

133

00:05:29,370 --> 00:05:27,760

the argument against being visited

134

00:05:30,840 --> 00:05:29,380

actually doesn't have to do with the

135

00:05:33,810 --> 00:05:30,850

physics of whether it's possible it has

136

00:05:35,250 --> 00:05:33,820

mostly to do with the evidence and what

137

00:05:38,250 --> 00:05:35,260

type of evidence do you think would be

138

00:05:40,620 --> 00:05:38,260

good enough well I think you just have

139

00:05:42,900 --> 00:05:40,630

to look at historic precedent for that

140

00:05:45,990 --> 00:05:42,910

you know I often like to say you know

141

00:05:49,860 --> 00:05:46,000

it's been what 65 years since Roswell

142

00:05:52,320 --> 00:05:49,870

one of the more celebrated incidents

143

00:05:53,790 --> 00:05:52,330

which some people believe show that the

144

00:05:57,060 --> 00:05:53,800

aliens were trying to visit or something

145

00:05:58,590 --> 00:05:57,070

now if you add 65 years to 1492 what do

146

00:06:01,020 --> 00:05:58,600

you come up with fifteen fifty seven or

147

00:06:03,090 --> 00:06:01,030

something like that if you ask the North

148

00:06:04,380 --> 00:06:03,100

American natives the Indians here hey do

149

00:06:06,410 --> 00:06:04,390

you think you're visiting being visited

150

00:06:11,640 --> 00:06:06,420

by Spaniards and you ask them that in

151
00:06:13,800 --> 00:06:11,650
1557 that wouldn't be an an ambiguous

152
00:06:15,870 --> 00:06:13,810
thing to discuss they would know that

153
00:06:17,730 --> 00:06:15,880
the answer was yes because there are

154
00:06:19,230 --> 00:06:17,740
some right over there and by the way

155
00:06:21,150 --> 00:06:19,240
there's a cathedral the building down

156
00:06:22,890 --> 00:06:21,160
the street here and by the way a whole

157
00:06:25,320 --> 00:06:22,900
bunch of us have died from some European

158
00:06:27,030 --> 00:06:25,330
diseases and and and others are slaves

159
00:06:30,420 --> 00:06:27,040
and so the evidence was absolutely

160
00:06:31,830 --> 00:06:30,430
overwhelming now so if you ask well what

161
00:06:33,450 --> 00:06:31,840
sort of evidence would prove that we're

162
00:06:35,400 --> 00:06:33,460
being visited I would say something that

163
00:06:37,440 --> 00:06:35,410

you could stack up in the Smithsonian at

164

00:06:39,420 --> 00:06:37,450

least I would think it would be much

165

00:06:41,730 --> 00:06:39,430

much more than that but but let's say at

166

00:06:44,640 --> 00:06:41,740

a minimum something that you know you

167

00:06:47,700 --> 00:06:44,650

could put in the local science museum so

168

00:06:49,740 --> 00:06:47,710

you wouldn't consider witnesses so many

169

00:06:52,680 --> 00:06:49,750

witnesses say for instance astronaut

170

00:06:55,350 --> 00:06:52,690

Gordon Cooper and former governor Fife

171

00:06:56,670 --> 00:06:55,360

Symington and people like that what

172

00:06:59,070 --> 00:06:56,680

would you say about them being as

173

00:07:00,480 --> 00:06:59,080

observers oh well I don't think that

174

00:07:02,400 --> 00:07:00,490

they're professional observers I mean

175

00:07:04,350 --> 00:07:02,410

it's it's not that I'm impugning their

176

00:07:06,180 --> 00:07:04,360

integrity I've talked with a lot of the

177

00:07:07,980 --> 00:07:06,190

astronauts either Mitchell and Gene

178

00:07:09,630 --> 00:07:07,990

Cernan and all these guys you know and

179

00:07:11,580 --> 00:07:09,640

if you talk to them about these things

180

00:07:12,780 --> 00:07:11,590

to begin with usually it's secondhand

181

00:07:14,580 --> 00:07:12,790

they haven't actually seen these things

182

00:07:16,230 --> 00:07:14,590

themselves they heard somebody else talk

183

00:07:17,850 --> 00:07:16,240

about it but even if they have seen them

184

00:07:19,350 --> 00:07:17,860

themselves you know story Musgrave

185

00:07:21,690 --> 00:07:19,360

thought he heard the aliens and the

186

00:07:24,300 --> 00:07:21,700

muffin fans in the in the space shuttle

187

00:07:24,710 --> 00:07:24,310

okay I I don't think he's lying I don't

188

00:07:27,230 --> 00:07:24,720

think he

189

00:07:28,880 --> 00:07:27,240

making something up but I don't consider

190

00:07:30,710 --> 00:07:28,890

that very good evidence and in fact

191

00:07:32,240 --> 00:07:30,720

anybody who's in forensics will tell you

192

00:07:33,700 --> 00:07:32,250

that witness testimony is about the

193

00:07:36,830 --> 00:07:33,710

poorest kind of evidence there is

194

00:07:38,420 --> 00:07:36,840

particularly in science in science just

195

00:07:40,310 --> 00:07:38,430

because somebody thinks they've seen

196

00:07:41,750 --> 00:07:40,320

something that doesn't prove its

197

00:07:44,030 --> 00:07:41,760

existence all it means is that they've

198

00:07:46,880 --> 00:07:44,040

seen something you know capital cases

199

00:07:48,710 --> 00:07:46,890

homicide cases in the courts witness

200

00:07:50,720 --> 00:07:48,720

testimony never sends anybody to the

201
00:07:52,220 --> 00:07:50,730
chair right unless you got twenty weeks

202
00:07:54,050 --> 00:07:52,230
since there's something like that all

203
00:07:56,540 --> 00:07:54,060
saying the same thing in all independent

204
00:07:58,250 --> 00:07:56,550
it's it's it's very poor evidence what

205
00:08:00,650 --> 00:07:58,260
you need is physical evidence how about

206
00:08:02,440 --> 00:08:00,660
the landing trace evidence for instance

207
00:08:04,430 --> 00:08:02,450
Bentwaters are you familiar with that

208
00:08:07,370 --> 00:08:04,440
well are you talking about the

209
00:08:09,380 --> 00:08:07,380
Rendlesham forest mm-hmm yeah no I've

210
00:08:11,510 --> 00:08:09,390
read a lot about that and I've actually

211
00:08:13,610 --> 00:08:11,520
been to the Rendlesham forest and I

212
00:08:15,590 --> 00:08:13,620
don't see anything there that that in

213
00:08:16,820 --> 00:08:15,600

the slightest convinces me that aliens

214

00:08:17,960 --> 00:08:16,830

were involved there

215

00:08:19,700 --> 00:08:17,970

you know there's explanation for

216

00:08:22,280 --> 00:08:19,710

everything that occurred in the

217

00:08:24,920 --> 00:08:22,290

Rendlesham forest incident that doesn't

218

00:08:26,690 --> 00:08:24,930

involve aliens at all so given the

219

00:08:28,640 --> 00:08:26,700

choice between alright here's an

220

00:08:30,440 --> 00:08:28,650

explanation and it accords with the

221

00:08:31,850 --> 00:08:30,450

facts but it doesn't involve aliens or

222

00:08:33,800 --> 00:08:31,860

here's this other explanation that there

223

00:08:35,870 --> 00:08:33,810

was some you know aliens who decided to

224

00:08:37,940 --> 00:08:35,880

visit the eastern part of England and

225

00:08:41,570 --> 00:08:37,950

then just leave and not actually you

226

00:08:42,740 --> 00:08:41,580

know leave behind a hubcap or something

227

00:08:44,930 --> 00:08:42,750

you know something that I could put in

228

00:08:47,720 --> 00:08:44,940

the on exhibition Road in London at the

229

00:08:49,790 --> 00:08:47,730

Museum I'm gonna go for the simpler

230

00:08:51,740 --> 00:08:49,800

explanation I don't totally agree with

231

00:08:53,480 --> 00:08:51,750

you on that you know been doing where's

232

00:08:55,340 --> 00:08:53,490

the radiation trace evidence there was

233

00:08:57,440 --> 00:08:55,350

marks in the ground that perfectly

234

00:09:00,380 --> 00:08:57,450

measured in a triangular form that there

235

00:09:04,100 --> 00:09:00,390

was the witness testimony of people that

236

00:09:06,320 --> 00:09:04,110

are in charge of nuclear arms you know

237

00:09:08,930 --> 00:09:06,330

it's just there's just so many things in

238

00:09:10,970 --> 00:09:08,940

that case but earlier just mentioned

239

00:09:13,070 --> 00:09:10,980

about the witnesses if there were 25 or

240

00:09:14,930 --> 00:09:13,080

more how about the thousands of

241

00:09:18,740 --> 00:09:14,940

witnesses in the Belgium Triangle

242

00:09:20,270 --> 00:09:18,750

incident in the in 1989 and 1990 yeah I

243

00:09:21,920 --> 00:09:20,280

don't believe any of that either not

244

00:09:23,540 --> 00:09:21,930

that they didn't see things that's not

245

00:09:25,340 --> 00:09:23,550

the point you know thousands of people

246

00:09:27,350 --> 00:09:25,350

saw the Phoenix lights - but that

247

00:09:28,940 --> 00:09:27,360

doesn't prove in that case that they

248

00:09:31,280 --> 00:09:28,950

were actual aliens when there's another

249

00:09:32,510 --> 00:09:31,290

explanation and and it's been repeated

250

00:09:34,130 --> 00:09:32,520

over and over and over again but nobody

251

00:09:35,630 --> 00:09:34,140

seems to want to believe it that that

252

00:09:36,710 --> 00:09:35,640

doesn't do that I mean I would ask you

253

00:09:38,450 --> 00:09:36,720

why is it that there's no evidence

254

00:09:40,430 --> 00:09:38,460

that's in the Smithsonian

255

00:09:42,290 --> 00:09:40,440

I mean that that's the the remarkable

256

00:09:45,260 --> 00:09:42,300

thing to me about this is that one

257

00:09:48,020 --> 00:09:45,270

really good case would prove it yes and

258

00:09:50,030 --> 00:09:48,030

that may that may happen and that it may

259

00:09:52,070 --> 00:09:50,040

happen but I don't think it has happened

260

00:09:53,960 --> 00:09:52,080

and and I think that that's actually a

261

00:09:56,150 --> 00:09:53,970

remarkable thing because there's

262

00:09:57,950 --> 00:09:56,160

something like 10,000 reported UFO

263

00:10:00,320 --> 00:09:57,960

sightings per year I get you know a

264

00:10:01,640 --> 00:10:00,330

couple of day just me but you know I

265

00:10:03,260 --> 00:10:01,650

always tell them done we don't

266

00:10:04,970 --> 00:10:03,270

investigate these things so you know you

267

00:10:07,760 --> 00:10:04,980

should call up one of the organizations

268

00:10:08,720 --> 00:10:07,770

that does like MUFON or something but I

269

00:10:10,310 --> 00:10:08,730

don't think any of these people are

270

00:10:12,620 --> 00:10:10,320

hoaxing me they've just seen something

271

00:10:14,210 --> 00:10:12,630

or they send me photos I have to say if

272

00:10:16,640 --> 00:10:14,220

they send me photos then then I can

273

00:10:19,240 --> 00:10:16,650

actually do some sort of analysis and I

274

00:10:22,100 --> 00:10:19,250

usually do but if you know they've been

275

00:10:24,290 --> 00:10:22,110

ten thousand a year for a long long time

276

00:10:25,520 --> 00:10:24,300

at least and those are the reported ones

277

00:10:26,810 --> 00:10:25,530

I'm sure there are many many more that

278

00:10:30,440 --> 00:10:26,820

you know people just don't do anything

279

00:10:31,970 --> 00:10:30,450

about and so in these tens of thousands

280

00:10:34,670 --> 00:10:31,980

of science all you need is really one

281

00:10:37,190 --> 00:10:34,680

good one and suddenly the case would be

282

00:10:39,140 --> 00:10:37,200

made and the fact that in these tens of

283

00:10:41,750 --> 00:10:39,150

thousands there isn't a single one that

284

00:10:44,120 --> 00:10:41,760

seems to have piqued the interest of the

285

00:10:46,100 --> 00:10:44,130

mainstream academic community the

286

00:10:47,810 --> 00:10:46,110

scientific community or is good enough

287

00:10:49,400 --> 00:10:47,820

as I say to put in the Smithsonian I

288

00:10:52,540 --> 00:10:49,410

think that that's significant to me

289

00:10:54,740 --> 00:10:52,550

that's very significant now you read uh

290

00:10:56,600 --> 00:10:54,750

Leslie Cain's book from what I

291

00:10:58,400 --> 00:10:56,610

understand I've talked with Leslie she's

292

00:11:01,070 --> 00:10:58,410

been here yes yes but did you read her

293

00:11:03,860 --> 00:11:01,080

book some of it not all of it mm-hmm and

294

00:11:05,180 --> 00:11:03,870

what what did you think of it well I

295

00:11:07,670 --> 00:11:05,190

think it's very interesting but these

296

00:11:09,650 --> 00:11:07,680

are all again anecdotes and and that's

297

00:11:12,830 --> 00:11:09,660

just not good enough for science it's

298

00:11:15,020 --> 00:11:12,840

not good enough witness testimony that

299

00:11:17,150 --> 00:11:15,030

doesn't cut it and unfortunately it

300

00:11:19,010 --> 00:11:17,160

doesn't in and when I get very

301
00:11:20,570 --> 00:11:19,020
frequently is people who say but you

302
00:11:22,220 --> 00:11:20,580
know these witnesses are credible

303
00:11:24,460 --> 00:11:22,230
they're airline pilots they're military

304
00:11:27,200 --> 00:11:24,470
people I mean I've been on panels with

305
00:11:29,360 --> 00:11:27,210
military people who you know claimed

306
00:11:31,970 --> 00:11:29,370
that they've seen the aliens buzzing our

307
00:11:34,790 --> 00:11:31,980
missile silos now on the face of it

308
00:11:38,120 --> 00:11:34,800
that's a bit odd isn't it I mean if you

309
00:11:39,710 --> 00:11:38,130
could somehow visit the Romans okay

310
00:11:41,450 --> 00:11:39,720
they're two thousand years ago but

311
00:11:42,680 --> 00:11:41,460
somehow you know you you you come to

312
00:11:44,420 --> 00:11:42,690
earth and you visit the Romans your

313
00:11:46,040 --> 00:11:44,430

aliens and you visit the Romans all

314

00:11:47,300 --> 00:11:46,050

right so the Klingons land in two

315

00:11:48,920 --> 00:11:47,310

thousand years ago let's say they did

316

00:11:50,870 --> 00:11:48,930

which is just as good a time for them to

317

00:11:52,400 --> 00:11:50,880

a visited as now by the way I don't

318

00:11:53,989 --> 00:11:52,410

understand why they're visiting

319

00:11:55,910 --> 00:11:53,999

that's another point but but let's say

320

00:11:57,710 --> 00:11:55,920

they came back and they visited the

321

00:12:00,040 --> 00:11:57,720

Romans 2,000 years ago do you think they

322

00:12:02,569 --> 00:12:00,050

would spend their time you know sort of

323

00:12:04,819 --> 00:12:02,579

walking around the place where the

324

00:12:06,859 --> 00:12:04,829

Romans built their shields and spears

325

00:12:08,569 --> 00:12:06,869

because after all you know that's their

326

00:12:11,509 --> 00:12:08,579

military technology we were to check

327

00:12:13,669 --> 00:12:11,519

that out I think it's just as kind of

328

00:12:14,960 --> 00:12:13,679

silly as thinking that you know if the

329

00:12:16,850 --> 00:12:14,970

Klingons came today they would be

330

00:12:18,499 --> 00:12:16,860

interested in our Mills missile silos

331

00:12:19,970 --> 00:12:18,509

and yet you know they're plenty of

332

00:12:22,400 --> 00:12:19,980

people written books about that I I

333

00:12:23,960 --> 00:12:22,410

disagree because let's just throw it out

334

00:12:26,289 --> 00:12:23,970

there let's say that we are an

335

00:12:29,449 --> 00:12:26,299

experiment or we are just being watched

336

00:12:31,970 --> 00:12:29,459

you can't destroy an entire world with

337

00:12:34,039 --> 00:12:31,980

shields and swords but you certainly can

338

00:12:35,660 --> 00:12:34,049

with nuclear weapons well if we're being

339

00:12:37,789 --> 00:12:35,670

watched how are we being watched like

340

00:12:39,799 --> 00:12:37,799

you said there are 10,000 people a year

341

00:12:41,210 --> 00:12:39,809

that have sightings what you mean

342

00:12:42,650 --> 00:12:41,220

they're here and so they're watching us

343

00:12:43,939 --> 00:12:42,660

from nearby Bay because they've been

344

00:12:45,439 --> 00:12:43,949

hanging around the planet for four and a

345

00:12:46,729 --> 00:12:45,449

half billion years watching us that's

346

00:12:52,160 --> 00:12:46,739

anything is possible

347

00:12:53,809 --> 00:12:52,170

unfortunately you know to say that that

348

00:12:55,249 --> 00:12:53,819

that's not very good evidence for saying

349

00:12:57,079 --> 00:12:55,259

we're being visited to say anything's

350

00:12:58,879 --> 00:12:57,089

possible yes anything's possible I mean

351

00:13:00,350 --> 00:12:58,889

it could be that you know the there

352

00:13:01,009 --> 00:13:00,360

leprechauns in Ireland I mean that's

353

00:13:02,720 --> 00:13:01,019

possible

354

00:13:06,139 --> 00:13:02,730

well that's that's what you base your

355

00:13:08,359 --> 00:13:06,149

job on is anything's possible no we do

356

00:13:11,090 --> 00:13:08,369

is we say look yeah they could be out

357

00:13:12,410 --> 00:13:11,100

there that is that is a the the starting

358

00:13:14,239 --> 00:13:12,420

point and I agree with you that that is

359

00:13:16,489 --> 00:13:14,249

our starting point we do that on the

360

00:13:18,109 --> 00:13:16,499

basis of the fact that for example we

361

00:13:19,999 --> 00:13:18,119

now know they're a trillion planets in

362

00:13:21,499 --> 00:13:20,009

the Milky Way okay so you know it

363

00:13:24,019 --> 00:13:21,509

doesn't seem unreasonable that some of

364

00:13:27,039 --> 00:13:24,029

those have have spawned some sort of not

365

00:13:29,539 --> 00:13:27,049

only biology but something intelligent

366

00:13:31,910 --> 00:13:29,549

but for them to come here okay that's

367

00:13:33,169 --> 00:13:31,920

very hard it's very hard to understand

368

00:13:34,160 --> 00:13:33,179

any motivation for them to come here

369

00:13:36,049 --> 00:13:34,170

because they don't know about us yet

370

00:13:38,150 --> 00:13:36,059

know that that information hasn't

371

00:13:39,559 --> 00:13:38,160

reached them yet so you know it's not

372

00:13:41,869 --> 00:13:39,569

that they're interested in our nuclear

373

00:13:43,429 --> 00:13:41,879

weapons or the fact that we're may be

374

00:13:44,749 --> 00:13:43,439

messing up the environment or whatever

375

00:13:46,909 --> 00:13:44,759

they don't know any of that how would

376

00:13:48,499 --> 00:13:46,919

you know that the only way you'd know it

377

00:13:52,999 --> 00:13:48,509

is by picking up our signals you know

378

00:13:55,309 --> 00:13:53,009

television I'd I disagree I mean they

379

00:13:57,199 --> 00:13:55,319

could they could have known to explore

380

00:14:00,439 --> 00:13:57,209

our atmosphere two million years ago

381

00:14:01,669 --> 00:14:00,449

with an advanced civilization yeah but

382

00:14:02,900 --> 00:14:01,679

if they explored the atmosphere what

383

00:14:05,150 --> 00:14:02,910

would they learn what do you mean by

384

00:14:06,610 --> 00:14:05,160

exploring yeah they could see signs of

385

00:14:11,629 --> 00:14:06,620

or fill or whatever in our atmosphere

386

00:14:14,749 --> 00:14:11,639

right so the others grass here out

387

00:14:16,790 --> 00:14:14,759

there's life yeah there's life but so

388

00:14:18,710 --> 00:14:16,800

you're suggesting that two billion years

389

00:14:20,540 --> 00:14:18,720
ago they detected oxygen in our

390

00:14:21,800 --> 00:14:20,550
atmosphere which indeed they could do I

391

00:14:23,600 --> 00:14:21,810
mean I think anybody with a big enough

392

00:14:25,369 --> 00:14:23,610
telescope would know that there's oxygen

393

00:14:26,869 --> 00:14:25,379
in our atmosphere so they said okay

394

00:14:29,059 --> 00:14:26,879
there's a world over there

395

00:14:30,699 --> 00:14:29,069
it's got oxygen in the atmosphere Zork

396

00:14:32,420 --> 00:14:30,709
we're gonna mount an interstellar

397

00:14:33,889 --> 00:14:32,430
expedition here and we're just gonna

398

00:14:36,170 --> 00:14:33,899
hang out around that planet for two

399

00:14:38,269 --> 00:14:36,180
billion years and then finally beginning

400

00:14:40,579 --> 00:14:38,279
in 1948 we'll start making our presence

401
00:14:43,429 --> 00:14:40,589
known is that the idea not not

402
00:14:45,350 --> 00:14:43,439
necessarily I mean there's there are you

403
00:14:48,019 --> 00:14:45,360
know there are drawings on caves with

404
00:14:50,269 --> 00:14:48,029
disk shaped objects who knows they might

405
00:14:53,210 --> 00:14:50,279
have been here before who is to say they

406
00:14:55,699 --> 00:14:53,220
haven't been well uh nobody that's the

407
00:14:58,639 --> 00:14:55,709
same argument anything's possible yeah

408
00:15:00,410 --> 00:14:58,649
if you talk to you know paleontologists

409
00:15:01,670 --> 00:15:00,420
or archeologists about these things in

410
00:15:04,670 --> 00:15:01,680
caves they'll say yeah they're just

411
00:15:07,220 --> 00:15:04,680
shaped objects you know my my

412
00:15:09,319 --> 00:15:07,230
three-year-old has lots of this shaped

413
00:15:11,210 --> 00:15:09,329

objects but that doesn't mean that my

414

00:15:13,340 --> 00:15:11,220

three-year-old is seeing aliens I mean

415

00:15:16,579 --> 00:15:13,350

that's not evidence here's my more or

416

00:15:19,100 --> 00:15:16,589

less beef against what you do for a job

417

00:15:20,960 --> 00:15:19,110

and I do appreciate I actually do

418

00:15:23,360 --> 00:15:20,970

appreciate the search and the

419

00:15:25,220 --> 00:15:23,370

possibilities and I hope the first

420

00:15:26,740 --> 00:15:25,230

message you hear is we've been visiting

421

00:15:29,210 --> 00:15:26,750

you all along

422

00:15:33,050 --> 00:15:29,220

well that might be but I doubt we'll

423

00:15:35,509 --> 00:15:33,060

understand it well anyway my question is

424

00:15:38,090 --> 00:15:35,519

- how are you so sure that they're using

425

00:15:40,189 --> 00:15:38,100

radio signals I mean if they're so far

426

00:15:42,889 --> 00:15:40,199

advanced it seems like radio would be

427

00:15:44,059 --> 00:15:42,899

very very primitive well what do you

428

00:15:45,530 --> 00:15:44,069

think would be less primitive

429

00:15:46,999 --> 00:15:45,540

what do you mean less primitive other

430

00:15:48,439 --> 00:15:47,009

ways of communicating that we haven't

431

00:15:50,120 --> 00:15:48,449

even thought of okay

432

00:15:52,819 --> 00:15:50,130

in other words anything's possible again

433

00:15:54,980 --> 00:15:52,829

absolutely yeah but that doesn't allow

434

00:15:58,519 --> 00:15:54,990

you to do an experiment well here's the

435

00:16:01,100 --> 00:15:58,529

you and I or mostly you are talking on

436

00:16:05,030 --> 00:16:01,110

what we know today you're not talking

437

00:16:07,400 --> 00:16:05,040

about what you or our civilization may

438

00:16:08,960 --> 00:16:07,410

understand in a million years advanced a

439

00:16:11,119 --> 00:16:08,970

billion years advanced even a hundred

440

00:16:13,910 --> 00:16:11,129

years advanced so that's true that's

441

00:16:15,710 --> 00:16:13,920

absolutely true Martin it may be that

442

00:16:17,990 --> 00:16:15,720

radio and by the way we use radios

443

00:16:19,010 --> 00:16:18,000

because this is just the physics of the

444

00:16:20,210 --> 00:16:19,020

situation

445

00:16:21,860 --> 00:16:20,220

radio waves go right through the

446

00:16:23,600 --> 00:16:21,870

interstellar gas and dust without any

447

00:16:25,550 --> 00:16:23,610

hindrance they do that at the speed of

448

00:16:29,150 --> 00:16:25,560

light which as far as we know is as fast

449

00:16:30,860 --> 00:16:29,160

as you can send information okay so if

450

00:16:33,290 --> 00:16:30,870

you just work out the cost per bit of

451
00:16:35,390 --> 00:16:33,300
sending information on a radio wave and

452
00:16:37,190 --> 00:16:35,400
the cost per bit is an energy cost of

453
00:16:38,630 --> 00:16:37,200
course if you just work that out it's

454
00:16:40,910 --> 00:16:38,640
cheaper in the radio than anything else

455
00:16:42,560 --> 00:16:40,920
that we know about now your point is

456
00:16:44,270 --> 00:16:42,570
well but there are things we don't know

457
00:16:46,250 --> 00:16:44,280
well I'm sure there are things we don't

458
00:16:48,920 --> 00:16:46,260
know that's absolutely so and it

459
00:16:50,420 --> 00:16:48,930
certainly is possible that ten years

460
00:16:51,830 --> 00:16:50,430
down the road a thousand years down the

461
00:16:53,840 --> 00:16:51,840
road a million years down the road we

462
00:16:55,400 --> 00:16:53,850
uncovered some physics that shows us

463
00:16:59,120 --> 00:16:55,410

much much better ways to communicate

464

00:17:00,740 --> 00:16:59,130

that could be that could be but all that

465

00:17:03,320 --> 00:17:00,750

does I mean that doesn't help you to

466

00:17:04,790 --> 00:17:03,330

have said that because it just means

467

00:17:05,930 --> 00:17:04,800

well you better not do your experiment

468

00:17:08,720 --> 00:17:05,940

here because there may be a better way

469

00:17:11,449 --> 00:17:08,730

to do it that's unless you know the

470

00:17:13,490 --> 00:17:11,459

physics of these better methods you

471

00:17:15,440 --> 00:17:13,500

can't design an experiment so your

472

00:17:16,490 --> 00:17:15,450

alternative is either to just throw up

473

00:17:18,890 --> 00:17:16,500

your hands and say I'm not gonna do

474

00:17:20,600 --> 00:17:18,900

anything because it might be wrong or

475

00:17:23,000 --> 00:17:20,610

you do the experiment based on the

476

00:17:26,449 --> 00:17:23,010

physics you have and so that's you know

477

00:17:28,940 --> 00:17:26,459

that's why we do what we do okay so we

478

00:17:30,470 --> 00:17:28,950

really don't know for sure if everyone's

479

00:17:32,540 --> 00:17:30,480

wasting their time and study that's

480

00:17:35,330 --> 00:17:32,550

really the bottom line I mean that's

481

00:17:37,430 --> 00:17:35,340

nice raishin its exploration it's a bit

482

00:17:39,290 --> 00:17:37,440

like asking Captain Cook you know you

483

00:17:40,760 --> 00:17:39,300

could be wasting your time exploring the

484

00:17:42,980 --> 00:17:40,770

South Pacific because there might not be

485

00:17:45,830 --> 00:17:42,990

any significant islands here I think

486

00:17:49,550 --> 00:17:45,840

I've heard you say before about the vast

487

00:17:52,420 --> 00:17:49,560

amount of energy need needed for a light

488

00:17:55,880 --> 00:17:52,430

light speed travel I wondered if you

489

00:17:59,000 --> 00:17:55,890

were familiar with the new article that

490

00:18:01,070 --> 00:17:59,010

just came out I believe SETI and charter

491

00:18:04,670 --> 00:18:01,080

I believe was there at the conference

492

00:18:06,140 --> 00:18:04,680

with dr. Harold white recently and I

493

00:18:08,030 --> 00:18:06,150

just wanted you to comment on that if

494

00:18:09,530 --> 00:18:08,040

you would well I think you may be

495

00:18:12,680 --> 00:18:09,540

referring to the hundred year starship

496

00:18:13,580 --> 00:18:12,690

program that that initiative is that

497

00:18:15,890 --> 00:18:13,590

what you're speaking of them yeah

498

00:18:17,900 --> 00:18:15,900

searching for they warp bubbles well you

499

00:18:21,800 --> 00:18:17,910

know they're very sick their various

500

00:18:23,000 --> 00:18:21,810

proposals for how to either get close to

501
00:18:23,720 --> 00:18:23,010
the speed of light or even beat the

502
00:18:25,550 --> 00:18:23,730
speed of light

503
00:18:27,650 --> 00:18:25,560
okay it's not clear whether any of that

504
00:18:29,000 --> 00:18:27,660
physics works if you talk to the you

505
00:18:29,830 --> 00:18:29,010
know the physicists about this they say

506
00:18:31,330 --> 00:18:29,840
well you know

507
00:18:33,070 --> 00:18:31,340
I don't know it doesn't seem to work but

508
00:18:35,019 --> 00:18:33,080
maybe maybe it could be made to work but

509
00:18:37,630 --> 00:18:35,029
in any case any of these schemes require

510
00:18:39,010 --> 00:18:37,640
an enormous amounts of energy so that

511
00:18:41,470 --> 00:18:39,020
that's that's the problem with

512
00:18:42,909 --> 00:18:41,480
high-speed travel whether you talking

513
00:18:43,960 --> 00:18:42,919

about going half this feat alright or

514

00:18:45,700 --> 00:18:43,970

you're talking about it and even going

515

00:18:48,220 --> 00:18:45,710

faster this be like if it turns out that

516

00:18:50,919 --> 00:18:48,230

that's possible to do so

517

00:18:53,950 --> 00:18:50,929

you know marshalling these huge sums of

518

00:18:55,899 --> 00:18:53,960

energy is not easy to do no matter who

519

00:18:57,700 --> 00:18:55,909

you are that's for sure but that's a

520

00:19:00,519 --> 00:18:57,710

technical argument and and that's

521

00:19:02,980 --> 00:19:00,529

actually not the objection to I think

522

00:19:04,690 --> 00:19:02,990

that the that the scientific community

523

00:19:06,760 --> 00:19:04,700

has to the idea that we're being visited

524

00:19:08,590 --> 00:19:06,770

it isn't that doggone it there's just no

525

00:19:11,320 --> 00:19:08,600

technical way that they could be here I

526

00:19:13,330 --> 00:19:11,330

mean we we started that way at the top

527

00:19:16,840 --> 00:19:13,340

of the show it doesn't violate physics

528

00:19:18,970 --> 00:19:16,850

even you know precluding any of these

529

00:19:20,740 --> 00:19:18,980

sort of exotic ideas for high-speed

530

00:19:22,360 --> 00:19:20,750

travel I mean they can they can go at

531

00:19:24,610 --> 00:19:22,370

slow speed if they live to be you know

532

00:19:25,810 --> 00:19:24,620

five hundred thousand years before they

533

00:19:27,700 --> 00:19:25,820

die if they're machine intelligence

534

00:19:29,500 --> 00:19:27,710

they're not biological beings at all

535

00:19:31,419 --> 00:19:29,510

then they can undertake those trips even

536

00:19:32,740 --> 00:19:31,429

with chemical rockets I wouldn't

537

00:19:34,960 --> 00:19:32,750

recommend it but you know they could do

538

00:19:36,940 --> 00:19:34,970

it alright that's not the problem the

539

00:19:39,070 --> 00:19:36,950

problem is the the evidence is so poor

540

00:19:41,769 --> 00:19:39,080

that's the problem just another

541

00:19:44,230 --> 00:19:41,779

hypothetical people that are skeptic of

542

00:19:45,880 --> 00:19:44,240

UFOs basically always say why hasn't one

543

00:19:48,430 --> 00:19:45,890

landed on the White House lawn I've

544

00:19:51,070 --> 00:19:48,440

heard it you know a hundred times so

545

00:19:53,260 --> 00:19:51,080

what happens if they did land on the

546

00:19:55,240 --> 00:19:53,270

White House lawn and et went up and

547

00:19:56,519 --> 00:19:55,250

shook Obama's hand what would happen to

548

00:19:58,510 --> 00:19:56,529

SETI

549

00:20:00,310 --> 00:19:58,520

they'd be evened I'd be surprised that

550

00:20:01,690 --> 00:20:00,320

they have the same gestures that we do

551
00:20:03,940 --> 00:20:01,700
they do in the movies I have to say but

552
00:20:06,090 --> 00:20:03,950
probably in reality shaking in might be

553
00:20:08,799 --> 00:20:06,100
the universal symbol of war who knows

554
00:20:11,470 --> 00:20:08,809
what happened well look if they arrived

555
00:20:13,360 --> 00:20:11,480
here right in such an unambiguous way

556
00:20:16,389 --> 00:20:13,370
they don't mean no it's just on the

557
00:20:18,190 --> 00:20:16,399
nightly news I think that you know said

558
00:20:19,180 --> 00:20:18,200
he would certainly pivot we would

559
00:20:20,919 --> 00:20:19,190
certainly do something entirely

560
00:20:22,299 --> 00:20:20,929
different because the first thing you'd

561
00:20:24,279 --> 00:20:22,309
want to do is so where did you guys come

562
00:20:25,810 --> 00:20:24,289
from and you know and you probably turn

563
00:20:27,760 --> 00:20:25,820

their antennas in that direction but

564

00:20:29,560 --> 00:20:27,770

indeed I mean we will have discovered

565

00:20:31,659 --> 00:20:29,570

intelligent life in the universe in fact

566

00:20:33,070 --> 00:20:31,669

not the way we thought if they landed on

567

00:20:35,260 --> 00:20:33,080

the White House lawn I mean that's for

568

00:20:37,029 --> 00:20:35,270

sure hmm I just had to say that because

569

00:20:39,909 --> 00:20:37,039

I always hear that one over and over

570

00:20:43,160 --> 00:20:39,919

again I must say I don't but but I think

571

00:20:46,580 --> 00:20:43,170

what what is being meant by that is that

572

00:20:49,280 --> 00:20:46,590

why is the evidence not very obvious and

573

00:20:51,470 --> 00:20:49,290

I think that that's a reaction to the

574

00:20:53,510 --> 00:20:51,480

photos that are you know routinely shown

575

00:20:55,550 --> 00:20:53,520

of UFOs and you know they were always

576

00:20:58,060 --> 00:20:55,560

very ambiguous then once I see you're

577

00:21:01,310 --> 00:20:58,070

either ambiguous or they're clearly

578

00:21:04,460 --> 00:21:01,320

photographic effects and said you and so

579

00:21:06,860 --> 00:21:04,470

if I mean imagine somebody said you know

580

00:21:09,380 --> 00:21:06,870

I wonder if there are these big airships

581

00:21:11,720 --> 00:21:09,390

sort of sailing around the earth you

582

00:21:13,310 --> 00:21:11,730

know with big inflatable things with you

583

00:21:15,290 --> 00:21:13,320

know with motors on the outside that

584

00:21:17,270 --> 00:21:15,300

give them some thrust and allow them to

585

00:21:18,830 --> 00:21:17,280

change direction and so forth I wonder

586

00:21:20,780 --> 00:21:18,840

if that's true well you know within

587

00:21:22,520 --> 00:21:20,790

within 50 years you'd have a big photo

588

00:21:24,350 --> 00:21:22,530

collection showing you know blimps and

589

00:21:26,150 --> 00:21:24,360

George bulls all around the world and

590

00:21:27,620 --> 00:21:26,160

you could see advertising on the side

591

00:21:29,240 --> 00:21:27,630

you could see details on the motors and

592

00:21:31,940 --> 00:21:29,250

so on that photographic evidence would

593

00:21:33,860 --> 00:21:31,950

be pretty compelling but the

594

00:21:35,330 --> 00:21:33,870

photographic evidence of alien

595

00:21:36,710 --> 00:21:35,340

visitation is not compelling because

596

00:21:38,570 --> 00:21:36,720

they're usually very very you know

597

00:21:41,390 --> 00:21:38,580

they're completely detailed as photos

598

00:21:44,810 --> 00:21:41,400

almost all of them I kind of disagree I

599

00:21:47,120 --> 00:21:44,820

mean I I had a sighting myself and you

600

00:21:49,190 --> 00:21:47,130

know that kind of changed that's why I'm

601
00:21:52,730 --> 00:21:49,200
doing this podcast you know I mean it to

602
00:21:56,420 --> 00:21:52,740
me it was just something that was

603
00:22:00,050 --> 00:21:56,430
totally unexplainable in any way and I'm

604
00:22:01,610 --> 00:22:00,060
just wondering if perhaps tonight you

605
00:22:03,110 --> 00:22:01,620
go home and you drive home and you

606
00:22:05,930 --> 00:22:03,120
actually see something that is just

607
00:22:08,990 --> 00:22:05,940
undeniable would you consider it just a

608
00:22:11,620 --> 00:22:09,000
UFO and if so would you be able to

609
00:22:14,780 --> 00:22:11,630
accept that it's a possibility that it's

610
00:22:16,130 --> 00:22:14,790
extraterrestrial sure of course of

611
00:22:17,420 --> 00:22:16,140
course when you see something and you

612
00:22:18,140 --> 00:22:17,430
don't know what it is which is what

613
00:22:19,970 --> 00:22:18,150

you're talking about

614

00:22:21,320 --> 00:22:19,980

right and I've had that experience I've

615

00:22:23,210 --> 00:22:21,330

seen plenty of things that at first at

616

00:22:26,030 --> 00:22:23,220

least I didn't know what they were okay

617

00:22:27,350 --> 00:22:26,040

and hey you know you can say okay you

618

00:22:29,180 --> 00:22:27,360

know that's that's odd I don't know what

619

00:22:30,620 --> 00:22:29,190

it is now there are various

620

00:22:32,150 --> 00:22:30,630

possibilities for what it might be that

621

00:22:34,460 --> 00:22:32,160

I can think of and there probably many

622

00:22:35,840 --> 00:22:34,470

more that I am NOT thinking of in

623

00:22:37,850 --> 00:22:35,850

particular I saw on one night that

624

00:22:40,940 --> 00:22:37,860

turned out to be a launch from Wallops

625

00:22:42,260 --> 00:22:40,950

Island in Virginia where I was living it

626

00:22:43,910 --> 00:22:42,270

was a rocket launch but I didn't know

627

00:22:45,920 --> 00:22:43,920

about those rocket launches so you know

628

00:22:47,870 --> 00:22:45,930

it was very very perplexing to me okay

629

00:22:49,400 --> 00:22:47,880

but you know so I'm making my mind

630

00:22:50,930 --> 00:22:49,410

everybody does I'm sure it's sort of a

631

00:22:52,370 --> 00:22:50,940

quick list of things that it could be

632

00:22:54,590 --> 00:22:52,380

good video an aircraft could it be this

633

00:22:56,510 --> 00:22:54,600

could it be that whatever and and one

634

00:22:57,080 --> 00:22:56,520

possibility and Alyssa said it's alien

635

00:23:00,140 --> 00:22:57,090

visitation

636

00:23:01,820 --> 00:23:00,150

all right that's possibility but to jump

637

00:23:03,560 --> 00:23:01,830

to the conclusion that that's what it is

638

00:23:05,180 --> 00:23:03,570

that's what people do all the time now

639

00:23:06,530 --> 00:23:05,190

because it's you know a part of the

640

00:23:08,210 --> 00:23:06,540

popular culture so when you see

641

00:23:10,370 --> 00:23:08,220

something that you don't understand it

642

00:23:12,560 --> 00:23:10,380

immediately becomes alien visitors but

643

00:23:15,710 --> 00:23:12,570

there are all these other possibilities

644

00:23:17,510 --> 00:23:15,720

right and indeed you know as you know

645

00:23:18,950 --> 00:23:17,520

there been several Commission's to look

646

00:23:21,890 --> 00:23:18,960

into the UFO phenomena and that was

647

00:23:24,170 --> 00:23:21,900

quite some time ago after the after the

648

00:23:26,090 --> 00:23:24,180

Second World War and into the 1950s and

649

00:23:27,710 --> 00:23:26,100

even the 1960s and what they would do is

650

00:23:29,690 --> 00:23:27,720

they bring together sort of expert

651

00:23:31,280 --> 00:23:29,700

panels people that were well versed in

652

00:23:33,860 --> 00:23:31,290

upper atmosphere physics and so forth

653

00:23:35,000 --> 00:23:33,870

aviation whatever and and these panels

654

00:23:36,500 --> 00:23:35,010

would say all right well give us the

655

00:23:38,750 --> 00:23:36,510

hundred best cases you know the ones

656

00:23:40,790 --> 00:23:38,760

where you have at least some credible

657

00:23:42,650 --> 00:23:40,800

looking evidence and we'll see if we can

658

00:23:45,350 --> 00:23:42,660

figure them out and so they would do

659

00:23:47,390 --> 00:23:45,360

this and typically they would be able to

660

00:23:50,120 --> 00:23:47,400

explain 90 percent of them as aircraft

661

00:23:51,980 --> 00:23:50,130

or balloons or whatever the astronomical

662

00:23:54,980 --> 00:23:51,990

objects they could they could figure out

663

00:23:58,100 --> 00:23:54,990

about 90 percent of them typically 10

664

00:23:59,630 --> 00:23:58,110

percent of them they could and what so

665

00:24:02,090 --> 00:23:59,640

many people do I've heard them say this

666

00:24:04,070 --> 00:24:02,100

is that we'll see those 10 percent they

667

00:24:05,960 --> 00:24:04,080

can't explain that's where the alien

668

00:24:07,300 --> 00:24:05,970

crafts are and that's you know that's

669

00:24:09,260 --> 00:24:07,310

what's called an argument from ignorance

670

00:24:11,840 --> 00:24:09,270

because they're saying I don't know what

671

00:24:14,600 --> 00:24:11,850

it is so it's proof of aliens you know

672

00:24:16,520 --> 00:24:14,610

the local police here solved 65 percent

673

00:24:18,230 --> 00:24:16,530

of the homicides in San Francisco the

674

00:24:20,450 --> 00:24:18,240

other 35 percent they don't solve those

675

00:24:22,340 --> 00:24:20,460

could be you know aliens murdering

676
00:24:25,550 --> 00:24:22,350
people but that would be a very bizarre

677
00:24:28,180 --> 00:24:25,560
conclusion I think that for someone just

678
00:24:31,730 --> 00:24:28,190
to assume that what they see is

679
00:24:34,460 --> 00:24:31,740
extraterrestrial I agree with you on

680
00:24:37,700 --> 00:24:34,470
that part I think what I think is well

681
00:24:40,460 --> 00:24:37,710
something is happening and we don't know

682
00:24:42,950 --> 00:24:40,470
what it is and so the thing that comes

683
00:24:43,910 --> 00:24:42,960
to mind when you talk about 10,000

684
00:24:46,790 --> 00:24:43,920
sightings a year

685
00:24:48,650 --> 00:24:46,800
why isn't there even a very small part

686
00:24:50,450 --> 00:24:48,660
of the government interested in this

687
00:24:53,660 --> 00:24:50,460
like like they are in other countries

688
00:24:56,570 --> 00:24:53,670

for instance in South America there's

689

00:24:58,430 --> 00:24:56,580

government associations actually taking

690

00:25:01,550 --> 00:24:58,440

this serious and why doesn't the u.s.

691

00:25:04,310 --> 00:25:01,560

take it serious well I think that's

692

00:25:06,020 --> 00:25:04,320

simply history you know I think that if

693

00:25:07,680 --> 00:25:06,030

the evidence rose to the level of seeing

694

00:25:10,980 --> 00:25:07,690

seemingly the

695

00:25:12,930 --> 00:25:10,990

credible to you no experts in the field

696

00:25:15,080 --> 00:25:12,940

of you know atmospheric phenomena I

697

00:25:17,549 --> 00:25:15,090

think that it would be taken seriously

698

00:25:19,860 --> 00:25:17,559

it's not taken seriously in this country

699

00:25:21,539 --> 00:25:19,870

in sense as you say that we don't have

700

00:25:22,649 --> 00:25:21,549

any you know the government isn't

701
00:25:23,430 --> 00:25:22,659
looking into it of course people

702
00:25:26,279 --> 00:25:23,440
wouldn't believe what the government

703
00:25:27,899 --> 00:25:26,289
said anyhow that's my take on it seems

704
00:25:28,769 --> 00:25:27,909
that when it comes to UFOs people don't

705
00:25:30,360 --> 00:25:28,779
trust the government so they

706
00:25:32,100 --> 00:25:30,370
simultaneously don't trust them and then

707
00:25:35,100 --> 00:25:32,110
blame them for not investigating which

708
00:25:36,509 --> 00:25:35,110
seems odd but ok I mean the British

709
00:25:37,499 --> 00:25:36,519
aren't looking into it I lived in Europe

710
00:25:39,619 --> 00:25:37,509
for thirteen years none of the

711
00:25:41,610 --> 00:25:39,629
governments in Western Europe I you know

712
00:25:46,320 --> 00:25:41,620
encountered seem to be very interested

713
00:25:47,490 --> 00:25:46,330

in it and and so I you know yes some

714

00:25:49,680 --> 00:25:47,500

governments are looking into it well

715

00:25:51,090 --> 00:25:49,690

fine I have no objection to looking into

716

00:25:52,529 --> 00:25:51,100

it I think people should look into it if

717

00:25:55,860 --> 00:25:52,539

they feel that there's there's something

718

00:25:57,029 --> 00:25:55,870

there they should they should but I you

719

00:25:59,159 --> 00:25:57,039

know I just haven't seen the evidence

720

00:26:00,960 --> 00:25:59,169

from for me that that's convinced me and

721

00:26:02,820 --> 00:26:00,970

I I have to say I mean there was an

722

00:26:04,860 --> 00:26:02,830

article in The Huffington Post just

723

00:26:07,590 --> 00:26:04,870

recently in which the astronomer royal

724

00:26:09,419 --> 00:26:07,600

Martin Rees said you know there's just

725

00:26:12,360 --> 00:26:09,429

nothing in this well that's just another

726

00:26:15,779 --> 00:26:12,370

opinion and I just would think with all

727

00:26:17,549 --> 00:26:15,789

of what and if there is radar evidence

728

00:26:19,889 --> 00:26:17,559

you can't deny the radar evidence

729

00:26:22,080 --> 00:26:19,899

because there was three on one object

730

00:26:24,960 --> 00:26:22,090

and when something can do multiple

731

00:26:27,240 --> 00:26:24,970

thousand miles an hour and make a right

732

00:26:29,190 --> 00:26:27,250

angle turn it just seems like there

733

00:26:31,049 --> 00:26:29,200

would be much more curiosity by

734

00:26:33,960 --> 00:26:31,059

scientists well the thing is you can

735

00:26:35,730 --> 00:26:33,970

explain the radar the radar sightings in

736

00:26:38,340 --> 00:26:35,740

other ways it turns out that radar radar

737

00:26:40,980 --> 00:26:38,350

you know yeah you know this is

738

00:26:42,210 --> 00:26:40,990

accompanied with visual yeah but the

739

00:26:43,680 --> 00:26:42,220

thing is to begin with we have aircraft

740

00:26:45,119 --> 00:26:43,690

and go thousands of miles an hour so

741

00:26:47,039 --> 00:26:45,129

that per se is not so interesting that

742

00:26:49,289 --> 00:26:47,049

the right angle turns are usually

743

00:26:50,759 --> 00:26:49,299

geometric effects their geometric

744

00:26:52,320 --> 00:26:50,769

effects I've talked to radar experts

745

00:26:53,669 --> 00:26:52,330

about this and they say you know this

746

00:26:56,129 --> 00:26:53,679

isn't good evidence either but you know

747

00:26:57,960 --> 00:26:56,139

if you if you disagree that's fine and

748

00:26:59,190 --> 00:26:57,970

and a lot of people disagree I mean a

749

00:27:01,379 --> 00:26:59,200

lot of people are gonna disagree with

750

00:27:04,769 --> 00:27:01,389

what I'm saying here I'm sure of it but

751

00:27:05,460 --> 00:27:04,779

look as I say bottom line is really

752

00:27:08,460 --> 00:27:05,470

simple

753

00:27:10,080 --> 00:27:08,470

there are thousands and thousands of you

754

00:27:12,960 --> 00:27:10,090

know sightings every year that means if

755

00:27:14,279 --> 00:27:12,970

they're ten thousand a year right that

756

00:27:17,190 --> 00:27:14,289

means they're thirty a day every hour

757

00:27:18,960 --> 00:27:17,200

there's another reported sighting okay

758

00:27:20,780 --> 00:27:18,970

and all you need is one really good one

759

00:27:22,820 --> 00:27:20,790

one good one

760

00:27:25,610 --> 00:27:22,830

that that where the evidence is so

761

00:27:27,620 --> 00:27:25,620

unambiguous as to say that doggone it

762

00:27:28,940 --> 00:27:27,630

let's shove this into the Museum of

763

00:27:31,670 --> 00:27:28,950

Natural History in New York let's just

764

00:27:32,900 --> 00:27:31,680

put it in there and and and yet the

765

00:27:34,550 --> 00:27:32,910

Museum of Natural History doesn't do

766

00:27:35,950 --> 00:27:34,560

that and it isn't because the people who

767

00:27:38,030 --> 00:27:35,960

are running a museum figured that the

768

00:27:39,890 --> 00:27:38,040

visitors that the museum just wouldn't

769

00:27:42,170 --> 00:27:39,900

be interested in this of course they

770

00:27:43,310 --> 00:27:42,180

would be interested my gosh this would

771

00:27:45,050 --> 00:27:43,320

be the most interesting thing in the

772

00:27:46,790 --> 00:27:45,060

museum it's just that they don't think

773

00:27:48,770 --> 00:27:46,800

it's very credible it's just that sorry

774

00:27:50,270 --> 00:27:48,780

but you know that that's probably

775

00:27:52,790 --> 00:27:50,280

something else you guys you know just

776

00:27:54,620 --> 00:27:52,800

misinterpreted this so that's that's

777

00:27:56,420 --> 00:27:54,630

really my plea to the the UFO community

778

00:27:57,860 --> 00:27:56,430

is that look you know instead of

779

00:27:58,580 --> 00:27:57,870

complaining that the problem lies

780

00:28:00,800 --> 00:27:58,590

elsewhere

781

00:28:02,210 --> 00:28:00,810

that it's the problem is with the

782

00:28:03,740 --> 00:28:02,220

skeptics and that's what they normally

783

00:28:06,380 --> 00:28:03,750

do they say the problem is with you

784

00:28:07,580 --> 00:28:06,390

scientists you won't look into it or the

785

00:28:08,690 --> 00:28:07,590

problem is with the government because

786

00:28:11,900 --> 00:28:08,700

they've covered up all the good evidence

787

00:28:13,700 --> 00:28:11,910

which is absolutely bizarre I mean how

788

00:28:15,350 --> 00:28:13,710

is it that the aliens have arranged

789

00:28:16,850 --> 00:28:15,360

everything so that only the government

790

00:28:18,410 --> 00:28:16,860

gets the good evidence how did they do

791

00:28:19,790 --> 00:28:18,420

that they must be in cahoots with our

792

00:28:21,740 --> 00:28:19,800

government in which case maybe they'll

793

00:28:23,930 --> 00:28:21,750

solve the deficit problem or something I

794

00:28:25,880 --> 00:28:23,940

mean so instead of saying things like

795

00:28:27,170 --> 00:28:25,890

that you know you it's the problems with

796

00:28:29,360 --> 00:28:27,180

you scientists are the problem is with

797

00:28:31,340 --> 00:28:29,370

the government the problem is with the

798

00:28:33,200 --> 00:28:31,350

evidence that they should just say look

799

00:28:36,380 --> 00:28:33,210

let's concentrate on getting the very

800

00:28:38,420 --> 00:28:36,390

best evidence so if this is happening so

801
00:28:41,120 --> 00:28:38,430
often I mean we surely can design some

802
00:28:42,500 --> 00:28:41,130
sort of instrumentation that will up the

803
00:28:44,630 --> 00:28:42,510
quality of the evidence and then we can

804
00:28:46,790 --> 00:28:44,640
convince people would you back that oh

805
00:28:49,190 --> 00:28:46,800
yeah sure absolutely

806
00:28:51,320 --> 00:28:49,200
well that's one good thing I've heard

807
00:28:55,670 --> 00:28:51,330
out of use so far I'm joking of course

808
00:28:58,130 --> 00:28:55,680
but one of the things I think of is you

809
00:29:01,030 --> 00:28:58,140
know all the pilots that have chased

810
00:29:03,980 --> 00:29:01,040
them different air forces have chase

811
00:29:07,070 --> 00:29:03,990
unidentified flying objects and have

812
00:29:10,970 --> 00:29:07,080
been outrun and all the testimony out

813
00:29:12,950 --> 00:29:10,980

there and my own personal sighting I do

814

00:29:15,850 --> 00:29:12,960

believe that there is something going on

815

00:29:19,000 --> 00:29:15,860

you can't change my mind about that and

816

00:29:21,320 --> 00:29:19,010

I'm not going to change your mind either

817

00:29:24,590 --> 00:29:21,330

and I guess that's why we're having this

818

00:29:27,650 --> 00:29:24,600

friendly debate indeed absolutely well

819

00:29:30,830 --> 00:29:27,660

stated so just one other question if you

820

00:29:32,990 --> 00:29:30,840

if you woke up tomorrow morning and you

821

00:29:34,490 --> 00:29:33,000

I don't know maybe banged your head or

822

00:29:38,210 --> 00:29:34,500

something and you said

823

00:29:40,070 --> 00:29:38,220

I want to take UFOs seriously what would

824

00:29:42,320 --> 00:29:40,080

what would happen to your career would

825

00:29:44,150 --> 00:29:42,330

you be a laughingstock do you think oh

826

00:29:45,710 --> 00:29:44,160

no I don't think so I mean that that's

827

00:29:48,050 --> 00:29:45,720

another misperception that somehow

828

00:29:49,760 --> 00:29:48,060

people that SETI are told that they

829

00:29:51,440 --> 00:29:49,770

better not you know consider the

830

00:29:54,920 --> 00:29:51,450

possibility of UFOs because they lose

831

00:29:56,300 --> 00:29:54,930

their job I get that a lot and all you

832

00:29:59,000 --> 00:29:56,310

have to do is work here and you realize

833

00:30:01,610 --> 00:29:59,010

it huh that that's pretty nonsensical

834

00:30:03,830 --> 00:30:01,620

nobody ever says that there's nobody's

835

00:30:07,070 --> 00:30:03,840

brainwashed here you gotta think of it

836

00:30:08,270 --> 00:30:07,080

this way My heavens but it is true that

837

00:30:09,650 --> 00:30:08,280

if you were to walk the halls here and

838

00:30:11,660 --> 00:30:09,660

ask the scientists how many of you think

839

00:30:13,070 --> 00:30:11,670

that you know we might be being visited

840

00:30:14,420 --> 00:30:13,080

I'm not sure you get a whole lot of

841

00:30:16,700 --> 00:30:14,430

people saying yeah that's possible

842

00:30:19,520 --> 00:30:16,710

because you know they look at the

843

00:30:20,900 --> 00:30:19,530

evidence and they they you know they've

844

00:30:22,820 --> 00:30:20,910

gone through all the same sort of

845

00:30:25,190 --> 00:30:22,830

discussion that we've had here today

846

00:30:26,960 --> 00:30:25,200

with themselves and they're they're not

847

00:30:28,340 --> 00:30:26,970

convinced but it's not that the you know

848

00:30:30,260 --> 00:30:28,350

their employer is telling them what to

849

00:30:31,640 --> 00:30:30,270

think anymore than the the you know

850

00:30:32,990 --> 00:30:31,650

Stanford University is telling its

851
00:30:34,790 --> 00:30:33,000
faculty what to think look you guys have

852
00:30:36,980 --> 00:30:34,800
got a total line here this is what you

853
00:30:39,710 --> 00:30:36,990
all have to think I mean that's not the

854
00:30:41,570 --> 00:30:39,720
nature of nekkid Emeka organization nor

855
00:30:43,520 --> 00:30:41,580
of a research organization which is ours

856
00:30:45,230 --> 00:30:43,530
everybody can think what they want but

857
00:30:47,570 --> 00:30:45,240
what I would do if I were if I thought

858
00:30:49,790 --> 00:30:47,580
that there was a good chance of this

859
00:30:51,350 --> 00:30:49,800
being true then I would have did I would

860
00:30:54,200 --> 00:30:51,360
design some very good experiments that

861
00:30:57,440 --> 00:30:54,210
could you know somehow come up with with

862
00:30:58,910 --> 00:30:57,450
better imagery or better data and that

863
00:31:00,020 --> 00:30:58,920

doesn't seem to happen I think that that

864

00:31:02,570 --> 00:31:00,030

would be a good thing to do it's hard

865

00:31:05,240 --> 00:31:02,580

because the phenomena are intermittent

866

00:31:06,800 --> 00:31:05,250

that's right and so that makes it harder

867

00:31:09,640 --> 00:31:06,810

but that doesn't mean that it's

868

00:31:12,650 --> 00:31:09,650

impossible I'll tell you the reaction of

869

00:31:14,150 --> 00:31:12,660

one of my academic colleagues in in

870

00:31:15,710 --> 00:31:14,160

Europe when we were talking about this

871

00:31:17,630 --> 00:31:15,720

and he said look Seth if I thought there

872

00:31:19,460 --> 00:31:17,640

was a 1% chance that any of that UFO

873

00:31:21,500 --> 00:31:19,470

stuff were true I would spend a hundred

874

00:31:24,080 --> 00:31:21,510

percent of my time working on it so

875

00:31:27,350 --> 00:31:24,090

there is a barrier here in that you know

876

00:31:28,820 --> 00:31:27,360

people in in in research don't think

877

00:31:31,160 --> 00:31:28,830

that there's enough they're there to

878

00:31:32,750 --> 00:31:31,170

spend their time on it so that's a

879

00:31:35,540 --> 00:31:32,760

problem and if you can come up with that

880

00:31:37,120 --> 00:31:35,550

enough they're there then you get tens

881

00:31:40,220 --> 00:31:37,130

of thousands of people working on it

882

00:31:43,790 --> 00:31:40,230

mm-hmm I agree I believe you know the

883

00:31:46,310 --> 00:31:43,800

number one problem is the sightings are

884

00:31:47,790 --> 00:31:46,320

intermittent and there's no place to

885

00:31:50,010 --> 00:31:47,800

hang out too

886

00:31:52,170 --> 00:31:50,020

you actually see them you know you say

887

00:31:54,870 --> 00:31:52,180

there's 30 a day but we have a massive

888

00:31:57,600 --> 00:31:54,880

planet in and so it is a very difficult

889

00:31:59,490 --> 00:31:57,610

thing to actually study when you can't

890

00:32:01,740 --> 00:31:59,500

grab ahold of it I understand that part

891

00:32:04,470 --> 00:32:01,750

of it yeah that's true

892

00:32:05,790 --> 00:32:04,480

I also have to say that sometimes

893

00:32:07,200 --> 00:32:05,800

there's a reluctance on the part of

894

00:32:09,600 --> 00:32:07,210

people who think that this is happening

895

00:32:11,760 --> 00:32:09,610

to do that I was in conversation with a

896

00:32:13,170 --> 00:32:11,770

couple of gentlemen in Boulder Colorado

897

00:32:14,430 --> 00:32:13,180

who claimed that they could see these

898

00:32:16,860 --> 00:32:14,440

things every day and they had videos

899

00:32:18,450 --> 00:32:16,870

they showed me and they were they were

900

00:32:20,880 --> 00:32:18,460

pointing their video cameras by the way

901
00:32:22,050 --> 00:32:20,890
toward the southeast which happens to be

902
00:32:24,180 --> 00:32:22,060
in the direction of Denver International

903
00:32:26,010 --> 00:32:24,190
Airport but they claimed that they could

904
00:32:27,330 --> 00:32:26,020
see these things every day and and that

905
00:32:28,500 --> 00:32:27,340
they knew they were UFOs because they

906
00:32:30,360 --> 00:32:28,510
were moving very fast

907
00:32:32,460 --> 00:32:30,370
that's a frequent claim that they were

908
00:32:33,810 --> 00:32:32,470
moving much faster than any aircraft but

909
00:32:36,060 --> 00:32:33,820
in order to know whether they're moving

910
00:32:37,890 --> 00:32:36,070
very fast you need to know the range you

911
00:32:39,540 --> 00:32:37,900
need to know how far away they are so

912
00:32:41,280 --> 00:32:39,550
what I suggested to these guys was they

913
00:32:42,450 --> 00:32:41,290

say once you get to you know can you see

914

00:32:43,980 --> 00:32:42,460

these things often they say we can see

915

00:32:46,620 --> 00:32:43,990

them every day I said so why don't you

916

00:32:49,020 --> 00:32:46,630

just take two video cameras space your

917

00:32:51,450 --> 00:32:49,030

guns your cells say a mile apart you

918

00:32:53,100 --> 00:32:51,460

know use cell phones or whatever to stay

919

00:32:55,530 --> 00:32:53,110

in touch and aim at the same part of the

920

00:32:57,810 --> 00:32:55,540

sky until you pick one up and do it on a

921

00:32:59,430 --> 00:32:57,820

cloudy day so you can do the simple

922

00:33:00,960 --> 00:32:59,440

geometry to figure out how far away this

923

00:33:03,720 --> 00:33:00,970

thing is and then you get the real speed

924

00:33:05,550 --> 00:33:03,730

and they didn't want to do it well I

925

00:33:07,350 --> 00:33:05,560

would I would just discount people like

926
00:33:09,930 --> 00:33:07,360
that I've heard a number of times about

927
00:33:12,360 --> 00:33:09,940
people that are aiming you know cameras

928
00:33:13,830 --> 00:33:12,370
toward ends up being toward an airport

929
00:33:15,510 --> 00:33:13,840
and the lights and everything like that

930
00:33:17,280 --> 00:33:15,520
you know I mean I would just discount

931
00:33:19,560 --> 00:33:17,290
that myself I wouldn't even think that

932
00:33:20,820 --> 00:33:19,570
yeah well the impossible thing to me was

933
00:33:24,030 --> 00:33:20,830
that they didn't want to do the

934
00:33:26,550 --> 00:33:24,040
experiment that's distressing yeah well

935
00:33:28,710 --> 00:33:26,560
that's just that case in particular I'm

936
00:33:30,390 --> 00:33:28,720
going to ask you one last question and I

937
00:33:33,090 --> 00:33:30,400
really do appreciate your time and that

938
00:33:34,590 --> 00:33:33,100

is is there any case that you've ever

939

00:33:37,160 --> 00:33:34,600

heard of that you would find just

940

00:33:39,500 --> 00:33:37,170

totally perplexing when it comes to UFOs

941

00:33:41,550 --> 00:33:39,510

no I don't think so there well

942

00:33:42,720 --> 00:33:41,560

perplexing yes there are there's some

943

00:33:44,100 --> 00:33:42,730

things you just can't explain

944

00:33:45,930 --> 00:33:44,110

I mean sometimes people will send me

945

00:33:47,250 --> 00:33:45,940

photos most of the photos I actually

946

00:33:49,410 --> 00:33:47,260

can't explain because photography

947

00:33:51,450 --> 00:33:49,420

happens to be a longtime hobby of mine

948

00:33:53,040 --> 00:33:51,460

so I recognized you know internal

949

00:33:54,930 --> 00:33:53,050

reflections in the lenses and so for

950

00:33:58,320 --> 00:33:54,940

like things like that that's that's a

951
00:34:01,379 --> 00:33:58,330
very frequent thing but sometimes you

952
00:34:03,029 --> 00:34:01,389
know they're just some light they they

953
00:34:05,069 --> 00:34:03,039
have or it maybe it's a video or you see

954
00:34:06,509 --> 00:34:05,079
some some sort of bright object moving

955
00:34:08,519 --> 00:34:06,519
across the sky and it's maybe five

956
00:34:10,740 --> 00:34:08,529
pixels across but there's a there's no

957
00:34:13,589 --> 00:34:10,750
detail in it and you know I don't know

958
00:34:15,029 --> 00:34:13,599
what it is okay so I see that but you

959
00:34:16,619 --> 00:34:15,039
know that the fact that I don't know

960
00:34:20,669 --> 00:34:16,629
what it is isn't very convincing is it

961
00:34:22,379 --> 00:34:20,679
say what would be convincing me again to

962
00:34:24,839 --> 00:34:22,389
the Native Americans sitting around on

963
00:34:26,460 --> 00:34:24,849

Watling Island in 1492 and they see

964

00:34:28,799 --> 00:34:26,470

something on the horizon which is just a

965

00:34:31,319 --> 00:34:28,809

blob at first but you know an hour later

966

00:34:33,089 --> 00:34:31,329

seems to have a couple of masts and some

967

00:34:34,319 --> 00:34:33,099

flags and some sails and things that you

968

00:34:35,940 --> 00:34:34,329

don't know the words for those things

969

00:34:38,099 --> 00:34:35,950

but you know it has structure it has

970

00:34:39,809 --> 00:34:38,109

detail and pretty soon it's close enough

971

00:34:42,240 --> 00:34:39,819

that they can make nice drawings of it

972

00:34:44,579 --> 00:34:42,250

and so boards on that sort of evidence

973

00:34:46,079 --> 00:34:44,589

you know would be more than just you

974

00:34:47,490 --> 00:34:46,089

know I don't know what it is that sort

975

00:34:50,279 --> 00:34:47,500

of evidence would say I don't know what

976

00:34:52,049 --> 00:34:50,289

it is and it's something really peculiar

977

00:34:53,849 --> 00:34:52,059

that I've never seen on the ocean before

978

00:34:56,460 --> 00:34:53,859

and that's the kind of thing that's

979

00:34:59,130 --> 00:34:56,470

missing okay well thank you so much I

980

00:35:01,170 --> 00:34:59,140

really appreciate your time well it's

981

00:35:03,450 --> 00:35:01,180

been a pleasure Martin all right and you