

DR. MICHAEL P. MASTERS

**IDENTIFIED
FLYING
OBJECTS**



1
00:00:13,960 --> 00:00:34,420

[Music]

2
00:00:39,320 --> 00:00:37,670

hello and welcome to the show I'm Martin

3
00:00:41,840 --> 00:00:39,330

Willis your host and we have an

4
00:00:46,520 --> 00:00:41,850

interesting guests this evening we have

5
00:00:50,450 --> 00:00:46,530

dr. Michael masters and he has he has a

6
00:00:54,680 --> 00:00:50,460

very interesting idea of what UFOs could

7
00:00:57,650 --> 00:00:54,690

possibly be and as most of my longtime

8
00:01:00,139 --> 00:00:57,660

listeners know I have absolutely no idea

9
00:01:02,780 --> 00:01:00,149

what they are or what's in them if

10
00:01:05,830 --> 00:01:02,790

anything is in them at all and and so I

11
00:01:08,150 --> 00:01:05,840

loved hearing different ideas and

12
00:01:09,889 --> 00:01:08,160

exploring the different thoughts that

13
00:01:11,779 --> 00:01:09,899

people come up with it's really

14

00:01:14,210 --> 00:01:11,789

enjoyable for me so he'll be coming up

15

00:01:16,940 --> 00:01:14,220

right after the news with Alejandro

16

00:01:19,639 --> 00:01:16,950

Rojas who's joining us today in just a

17

00:01:21,859 --> 00:01:19,649

minute I want to thank everyone that

18

00:01:22,969 --> 00:01:21,869

helps us out and supports the show

19

00:01:25,400 --> 00:01:22,979

anyone can do that

20

00:01:29,390 --> 00:01:25,410

that information is over at podcast UFO

21

00:01:31,969 --> 00:01:29,400

com and speaking of that we have blogs

22

00:01:35,690 --> 00:01:31,979

now every week from charles lear check

23

00:01:37,520 --> 00:01:35,700

it out this week we have something

24

00:01:40,219 --> 00:01:37,530

that's close to home for him he talks

25

00:01:42,080 --> 00:01:40,229

about UFOs in his backyard and that's

26

00:01:44,450 --> 00:01:42,090

just in the area which he lives in the

27

00:01:45,830 --> 00:01:44,460

Long Island area and he involves a

28

00:01:48,200 --> 00:01:45,840

number of people that actually have been

29

00:01:50,990 --> 00:01:48,210

on this show in the past and talking

30

00:01:52,490 --> 00:01:51,000

about you know what's going on over

31

00:01:55,490 --> 00:01:52,500

there and there it has been a lot of

32

00:01:58,429 --> 00:01:55,500

sightings out there I think it's one of

33

00:02:01,520 --> 00:01:58,439

the top I don't know if you want to call

34

00:02:02,810 --> 00:02:01,530

Hut spots but one of the the top places

35

00:02:04,609 --> 00:02:02,820

in the country where their sightings in

36

00:02:08,600 --> 00:02:04,619

New York and of course a lot of that has

37

00:02:11,710 --> 00:02:08,610

to do with population you know New York

38

00:02:15,740 --> 00:02:11,720

City the most populated city by by far

39

00:02:20,270 --> 00:02:15,750

so anyway that that blog is up there and

40

00:02:21,440 --> 00:02:20,280

I think that is that next week I just

41

00:02:23,539 --> 00:02:21,450

wanted to talk about because I always

42

00:02:27,520 --> 00:02:23,549

announced my guest for next week I don't

43

00:02:29,930 --> 00:02:27,530

have a guest for next week I do he is

44

00:02:30,949 --> 00:02:29,940

he's gonna let me know for sure if he

45

00:02:34,040 --> 00:02:30,959

can be on the show

46

00:02:36,290 --> 00:02:34,050

so I don't want to announce his name but

47

00:02:37,800 --> 00:02:36,300

anyway I like I said I usually it's

48

00:02:40,320 --> 00:02:37,810

going to be a surprise next week whoever

49

00:02:42,600 --> 00:02:40,330

the guest is going to be and anyway I'm

50

00:02:43,680 --> 00:02:42,610

gonna start the show with Alejandro all

51
00:02:48,089 --> 00:02:43,690
Rojas

52
00:02:51,780 --> 00:02:48,099
welcome to the show Alejandro thank you

53
00:02:53,160 --> 00:02:51,790
very much I am happy to be here yeah I'm

54
00:02:57,720 --> 00:02:53,170
always happy that you're here

55
00:03:03,509 --> 00:02:57,730
and so hey it's been a newsy news eat a

56
00:03:04,140 --> 00:03:03,519
doozy weeds bad news e AF sound I'd like

57
00:03:09,360 --> 00:03:04,150
to put it

58
00:03:11,699 --> 00:03:09,370
hey f okay as heck a split as flip okay

59
00:03:14,039 --> 00:03:11,709
thank you for using that word instead of

60
00:03:15,270 --> 00:03:14,049
what I thought you're gonna say well

61
00:03:17,670 --> 00:03:15,280
you're not supposed to say out the

62
00:03:19,740 --> 00:03:17,680
acronym yeah that's the whole point

63
00:03:21,270 --> 00:03:19,750

yeah but yeah but just so people know

64

00:03:23,699 --> 00:03:21,280

and I've told these people on this my on

65

00:03:26,070 --> 00:03:23,709

my show if I use like a F I mean a

66

00:03:27,089 --> 00:03:26,080

spliff I always mean that that the flip

67

00:03:29,520 --> 00:03:27,099

sounds good to know

68

00:03:31,949 --> 00:03:29,530

but anyways yes it's been so news he

69

00:03:34,250 --> 00:03:31,959

because so much has been going on really

70

00:03:40,410 --> 00:03:34,260

we're kind of in the middle of this mega

71

00:03:43,020 --> 00:03:40,420

media blast kind of fervor around UFOs

72

00:03:46,190 --> 00:03:43,030

and it all dust high-back inhabits

73

00:03:49,470 --> 00:03:46,200

everything to do with unidentified

74

00:03:51,330 --> 00:03:49,480

America's UFO investigation which is the

75

00:03:55,470 --> 00:03:51,340

television show that is coming out on

76

00:03:58,410 --> 00:03:55,480

Friday that covers essentially to the

77

00:04:01,500 --> 00:03:58,420

stars as they investigate UFOs the main

78

00:04:02,849 --> 00:04:01,510

lead character in it is Louise Elizondo

79

00:04:04,680 --> 00:04:02,859

it's a reality show

80

00:04:06,390 --> 00:04:04,690

of course he used to run the Pentagon

81

00:04:10,050 --> 00:04:06,400

program the advanced aerospace threat

82

00:04:12,300 --> 00:04:10,060

identification program a tip on so it

83

00:04:14,849 --> 00:04:12,310

also gets into cases that he looked at

84

00:04:16,979 --> 00:04:14,859

now this all started that the fervor of

85

00:04:19,319 --> 00:04:16,989

course all of this started in December

86

00:04:22,080 --> 00:04:19,329

2017 when Leslie Kane

87

00:04:24,300 --> 00:04:22,090

Ralph Blumenthal and Helen Cooper wrote

88

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

it this story about a tip and

89

00:04:27,930 --> 00:04:26,320

everybody's been really excited about it

90

00:04:31,080 --> 00:04:27,940

but we haven't gotten a whole lot of

91

00:04:33,629 --> 00:04:31,090

information and that has mostly been I

92

00:04:36,150 --> 00:04:33,639

know for a fact because of this

93

00:04:37,830 --> 00:04:36,160

television show was an idea of how do we

94

00:04:39,270 --> 00:04:37,840

get this information out there for

95

00:04:41,430 --> 00:04:39,280

better or worse so a lot of people have

96

00:04:43,620 --> 00:04:41,440

criticized it but those of us who have

97

00:04:45,719 --> 00:04:43,630

seen the program like you and I Martin

98

00:04:47,190 --> 00:04:45,729

think that this this program is really

99

00:04:49,290 --> 00:04:47,200

good at least the first episode that

100

00:04:51,480 --> 00:04:49,300

we've seen so this is how they decided

101
00:04:53,520 --> 00:04:51,490
to release this information

102
00:04:55,589 --> 00:04:53,530
but people have been wondering what is

103
00:04:57,180 --> 00:04:55,599
gonna be in the shoe and there's been

104
00:04:58,650 --> 00:04:57,190
some interviews that we've all had to

105
00:05:00,900 --> 00:04:58,660
talk about what was in the show lose

106
00:05:02,790 --> 00:05:00,910
dropped hand said other cases are gonna

107
00:05:04,439 --> 00:05:02,800
be in there and of course when the New

108
00:05:07,890 --> 00:05:04,449
York Times article came out there was a

109
00:05:10,890 --> 00:05:07,900
video in there there were two flurry

110
00:05:12,629 --> 00:05:10,900
videos one of them from the 2004 Nimitz

111
00:05:15,629 --> 00:05:12,639
event the other one we didn't have much

112
00:05:17,850 --> 00:05:15,639
information then soon after to the Stars

113
00:05:20,100 --> 00:05:17,860

released a third video and there's a lot

114

00:05:22,770 --> 00:05:20,110

of debate over the last year or so and

115

00:05:25,140 --> 00:05:22,780

and the DoD really released these videos

116

00:05:29,370 --> 00:05:25,150

we do know that they did well this all

117

00:05:31,649 --> 00:05:29,380

hit another huge mate it's all making a

118

00:05:33,809 --> 00:05:31,659

big deal again right now because in New

119

00:05:37,469 --> 00:05:33,819

York Times well for a couple articles

120

00:05:40,529 --> 00:05:37,479

first the Politico they wrote Brian

121

00:05:43,350 --> 00:05:40,539

bender the guy working with Politico who

122

00:05:45,600 --> 00:05:43,360

is actually in this new History Channel

123

00:05:50,430 --> 00:05:45,610

television show he wrote an article

124

00:05:52,140 --> 00:05:50,440

about the Navy making new guidelines Tom

125

00:05:54,510 --> 00:05:52,150

DeLonge they came out and said that to

126

00:05:57,260 --> 00:05:54,520

the Stars influenced getting the new

127

00:06:00,089 --> 00:05:57,270

Navy to make UFO reporting guidelines

128

00:06:02,879 --> 00:06:00,099

Chris Mellon them back him up a little

129

00:06:05,999 --> 00:06:02,889

bit later in an article with George

130

00:06:08,159 --> 00:06:06,009

Knapp and then some of us such as

131

00:06:11,159 --> 00:06:08,169

yourself and myself have spoken to one

132

00:06:14,730 --> 00:06:11,169

of the executive producers Anthony la

133

00:06:16,980 --> 00:06:14,740

Paix and he confirmed that not only did

134

00:06:19,080 --> 00:06:16,990

these guys have you know an influence

135

00:06:21,029 --> 00:06:19,090

with the Navy but that is going to be in

136

00:06:23,370 --> 00:06:21,039

the show we're gonna actually see this

137

00:06:26,520 --> 00:06:23,380

influence and see Lou Elizondo and the

138

00:06:28,649 --> 00:06:26,530

other to the stars guys working with the

139

00:06:31,260 --> 00:06:28,659

Navy to get all of this information out

140

00:06:33,570 --> 00:06:31,270

so on top of that there are also going

141

00:06:35,490 --> 00:06:33,580

to be some more exciting cases related

142

00:06:37,370 --> 00:06:35,500

to those other videos in the History

143

00:06:39,779 --> 00:06:37,380

Channel show and the New York Times

144

00:06:41,909 --> 00:06:39,789

finally you know what a year and a half

145

00:06:44,969 --> 00:06:41,919

later has done a follow up to their

146

00:06:47,100 --> 00:06:44,979

original I'd a tip article and this

147

00:06:48,990 --> 00:06:47,110

one's called their headlines are really

148

00:06:50,939 --> 00:06:49,000

weird actually both articles the

149

00:06:54,120 --> 00:06:50,949

headlines are weird but the headlines

150

00:06:56,459 --> 00:06:54,130

and this is wow what is that yes pilots

151
00:06:58,260 --> 00:06:56,469
report unexplained flying objects I do

152
00:07:00,120 --> 00:06:58,270
agree about the headlines I thought it

153
00:07:00,629 --> 00:07:00,130
yeah the other one was Aurora's and you

154
00:07:04,350 --> 00:07:00,639
know

155
00:07:06,029 --> 00:07:04,360
but this has a couple more pilots that

156
00:07:09,749 --> 00:07:06,039
are coming forward about events that

157
00:07:11,820 --> 00:07:09,759
took place in 2014 and 2015 so they're

158
00:07:14,610 --> 00:07:11,830
talking about these UFO sightings and

159
00:07:16,649 --> 00:07:14,620
you know essentially I don't think these

160
00:07:18,659 --> 00:07:16,659
encounters that they're talking about

161
00:07:20,519 --> 00:07:18,669
here are necessarily as exciting as

162
00:07:23,040 --> 00:07:20,529
flavors personal account

163
00:07:24,989 --> 00:07:23,050

however they are talking about more

164

00:07:27,239 --> 00:07:24,999

credible accounts where they're chasing

165

00:07:28,439 --> 00:07:27,249

essentially looking for objects that are

166

00:07:30,950 --> 00:07:28,449

showing up on radar

167

00:07:34,350 --> 00:07:30,960

one case that they talk about is really

168

00:07:37,649 --> 00:07:34,360

exciting where these two Jets are flying

169

00:07:40,019 --> 00:07:37,659

along when this jet and his wingman are

170

00:07:43,260 --> 00:07:40,029

about a hundred feet apart and some

171

00:07:45,240 --> 00:07:43,270

object zips in between them and this

172

00:07:48,929 --> 00:07:45,250

actually was a pivotal moment this

173

00:07:52,649 --> 00:07:48,939

happened I think it 2014 or 2015 early

174

00:07:53,969 --> 00:07:52,659

2015 and up until this point they

175

00:07:55,890 --> 00:07:53,979

weren't sure what these objects were

176
00:07:57,480 --> 00:07:55,900
that we're showing up on radar but once

177
00:07:58,709 --> 00:07:57,490
this thing zipped through in between

178
00:08:01,409 --> 00:07:58,719
them then they really took it seriously

179
00:08:03,510 --> 00:08:01,419
for two reasons one because they were

180
00:08:06,179 --> 00:08:03,520
getting close this was a near miss they

181
00:08:09,809 --> 00:08:06,189
could have been hurt and two because the

182
00:08:12,119 --> 00:08:09,819
object was a cube inside of a circle

183
00:08:14,459 --> 00:08:12,129
they described it as like a clear beach

184
00:08:19,350 --> 00:08:14,469
ball with a cube inside of it so it was

185
00:08:21,029 --> 00:08:19,360
extremely flipping odd Haven I said

186
00:08:22,889 --> 00:08:21,039
people have described it as kind of X

187
00:08:26,510 --> 00:08:22,899
file this title or rogue away from

188
00:08:30,300 --> 00:08:26,520

warzone wrote about how it's X file like

189

00:08:31,860 --> 00:08:30,310

because it's just so weird so at that

190

00:08:35,159 --> 00:08:31,870

point you know they took it really

191

00:08:37,259 --> 00:08:35,169

seriously and we've got a new story that

192

00:08:40,019 --> 00:08:37,269

came out just today the Washington Post

193

00:08:44,280 --> 00:08:40,029

this is a great title of this article -

194

00:08:45,600 --> 00:08:44,290

it's called essentially that UFOs are a

195

00:08:49,079 --> 00:08:45,610

big deal and now we can't

196

00:08:51,630 --> 00:08:49,089

he says UFOs exist and everyone needs to

197

00:08:53,400 --> 00:08:51,640

adjust to that fact and what's great

198

00:08:56,460 --> 00:08:53,410

about this article it's a political

199

00:08:58,500 --> 00:08:56,470

writer and he says UFOs are not the same

200

00:09:00,780 --> 00:08:58,510

as aliens that we don't know what UFOs

201
00:09:03,660 --> 00:09:00,790
are there unidentified what's beautiful

202
00:09:05,430 --> 00:09:03,670
about that is all of us know that but

203
00:09:07,920 --> 00:09:05,440
this has been a real hard sell this has

204
00:09:10,199 --> 00:09:07,930
been hard to educate the mainstream from

205
00:09:12,269 --> 00:09:10,209
mainstream media on that point because

206
00:09:14,009 --> 00:09:12,279
they always want to go to aliens so it's

207
00:09:17,669 --> 00:09:14,019
great to see him writing that and

208
00:09:20,819 --> 00:09:17,679
and just now I just posted some videos

209
00:09:22,559 --> 00:09:20,829
that I got from history of interviews

210
00:09:24,809 --> 00:09:22,569
with these pilots that from that New

211
00:09:28,109 --> 00:09:24,819
York Times article and these are small

212
00:09:30,030 --> 00:09:28,119
clips about minute minute and a half of

213
00:09:32,100 --> 00:09:30,040

these pilots talking about these in

214

00:09:35,609 --> 00:09:32,110

calendars and these are clips from the

215

00:09:38,879 --> 00:09:35,619

show from upcoming episodes so really

216

00:09:41,369 --> 00:09:38,889

exciting stuff one other story to plug

217

00:09:43,559 --> 00:09:41,379

my stories I wrote another story that

218

00:09:45,299 --> 00:09:43,569

just came out yesterday I know it just

219

00:09:47,759 --> 00:09:45,309

came out this morning and den of geek

220

00:09:49,259 --> 00:09:47,769

but this was centered around why Tom

221

00:09:52,559 --> 00:09:49,269

DeLonge I think a lot of people are

222

00:09:54,929 --> 00:09:52,569

seeing the previews for unidentified and

223

00:09:58,319 --> 00:09:54,939

they see Lou Elizondo you know this

224

00:10:00,900 --> 00:09:58,329

career intelligence guy they show Chris

225

00:10:02,669 --> 00:10:00,910

melon who was you know worked

226

00:10:05,369 --> 00:10:02,679

intelligence with like the deputy

227

00:10:07,049 --> 00:10:05,379

assistant to you know national

228

00:10:08,669 --> 00:10:07,059

intelligence crazy working at the White

229

00:10:11,299 --> 00:10:08,679

House and the Pentagon and everything

230

00:10:13,889 --> 00:10:11,309

Steve justice a guy who worked for

231

00:10:17,220 --> 00:10:13,899

Lockheed Martin skunk works these are

232

00:10:19,230 --> 00:10:17,230

the guys who built the sr-71 so you have

233

00:10:21,389 --> 00:10:19,240

all of these very highly credible people

234

00:10:23,519 --> 00:10:21,399

what's with this rock star right in the

235

00:10:24,929 --> 00:10:23,529

middle of it yeah of course a lot of us

236

00:10:27,150 --> 00:10:24,939

know who have been following this and

237

00:10:28,949 --> 00:10:27,160

this is the gist of the article is that

238

00:10:31,139 --> 00:10:28,959

none of this really would have happened

239

00:10:32,789 --> 00:10:31,149

without Tom DeLonge and what's really

240

00:10:35,129 --> 00:10:32,799

funny as I wrote this article probably

241

00:10:37,439 --> 00:10:35,139

few three weeks ago but after this news

242

00:10:39,780 --> 00:10:37,449

with not just the Navy changing their

243

00:10:41,609 --> 00:10:39,790

guidelines with all of these Navy pilots

244

00:10:44,359 --> 00:10:41,619

coming forward and the mainstream taking

245

00:10:47,730 --> 00:10:44,369

this seriously and it all comes back to

246

00:10:50,609 --> 00:10:47,740

Tom DeLonge really Tom DeLonge this

247

00:10:52,859 --> 00:10:50,619

might have happened maybe in the months

248

00:10:54,900 --> 00:10:52,869

from now or years from now as people

249

00:10:56,999 --> 00:10:54,910

kind of came out but he was kind of the

250

00:10:59,280 --> 00:10:57,009

person who coalesced all this and

251
00:11:02,789 --> 00:10:59,290
brought everybody together and focused

252
00:11:04,739 --> 00:11:02,799
this effort and Tom DeLonge deserves an

253
00:11:07,470 --> 00:11:04,749
immense amount of credit for all of this

254
00:11:10,379 --> 00:11:07,480
yeah as long as he stays off like Joe

255
00:11:12,329 --> 00:11:10,389
Rogan show you know as long as he say he

256
00:11:13,679 --> 00:11:12,339
still has some really crazy ideas and I

257
00:11:15,329 --> 00:11:13,689
don't know about you but I have a lot of

258
00:11:17,489 --> 00:11:15,339
people harassing me well what about Tom

259
00:11:19,859 --> 00:11:17,499
Tom said this and Tom said that and I'd

260
00:11:22,259 --> 00:11:19,869
say it's great but what Tom says we

261
00:11:24,179 --> 00:11:22,269
don't have anything corroborating what

262
00:11:26,579 --> 00:11:24,189
Lou says now we have a lot of government

263
00:11:27,990 --> 00:11:26,589

documents that have come out DOD at

264

00:11:30,300 --> 00:11:28,000

first kind of

265

00:11:32,970 --> 00:11:30,310

claimed that Lou was inaccurate and some

266

00:11:34,680 --> 00:11:32,980

things but it you know finally recently

267

00:11:36,990 --> 00:11:34,690

they've had to admit that no Lou was

268

00:11:39,870 --> 00:11:37,000

right about all of these things that a

269

00:11:42,480 --> 00:11:39,880

tip was about UFOs that they did release

270

00:11:43,860 --> 00:11:42,490

the T videos so Lou has a lot of

271

00:11:46,950 --> 00:11:43,870

corroborating evidence

272

00:11:49,860 --> 00:11:46,960

all of these Navy guys have you know

273

00:11:52,020 --> 00:11:49,870

other pilots radar that they can back up

274

00:11:54,000 --> 00:11:52,030

their claims so a lot of the more fringy

275

00:11:56,340 --> 00:11:54,010

kind of wild ideas that Tom DeLonge hat

276

00:11:57,990 --> 00:11:56,350

has have still really don't have any

277

00:12:01,920 --> 00:11:58,000

idea where he got some of those ideas

278

00:12:06,210 --> 00:12:01,930

but nevertheless this crazy rock star

279

00:12:10,080 --> 00:12:06,220

guy is rockin through UFO world oh what

280

00:12:12,780 --> 00:12:10,090

a great title extra rock and I see the

281

00:12:15,420 --> 00:12:12,790

world there will be a song I'm you know

282

00:12:16,230 --> 00:12:15,430

it you kind of give credit where

283

00:12:19,260 --> 00:12:16,240

credit's due

284

00:12:21,990 --> 00:12:19,270

exactly and I think you know there's a

285

00:12:24,150 --> 00:12:22,000

lot of people that really really do not

286

00:12:27,570 --> 00:12:24,160

want to give Tom DeLonge any credit at

287

00:12:30,270 --> 00:12:27,580

all and I kind of get that the reason I

288

00:12:32,430 --> 00:12:30,280

kind of get that is because you know he

289

00:12:33,630 --> 00:12:32,440

comes out of nowhere basically and

290

00:12:36,440 --> 00:12:33,640

there's people have been working really

291

00:12:39,360 --> 00:12:36,450

hard you know perhaps their entire life

292

00:12:41,370 --> 00:12:39,370

trying to you know get some headway here

293

00:12:43,410 --> 00:12:41,380

I've been at it a couple decades have

294

00:12:45,600 --> 00:12:43,420

yeah and lord knows how much money and

295

00:12:47,310 --> 00:12:45,610

he just kind of you know I don't want to

296

00:12:50,280 --> 00:12:47,320

say he fell into it but maybe he did

297

00:12:51,810 --> 00:12:50,290

fall into it it kind of but you know his

298

00:12:55,500 --> 00:12:51,820

celebrity status he would have never

299

00:12:56,700 --> 00:12:55,510

gone anywhere really with with that you

300

00:12:58,740 --> 00:12:56,710

know well I think that you've got a

301
00:13:00,960 --> 00:12:58,750
great point there because in a way I

302
00:13:03,810 --> 00:13:00,970
think he did it's not just his celebrity

303
00:13:07,470 --> 00:13:03,820
status he was wise enough to go to the

304
00:13:10,740 --> 00:13:07,480
right place you know somebody keeps

305
00:13:12,870 --> 00:13:10,750
sending us notes but I think that the

306
00:13:15,030 --> 00:13:12,880
person who's sending us notes doesn't

307
00:13:18,600 --> 00:13:15,040
have everything right but in a way they

308
00:13:20,340 --> 00:13:18,610
do I think that you know they're

309
00:13:22,260 --> 00:13:20,350
mentioning like how put off who's part

310
00:13:23,640 --> 00:13:22,270
of the group which is true that helped

311
00:13:25,470 --> 00:13:23,650
put off as part of the group and has

312
00:13:27,330 --> 00:13:25,480
been very helpful kicked green it's

313
00:13:30,630 --> 00:13:27,340

worked in this field but the point being

314

00:13:33,630 --> 00:13:30,640

at robert bigelow a lot of this comes

315

00:13:35,790 --> 00:13:33,640

back to all of this group of researchers

316

00:13:37,620 --> 00:13:35,800

and very credible people who have worked

317

00:13:39,960 --> 00:13:37,630

inside of government to make the

318

00:13:41,820 --> 00:13:39,970

paranormal serious to make people pay

319

00:13:44,180 --> 00:13:41,830

attention to the credible

320

00:13:47,160 --> 00:13:44,190

all evidence towards different

321

00:13:50,600 --> 00:13:47,170

paranormal aspects decades and now

322

00:13:54,180 --> 00:13:50,610

really with the help of Tom DeLonge and

323

00:13:55,980 --> 00:13:54,190

kind of a more of a coalescing and a

324

00:13:58,080 --> 00:13:55,990

team kind of atmosphere among all of

325

00:14:01,020 --> 00:13:58,090

these people and help from people like

326

00:14:02,760 --> 00:14:01,030

Leslie Kane and Ralph Blumenthal who

327

00:14:05,070 --> 00:14:02,770

write these articles for the New York

328

00:14:07,170 --> 00:14:05,080

Times we've got this perfect storm

329

00:14:09,630 --> 00:14:07,180

situation where it's all coming together

330

00:14:11,190 --> 00:14:09,640

now with a History Channel show and

331

00:14:12,960 --> 00:14:11,200

people are gonna have to take our word

332

00:14:15,060 --> 00:14:12,970

for it that the History Channel is good

333

00:14:17,160 --> 00:14:15,070

show is good and I don't blame them in

334

00:14:18,870 --> 00:14:17,170

my review I wrote I could see how you'd

335

00:14:20,970 --> 00:14:18,880

be skeptical especially when History

336

00:14:22,920 --> 00:14:20,980

Channel's doing ancient aliens and this

337

00:14:25,320 --> 00:14:22,930

shows coming right after ancient alien

338

00:14:27,060 --> 00:14:25,330

yes but it's much much different than

339

00:14:29,880 --> 00:14:27,070

ancient aliens and you can attest to

340

00:14:33,750 --> 00:14:29,890

that yeah I have only watched up ancient

341

00:14:36,150 --> 00:14:33,760

healing aliens a couple of times in my

342

00:14:37,770 --> 00:14:36,160

life so and it was a long time ago so I

343

00:14:43,230 --> 00:14:37,780

don't really I can't really remember

344

00:14:45,270 --> 00:14:43,240

much about it only cyclists hair you

345

00:14:47,190 --> 00:14:45,280

know well that kind of speaks volumes

346

00:14:50,010 --> 00:14:47,200

though because you're into this topic

347

00:14:52,080 --> 00:14:50,020

yet you're not that big of a fan of

348

00:14:54,150 --> 00:14:52,090

ancient aliens and I'm in the same boat

349

00:14:56,400 --> 00:14:54,160

I love Giorgio I love the guys who are

350

00:14:59,190 --> 00:14:56,410

in the show they're personal friends

351

00:15:03,090 --> 00:14:59,200

many of them but that's really not my

352

00:15:06,420 --> 00:15:03,100

cup of tea so much however unidentified

353

00:15:10,740 --> 00:15:06,430

is it's it's hard-hitting evidence and

354

00:15:13,560 --> 00:15:10,750

facts Navy pilots jet fighters exciting

355

00:15:15,480 --> 00:15:13,570

stuff yeah great stuff excellent well

356

00:15:16,680 --> 00:15:15,490

alejandro thank you so much yeah and

357

00:15:19,860 --> 00:15:16,690

it's really you know the news is

358

00:15:23,040 --> 00:15:19,870

breaking daily it seems it is I mean

359

00:15:24,840 --> 00:15:23,050

it's it's keeping me so busy it's a it I

360

00:15:27,540 --> 00:15:24,850

think it's breaking even you know

361

00:15:29,550 --> 00:15:27,550

throughout the day even today's been so

362

00:15:31,320 --> 00:15:29,560

hot with several great stories and now

363

00:15:33,780 --> 00:15:31,330

these videos that I literally just

364

00:15:35,730 --> 00:15:33,790

posted because before coming on with you

365

00:15:38,460 --> 00:15:35,740

so yeah it's exciting Seth

366

00:15:40,170 --> 00:15:38,470

so check out is it at your own channel -

367

00:15:41,700 --> 00:15:40,180

what's the name of your channel most of

368

00:15:43,800 --> 00:15:41,710

this news you can find that open mind

369

00:15:45,540 --> 00:15:43,810

stat TV and I'll have this article up

370

00:15:48,660 --> 00:15:45,550

there soon but otherwise you can also

371

00:15:52,230 --> 00:15:48,670

find it at on my social media alejandro

372

00:15:55,140 --> 00:15:52,240

t rojas is my twitter or also Alejandro

373

00:15:55,769 --> 00:15:55,150

de Rojas comm excellent all right I'll

374

00:15:58,379 --> 00:15:55,779

handle thanks

375

00:15:59,400 --> 00:15:58,389

and I'll be talking next week all righty

376

00:16:01,679 --> 00:15:59,410

later ah thanks man

377

00:16:04,499 --> 00:16:01,689

thank you all right our guests this

378

00:16:08,069 --> 00:16:04,509

evening pretty excited about talking

379

00:16:10,710 --> 00:16:08,079

about this subject and it's dr. Michael

380

00:16:13,739 --> 00:16:10,720

P masters and he is a professor of

381

00:16:17,069 --> 00:16:13,749

biological anthropology at Montana Tech

382

00:16:19,139 --> 00:16:17,079

in Butte Montana he received a PhD in

383

00:16:21,900 --> 00:16:19,149

anthropology from the Ohio State

384

00:16:24,689 --> 00:16:21,910

University in 2009 where he specialized

385

00:16:27,559 --> 00:16:24,699

in human evolutionary anatomy archeology

386

00:16:30,799 --> 00:16:27,569

and biomedicine his new book is called

387

00:16:33,540 --> 00:16:30,809

identified flying objects a

388

00:16:36,509 --> 00:16:33,550

multidisciplinary scientific approach to

389

00:16:38,009 --> 00:16:36,519

the UFO phenomenon challenges readers to

390

00:16:40,530 --> 00:16:38,019

consider the new possibilities while

391

00:16:42,540 --> 00:16:40,540

cultivating conversations about our

392

00:16:46,049 --> 00:16:42,550

ever-evolving understanding of time and

393

00:16:48,420 --> 00:16:46,059

time travel and this is why he's on to

394

00:16:51,929 --> 00:16:48,430

cultivate a conversation welcome to the

395

00:16:54,150 --> 00:16:51,939

show dr. masters thanks Martin so great

396

00:16:58,139 --> 00:16:54,160

to be everything strap me on yes yeah so

397

00:17:00,809 --> 00:16:58,149

I guess so I'm gonna start out by asking

398

00:17:04,409 --> 00:17:00,819

you to talk about your background and

399

00:17:07,559 --> 00:17:04,419

kind of what made you decide to look

400

00:17:10,620 --> 00:17:07,569

take a look at this this whole idea of

401
00:17:13,529 --> 00:17:10,630
yours well it all started when I was a

402
00:17:17,370 --> 00:17:13,539
small child I was about eight years old

403
00:17:18,990 --> 00:17:17,380
and overheard a conversation that my

404
00:17:20,309 --> 00:17:19,000
parents were having with some friends

405
00:17:22,799 --> 00:17:20,319
that were over at our house and I

406
00:17:24,360 --> 00:17:22,809
remember creeping down the stairs and

407
00:17:27,000 --> 00:17:24,370
kind of sitting up on the stairs and

408
00:17:30,180 --> 00:17:27,010
listening and it was this crazy story

409
00:17:32,820 --> 00:17:30,190
about this glowing ball of light that my

410
00:17:35,789 --> 00:17:32,830
father saw a short period of time before

411
00:17:37,770 --> 00:17:35,799
I was born and described it as this

412
00:17:40,799 --> 00:17:37,780
glowing orb sitting across the horizon

413
00:17:44,310 --> 00:17:40,809

in a very dark part of Ohio in Amish

414

00:17:46,200 --> 00:17:44,320

country and said it shot toward the

415

00:17:47,639 --> 00:17:46,210

truck him and someone a colleague that

416

00:17:50,430 --> 00:17:47,649

were riding along with him that night

417

00:17:52,320 --> 00:17:50,440

both observed the same thing sat there

418

00:17:54,149 --> 00:17:52,330

for a little bit shot back across the

419

00:17:56,760 --> 00:17:54,159

horizon hovered there for a while then

420

00:17:59,010 --> 00:17:56,770

went straight up and that that really

421

00:18:02,730 --> 00:17:59,020

piqued my interest and made me want to

422

00:18:08,159 --> 00:18:02,740

learn more about it well and did he ever

423

00:18:09,510 --> 00:18:08,169

try to you know tried to decide what he

424

00:18:11,669 --> 00:18:09,520

thought he saw I'm

425

00:18:15,390 --> 00:18:11,679

did he I did the actual of the word UFO

426
00:18:17,700 --> 00:18:15,400
actually come out you know what did do

427
00:18:20,130 --> 00:18:17,710
you think you saw yeah well I mean I

428
00:18:21,840 --> 00:18:20,140
think he was really confused as as our

429
00:18:25,380 --> 00:18:21,850
most people that have an experience like

430
00:18:28,560 --> 00:18:25,390
that he he did try to get some level of

431
00:18:30,650 --> 00:18:28,570
understanding what was really formative

432
00:18:33,270 --> 00:18:30,660
for me personally was that he got

433
00:18:35,430 --> 00:18:33,280
Whitley Strieber spoke communion and I

434
00:18:37,530 --> 00:18:35,440
remember seeing it up on the shelf in

435
00:18:39,870 --> 00:18:37,540
our living room and kind of had this

436
00:18:42,090 --> 00:18:39,880
mental image that I described early in

437
00:18:44,340 --> 00:18:42,100
the book is just kind of a chimpanzee

438
00:18:48,000 --> 00:18:44,350

and early hominin form a modern human

439

00:18:50,460 --> 00:18:48,010

form and then this archetypal alien form

440

00:18:54,210 --> 00:18:50,470

with a big head big eyes small face and

441

00:18:55,770 --> 00:18:54,220

whatnot and this it sort of made me

442

00:18:58,320 --> 00:18:55,780

wonder if there could be some sort of

443

00:19:00,030 --> 00:18:58,330

phylogenetic evolutionary connection

444

00:19:03,480 --> 00:19:00,040

there and that's that's what set me down

445

00:19:07,140 --> 00:19:03,490

this path but he really didn't talk

446

00:19:10,740 --> 00:19:07,150

about it much I remember actually having

447

00:19:12,900 --> 00:19:10,750

to ask him about it I think I was in

448

00:19:15,540 --> 00:19:12,910

college maybe a sophomore junior in

449

00:19:16,950 --> 00:19:15,550

college and sat down just just because I

450

00:19:20,190 --> 00:19:16,960

was really starting to look into this

451

00:19:22,680 --> 00:19:20,200

more and wanted to get a take on his

452

00:19:25,799 --> 00:19:22,690

personal experiences but other than that

453

00:19:27,540 --> 00:19:25,809

little sit down we had many years ago it

454

00:19:31,500 --> 00:19:27,550

really wasn't something he brought up or

455

00:19:34,470 --> 00:19:31,510

or discussed willingly kind of took some

456

00:19:36,660 --> 00:19:34,480

prodding to get him to even describe his

457

00:19:38,250 --> 00:19:36,670

personal experience but I know he was

458

00:19:39,750 --> 00:19:38,260

certainly interested in trying to get

459

00:19:41,549 --> 00:19:39,760

more information because when you see

460

00:19:44,250 --> 00:19:41,559

something like that there's there's

461

00:19:47,130 --> 00:19:44,260

really no way to just ignore it I think

462

00:19:50,280 --> 00:19:47,140

everybody it's a life-changing thing and

463

00:19:52,320 --> 00:19:50,290

people really want some explanation or

464

00:19:53,970 --> 00:19:52,330

at least some answers for what that

465

00:19:55,860 --> 00:19:53,980

might have been yeah that's actually why

466

00:19:58,500 --> 00:19:55,870

I'm here you know was it really

467

00:20:01,470 --> 00:19:58,510

experience I had yeah what was yours it

468

00:20:03,660 --> 00:20:01,480

was a you know what's it's by most

469

00:20:07,530 --> 00:20:03,670

people sightings I have to tell you it

470

00:20:11,390 --> 00:20:07,540

was it was you know boring you know it

471

00:20:13,970 --> 00:20:11,400

was I was in basically in a hot tub and

472

00:20:17,610 --> 00:20:13,980

it's something caught my eye it was in

473

00:20:18,750 --> 00:20:17,620

Carmel Valley California back in 2006

474

00:20:20,549 --> 00:20:18,760

something caught my eye I've told this

475

00:20:24,060 --> 00:20:20,559

story number time so

476
00:20:26,789 --> 00:20:24,070
and listener bear with me here and so I

477
00:20:29,190 --> 00:20:26,799
looked up and it was it was sort of dusk

478
00:20:32,340 --> 00:20:29,200
you know wasn't really nightfall and I

479
00:20:34,470 --> 00:20:32,350
saw this perfectly shaped disc I would

480
00:20:36,720 --> 00:20:34,480
say it's like probably the size of it's

481
00:20:38,669 --> 00:20:36,730
hard to say look like the size of a

482
00:20:41,580 --> 00:20:38,679
quarter I guess I don't know exactly how

483
00:20:46,950 --> 00:20:41,590
high up it was and it had like a light

484
00:20:49,950 --> 00:20:46,960
blue glow and no lights or anything and

485
00:20:51,029 --> 00:20:49,960
it just it moved and silently and that

486
00:20:53,340 --> 00:20:51,039
was the thing that freaked me out the

487
00:20:55,649 --> 00:20:53,350
most is like wow there's no noise this

488
00:20:58,499 --> 00:20:55,659

thing is you know not a single noise and

489

00:21:02,549 --> 00:20:58,509

then it just stopped and then went off

490

00:21:04,799 --> 00:21:02,559

in an angle toward Carmel I'm sorry

491

00:21:05,669 --> 00:21:04,809

toward Monterey so I I jumped out of the

492

00:21:07,379 --> 00:21:05,679

hot tub and called

493

00:21:08,940 --> 00:21:07,389

I didn't know what I didn't know if any

494

00:21:10,710 --> 00:21:08,950

reporting centers or anything like that

495

00:21:13,230 --> 00:21:10,720

never even dawned to me to look on

496

00:21:14,879 --> 00:21:13,240

online or anything and so I called the

497

00:21:16,769 --> 00:21:14,889

police department and said is anyone

498

00:21:19,320 --> 00:21:16,779

else seeing this and I was put on hold

499

00:21:21,539 --> 00:21:19,330

for about twenty minutes and gave up so

500

00:21:24,180 --> 00:21:21,549

it's kind of a boring sighting there no

501
00:21:26,430 --> 00:21:24,190
I don't think so at all in fact it's I

502
00:21:28,649 --> 00:21:26,440
haven't seen anything so to me that's

503
00:21:30,749 --> 00:21:28,659
that's phenomenal it's a really great

504
00:21:32,100 --> 00:21:30,759
experience and a cool place to see it

505
00:21:34,289 --> 00:21:32,110
too actually this came from Monterey

506
00:21:36,840 --> 00:21:34,299
last week I was there as part of a book

507
00:21:38,669 --> 00:21:36,850
tour I was on and so beautiful beautiful

508
00:21:41,549 --> 00:21:38,679
area oh isn't it yeah it was really nice

509
00:21:45,629 --> 00:21:41,559
I've lived out that way for I think it

510
00:21:47,369 --> 00:21:45,639
was nine years so um the the the thing

511
00:21:49,049 --> 00:21:47,379
I'm coming up with did your did you

512
00:21:53,249 --> 00:21:49,059
father actually see an entity of some

513
00:21:54,600 --> 00:21:53,259

type no no just the just the light and

514

00:21:57,419 --> 00:21:54,610

it was the same thing there weren't

515

00:22:00,149 --> 00:21:57,429

lights on it he just he described it as

516

00:22:03,029 --> 00:22:00,159

glowing it's just not not radiating

517

00:22:05,039 --> 00:22:03,039

beams of light as they do when you look

518

00:22:06,600 --> 00:22:05,049

at a bright light in the dark street

519

00:22:09,389 --> 00:22:06,610

light or whatever but just sort of a

520

00:22:13,399 --> 00:22:09,399

glow that I had yeah but no I don't

521

00:22:15,659 --> 00:22:13,409

think I don't think it was a any sort of

522

00:22:17,730 --> 00:22:15,669

presence of a being or any sort of

523

00:22:20,430 --> 00:22:17,740

communication or anything like that yeah

524

00:22:22,739 --> 00:22:20,440

yeah you know we're gonna be talking

525

00:22:25,259 --> 00:22:22,749

about time travel the possibility of it

526

00:22:28,649 --> 00:22:25,269

and this is what your book kind of I

527

00:22:30,840 --> 00:22:28,659

believe the the basis of a possible

528

00:22:33,119 --> 00:22:30,850

basis of it and you know as a kid I

529

00:22:34,390 --> 00:22:33,129

remember I used to I used to make a lot

530

00:22:36,520 --> 00:22:34,400

of stupid jokes and one of them

531

00:22:38,080 --> 00:22:36,530

was well we'll never invent time travel

532

00:22:40,390 --> 00:22:38,090

because we never see anyone from the

533

00:22:42,880 --> 00:22:40,400

future but I think your book kind of is

534

00:22:44,650 --> 00:22:42,890

questioning that it addresses that

535

00:22:47,530 --> 00:22:44,660

specifically that was always Stephen

536

00:22:49,120 --> 00:22:47,540

Hawking's principle argument to is that

537

00:22:51,430 --> 00:22:49,130

because we're not inundated with time

538

00:22:54,550 --> 00:22:51,440

tourists it must mean that time travel

539

00:22:56,680 --> 00:22:54,560

will never be possible yeah yeah one of

540

00:22:59,140 --> 00:22:56,690

the things up I was thinking about know

541

00:23:02,100 --> 00:22:59,150

what I wanted to tell you your your get

542

00:23:05,220 --> 00:23:02,110

your thoughts on this ISM I had an

543

00:23:08,620 --> 00:23:05,230

astrobiologist on this show

544

00:23:11,200 --> 00:23:08,630

astrophysicists on the show a number of

545

00:23:13,710 --> 00:23:11,210

years ago and Jeffrey I just can't think

546

00:23:18,490 --> 00:23:13,720

of his last name right now and he said

547

00:23:21,370 --> 00:23:18,500

that him and his colleagues at NASA was

548

00:23:23,350 --> 00:23:21,380

a senior visiting scientists at NASA and

549

00:23:26,320 --> 00:23:23,360

he said they would kind of talk you know

550

00:23:28,930 --> 00:23:26,330

quietly and one of the things you know

551
00:23:31,120 --> 00:23:28,940
about the possibility of you know space

552
00:23:33,100 --> 00:23:31,130
travel and all that and one of the

553
00:23:35,850 --> 00:23:33,110
things they you know that they kind of

554
00:23:37,690 --> 00:23:35,860
bounced off each other is that if a

555
00:23:39,910 --> 00:23:37,700
civilization can get through the

556
00:23:41,740 --> 00:23:39,920
bottleneck of Technology without blowing

557
00:23:44,410 --> 00:23:41,750
themselves up then they would be

558
00:23:47,560 --> 00:23:44,420
traveling the Stars and this so I wanted

559
00:23:50,050 --> 00:23:47,570
to wanted to get your your feedback on

560
00:23:52,060 --> 00:23:50,060
that phrase yeah I mean that was a big

561
00:23:54,490 --> 00:23:52,070
part of the Drake Equation too I think

562
00:23:57,940 --> 00:23:54,500
one of the most important variables is

563
00:24:00,820 --> 00:23:57,950

El in his equation is how long does a

564

00:24:02,530 --> 00:24:00,830

civilization exist how long can they

565

00:24:05,680 --> 00:24:02,540

persist after they reached that point

566

00:24:09,450 --> 00:24:05,690

when they develop complex societies and

567

00:24:12,120 --> 00:24:09,460

in politics and economics and war and

568

00:24:15,310 --> 00:24:12,130

yeah it does seem like there would be

569

00:24:18,640 --> 00:24:15,320

some sort of intrinsic bottleneck

570

00:24:21,100 --> 00:24:18,650

associated with that in looking at

571

00:24:22,780 --> 00:24:21,110

humanity on this planet and that is

572

00:24:25,540 --> 00:24:22,790

currently our only frame of reference

573

00:24:26,980 --> 00:24:25,550

since we don't have other visitors from

574

00:24:28,870 --> 00:24:26,990

other planets coming here and

575

00:24:31,330 --> 00:24:28,880

interacting with us openly and telling

576

00:24:33,670 --> 00:24:31,340

us what's going on on their own planet

577

00:24:35,350 --> 00:24:33,680

but here yeah we've been a very warm on

578

00:24:36,910 --> 00:24:35,360

green species for a long time and there

579

00:24:39,040 --> 00:24:36,920

have been very peaceful societies

580

00:24:42,040 --> 00:24:39,050

throughout history and prehistory but

581

00:24:43,870 --> 00:24:42,050

they tend to not last very long or have

582

00:24:46,210 --> 00:24:43,880

been driven to the outskirts by

583

00:24:47,950 --> 00:24:46,220

agricultural groups especially after the

584

00:24:49,810 --> 00:24:47,960

Neolithic Revolution

585

00:24:53,260 --> 00:24:49,820

the dawn of Agriculture and and yeah

586

00:24:55,960 --> 00:24:53,270

ever since then we anytime as I tell my

587

00:24:57,970 --> 00:24:55,970

my anthropology classes anytime humans

588

00:25:00,130 --> 00:24:57,980

have developed technology to kill each

589

00:25:02,350 --> 00:25:00,140

other better that technology and those

590

00:25:04,300 --> 00:25:02,360

people spread very rapidly you see it

591

00:25:06,610 --> 00:25:04,310

with the Copper Age Iron Age gunpowder

592

00:25:08,560 --> 00:25:06,620

age and now with the potential to

593

00:25:10,810 --> 00:25:08,570

completely wipe ourselves out or at

594

00:25:12,670 --> 00:25:10,820

least to really damage the human

595

00:25:14,140 --> 00:25:12,680

population and the earth that we live on

596

00:25:15,880 --> 00:25:14,150

with nuclear war

597

00:25:19,180 --> 00:25:15,890

yeah it really makes you think about

598

00:25:22,930 --> 00:25:19,190

that and and contemplate how important

599

00:25:24,960 --> 00:25:22,940

that might be what if we did create a

600

00:25:27,490 --> 00:25:24,970

true bottleneck both genetically

601

00:25:29,380 --> 00:25:27,500

technologically it set us back

602

00:25:31,330 --> 00:25:29,390

tremendously in all of the progress

603

00:25:33,070 --> 00:25:31,340

that's brought us to where we are today

604

00:25:35,560 --> 00:25:33,080

I definitely think that's important to

605

00:25:37,810 --> 00:25:35,570

consider yeah yeah well we're right at

606

00:25:40,720 --> 00:25:37,820

our break right now so we're going to go

607

00:25:43,270 --> 00:25:40,730

to a break and so hang in there everyone

608

00:25:57,420 --> 00:25:43,280

over at kera we'll be right back right

609

00:25:57,430 --> 00:26:04,979

race a race

610

00:26:10,769 --> 00:26:07,649

I'm not sure if you if race is there and

611

00:26:15,169 --> 00:26:10,779

brought us to break or not so we'll I

612

00:26:19,739 --> 00:26:17,399

it's the first time this has happened

613

00:26:24,239 --> 00:26:19,749

when in doubt when in doubt keep going I

614

00:26:27,509 --> 00:26:24,249

guess yeah yeah so no I think you know I

615

00:26:30,229 --> 00:26:27,519

think of a number of things and you know

616

00:26:32,369 --> 00:26:30,239

you've heard you know the fear of

617

00:26:35,609 --> 00:26:32,379

artificial intelligence you know I mean

618

00:26:37,559 --> 00:26:35,619

mm-hmm what that can do in the future I

619

00:26:39,599 --> 00:26:37,569

mean you know you could create a machine

620

00:26:42,149 --> 00:26:39,609

that says destroy the world and you know

621

00:26:44,099 --> 00:26:42,159

keep creating new machines to destroy

622

00:26:45,539 --> 00:26:44,109

the world and you know and then it can

623

00:26:48,689 --> 00:26:45,549

get out of control you know that's kind

624

00:26:50,729 --> 00:26:48,699

of like you know maybe that's a little

625

00:26:52,949 --> 00:26:50,739

way out there but I mean if well it's

626

00:26:55,259 --> 00:26:52,959

it's been a theme in so many science

627

00:26:57,659 --> 00:26:55,269

fiction films and a lot of times those

628

00:26:59,759 --> 00:26:57,669

are based in real fears real

629

00:27:02,219 --> 00:26:59,769

possibilities I could certainly see

630

00:27:04,019 --> 00:27:02,229

where where there might be the potential

631

00:27:06,599 --> 00:27:04,029

for that you think as humans we would

632

00:27:08,189 --> 00:27:06,609

tame it once it got to the point where

633

00:27:09,930 --> 00:27:08,199

it maybe that could potentially happen

634

00:27:12,299 --> 00:27:09,940

and a lot of it comes down to

635

00:27:14,669 --> 00:27:12,309

consciousness - and this idea of free

636

00:27:17,849 --> 00:27:14,679

will and there may be more to it than

637

00:27:19,739 --> 00:27:17,859

just the robots decide to do this but no

638

00:27:21,509 --> 00:27:19,749

it's it's definitely something who

639

00:27:23,669 --> 00:27:21,519

wasn't it I think Elon Musk

640

00:27:25,349 --> 00:27:23,679

just came out recently and yeah and

641

00:27:28,999 --> 00:27:25,359

warned us of that and a couple other

642

00:27:31,649 --> 00:27:29,009

high-level executives smart people

643

00:27:33,599 --> 00:27:31,659

certainly very intelligent and connected

644

00:27:35,189 --> 00:27:33,609

people so yeah when when people like

645

00:27:37,799 --> 00:27:35,199

Elon Musk say we should be afraid of

646

00:27:38,819 --> 00:27:37,809

that I definitely sit up and listen yeah

647

00:27:44,939 --> 00:27:38,829

yeah definitely

648

00:27:47,549 --> 00:27:44,949

yeah and and so if if one of the things

649

00:27:49,680 --> 00:27:47,559

I have said many times on this show also

650

00:27:51,779 --> 00:27:49,690

when talking with people that have

651
00:27:55,139 --> 00:27:51,789
different ideas on you know what

652
00:27:57,889 --> 00:27:55,149
possibly could UFOs be I always say a

653
00:28:01,289 --> 00:27:57,899
lot of times that we often think in

654
00:28:03,599 --> 00:28:01,299
terms of human terms and it's so hard to

655
00:28:06,109 --> 00:28:03,609
and that that comes to everything even

656
00:28:09,029 --> 00:28:06,119
down to physics you know we think of

657
00:28:11,579 --> 00:28:09,039
well they can't get they can't get here

658
00:28:13,769 --> 00:28:11,589
from there because it's it is extremely

659
00:28:15,880 --> 00:28:13,779
vast I mean it's you can't even

660
00:28:18,610 --> 00:28:15,890
comprehend the vastness of

661
00:28:20,919 --> 00:28:18,620
one star to another and all that so I

662
00:28:23,080 --> 00:28:20,929
understand that but I also understand

663
00:28:25,810 --> 00:28:23,090

that we are we are thinking in human

664

00:28:27,970 --> 00:28:25,820

terms we're thinking of terms of what we

665

00:28:29,890 --> 00:28:27,980

know and and we don't know if everything

666

00:28:33,250 --> 00:28:29,900

has been thought of in physics it's most

667

00:28:35,919 --> 00:28:33,260

likely not so what are your what were

668

00:28:39,340 --> 00:28:35,929

your thoughts that kind of led you on

669

00:28:43,720 --> 00:28:39,350

the path of possible time travel instead

670

00:28:45,789 --> 00:28:43,730

of visitors well I think you're

671

00:28:49,930 --> 00:28:45,799

absolutely right and humans have a

672

00:28:51,760 --> 00:28:49,940

tremendous knack for anthropomorphizing

673

00:28:54,190 --> 00:28:51,770

things and ascribing human

674

00:28:56,110 --> 00:28:54,200

characteristics or I mean it's really

675

00:28:57,789 --> 00:28:56,120

all we know we can't sit down with

676

00:28:59,980 --> 00:28:57,799

dolphins and and have these

677

00:29:01,990 --> 00:28:59,990

conversations about dolphin points of

678

00:29:04,419 --> 00:29:02,000

view or chimpanzee points of view we're

679

00:29:06,070 --> 00:29:04,429

kind of alone in our intellect at least

680

00:29:10,060 --> 00:29:06,080

with regard to these higher level

681

00:29:12,760 --> 00:29:10,070

cognition types of things but but for me

682

00:29:14,830 --> 00:29:12,770

personally the main thing was is the

683

00:29:18,580 --> 00:29:14,840

physiology the physical characteristics

684

00:29:20,830 --> 00:29:18,590

and looking at long term evolutionary

685

00:29:23,980 --> 00:29:20,840

changes in the hominid lineage and two

686

00:29:27,400 --> 00:29:23,990

of the main changes that characterize us

687

00:29:28,870 --> 00:29:27,410

as humans and hominins which is just us

688

00:29:31,630 --> 00:29:28,880

and our upright-walking

689

00:29:33,190 --> 00:29:31,640

ancestors going back to the split

690

00:29:35,049 --> 00:29:33,200

between us and eventually what became

691

00:29:36,940 --> 00:29:35,059

the chimpanzee which was about six to

692

00:29:39,510 --> 00:29:36,950

eight million years ago when we shared a

693

00:29:42,820 --> 00:29:39,520

common ancestor but the two main changes

694

00:29:45,820 --> 00:29:42,830

have to do with our brains increasing in

695

00:29:47,890 --> 00:29:45,830

size and expanding laterally from the

696

00:29:49,810 --> 00:29:47,900

inside out but also forward and coming

697

00:29:51,850 --> 00:29:49,820

out over top of our eyeballs and in fact

698

00:29:54,100 --> 00:29:51,860

we're the only mammal that has that

699

00:29:56,919 --> 00:29:54,110

craniofacial configuration in which our

700

00:29:59,260 --> 00:29:56,929

forebrain sits right on top of our i/o

701

00:30:01,240 --> 00:29:59,270

orbits and the trade-off there is that

702

00:30:03,150 --> 00:30:01,250

our faces have to get out of the way it

703

00:30:05,860 --> 00:30:03,160

would be like it'd be like putting a

704

00:30:07,960 --> 00:30:05,870

camper trailer on top of a Corvette and

705

00:30:10,570 --> 00:30:07,970

expecting that to work out logistically

706

00:30:12,280 --> 00:30:10,580

it's just and it's the same thing with

707

00:30:14,409 --> 00:30:12,290

with cranial facial morphology you can

708

00:30:16,650 --> 00:30:14,419

see it very clearly in dogs as an

709

00:30:20,590 --> 00:30:16,660

example a Doberman Pinscher collie

710

00:30:22,360 --> 00:30:20,600

versus a pug or a even a Rottweiler

711

00:30:25,600 --> 00:30:22,370

larger dogs that still have those

712

00:30:28,600 --> 00:30:25,610

retract faces and larger larger

713

00:30:30,450 --> 00:30:28,610

foreheads so over evolutionary time and

714

00:30:33,090 --> 00:30:30,460

especially more

715

00:30:35,250 --> 00:30:33,100

in recent human evolution the last

716

00:30:38,670 --> 00:30:35,260

800,000 years or so our brains have

717

00:30:40,860 --> 00:30:38,680

continued this increase in size but also

718

00:30:43,230 --> 00:30:40,870

a change in shape they've become what we

719

00:30:45,210 --> 00:30:43,240

as anthropologists call globular and

720

00:30:47,700 --> 00:30:45,220

increasing globular T where they become

721

00:30:49,950 --> 00:30:47,710

more rounded more balloon licker we

722

00:30:52,560 --> 00:30:49,960

become more bubble-headed essentially

723

00:30:54,720 --> 00:30:52,570

and our faces continue to get out of the

724

00:30:56,610 --> 00:30:54,730

way of this runaway brain and and it's

725

00:30:59,700 --> 00:30:56,620

it's not just that morphology but it's

726
00:31:02,640 --> 00:30:59,710
also given us this this evolution in our

727
00:31:04,830 --> 00:31:02,650
culture going back 3 3.3 million years

728
00:31:07,140 --> 00:31:04,840
ago with the advent of the first stone

729
00:31:09,210 --> 00:31:07,150
tools that set in motion this

730
00:31:11,520 --> 00:31:09,220
accelerating rate of change in our

731
00:31:14,370 --> 00:31:11,530
culture and technology as well and the

732
00:31:17,310 --> 00:31:14,380
phones that we have any sort of

733
00:31:20,100 --> 00:31:17,320
machinery computers all of it is the

734
00:31:22,500 --> 00:31:20,110
direct descendants of those first stone

735
00:31:26,040 --> 00:31:22,510
tools three million years ago so if we

736
00:31:28,230 --> 00:31:26,050
look at time and and and the sense of

737
00:31:31,560 --> 00:31:28,240
deep time and human evolution both

738
00:31:34,590 --> 00:31:31,570

culturally and biologically you can

739

00:31:36,660 --> 00:31:34,600

really see this this consistent pattern

740

00:31:39,690 --> 00:31:36,670

these tenacious trends both in our

741

00:31:42,720 --> 00:31:39,700

morphology and culture and projecting

742

00:31:44,910 --> 00:31:42,730

those forward you would get something

743

00:31:47,760 --> 00:31:44,920

that very much resembles the most

744

00:31:49,830 --> 00:31:47,770

commonly described alien form or what I

745

00:31:52,260 --> 00:31:49,840

refer to as an extra tempest trail in

746

00:31:56,790 --> 00:31:52,270

the book replacing tear the Latin root

747

00:31:59,880 --> 00:31:56,800

for earth with Tom the root for time so

748

00:32:02,220 --> 00:31:59,890

so even even without making claims or

749

00:32:03,900 --> 00:32:02,230

speculating about what might happen if

750

00:32:05,730 --> 00:32:03,910

we did blow ourselves up and there was

751

00:32:07,980 --> 00:32:05,740

nuclear war and we had to live in space

752

00:32:10,800 --> 00:32:07,990

or underground without even going down

753

00:32:12,900 --> 00:32:10,810

that speculative road just looking at

754

00:32:15,150 --> 00:32:12,910

the continuation of these same enduring

755

00:32:17,280 --> 00:32:15,160

trends throughout hominid evolution into

756

00:32:18,780 --> 00:32:17,290

the future you would expect to get

757

00:32:21,450 --> 00:32:18,790

something very similar to what's

758

00:32:24,660 --> 00:32:21,460

commonly described in these reports of

759

00:32:28,650 --> 00:32:24,670

Close Encounters Wow well I just found

760

00:32:30,690 --> 00:32:28,660

out that we are we are on break no cage

761

00:32:33,780 --> 00:32:30,700

here hey but that's okay where this is

762

00:32:35,550 --> 00:32:33,790

that was moot no no that's okay

763

00:32:37,550 --> 00:32:35,560

it's all gonna be on YouTube and on my

764

00:32:41,260 --> 00:32:37,560

podcast so it's all good it's all good

765

00:32:44,590 --> 00:32:41,270

so but we're going back in about

766

00:32:46,780 --> 00:32:44,600

a half a minute from now so we won't

767

00:32:48,430 --> 00:32:46,790

we'll just we'll just continue on with

768

00:32:50,020 --> 00:32:48,440

the conversation that's all we can do at

769

00:32:53,020 --> 00:32:50,030

this point because I I wasn't prepared

770

00:32:54,820 --> 00:32:53,030

for that so I'll try to work some of

771

00:32:56,560 --> 00:32:54,830

that back in at some points I do think

772

00:32:59,530 --> 00:32:56,570

it's important to understanding the

773

00:33:03,520 --> 00:32:59,540

argument yeah and and the the holistic

774

00:33:05,710 --> 00:33:03,530

aspects of the argument yeah okay so I'm

775

00:33:09,670 --> 00:33:05,720

just gonna break here for just a second

776

00:33:17,590 --> 00:33:09,680

race you want to con us back in race you

777

00:33:23,550 --> 00:33:17,600

there okay we're ready to go

778

00:33:26,500 --> 00:33:23,560

yeah we're ready five four three two all

779

00:33:30,370 --> 00:33:26,510

right welcome back my guest is dr.

780

00:33:35,500 --> 00:33:30,380

Michael masters and during the break we

781

00:33:38,170 --> 00:33:35,510

were talking about how the evolution is

782

00:33:40,930 --> 00:33:38,180

possible and can kind of just go since

783

00:33:43,450 --> 00:33:40,940

um since we didn't realize we were on a

784

00:33:45,070 --> 00:33:43,460

break here I want to repeat the same

785

00:33:46,600 --> 00:33:45,080

thing right over again but can you kind

786

00:33:48,490 --> 00:33:46,610

of give like a nutshell of what you were

787

00:33:51,040 --> 00:33:48,500

saying just so to catch the people up

788

00:33:54,310 --> 00:33:51,050

over there at kgr a radio yeah nope no

789

00:33:56,320 --> 00:33:54,320

problem and in in instructing and being

790

00:33:58,810 --> 00:33:56,330

a professor we have to give cliff notes

791

00:34:01,150 --> 00:33:58,820

versions of things all the time so yeah

792

00:34:03,370 --> 00:34:01,160

the bottom line is the after we stood up

793

00:34:05,650 --> 00:34:03,380

right after we became bipedal about six

794

00:34:08,380 --> 00:34:05,660

to eight million years ago one of the

795

00:34:09,850 --> 00:34:08,390

main changes that results from that and

796

00:34:11,740 --> 00:34:09,860

I actually didn't mention this in the

797

00:34:13,720 --> 00:34:11,750

break so it adds new content to what was

798

00:34:15,550 --> 00:34:13,730

just mentioned is that our heads have to

799

00:34:18,550 --> 00:34:15,560

rotate down in order to see where we're

800

00:34:20,050 --> 00:34:18,560

going our heads have to come forward to

801
00:34:22,660 --> 00:34:20,060
keep our eyes in line with the horizon

802
00:34:25,420 --> 00:34:22,670
and quadrupedal animals don't have that

803
00:34:27,400 --> 00:34:25,430
requirement hmm so we stood upright our

804
00:34:29,740 --> 00:34:27,410
heads rotate it down and that created a

805
00:34:31,570 --> 00:34:29,750
flexing of our cranial base so the

806
00:34:33,820 --> 00:34:31,580
anterior cranial base that area where

807
00:34:36,520 --> 00:34:33,830
the forebrain sits right on top of the

808
00:34:38,740 --> 00:34:36,530
eye orbits came down and the foramen

809
00:34:40,450 --> 00:34:38,750
magnum the big hole where our spinal

810
00:34:42,730 --> 00:34:40,460
cord passes to connect with our brain

811
00:34:44,740 --> 00:34:42,740
rotated downward and forward in

812
00:34:46,870 --> 00:34:44,750
association with their heads rotating

813
00:34:49,930 --> 00:34:46,880

down and that really more than anything

814

00:34:51,610 --> 00:34:49,940

else is a big part of why we grew such

815

00:34:53,230 --> 00:34:51,620

large brains in the first place that

816

00:34:55,180 --> 00:34:53,240

created what's called cranial flexing

817

00:34:57,099 --> 00:34:55,190

you can think of bending two ends of a

818

00:34:59,530 --> 00:34:57,109

slinky down toward each other it creates

819

00:35:01,180 --> 00:34:59,540

this bowing on the top and this more

820

00:35:03,130 --> 00:35:01,190

bulbous characteristic that is

821

00:35:06,460 --> 00:35:03,140

essentially what our brains look like so

822

00:35:08,829 --> 00:35:06,470

beyond any of the other changes that

823

00:35:10,930 --> 00:35:08,839

took place in hominid evolution really

824

00:35:12,760 --> 00:35:10,940

just standing upright was a big catalyst

825

00:35:15,130 --> 00:35:12,770

for the development of these larger

826

00:35:16,990 --> 00:35:15,140

brains more retracted faces more

827

00:35:19,240 --> 00:35:17,000

intelligence you certainly have to add

828

00:35:21,609 --> 00:35:19,250

to that the free use of our hands we're

829

00:35:23,380 --> 00:35:21,619

not using our our arms and our hands to

830

00:35:25,359 --> 00:35:23,390

walk around anymore rather we can use

831

00:35:27,910 --> 00:35:25,369

them to make tools and and to

832

00:35:29,829 --> 00:35:27,920

communicate and to do things that we

833

00:35:32,309 --> 00:35:29,839

couldn't do if they're burdened with

834

00:35:34,780 --> 00:35:32,319

locomotion so really standing upright

835

00:35:37,569 --> 00:35:34,790

set in motion a number of important

836

00:35:41,380 --> 00:35:37,579

changes that really contributed to the

837

00:35:43,359 --> 00:35:41,390

uniqueness of modern humans and a lot of

838

00:35:45,940 --> 00:35:43,369

the unique traits of our ancestors as

839

00:35:48,250 --> 00:35:45,950

well now I know I understand I've read

840

00:35:50,530 --> 00:35:48,260

quite a bit just from my own interest

841

00:35:52,660 --> 00:35:50,540

and you know Neanderthals and now

842

00:35:53,980 --> 00:35:52,670

they're you know with recent discoveries

843

00:35:55,960 --> 00:35:53,990

they they believed that they were

844

00:35:59,710 --> 00:35:55,970

actually cooking with fire which is

845

00:36:02,530 --> 00:35:59,720

pretty amazing and oh not it echoes way

846

00:36:05,109 --> 00:36:02,540

back at 1.8 million years ago you see

847

00:36:07,950 --> 00:36:05,119

the first step and then although erectus

848

00:36:11,079 --> 00:36:07,960

oh wow and that also adds to

849

00:36:12,880 --> 00:36:11,089

intelligence too right absolutely yeah

850

00:36:15,099 --> 00:36:12,890

and and the trade-off I was mentioning

851
00:36:17,410 --> 00:36:15,109
between our brain size and our facial

852
00:36:19,569 --> 00:36:17,420
size our face had to get out of the way

853
00:36:23,380 --> 00:36:19,579
of our expanding brains and by cooking

854
00:36:25,540 --> 00:36:23,390
our food it it it helped with a number

855
00:36:27,640 --> 00:36:25,550
of things that made the food safer to

856
00:36:30,339 --> 00:36:27,650
eat it cooked off bacteria and parasites

857
00:36:32,500 --> 00:36:30,349
and viruses and things but it also

858
00:36:35,380 --> 00:36:32,510
reduced selective pressure to maintain

859
00:36:37,809 --> 00:36:35,390
big teeth and a big chewing apparatus or

860
00:36:41,050 --> 00:36:37,819
mastication masticatory muscles as we

861
00:36:44,680 --> 00:36:41,060
call them so so it allowed a reduction

862
00:36:46,540 --> 00:36:44,690
in the face because of culture that that

863
00:36:48,400 --> 00:36:46,550

allowed the brain to continue expanding

864

00:36:50,589 --> 00:36:48,410

and that's why in anthropology we talk

865

00:36:51,849 --> 00:36:50,599

about bio cultural evolution we can't

866

00:36:54,370 --> 00:36:51,859

really separate those there's many

867

00:36:56,589 --> 00:36:54,380

things about our physiology that there

868

00:36:58,510 --> 00:36:56,599

that are the direct result of our

869

00:37:00,940 --> 00:36:58,520

culture and many things in our culture

870

00:37:03,069 --> 00:37:00,950

that are influenced by our biology so we

871

00:37:05,530 --> 00:37:03,079

really look at them as the synergy this

872

00:37:08,290 --> 00:37:05,540

relationship that's that's inseparable

873

00:37:09,130 --> 00:37:08,300

and looking at the the long history of

874

00:37:14,410 --> 00:37:09,140

human evolution

875

00:37:16,480 --> 00:37:14,420

on this planet well modern humans now

876

00:37:18,880 --> 00:37:16,490

that's always baffled me because you

877

00:37:21,009 --> 00:37:18,890

know they say modern humans have doesn't

878

00:37:24,279 --> 00:37:21,019

it appear that they've been around that

879

00:37:27,099 --> 00:37:24,289

long and as far as it's in the hundreds

880

00:37:31,000 --> 00:37:27,109

of thousands of years and it's it's just

881

00:37:33,849 --> 00:37:31,010

baffling to me where do you where do you

882

00:37:35,470 --> 00:37:33,859

I think I read somewhere in some of your

883

00:37:37,000 --> 00:37:35,480

literature or whatever there's no such

884

00:37:39,400 --> 00:37:37,010

thing as a missing link anymore

885

00:37:41,019 --> 00:37:39,410

so do you want to you want to tackle

886

00:37:41,529 --> 00:37:41,029

that a little you know talk about that a

887

00:37:44,319 --> 00:37:41,539

little bit

888

00:37:46,589 --> 00:37:44,329

yeah if somebody says something about a

889

00:37:50,620 --> 00:37:46,599

missing link that's an instant red flag

890

00:37:54,250 --> 00:37:50,630

that it's sort of an archaic idea mostly

891

00:37:55,599 --> 00:37:54,260

an attempt to refute evolutionary change

892

00:37:57,430 --> 00:37:55,609

or human evolutionary change

893

00:38:00,720 --> 00:37:57,440

specifically but no at this point we

894

00:38:03,700 --> 00:38:00,730

have a very very good understanding of

895

00:38:05,349 --> 00:38:03,710

our evolutionary history as I mentioned

896

00:38:07,059 --> 00:38:05,359

going back to that time when we first

897

00:38:08,890 --> 00:38:07,069

started walking upright about six to

898

00:38:11,920 --> 00:38:08,900

eight million years ago and a big part

899

00:38:14,529 --> 00:38:11,930

of my research is looking at those

900

00:38:16,359 --> 00:38:14,539

evolutionary changes and there are

901
00:38:19,749 --> 00:38:16,369
places where there's not as much

902
00:38:22,480 --> 00:38:19,759
information beginning with our own genus

903
00:38:24,759 --> 00:38:22,490
Homo habilis is one of the best examples

904
00:38:26,589 --> 00:38:24,769
we have a number of skulls and bones and

905
00:38:27,849 --> 00:38:26,599
there were some of the first used stone

906
00:38:30,549 --> 00:38:27,859
tools so we have a lot of information

907
00:38:32,980 --> 00:38:30,559
but it's all relative but there is no

908
00:38:35,289 --> 00:38:32,990
point that we just don't know what was

909
00:38:38,319 --> 00:38:35,299
going on and and I think a big part of

910
00:38:41,950 --> 00:38:38,329
that comes down to for some people it's

911
00:38:44,319 --> 00:38:41,960
a desire to not understand it or to try

912
00:38:46,779 --> 00:38:44,329
to find some reason to criticize it even

913
00:38:48,789 --> 00:38:46,789

though that's it's an outdated idea but

914

00:38:51,849 --> 00:38:48,799

it's also that that there's a disconnect

915

00:38:53,559 --> 00:38:51,859

between what we do as scientists and

916

00:38:55,779 --> 00:38:53,569

where we publish and then what is

917

00:38:58,029 --> 00:38:55,789

released in more mainstream media

918

00:39:00,670 --> 00:38:58,039

outlets and that's just an aspect of

919

00:39:03,700 --> 00:39:00,680

science in general that we write for

920

00:39:05,529 --> 00:39:03,710

each other the vast majority of time in

921

00:39:07,829 --> 00:39:05,539

order to communicate new things new

922

00:39:10,450 --> 00:39:07,839

discoveries to have really detailed

923

00:39:11,799 --> 00:39:10,460

arguments about the morphology of this

924

00:39:13,269 --> 00:39:11,809

hominin and how it fits in with these

925

00:39:15,370 --> 00:39:13,279

other ones and should it be a different

926
00:39:17,859 --> 00:39:15,380
species or classified as the same

927
00:39:19,720 --> 00:39:17,869
species but the general public is left

928
00:39:21,839 --> 00:39:19,730
out of that conversation because it's

929
00:39:22,900 --> 00:39:21,849
very esoteric and it's it's complicated

930
00:39:25,210 --> 00:39:22,910
speed

931
00:39:27,430 --> 00:39:25,220
but but you do have stories come out

932
00:39:29,980 --> 00:39:27,440
there's big fines and and one thing I

933
00:39:32,650 --> 00:39:29,990
try to do with this book is is to really

934
00:39:35,470 --> 00:39:32,660
explain things in understandable terms

935
00:39:40,630 --> 00:39:35,480
and and to present not just an argument

936
00:39:43,299 --> 00:39:40,640
about what or who rather these aliens

937
00:39:45,430 --> 00:39:43,309
might be these extraterrestrials but

938
00:39:47,859 --> 00:39:45,440

also to really give people a deep

939

00:39:49,569 --> 00:39:47,869

understanding of human origins and of

940

00:39:52,240 --> 00:39:49,579

human evolution and of cultural

941

00:39:54,730 --> 00:39:52,250

evolution and what things really got us

942

00:39:56,109 --> 00:39:54,740

to where we are today and and tie it

943

00:39:58,029 --> 00:39:56,119

into all of this but it would be

944

00:40:00,700 --> 00:39:58,039

impossible to read this book I think and

945

00:40:04,359 --> 00:40:00,710

to walk away without a much deeper

946

00:40:06,099 --> 00:40:04,369

knowledge of anthropology astrobiology

947

00:40:09,279 --> 00:40:06,109

astronomy and physics because I really

948

00:40:12,400 --> 00:40:09,289

try to to do a science communication

949

00:40:15,430 --> 00:40:12,410

thing and really could convey in real

950

00:40:16,960 --> 00:40:15,440

understandable terms what we can learn

951
00:40:19,480 --> 00:40:16,970
from each of these fields and how it

952
00:40:22,150 --> 00:40:19,490
applies to this UFO phenomenon hmm

953
00:40:23,950 --> 00:40:22,160
I remember reading something in a

954
00:40:26,140 --> 00:40:23,960
dentist office I was something an

955
00:40:28,329 --> 00:40:26,150
article I I forget what magazine it was

956
00:40:30,970 --> 00:40:28,339
in but it was saying that you know they

957
00:40:32,380 --> 00:40:30,980
think within you know I forget about a

958
00:40:35,589 --> 00:40:32,390
thousand years or something like that

959
00:40:37,660 --> 00:40:35,599
that most people will have more of a

960
00:40:40,329 --> 00:40:37,670
darker complexion and you know dark hair

961
00:40:43,420 --> 00:40:40,339
and all that what what would be the

962
00:40:45,789 --> 00:40:43,430
basis of you know I don't know if you've

963
00:40:49,029 --> 00:40:45,799

ever heard that as well but what would

964

00:40:51,609 --> 00:40:49,039

be the basis for thoughts of that I mean

965

00:40:54,700 --> 00:40:51,619

how can someone judge where we're

966

00:40:58,170 --> 00:40:54,710

heading or is it just by the subtle

967

00:41:00,940 --> 00:40:58,180

things that have repeated in the past

968

00:41:03,309 --> 00:41:00,950

yeah that's that's a sticky wicket

969

00:41:05,980 --> 00:41:03,319

really I I try to stay away from those

970

00:41:07,450 --> 00:41:05,990

types of conjectures in my own research

971

00:41:09,880 --> 00:41:07,460

because there really is no way to know

972

00:41:13,349 --> 00:41:09,890

it so many little things like that

973

00:41:15,849 --> 00:41:13,359

especially stature height weight

974

00:41:17,710 --> 00:41:15,859

different characteristics that are

975

00:41:19,930 --> 00:41:17,720

already so variable among humans like

976

00:41:21,819 --> 00:41:19,940

skin color and that have a long

977

00:41:24,339 --> 00:41:21,829

evolutionary history associated with

978

00:41:27,370 --> 00:41:24,349

them those tend to also respond to

979

00:41:28,900 --> 00:41:27,380

environmental variables and without

980

00:41:30,730 --> 00:41:28,910

knowing what those environmental

981

00:41:33,339 --> 00:41:30,740

variables are going to be in the

982

00:41:36,930 --> 00:41:33,349

proximate or distant future it's much

983

00:41:38,880 --> 00:41:36,940

harder to say what those traits would be

984

00:41:40,950 --> 00:41:38,890

would look like I touch on them a little

985

00:41:43,170 --> 00:41:40,960

bit in the book in the context of

986

00:41:46,710 --> 00:41:43,180

current cultural trends there is a

987

00:41:48,210 --> 00:41:46,720

tendency to whitewash a lot of people

988

00:41:50,010 --> 00:41:48,220

with darker skin try to lighten their

989

00:41:52,020 --> 00:41:50,020

skin but at the same time a lot of

990

00:41:53,580 --> 00:41:52,030

people with light skin spend a lot of

991

00:41:55,350 --> 00:41:53,590

money and a lot of time and put

992

00:41:57,510 --> 00:41:55,360

themselves at risk for skin cancer and

993

00:41:59,520 --> 00:41:57,520

trying to darken their skin too so

994

00:42:01,590 --> 00:41:59,530

there's a number of things that play

995

00:42:04,770 --> 00:42:01,600

into that issue of skin color

996

00:42:07,530 --> 00:42:04,780

I do talk a little bit about the self

997

00:42:10,650 --> 00:42:07,540

domestication process and one of the

998

00:42:13,470 --> 00:42:10,660

things that happens as we domesticate

999

00:42:14,940 --> 00:42:13,480

other animals and and as we domesticate

1000

00:42:16,500 --> 00:42:14,950

ourselves because beginning with

1001
00:42:19,140 --> 00:42:16,510
agriculture we've started domesticating

1002
00:42:21,930 --> 00:42:19,150
ourselves as well is that you have a

1003
00:42:23,850 --> 00:42:21,940
reduction in pigmentation and so in

1004
00:42:26,520 --> 00:42:23,860
looking at this commonly reported

1005
00:42:29,070 --> 00:42:26,530
characteristic and close encounters

1006
00:42:31,710 --> 00:42:29,080
where the bean was actually seen or an

1007
00:42:33,750 --> 00:42:31,720
individual was abducted they often

1008
00:42:36,210 --> 00:42:33,760
report a sort of grayish looking skin

1009
00:42:38,970 --> 00:42:36,220
and that that doesn't exist in humans we

1010
00:42:40,590 --> 00:42:38,980
don't have gray skin we have brown skin

1011
00:42:42,090 --> 00:42:40,600
and black skin and white skin and

1012
00:42:44,460 --> 00:42:42,100
everything in between and if you did

1013
00:42:47,550 --> 00:42:44,470

average out the skin tone of the whole

1014

00:42:49,080 --> 00:42:47,560

human population it would sort of be a

1015

00:42:50,640 --> 00:42:49,090

brownish color and that could

1016

00:42:52,920 --> 00:42:50,650

potentially be what they were talking

1017

00:42:55,410 --> 00:42:52,930

about and that article is more of an

1018

00:42:58,260 --> 00:42:55,420

averaging or homogeneous Asian of these

1019

00:43:02,070 --> 00:42:58,270

genes that code for skin color but but

1020

00:43:05,540 --> 00:43:02,080

even outside of that and domesticated

1021

00:43:08,510 --> 00:43:05,550

ourselves we may start to just reduce

1022

00:43:11,460 --> 00:43:08,520

pigmentation in general which over time

1023

00:43:14,130 --> 00:43:11,470

could potentially result and and those

1024

00:43:16,680 --> 00:43:14,140

characteristics of a greyish color skin

1025

00:43:19,320 --> 00:43:16,690

without all of the melanocytes firing

1026
00:43:21,690 --> 00:43:19,330
off melanin and creating the brown skin

1027
00:43:25,020 --> 00:43:21,700
color just a sort of a pale grayish

1028
00:43:27,270 --> 00:43:25,030
color that lacks pigmentation but but

1029
00:43:30,450 --> 00:43:27,280
again that's that's rooted in and things

1030
00:43:32,400 --> 00:43:30,460
we've already shown experimentally with

1031
00:43:34,500 --> 00:43:32,410
other animals so there's a little bit

1032
00:43:37,830 --> 00:43:34,510
more of a basis for arguments like that

1033
00:43:40,560 --> 00:43:37,840
rather than saying that that will will

1034
00:43:42,690 --> 00:43:40,570
have more sun or less ozone we can't

1035
00:43:44,130 --> 00:43:42,700
know those things for sure so I do try

1036
00:43:47,370 --> 00:43:44,140
to stay away from those as much as

1037
00:43:48,860 --> 00:43:47,380
possible in my own research now number

1038
00:43:50,190 --> 00:43:48,870

of things I've thought of over the years

1039

00:43:52,800 --> 00:43:50,200

or whatever

1040

00:43:55,800 --> 00:43:52,810

you know if we're we're a rare solar

1041

00:43:58,740 --> 00:43:55,810

system or we only have one son you know

1042

00:44:01,110 --> 00:43:58,750

most a lot of solar systems have you

1043

00:44:03,420 --> 00:44:01,120

know more than one son yeah there's all

1044

00:44:07,710 --> 00:44:03,430

these different things that play into

1045

00:44:10,890 --> 00:44:07,720

with how we evolved and so it's it's

1046

00:44:14,580 --> 00:44:10,900

always been curious to me to wonder how

1047

00:44:18,150 --> 00:44:14,590

something could evolve on another planet

1048

00:44:21,150 --> 00:44:18,160

the variables of oxygen or breathable

1049

00:44:23,960 --> 00:44:21,160

air or whatever it is they can learn to

1050

00:44:26,880 --> 00:44:23,970

breathe the weight of the planet gravity

1051

00:44:28,830 --> 00:44:26,890

and that's a major part in the

1052

00:44:30,660 --> 00:44:28,840

development of something something as

1053

00:44:32,910 --> 00:44:30,670

simple as a moon or not having a moon

1054

00:44:36,240 --> 00:44:32,920

with the tides and things like that are

1055

00:44:41,880 --> 00:44:36,250

all all stepping stones with to how we

1056

00:44:45,030 --> 00:44:41,890

got here and so is that just some of the

1057

00:44:46,790 --> 00:44:45,040

variables on an evolution and how we you

1058

00:44:49,200 --> 00:44:46,800

know crawled out of the water basically

1059

00:44:52,560 --> 00:44:49,210

yeah but those are certainly important

1060

00:44:55,980 --> 00:44:52,570

ones a binary star system would really

1061

00:44:57,920 --> 00:44:55,990

complicate the formation of life in

1062

00:45:01,530 --> 00:44:57,930

different ways it can certainly happen

1063

00:45:03,150 --> 00:45:01,540

but its evolutionary trajectory would

1064

00:45:05,130 --> 00:45:03,160

certainly be very different than our own

1065

00:45:07,710 --> 00:45:05,140

and and yeah you're right the chemistry

1066

00:45:10,020 --> 00:45:07,720

the climate the distance from the Sun

1067

00:45:12,930 --> 00:45:10,030

the amount of water the amount of ice

1068

00:45:14,280 --> 00:45:12,940

moon all of those things are important

1069

00:45:15,810 --> 00:45:14,290

I'm really glad you mentioned gravity

1070

00:45:19,830 --> 00:45:15,820

too because that's one that I talk about

1071

00:45:22,770 --> 00:45:19,840

a lot in the book is we we suffer a lot

1072

00:45:25,020 --> 00:45:22,780

of maladies associated with our upright

1073

00:45:27,750 --> 00:45:25,030

form of walking bipedal locomotion as we

1074

00:45:28,500 --> 00:45:27,760

call it and we're one of a few mammals

1075

00:45:30,900 --> 00:45:28,510

that does it

1076
00:45:33,180 --> 00:45:30,910
habitually most animals are quadrupedal

1077
00:45:35,670 --> 00:45:33,190
walking on all four so the fact that we

1078
00:45:38,270 --> 00:45:35,680
have things like like herniated discs

1079
00:45:41,430 --> 00:45:38,280
fractured discs blown out knees

1080
00:45:44,630 --> 00:45:41,440
hemorrhoids hernias just all kinds of

1081
00:45:46,980 --> 00:45:44,640
problems with our knees ankles hips

1082
00:45:49,170 --> 00:45:46,990
broken hips and older age with

1083
00:45:53,250 --> 00:45:49,180
osteoporosis all of these things

1084
00:45:56,820 --> 00:45:53,260
indicate that we are at the upper limit

1085
00:45:59,130 --> 00:45:56,830
of what a planet might be able to

1086
00:46:01,530 --> 00:45:59,140
sustain with regard to bipedalism and

1087
00:46:03,300 --> 00:46:01,540
and we're only at 9.8 meters per second

1088
00:46:04,140 --> 00:46:03,310

squared and an argument I make in the

1089

00:46:05,880 --> 00:46:04,150

book is that

1090

00:46:08,940 --> 00:46:05,890

most of the planets that have been found

1091

00:46:10,859 --> 00:46:08,950

as part of the Kepler mission are far

1092

00:46:14,640 --> 00:46:10,869

heavier than Earth I think only about

1093

00:46:17,299 --> 00:46:14,650

2.2 2.7 I forget the exact number but

1094

00:46:20,250 --> 00:46:17,309

somewhere under 3 percent of them are

1095

00:46:23,220 --> 00:46:20,260

much larger than Earth which would

1096

00:46:26,609 --> 00:46:23,230

really make it prohibitive for an

1097

00:46:28,529 --> 00:46:26,619

upright walking humanoid form to evolve

1098

00:46:31,710 --> 00:46:28,539

and a big part of what I was talking

1099

00:46:32,880 --> 00:46:31,720

about earlier but for Darien it gets a

1100

00:46:35,819 --> 00:46:32,890

little bit after the break

1101
00:46:38,700 --> 00:46:35,829
is that bipedalism was so important for

1102
00:46:40,079 --> 00:46:38,710
us becoming what we are today having the

1103
00:46:42,870 --> 00:46:40,089
ability to sit down and have these

1104
00:46:46,019 --> 00:46:42,880
conversations in different parts of the

1105
00:46:48,150 --> 00:46:46,029
country I can't see you you can't see me

1106
00:46:50,910 --> 00:46:48,160
I guess we can through Skype which also

1107
00:46:52,500 --> 00:46:50,920
is a testament to our success but but we

1108
00:46:55,950 --> 00:46:52,510
have all of these technologies and these

1109
00:46:59,099 --> 00:46:55,960
abilities that really are either

1110
00:47:01,529 --> 00:46:59,109
directly or indirectly the result of our

1111
00:47:04,980 --> 00:47:01,539
bipedalism so so in looking at all of

1112
00:47:07,950 --> 00:47:04,990
this this variability in size across

1113
00:47:09,539 --> 00:47:07,960

these different planets even taking out

1114

00:47:12,420 --> 00:47:09,549

of the equation the chemistry and the

1115

00:47:15,240 --> 00:47:12,430

climate and the binary or you know you

1116

00:47:17,700 --> 00:47:15,250

know one star systems we still aren't

1117

00:47:19,440 --> 00:47:17,710

likely to have bipedalism on those

1118

00:47:22,740 --> 00:47:19,450

planets and we aren't likely to have

1119

00:47:27,049 --> 00:47:22,750

this humanoid form so so even looking at

1120

00:47:30,289 --> 00:47:27,059

the other reports of mantis men and

1121

00:47:33,539 --> 00:47:30,299

insects like humanoids and reptilians

1122

00:47:35,640 --> 00:47:33,549

there they're still almost universally

1123

00:47:37,589 --> 00:47:35,650

universally described as being bipedal

1124

00:47:39,779 --> 00:47:37,599

and and that's just not something you

1125

00:47:43,250 --> 00:47:39,789

would expect to see based on the current

1126
00:47:45,890 --> 00:47:43,260
data coming out of of the Kepler mission

1127
00:47:48,690 --> 00:47:45,900
interesting never would think of that

1128
00:47:50,609 --> 00:47:48,700
and I know we're going to get into all

1129
00:47:53,640 --> 00:47:50,619
of that topic we're coming up in about

1130
00:47:57,839 --> 00:47:53,650
seven minutes on the next break and so

1131
00:48:00,480 --> 00:47:57,849
is evolution I mean that this has always

1132
00:48:03,299 --> 00:48:00,490
been kind of fascinating to me it's very

1133
00:48:06,269 --> 00:48:03,309
very slow it seems to be very very slow

1134
00:48:09,960 --> 00:48:06,279
I know you know if it done they've done

1135
00:48:11,190 --> 00:48:09,970
studies and like the Galapagos Islands

1136
00:48:14,849 --> 00:48:11,200
the different islands the same bird

1137
00:48:16,200 --> 00:48:14,859
changed with a lot of it had to do with

1138
00:48:20,970 --> 00:48:16,210

the food and and

1139

00:48:24,359 --> 00:48:20,980

and all that but how slow is first of

1140

00:48:28,109 --> 00:48:24,369

all is part of evolution can part of

1141

00:48:30,690 --> 00:48:28,119

evolution be a freak of nature like you

1142

00:48:34,010 --> 00:48:30,700

know someone that is all of a sudden

1143

00:48:36,630 --> 00:48:34,020

born differently and then they you know

1144

00:48:37,950 --> 00:48:36,640

proceed to have children and that that

1145

00:48:41,190 --> 00:48:37,960

change happens like that or is it just

1146

00:48:43,740 --> 00:48:41,200

very very always known to be extremely

1147

00:48:45,839 --> 00:48:43,750

slow and very subtle how does that work

1148

00:48:49,380 --> 00:48:45,849

well it really depends on the

1149

00:48:51,510 --> 00:48:49,390

reproductive time of the organism so one

1150

00:48:53,970 --> 00:48:51,520

of the reasons why we're constantly

1151
00:48:56,700 --> 00:48:53,980
having to develop new drugs to combat

1152
00:48:58,589 --> 00:48:56,710
diseases that we've evolved with over

1153
00:49:01,500 --> 00:48:58,599
many millennia is because they evolved

1154
00:49:04,020 --> 00:49:01,510
much faster than we do so if you have

1155
00:49:06,000 --> 00:49:04,030
for instance influenza is a good example

1156
00:49:08,609 --> 00:49:06,010
because each year we have to identify

1157
00:49:10,589 --> 00:49:08,619
which strain of influenza is going to be

1158
00:49:12,870 --> 00:49:10,599
the dominant one sometimes they get it

1159
00:49:14,609 --> 00:49:12,880
wrong as it turns out and then we have a

1160
00:49:17,550 --> 00:49:14,619
different strain and the vaccine is

1161
00:49:19,140 --> 00:49:17,560
completely useless but well what we

1162
00:49:21,630 --> 00:49:19,150
would the reason we have to do that is

1163
00:49:23,250 --> 00:49:21,640

because it's constantly evolving it's

1164

00:49:26,609 --> 00:49:23,260

evolving very very quickly because

1165

00:49:30,329 --> 00:49:26,619

viruses evolve very rapidly you take a

1166

00:49:33,180 --> 00:49:30,339

petri dish and subjects bacteria to

1167

00:49:37,859 --> 00:49:33,190

these strong environmental conditions

1168

00:49:39,329 --> 00:49:37,869

you add radiation or a lot of solvents

1169

00:49:42,540 --> 00:49:39,339

and and they're going to evolve very

1170

00:49:44,490 --> 00:49:42,550

quickly we've created many really

1171

00:49:48,660 --> 00:49:44,500

interesting forms of Drosophila fruit

1172

00:49:50,849 --> 00:49:48,670

flies a lot of our early genetics data

1173

00:49:52,560 --> 00:49:50,859

and an understanding of the double helix

1174

00:49:54,690 --> 00:49:52,570

came from research that was done with

1175

00:49:56,089 --> 00:49:54,700

these fruit flies and the main reason is

1176

00:49:58,320 --> 00:49:56,099

because they have a very rapid

1177

00:50:00,390 --> 00:49:58,330

reproductive cycle they don't live very

1178

00:50:02,280 --> 00:50:00,400

long they reproduce I think it's just a

1179

00:50:04,800 --> 00:50:02,290

couple of days or something like that so

1180

00:50:09,630 --> 00:50:04,810

those organisms evolve very quickly us

1181

00:50:12,630 --> 00:50:09,640

with with it taking until puberty age

1182

00:50:14,790 --> 00:50:12,640

1213 and in modern times we typically

1183

00:50:17,160 --> 00:50:14,800

wait even longer to reproduce it is a

1184

00:50:20,250 --> 00:50:17,170

much slower process as seen by us

1185

00:50:22,410 --> 00:50:20,260

obviously you know if you asked a sloth

1186

00:50:24,480 --> 00:50:22,420

or a tortoise they'd probably think we

1187

00:50:26,040 --> 00:50:24,490

look like the Drosophila and if you

1188

00:50:28,170 --> 00:50:26,050

asked her softly they think it was

1189

00:50:30,030 --> 00:50:28,180

incredibly slow and they'd be dead

1190

00:50:31,920 --> 00:50:30,040

before they even finished that thought

1191

00:50:33,810 --> 00:50:31,930

because they are born and died so

1192

00:50:35,820 --> 00:50:33,820

quickly but but it really just comes

1193

00:50:37,850 --> 00:50:35,830

down to the organism and also the

1194

00:50:41,670 --> 00:50:37,860

environment like I mentioned if you were

1195

00:50:44,580 --> 00:50:41,680

subjecting those organisms to a very

1196

00:50:47,100 --> 00:50:44,590

strong selective pressure they're going

1197

00:50:49,020 --> 00:50:47,110

to evolve very quickly so it's both both

1198

00:50:53,010 --> 00:50:49,030

of those things and yeah as you point

1199

00:50:55,310 --> 00:50:53,020

out those freaks of nature mostly result

1200

00:50:59,700 --> 00:50:55,320

from mutations and if there's a mutation

1201
00:51:01,560 --> 00:50:59,710
that's beneficial and that individual is

1202
00:51:02,880 --> 00:51:01,570
able to make more babies relative to

1203
00:51:04,710 --> 00:51:02,890
other individuals that don't have that

1204
00:51:06,480 --> 00:51:04,720
mutation and then there are offspring

1205
00:51:08,220 --> 00:51:06,490
also have it and they make more babies

1206
00:51:09,510 --> 00:51:08,230
you're very quickly going to see that

1207
00:51:12,810 --> 00:51:09,520
trait spread throughout the population

1208
00:51:14,940 --> 00:51:12,820
and over subsequent generations if that

1209
00:51:16,980 --> 00:51:14,950
traits a negative characteristic and

1210
00:51:19,500 --> 00:51:16,990
especially if it kills that individual

1211
00:51:21,900 --> 00:51:19,510
before reproductive age it's not going

1212
00:51:24,090 --> 00:51:21,910
to show up anywhere it dies with that

1213
00:51:25,890 --> 00:51:24,100

individual so yeah those freaks of

1214

00:51:27,720 --> 00:51:25,900

nature those random things that happen

1215

00:51:29,130 --> 00:51:27,730

are really an important part of

1216

00:51:32,040 --> 00:51:29,140

evolution and understanding the

1217

00:51:34,290 --> 00:51:32,050

evolutionary process mm-hmm now I know

1218

00:51:37,350 --> 00:51:34,300

that you know the life spans have

1219

00:51:39,150 --> 00:51:37,360

changed dramatically you know even over

1220

00:51:42,570 --> 00:51:39,160

the last four or four hundred years you

1221

00:51:45,750 --> 00:51:42,580

know I mean you think of the 30s were

1222

00:51:48,660 --> 00:51:45,760

the average age of a you know due to all

1223

00:51:51,900 --> 00:51:48,670

different types of reasons and so and

1224

00:51:54,720 --> 00:51:51,910

like you said you know the children were

1225

00:51:57,300 --> 00:51:54,730

I mean basically there were there was

1226

00:52:01,380 --> 00:51:57,310

childbirth at you know 14 12 and you

1227

00:52:05,880 --> 00:52:01,390

know all the way so but other than I

1228

00:52:09,540 --> 00:52:05,890

know that you know like I've seen armor

1229

00:52:11,580 --> 00:52:09,550

from knights from you know the 1500s and

1230

00:52:15,060 --> 00:52:11,590

Middle Ages or whatever and they're very

1231

00:52:17,790 --> 00:52:15,070

small you know I mean very short and for

1232

00:52:20,130 --> 00:52:17,800

the most part but other than height and

1233

00:52:23,100 --> 00:52:20,140

things like that have we been able to

1234

00:52:24,860 --> 00:52:23,110

record in human you know recorded human

1235

00:52:29,640 --> 00:52:24,870

history any type of changes in

1236

00:52:30,270 --> 00:52:29,650

development of our species well yeah

1237

00:52:32,160 --> 00:52:30,280

absolutely

1238

00:52:34,590 --> 00:52:32,170

I know we're coming up on a break so

1239

00:52:37,710 --> 00:52:34,600

okay you put pretty short but but yeah

1240

00:52:40,050 --> 00:52:37,720

you're right Heights diachronic thing

1241

00:52:41,700 --> 00:52:40,060

and you can easily see whenever there's

1242

00:52:43,200 --> 00:52:41,710

at one of the first studies I worked on

1243

00:52:43,800 --> 00:52:43,210

in grad school looked at this whenever

1244

00:52:46,500 --> 00:52:43,810

you ever

1245

00:52:48,690 --> 00:52:46,510

session or a depression or a war height

1246

00:52:50,790 --> 00:52:48,700

drops tremendously and it starts to come

1247

00:52:52,260 --> 00:52:50,800

back up ya know it's very it's one of

1248

00:52:54,810 --> 00:52:52,270

the main variables we use in bio

1249

00:52:57,600 --> 00:52:54,820

archaeological analyses when we dig up

1250

00:52:59,670 --> 00:52:57,610

past cemeteries we there's a big study

1251
00:53:01,590 --> 00:52:59,680
though I have a state that looked at pre

1252
00:53:04,380 --> 00:53:01,600
agricultural and post agricultural

1253
00:53:06,140 --> 00:53:04,390
populations and just after agriculture

1254
00:53:08,760 --> 00:53:06,150
that same thing happened our health

1255
00:53:11,130 --> 00:53:08,770
deteriorated we started having all kinds

1256
00:53:13,320 --> 00:53:11,140
of new problems diseases but one of the

1257
00:53:15,390 --> 00:53:13,330
biggest indicators is our size or height

1258
00:53:16,770 --> 00:53:15,400
decrease tremendously as it did with

1259
00:53:19,410 --> 00:53:16,780
other animals that we were trying to

1260
00:53:22,320 --> 00:53:19,420
domesticate so yeah there's there's

1261
00:53:23,850 --> 00:53:22,330
quite a few of those malaria is an

1262
00:53:27,150 --> 00:53:23,860
important one another biocultural

1263
00:53:30,000 --> 00:53:27,160

example where we started to live in

1264

00:53:31,980 --> 00:53:30,010

places with standing pools of water and

1265

00:53:35,130 --> 00:53:31,990

without the trees that other animals

1266

00:53:37,440 --> 00:53:35,140

inhabit and we started to evolve

1267

00:53:40,170 --> 00:53:37,450

sickle-cell alleles sickle-cell anemia

1268

00:53:42,000 --> 00:53:40,180

which in itself is a negative thing but

1269

00:53:44,370 --> 00:53:42,010

in a malarial environment it actually

1270

00:53:47,010 --> 00:53:44,380

protects you against malaria so there's

1271

00:53:48,930 --> 00:53:47,020

there's quite a few changes like that

1272

00:53:50,250 --> 00:53:48,940

and I mentioned a number of them in the

1273

00:53:52,920 --> 00:53:50,260

book that are associated with more

1274

00:53:55,440 --> 00:53:52,930

recent evolutionary changes things that

1275

00:53:57,900 --> 00:53:55,450

you can identify that have happened in

1276

00:54:00,420 --> 00:53:57,910

very recent human history I wonder if

1277

00:54:03,270 --> 00:54:00,430

we're going to I was in a cafe yesterday

1278

00:54:06,360 --> 00:54:03,280

and I happen to look out and the whole

1279

00:54:08,670 --> 00:54:06,370

entire cafe everyone in that cafe was

1280

00:54:10,710 --> 00:54:08,680

looking down at their phone every single

1281

00:54:13,080 --> 00:54:10,720

person and I think if we're gonna

1282

00:54:16,850 --> 00:54:13,090

develop somehow if our bodies are going

1283

00:54:19,140 --> 00:54:16,860

to develop to change with a cell phone

1284

00:54:20,550 --> 00:54:19,150

we're right under the break so we're

1285

00:54:23,640 --> 00:54:20,560

gonna come back right after these

1286

00:54:29,610 --> 00:54:23,650

messages everyone hang in there we'll be

1287

00:54:31,740 --> 00:54:29,620

back in just a few minutes alrighty

1288

00:54:34,770 --> 00:54:31,750

welcome back this is Martin Willis with

1289

00:54:36,690 --> 00:54:34,780

podcast UFO and my guest is dr. Michael

1290

00:54:38,220 --> 00:54:36,700

P masters and we're having a very

1291

00:54:41,520 --> 00:54:38,230

interesting conversation we haven't

1292

00:54:45,180 --> 00:54:41,530

really got into what these things

1293

00:54:47,910 --> 00:54:45,190

possibly are yet and I'm heading that

1294

00:54:49,650 --> 00:54:47,920

way just to let you know if you're the

1295

00:54:53,550 --> 00:54:49,660

listener we're gonna take calls in about

1296

00:54:56,850 --> 00:54:53,560

a half an hour so from now so that

1297

00:54:57,910 --> 00:54:56,860

number is going to be the same as always

1298

00:55:01,809 --> 00:54:57,920

next

1299

00:55:03,190 --> 00:55:01,819

we should have a call screening set in

1300

00:55:05,829 --> 00:55:03,200

place with a different phone number that

1301
00:55:08,049 --> 00:55:05,839
number will be announced and I did want

1302
00:55:10,630 --> 00:55:08,059
to tell the listener that if anyone

1303
00:55:15,039 --> 00:55:10,640
wants to jump over at the the

1304
00:55:18,249 --> 00:55:15,049
International UFO Congress website

1305
00:55:21,059 --> 00:55:18,259
that's UFO Congress calm there is a code

1306
00:55:28,150 --> 00:55:21,069
you can put in there that's I you f Oh

1307
00:55:30,549 --> 00:55:28,160
see that's I you F Oh see that's like a

1308
00:55:32,890 --> 00:55:30,559
UFO with an eye in front of it and a C

1309
00:55:35,019 --> 00:55:32,900
after it and put in that code and you'll

1310
00:55:38,589 --> 00:55:35,029
get \$30 off if you want to get a ticket

1311
00:55:40,269 --> 00:55:38,599
for the International UFO Congress

1312
00:55:42,370 --> 00:55:40,279
coming up this September I can't wait

1313
00:55:45,420 --> 00:55:42,380

I'll be there as usual and it'll be a

1314

00:55:48,579 --> 00:55:45,430

lot of fun and so well our guest dr.

1315

00:55:50,349 --> 00:55:48,589

Michael masters will be there yeah like

1316

00:55:50,849 --> 00:55:50,359

that will be really nice to meet you in

1317

00:55:52,720 --> 00:55:50,859

person

1318

00:55:53,890 --> 00:55:52,730

absolutely I'm really looking forward to

1319

00:55:55,779 --> 00:55:53,900

that thing it's gonna be a really great

1320

00:55:58,329 --> 00:55:55,789

event I'd also like to mention that I

1321

00:56:00,910 --> 00:55:58,339

thought Alejandro's news segment was

1322

00:56:03,309 --> 00:56:00,920

tremendously fascinating really

1323

00:56:04,059 --> 00:56:03,319

informative and yeah that was so super

1324

00:56:05,859 --> 00:56:04,069

fun to listen to

1325

00:56:08,890 --> 00:56:05,869

oh that's great I'm glad I'll give him

1326

00:56:10,630 --> 00:56:08,900

that feedback yeah he does he's you know

1327

00:56:13,210 --> 00:56:10,640

there's not too many people in the topic

1328

00:56:17,979 --> 00:56:13,220

as deeply as he is and yeah that's a lot

1329

00:56:21,450 --> 00:56:17,989

of fun he's a good guy oh yeah so the we

1330

00:56:24,039 --> 00:56:21,460

haven't really touched on the possible

1331

00:56:25,779 --> 00:56:24,049

things that people are seeing possibly

1332

00:56:28,150 --> 00:56:25,789

time-travels yeah we're going to get

1333

00:56:32,289 --> 00:56:28,160

into that some more about a couple more

1334

00:56:35,049 --> 00:56:32,299

questions I had for you is you have

1335

00:56:37,829 --> 00:56:35,059

heard what people have described as what

1336

00:56:40,359 --> 00:56:37,839

they are seeing in these abduction

1337

00:56:42,700 --> 00:56:40,369

sequences you mentioned the greys that's

1338

00:56:44,920 --> 00:56:42,710

a one typical there's a lot of different

1339

00:56:47,920 --> 00:56:44,930

ones that people are saying a different

1340

00:56:49,089 --> 00:56:47,930

species or whatever and you know and I'm

1341

00:56:51,249 --> 00:56:49,099

on the fence about all that stuff

1342

00:56:55,779 --> 00:56:51,259

because I I don't really know you know

1343

00:57:01,269 --> 00:56:55,789

but do you think that we are on the path

1344

00:57:02,769 --> 00:57:01,279

of evolution to head toward a species

1345

00:57:04,839 --> 00:57:02,779

with the characteristics that you're

1346

00:57:06,339 --> 00:57:04,849

seeing they always talk about the large

1347

00:57:08,710 --> 00:57:06,349

eyes he always talk about the little

1348

00:57:10,960 --> 00:57:08,720

slit for the mouth thin bodies small and

1349

00:57:11,980 --> 00:57:10,970

stature mostly

1350

00:57:13,920 --> 00:57:11,990

this is what a lot of people are

1351
00:57:16,530 --> 00:57:13,930
reporting I don't know if you've ever

1352
00:57:20,530 --> 00:57:16,540
listened to any of the aerial school

1353
00:57:22,300 --> 00:57:20,540
incident in South Africa but that you

1354
00:57:25,360 --> 00:57:22,310
know they describe very well on what

1355
00:57:29,260 --> 00:57:25,370
they saw and similar aspects but skin

1356
00:57:31,930 --> 00:57:29,270
like porcelain and you know just there's

1357
00:57:34,390 --> 00:57:31,940
been so many accounts do you so the

1358
00:57:37,060 --> 00:57:34,400
question I know I'm rambling here but do

1359
00:57:40,540 --> 00:57:37,070
you see like a trend of evolution going

1360
00:57:41,800 --> 00:57:40,550
in any of these directions slowly yeah

1361
00:57:44,170 --> 00:57:41,810
absolutely

1362
00:57:47,950 --> 00:57:44,180
that's really a big focus of the book I

1363
00:57:49,750 --> 00:57:47,960

think is to to really focus on what we

1364

00:57:52,510 --> 00:57:49,760

can know now and looking back our

1365

00:57:55,000 --> 00:57:52,520

evolutionary past we can see these

1366

00:57:57,370 --> 00:57:55,010

changes taking place and we have a very

1367

00:57:59,770 --> 00:57:57,380

good record of them and we have very

1368

00:58:02,620 --> 00:57:59,780

good means with which to study them

1369

00:58:05,590 --> 00:58:02,630

primarily through CT scans and endo

1370

00:58:08,110 --> 00:58:05,600

casts and an MRI which is something I've

1371

00:58:09,970 --> 00:58:08,120

used in my own research quite a lot and

1372

00:58:12,810 --> 00:58:09,980

yeah if you look at these evolutionary

1373

00:58:15,400 --> 00:58:12,820

changes in our own lineage here on earth

1374

00:58:18,310 --> 00:58:15,410

projecting those forward you would get

1375

00:58:21,070 --> 00:58:18,320

something very very similar to what is

1376

00:58:23,410 --> 00:58:21,080

so ubiquitously reported and these

1377

00:58:25,810 --> 00:58:23,420

accounts and and I break it down into

1378

00:58:28,330 --> 00:58:25,820

more concrete terms and talk about what

1379

00:58:30,550 --> 00:58:28,340

specifically has led to our brains

1380

00:58:34,330 --> 00:58:30,560

growing larger and our faces growing

1381

00:58:35,830 --> 00:58:34,340

smaller and even trying to address

1382

00:58:37,660 --> 00:58:35,840

things like telepathy

1383

00:58:40,120 --> 00:58:37,670

that's so commonly reported and what

1384

00:58:41,890 --> 00:58:40,130

what what might contribute to that over

1385

00:58:44,530 --> 00:58:41,900

evolutionary time and looking at modern

1386

00:58:46,180 --> 00:58:44,540

research into brain to brain interaction

1387

00:58:49,390 --> 00:58:46,190

and different evolutionary trends

1388

00:58:50,890 --> 00:58:49,400

related to the the reduction of our face

1389

00:58:53,410 --> 00:58:50,900

and how that it could impact

1390

00:58:58,620 --> 00:58:53,420

vocalization over the long term so so

1391

00:59:01,870 --> 00:58:58,630

yeah I very much took time to research

1392

00:59:03,730 --> 00:59:01,880

numerous abduction accounts and other

1393

00:59:06,790 --> 00:59:03,740

Close Encounters of the fourth and fifth

1394

00:59:08,620 --> 00:59:06,800

kind in which these beams were observed

1395

00:59:10,540 --> 00:59:08,630

or people claim to have observed them

1396

00:59:13,750 --> 00:59:10,550

and and like I tell people all the time

1397

00:59:17,350 --> 00:59:13,760

if they were consistently describing

1398

00:59:19,030 --> 00:59:17,360

some ten legged squid-like monster

1399

00:59:23,200 --> 00:59:19,040

creature I never would have written this

1400

00:59:24,880 --> 00:59:23,210

book but the fact that they so often so

1401

00:59:27,099 --> 00:59:24,890

consistently are described

1402

00:59:30,549 --> 00:59:27,109

as hominins I mean if you look at the

1403

00:59:33,549 --> 00:59:30,559

form of these organisms and the the

1404

00:59:35,979 --> 00:59:33,559

average say even taking into account the

1405

00:59:39,249 --> 00:59:35,989

reptile like insect like and but even if

1406

00:59:41,349 --> 00:59:39,259

you average them all out what you get is

1407

00:59:43,720 --> 00:59:41,359

something that if you put them next to

1408

00:59:46,450 --> 00:59:43,730

us and our hominoid relatives the

1409

00:59:49,059 --> 00:59:46,460

chimpanzees orangutans gorillas all of

1410

00:59:51,640 --> 00:59:49,069

the different primates there's no

1411

00:59:53,470 --> 00:59:51,650

question that they would be considered a

1412

00:59:55,239 --> 00:59:53,480

hominid they have all of the

1413

00:59:58,299 --> 00:59:55,249

characteristics that we have and like I

1414

01:00:01,539 --> 00:59:58,309

said earlier we fight a lot of help what

1415

01:00:03,849 --> 01:00:01,549

traits should be used to classify a

1416

01:00:06,249 --> 01:00:03,859

specific species or a specific genus

1417

01:00:08,710 --> 01:00:06,259

within our own human evolutionary

1418

01:00:10,690 --> 01:00:08,720

history but but looking at this this

1419

01:00:12,579 --> 01:00:10,700

form that so commonly reported and

1420

01:00:14,739 --> 01:00:12,589

described in these accounts there's

1421

01:00:16,359 --> 01:00:14,749

there's absolutely no question and and

1422

01:00:19,539 --> 01:00:16,369

something that came up I gave a talk at

1423

01:00:21,880 --> 01:00:19,549

a MUFON meeting in Oregon just last week

1424

01:00:24,940 --> 01:00:21,890

two weeks ago and something that came up

1425

01:00:27,339 --> 01:00:24,950

were hybrids and I I mentioned to them

1426

01:00:30,370 --> 01:00:27,349

mmm well I mentioned to them that if you

1427

01:00:34,390 --> 01:00:30,380

believe that we are hybridizing with

1428

01:00:36,460 --> 01:00:34,400

these extra tempest' reels as I call

1429

01:00:38,440 --> 01:00:36,470

them then you have to acknowledge that

1430

01:00:40,779 --> 01:00:38,450

they are human because that's the

1431

01:00:42,999 --> 01:00:40,789

definition of a species the DEF and the

1432

01:00:44,859 --> 01:00:43,009

biological criteria of species

1433

01:00:47,349 --> 01:00:44,869

classification is that if two organisms

1434

01:00:48,609 --> 01:00:47,359

can mate with each other and produce

1435

01:00:50,710 --> 01:00:48,619

viable offspring

1436

01:00:52,749 --> 01:00:50,720

meaning that offspring itself is able to

1437

01:00:55,089 --> 01:00:52,759

reproduce then by definition they are

1438

01:00:57,549 --> 01:00:55,099

the same species so if you believe that

1439

01:00:59,289 --> 01:00:57,559

we are hybridizing with these aliens and

1440

01:01:01,299 --> 01:00:59,299

whatever capacity you understand them

1441

01:01:03,339 --> 01:01:01,309

you have to admit that they are human

1442

01:01:05,710 --> 01:01:03,349

simply because that's the criteria we

1443

01:01:07,839 --> 01:01:05,720

use to define humaneness and to define a

1444

01:01:10,239 --> 01:01:07,849

species so there's a there's a lot of

1445

01:01:12,430 --> 01:01:10,249

traits even beyond that that I think are

1446

01:01:14,970 --> 01:01:12,440

really important to consider and the

1447

01:01:17,410 --> 01:01:14,980

point of the book and in addition to

1448

01:01:19,329 --> 01:01:17,420

looking at questions of what

1449

01:01:20,950 --> 01:01:19,339

extraterrestrial life might look like in

1450

01:01:24,239 --> 01:01:20,960

other planets and the question of time

1451

01:01:27,069 --> 01:01:24,249

and time travel the cosmos writ large

1452

01:01:29,019 --> 01:01:27,079

there the main focus of the book or at

1453

01:01:33,370 --> 01:01:29,029

least a principal focus of the book is

1454

01:01:36,099 --> 01:01:33,380

that is what what have we done what has

1455

01:01:38,470 --> 01:01:36,109

happened to us how have we evolved over

1456

01:01:40,360 --> 01:01:38,480

the last six to eight million years

1457

01:01:43,270 --> 01:01:40,370

and what's that going to look like going

1458

01:01:45,130 --> 01:01:43,280

forward just if we project those same

1459

01:01:47,680 --> 01:01:45,140

things forward and and that's hard to

1460

01:01:50,460 --> 01:01:47,690

argue that it wouldn't look like what's

1461

01:01:52,810 --> 01:01:50,470

being described in these encounters has

1462

01:01:54,880 --> 01:01:52,820

all these different thoughts are going

1463

01:01:58,090 --> 01:01:54,890

through my mind is you're speaking and

1464

01:01:59,860 --> 01:01:58,100

one of them is you know I talked about

1465

01:02:01,720 --> 01:01:59,870

earlier the bottleneck of Technology

1466

01:02:04,690 --> 01:02:01,730

it's possible we could wipe ourselves

1467

01:02:06,730 --> 01:02:04,700

out and start over again

1468

01:02:09,400 --> 01:02:06,740

I mean if time is you know if we have

1469

01:02:13,030 --> 01:02:09,410

enough time left before the Sun swells

1470

01:02:16,900 --> 01:02:13,040

up and yeah burns everything on earth we

1471

01:02:19,120 --> 01:02:16,910

have time to evolve again possibly but I

1472

01:02:21,190 --> 01:02:19,130

don't know I'm going off on that one but

1473

01:02:24,760 --> 01:02:21,200

one of the things I was thinking about

1474

01:02:26,980 --> 01:02:24,770

is you talked about telepathy and a lot

1475

01:02:28,480 --> 01:02:26,990

of people have reported kind of

1476

01:02:30,430 --> 01:02:28,490

something that kind of fits with what

1477

01:02:33,580 --> 01:02:30,440

you're talking about I would have to say

1478

01:02:35,200 --> 01:02:33,590

a lot of people report of take care of

1479

01:02:39,040 --> 01:02:35,210

your planet you know they're them along

1480

01:02:41,080 --> 01:02:39,050

those lines like you know you hear about

1481

01:02:43,720 --> 01:02:41,090

that and I mentioned you know the aerial

1482

01:02:46,120 --> 01:02:43,730

school very is very commonly yeah yeah

1483

01:02:48,310 --> 01:02:46,130

so that kind of fits with your thoughts

1484

01:02:50,440 --> 01:02:48,320

but another thing that comes to mind is

1485

01:02:53,140 --> 01:02:50,450

like the butterfly effect uh you know

1486

01:02:55,270 --> 01:02:53,150

don't change anything because that one

1487

01:02:57,550 --> 01:02:55,280

little subtle change may wipe out the

1488

01:02:59,380 --> 01:02:57,560

fact that you even exist so what were

1489

01:03:01,960 --> 01:02:59,390

your what how did you get into any of

1490

01:03:04,360 --> 01:03:01,970

that stuff oh yeah we do any of that oh

1491

01:03:07,390 --> 01:03:04,370

absolutely we dive we dive very very

1492

01:03:10,660 --> 01:03:07,400

deep into that part of the swimming pool

1493

01:03:13,420 --> 01:03:10,670

I'd like to circle back to something you

1494

01:03:16,210 --> 01:03:13,430

just said though is there if a big part

1495

01:03:18,250 --> 01:03:16,220

of this model and what I think is

1496

01:03:20,530 --> 01:03:18,260

important especially for your your

1497

01:03:22,120 --> 01:03:20,540

scientific listeners are your listeners

1498

01:03:24,340 --> 01:03:22,130

that are involved in the scientists as

1499

01:03:26,590 --> 01:03:24,350

to understand is that it is a testable

1500

01:03:28,960 --> 01:03:26,600

hypothesis it's falsifiable and as you

1501

01:03:33,880 --> 01:03:28,970

mentioned even if we wipe ourselves out

1502

01:03:37,810 --> 01:03:33,890

we've still tested this model we we by

1503

01:03:39,910 --> 01:03:37,820

definition we would become them and at

1504

01:03:41,860 --> 01:03:39,920

that point at which we do or whatever

1505

01:03:44,140 --> 01:03:41,870

point they decide to let us in on this

1506

01:03:46,150 --> 01:03:44,150

we would understand this we would know

1507

01:03:48,400 --> 01:03:46,160

this we could search the heavens for

1508

01:03:50,950 --> 01:03:48,410

millenia trying to find organisms on

1509

01:03:52,660 --> 01:03:50,960

other planets that fit our hominin form

1510

01:03:54,609 --> 01:03:52,670

and and just keep

1511

01:03:56,559 --> 01:03:54,619

keep looking but at some point we would

1512

01:03:58,319 --> 01:03:56,569

eventually become them under this model

1513

01:04:01,569 --> 01:03:58,329

and I think that's an important thing to

1514

01:04:03,039 --> 01:04:01,579

mention and like you said yeah why would

1515

01:04:04,900 --> 01:04:03,049

they why would they constantly be

1516

01:04:06,880 --> 01:04:04,910

telling us take care of your planet that

1517

01:04:09,059 --> 01:04:06,890

are warning us about nuclear weapons or

1518

01:04:11,710 --> 01:04:09,069

why would there be so many reports

1519

01:04:14,289 --> 01:04:11,720

during major historic events like World

1520

01:04:17,710 --> 01:04:14,299

War two and the Foo Fighters or with all

1521

01:04:19,450 --> 01:04:17,720

of the sightings over major historic

1522

01:04:22,049 --> 01:04:19,460

prehistoric sites all of those things

1523

01:04:24,940 --> 01:04:22,059

just make more sense in the context of

1524

01:04:28,000 --> 01:04:24,950

future humans investigating their past

1525

01:04:29,200 --> 01:04:28,010

or possibly even tourism like hockey and

1526

01:04:32,950 --> 01:04:29,210

always said what we started this

1527

01:04:35,020 --> 01:04:32,960

conversation with earlier is that if

1528

01:04:36,789 --> 01:04:35,030

because we're not inundated with time

1529

01:04:39,549 --> 01:04:36,799

tourists means time travel must not

1530

01:04:41,500 --> 01:04:39,559

exist and I counter that by saying we're

1531

01:04:43,539 --> 01:04:41,510

probably seeing them all the time and

1532

01:04:45,700 --> 01:04:43,549

that's what the UFO phenomenon is or at

1533

01:04:48,789 --> 01:04:45,710

least a big part of it so I think it's

1534

01:04:51,250 --> 01:04:48,799

important to also acknowledge those

1535

01:04:55,020 --> 01:04:51,260

things but but ya know the a big part I

1536

01:04:58,870 --> 01:04:55,030

would say as I just mentioned the first

1537

01:05:02,170 --> 01:04:58,880

major focus of this book is on our

1538

01:05:04,720 --> 01:05:02,180

evolutionary anatomy and what links our

1539

01:05:06,849 --> 01:05:04,730

past to our present and our present to

1540

01:05:08,920 --> 01:05:06,859

our presumed future but the other big

1541

01:05:12,549 --> 01:05:08,930

part is time you can't talk about time

1542

01:05:14,349 --> 01:05:12,559

and time travel and the context of this

1543

01:05:16,930 --> 01:05:14,359

phenomenon without providing a very

1544

01:05:19,049 --> 01:05:16,940

detailed account of our current

1545

01:05:21,670 --> 01:05:19,059

understanding of what time is or how

1546

01:05:23,770 --> 01:05:21,680

backward time travel may be achieved so

1547

01:05:27,000 --> 01:05:23,780

a big section throughout the middle of

1548

01:05:30,160 --> 01:05:27,010

the book focus is on the history of our

1549

01:05:33,069 --> 01:05:30,170

understanding of time and what time

1550

01:05:34,270 --> 01:05:33,079

means cross-culturally it's really

1551

01:05:36,940 --> 01:05:34,280

interesting to look at how other

1552

01:05:40,059 --> 01:05:36,950

cultures perceive time or don't at all

1553

01:05:42,940 --> 01:05:40,069

some societies don't have any word or

1554

01:05:44,910 --> 01:05:42,950

any verbs that describe actions and the

1555

01:05:48,190 --> 01:05:44,920

past or the future

1556

01:05:50,829 --> 01:05:48,200

so just acknowledging that variation and

1557

01:05:53,500 --> 01:05:50,839

our understanding of perception of time

1558

01:05:56,430 --> 01:05:53,510

and then really getting into how

1559

01:05:58,510 --> 01:05:56,440

physicists understand time they

1560

01:06:00,130 --> 01:05:58,520

historians and logicians and

1561

01:06:01,960 --> 01:06:00,140

philosophers would probably argue with

1562

01:06:04,359 --> 01:06:01,970

this to some extent but but physicists

1563

01:06:06,490 --> 01:06:04,369

are in the best position to really

1564

01:06:09,430 --> 01:06:06,500

understand what time is

1565

01:06:11,140 --> 01:06:09,440

and they in engineers and people and

1566

01:06:13,950 --> 01:06:11,150

material sciences are probably going to

1567

01:06:17,470 --> 01:06:13,960

be the most instrumental and actually

1568

01:06:22,090 --> 01:06:17,480

developing a time machine so I really

1569

01:06:25,660 --> 01:06:22,100

turn to modern physics research research

1570

01:06:27,550 --> 01:06:25,670

in quantum mechanics with regard to not

1571

01:06:30,070 --> 01:06:27,560

just how we might achieve backward time

1572

01:06:33,010 --> 01:06:30,080

travel when I go into great detail about

1573

01:06:35,140 --> 01:06:33,020

that and looking at early research in

1574

01:06:37,930 --> 01:06:35,150

this with Van Stockham and gödel and

1575

01:06:40,690 --> 01:06:37,940

Tipler and modern research that's that's

1576

01:06:43,090 --> 01:06:40,700

come from that much of which really all

1577

01:06:45,910 --> 01:06:43,100

of which started with Einstein and his

1578

01:06:48,430 --> 01:06:45,920

general relativity model and different

1579

01:06:51,130 --> 01:06:48,440

solutions to his field equations so I go

1580

01:06:52,660 --> 01:06:51,140

deep into that but then also get into

1581

01:06:54,970 --> 01:06:52,670

what your you're talking about you know

1582

01:06:57,910 --> 01:06:54,980

what happens if we travel through time

1583

01:07:00,250 --> 01:06:57,920

and the the big questions always sent

1584

01:07:02,410 --> 01:07:00,260

around paradoxes the grandfather paradox

1585

01:07:04,990 --> 01:07:02,420

and other consistency paradoxes and you

1586

01:07:09,130 --> 01:07:05,000

see these in television and movies all

1587

01:07:12,250 --> 01:07:09,140

the time many books really look at time

1588

01:07:15,730 --> 01:07:12,260

travel and unobscured terms and fantasy

1589

01:07:17,890 --> 01:07:15,740

terms but well what I found that I have

1590

01:07:19,750 --> 01:07:17,900

to do often times and talking about this

1591

01:07:22,360 --> 01:07:19,760

book and talking about modern physics

1592

01:07:23,980 --> 01:07:22,370

research into this question is correct a

1593

01:07:26,350 --> 01:07:23,990

lot of those assumptions that people

1594

01:07:29,200 --> 01:07:26,360

have that they've gotten from things

1595

01:07:31,360 --> 01:07:29,210

like back to the future or Futurama or

1596

01:07:33,400 --> 01:07:31,370

any other a show that talks about that

1597

01:07:36,070 --> 01:07:33,410

future Futurama they actually do a great

1598

01:07:37,960 --> 01:07:36,080

job they really acknowledge paradoxes

1599

01:07:39,820 --> 01:07:37,970

and try to stay consistent with it and

1600

01:07:42,790 --> 01:07:39,830

they have I think collectively they had

1601
01:07:44,680 --> 01:07:42,800
50 years at Harvard and masters and PhD

1602
01:07:46,030 --> 01:07:44,690
programs the writers on that show it's a

1603
01:07:48,310 --> 01:07:46,040
very good show and they do a great job

1604
01:07:50,590 --> 01:07:48,320
but there are a lot of others that don't

1605
01:07:54,160 --> 01:07:50,600
they don't have that expertise to draw

1606
01:07:56,500 --> 01:07:54,170
from and and so I find that that I often

1607
01:07:58,570 --> 01:07:56,510
am addressing those things and those

1608
01:08:00,430 --> 01:07:58,580
questions that relate to the paradoxes

1609
01:08:03,700 --> 01:08:00,440
and you're right the butterfly effect is

1610
01:08:07,950 --> 01:08:03,710
a big one and and it's important to

1611
01:08:11,320 --> 01:08:07,960
acknowledge though that the the main

1612
01:08:14,890 --> 01:08:11,330
idea or the consensus among among

1613
01:08:17,200 --> 01:08:14,900

physicists is that time and space exist

1614

01:08:19,269 --> 01:08:17,210

is one giant entity what they refer to

1615

01:08:20,270 --> 01:08:19,279

as block time or landscape time or the

1616

01:08:22,250 --> 01:08:20,280

block universe

1617

01:08:26,270 --> 01:08:22,260

something that you often time here we're

1618

01:08:28,700 --> 01:08:26,280

all moments all events that ever existed

1619

01:08:30,530 --> 01:08:28,710

or will exist from the beginning of the

1620

01:08:33,230 --> 01:08:30,540

Big Bang to the end of time when all

1621

01:08:36,560 --> 01:08:33,240

matter is sucked up into black holes or

1622

01:08:40,250 --> 01:08:36,570

however happens exists is one static

1623

01:08:43,610 --> 01:08:40,260

block of space-time and we as cognizant

1624

01:08:45,860 --> 01:08:43,620

organisms biological beings move through

1625

01:08:49,610 --> 01:08:45,870

that and it feels like we do so linearly

1626
01:08:51,650 --> 01:08:49,620
we perceive these events that are exist

1627
01:08:54,020 --> 01:08:51,660
as part of the static block universe as

1628
01:08:56,630 --> 01:08:54,030
a sequential series of events we have

1629
01:08:59,630 --> 01:08:56,640
this entrenched idea of an arrow of time

1630
01:09:02,210 --> 01:08:59,640
or linear time which really is is kind

1631
01:09:04,550 --> 01:09:02,220
of a false sense of how things work

1632
01:09:06,680 --> 01:09:04,560
almost everything in physics is time

1633
01:09:08,510 --> 01:09:06,690
reversible it's time neutral can it

1634
01:09:10,820 --> 01:09:08,520
makes just as much sense running from

1635
01:09:14,720 --> 01:09:10,830
future to past as it does from past to

1636
01:09:17,300 --> 01:09:14,730
future but we see see things as

1637
01:09:19,730 --> 01:09:17,310
progressing in this way so a lot of a

1638
01:09:21,380 --> 01:09:19,740

lot of those issues related to the

1639

01:09:23,390 --> 01:09:21,390

butterfly effect and consistency

1640

01:09:25,790 --> 01:09:23,400

paradoxes just have to do with our

1641

01:09:29,480 --> 01:09:25,800

entrenched view of linear time rather

1642

01:09:31,400 --> 01:09:29,490

than being some some violation of the

1643

01:09:33,530 --> 01:09:31,410

physical laws of the universe so I think

1644

01:09:38,030 --> 01:09:33,540

it's important to make that distinction

1645

01:09:39,530 --> 01:09:38,040

and then I really dive into what's

1646

01:09:41,840 --> 01:09:39,540

what's referred to as the Novikov

1647

01:09:43,400 --> 01:09:41,850

self-consistency principle he was a

1648

01:09:46,150 --> 01:09:43,410

Russian physicist he was really

1649

01:09:48,830 --> 01:09:46,160

instrumental and continues to be

1650

01:09:50,540 --> 01:09:48,840

instrumental and providing clarity on

1651
01:09:53,570 --> 01:09:50,550
these issues and hope he's helping us

1652
01:09:57,290 --> 01:09:53,580
understand how the future can dictate

1653
01:09:58,910 --> 01:09:57,300
events in the past given that the future

1654
01:10:00,440 --> 01:09:58,920
present and past are all one if you

1655
01:10:02,930 --> 01:10:00,450
understand it in the context of this

1656
01:10:04,880 --> 01:10:02,940
block universe and block time then none

1657
01:10:06,890 --> 01:10:04,890
of them are ahead of or behind each

1658
01:10:08,870 --> 01:10:06,900
other in the presence of a time machine

1659
01:10:10,360 --> 01:10:08,880
once you have a time machine the ability

1660
01:10:13,370 --> 01:10:10,370
to travel through the block universe

1661
01:10:15,230 --> 01:10:13,380
there there is no pass to future

1662
01:10:18,230 --> 01:10:15,240
causality any longer and this has

1663
01:10:22,550 --> 01:10:18,240

actually recently been demonstrated with

1664

01:10:26,900 --> 01:10:22,560

with some experiments in physics looking

1665

01:10:29,240 --> 01:10:26,910

at wheelers Gedanken models and things

1666

01:10:30,520 --> 01:10:29,250

that are probably not something I should

1667

01:10:32,570 --> 01:10:30,530

go into now because they're pretty

1668

01:10:34,220 --> 01:10:32,580

complex and I probably put people to

1669

01:10:37,010 --> 01:10:34,230

sleep with it but

1670

01:10:39,010 --> 01:10:37,020

the the main takeaway here is that

1671

01:10:42,320 --> 01:10:39,020

visiting in the past its non-disruptive

1672

01:10:44,689 --> 01:10:42,330

so anything resulting from someone

1673

01:10:47,540 --> 01:10:44,699

visiting the past interacting with the

1674

01:10:49,700 --> 01:10:47,550

past already occurred before that person

1675

01:10:52,189 --> 01:10:49,710

ever left from the future to go to the

1676

01:10:54,320 --> 01:10:52,199

past it's it's always a part of it so

1677

01:10:56,689 --> 01:10:54,330

there's an inherent self-consistency

1678

01:10:58,970 --> 01:10:56,699

that's maintained across these different

1679

01:11:00,410 --> 01:10:58,980

slices of block time so we don't have to

1680

01:11:02,600 --> 01:11:00,420

worry about a butterfly effect we don't

1681

01:11:04,880 --> 01:11:02,610

have to worry about a new parallel

1682

01:11:06,830 --> 01:11:04,890

universe papi now for the universe

1683

01:11:07,490 --> 01:11:06,840

having to correct itself when we travel

1684

01:11:09,410 --> 01:11:07,500

into the past

1685

01:11:11,080 --> 01:11:09,420

because it's already self-correcting

1686

01:11:16,490 --> 01:11:11,090

there's already self-consistency

1687

01:11:18,290 --> 01:11:16,500

inherent across the block universe this

1688

01:11:20,390 --> 01:11:18,300

is this really fascinating to me

1689

01:11:22,689 --> 01:11:20,400

I was gonna mention I'm just going to

1690

01:11:25,100 --> 01:11:22,699

talk about parallel universe Possible's

1691

01:11:27,979 --> 01:11:25,110

possibilities and other dimensions and

1692

01:11:29,810 --> 01:11:27,989

all that but I I wanted to you know when

1693

01:11:31,970 --> 01:11:29,820

you're talking about time in the very

1694

01:11:34,729 --> 01:11:31,980

beginning back there it reminded me of I

1695

01:11:37,939 --> 01:11:34,739

had a great science teacher in high

1696

01:11:40,220 --> 01:11:37,949

school and he said on Friday afternoon

1697

01:11:42,229 --> 01:11:40,230

he said okay your your assignment for

1698

01:11:45,200 --> 01:11:42,239

this week is weekend is to come back

1699

01:11:50,300 --> 01:11:45,210

with a full definition of time and then

1700

01:11:51,590 --> 01:11:50,310

he and I remember you know I really it

1701

01:11:53,180 --> 01:11:51,600

was a fascinating Monday was a

1702

01:11:55,580 --> 01:11:53,190

fascinating day I can't really remember

1703

01:11:59,240 --> 01:11:55,590

yet it's a long long time ago but yeah

1704

01:12:00,590 --> 01:11:59,250

but you know was I you know basically

1705

01:12:04,419 --> 01:12:00,600

we're saying well this is how you

1706

01:12:06,680 --> 01:12:04,429

measure you know like you know you know

1707

01:12:08,330 --> 01:12:06,690

measure moments you know type of thing

1708

01:12:11,120 --> 01:12:08,340

but no one could really I mean there

1709

01:12:13,760 --> 01:12:11,130

really isn't you know what is the best

1710

01:12:15,800 --> 01:12:13,770

description of time and and how how we

1711

01:12:17,360 --> 01:12:15,810

understand it you know you said that any

1712

01:12:19,790 --> 01:12:17,370

old time and that's all we can really

1713

01:12:23,090 --> 01:12:19,800

understand right my favorite definition

1714

01:12:26,720 --> 01:12:23,100

of time physicists or his first name

1715

01:12:28,189 --> 01:12:26,730

William Phillips maybe well he quoted

1716

01:12:31,280 --> 01:12:28,199

this I guess it was Einstein that first

1717

01:12:32,990 --> 01:12:31,290

said it but he he would often respond to

1718

01:12:36,380 --> 01:12:33,000

that question with time as what clocks

1719

01:12:38,240 --> 01:12:36,390

measure yeah and that was it because no

1720

01:12:40,130 --> 01:12:38,250

but if own people like Einstein don't

1721

01:12:42,260 --> 01:12:40,140

fully understand what time is and we

1722

01:12:43,970 --> 01:12:42,270

have gotten a much better idea since

1723

01:12:45,919 --> 01:12:43,980

then and especially with research and

1724

01:12:47,839 --> 01:12:45,929

the quantum mechanics and particle

1725

01:12:50,060 --> 01:12:47,849

physics and cosmology and

1726

01:12:52,419 --> 01:12:50,070

formation of the universe we have a much

1727

01:12:55,700 --> 01:12:52,429

better understanding than we used to but

1728

01:12:56,899 --> 01:12:55,710

it's still something that eludes us and

1729

01:12:58,910 --> 01:12:56,909

I think that's awesome

1730

01:13:01,069 --> 01:12:58,920

that you're your teacher asked that

1731

01:13:03,439 --> 01:13:01,079

question and especially with no clarity

1732

01:13:05,419 --> 01:13:03,449

given whatsoever just throwing it out

1733

01:13:08,629 --> 01:13:05,429

there and say are you guys figure that's

1734

01:13:10,520 --> 01:13:08,639

a great teaching tool heuristic devices

1735

01:13:13,490 --> 01:13:10,530

we call them because it forces you to

1736

01:13:16,189 --> 01:13:13,500

think well what is he asking or she I

1737

01:13:17,930 --> 01:13:16,199

don't know yeah and and what why did

1738

01:13:19,339 --> 01:13:17,940

they ask that and well what if they were

1739

01:13:20,899 --> 01:13:19,349

asking for this reason then you have to

1740

01:13:22,790 --> 01:13:20,909

go and look at all of these different

1741

01:13:25,040 --> 01:13:22,800

things and you get a much deeper insight

1742

01:13:27,020 --> 01:13:25,050

into that thing and with time it takes

1743

01:13:29,510 --> 01:13:27,030

that with something as complex as time

1744

01:13:32,390 --> 01:13:29,520

it takes really coming at it in all of

1745

01:13:35,750 --> 01:13:32,400

these different ways and I remember our

1746

01:13:38,419 --> 01:13:35,760

social media site for academics early

1747

01:13:41,540 --> 01:13:38,429

swear we can keep track of publications

1748

01:13:44,870 --> 01:13:41,550

and who's publishing what when is a site

1749

01:13:47,390 --> 01:13:44,880

called research gate and I think was

1750

01:13:49,790 --> 01:13:47,400

last year sometime one of my peer

1751

01:13:52,189 --> 01:13:49,800

reviewers asked a very specific and

1752

01:13:55,700 --> 01:13:52,199

insightful question I'm related to a

1753

01:13:57,500 --> 01:13:55,710

specific aspect of time and because

1754

01:13:59,120 --> 01:13:57,510

there's so many different academics from

1755

01:14:01,550 --> 01:13:59,130

all over the world and the site I just

1756

01:14:03,890 --> 01:14:01,560

posted her question copy and pasted it

1757

01:14:06,050 --> 01:14:03,900

on to research gate and within a day

1758

01:14:10,040 --> 01:14:06,060

there was something like 200 responses

1759

01:14:13,490 --> 01:14:10,050

by PhDs in physics and philosophy and

1760

01:14:15,530 --> 01:14:13,500

history and astronomy just coming out of

1761

01:14:17,300 --> 01:14:15,540

the woodwork because people are so

1762

01:14:20,300 --> 01:14:17,310

passionate about and it's this one of

1763

01:14:24,080 --> 01:14:20,310

the last great unknowns is not not just

1764

01:14:25,760 --> 01:14:24,090

what time is but but how how do we

1765

01:14:28,939 --> 01:14:25,770

really understand it and how could we

1766

01:14:31,310 --> 01:14:28,949

manipulate it potentially in the same

1767

01:14:33,530 --> 01:14:31,320

way that you see with all of these

1768

01:14:35,390 --> 01:14:33,540

celestial bodies and black holes where

1769

01:14:37,520 --> 01:14:35,400

there's this tremendous war bridge of

1770

01:14:41,270 --> 01:14:37,530

space and time and with very rapid

1771

01:14:43,280 --> 01:14:41,280

movement high velocity and it was it was

1772

01:14:44,990 --> 01:14:43,290

really unsafe I read every single one of

1773

01:14:48,050 --> 01:14:45,000

them and I'd kind of jump in from time

1774

01:14:51,890 --> 01:14:48,060

to time but what I really just watched

1775

01:14:53,780 --> 01:14:51,900

is this really complex conversation

1776

01:14:56,000 --> 01:14:53,790

unfolded in front of me because of this

1777

01:14:58,010 --> 01:14:56,010

one simple question that one of my peer

1778

01:15:00,770 --> 01:14:58,020

reviewers asked about and and I think

1779

01:15:01,760 --> 01:15:00,780

that's a testament to how how

1780

01:15:04,760 --> 01:15:01,770

interesting

1781

01:15:11,570 --> 01:15:04,770

but yet how elusive the question of time

1782

01:15:13,070 --> 01:15:11,580

really is right right now the the one

1783

01:15:17,960 --> 01:15:13,080

question I have for you now there have

1784

01:15:20,300 --> 01:15:17,970

been people reporting abductions

1785

01:15:22,730 --> 01:15:20,310

the earliest known one was in the 1920s

1786

01:15:25,760 --> 01:15:22,740

and then you really didn't hear of

1787

01:15:28,550 --> 01:15:25,770

anything then you heard nineteen sixty

1788

01:15:30,740 --> 01:15:28,560

62 with a Betty and Barney Hill and then

1789

01:15:32,510 --> 01:15:30,750

and then you start and then Travis

1790

01:15:35,150 --> 01:15:32,520

Walton and then you you started hearing

1791

01:15:40,220 --> 01:15:35,160

more and more of them I guess the

1792

01:15:42,740 --> 01:15:40,230

question is for you is why now why in

1793

01:15:45,560 --> 01:15:42,750

the modern more what we were going to

1794

01:15:48,050 --> 01:15:45,570

call the modern times modern UFO you

1795

01:15:51,260 --> 01:15:48,060

know we called the modern UFOs 1947 so

1796

01:15:54,410 --> 01:15:51,270

till now type of thing but why would you

1797

01:15:56,900 --> 01:15:54,420

suspect that there wasn't these

1798

01:15:58,520 --> 01:15:56,910

situations happening prior to or do you

1799

01:16:02,360 --> 01:15:58,530

think they may have been happening and

1800

01:16:04,820 --> 01:16:02,370

just not not imported I I think they've

1801

01:16:07,430 --> 01:16:04,830

been happening as far back into the past

1802

01:16:11,210 --> 01:16:07,440

as our future descendants are able to go

1803

01:16:13,370 --> 01:16:11,220

I think and that's probably a really it

1804

01:16:16,190 --> 01:16:13,380

might be an evolving point in the past

1805

01:16:17,990 --> 01:16:16,200

to where with advances in technology

1806

01:16:20,870 --> 01:16:18,000

with the ability to go faster

1807

01:16:22,760 --> 01:16:20,880

well light cones are oriented toward the

1808

01:16:25,070 --> 01:16:22,770

past and you can create closed timelike

1809

01:16:29,090 --> 01:16:25,080

curves I think the challenge will be how

1810

01:16:31,790 --> 01:16:29,100

fast can they go where what time can

1811

01:16:35,960 --> 01:16:31,800

they get to physically in the past and I

1812

01:16:39,050 --> 01:16:35,970

think that will be a really important

1813

01:16:40,790 --> 01:16:39,060

threshold and one that will continue to

1814

01:16:43,940 --> 01:16:40,800

be pushed because it's important if

1815

01:16:46,610 --> 01:16:43,950

you're studying the past and you are

1816

01:16:48,530 --> 01:16:46,620

able to collect data from that past the

1817

01:16:51,020 --> 01:16:48,540

earlier you can go the more information

1818

01:16:53,690 --> 01:16:51,030

you have the broader the span of your

1819

01:16:56,090 --> 01:16:53,700

knowledge is so I think from whatever

1820

01:16:58,520 --> 01:16:56,100

point they're able to they have been

1821

01:17:01,640 --> 01:16:58,530

doing it and I can't say what point in

1822

01:17:04,820 --> 01:17:01,650

the past that is I think I actually saw

1823

01:17:08,090 --> 01:17:04,830

you know I think it was maybe even under

1824

01:17:11,150 --> 01:17:08,100

hypnosis Jim Penniston talking about the

1825

01:17:14,000 --> 01:17:11,160

information he was given a binary code

1826
01:17:15,229 --> 01:17:14,010
type of situation but but mentioned the

1827
01:17:16,700 --> 01:17:15,239
same thing I found this

1828
01:17:19,549 --> 01:17:16,710
after I published the book so it was

1829
01:17:21,379 --> 01:17:19,559
really interesting to see but then even

1830
01:17:23,299 --> 01:17:21,389
saying they could only go I think was

1831
01:17:25,520 --> 01:17:23,309
something like fifty thousand years into

1832
01:17:28,430 --> 01:17:25,530
the past just because of limitations and

1833
01:17:31,970 --> 01:17:28,440
and their craft and and the speed at

1834
01:17:35,000 --> 01:17:31,980
which they could obtain so no I think I

1835
01:17:37,399 --> 01:17:35,010
think it's probably two things an aspect

1836
01:17:40,790 --> 01:17:37,409
of that is somewhat becoming normalized

1837
01:17:42,169 --> 01:17:40,800
and that's really amazing to see right

1838
01:17:44,330 --> 01:17:42,179

now that it's something that's coming

1839

01:17:47,089 --> 01:17:44,340

out in the media more and it's it's

1840

01:17:49,129 --> 01:17:47,099

becoming something that's discussed and

1841

01:17:51,770 --> 01:17:49,139

those that have said no UFOs aren't real

1842

01:17:53,720 --> 01:17:51,780

or now having to really take a step back

1843

01:17:54,919 --> 01:17:53,730

and think about that and try to assess

1844

01:18:00,259 --> 01:17:54,929

whether they're just being closed-minded

1845

01:18:02,540 --> 01:18:00,269

or have biases or just really don't want

1846

01:18:08,020 --> 01:18:02,550

them to be real but in any case I think

1847

01:18:11,120 --> 01:18:08,030

that at some point we're gonna have to

1848

01:18:13,399 --> 01:18:11,130

come to grips with this that if if this

1849

01:18:17,419 --> 01:18:13,409

has been happening if this is happening

1850

01:18:19,160 --> 01:18:17,429

now and it's becoming normalized we're

1851

01:18:20,419 --> 01:18:19,170

gonna hear about it more as we hear

1852

01:18:22,339 --> 01:18:20,429

about it more it's going to help with

1853

01:18:25,250 --> 01:18:22,349

that normality and you can kind of hear

1854

01:18:27,620 --> 01:18:25,260

this drip drip drip of disclosure that

1855

01:18:29,779 --> 01:18:27,630

that we're just moving toward this point

1856

01:18:31,489 --> 01:18:29,789

where it might be something that's

1857

01:18:33,529 --> 01:18:31,499

that's widely Ignazio right about that

1858

01:18:35,299 --> 01:18:33,539

toward the end of the book where if we

1859

01:18:37,430 --> 01:18:35,309

do get to the point where there isn't

1860

01:18:39,439 --> 01:18:37,440

secrecy surrounding the subject and

1861

01:18:40,910 --> 01:18:39,449

these are indeed our future descendants

1862

01:18:43,370 --> 01:18:40,920

coming back through time and we don't

1863

01:18:45,169 --> 01:18:43,380

have to worry about disruptions to space

1864

01:18:48,560 --> 01:18:45,179

time or the butterfly effect or anything

1865

01:18:50,930 --> 01:18:48,570

like that it's possible that in the

1866

01:18:52,879 --> 01:18:50,940

future even the proximate future the

1867

01:18:54,950 --> 01:18:52,889

next hundred years or twenty years or

1868

01:18:58,189 --> 01:18:54,960

whatever point they decide we're ready

1869

01:18:59,779 --> 01:18:58,199

to know this we it could be as common to

1870

01:19:01,879 --> 01:18:59,789

hang out with people from a thousand

1871

01:19:03,979 --> 01:19:01,889

years in the future as it is now to hang

1872

01:19:06,109 --> 01:19:03,989

out with people from sub-saharan Africa

1873

01:19:09,410 --> 01:19:06,119

or Australia or the Far East or Europe

1874

01:19:11,569 --> 01:19:09,420

or the United States wherever we we see

1875

01:19:14,750 --> 01:19:11,579

variation geographically what refer to

1876

01:19:16,339 --> 01:19:14,760

as geographic race or ancestry but in

1877

01:19:19,189 --> 01:19:16,349

the future we could potentially be

1878

01:19:22,509 --> 01:19:19,199

interacting with people who have

1879

01:19:24,890 --> 01:19:22,519

temporal ancestry they have variation

1880

01:19:26,419 --> 01:19:24,900

resulting from where they came from in

1881

01:19:28,219 --> 01:19:26,429

time and I think that would be an

1882

01:19:29,060 --> 01:19:28,229

amazing thing to see and I certainly

1883

01:19:33,669 --> 01:19:29,070

hope that happened

1884

01:19:36,140 --> 01:19:33,679

my lifetime mm-hmm-hmm I wanted to just

1885

01:19:38,030 --> 01:19:36,150

another thing that I was just thinking

1886

01:19:42,260 --> 01:19:38,040

of just now is that a lot of times we

1887

01:19:44,030 --> 01:19:42,270

think of how people in even sometimes

1888

01:19:47,120 --> 01:19:44,040

just a few hundred years in the past

1889

01:19:48,979 --> 01:19:47,130

maybe not being as bright as us and and

1890

01:19:52,550 --> 01:19:48,989

I I don't agree with that at all as a

1891

01:19:55,310 --> 01:19:52,560

matter of fact you know I transcribed a

1892

01:19:58,399 --> 01:19:55,320

six-page letter of George Washington

1893

01:20:00,649 --> 01:19:58,409

wrote and I had to use the dictionary 25

1894

01:20:01,939 --> 01:20:00,659

times and there wasn't and then those

1895

01:20:05,720 --> 01:20:01,949

six pages it wasn't one single

1896

01:20:07,280 --> 01:20:05,730

misspelled and Wow so but and they were

1897

01:20:08,899 --> 01:20:07,290

writing it by hand weren't they they

1898

01:20:12,229 --> 01:20:08,909

were there is nothing else there is no

1899

01:20:14,120 --> 01:20:12,239

spellcheck yeah and raisin and so but

1900

01:20:16,339 --> 01:20:14,130

you go back in time and you know we just

1901

01:20:19,790 --> 01:20:16,349

assumed that people weren't as bright

1902

01:20:21,800 --> 01:20:19,800

and and I and I disagree I feel like

1903

01:20:25,010 --> 01:20:21,810

people have been you know just as smart

1904

01:20:26,839 --> 01:20:25,020

and and you know I mean you just for a

1905

01:20:29,419 --> 01:20:26,849

college person to pass a fourth-grade

1906

01:20:32,240 --> 01:20:29,429

test that was 200 years ago maybe

1907

01:20:35,089 --> 01:20:32,250

difficult you know I mean there's yeah

1908

01:20:37,580 --> 01:20:35,099

anyway what I'm getting at is do you

1909

01:20:40,459 --> 01:20:37,590

think there is a trend toward an

1910

01:20:43,490 --> 01:20:40,469

evolutionary trend to actual brain size

1911

01:20:45,859 --> 01:20:43,500

actually growing well

1912

01:20:47,479 --> 01:20:45,869

that's it's a an interesting question

1913

01:20:49,790 --> 01:20:47,489

there's a couple things going on with it

1914

01:20:53,060 --> 01:20:49,800

yes our brains have certainly been

1915

01:20:56,030 --> 01:20:53,070

growing larger over evolutionary time

1916

01:20:58,729 --> 01:20:56,040

and it's an accelerating change over the

1917

01:21:00,290 --> 01:20:58,739

last 800,000 years in particular our

1918

01:21:03,290 --> 01:21:00,300

brains have been getting much bigger

1919

01:21:05,959 --> 01:21:03,300

they've shrunk a little bit over the

1920

01:21:08,629 --> 01:21:05,969

last 10,000 years which is actually just

1921

01:21:13,609 --> 01:21:08,639

a result of our overall body size

1922

01:21:16,339 --> 01:21:13,619

reducing since about 30 25 30 thousand

1923

01:21:18,410 --> 01:21:16,349

years ago across the board almost every

1924

01:21:21,950 --> 01:21:18,420

human group has seen a reduction in body

1925

01:21:24,020 --> 01:21:21,960

size and but what's important to keep in

1926

01:21:26,810 --> 01:21:24,030

mind is it's not just size when it comes

1927

01:21:32,180 --> 01:21:26,820

to the brain in fact a lot of my

1928

01:21:36,620 --> 01:21:32,190

research specifically looks at at MRIs

1929

01:21:39,109 --> 01:21:36,630

and the connections among the brain the

1930

01:21:41,510 --> 01:21:39,119

thickness of different Joey within the

1931

01:21:41,839 --> 01:21:41,520

brain the relationship to I sighs how

1932

01:21:42,770 --> 01:21:41,849

the eye

1933

01:21:44,390 --> 01:21:42,780

really

1934

01:21:47,390 --> 01:21:44,400

it's two different structures within the

1935

01:21:49,250 --> 01:21:47,400

brain as well and one thing I found in

1936

01:21:51,169 --> 01:21:49,260

researching these things is that it's

1937

01:21:53,930 --> 01:21:51,179

almost as far as intelligence goes

1938

01:21:55,970 --> 01:21:53,940

better to have a smaller brain there's

1939

01:21:58,250 --> 01:21:55,980

denser connections it's it's dendritic

1940

01:22:00,290 --> 01:21:58,260

density Wow that really plays into

1941

01:22:03,169 --> 01:22:00,300

intelligence more than just the overall

1942

01:22:06,100 --> 01:22:03,179

size of the brain with that said there's

1943

01:22:09,260 --> 01:22:06,110

no doubt that our increase in brain size

1944

01:22:11,330 --> 01:22:09,270

over the last four to five million years

1945

01:22:13,609 --> 01:22:11,340

in particular and especially in the last

1946

01:22:17,600 --> 01:22:13,619

800,000 years there's no doubt that it's

1947

01:22:19,490 --> 01:22:17,610

correlated with intelligence we can see

1948

01:22:21,770 --> 01:22:19,500

that clearly in our culture and the

1949

01:22:24,319 --> 01:22:21,780

evolution of technology they're very

1950

01:22:26,299 --> 01:22:24,329

intricately linked but in looking at

1951

01:22:29,600 --> 01:22:26,309

differences among modern humans or

1952

01:22:31,370 --> 01:22:29,610

between the sexes or what have you size

1953

01:22:33,140 --> 01:22:31,380

of the brain isn't that important most

1954

01:22:35,510 --> 01:22:33,150

of it comes down to organization of the

1955

01:22:38,540 --> 01:22:35,520

brain the density of the dendritic

1956

01:22:40,459 --> 01:22:38,550

connections the shape and that's the

1957

01:22:42,529 --> 01:22:40,469

main thing to keep in mind as you talked

1958

01:22:43,910 --> 01:22:42,539

about earlier how we define modern

1959

01:22:46,459 --> 01:22:43,920

humans but we actually do have a

1960

01:22:48,979 --> 01:22:46,469

definition for that and the two main

1961

01:22:52,310 --> 01:22:48,989

traits that define anatomically modern

1962

01:22:54,290 --> 01:22:52,320

Homo sapiens sapiens are that globular T

1963

01:22:56,779 --> 01:22:54,300

that I mentioned earlier the rounded

1964

01:22:59,089 --> 01:22:56,789

skull shape where our parietal lobes and

1965

01:23:01,520 --> 01:22:59,099

our temporal lobes have expanded medial

1966

01:23:04,040 --> 01:23:01,530

at earlier from inside out but then also

1967

01:23:06,560 --> 01:23:04,050

a facial retraction to the extent that

1968

01:23:09,979 --> 01:23:06,570

we have a chin or a mental eminence as

1969

01:23:12,229 --> 01:23:09,989

we call it so the chin is actually one

1970

01:23:14,270 --> 01:23:12,239

of the criteria we use and and another

1971

01:23:16,790 --> 01:23:14,280

thing to keep in mind is that we're

1972

01:23:18,740 --> 01:23:16,800

talking about a continuous change so we

1973

01:23:21,350 --> 01:23:18,750

can't necessarily just draw a discreet

1974

01:23:22,879 --> 01:23:21,360

line in this continuum and say now we

1975

01:23:25,490 --> 01:23:22,889

have modern humans that's the first

1976

01:23:27,680 --> 01:23:25,500

person there with a bulbous cranium and

1977

01:23:30,830 --> 01:23:27,690

a chin it doesn't work that way it's a

1978

01:23:33,649 --> 01:23:30,840

continuum so a lot of people like to

1979

01:23:35,600 --> 01:23:33,659

speculate that aliens came down and made

1980

01:23:37,580 --> 01:23:35,610

modern humans or this there's this big

1981

01:23:39,140 --> 01:23:37,590

jump that happened it's just not true

1982

01:23:43,600 --> 01:23:39,150

there's no evidence for that whatsoever

1983

01:23:46,010 --> 01:23:43,610

we see this continuous change but we as

1984

01:23:48,410 --> 01:23:46,020

anthropologists have to have some

1985

01:23:51,439 --> 01:23:48,420

criteria with which to mark that change

1986

01:23:53,810 --> 01:23:51,449

or mark that new form and those are the

1987

01:23:56,270 --> 01:23:53,820

two main characteristics we use so so it

1988

01:23:56,650 --> 01:23:56,280

answer your question size of the brain

1989

01:23:59,770 --> 01:23:56,660

what

1990

01:24:02,610 --> 01:23:59,780

happens from now on isn't as important

1991

01:24:06,250 --> 01:24:02,620

as what shape changes take place and how

1992

01:24:08,380 --> 01:24:06,260

those shape changes are associated with

1993

01:24:11,170 --> 01:24:08,390

other characteristics in the face and

1994

01:24:13,990 --> 01:24:11,180

the body in the context of neoteny paedo

1995

01:24:15,970 --> 01:24:14,000

morphosis retaining juvenile eyes traits

1996

01:24:20,110 --> 01:24:15,980

into adulthood is a big part of the

1997

01:24:21,640 --> 01:24:20,120

shape change that we see and and so so

1998

01:24:25,390 --> 01:24:21,650

yeah brain size is important has been

1999

01:24:28,240 --> 01:24:25,400

important but it's it's really more

2000

01:24:31,180 --> 01:24:28,250

about how our brains are connected

2001

01:24:33,010 --> 01:24:31,190

what's going on inside them and at least

2002

01:24:35,380 --> 01:24:33,020

in the sense of what we see from the

2003

01:24:39,850 --> 01:24:35,390

outside what that overall shape of the

2004

01:24:42,430 --> 01:24:39,860

brain is it's um oh this is probably

2005

01:24:44,710 --> 01:24:42,440

kind of a bizarre question but is there

2006

01:24:46,690 --> 01:24:44,720

those are my favorite kinds of questions

2007

01:24:49,120 --> 01:24:46,700

just so you know okay

2008

01:24:53,110 --> 01:24:49,130

is there a part of the brain that could

2009

01:24:56,500 --> 01:24:53,120

develop enough or has there ever been

2010

01:24:58,630 --> 01:24:56,510

any research into what makes someone be

2011

01:25:03,700 --> 01:24:58,640

able to have telepathy you you know to

2012

01:25:05,970 --> 01:25:03,710

send like a telepathic message is there

2013

01:25:10,170 --> 01:25:05,980

part of the brain that that would

2014

01:25:13,300 --> 01:25:10,180

originate or start to develop or could

2015

01:25:16,120 --> 01:25:13,310

that actually it's really funny you

2016

01:25:19,360 --> 01:25:16,130

mentioned that is the subject of my next

2017

01:25:22,680 --> 01:25:19,370

research project what I I would I I

2018

01:25:25,420 --> 01:25:22,690

would really like to know that too and I

2019

01:25:30,330 --> 01:25:25,430

just actually agreed to co-author a book

2020

01:25:32,830 --> 01:25:30,340

with another PhD who also has a very

2021

01:25:35,920 --> 01:25:32,840

very deep interest in this and for a

2022

01:25:37,930 --> 01:25:35,930

very good reason and and we've talked a

2023

01:25:43,480 --> 01:25:37,940

lot about consciousness and telepathy

2024

01:25:46,620 --> 01:25:43,490

and lucid dreaming and teleport a do it

2025

01:25:49,000 --> 01:25:46,630

but the you it was mentioned earlier

2026

01:25:52,720 --> 01:25:49,010

alejandro mentioned it in his news

2027

01:25:54,880 --> 01:25:52,730

report the remote viewing yes people

2028

01:25:56,830 --> 01:25:54,890

people claim to be able to do this and

2029

01:25:58,480 --> 01:25:56,840

there's a lot of evidence that you know

2030

01:26:02,500 --> 01:25:58,490

some people are actually doing these

2031

01:26:05,320 --> 01:26:02,510

things so yeah we're planning to

2032

01:26:06,820 --> 01:26:05,330

research that more to my knowledge no

2033

01:26:09,360 --> 01:26:06,830

it's one of this it's one of these

2034

01:26:11,850 --> 01:26:09,370

things that much like study

2035

01:26:13,980 --> 01:26:11,860

UFOs are talking about UFOs and aliens

2036

01:26:16,170 --> 01:26:13,990

just instantly gets you nowhere in

2037

01:26:17,970 --> 01:26:16,180

academia yeah there's there's a lot of

2038

01:26:19,560 --> 01:26:17,980

people that have research that don't get

2039

01:26:22,230 --> 01:26:19,570

me wrong but at least in the sense of

2040

01:26:24,660 --> 01:26:22,240

getting grant money to do functional MRI

2041

01:26:27,150 --> 01:26:24,670

analyses of which part of the brain is

2042

01:26:29,850 --> 01:26:27,160

fiery and when someone is remote viewing

2043

01:26:31,860 --> 01:26:29,860

or connecting with another brain

2044

01:26:34,530 --> 01:26:31,870

telepathically I think there's a lot of

2045

01:26:36,930 --> 01:26:34,540

a lot of room to move about the cabin

2046

01:26:39,420 --> 01:26:36,940

and there's a lot of research that could

2047

01:26:41,850 --> 01:26:39,430

help us with actual testable hypotheses

2048

01:26:44,580 --> 01:26:41,860

like I mentioned before it's important

2049

01:26:46,290 --> 01:26:44,590

in doing these things to work within the

2050

01:26:48,390 --> 01:26:46,300

scientific method and to develop

2051
01:26:50,550 --> 01:26:48,400
testable hypotheses and data collection

2052
01:26:52,560 --> 01:26:50,560
and and I'd like to continue with that

2053
01:26:54,270 --> 01:26:52,570
in this research and that to me is the

2054
01:26:57,450 --> 01:26:54,280
next big question is to understand

2055
01:26:59,610 --> 01:26:57,460
consciousness and to understand people's

2056
01:27:02,880 --> 01:26:59,620
psychic abilities certain people have

2057
01:27:05,160 --> 01:27:02,890
real abilities to tell what's going to

2058
01:27:07,890 --> 01:27:05,170
happen in some capacity or another and

2059
01:27:10,860 --> 01:27:07,900
in telepathy I think is just a big part

2060
01:27:13,380 --> 01:27:10,870
of that overarching aspect of

2061
01:27:16,110 --> 01:27:13,390
consciousness that I think is something

2062
01:27:19,020 --> 01:27:16,120
that the humanity should certainly be

2063
01:27:20,850 --> 01:27:19,030

looking into more yeah yeah it certainly

2064

01:27:23,850 --> 01:27:20,860

would save a lot of time and you know

2065

01:27:25,740 --> 01:27:23,860

together cellphones and all that well as

2066

01:27:27,900 --> 01:27:25,750

someone pointed out previously though it

2067

01:27:30,120 --> 01:27:27,910

would make podcasters jobs somewhat

2068

01:27:34,320 --> 01:27:30,130

difficult you know how do you do your

2069

01:27:39,060 --> 01:27:34,330

job if everyone's communicating that's

2070

01:27:42,300 --> 01:27:39,070

right yeah so tune in to the noggin

2071

01:27:43,470 --> 01:27:42,310

yeah this brainwave this frequency yeah

2072

01:27:45,900 --> 01:27:43,480

yeah that's pretty funny

2073

01:27:48,960 --> 01:27:45,910

so I do want to let you know that I did

2074

01:27:51,600 --> 01:27:48,970

put the phone number up we are accepting

2075

01:27:54,390 --> 01:27:51,610

calls for those of you over at kgr a

2076

01:27:58,590 --> 01:27:54,400

radio write this number down it's six

2077

01:28:00,240 --> 01:27:58,600

zero three nine six seven four o3o if

2078

01:28:04,710 --> 01:28:00,250

anyone would like to give us a jingle

2079

01:28:07,680 --> 01:28:04,720

and I got a question for four doctoral

2080

01:28:10,620 --> 01:28:07,690

masters so feel free to give us a call I

2081

01:28:13,500 --> 01:28:10,630

think it's to me this is a very

2082

01:28:14,820 --> 01:28:13,510

fascinating topic it's a little you do

2083

01:28:17,070 --> 01:28:14,830

you mind if I plug the book oh

2084

01:28:19,680 --> 01:28:17,080

absolutely go right to it yes well the

2085

01:28:22,560 --> 01:28:19,690

name of the book is identified flying

2086

01:28:23,310 --> 01:28:22,570

objects a multidisciplinary scientific

2087

01:28:25,950 --> 01:28:23,320

approach to the

2088

01:28:29,580 --> 01:28:25,960

UFO phenomenon and it's available in all

2089

01:28:33,060 --> 01:28:29,590

major platforms the websites probably

2090

01:28:34,770 --> 01:28:33,070

the best place to find places to

2091

01:28:37,770 --> 01:28:34,780

purchase it or to find out more

2092

01:28:40,350 --> 01:28:37,780

information or talks I think it came up

2093

01:28:42,750 --> 01:28:40,360

earlier that I'd be at the International

2094

01:28:44,939 --> 01:28:42,760

UFO Congress and Phoenix in September

2095

01:28:46,609 --> 01:28:44,949

I'll be speaking at the MUFON 50th

2096

01:28:50,160 --> 01:28:46,619

anniversary event in Irvine California

2097

01:28:52,919 --> 01:28:50,170

on in late July

2098

01:28:54,510 --> 01:28:52,929

so there's yeah there's a lot going on

2099

01:28:56,399 --> 01:28:54,520

there's a lot of moving bits and pieces

2100

01:28:58,410 --> 01:28:56,409

and like I've said from the beginning

2101

01:29:01,229 --> 01:28:58,420

it's just an evolving process an

2102

01:29:03,089 --> 01:29:01,239

evolving project and doing things like

2103

01:29:05,609 --> 01:29:03,099

this having conversations with you right

2104

01:29:09,060 --> 01:29:05,619

now is a very important part of that

2105

01:29:11,669 --> 01:29:09,070

yeah yeah I would put the I've actually

2106

01:29:14,939 --> 01:29:11,679

got bumped off of YouTube monetization

2107

01:29:17,250 --> 01:29:14,949

actually when I put a cover of a book up

2108

01:29:20,100 --> 01:29:17,260

so I can't do that anymore but it is

2109

01:29:22,530 --> 01:29:20,110

easy to find on Amazon or actually you

2110

01:29:24,660 --> 01:29:22,540

have as you mentioned your website which

2111

01:29:26,459 --> 01:29:24,670

actually stands for identified objects

2112

01:29:29,459 --> 01:29:26,469

right is that what yeah yeah it's just a

2113

01:29:33,899 --> 01:29:29,469

shortened version of the book I'd fly up

2114

01:29:36,419 --> 01:29:33,909

calm IDF oh why obj which in retrospect

2115

01:29:38,819 --> 01:29:36,429

I was on coast to coast and and George

2116

01:29:40,859 --> 01:29:38,829

Noory was you know doing the whole ship

2117

01:29:43,290 --> 01:29:40,869

EO and he looks like and his website is

2118

01:29:45,930 --> 01:29:43,300

just a random string of numbers all

2119

01:29:48,240 --> 01:29:45,940

right we'll be right back string of

2120

01:29:49,740 --> 01:29:48,250

letters he said I was like ah yeah he's

2121

01:29:51,660 --> 01:29:49,750

right I prize should have done something

2122

01:29:54,629 --> 01:29:51,670

else but I fo was taken I couldn't use

2123

01:30:00,479 --> 01:29:54,639

IFO and I was that was the next best

2124

01:30:02,160 --> 01:30:00,489

idea in my mind is I'd fly aab jao he

2125

01:30:05,760 --> 01:30:02,170

called me out and he you know Strauss

2126
01:30:07,859 --> 01:30:05,770
what are you doing so yeah well again

2127
01:30:14,010 --> 01:30:07,869
the lines open if anyone like to call in

2128
01:30:17,459 --> 01:30:14,020
and so on as far as the future traits of

2129
01:30:19,700 --> 01:30:17,469
the human anatomy you said a lot of it

2130
01:30:23,250 --> 01:30:19,710
is a lot of it is shaped around

2131
01:30:26,850 --> 01:30:23,260
environment I know you know food supply

2132
01:30:30,569 --> 01:30:26,860
the food and all that but do you think

2133
01:30:32,640 --> 01:30:30,579
that we're I you know I was talking

2134
01:30:34,770 --> 01:30:32,650
really about intelligence and you know

2135
01:30:36,710 --> 01:30:34,780
some I've heard people say this and I

2136
01:30:39,050 --> 01:30:36,720
don't know just people talking whatever

2137
01:30:41,570 --> 01:30:39,060
they say people are getting less

2138
01:30:44,660 --> 01:30:41,580

intelligent is is there there's no way

2139

01:30:46,730 --> 01:30:44,670

to track that that's not really

2140

01:30:49,340 --> 01:30:46,740

happening is it that you're aware of oh

2141

01:30:51,260 --> 01:30:49,350

no there's tons of ways to track that

2142

01:30:54,890 --> 01:30:51,270

absolutely I mean we do all the time

2143

01:30:57,560 --> 01:30:54,900

yeah any time you see any quantitative

2144

01:30:59,570 --> 01:30:57,570

metric about schools or tests or

2145

01:31:03,560 --> 01:30:59,580

especially because we've standardized

2146

01:31:05,450 --> 01:31:03,570

tests for so long high IQ tests or I

2147

01:31:08,470 --> 01:31:05,460

don't know what the FCC rules are so

2148

01:31:11,420 --> 01:31:08,480

I'll just use a nice term our our bunk

2149

01:31:13,730 --> 01:31:11,430

essentially and were developed for very

2150

01:31:16,250 --> 01:31:13,740

horrible reasons as part of the eugenics

2151
01:31:18,800 --> 01:31:16,260
movement they're very racist no really

2152
01:31:21,910 --> 01:31:18,810
yeah I don't learn much credence to IQ

2153
01:31:23,960 --> 01:31:21,920
tests but there are standard

2154
01:31:25,790 --> 01:31:23,970
standardized tests that are very useful

2155
01:31:28,190 --> 01:31:25,800
and we can compare these across

2156
01:31:31,550 --> 01:31:28,200
different countries across different

2157
01:31:34,220 --> 01:31:31,560
demographic groups obviously different

2158
01:31:37,100 --> 01:31:34,230
ages different ethnicities and whatnot

2159
01:31:39,440 --> 01:31:37,110
and see what our intelligence is like

2160
01:31:41,420 --> 01:31:39,450
and yeah we've been falling by the

2161
01:31:44,630 --> 01:31:41,430
wayside certainly and and as you

2162
01:31:47,060 --> 01:31:44,640
mentioned I think it's important to

2163
01:31:48,800 --> 01:31:47,070

think about this to us we're people

2164

01:31:50,510 --> 01:31:48,810

smarter in the past sure as you

2165

01:31:52,430 --> 01:31:50,520

mentioned they were able to write

2166

01:31:54,410 --> 01:31:52,440

without spelling errors with very

2167

01:31:56,630 --> 01:31:54,420

beautiful handwriting and they took

2168

01:31:58,460 --> 01:31:56,640

their time to do it but what what did

2169

01:32:01,310 --> 01:31:58,470

they really produce and how quickly did

2170

01:32:04,280 --> 01:32:01,320

they produce it but culture builds on

2171

01:32:06,650 --> 01:32:04,290

top of culture and technology builds on

2172

01:32:09,290 --> 01:32:06,660

top of technology and there are people

2173

01:32:11,600 --> 01:32:09,300

that drive that forward were very very

2174

01:32:16,100 --> 01:32:11,610

smart people but it almost sounds like

2175

01:32:19,040 --> 01:32:16,110

you're asking are we as a species or the

2176
01:32:22,070 --> 01:32:19,050
average of humans sort of devolving

2177
01:32:24,140 --> 01:32:22,080
together or getting am i l'm often left

2178
01:32:26,780 --> 01:32:24,150
field there no no that's exactly what I

2179
01:32:29,620 --> 01:32:26,790
was wearing yes yeah and I think a lot

2180
01:32:33,710 --> 01:32:29,630
of that comes down to a couple of things

2181
01:32:35,930 --> 01:32:33,720
this is anecdotal to some extent but

2182
01:32:38,420 --> 01:32:35,940
there is also data to back this up and

2183
01:32:41,480 --> 01:32:38,430
studies to back this up that they're on

2184
01:32:44,660 --> 01:32:41,490
average there are more less intelligent

2185
01:32:46,460 --> 01:32:44,670
people in this country than in the past

2186
01:32:48,650 --> 01:32:46,470
and that could partly be because there

2187
01:32:50,660 --> 01:32:48,660
were fewer people in the past it also

2188
01:32:52,370 --> 01:32:50,670

comes down to birth rates

2189

01:32:54,200 --> 01:32:52,380

among different demographic groups and

2190

01:32:56,979 --> 01:32:54,210

especially those in poverty they tend to

2191

01:32:58,550 --> 01:32:56,989

have more children but that's also

2192

01:33:00,979 --> 01:32:58,560

socio-political that they have less

2193

01:33:05,120 --> 01:33:00,989

access to birth control and less

2194

01:33:07,340 --> 01:33:05,130

education about ways to prevent unwanted

2195

01:33:09,830 --> 01:33:07,350

births there's also more rape and abuse

2196

01:33:14,689 --> 01:33:09,840

and a number of things that play into it

2197

01:33:17,630 --> 01:33:14,699

so so yeah and looking at if we are sort

2198

01:33:20,120 --> 01:33:17,640

of devolving or getting dumber we have

2199

01:33:22,280 --> 01:33:20,130

to also factor into it the economic

2200

01:33:25,790 --> 01:33:22,290

situation and the political situation if

2201

01:33:28,700 --> 01:33:25,800

we're cut access to education health

2202

01:33:30,830 --> 01:33:28,710

care preventive measures then then yeah

2203

01:33:33,560 --> 01:33:30,840

you could definitely see the beginning

2204

01:33:37,669 --> 01:33:33,570

of a trend that would continue to push

2205

01:33:39,500 --> 01:33:37,679

us toward more people that have a lower

2206

01:33:42,250 --> 01:33:39,510

education and therefore less

2207

01:33:45,169 --> 01:33:42,260

intelligence as indicated by these

2208

01:33:50,390 --> 01:33:45,179

standardized tests you know I I myself

2209

01:33:52,820 --> 01:33:50,400

have seen a trend in just what I do

2210

01:33:55,310 --> 01:33:52,830

as far as you know your your phone has

2211

01:33:57,650 --> 01:33:55,320

spellcheck for you now you know there's

2212

01:34:00,530 --> 01:33:57,660

all these little things that calculators

2213

01:34:02,780 --> 01:34:00,540

yeah oh we don't say massive right out

2214

01:34:05,270 --> 01:34:02,790

hand you know right out and really you

2215

01:34:08,750 --> 01:34:05,280

know use your brain for it's so much

2216

01:34:12,800 --> 01:34:08,760

easier to ask Siri or or Alexa whatever

2217

01:34:15,070 --> 01:34:12,810

it is and you know and that that way and

2218

01:34:18,380 --> 01:34:15,080

in that way in particular I can see that

2219

01:34:20,570 --> 01:34:18,390

technology is harmful to us and actually

2220

01:34:22,790 --> 01:34:20,580

but but let me ask you this does that

2221

01:34:25,370 --> 01:34:22,800

does that mean we're Dumber or does that

2222

01:34:28,580 --> 01:34:25,380

mean we're smarter because again on

2223

01:34:30,979 --> 01:34:28,590

average you know regardless of what we

2224

01:34:32,720 --> 01:34:30,989

can do or can't do within our brains

2225

01:34:34,640 --> 01:34:32,730

we're still able to learn this

2226

01:34:36,350 --> 01:34:34,650

technology and we're still able to learn

2227

01:34:39,229 --> 01:34:36,360

how to use these apps and it's

2228

01:34:41,810 --> 01:34:39,239

constantly evolving technology that that

2229

01:34:43,580 --> 01:34:41,820

we have to adapt to and and and even

2230

01:34:46,430 --> 01:34:43,590

though yeah we might be getting Dumber

2231

01:34:49,939 --> 01:34:46,440

and certain segments of the population I

2232

01:34:53,320 --> 01:34:49,949

think we're still we still are required

2233

01:34:55,820 --> 01:34:53,330

to do things that a hundred years ago

2234

01:34:58,280 --> 01:34:55,830

just wouldn't really even be something

2235

01:34:59,870 --> 01:34:58,290

we could conceptualize so I don't know

2236

01:35:01,850 --> 01:34:59,880

it's a tough one I think it's a

2237

01:35:03,740 --> 01:35:01,860

multi-faceted day I'm really glad you

2238

01:35:04,550 --> 01:35:03,750

brought it up actually because it's it's

2239

01:35:06,770 --> 01:35:04,560

something that I

2240

01:35:08,570 --> 01:35:06,780

think we all kind of bounce around in

2241

01:35:10,610 --> 01:35:08,580

our heads and as something we should

2242

01:35:15,200 --> 01:35:10,620

have more of a discussion about yeah

2243

01:35:17,810 --> 01:35:15,210

yeah you know getting back to the topic

2244

01:35:22,670 --> 01:35:17,820

that you know my shows about UFOs

2245

01:35:24,260 --> 01:35:22,680

basically do you think that or is some

2246

01:35:28,070 --> 01:35:24,270

of your thoughts that what people are

2247

01:35:31,340 --> 01:35:28,080

seeing as far as a UFO are actually

2248

01:35:33,530 --> 01:35:31,350

carrying people you know from the future

2249

01:35:36,110 --> 01:35:33,540

to the past or do you think some

2250

01:35:37,670 --> 01:35:36,120

possibly that some of them are is that

2251

01:35:41,060 --> 01:35:37,680

is that kind of your theory that these

2252

01:35:44,450 --> 01:35:41,070

are actually time machines yeah I do I

2253

01:35:47,150 --> 01:35:44,460

that's the main argument and the book is

2254

01:35:51,140 --> 01:35:47,160

that these devices these UFOs themselves

2255

01:35:54,740 --> 01:35:51,150

are the actual time machine and I look

2256

01:35:57,650 --> 01:35:54,750

at like I mentioned earlier some of the

2257

01:36:01,310 --> 01:35:57,660

the early solutions to Einstein's field

2258

01:36:05,240 --> 01:36:01,320

equations and most of them involved some

2259

01:36:07,610 --> 01:36:05,250

sort of rotating cylinder or Silla node

2260

01:36:10,340 --> 01:36:07,620

or a disk many times a disk especially

2261

01:36:12,560 --> 01:36:10,350

in more recent research and the the main

2262

01:36:14,570 --> 01:36:12,570

thing that that happens the main way in

2263

01:36:17,080 --> 01:36:14,580

which you can travel into the past that

2264

01:36:19,640 --> 01:36:17,090

you reorient light cones toward the past

2265

01:36:22,490 --> 01:36:19,650

and a light cone is just all of the

2266

01:36:24,620 --> 01:36:22,500

possibilities with them the speed of

2267

01:36:28,280 --> 01:36:24,630

light within the laws of physics any

2268

01:36:29,930 --> 01:36:28,290

moment radiating out into the future if

2269

01:36:32,960 --> 01:36:29,940

you can imagine beams of light on either

2270

01:36:35,390 --> 01:36:32,970

side it creates this probability layer

2271

01:36:38,030 --> 01:36:35,400

this cone of probabilities which is

2272

01:36:39,410 --> 01:36:38,040

what's known as a light cone but in

2273

01:36:41,510 --> 01:36:39,420

order to travel into the past you have

2274

01:36:44,030 --> 01:36:41,520

to reorient those toward the past you

2275

01:36:47,210 --> 01:36:44,040

have to get them to tip over so that you

2276

01:36:50,930 --> 01:36:47,220

can actually move physically into a past

2277

01:36:52,490 --> 01:36:50,940

period and one of the this has been

2278

01:36:55,130 --> 01:36:52,500

demonstrated many times it's something

2279

01:36:57,950 --> 01:36:55,140

that we understand we can't create it

2280

01:37:00,020 --> 01:36:57,960

yet more recent research actually is

2281

01:37:01,850 --> 01:37:00,030

starting to investigate these things in

2282

01:37:05,060 --> 01:37:01,860

a laboratory setting and look into how

2283

01:37:06,740 --> 01:37:05,070

we create these frame drag lens theory

2284

01:37:09,440 --> 01:37:06,750

and effects to create an actual time

2285

01:37:11,900 --> 01:37:09,450

machine but but they all come down to is

2286

01:37:14,330 --> 01:37:11,910

the rotation or at least a dominant

2287

01:37:18,290 --> 01:37:14,340

theme throughout is the rotation of a

2288

01:37:21,140 --> 01:37:18,300

highly massive or highly energetic disc

2289

01:37:22,510 --> 01:37:21,150

and and if you think about black holes

2290

01:37:26,030 --> 01:37:22,520

the only thing in the known universe

2291

01:37:27,560 --> 01:37:26,040

that can actually send matter back in

2292

01:37:29,320 --> 01:37:27,570

time at the event horizon the

2293

01:37:32,540 --> 01:37:29,330

Schwarzschild radius of a black hole

2294

01:37:34,850 --> 01:37:32,550

that is when it disappears from our four

2295

01:37:36,830 --> 01:37:34,860

dimensions of a spacetime even light

2296

01:37:38,960 --> 01:37:36,840

can't penetrate that event horizon

2297

01:37:41,960 --> 01:37:38,970

because of the massive gravitation and I

2298

01:37:43,780 --> 01:37:41,970

certainly don't think that these UFOs or

2299

01:37:46,820 --> 01:37:43,790

I foes as I call them in the book are

2300

01:37:49,610 --> 01:37:46,830

like black holes that would the tidal

2301

01:37:50,960 --> 01:37:49,620

forces of a black hole and singularity

2302

01:37:55,130 --> 01:37:50,970

associated with it would rip apart

2303

01:37:56,120 --> 01:37:55,140

anything that entered it but a good

2304

01:37:58,010 --> 01:37:56,130

surrogate for that is the

2305

01:37:59,720 --> 01:37:58,020

electromagnetic force and what a lot of

2306

01:38:01,910 --> 01:37:59,730

people don't realize is the

2307

01:38:05,840 --> 01:38:01,920

electromagnetic force is 10 to the 40

2308

01:38:08,030 --> 01:38:05,850

times stronger than gravity we think of

2309

01:38:09,890 --> 01:38:08,040

gravity as this thing that that holds us

2310

01:38:11,780 --> 01:38:09,900

to the earth and it holds the earth to

2311

01:38:14,480 --> 01:38:11,790

the Sun and the moon to the earth and

2312

01:38:16,580 --> 01:38:14,490

and there's an important force of the

2313

01:38:19,130 --> 01:38:16,590

four forces in nature but

2314

01:38:21,320 --> 01:38:19,140

electromagnetism is so much stronger so

2315

01:38:24,440 --> 01:38:21,330

if we could harness that electromagnetic

2316

01:38:27,680 --> 01:38:24,450

force and still create this frame dragon

2317

01:38:29,630 --> 01:38:27,690

effect or this rotational energy that's

2318

01:38:33,110 --> 01:38:29,640

needed to reorient those light cones

2319

01:38:34,910 --> 01:38:33,120

toward the past we could potentially

2320

01:38:37,880 --> 01:38:34,920

create a time machine without having to

2321

01:38:40,100 --> 01:38:37,890

create singularities associated with

2322

01:38:43,250 --> 01:38:40,110

black holes and the physics and particle

2323

01:38:46,550 --> 01:38:43,260

physics involved with that so so yeah an

2324

01:38:49,310 --> 01:38:46,560

idiom a common mantra and biology is

2325

01:38:51,140 --> 01:38:49,320

that form follows function and that

2326

01:38:53,750 --> 01:38:51,150

applies to anything and it certainly

2327

01:38:57,290 --> 01:38:53,760

applies here I think where the form of

2328

01:38:59,750 --> 01:38:57,300

these craft and the properties that they

2329

01:39:04,030 --> 01:38:59,760

have the common description of them

2330

01:39:06,500 --> 01:39:04,040

being disk-like and having rotating

2331

01:39:09,170 --> 01:39:06,510

could facilitate the function of

2332

01:39:12,140 --> 01:39:09,180

backward time travel so yeah I really do

2333

01:39:14,210 --> 01:39:12,150

believe and I feel like I make a strong

2334

01:39:16,180 --> 01:39:14,220

argument for this on the book that these

2335

01:39:20,860 --> 01:39:16,190

are the actual time machines themselves

2336

01:39:24,220 --> 01:39:20,870

Wow amazing so and the Foo Fighters

2337

01:39:26,510 --> 01:39:24,230

mostly were orbs so that that doesn't

2338

01:39:28,400 --> 01:39:26,520

that doesn't kind of follow that same

2339

01:39:31,400 --> 01:39:28,410

line you know I mean mostly what people

2340

01:39:32,180 --> 01:39:31,410

were seeing or no no I'd like to address

2341

01:39:34,460 --> 01:39:32,190

that yeah

2342

01:39:38,120 --> 01:39:34,470

he actually is I don't I don't think all

2343

01:39:40,940 --> 01:39:38,130

of them arm there are things like like

2344

01:39:44,870 --> 01:39:40,950

what was described recently the the cube

2345

01:39:47,570 --> 01:39:44,880

and orb or the something like that

2346

01:39:51,470 --> 01:39:47,580

I've been shown images of things that

2347

01:39:54,350 --> 01:39:51,480

appear to be drones that aren't that

2348

01:39:57,220 --> 01:39:54,360

certainly aren't time machines many of

2349

01:40:01,250 --> 01:39:57,230

them are more circular but the actual

2350

01:40:03,290 --> 01:40:01,260

craft that the large I hate to use this

2351

01:40:07,130 --> 01:40:03,300

word cuz it's so cliché but mothership

2352

01:40:09,080 --> 01:40:07,140

to hit craft they do seem to have the

2353

01:40:11,990 --> 01:40:09,090

capacity what comes out of those to do

2354

01:40:14,240 --> 01:40:12,000

whatever sort of thing is happening

2355

01:40:15,920 --> 01:40:14,250

obviously you're not just gonna take

2356

01:40:17,420 --> 01:40:15,930

that down in someone's bedroom and see

2357

01:40:18,920 --> 01:40:17,430

if you can get in there to abduct them

2358

01:40:21,860 --> 01:40:18,930

at that time you're gonna send a little

2359

01:40:24,320 --> 01:40:21,870

a little probe a little drone type thing

2360

01:40:27,140 --> 01:40:24,330

so I think a lot of the UFO phenomenon

2361

01:40:29,600 --> 01:40:27,150

is people observing those types of

2362

01:40:32,210 --> 01:40:29,610

things that are being sent out by our

2363

01:40:35,140 --> 01:40:32,220

time-traveling descendants in order to

2364

01:40:37,610 --> 01:40:35,150

do the research pick up a couple people

2365

01:40:40,610 --> 01:40:37,620

do their bio medical examination then

2366

01:40:43,130 --> 01:40:40,620

return to their own time without having

2367

01:40:45,920 --> 01:40:43,140

to really be there and hovering over

2368

01:40:47,960 --> 01:40:45,930

large metropolitan area so I think a lot

2369

01:40:49,550 --> 01:40:47,970

of the UFO phenomenon is just what

2370

01:40:55,520 --> 01:40:49,560

they're sending out as part of their

2371

01:40:58,730 --> 01:40:55,530

research mission well well and care to

2372

01:41:00,230 --> 01:40:58,740

speculate how many thousands and

2373

01:41:05,210 --> 01:41:00,240

thousands of years in the future you

2374

01:41:08,870 --> 01:41:05,220

think that this could I hate speculating

2375

01:41:12,530 --> 01:41:08,880

about that however to be fair I was just

2376

01:41:14,540 --> 01:41:12,540

talking about being on coast to coast a

2377

01:41:15,140 --> 01:41:14,550

couple months ago and George Noory made

2378

01:41:17,960 --> 01:41:15,150

me do it

2379

01:41:20,420 --> 01:41:17,970

he wouldn't he wouldn't go to commercial

2380

01:41:21,830 --> 01:41:20,430

really until I visit so so if I do it

2381

01:41:23,360 --> 01:41:21,840

for George Noory I feel like I should

2382

01:41:25,930 --> 01:41:23,370

have to do it for everyone last that

2383

01:41:31,570 --> 01:41:25,940

question but but the number I gave him

2384

01:41:35,570 --> 01:41:31,580

it was I think around I think around

2385

01:41:36,740 --> 01:41:35,580

20,000 years yes and that's again that's

2386

01:41:39,140 --> 01:41:36,750

not that oh really

2387

01:41:41,690 --> 01:41:39,150

but again it's also complicated because

2388

01:41:43,310 --> 01:41:41,700

we could potentially have the technology

2389

01:41:45,410 --> 01:41:43,320

to do this in a couple thousand years

2390

01:41:45,980 --> 01:41:45,420

but we will also wouldn't expect to see

2391

01:41:47,450 --> 01:41:45,990

people

2392

01:41:49,040 --> 01:41:47,460

from that time because they likely

2393

01:41:50,540 --> 01:41:49,050

already have records of what happened

2394

01:41:53,060 --> 01:41:50,550

and we wouldn't be that interesting

2395

01:41:56,560 --> 01:41:53,070

there's no real incentive to do it so I

2396

01:41:59,180 --> 01:41:56,570

think the vast majority of accounts

2397

01:42:03,020 --> 01:41:59,190

abduction accounts and whatnot where we

2398

01:42:05,030 --> 01:42:03,030

see these more evolved humans list with

2399

01:42:08,780 --> 01:42:05,040

still very hominin traits but slightly

2400

01:42:11,810 --> 01:42:08,790

derived versions of them based on those

2401
01:42:14,420 --> 01:42:11,820
is where I get that twenty thousand year

2402
01:42:17,270 --> 01:42:14,430
estimate though I I think the technology

2403
01:42:19,510 --> 01:42:17,280
will probably be available before that

2404
01:42:21,500 --> 01:42:19,520
it just won't be used for this

2405
01:42:23,690 --> 01:42:21,510
necessarily and it's important to keep

2406
01:42:25,760 --> 01:42:23,700
in mind too that once that technology

2407
01:42:27,730 --> 01:42:25,770
exists as I mentioned earlier in the

2408
01:42:30,860 --> 01:42:27,740
context of Novikov self-consistency

2409
01:42:33,140 --> 01:42:30,870
principle none of these things are ahead

2410
01:42:35,480 --> 01:42:33,150
of her behind the other once that time

2411
01:42:39,650 --> 01:42:35,490
machine is developed so there could

2412
01:42:41,510 --> 01:42:39,660
potentially be an IFO chocked full of

2413
01:42:44,600 --> 01:42:41,520

our future humans who actually have the

2414

01:42:47,720 --> 01:42:44,610

technology who went back and picked up a

2415

01:42:49,130 --> 01:42:47,730

bunch of Neanderthals and maybe they

2416

01:42:50,960 --> 01:42:49,140

dropped some off just to mess with us

2417

01:42:53,540 --> 01:42:50,970

and that's where the Bigfoot Sasquatch

2418

01:42:55,670 --> 01:42:53,550

thing comes from they picked them up in

2419

01:42:57,440 --> 01:42:55,680

the past they come back and get a couple

2420

01:42:59,420 --> 01:42:57,450

humans from a thousand years in the

2421

01:43:01,130 --> 01:42:59,430

future and then you know some major

2422

01:43:03,740 --> 01:43:01,140

celebrity just because it's funny and

2423

01:43:06,830 --> 01:43:03,750

then pick us up and we're looking at

2424

01:43:08,840 --> 01:43:06,840

this whole spectrum of human evolution

2425

01:43:10,640 --> 01:43:08,850

because they have the technology to do

2426

01:43:12,350 --> 01:43:10,650

that so so I think it's important that

2427

01:43:13,940 --> 01:43:12,360

even you know when I throw out this

2428

01:43:16,130 --> 01:43:13,950

arbitrary number Akali ously have no

2429

01:43:18,850 --> 01:43:16,140

idea I'm just speculating but based on

2430

01:43:21,680 --> 01:43:18,860

those physical traits they seem to be

2431

01:43:23,480 --> 01:43:21,690

from a period in our future that

2432

01:43:25,070 --> 01:43:23,490

somewhat consistent with twenty thousand

2433

01:43:28,190 --> 01:43:25,080

to fifteen thousand fifty thousand years

2434

01:43:30,380 --> 01:43:28,200

but anybody could be in there they can

2435

01:43:32,960 --> 01:43:30,390

pick up anybody they want within the

2436

01:43:35,810 --> 01:43:32,970

limits of what their craft can do within

2437

01:43:39,200 --> 01:43:35,820

the limits of when the earliest point

2438

01:43:41,630 --> 01:43:39,210

their craft can reach so I I think we

2439

01:43:44,150 --> 01:43:41,640

need to still consider a listicle II and

2440

01:43:46,550 --> 01:43:44,160

think about the whole of space-time and

2441

01:43:48,920 --> 01:43:46,560

not just when they might be coming from

2442

01:43:51,110 --> 01:43:48,930

in the future yeah I'm sure you probably

2443

01:43:53,180 --> 01:43:51,120

caught the headline a few months ago

2444

01:43:55,160 --> 01:43:53,190

where it said major breakthrough and

2445

01:43:57,720 --> 01:43:55,170

time travel and ended up just being

2446

01:44:00,540 --> 01:43:57,730

something with a quantum computer

2447

01:44:03,930 --> 01:44:00,550

and it really I hate this appointing

2448

01:44:08,760 --> 01:44:03,940

wait it was yeah there is a question in

2449

01:44:12,510 --> 01:44:08,770

the chat room Constantini Asst that's

2450

01:44:17,250 --> 01:44:12,520

the screen name have you ever come in

2451

01:44:19,440 --> 01:44:17,260

contact with Bashar bas har Bashar

2452

01:44:22,680 --> 01:44:19,450

shares the same concept of them being

2453

01:44:25,490 --> 01:44:22,690

descendants thus from the future

2454

01:44:29,760 --> 01:44:25,500

did you are you aware of that name or

2455

01:44:32,570 --> 01:44:29,770

I'm not but I I would like to respond to

2456

01:44:35,100 --> 01:44:32,580

that question by saying that I have been

2457

01:44:38,370 --> 01:44:35,110

really excited about how many people

2458

01:44:42,440 --> 01:44:38,380

have also thought of this and I've also

2459

01:44:45,240 --> 01:44:42,450

research this tremendously and and I

2460

01:44:47,130 --> 01:44:45,250

plan on looking this person up as well

2461

01:44:49,530 --> 01:44:47,140

because what I've also found is that

2462

01:44:53,040 --> 01:44:49,540

we've all come at it with a similar sort

2463

01:44:56,190 --> 01:44:53,050

of reason but with very different things

2464

01:44:58,470 --> 01:44:56,200

to add and and I've always said that you

2465

01:45:00,690 --> 01:44:58,480

know this is an evolving project and I'm

2466

01:45:03,030 --> 01:45:00,700

just trying to put some pieces of the

2467

01:45:05,550 --> 01:45:03,040

puzzle and where they might fit and then

2468

01:45:07,140 --> 01:45:05,560

hopefully start more dialogue and more

2469

01:45:09,060 --> 01:45:07,150

conversation especially among my

2470

01:45:11,280 --> 01:45:09,070

academic peers because this is what

2471

01:45:13,130 --> 01:45:11,290

science is supposed to be is asking

2472

01:45:16,800 --> 01:45:13,140

questions about things that are unknown

2473

01:45:18,810 --> 01:45:16,810

so I I would hope that more people would

2474

01:45:21,270 --> 01:45:18,820

start to look at these questions and

2475

01:45:24,180 --> 01:45:21,280

develop testable hypotheses but but I've

2476
01:45:27,780 --> 01:45:24,190
already been really excited by how many

2477
01:45:30,300 --> 01:45:27,790
other people have have really thought

2478
01:45:32,370 --> 01:45:30,310
about this and in deep terms and I've

2479
01:45:34,220 --> 01:45:32,380
had the chance to talk to many of them

2480
01:45:38,400 --> 01:45:34,230
with really exciting conversations

2481
01:45:40,310 --> 01:45:38,410
actually actually just started signed a

2482
01:45:44,130 --> 01:45:40,320
contract to start working with the TV

2483
01:45:47,520 --> 01:45:44,140
production company with with a couple

2484
01:45:49,380 --> 01:45:47,530
really amazing people who who are

2485
01:45:51,720 --> 01:45:49,390
excited about the project and who have

2486
01:45:55,650 --> 01:45:51,730
also thought about this and I've have

2487
01:45:58,860 --> 01:45:55,660
really been excited to build this and to

2488
01:46:00,690 --> 01:45:58,870

present it in a more means to a more

2489

01:46:02,580 --> 01:46:00,700

mainstream audience I sure hope they

2490

01:46:05,729 --> 01:46:02,590

don't go off the fringe fringe side with

2491

01:46:07,920 --> 01:46:05,739

it to make it more well no no no no no

2492

01:46:10,200 --> 01:46:07,930

we that was the very first thing we

2493

01:46:11,039 --> 01:46:10,210

talked about the very first thing that I

2494

01:46:13,289 --> 01:46:11,049

can do

2495

01:46:15,689 --> 01:46:13,299

by the your your manner in general that

2496

01:46:17,549 --> 01:46:15,699

you would oh my god no I you guys spoke

2497

01:46:20,339 --> 01:46:17,559

about ancient aliens earlier I've been

2498

01:46:24,239 --> 01:46:20,349

contacted by two producers of ancient

2499

01:46:27,119 --> 01:46:24,249

aliens in the last five months and and I

2500

01:46:28,769 --> 01:46:27,129

I hope we can find common ground stinks

2501

01:46:30,959 --> 01:46:28,779

I really would like to be on the show

2502

01:46:33,509 --> 01:46:30,969

but I'm not I'm not gonna sell out my

2503

01:46:35,250 --> 01:46:33,519

integrity good feel I'm not gonna I'm

2504

01:46:38,309 --> 01:46:35,260

not gonna lie I'm not gonna make things

2505

01:46:40,019 --> 01:46:38,319

up and and these guys know that we've

2506

01:46:41,279 --> 01:46:40,029

had some really great discussions and

2507

01:46:42,569 --> 01:46:41,289

I'm really excited to work with them I

2508

01:46:44,459 --> 01:46:42,579

think it'll be phenomenal

2509

01:46:45,869 --> 01:46:44,469

great we do have a caller on the line

2510

01:46:47,689 --> 01:46:45,879

caller your first name where are you

2511

01:46:50,939 --> 01:46:47,699

calling from

2512

01:46:52,979 --> 01:46:50,949

James and I'm in Bellevue Washington

2513

01:46:54,959 --> 01:46:52,989

oh yes James you've called him before

2514

01:46:57,599 --> 01:46:54,969

and you're just kind of a science etype

2515

01:47:02,399 --> 01:46:57,609

guy how are you yes that's right

2516

01:47:06,059 --> 01:47:02,409

yes great show thank you think yeah yeah

2517

01:47:11,159 --> 01:47:06,069

my I really can't wait to read the book

2518

01:47:13,259 --> 01:47:11,169

and and I like the whole idea of the IFO

2519

01:47:17,519 --> 01:47:13,269

so I'm just wondering what your thoughts

2520

01:47:22,319 --> 01:47:17,529

are you know there's such a huge variety

2521

01:47:25,199 --> 01:47:22,329

of descriptions of the various ships you

2522

01:47:28,649 --> 01:47:25,209

know there's triangles and I've heard of

2523

01:47:31,289 --> 01:47:28,659

rectangles and yeah and saucers all of

2524

01:47:33,959 --> 01:47:31,299

that and do you what do you think about

2525

01:47:38,399 --> 01:47:33,969

do you think it is possible that there

2526

01:47:41,159 --> 01:47:38,409

are other you know cultures or species

2527

01:47:43,439 --> 01:47:41,169

that may be visiting or maybe they're

2528

01:47:46,799 --> 01:47:43,449

von Neumann croaked or something along

2529

01:47:48,629 --> 01:47:46,809

those lines yeah that's a great question

2530

01:47:50,909 --> 01:47:48,639

I actually appreciate that question

2531

01:47:53,129 --> 01:47:50,919

because it's something that I didn't

2532

01:47:55,829 --> 01:47:53,139

really go into in much detail on the

2533

01:47:58,559 --> 01:47:55,839

book but I wished I'd had once I

2534

01:48:00,899 --> 01:47:58,569

published it you'll you'll be able to

2535

01:48:02,489 --> 01:48:00,909

see where that should have gone and

2536

01:48:05,219 --> 01:48:02,499

where I wished I would have put it if

2537

01:48:06,869 --> 01:48:05,229

you end up getting it but well one thing

2538

01:48:09,419 --> 01:48:06,879

I would like to mention I don't

2539

01:48:11,129 --> 01:48:09,429

necessarily think that they're they're

2540

01:48:13,079 --> 01:48:11,139

Extra Terrestrial there are different

2541

01:48:15,569 --> 01:48:13,089

shapes absolutely there's the sugar the

2542

01:48:16,889 --> 01:48:15,579

cigar shape is a very common one what I

2543

01:48:18,629 --> 01:48:16,899

personally think and I'm just

2544

01:48:21,629 --> 01:48:18,639

speculating here but what I personally

2545

01:48:25,080 --> 01:48:21,639

think is that the triangle ones are are

2546

01:48:27,209 --> 01:48:25,090

ours are ours now let me talk about

2547

01:48:30,180 --> 01:48:27,219

that well well modern man may because if

2548

01:48:32,010 --> 01:48:30,190

you think about it if they don't have to

2549

01:48:33,810 --> 01:48:32,020

worry about the time travel aspects if

2550

01:48:36,540 --> 01:48:33,820

they don't have to maintain that that

2551

01:48:38,310 --> 01:48:36,550

symmetrical shape and and have a

2552

01:48:40,620 --> 01:48:38,320

material that can withstand not just the

2553

01:48:43,589 --> 01:48:40,630

centrifugal forces but all of the

2554

01:48:45,570 --> 01:48:43,599

kinetic forces and the friction and

2555

01:48:49,200 --> 01:48:45,580

spinning something that fast and with

2556

01:48:51,870 --> 01:48:49,210

that much energy the title yeah exactly

2557

01:48:56,240 --> 01:48:51,880

but the triangles almost seem like a

2558

01:48:58,320 --> 01:48:56,250

primitive attempt by us to use that

2559

01:49:02,160 --> 01:48:58,330

anti-gravity electromagnetic propulsion

2560

01:49:04,350 --> 01:49:02,170

system to still make something that's

2561

01:49:06,320 --> 01:49:04,360

unidentifiable to us because we're used

2562

01:49:09,359 --> 01:49:06,330

to vector propulsion we're used to

2563

01:49:11,700 --> 01:49:09,369

airplanes with jets or helicopters but I

2564

01:49:14,010 --> 01:49:11,710

think the triangles are ours I almost

2565

01:49:16,350 --> 01:49:14,020

think that those have been developed

2566

01:49:18,839 --> 01:49:16,360

perhaps even with technology that was

2567

01:49:20,760 --> 01:49:18,849

acquired during the Roswell crash where

2568

01:49:25,350 --> 01:49:20,770

we reverse engineered and figured out 50

2569

01:49:27,390 --> 01:49:25,360

years is a long time oh we're

2570

01:49:29,580 --> 01:49:27,400

almost there like 70 years now since

2571

01:49:31,760 --> 01:49:29,590

that happened so so that's actually a

2572

01:49:34,169 --> 01:49:31,770

very long time to reverse engineer

2573

01:49:35,339 --> 01:49:34,179

something like that I personally think

2574

01:49:38,280 --> 01:49:35,349

the triangles and again I'm just

2575

01:49:43,290 --> 01:49:38,290

speculating but those shapes where it's

2576

01:49:44,729 --> 01:49:43,300

just about trying to get stability you

2577

01:49:47,310 --> 01:49:44,739

know like if you think about sitting on

2578

01:49:48,839 --> 01:49:47,320

your chair you have three legs

2579

01:49:50,280 --> 01:49:48,849

you're gonna wobble in three different

2580

01:49:52,830 --> 01:49:50,290

directions you have for your better

2581

01:49:54,330 --> 01:49:52,840

situated for that so that takes some of

2582

01:49:56,100 --> 01:49:54,340

the variables out of it where it's not a

2583

01:49:57,839 --> 01:49:56,110

rotational thing it's not like trying to

2584

01:50:00,930 --> 01:49:57,849

maintain a rotating frisbee in the air

2585

01:50:02,399 --> 01:50:00,940

but it's just these these three places

2586

01:50:05,430 --> 01:50:02,409

where you have to control those

2587

01:50:07,290 --> 01:50:05,440

independently well I would I'm actually

2588

01:50:09,629 --> 01:50:07,300

gonna have to cut this short but because

2589

01:50:12,240 --> 01:50:09,639

we are out of time and thanks for the

2590

01:50:14,070 --> 01:50:12,250

call well alright thanks for the call

2591

01:50:17,760 --> 01:50:14,080

thanks James and I wish I had longer

2592

01:50:19,470 --> 01:50:17,770

time to argue the triangular thank you f

2593

01:50:21,570 --> 01:50:19,480

up with you I'd still like to hear your

2594

01:50:22,589 --> 01:50:21,580

idea okay well hang on don't surly you

2595

01:50:24,540 --> 01:50:22,599

give me cliff notes

2596

01:50:26,550 --> 01:50:24,550

okay wait don't go away stay on Skype

2597

01:50:28,979 --> 01:50:26,560

for a minute and this is going to be at

2598

01:50:30,780 --> 01:50:28,989

the end of the show again I want to

2599

01:50:33,089 --> 01:50:30,790

thank everyone for helping out with the

2600

01:50:34,500 --> 01:50:33,099

show and Alejandro and the first at the

2601
01:50:36,570 --> 01:50:34,510
first part of the show and a guest of

2602
01:50:38,770 --> 01:50:36,580
course dr. Michael masters you can get

2603
01:50:41,980 --> 01:50:38,780
his book check it out on

2604
01:50:44,470 --> 01:50:41,990
go ahead and throw that website out

2605
01:50:46,150 --> 01:50:44,480
there one more time if you would I'd fly

2606
01:50:51,160 --> 01:50:46,160
up come

2607
01:50:52,780 --> 01:50:51,170
I do fo y obj okay since you are on and

2608
01:50:54,670 --> 01:50:52,790
I'm asking you to stay on there's going

2609
01:50:57,010 --> 01:50:54,680
to be an outro you're not gonna hear it

2610
01:50:59,590 --> 01:50:57,020
so you're just gonna have to hang in

2611
01:51:01,450 --> 01:50:59,600
there and not make any choices because

2612
01:51:04,740 --> 01:51:01,460
we're gonna go into it so thanks so much

2613
01:51:07,450 --> 01:51:04,750

for everyone everyone for listening and

2614

01:51:09,670 --> 01:51:07,460

we'll see you next week I'm not sure who