

APRIL 15, 2020 **LIVE**

10:00 PM EST | 08:00 PM MST | 07:00 PM PST

RANDALL CARLSON
SPECIAL GUEST

F2B
with Jimmy Church



#F2B JIMMYCHURCHRADIO.COM

1
00:02:18,900 --> 00:02:16,060
this hope radio for the masses Atlanta

2
00:02:20,640 --> 00:02:18,910
this new variety might been for a felony

3
00:02:23,310 --> 00:02:20,650
beyond the airforce Rezanov been

4
00:02:25,590 --> 00:02:23,320
applying this - found and is now in the

5
00:02:29,240 --> 00:02:25,600
possession of the army the game is

6
00:02:31,970 --> 00:02:29,250
rigged change the game GameChanger

7
00:02:36,290 --> 00:02:31,980
I occasionally think how quickly our

8
00:02:38,930 --> 00:02:36,300
differences worldwide would vanish if we

9
00:02:44,680 --> 00:02:38,940
were facing an alien threat from outside

10
00:02:50,380 --> 00:02:47,410
this is baked and black with your host

11
00:02:53,350 --> 00:02:50,390
Jimmy church on the game-changer Radio

12
00:02:58,730 --> 00:02:53,360
Network and K GRA the Global Radio

13
00:02:58,740 --> 00:03:06,240

year 1980

14

00:03:10,560 --> 00:03:08,430
you listening to fade to black with

15

00:03:15,910 --> 00:03:10,570
Jimmy judge on the game change in that

16

00:03:15,920 --> 00:03:19,660
good evening

17

00:03:22,980 --> 00:03:22,970
fade to black

18

00:03:31,309 --> 00:03:26,410
the spoke radio

19

00:03:49,700 --> 00:03:41,089
mass's yeah today's Wednesday April 15th

20

00:03:59,250 --> 00:03:54,690
106 days into the new year just 270 days

21

00:04:01,620 --> 00:03:59,260
left we are live from a bunker a bunker

22

00:04:02,970 --> 00:04:01,630
that is somewhere in the middle of

23

00:04:04,559 --> 00:04:02,980
beautiful downtown Burbank California

24

00:04:07,710 --> 00:04:04,569
and I would like to welcome everybody

25

00:04:11,890 --> 00:04:07,720
listening all around the world across

26

00:04:18,280 --> 00:04:16,180

hither and thither to and fro back and

27

00:04:22,980 --> 00:04:18,290

forth up and down east and west north

28

00:04:29,490 --> 00:04:26,180

this is faith Blackford kjc are the

29

00:04:32,439 --> 00:04:29,500

game-changer network and kg are eight

30

00:04:36,719 --> 00:04:32,449

planets

31

00:04:41,390 --> 00:04:36,729

I'm your host Jimmy Church what is

32

00:04:44,800 --> 00:04:41,400

cracking how you do it

33

00:04:48,460 --> 00:04:44,810

are you through now

34

00:04:51,430 --> 00:04:48,470

tonight's the night look great week

35

00:04:56,200 --> 00:04:51,440

right great week Adam Apollo Laura

36

00:05:01,710 --> 00:04:56,210

Geller tonight Randall Carlson the beard

37

00:05:06,400 --> 00:05:01,720

of knowledge man I cannot wait for this

38

00:05:08,440 --> 00:05:06,410

Randall if we go back you know we turn

39

00:05:12,690 --> 00:05:08,450

back time a little bit let's go back

40

00:05:17,680 --> 00:05:12,700

four or five years and and Randall's

41

00:05:21,730 --> 00:05:17,690

absolute explosion into the world of

42

00:05:24,340 --> 00:05:21,740

knowledge is it's been so much fun to

43

00:05:29,320 --> 00:05:24,350

watch and he's such a talented guy and

44

00:05:32,080 --> 00:05:29,330

for him to be a part of this show is it

45

00:05:33,880 --> 00:05:32,090

just means a lot and and speaking to him

46

00:05:36,280 --> 00:05:33,890

today you know yeah you know it's just

47

00:05:36,909 --> 00:05:36,290

speaking to him this week but speaking

48

00:05:40,270 --> 00:05:36,919

to him today

49

00:05:42,159 --> 00:05:40,280

man he is so excited to be here and to

50

00:05:45,400 --> 00:05:42,169

hang out with all of you and there's

51
00:05:47,379 --> 00:05:45,410
nothing cooler to hear Randall Carlson

52
00:05:49,030 --> 00:05:47,389
say man I can't wait to be on tonight

53
00:05:53,020 --> 00:05:49,040
with you and the fader knots

54
00:05:56,100 --> 00:05:53,030
it's like that's what I'm talking about

55
00:05:58,690 --> 00:05:56,110
Randall Carlson is here tonight and

56
00:06:00,310 --> 00:05:58,700
where we are going tonight now we've

57
00:06:03,610 --> 00:06:00,320
done so many different shows with

58
00:06:09,790 --> 00:06:03,620
Randall we've done we did a presentation

59
00:06:14,080 --> 00:06:09,800
a virtual seminar geometry and sacred

60
00:06:17,680 --> 00:06:14,090
geometry we've gone back and and talked

61
00:06:20,620 --> 00:06:17,690
about different periods of civilization

62
00:06:22,330 --> 00:06:20,630
and life on this planet and changes done

63
00:06:25,090 --> 00:06:22,340

that a couple of different times with

64

00:06:30,159 --> 00:06:25,100

different focuses on different timelines

65

00:06:33,370 --> 00:06:30,169

and we've done huge conversations on

66

00:06:35,520 --> 00:06:33,380

Egypt and megalithic structures where we

67

00:06:38,860 --> 00:06:35,530

said I spent an entire show on that

68

00:06:42,580 --> 00:06:38,870

tonight we're going in a completely

69

00:06:45,300 --> 00:06:42,590

different direction yeah that's right

70

00:06:48,490 --> 00:06:45,310

and you know and this is what's great

71

00:06:53,529 --> 00:06:48,500

I'm just gonna let everybody know okay

72

00:06:57,090 --> 00:06:53,539

just listen to me Randall and I just

73

00:07:01,860 --> 00:06:57,100

have a conversation that

74

00:07:04,260 --> 00:07:01,870

Syd I picked out one word and he said

75

00:07:06,750 --> 00:07:04,270

Jimmy that's perfect that's that's all I

76

00:07:08,040 --> 00:07:06,760

need I need that one word right that's

77

00:07:16,770 --> 00:07:08,050

it

78

00:07:18,450 --> 00:07:16,780

there bottom of the hour Randall Carlson

79

00:07:24,210 --> 00:07:18,460

tomorrow night right here on this

80

00:07:29,030 --> 00:07:24,220

program Thursday Fator night open lines

81

00:07:33,600 --> 00:07:29,040

all night long man I'm looking at

82

00:07:37,020 --> 00:07:33,610

looking at Twitter and mark Dunbar just

83

00:07:42,840 --> 00:07:37,030

posted a video it's a gift and it looks

84

00:07:46,770 --> 00:07:42,850

like is that is that Kenny G on a subway

85

00:07:55,860 --> 00:07:46,780

that looks like everybody go take a look

86

00:08:00,960 --> 00:07:55,870

at this is that Kenny G just say is that

87

00:08:04,500 --> 00:08:00,970

Kenny G go check that out follow me on

88

00:08:08,070 --> 00:08:04,510

Twitter right JT radio hashtag F to be

89

00:08:09,930 --> 00:08:08,080

is the sad box everybody is is right

90

00:08:13,560 --> 00:08:09,940

there in the sandbox they can see that

91

00:08:16,800 --> 00:08:13,570

video it's posted right there and just

92

00:08:20,490 --> 00:08:16,810

check that out in between Spock and the

93

00:08:26,160 --> 00:08:20,500

dude lifting weights lifting the books

94

00:08:28,230 --> 00:08:26,170

is that Kenny G Oh bad

95

00:08:30,120 --> 00:08:28,240

all right I just forgot everything that

96

00:08:31,140 --> 00:08:30,130

I was doing tonight hashtag F to be is

97

00:08:33,900 --> 00:08:31,150

the sandbox

98

00:08:37,610 --> 00:08:33,910

hashtag F to be Q is fade to black

99

00:08:41,730 --> 00:08:37,620

questions any questions for myself or

100

00:08:45,450 --> 00:08:41,740

Randall Carlson post it right there okay

101
00:08:47,430 --> 00:08:45,460
okay you can also email throughout the

102
00:08:50,130 --> 00:08:47,440
show Jimmy at Jimmy Turks radio comm we

103
00:08:53,640 --> 00:08:50,140
have to chat rooms open one over at

104
00:08:55,740 --> 00:08:53,650
Spreaker one over at kg re the planet

105
00:08:59,220 --> 00:08:55,750
hung out with everybody last night on

106
00:09:01,470 --> 00:08:59,230
YouTube you guys are fantastic loved

107
00:09:04,740 --> 00:09:01,480
hanging out on YouTube man I've got to

108
00:09:09,870 --> 00:09:04,750
figure out a way to do that more often

109
00:09:10,420 --> 00:09:09,880
the thing is just like just like Twitter

110
00:09:13,870 --> 00:09:10,430
with the SAP

111
00:09:16,240 --> 00:09:13,880
box you've got to stay focused you have

112
00:09:19,660 --> 00:09:16,250
to read everything and I there's no way

113
00:09:22,540 --> 00:09:19,670

that I could do the show and have that

114

00:09:25,090 --> 00:09:22,550

up in front of me and with Twitter at

115

00:09:28,060 --> 00:09:25,100

least I've got it sorted out a bit where

116

00:09:30,460 --> 00:09:28,070

I've got F to be Q sitting over there

117

00:09:32,620 --> 00:09:30,470

and that takes my attention when it

118

00:09:34,630 --> 00:09:32,630

clicks because that's just fade to black

119

00:09:36,040 --> 00:09:34,640

questions alright let me get a few

120

00:09:38,800 --> 00:09:36,050

things out of the way keep your immune

121

00:09:41,290 --> 00:09:38,810

system in check right now go and visit

122

00:09:44,500 --> 00:09:41,300

get the tea calm

123

00:09:47,470 --> 00:09:44,510

use the promo code fader fa d ER because

124

00:09:51,880 --> 00:09:47,480

you are a fader and you will get free

125

00:09:55,870 --> 00:09:51,890

shipping on orders over \$50 the the

126

00:09:57,280 --> 00:09:55,880

banners the the links everything that

127

00:10:00,250 --> 00:09:57,290

you need is over a two meter each radio

128

00:10:02,350 --> 00:10:00,260

calm and also I want you to go and check

129

00:10:07,449 --> 00:10:02,360

out Billy Carson's new internet TV

130

00:10:10,750 --> 00:10:07,459

network for bidding knowledge dot TV you

131

00:10:12,310 --> 00:10:10,760

get a three day trial for free so go and

132

00:10:14,650 --> 00:10:12,320

check it out right now for bid knowledge

133

00:10:16,810 --> 00:10:14,660

Thai TV the banners are over two meters

134

00:10:18,790 --> 00:10:16,820

ready to comment also when you're over

135

00:10:20,560 --> 00:10:18,800

80 meters radio calm the banners are

136

00:10:24,220 --> 00:10:20,570

right there for River moon coffee and

137

00:10:27,490 --> 00:10:24,230

their new Amazon store that's right

138

00:10:31,930 --> 00:10:27,500

featuring fade to black blend and our

139

00:10:34,269 --> 00:10:31,940

new blend game-changer yeah

140

00:10:37,120 --> 00:10:34,279

head right over and check out the Amazon

141

00:10:38,260 --> 00:10:37,130

store promo code is Jimmy our MC all

142

00:10:40,780 --> 00:10:38,270

caps

143

00:10:42,460 --> 00:10:40,790

Jimmy our MC that's Jimmy River moon

144

00:10:47,199 --> 00:10:42,470

coffee in case you haven't figured that

145

00:10:53,650 --> 00:10:47,209

out I want to know is that Kenny G I had

146

00:10:56,290 --> 00:10:53,660

to pull out my 45 oh man I you know I

147

00:11:00,160 --> 00:10:56,300

heard all of these rumors over the years

148

00:11:04,480 --> 00:11:00,170

that Kenny G is like the majority

149

00:11:06,819 --> 00:11:04,490

stockholder in Starbucks and it's weird

150

00:11:08,740 --> 00:11:06,829

you can find chatter about that on the

151
00:11:12,430 --> 00:11:08,750
Internet I think Kenny kind of downplays

152
00:11:14,710 --> 00:11:12,440
it but I think I think Kenny I think

153
00:11:17,230 --> 00:11:14,720
Kenny's rolling right now he's not

154
00:11:19,060 --> 00:11:17,240
worried about that a soprano saxophone

155
00:11:21,280 --> 00:11:19,070
or whatever you call that thing alright

156
00:11:23,630 --> 00:11:21,290
let's get to the breaking news a newly

157
00:11:27,710 --> 00:11:23,640
discovered asteroid

158
00:11:31,010 --> 00:11:27,720
named 20/20 gh2 which is about the size

159
00:11:32,930 --> 00:11:31,020
of your house is going to pass by earth

160
00:11:37,370 --> 00:11:32,940
tonight and it's not only gonna pass by

161
00:11:40,490 --> 00:11:37,380
earth it's gonna be in between the orbit

162
00:11:43,700 --> 00:11:40,500
of the moon and our planet that's right

163
00:11:45,440 --> 00:11:43,710

that on the outside in between the Earth

164

00:11:48,820 --> 00:11:45,450

and the moon the asteroid is gonna

165

00:11:50,720 --> 00:11:48,830

passed earth at a range of about 220

166

00:11:53,780 --> 00:11:50,730

3,000 miles out

167

00:11:56,570 --> 00:11:53,790

that may sound far to me that is close

168

00:11:58,370 --> 00:11:56,580

and in the world of the universe in our

169

00:12:01,250 --> 00:11:58,380

galactic neighborhood in our solar

170

00:12:03,440 --> 00:12:01,260

system 223 thousand miles is about that

171

00:12:07,730 --> 00:12:03,450

far it's pretty close

172

00:12:10,370 --> 00:12:07,740

the moon is 239,000 miles away so it's

173

00:12:13,220 --> 00:12:10,380

gonna miss the moon by about fifteen

174

00:12:15,260 --> 00:12:13,230

thousand miles and just think about it

175

00:12:17,150 --> 00:12:15,270

fifteen thousand miles an hour twenty

176

00:12:21,050 --> 00:12:17,160

thousand miles an hour you do the math

177

00:12:25,490 --> 00:12:21,060

it's close it is close they're saying

178

00:12:28,520 --> 00:12:25,500

don't worry but you can watch it it's

179

00:12:31,460 --> 00:12:28,530

pretty cool astronomers have uncovered a

180

00:12:35,990 --> 00:12:31,470

potentially habitable earth-sized

181

00:12:39,290 --> 00:12:36,000

exoplanet 300 light-years away from us

182

00:12:41,240 --> 00:12:39,300

now out of the two thousand six hundred

183

00:12:44,050 --> 00:12:41,250

and eighty one confirmed exoplanets

184

00:12:47,180 --> 00:12:44,060

spotted by NASA's Kepler space telescope

185

00:12:51,080 --> 00:12:47,190

between 2009 and 2008 team when it was

186

00:12:53,150 --> 00:12:51,090

retired this one is the most similar in

187

00:12:57,800 --> 00:12:53,160

size and potentially the same

188

00:13:03,950 --> 00:12:57,810

temperature to our planet now the planet

189

00:13:06,800 --> 00:13:03,960

has been dubbed Kepler 1649 see it's 1.0

190

00:13:09,920 --> 00:13:06,810

six times larger than Earth so it's

191

00:13:12,050 --> 00:13:09,930

about the same size receives about 75%

192

00:13:15,290 --> 00:13:12,060

of the amount of light that Earth gets

193

00:13:17,350 --> 00:13:15,300

from our Sun and this suggests that the

194

00:13:23,710 --> 00:13:17,360

surface temperature of this exoplanet

195

00:13:26,540 --> 00:13:23,720

could be the same as us now the

196

00:13:29,060 --> 00:13:26,550

researchers don't know much about the

197

00:13:31,580 --> 00:13:29,070

planet or its atmosphere which could

198

00:13:34,020 --> 00:13:31,590

shift the temperature estimate just a

199

00:13:36,060 --> 00:13:34,030

bit but I say

200

00:13:39,180 --> 00:13:36,070

maybe they should contact the brown

201
00:13:39,660 --> 00:13:39,190
dwarf wind dudes that I reported on last

202
00:13:41,520 --> 00:13:39,670
week

203
00:13:44,400 --> 00:13:41,530
I'm just saying answers could be right

204
00:13:47,310 --> 00:13:44,410
there the Starworks UFO artificial

205
00:13:50,370 --> 00:13:47,320
intelligence conference in Laughlin

206
00:13:55,140 --> 00:13:50,380
Nevada slated for November 5th through

207
00:13:58,050 --> 00:13:55,150
the 8th is still on that's right just go

208
00:14:00,240 --> 00:13:58,060
to Starworks usa.com for tickets and

209
00:14:03,270 --> 00:14:00,250
info I'm gonna be there

210
00:14:05,640 --> 00:14:03,280
Rita's gonna be there our entire fade to

211
00:14:08,280 --> 00:14:05,650
black crews gonna be there that's right

212
00:14:10,890 --> 00:14:08,290
the Aquarius Hotel and Casino right

213
00:14:13,410 --> 00:14:10,900

there in Laughlin Nevada just visit

214

00:14:15,480 --> 00:14:13,420

Starworks usa.com and the banners and

215

00:14:20,250 --> 00:14:15,490

links are over at Jimmy Church radio.com

216

00:14:21,810 --> 00:14:20,260

and the disclosure fest event at the

217

00:14:24,270 --> 00:14:21,820

historic Los Angeles Park in downtown

218

00:14:27,900 --> 00:14:24,280

Los Angeles casual for June 20th is

219

00:14:29,700 --> 00:14:27,910

still on and the state of California in

220

00:14:34,170 --> 00:14:29,710

the city of Los Angeles up until today

221

00:14:36,570 --> 00:14:34,180

say it is still going on and then we had

222

00:14:39,690 --> 00:14:36,580

the mayor and and the governor today say

223

00:14:43,500 --> 00:14:39,700

some weird things about no concerts or

224

00:14:45,050 --> 00:14:43,510

athletic events until 2021 no more

225

00:14:49,440 --> 00:14:45,060

crowds

226

00:14:51,870 --> 00:14:49,450

well we're expecting 20,000 on June 20th

227

00:14:54,180 --> 00:14:51,880

and that announcement came today but

228

00:14:58,140 --> 00:14:54,190

they're still saying that disclosure

229

00:15:01,320 --> 00:14:58,150

fest is on so visit disclosure fest dot

230

00:15:03,120 --> 00:15:01,330

org and we will make announcements not

231

00:15:06,690 --> 00:15:03,130

only here on this program on our live

232

00:15:09,360 --> 00:15:06,700

stream and over at disclosure fest dot

233

00:15:13,320 --> 00:15:09,370

org all right let's give the show crack

234

00:15:18,900 --> 00:15:13,330

and happy birthday to today Seth Rogan

235

00:15:20,940 --> 00:15:18,910

is 38 now Seth to me why do I gotta make

236

00:15:24,390 --> 00:15:20,950

a comment after a guy like Seth Rogen

237

00:15:27,510 --> 00:15:24,400

well it's because there are times when

238

00:15:30,270 --> 00:15:27,520

Seth is really funny like I think he's

239

00:15:33,060 --> 00:15:30,280

the funniest guy in the planet and then

240

00:15:36,090 --> 00:15:33,070

other times not so much you know what I

241

00:15:38,430 --> 00:15:36,100

mean but he's vetted some good stuff so

242

00:15:40,920 --> 00:15:38,440

there you go he made the list Seth Rogen

243

00:15:45,750 --> 00:15:40,930

today is 38 one of the greats on this

244

00:15:47,040 --> 00:15:45,760

planet right now Emma Thompson today 61

245

00:15:53,100 --> 00:15:47,050

years old

246

00:15:56,250 --> 00:15:53,110

and today guitars Dave Edmunds is 76

247

00:15:59,040 --> 00:15:56,260

years old that's right I always think

248

00:16:02,790 --> 00:15:59,050

when I think of Dave Edmunds I always

249

00:16:04,319 --> 00:16:02,800

think of Nick Lowe like those two just

250

00:16:07,259 --> 00:16:04,329

you know what I mean

251

00:16:08,699 --> 00:16:07,269

and if you've never heard of one he

252

00:16:10,139 --> 00:16:08,709

probably never heard of the other what

253

00:16:12,090 --> 00:16:10,149

was that even that they had a band

254

00:16:14,610 --> 00:16:12,100

called I had the UH

255

00:16:18,420 --> 00:16:14,620

the first album then maybe they only did

256

00:16:21,030 --> 00:16:18,430

one rock pile rock pile senior year in

257

00:16:24,470 --> 00:16:21,040

high school on this day in history

258

00:16:29,130 --> 00:16:24,480

oh wait our dead guy's birthday today

259

00:16:31,350 --> 00:16:29,140

Leonardo da Vinci 1450 to 215 19th I at

260

00:16:35,040 --> 00:16:31,360

the age of 67 of course

261

00:16:37,949 --> 00:16:35,050

the Renaissance artist the inventor the

262

00:16:40,170 --> 00:16:37,959

polymath musician and architect who

263

00:16:43,949 --> 00:16:40,180

263 painted the Mona Lisa and the Last

264

00:16:46,860 --> 00:16:43,959

Supper and drew the iconic Vitruvian Man

265

00:16:51,660 --> 00:16:46,870

he also devised such futuristic

266

00:16:52,340 --> 00:16:51,670

technology like tanks solar power that's

267

00:16:59,970 --> 00:16:52,350

right

268

00:17:02,790 --> 00:16:59,980

civil engineering optics and hydro

269

00:17:06,150 --> 00:17:02,800

dynamics happy birthday Leonardo da

270

00:17:09,179 --> 00:17:06,160

Vinci without you there would be no Dan

271

00:17:13,620 --> 00:17:09,189

Brown I'm just saying I'm the sane

272

00:17:16,860 --> 00:17:13,630

history 1912 king of the world

273

00:17:19,679 --> 00:17:16,870

the British ocean liner Titanic sinks

274

00:17:23,189 --> 00:17:19,689

into the North Atlantic about 400 miles

275

00:17:26,280 --> 00:17:23,199

south of Newfoundland Canada fader fact

276

00:17:32,580 --> 00:17:26,290

bet you didn't know this there is a

277

00:17:36,000 --> 00:17:32,590

gargoyle a Darth Vader gargoyle on the

278

00:17:38,580 --> 00:17:36,010

Washington Cathedral that's right and

279

00:17:41,280 --> 00:17:38,590

it's real it is there it was placed

280

00:17:44,370 --> 00:17:41,290

there after a children's design a

281

00:17:47,580 --> 00:17:44,380

carving competition that was held back

282

00:17:49,530 --> 00:17:47,590

in the 1980s you gotta check out the

283

00:17:52,890 --> 00:17:49,540

picture of it it's pretty cool

284

00:17:55,710 --> 00:17:52,900

tonight the beard of knowledge Randall

285

00:17:57,750 --> 00:17:55,720

Carlson joins us tomorrow night is

286

00:17:58,720 --> 00:17:57,760

another Fator night and we'll be giving

287

00:18:01,750 --> 00:17:58,730

away

288

00:18:04,840 --> 00:18:01,760

more fade to black memberships for I'll

289

00:18:07,930 --> 00:18:04,850

give away six doesn't matter

290

00:18:09,760 --> 00:18:07,940

tomorrow night live open lines all night

291

00:18:12,610 --> 00:18:09,770

long give away some more fade to black

292

00:18:14,890 --> 00:18:12,620

memberships to those in need and who are

293

00:18:18,090 --> 00:18:14,900

staying at home all right let me hit

294

00:18:27,970 --> 00:18:23,289

fade to black blend I don't have the we

295

00:18:31,750 --> 00:18:27,980

we drank all of the game changer yeah so

296

00:18:33,940 --> 00:18:31,760

this is fade to black blend and soon the

297

00:18:37,510 --> 00:18:33,950

next time when I'm drinking game changer

298

00:18:43,320 --> 00:18:37,520

we'll see the effect that it has with me

299

00:18:47,950 --> 00:18:45,370

man that's good coffee

300

00:18:52,570 --> 00:18:47,960

my daughter is texting me I got things

301
00:18:59,470 --> 00:18:57,220
ah isn't that cool REE Nicole wants to

302
00:19:02,260 --> 00:18:59,480
come hi tomorrow just thought I'd let

303
00:19:02,860 --> 00:19:02,270
you know let's do a live on the air love

304
00:19:07,659 --> 00:19:02,870
you baby

305
00:19:14,470 --> 00:19:07,669
alright I think that it's time we talk

306
00:19:16,840 --> 00:19:14,480
entropy again for most of you you've

307
00:19:20,080 --> 00:19:16,850
heard me discuss this enough to

308
00:19:21,220 --> 00:19:20,090
understand and have a basic view of my

309
00:19:25,120 --> 00:19:21,230
take on it

310
00:19:29,039 --> 00:19:25,130
what entropy is but let's start once

311
00:19:33,340 --> 00:19:29,049
again with the actual definitions in

312
00:19:36,340 --> 00:19:33,350
physics entropy is a thermodynamic

313
00:19:38,710 --> 00:19:36,350

quantity representing the unavailability

314

00:19:41,860 --> 00:19:38,720

of a systems thermal energy for

315

00:19:44,440 --> 00:19:41,870

conversion into mechanical work often

316

00:19:49,650 --> 00:19:44,450

interpreted as the degree of disorder or

317

00:19:55,720 --> 00:19:49,660

randomness in the system the real world

318

00:19:59,409 --> 00:19:55,730

definition of entropy is as follows the

319

00:20:05,700 --> 00:19:59,419

lack of order or predictability gradual

320

00:20:07,960 --> 00:20:05,710

decline into disorder okay you got that

321

00:20:10,780 --> 00:20:07,970

you got that right here in the frontal

322

00:20:12,190 --> 00:20:10,790

lobes I have brought up entropy and how

323

00:20:14,440 --> 00:20:12,200

it may apply to different parts of

324

00:20:16,269 --> 00:20:14,450

our society today I have done this many

325

00:20:18,690 --> 00:20:16,279

times I've written about it I've spoken

326

00:20:22,389 --> 00:20:18,700

about it I've interviewed about it and

327

00:20:24,909 --> 00:20:22,399

some of the elements of society today

328

00:20:28,090 --> 00:20:24,919

that I've covered over the years is

329

00:20:31,299 --> 00:20:28,100

things like the computer systems of Wall

330

00:20:34,389 --> 00:20:31,309

Street those computer systems in Wall

331

00:20:36,399 --> 00:20:34,399

Street all started out simple at one

332

00:20:39,129 --> 00:20:36,409

point it was just like one computer all

333

00:20:42,909 --> 00:20:39,139

right very simple but today are so

334

00:20:46,659 --> 00:20:42,919

complex nobody understands what's going

335

00:20:49,649 --> 00:20:46,669

on there isn't anybody that is the head

336

00:20:53,019 --> 00:20:49,659

of any organization that's right

337

00:20:55,389 --> 00:20:53,029

Wall Street is headed for real disorder

338

00:20:58,779 --> 00:20:55,399

and we see it happen every single day

339

00:21:01,810 --> 00:20:58,789

when those computers buy stock instead

340

00:21:04,990 --> 00:21:01,820

of humans and all those stock trends go

341

00:21:07,090 --> 00:21:05,000

down in nanoseconds because computers

342

00:21:10,259 --> 00:21:07,100

are making those decisions and then we

343

00:21:12,759 --> 00:21:10,269

have our communication systems

344

00:21:15,659 --> 00:21:12,769

communication systems I'm like in

345

00:21:18,070 --> 00:21:15,669

satellites and on the ground right

346

00:21:21,100 --> 00:21:18,080

communication systems for cell phones

347

00:21:25,120 --> 00:21:21,110

for news for entertainment for smart

348

00:21:28,330 --> 00:21:25,130

anything it all started out simple right

349

00:21:32,019 --> 00:21:28,340

and today are far too advanced again for

350

00:21:35,110 --> 00:21:32,029

anyone to really understand truly headed

351
00:21:38,560 --> 00:21:35,120
for real entropy then we have the

352
00:21:42,490 --> 00:21:38,570
internet and again the internet started

353
00:21:51,639 --> 00:21:48,399
Air Force Academy to Stanford up one

354
00:21:55,240 --> 00:21:51,649
wine one little email hey man what's up

355
00:21:55,870 --> 00:21:55,250
right all right think about that for a

356
00:21:59,500 --> 00:21:55,880
second

357
00:22:01,509 --> 00:21:59,510
and today the Internet has grown into

358
00:22:04,240 --> 00:22:01,519
the most complex and connected system

359
00:22:06,220 --> 00:22:04,250
that has everything literally everything

360
00:22:07,899 --> 00:22:06,230
every person every business

361
00:22:11,110 --> 00:22:07,909
infrastructure transportation logistics

362
00:22:13,360 --> 00:22:11,120
military education health care every

363
00:22:17,320 --> 00:22:13,370

single aspect of every life of

364

00:22:21,639 --> 00:22:17,330

everything in every country on this

365

00:22:25,389 --> 00:22:21,649

planet this is entropy happening in its

366

00:22:26,879 --> 00:22:25,399

purest form start out simple you get

367

00:22:31,389 --> 00:22:26,889

complex

368

00:22:33,629 --> 00:22:31,399

disorder comes unglued now let's just

369

00:22:36,239 --> 00:22:33,639

take a step back for a second alright

370

00:22:39,700 --> 00:22:36,249

want you to hear me out

371

00:22:41,709 --> 00:22:39,710

the worldwide crisis that I have

372

00:22:43,180 --> 00:22:41,719

declined to talk about over the last

373

00:22:47,049 --> 00:22:43,190

couple of weeks but you know what I'm

374

00:22:50,459 --> 00:22:47,059

referring to that worldwide crisis that

375

00:22:56,919 --> 00:22:50,469

we find ourselves in may have stopped

376

00:22:59,680 --> 00:22:56,929

entropy and its tracks it has forced

377

00:23:03,249 --> 00:22:59,690

everyone on this planet every country to

378

00:23:07,570 --> 00:23:03,259

slow down and to take the time to

379

00:23:12,549 --> 00:23:07,580

reflect to reflect on the way that we

380

00:23:14,409 --> 00:23:12,559

have been doing things now sometimes you

381

00:23:17,279 --> 00:23:14,419

just need a shock to the system

382

00:23:20,889 --> 00:23:17,289

something real something tangible for

383

00:23:24,729 --> 00:23:20,899

everyone to just go well alright it's

384

00:23:26,560 --> 00:23:24,739

time to change now I'm going to mention

385

00:23:36,299 --> 00:23:26,570

something right now that may seem a

386

00:23:43,269 --> 00:23:39,570

before the end of World War two

387

00:23:47,859 --> 00:23:43,279

Japan was completely out of control and

388

00:23:48,459 --> 00:23:47,869

it goes back a thousand years that's

389

00:23:50,739 --> 00:23:48,469

right

390

00:23:53,969 --> 00:23:50,749

they were completely out of control

391

00:23:58,839 --> 00:23:53,979

invading everything that little island

392

00:24:02,139 --> 00:23:58,849

had a very bad attitude the world's

393

00:24:05,430 --> 00:24:02,149

image of Japan wasn't a good one now in

394

00:24:07,079 --> 00:24:05,440

fact most countries were very very

395

00:24:13,479 --> 00:24:07,089

scared

396

00:24:16,959 --> 00:24:13,489

they were Japan was intimidating today

397

00:24:21,639 --> 00:24:16,969

our image of Japan is completely

398

00:24:24,779 --> 00:24:21,649

different it's because the entropy was

399

00:24:28,690 --> 00:24:24,789

stopped by the end of World War two

400

00:24:31,450 --> 00:24:28,700

Japan had a complete lack of order and

401
00:24:35,919 --> 00:24:31,460
predictability they did and they

402
00:24:38,210 --> 00:24:35,929
declined into complete disorder I'm

403
00:24:43,850 --> 00:24:38,220
talking about before her

404
00:24:47,499 --> 00:24:43,860
and Nagasaki all right things happened

405
00:24:51,350 --> 00:24:47,509
after that we know and when they did

406
00:24:54,499 --> 00:24:51,360
they made those changes Japan was forced

407
00:24:57,919 --> 00:24:54,509
into making rip all of which started off

408
00:25:01,100 --> 00:24:57,929
simple expanded as far as they could

409
00:25:04,490 --> 00:25:01,110
take things and then entropy took over

410
00:25:08,869 --> 00:25:04,500
and as funny as this may sound this is

411
00:25:12,470 --> 00:25:08,879
the micro this is the micro version of

412
00:25:16,700 --> 00:25:12,480
entropy not the macro version of what

413
00:25:21,950 --> 00:25:16,710

entropy can do this time around we are

414

00:25:26,389 --> 00:25:21,960

seeing it at a global scale the macro

415

00:25:30,110 --> 00:25:26,399

side of things it's called our earth all

416

00:25:32,299 --> 00:25:30,120

of it but this time around we didn't

417

00:25:36,440 --> 00:25:32,309

make these changes that are happening

418

00:25:39,139 --> 00:25:36,450

today because we wanted to or that we

419

00:25:41,930 --> 00:25:39,149

saw that it was needed to make these

420

00:25:43,610 --> 00:25:41,940

changes you know the changes I'm talking

421

00:25:47,680 --> 00:25:43,620

about too much pollution too much war

422

00:25:52,639 --> 00:25:47,690

too much anger too much negativity right

423

00:25:54,529 --> 00:25:52,649

no we are forced into a new world view

424

00:25:59,419 --> 00:25:54,539

because it was something that we

425

00:26:01,759 --> 00:25:59,429

couldn't control entropy so the world

426

00:26:05,299 --> 00:26:01,769

was forced to stop for a few months

427

00:26:08,659 --> 00:26:05,309

which includes the wars the crime the

428

00:26:13,190 --> 00:26:08,669

negativity the pollution and maybe if

429

00:26:15,830 --> 00:26:13,200

we're really lucky entropy this gives us

430

00:26:19,549 --> 00:26:15,840

a chance to reset and figure out a new

431

00:26:22,669 --> 00:26:19,559

path forward it can be done the old ways

432

00:26:25,789 --> 00:26:22,679

of doing things just didn't work for now

433

00:26:27,649 --> 00:26:25,799

we have what we need I need you to think

434

00:26:29,659 --> 00:26:27,659

about this because we do have the

435

00:26:32,389 --> 00:26:29,669

internet we do have great technology we

436

00:26:34,999 --> 00:26:32,399

have amazing healthcare we've got great

437

00:26:39,259 --> 00:26:35,009

transportation we have an education

438

00:26:41,990 --> 00:26:39,269

system in place and the arts you know we

439

00:26:46,419 --> 00:26:42,000

have everything here it's ready to go so

440

00:26:49,810 --> 00:26:46,429

let's just focus on the future

441

00:26:53,820 --> 00:26:49,820

if I were president if

442

00:26:58,540 --> 00:26:53,830

as president I would go on national TV

443

00:27:01,270 --> 00:26:58,550

today today i'ma go on national TV and

444

00:27:06,970 --> 00:27:01,280

then I would visit every region of the

445

00:27:10,900 --> 00:27:06,980

world and I would just say stop did you

446

00:27:15,130 --> 00:27:10,910

hear that Rita it's from a TV show we're

447

00:27:19,420 --> 00:27:15,140

watching right now stop everyone just

448

00:27:21,760 --> 00:27:19,430

stop we've all had enough that would be

449

00:27:26,680 --> 00:27:21,770

my message one word

450

00:27:29,170 --> 00:27:26,690

stop in the past this would have been

451
00:27:32,560 --> 00:27:29,180
impossible in fact it would have been

452
00:27:35,890 --> 00:27:32,570
impossible just two months ago today

453
00:27:37,660 --> 00:27:35,900
well I think everyone has had enough the

454
00:27:40,000 --> 00:27:37,670
shock to the system has actually

455
00:27:42,760 --> 00:27:40,010
happened a shock so violent that nobody

456
00:27:45,100 --> 00:27:42,770
could have predicted it but it has

457
00:27:48,070 --> 00:27:45,110
happened the emotional impact on

458
00:27:50,890 --> 00:27:48,080
everyone will it's gonna be around for a

459
00:27:56,200 --> 00:27:50,900
very very long time the laws of physics

460
00:27:59,260 --> 00:27:56,210
and the one thing at its core is entropy

461
00:28:02,320 --> 00:27:59,270
and this time it has a chance to be

462
00:28:06,760 --> 00:28:02,330
beaten for the first time in all of

463
00:28:12,280 --> 00:28:06,770

history there is a side effect oh that's

464

00:28:16,000 --> 00:28:12,290

right of course hopefully ET is watching

465

00:28:19,300 --> 00:28:16,010

and we'll show the universe that we're

466

00:28:22,270 --> 00:28:19,310

ready and willing to grow up I'm just

467

00:28:26,140 --> 00:28:22,280

saying and remember for any advanced

468

00:28:29,170 --> 00:28:26,150

civilization to find us here they would

469

00:28:33,790 --> 00:28:29,180

have to have kicked n trapeze but a few

470

00:28:36,400 --> 00:28:33,800

times seriously that's right

471

00:28:39,220 --> 00:28:36,410

this is fade to black I am your host

472

00:28:42,340 --> 00:28:39,230

Jimmy church tonight the beard of

473

00:28:43,720 --> 00:28:42,350

knowledge Randall Carlson looking

474

00:28:45,580 --> 00:28:43,730

forward to this he'll be with us right

475

00:28:49,030 --> 00:28:45,590

after this short break you can follow me

476
00:28:54,659 --> 00:28:49,040
on twitter @ JT radio you can follow

477
00:28:58,109 --> 00:28:54,669
Randall at sacred geo

478
00:29:02,039 --> 00:28:58,119
int for sacred geometry international

479
00:29:04,560 --> 00:29:02,049
that's the Twitter account I don't make

480
00:29:08,029 --> 00:29:04,570
this stuff up there he is

481
00:29:10,499 --> 00:29:08,039
stop stop

482
00:29:12,779 --> 00:29:10,509
I'm real chippy Church of the

483
00:29:14,549 --> 00:29:12,789
game-changer network can K GRA the

484
00:29:33,360 --> 00:29:14,559
planet this is fade to black we'll be

485
00:29:37,920 --> 00:29:35,850
this is Nicole Church daughter of

486
00:29:39,900 --> 00:29:37,930
you-know-who and you're listening to

487
00:29:45,090 --> 00:29:39,910
fade to black on Jimmy Church radio.com

488
00:30:02,840 --> 00:29:45,100

and the GameChanger network you're

489

00:30:08,370 --> 00:30:05,760

when you take the beans from Central

490

00:30:10,800 --> 00:30:08,380

America with dashes of Indonesian and

491

00:30:13,920 --> 00:30:10,810

African mixed in and then roasted to the

492

00:30:17,310 --> 00:30:13,930

dark side of fade to black you create

493

00:30:19,980 --> 00:30:17,320

the ultimate brew of fringe introducing

494

00:30:23,220 --> 00:30:19,990

the fade to black blend from river moon

495

00:30:25,680 --> 00:30:23,230

coffee yes River moons darkest

496

00:30:26,370 --> 00:30:25,690

customized roast was created for the

497

00:30:30,030 --> 00:30:26,380

love of

498

00:30:32,550 --> 00:30:30,040

fade to black the alchemy of masterful

499

00:30:35,790 --> 00:30:32,560

roasting and smoking the beans is in

500

00:30:39,990 --> 00:30:35,800

every sip of this full-bodied dark Java

501
00:30:41,850 --> 00:30:40,000
I need my coffee dog deep with distinct

502
00:30:45,030 --> 00:30:41,860
bittersweet chocolate highlights just

503
00:30:47,460 --> 00:30:45,040
like the bunker leaning further into the

504
00:30:50,760 --> 00:30:47,470
darkness of the roast is fade to black

505
00:30:52,410 --> 00:30:50,770
blend from river moon coffee just click

506
00:30:55,740 --> 00:30:52,420
on the banner at Jimmy Church radio.com

507
00:31:01,040 --> 00:30:55,750
and use the promo code F to B blend for

508
00:31:03,300 --> 00:31:01,050
15% off of your order today gobekli tepe

509
00:31:06,810 --> 00:31:03,310
this is Jimmy Church of fade to black

510
00:31:09,120 --> 00:31:06,820
and you can get our podcast for just \$2

511
00:31:11,640 --> 00:31:09,130
per month all you have to do is click on

512
00:31:13,130 --> 00:31:11,650
the podcast banner over at Jimmy Church

513
00:31:15,990 --> 00:31:13,140

radio.com

514

00:31:18,750 --> 00:31:16,000

OMG people are jumping on board to the

515

00:31:21,120 --> 00:31:18,760

life change tea Regiment brew steep and

516

00:31:23,610 --> 00:31:21,130

drink for a channel tastes great cleanse

517

00:31:24,840 --> 00:31:23,620

it's changing how they feel see what

518

00:31:27,360 --> 00:31:24,850

everybody's talking about

519

00:31:29,940 --> 00:31:27,370

log on to get the tea calm that's get

520

00:31:31,830 --> 00:31:29,950

the tea calm life change tea aids and

521

00:31:34,290 --> 00:31:31,840

digestive slow down and helps people get

522

00:31:36,330 --> 00:31:34,300

moving down a healthy path we won't make

523

00:31:37,950 --> 00:31:36,340

claims we'll just let you decide

524

00:31:40,230 --> 00:31:37,960

experience is much better than a

525

00:31:42,510 --> 00:31:40,240

commercial anyway if you want results

526
00:31:44,580 --> 00:31:42,520
log on to get the tea comm and purchase

527
00:31:46,560 --> 00:31:44,590
your super strength cleansing tea you

528
00:31:46,830 --> 00:31:46,570
won't be disappointed if you're looking

529
00:31:49,200 --> 00:31:46,840
for

530
00:31:50,910 --> 00:31:49,210
mind body suggestions go to youtube and

531
00:31:51,420 --> 00:31:50,920
punch in the search bar health matters

532
00:31:59,970 --> 00:31:51,430
now

533
00:32:02,250 --> 00:31:59,980
that's get the tea calm for super

534
00:32:04,410 --> 00:32:02,260
strength tea and you too health matters

535
00:32:07,560 --> 00:32:04,420
now that's health matters now for

536
00:32:10,320 --> 00:32:07,570
valuable suggestions get the t.com the

537
00:32:16,800 --> 00:32:10,330
Teta makes you go 9 out of 10

538
00:32:21,570 --> 00:32:16,810

geneticists agreed failed do black is

539

00:32:25,590 --> 00:32:21,580

not your father's radio show on the game

540

00:32:27,320 --> 00:32:25,600

changer of radio network and kgr a the

541

00:32:30,180 --> 00:32:27,330

planet

542

00:32:32,400 --> 00:32:30,190

hi this is rob reiner from apple and

543

00:32:55,000 --> 00:32:32,410

you're listening to jimmy church radio

544

00:32:59,770 --> 00:32:56,980

welcome back fade to black Camille's

545

00:33:02,980 --> 00:32:59,780

Timmy church tonight Randall Carlson is

546

00:33:04,930 --> 00:33:02,990

here get ready for that tomorrow night

547

00:33:07,210 --> 00:33:04,940

is another Fator night with open lines

548

00:33:11,560 --> 00:33:07,220

all night long tonight it is Randall

549

00:33:16,600 --> 00:33:11,570

we're gonna be talking about Wow just

550

00:33:19,419 --> 00:33:16,610

wait we've got one word for you tonight

551
00:33:22,600 --> 00:33:19,429
Randall Randall is a master builder he's

552
00:33:26,110 --> 00:33:22,610
an architectural designer teacher geo

553
00:33:28,600 --> 00:33:26,120
matricies geo metallurgist geological

554
00:33:30,460 --> 00:33:28,610
Explorer and renegade scholar he has

555
00:33:32,169 --> 00:33:30,470
four decades of study research and

556
00:33:33,940 --> 00:33:32,179
exploration into the interface between

557
00:33:36,279 --> 00:33:33,950
ancient mysteries and modern science

558
00:33:38,680 --> 00:33:36,289
were going to be discussing all of that

559
00:33:40,750 --> 00:33:38,690
tonight it's been an active Freemason

560
00:33:42,399 --> 00:33:40,760
for over 30 years he's a past master of

561
00:33:44,980 --> 00:33:42,409
one of the oldest and largest Masonic

562
00:33:46,210 --> 00:33:44,990
lodges in Georgia he has been recognized

563
00:33:48,130 --> 00:33:46,220

by the National Science Teachers

564

00:33:49,990 --> 00:33:48,140

Association for his commitment to

565

00:33:52,899 --> 00:33:50,000

science and education for young people

566

00:33:55,149 --> 00:33:52,909

his work incorporates ancient mythology

567

00:33:57,759 --> 00:33:55,159

astronomy earth science paleontology

568

00:34:00,850 --> 00:33:57,769

symbolism sacred geometry and architect

569

00:34:03,669 --> 00:34:00,860

architecture geomancy and other arcane

570

00:34:05,560 --> 00:34:03,679

and scientific traditions for over 25

571

00:34:07,870 --> 00:34:05,570

years he has presented classes lectures

572

00:34:10,329 --> 00:34:07,880

and multimedia program synthesizing this

573

00:34:13,180 --> 00:34:10,339

information for students of the

574

00:34:14,889 --> 00:34:13,190

mysteries like myself I would like to

575

00:34:18,070 --> 00:34:14,899

welcome back to fade to black the beard

576

00:34:21,250 --> 00:34:18,080

of knowledge Randall Carlson Randall

577

00:34:23,950 --> 00:34:21,260

good evening man well thanks for having

578

00:34:25,899 --> 00:34:23,960

me again Jimmy hey you know the beard of

579

00:34:27,790 --> 00:34:25,909

knowledge you can't escape it now you

580

00:34:32,320 --> 00:34:27,800

know that all right do you wear with

581

00:34:34,599 --> 00:34:32,330

pride well I've always worn my beard

582

00:34:37,810 --> 00:34:34,609

with pride only because I have no other

583

00:34:39,490 --> 00:34:37,820

choice I'm one of those I've got such a

584

00:34:42,970 --> 00:34:39,500

you know I got such a sensitive face

585

00:34:45,129 --> 00:34:42,980

Jimmy that I you know when I save it and

586

00:34:47,919 --> 00:34:45,139

that harsh metal goes against my skin

587

00:34:49,899 --> 00:34:47,929

right it always leaves a brass but you

588

00:34:53,970 --> 00:34:49,909

know you're supposed to be the rugged

589

00:34:57,820 --> 00:34:53,980

outdoorsman you can't say that publicly

590

00:34:59,859 --> 00:34:57,830

well you know I've managed to have a lot

591

00:35:01,870 --> 00:34:59,869

of people fooled for many decades that

592

00:35:04,030 --> 00:35:01,880

I'm this rugged outdoorsman type right

593

00:35:05,890 --> 00:35:04,040

because I grew up in the outdoors and

594

00:35:08,530 --> 00:35:05,900

spend a lot of time in the outdoors but

595

00:35:10,690 --> 00:35:08,540

these days I'm just hanging around the

596

00:35:13,060 --> 00:35:10,700

house doing normal things you know kind

597

00:35:14,920 --> 00:35:13,070

of like normal people do finding out

598

00:35:16,900 --> 00:35:14,930

what that's all about and I'm actually

599

00:35:20,140 --> 00:35:16,910

finding it rather satisfying in a

600

00:35:22,720 --> 00:35:20,150

low-key kind of a way Randall if you and

601
00:35:24,880 --> 00:35:22,730
I if I was lost in the woods you would

602
00:35:25,400 --> 00:35:24,890
be the guy that I would want to get lost

603
00:35:27,800 --> 00:35:25,410
with

604
00:35:29,540 --> 00:35:27,810
you could build I hope you could build a

605
00:35:33,680 --> 00:35:29,550
house with a pocketknife we could have

606
00:35:39,680 --> 00:35:33,690
shelter nearly immediately and we could

607
00:35:41,960 --> 00:35:39,690
probably just build a whole farm well we

608
00:35:44,560 --> 00:35:41,970
could try you know I'm not quite as

609
00:35:47,150 --> 00:35:44,570
adept as I once was

610
00:35:49,580 --> 00:35:47,160
you know there was a time when I was

611
00:35:51,980 --> 00:35:49,590
young and spry and I could pretty much I

612
00:35:55,310 --> 00:35:51,990
could climb a tree and you know dig a

613
00:35:57,200 --> 00:35:55,320

hole six feet deep and do all take a

614

00:36:00,140 --> 00:35:57,210

well do all kinds of stuff now I'm a

615

00:36:01,940 --> 00:36:00,150

little bit slower you know I've had few

616

00:36:04,310 --> 00:36:01,950

things that happen over the years you

617

00:36:07,580 --> 00:36:04,320

know a few accidents that's the kind of

618

00:36:12,980 --> 00:36:07,590

work that I do and so now I turn over a

619

00:36:14,420 --> 00:36:12,990

lot of that to the younger guy I've been

620

00:36:18,710 --> 00:36:14,430

asking you the question you've never

621

00:36:21,200 --> 00:36:18,720

been asked right now how many times do

622

00:36:24,140 --> 00:36:21,210

you get a phone call from somebody that

623

00:36:26,540 --> 00:36:24,150

wants to build a back deck and if you

624

00:36:30,860 --> 00:36:26,550

would come over and help you're the guy

625

00:36:32,920 --> 00:36:30,870

that's who they call first yeah well you

626
00:36:39,680 --> 00:36:32,930
know I built probably a couple hundred

627
00:36:41,780 --> 00:36:39,690
backyard seriously I guess I haven't

628
00:36:44,990 --> 00:36:41,790
built one for a couple of years I think

629
00:36:49,400 --> 00:36:45,000
summer before last I built a multi-story

630
00:36:51,500 --> 00:36:49,410
deck it was pretty pretty good little

631
00:36:53,090 --> 00:36:51,510
project but for the last four or five

632
00:36:57,500 --> 00:36:53,100
months I've been building a restaurant

633
00:37:01,250 --> 00:36:57,510
and it's just about finished the timing

634
00:37:02,990 --> 00:37:01,260
is rather interesting because our dates

635
00:37:05,450 --> 00:37:03,000
to be open which is going to depend on

636
00:37:06,860 --> 00:37:05,460
in span's fire marshals and all of that

637
00:37:09,050 --> 00:37:06,870
and we have to get a certificate of

638
00:37:10,640 --> 00:37:09,060

occupancy but we're looking to open in

639

00:37:12,500 --> 00:37:10,650

three to four weeks so we're hoping that

640

00:37:15,280 --> 00:37:12,510

the country will be open again and

641

00:37:17,870 --> 00:37:15,290

people will be ready to get out and and

642

00:37:20,450 --> 00:37:17,880

eat some good food and that sort of

643

00:37:22,370 --> 00:37:20,460

thing so this restaurant is going to be

644

00:37:24,560 --> 00:37:22,380

it's called the wheelhouse the

645

00:37:26,660 --> 00:37:24,570

wheelhouse craft pub and kitchen you

646

00:37:29,420 --> 00:37:26,670

know we'll have craft beers and a lot of

647

00:37:33,050 --> 00:37:29,430

good farm-to-table kind of menu real

648

00:37:35,859 --> 00:37:33,060

wholesome menu so yeah it was a it was a

649

00:37:39,579 --> 00:37:35,869

Randall Carlton design this

650

00:37:41,230 --> 00:37:39,589

we landed a job oh are you building it

651
00:37:44,440 --> 00:37:41,240
for somebody else or is this your

652
00:37:48,789 --> 00:37:44,450
restaurant or your part Wellman is part

653
00:37:50,440 --> 00:37:48,799
of the agreement my brother and I was my

654
00:37:53,349 --> 00:37:50,450
partner in the businesses we're getting

655
00:37:55,089 --> 00:37:53,359
a percentage of the ownership so that

656
00:37:57,220 --> 00:37:55,099
was kind of what we negotiated right

657
00:37:58,690 --> 00:37:57,230
from the beginning so we actually what

658
00:38:01,420 --> 00:37:58,700
we're doing is we go in with our team

659
00:38:03,309 --> 00:38:01,430
and do the build-out but we were

660
00:38:06,609 --> 00:38:03,319
originally going to be a subcontractor

661
00:38:09,309 --> 00:38:06,619
and the general contractor fell through

662
00:38:11,680 --> 00:38:09,319
so at the last minute we kind of stepped

663
00:38:14,650 --> 00:38:11,690

in to fill his shoes and we agreed that

664

00:38:20,230 --> 00:38:14,660

well for the project management will

665

00:38:23,410 --> 00:38:20,240

take a piece of the action so do you get

666

00:38:26,200 --> 00:38:23,420

to are you gonna be one of those hands

667

00:38:30,339 --> 00:38:26,210

on own or partner guys that you get to

668

00:38:32,890 --> 00:38:30,349

do the menu selection the taste testing

669

00:38:36,130 --> 00:38:32,900

you get to check out the menu are you

670

00:38:39,249 --> 00:38:36,140

gonna be like that okay some of that and

671

00:38:41,549 --> 00:38:39,259

in fact the owner has agreed to name a

672

00:38:43,870 --> 00:38:41,559

grilled cheese sandwich after me so um

673

00:38:47,229 --> 00:38:43,880

you know that itself is going to be

674

00:38:50,019 --> 00:38:47,239

worth a lot we just I do Jamie make a

675

00:38:52,239 --> 00:38:50,029

hell of a green jersey family I bet you

676

00:38:54,789 --> 00:38:52,249

do I bet you do

677

00:38:57,549 --> 00:38:54,799

that is fantastic but hey I've got good

678

00:38:59,769 --> 00:38:57,559

coffee for you if you want a good house

679

00:39:02,920 --> 00:38:59,779

blend it's it's called fade to black

680

00:39:05,380 --> 00:39:02,930

it's really good yeah I would like to

681

00:39:07,239 --> 00:39:05,390

try that yeah it's me I'm not tried your

682

00:39:10,239 --> 00:39:07,249

coffee here we've been talking for years

683

00:39:12,630 --> 00:39:10,249

and I haven't tried your coffee you know

684

00:39:14,979 --> 00:39:12,640

there's no excuse for that is there and

685

00:39:17,799 --> 00:39:14,989

thank you for the and thank you for

686

00:39:20,710 --> 00:39:17,809

throwing me under the bus we will Wilson

687

00:39:23,710 --> 00:39:20,720

is about right I am no I'm seriously I'm

688

00:39:25,720 --> 00:39:23,720

a connoisseur a good coffee and I would

689

00:39:28,210 --> 00:39:25,730

love to drink something to black coffee

690

00:39:29,019 --> 00:39:28,220

I know that there's been a deficiency in

691

00:39:30,640 --> 00:39:29,029

my life

692

00:39:32,319 --> 00:39:30,650

recently and I didn't really know what

693

00:39:37,420 --> 00:39:32,329

it was I think I've got it figured out

694

00:39:39,759 --> 00:39:37,430

now yep okay yeah ready it's the best

695

00:39:41,979 --> 00:39:39,769

you know so you have to be prepared for

696

00:39:44,200 --> 00:39:41,989

that it's a shock to the system that's

697

00:39:45,819 --> 00:39:44,210

something this good could actually have

698

00:39:46,150 --> 00:39:45,829

been out there and you didn't know about

699

00:39:48,290 --> 00:39:46,160

it

700

00:39:52,670 --> 00:39:48,300

so we'll take care of that I know

701
00:39:54,650 --> 00:39:52,680
we'll hook you up this is I kind of want

702
00:39:57,110 --> 00:39:54,660
to change gears but I don't want to do

703
00:39:58,820 --> 00:39:57,120
it too rapidly because this is such a

704
00:40:02,810 --> 00:39:58,830
heavy subject that we are going to be

705
00:40:05,750 --> 00:40:02,820
discussing tonight but the first thing I

706
00:40:08,960 --> 00:40:05,760
did want to ask you we've have not

707
00:40:11,510 --> 00:40:08,970
talked about coronavirus on the show for

708
00:40:14,690 --> 00:40:11,520
a couple of weeks I have I made a

709
00:40:17,330 --> 00:40:14,700
conscious decision to do that but I do

710
00:40:19,760 --> 00:40:17,340
want to ask how are you guys doing out

711
00:40:24,410 --> 00:40:19,770
there how's the family how's the town

712
00:40:26,240 --> 00:40:24,420
how's the city is is everything ok yeah

713
00:40:28,850 --> 00:40:26,250

yeah well like I said you know it's

714

00:40:31,550 --> 00:40:28,860

giving me a taste of what normal life is

715

00:40:33,440 --> 00:40:31,560

like for normal people so you know

716

00:40:35,030 --> 00:40:33,450

staying at home and you know hanging

717

00:40:38,330 --> 00:40:35,040

around the house and my slippers and

718

00:40:40,460 --> 00:40:38,340

that kind of thing right so we're doing

719

00:40:43,390 --> 00:40:40,470

ok you know like I said I've been

720

00:40:46,730 --> 00:40:43,400

staying busy my wife has a pretty

721

00:40:49,010 --> 00:40:46,740

critical job at Emory University she's

722

00:40:51,260 --> 00:40:49,020

in facilities management and part of her

723

00:40:54,140 --> 00:40:51,270

job is keeping critical infrastructure

724

00:40:56,300 --> 00:40:54,150

running so she's had her hands full

725

00:40:58,250 --> 00:40:56,310

we've you know we've been working and

726

00:41:00,950 --> 00:40:58,260

I've been noticing the last few days

727

00:41:04,010 --> 00:41:00,960

there you know I'm having to get out and

728

00:41:06,350 --> 00:41:04,020

you know actually my perfect particular

729

00:41:09,650 --> 00:41:06,360

job is listed under essential services

730

00:41:12,530 --> 00:41:09,660

here in Georgia so you know I'm out

731

00:41:13,730 --> 00:41:12,540

doing my stuff and you know people gotta

732

00:41:15,920 --> 00:41:13,740

have something you know if there's a

733

00:41:19,340 --> 00:41:15,930

storm and a branch falls on people's

734

00:41:20,690 --> 00:41:19,350

roof I I can send a team out and get

735

00:41:24,350 --> 00:41:20,700

them to face stuff that kind of stuff

736

00:41:27,410 --> 00:41:24,360

but yeah you know I've noticed the last

737

00:41:29,750 --> 00:41:27,420

couple of days this week each day the

738

00:41:32,450 --> 00:41:29,760

traffic has gotten a little bit heavier

739

00:41:33,830 --> 00:41:32,460

for a couple of weeks I was going hey

740

00:41:35,570 --> 00:41:33,840

this is kind of nice this is like

741

00:41:37,730 --> 00:41:35,580

normally what you'd be driving around on

742

00:41:40,940 --> 00:41:37,740

6 a.m. Sunday morning that's right

743

00:41:43,340 --> 00:41:40,950

you know but yeah you know when I leave

744

00:41:44,900 --> 00:41:43,350

my street I have to turn left onto a

745

00:41:46,460 --> 00:41:44,910

fairly busy you know I'm on a

746

00:41:49,250 --> 00:41:46,470

residential street I turned left on a

747

00:41:50,900 --> 00:41:49,260

fairly busy road and I usually just

748

00:41:52,670 --> 00:41:50,910

about always have to wait you know

749

00:41:54,230 --> 00:41:52,680

waiting for my hole to come along for a

750

00:41:56,630 --> 00:41:54,240

couple of weeks no waiting I come up

751
00:41:58,670 --> 00:41:56,640
there boom there's nobody there it's

752
00:41:59,990 --> 00:41:58,680
wide open I go this morning I had to

753
00:42:02,360 --> 00:42:00,000
wait so

754
00:42:04,010 --> 00:42:02,370
telling me that people are getting back

755
00:42:06,650 --> 00:42:04,020
out and I think it has to do with the

756
00:42:09,470 --> 00:42:06,660
fact that as the numbers are coming out

757
00:42:11,630 --> 00:42:09,480
we're realizing that you know when you

758
00:42:14,300 --> 00:42:11,640
look at the the number the percentage of

759
00:42:17,120 --> 00:42:14,310
deaths for example and realize that the

760
00:42:18,620 --> 00:42:17,130
the statistics are are going to be

761
00:42:21,290 --> 00:42:18,630
skewed because they're looking at

762
00:42:22,550 --> 00:42:21,300
hospital cases and in most most of those

763
00:42:24,890 --> 00:42:22,560

cases it's people who are already

764

00:42:27,620 --> 00:42:24,900

hospitalized with life critical

765

00:42:28,820 --> 00:42:27,630

conditions so you're not looking at the

766

00:42:30,710 --> 00:42:28,830

population as a whole

767

00:42:33,620 --> 00:42:30,720

any statistician can tell you that if

768

00:42:35,540 --> 00:42:33,630

you narrow down your your database too

769

00:42:37,340 --> 00:42:35,550

much you're it's very likely you're

770

00:42:38,660 --> 00:42:37,350

gonna get a bias in there and that's

771

00:42:40,430 --> 00:42:38,670

kind of what's happened I think that

772

00:42:41,840 --> 00:42:40,440

there's probably going to turn out to be

773

00:42:43,370 --> 00:42:41,850

millions of people that are walking

774

00:42:47,450 --> 00:42:43,380

around that have already had it

775

00:42:49,820 --> 00:42:47,460

including me and my wife I have been

776

00:42:51,860 --> 00:42:49,830

worked there's a videographer retired

777

00:42:53,480 --> 00:42:51,870

from CNN who's been documenting this

778

00:42:55,460 --> 00:42:53,490

building this restaurant that we're

779

00:42:57,740 --> 00:42:55,470

doing so he's there every day with his

780

00:42:59,570 --> 00:42:57,750

cameras and he's documenting it well in

781

00:43:01,820 --> 00:42:59,580

January he got real sick and this was

782

00:43:03,320 --> 00:43:01,830

before the it went to the ha I went to

783

00:43:05,660 --> 00:43:03,330

the doctor they diagnosed it as

784

00:43:07,700 --> 00:43:05,670

pneumonia and it just based upon you

785

00:43:10,250 --> 00:43:07,710

know physical visual symptoms but he had

786

00:43:13,070 --> 00:43:10,260

all the symptoms he had he had the dry

787

00:43:14,990 --> 00:43:13,080

cough the headaches the fever he was

788

00:43:17,030 --> 00:43:15,000

sick for two weeks and got better for a

789

00:43:19,850 --> 00:43:17,040

week then got sick for another week then

790

00:43:21,710 --> 00:43:19,860

he got better right after that which

791

00:43:23,780 --> 00:43:21,720

takes us like to the end of January and

792

00:43:24,380 --> 00:43:23,790

early February I got sick for a couple

793

00:43:28,220 --> 00:43:24,390

of weeks

794

00:43:31,250 --> 00:43:28,230

same damn symptoms right had the dry

795

00:43:34,250 --> 00:43:31,260

cough I had a four-day normally I had

796

00:43:35,720 --> 00:43:34,260

101 temperature for three or four days I

797

00:43:38,800 --> 00:43:35,730

had a headache

798

00:43:41,840 --> 00:43:38,810

I felt fatigued and achy I got over it

799

00:43:44,120 --> 00:43:41,850

went went oh four or five days don't

800

00:43:45,950 --> 00:43:44,130

pretty good and then it relapsed however

801
00:43:49,190 --> 00:43:45,960
the relapse was much shorter and much

802
00:43:51,500 --> 00:43:49,200
milder than the first almost like that

803
00:43:52,820 --> 00:43:51,510
the viral load it had gone down but

804
00:43:54,950 --> 00:43:52,830
there was just enough that it kind of

805
00:43:57,590 --> 00:43:54,960
kicked back in again which is very

806
00:44:00,770 --> 00:43:57,600
typical of the corona virus from what

807
00:44:03,440 --> 00:44:00,780
I've been able to ascertain my wife then

808
00:44:06,410 --> 00:44:03,450
got it of course now we got better and

809
00:44:07,910 --> 00:44:06,420
I've been feeling great ever since you

810
00:44:09,740 --> 00:44:07,920
know we were out today for our fitness

811
00:44:12,410 --> 00:44:09,750
walk and I was just turning up these

812
00:44:13,359 --> 00:44:12,420
hills and my wife says slow down slow

813
00:44:15,549 --> 00:44:13,369

down let's go

814

00:44:16,870 --> 00:44:15,559

you must feel good and I said I do

815

00:44:20,109 --> 00:44:16,880

that's right

816

00:44:21,940 --> 00:44:20,119

right alright so and now I've been

817

00:44:24,489 --> 00:44:21,950

talking to people about this very thing

818

00:44:26,589 --> 00:44:24,499

and I'm hearing reports I'm reading

819

00:44:29,920 --> 00:44:26,599

reports that this seems to be pretty

820

00:44:33,670 --> 00:44:29,930

common people have a lot of people who

821

00:44:36,519 --> 00:44:33,680

got ill to varying degrees in in January

822

00:44:38,950 --> 00:44:36,529

and February they got better what that

823

00:44:41,589 --> 00:44:38,960

means I think is were farther ahead on

824

00:44:45,390 --> 00:44:41,599

the herd immunity curves and then we

825

00:44:49,150 --> 00:44:45,400

thought we were we we did a conference

826

00:44:52,239 --> 00:44:49,160

back in February the beginning of

827

00:44:56,170 --> 00:44:52,249

February right as things started to hit

828

00:45:00,579 --> 00:44:56,180

the news right and it was at a at the

829

00:45:02,769 --> 00:45:00,589

Hilton Hotel in at LAX of all places and

830

00:45:04,989 --> 00:45:02,779

so at the Hilton we've got you know

831

00:45:09,969 --> 00:45:04,999

fifteen thousand attendees at this

832

00:45:14,259 --> 00:45:09,979

conference and it was something that we

833

00:45:15,640 --> 00:45:14,269

were thinking about a little bit we try

834

00:45:19,509 --> 00:45:15,650

to say in front of the news but the

835

00:45:22,059 --> 00:45:19,519

flight crews are coming in and staying

836

00:45:25,930 --> 00:45:22,069

the night at the hotel of four different

837

00:45:29,049 --> 00:45:25,940

airlines and certainly before for China

838

00:45:30,940 --> 00:45:29,059

for Taiwan Singapore and they're all

839

00:45:33,400 --> 00:45:30,950

coming in with their face masks and and

840

00:45:35,739 --> 00:45:33,410

you know me Randall I I can't help but

841

00:45:37,479 --> 00:45:35,749

talk to people and I'm going up there

842

00:45:40,239 --> 00:45:37,489

and asking them how they're doing it but

843

00:45:41,469 --> 00:45:40,249

looking back okay so after the

844

00:45:44,499 --> 00:45:41,479

conference is over

845

00:45:46,299 --> 00:45:44,509

a whole slew of our friends got sick

846

00:45:49,239 --> 00:45:46,309

with the flu nobody thought about

847

00:45:52,029 --> 00:45:49,249

coronavirus but I had friends saying

848

00:45:57,009 --> 00:45:52,039

this is the sickest I've ever been in my

849

00:45:59,620 --> 00:45:57,019

life right and I didn't get sick Rita

850

00:46:02,170 --> 00:45:59,630

didn't get sick a bunch of us didn't but

851
00:46:02,620 --> 00:46:02,180
we were asking for trouble I mean think

852
00:46:05,519 --> 00:46:02,630
about that

853
00:46:11,200 --> 00:46:05,529
we went literally went to ground zero

854
00:46:15,880 --> 00:46:11,210
LAX Hilton flight crews from China hotel

855
00:46:18,130 --> 00:46:15,890
and you know yep Atlanta here is a you

856
00:46:19,749 --> 00:46:18,140
know international hub so for months

857
00:46:22,690 --> 00:46:19,759
people flying in and out from all over

858
00:46:25,120 --> 00:46:22,700
including China so it wouldn't be too

859
00:46:27,040 --> 00:46:25,130
shocking to imagine that you know it

860
00:46:32,230 --> 00:46:27,050
actually showed up here

861
00:46:35,950 --> 00:46:32,240
you know late last year I I'm going up

862
00:46:39,790 --> 00:46:35,960
to the Bob was oh yeah go ahead okay you

863
00:46:41,590 --> 00:46:39,800

you were first I interrupted well I'm

864

00:46:42,880 --> 00:46:41,600

just gonna say that I think that the

865

00:46:47,310 --> 00:46:42,890

problem was is that there were people

866

00:46:50,620 --> 00:46:47,320

who are onto this early on excuse me and

867

00:46:54,100 --> 00:46:50,630

we should have been doing testing right

868

00:46:56,410 --> 00:46:54,110

immediately which didn't happen and you

869

00:46:58,900 --> 00:46:56,420

know when we're going back now to early

870

00:47:01,270 --> 00:46:58,910

February we lost about six weeks as far

871

00:47:02,920 --> 00:47:01,280

as testing because of Wien tested we the

872

00:47:05,340 --> 00:47:02,930

kind of knowing where the hot spots were

873

00:47:07,810 --> 00:47:05,350

and we would have known that people

874

00:47:13,090 --> 00:47:07,820

actually had it that were asymptomatic

875

00:47:15,600 --> 00:47:13,100

but and this is of course testing what

876

00:47:18,670 --> 00:47:15,610

happened was you had several hundred

877

00:47:23,530 --> 00:47:18,680

independent testing labs with testing

878

00:47:25,750 --> 00:47:23,540

kits ready to go out and the FDA clamped

879

00:47:27,280 --> 00:47:25,760

it down didn't let him ran well what

880

00:47:28,570 --> 00:47:27,290

they did was they said well you can do

881

00:47:31,150 --> 00:47:28,580

it but you've got to go jump through all

882

00:47:33,400 --> 00:47:31,160

of our bureaucratic hoops first you got

883

00:47:36,160 --> 00:47:33,410

to fill out all this paperwork and then

884

00:47:40,360 --> 00:47:36,170

you have to send the tests to us so that

885

00:47:40,780 --> 00:47:40,370

we can also test your tests but what was

886

00:47:42,520 --> 00:47:40,790

it

887

00:47:43,930 --> 00:47:42,530

you know the downside there is you know

888

00:47:46,390 --> 00:47:43,940

we need to do these tests you have to

889

00:47:49,300 --> 00:47:46,400

have these reagents and they're very

890

00:47:51,370 --> 00:47:49,310

short supply so what they were proposing

891

00:47:53,110 --> 00:47:51,380

to do then is well we're going to take

892

00:47:55,180 --> 00:47:53,120

your tests and we're going to test them

893

00:47:57,190 --> 00:47:55,190

but that might take two to four weeks to

894

00:47:58,990 --> 00:47:57,200

do and in the process we're also going

895

00:48:00,640 --> 00:47:59,000

to be using up critical supplies that

896

00:48:02,920 --> 00:48:00,650

are going to be needed to get these

897

00:48:06,250 --> 00:48:02,930

tests out there you know amongst the

898

00:48:07,840 --> 00:48:06,260

population so really I mean what

899

00:48:11,170 --> 00:48:07,850

happened was right off the bat the

900

00:48:13,810 --> 00:48:11,180

government botched it yeah yeah I think

901
00:48:16,750 --> 00:48:13,820
we're gonna look back and that's the

902
00:48:18,730 --> 00:48:16,760
analysis that we are going to have with

903
00:48:21,730 --> 00:48:18,740
this and the other thing that makes

904
00:48:23,680 --> 00:48:21,740
things really complicated I'm an

905
00:48:26,890 --> 00:48:23,690
American I love this country

906
00:48:31,450 --> 00:48:26,900
so are you or one of the freedoms that

907
00:48:35,410 --> 00:48:31,460
we have here is vacation right we can

908
00:48:38,500 --> 00:48:35,420
jump in the car drive fly do anything we

909
00:48:40,150 --> 00:48:38,510
want at it that's it it's a basic

910
00:48:43,539 --> 00:48:40,160
fundamental right here

911
00:48:45,700 --> 00:48:43,549
and it's difficult for state governments

912
00:48:47,819 --> 00:48:45,710
or for the federal government to go and

913
00:48:51,220 --> 00:48:47,829

impose those types of restrictions on

914

00:48:53,880 --> 00:48:51,230

Americans that that is the one if there

915

00:48:56,140 --> 00:48:53,890

is a fabric that holds us all together

916

00:48:58,420 --> 00:48:56,150

it's it's getting in your car and

917

00:49:00,910 --> 00:48:58,430

driving right that's what we do yeah

918

00:49:02,910 --> 00:49:00,920

right and so that's that's the other

919

00:49:06,160 --> 00:49:02,920

thing that makes it really difficult now

920

00:49:07,690 --> 00:49:06,170

staying on the subject but moving into

921

00:49:13,150 --> 00:49:07,700

what we're going to talk about tonight

922

00:49:16,359 --> 00:49:13,160

and the the coronavirus crisis pandemic

923

00:49:20,500 --> 00:49:16,369

whatever you want to call it has caused

924

00:49:23,109 --> 00:49:20,510

the planet to go on hold the hold button

925

00:49:25,750 --> 00:49:23,119

has been pushed every country has been

926
00:49:27,670 --> 00:49:25,760
affected everybody knows about it there

927
00:49:29,859 --> 00:49:27,680
isn't anybody on this planet that isn't

928
00:49:31,270 --> 00:49:29,869
aware of what's going on and has not

929
00:49:34,299 --> 00:49:31,280
been affected whether it's employment

930
00:49:36,970 --> 00:49:34,309
travel logistics it just doesn't matter

931
00:49:41,230 --> 00:49:36,980
were all affected the the world's been

932
00:49:43,930 --> 00:49:41,240
put on hold this change that is

933
00:49:48,630 --> 00:49:43,940
happening right now has also put a pause

934
00:49:52,990 --> 00:49:48,640
on pollution on war right on a

935
00:49:56,589 --> 00:49:53,000
negativity on crime criminals are

936
00:49:59,410 --> 00:49:56,599
staying at home terrorists terrorists

937
00:50:03,069 --> 00:49:59,420
are afraid of coronavirus too and so

938
00:50:06,930 --> 00:50:03,079

anyway with earth changes that we have

939

00:50:09,549 --> 00:50:06,940

been seeing on both poles and see

940

00:50:12,069 --> 00:50:09,559

temperature changes in the ocean and and

941

00:50:14,490 --> 00:50:12,079

the melting of ice caps and all of these

942

00:50:19,089 --> 00:50:14,500

changes that we have been seeing

943

00:50:23,470 --> 00:50:19,099

globally will this pause with pollution

944

00:50:25,900 --> 00:50:23,480

and activity and logistics would this

945

00:50:30,609 --> 00:50:25,910

cause something to change in the

946

00:50:32,950 --> 00:50:30,619

environment of long term long term I you

947

00:50:35,019 --> 00:50:32,960

know I think that the forces that are

948

00:50:37,620 --> 00:50:35,029

affecting and influencing the

949

00:50:40,990 --> 00:50:37,630

environment are on such a grand scale

950

00:50:44,079 --> 00:50:41,000

relative to the human scale that I would

951
00:50:47,260 --> 00:50:44,089
I would probably be doubtful that it

952
00:50:48,849 --> 00:50:47,270
would in the sense that you know it's

953
00:50:50,589 --> 00:50:48,859
just in the same way we've been getting

954
00:50:52,150 --> 00:50:50,599
back to some of the subjects you and I

955
00:50:55,089 --> 00:50:52,160
talk about a lot

956
00:50:58,089 --> 00:50:55,099
you know if you had a environmental

957
00:51:00,789 --> 00:50:58,099
catastrophe whether it was you know a

958
00:51:03,420 --> 00:51:00,799
solar related whether it was asteroid or

959
00:51:06,670 --> 00:51:03,430
comet impacts whether it was volcanic

960
00:51:09,279 --> 00:51:06,680
all of these things and you had a

961
00:51:11,260 --> 00:51:09,289
widespread social collapsed which is

962
00:51:14,309 --> 00:51:11,270
certainly now something that that's

963
00:51:17,109 --> 00:51:14,319

emerging from the evidence of the

964

00:51:20,380 --> 00:51:17,119

geological and paleontological and

965

00:51:22,390 --> 00:51:20,390

archaeological records essentially what

966

00:51:25,420 --> 00:51:22,400

would happen is that you go a few

967

00:51:28,510 --> 00:51:25,430

centuries in the future and it would be

968

00:51:30,760 --> 00:51:28,520

difficult to find any trace of all of

969

00:51:32,079 --> 00:51:30,770

our handiwork you know there have been

970

00:51:34,000 --> 00:51:32,089

some interesting studies and

971

00:51:36,609 --> 00:51:34,010

documentaries done on what would happen

972

00:51:38,920 --> 00:51:36,619

if just some by some magical process

973

00:51:42,279 --> 00:51:38,930

humans suddenly just disappeared from

974

00:51:44,950 --> 00:51:42,289

the planet and what would happen to the

975

00:51:47,620 --> 00:51:44,960

you know this this infrastructure of

976
00:51:49,150 --> 00:51:47,630
civilization that we've created and what

977
00:51:52,150 --> 00:51:49,160
would happen is that it would begin to

978
00:51:54,220 --> 00:51:52,160
immediately deteriorate without constant

979
00:51:55,420 --> 00:51:54,230
upkeep and maintenance you know all of

980
00:51:57,099 --> 00:51:55,430
our interests are you know I'm in the

981
00:52:00,190 --> 00:51:57,109
building business I certainly do know

982
00:52:03,130 --> 00:52:00,200
how rapidly our buildings can begin to

983
00:52:05,980 --> 00:52:03,140
degrade if they're not kept up and in

984
00:52:08,950 --> 00:52:05,990
it's an accelerating process so it may

985
00:52:11,500 --> 00:52:08,960
start slow but it picks up momentum as

986
00:52:14,230 --> 00:52:11,510
it goes you know so what would happen

987
00:52:16,720 --> 00:52:14,240
for example is is the you know our big

988
00:52:19,779 --> 00:52:16,730

buildings are have to be grounded and

989

00:52:22,210 --> 00:52:19,789

that prevents you know fires caused by

990

00:52:24,609 --> 00:52:22,220

lightning strikes well the the the

991

00:52:27,519 --> 00:52:24,619

copper cables that ground our large

992

00:52:30,880 --> 00:52:27,529

buildings have a lifespan of a century

993

00:52:33,460 --> 00:52:30,890

or two so once those go out I'll say

994

00:52:35,410 --> 00:52:33,470

I'll say a couple of centuries to to be

995

00:52:36,730 --> 00:52:35,420

liberal with it once those goes out

996

00:52:39,160 --> 00:52:36,740

those buildings are now going to be

997

00:52:40,750 --> 00:52:39,170

susceptible to being struck by lightning

998

00:52:42,460 --> 00:52:40,760

which is going to happen all the time

999

00:52:44,349 --> 00:52:42,470

because they're tall buildings well

1000

00:52:46,299 --> 00:52:44,359

those lightning strikes are going to are

1001
00:52:49,089 --> 00:52:46,309
going to cause damage considerable

1002
00:52:52,329 --> 00:52:49,099
damage and what I'll do is it begins to

1003
00:52:55,690 --> 00:52:52,339
open up the building to environmental

1004
00:52:58,510 --> 00:52:55,700
forces the wind the rain the cold that

1005
00:53:02,079 --> 00:52:58,520
you know the freeze-thaw cycle what

1006
00:53:04,840 --> 00:53:02,089
would happen is after about three to

1007
00:53:08,260 --> 00:53:04,850
five hundred years the most

1008
00:53:10,600 --> 00:53:08,270
of our cities would now be rapidly

1009
00:53:12,580 --> 00:53:10,610
turning back into jungles just like

1010
00:53:15,070 --> 00:53:12,590
we're now you know discovering the lost

1011
00:53:18,160 --> 00:53:15,080
cities in the Amazon basin that have

1012
00:53:20,260 --> 00:53:18,170
been hidden from us for you know for

1013
00:53:21,670 --> 00:53:20,270

centuries but these these cities are

1014

00:53:24,760 --> 00:53:21,680

going to be one in two thousand years

1015

00:53:27,100 --> 00:53:24,770

old right if we were looking back if

1016

00:53:29,830 --> 00:53:27,110

future archaeologists are looking back

1017

00:53:31,120 --> 00:53:29,840

from ten thousand years from now they're

1018

00:53:33,190 --> 00:53:31,130

not going to find much what's going to

1019

00:53:36,610 --> 00:53:33,200

happen is our cities are going to have

1020

00:53:39,700 --> 00:53:36,620

have degraded into rubble soil will have

1021

00:53:41,680 --> 00:53:39,710

formed on top trees plants wherever

1022

00:53:43,990 --> 00:53:41,690

today on the latitude in the environment

1023

00:53:48,750 --> 00:53:44,000

will have taken over they will quickly

1024

00:53:51,040 --> 00:53:48,760

begin to decompose the the materials and

1025

00:53:52,840 --> 00:53:51,050

it would be hard-pressed for the

1026

00:53:55,420 --> 00:53:52,850

archaeologists of ten thousand years

1027

00:53:57,640 --> 00:53:55,430

from now to even know that you know

1028

00:54:00,370 --> 00:53:57,650

under this under the forest floor under

1029

00:54:03,760 --> 00:54:00,380

the jungle floor that there are the

1030

00:54:08,440 --> 00:54:03,770

remains of a city in fact it was said by

1031

00:54:10,690 --> 00:54:08,450

one of the authors of a book about the

1032

00:54:12,400 --> 00:54:10,700

exact name of it but the the essence of

1033

00:54:15,370 --> 00:54:12,410

it was a world without humans what would

1034

00:54:18,730 --> 00:54:15,380

happen and he was saying that in ten

1035

00:54:21,220 --> 00:54:18,740

thousand years if you know a visitor

1036

00:54:22,990 --> 00:54:21,230

from outer space or you know a future

1037

00:54:25,660 --> 00:54:23,000

archaeologist looking for a remnant of

1038

00:54:28,150 --> 00:54:25,670

our civilization a couple of things that

1039

00:54:30,340 --> 00:54:28,160

would probably be indicators should be

1040

00:54:32,440 --> 00:54:30,350

the what's left of the great pyramids

1041

00:54:36,550 --> 00:54:32,450

and Mount Rushmore it wouldn't be much

1042

00:54:39,100 --> 00:54:36,560

more than that but so you know that's

1043

00:54:41,470 --> 00:54:39,110

even without catastrophes intervening

1044

00:54:43,900 --> 00:54:41,480

that's just the normal pace of things

1045

00:54:45,970 --> 00:54:43,910

throw a couple of big catastrophes in

1046

00:54:48,930 --> 00:54:45,980

there and you've pretty much completed

1047

00:54:52,210 --> 00:54:48,940

the job are you suggesting that if the

1048

00:54:57,490 --> 00:54:52,220

civilization five hundred thousand years

1049

00:55:00,820 --> 00:54:57,500

ago had a city like New York right we

1050

00:55:03,190 --> 00:55:00,830

wouldn't know we would not know I'm

1051
00:55:05,860 --> 00:55:03,200
saying that if ten thousand years ago

1052
00:55:08,020 --> 00:55:05,870
right no I understand that I understand

1053
00:55:09,610 --> 00:55:08,030
the ten thousand new your number going

1054
00:55:12,700 --> 00:55:09,620
back say five hundred thousand years

1055
00:55:14,470 --> 00:55:12,710
there would be absolutely no evidence of

1056
00:55:16,560 --> 00:55:14,480
anything we would really have to dig for

1057
00:55:18,960 --> 00:55:16,570
it we don't

1058
00:55:21,120 --> 00:55:18,970
even if we dug it up geologists would

1059
00:55:22,920 --> 00:55:21,130
look at and say oh this is Beretta which

1060
00:55:25,020 --> 00:55:22,930
is basically just broken rock ah

1061
00:55:27,270 --> 00:55:25,030
cemented together with you know some

1062
00:55:29,430 --> 00:55:27,280
kind of a fluid I silica that came in

1063
00:55:31,470 --> 00:55:29,440

and they would be looking at it and and

1064

00:55:34,110 --> 00:55:31,480

and not and understand oh this is the

1065

00:55:35,880 --> 00:55:34,120

remnants of concrete here this is

1066

00:55:37,920 --> 00:55:35,890

something this is a conglomerated rock

1067

00:55:39,810 --> 00:55:37,930

they would declare and that would be the

1068

00:55:42,690 --> 00:55:39,820

end of the discussion now and you're

1069

00:55:44,850 --> 00:55:42,700

also suggesting that you and I need to

1070

00:55:48,420 --> 00:55:44,860

start a copper grounding business

1071

00:55:50,070 --> 00:55:48,430

because it's a growth industry and we

1072

00:55:55,350 --> 00:55:50,080

need to go across the country and start

1073

00:55:57,450 --> 00:55:55,360

pinching this idea well there are there

1074

00:55:59,760 --> 00:55:57,460

are people that's what they do right you

1075

00:56:01,770 --> 00:55:59,770

know my wife is a Natalie she is a

1076

00:56:04,080 --> 00:56:01,780

master electrician she has you know an

1077

00:56:06,750 --> 00:56:04,090

unlimited masters Georgia state master's

1078

00:56:08,580 --> 00:56:06,760

license so she's very knowledgeable

1079

00:56:12,780 --> 00:56:08,590

about how all of this works

1080

00:56:15,330 --> 00:56:12,790

but yeah you know grounding is essential

1081

00:56:17,280 --> 00:56:15,340

to any building that has an electrical

1082

00:56:19,020 --> 00:56:17,290

system and if you don't ground it you're

1083

00:56:20,610 --> 00:56:19,030

gonna be in trouble just you know what

1084

00:56:22,830 --> 00:56:20,620

the grounding system does is it takes

1085

00:56:25,220 --> 00:56:22,840

that charge and dissipates it into the

1086

00:56:28,440 --> 00:56:25,230

earth rather into the building itself

1087

00:56:31,410 --> 00:56:28,450

now when we come back after the break

1088

00:56:33,510 --> 00:56:31,420

we're going to be discussing entropy on

1089

00:56:36,540 --> 00:56:33,520

a bunch of different levels and from

1090

00:56:40,020 --> 00:56:36,550

different angles for you when you

1091

00:56:44,790 --> 00:56:40,030

discuss entropy what is what is the

1092

00:56:46,740 --> 00:56:44,800

Randall Carlson definition well you know

1093

00:56:48,870 --> 00:56:46,750

there's the definition of physics but

1094

00:56:50,580 --> 00:56:48,880

how it impacts me personally is exactly

1095

00:56:52,830 --> 00:56:50,590

what we've just been talking about it

1096

00:56:54,410 --> 00:56:52,840

because when I if I build a new

1097

00:56:59,100 --> 00:56:54,420

structure a new building a new house

1098

00:57:01,770 --> 00:56:59,110

obviously I'm taking measures to reduce

1099

00:57:04,500 --> 00:57:01,780

the effects of entropy as much as

1100

00:57:06,300 --> 00:57:04,510

possible if I'm doing a retrofit then

1101

00:57:09,960 --> 00:57:06,310

what I'm doing is I'm going in and

1102

00:57:12,510 --> 00:57:09,970

trying to undo the effects of entropy on

1103

00:57:14,730 --> 00:57:12,520

that structure because I mean that's

1104

00:57:17,400 --> 00:57:14,740

what happens when when a structure

1105

00:57:20,040 --> 00:57:17,410

begins to degrade I mean that is entropy

1106

00:57:22,440 --> 00:57:20,050

right there so I pretty much deal with

1107

00:57:25,650 --> 00:57:22,450

that you know an empirical basis every

1108

00:57:27,540 --> 00:57:25,660

single day in my my day to day job you

1109

00:57:29,720 --> 00:57:27,550

know let's figure out let's you know

1110

00:57:32,090 --> 00:57:29,730

let's caulk this crack you

1111

00:57:35,690 --> 00:57:32,100

because if we don't entropy is going to

1112

00:57:37,310 --> 00:57:35,700

get in there and cause problems every

1113

00:57:39,230 --> 00:57:37,320

known entropy can take many different

1114

00:57:43,790 --> 00:57:39,240

forms that's right that's right

1115

00:57:47,660 --> 00:57:43,800

and so anything that we have and it can

1116

00:57:51,920 --> 00:57:47,670

be anything it starts out simple it

1117

00:57:55,130 --> 00:57:51,930

begins its life simply but it will

1118

00:57:58,640 --> 00:57:55,140

eventually come apart and you have to

1119

00:58:01,480 --> 00:57:58,650

prevent that that's right what we're

1120

00:58:06,200 --> 00:58:01,490

trying to do is slow down the inevitable

1121

00:58:08,120 --> 00:58:06,210

have do you think we it's got about 60

1122

00:58:13,220 --> 00:58:08,130

seconds do you think we are at a point

1123

00:58:16,490 --> 00:58:13,230

now in 2020 that we may be able to

1124

00:58:19,220 --> 00:58:16,500

realize what is going on and that we can

1125

00:58:25,310 --> 00:58:19,230

circumvent and somehow get out in front

1126
00:58:27,859 --> 00:58:25,320
of entropy on a global scale well I you

1127
00:58:30,710 --> 00:58:27,869
know I don't I wouldn't be too

1128
00:58:32,630 --> 00:58:30,720
optimistic about that what I would do is

1129
00:58:38,060 --> 00:58:32,640
think that we are getting better and

1130
00:58:40,250 --> 00:58:38,070
better at mitigating the effects of

1131
00:58:43,370 --> 00:58:40,260
entropy now where that how far that will

1132
00:58:47,330 --> 00:58:43,380
go I don't know but I do think that we

1133
00:58:50,690 --> 00:58:47,340
are getting ahead of the curve a bit on

1134
00:58:52,220 --> 00:58:50,700
that because again like I say in my

1135
00:58:54,620 --> 00:58:52,230
business we're always looking you know

1136
00:58:58,340 --> 00:58:54,630
for quickly say like back in the early

1137
00:58:59,930 --> 00:58:58,350
70s we were building geodesic domes okay

1138
00:59:01,760 --> 00:58:59,940

a lot of people don't do these it domes

1139

00:59:04,520 --> 00:59:01,770

but the problem was is they leaked

1140

00:59:06,320 --> 00:59:04,530

really bad and so there was a big

1141

00:59:08,810 --> 00:59:06,330

popular movement to building geodesic

1142

00:59:10,609 --> 00:59:08,820

domes but then once people discovered it

1143

00:59:13,010 --> 00:59:10,619

was hard to keep them weatherproof and

1144

00:59:15,890 --> 00:59:13,020

and leak proof they fell out of favor

1145

00:59:17,840 --> 00:59:15,900

well in the interim the last 40 years

1146

00:59:20,450 --> 00:59:17,850

all kinds of new technologies have

1147

00:59:22,490 --> 00:59:20,460

evolved that make don't buildings you

1148

00:59:24,370 --> 00:59:22,500

know Buckminster forward type domes much

1149

00:59:27,859 --> 00:59:24,380

more viable because now we have

1150

00:59:30,380 --> 00:59:27,869

materials that withstand the effects of

1151
00:59:33,170 --> 00:59:30,390
entropy a lot more effectively so we can

1152
00:59:34,970 --> 00:59:33,180
employ those and you know conceivably

1153
00:59:37,070 --> 00:59:34,980
build domes again that don't leak so

1154
00:59:39,950 --> 00:59:37,080
readily like they did 40 and 50 years

1155
00:59:42,750 --> 00:59:39,960
ago so maybe that's an example let's

1156
00:59:45,849 --> 00:59:42,760
take on the optimist that I am

1157
00:59:48,609 --> 00:59:45,859
let's take our break right here our

1158
00:59:51,820 --> 00:59:48,619
guest tonight is oh I just hit the wrong

1159
00:59:53,950 --> 00:59:51,830
our guest tonight is Randall Carlson the

1160
00:59:56,050 --> 00:59:53,960
beard of knowledge we'll be right back

1161
00:59:58,599 --> 00:59:56,060
after this short break tonight we're

1162
01:00:01,690 --> 00:59:58,609
going to discuss entropy and not only

1163
01:00:04,570 --> 01:00:01,700

with our future but in the past and what

1164

01:00:07,210 --> 01:00:04,580

we have learned and what we can do to

1165

01:00:08,770 --> 01:00:07,220

move forward I'm Yours Jimmy church this

1166

01:00:12,190 --> 01:00:08,780

is fade to black on the game changer

1167

01:00:29,539 --> 01:00:12,200

network and K G RA the planet stay with

1168

01:00:33,539 --> 01:00:31,620

this is fade to black

1169

01:00:37,229 --> 01:00:33,549

with Jimmy Church on the game changer

1170

01:00:39,019 --> 01:00:37,239

radio network and K GRA the global radio

1171

01:00:42,329 --> 01:00:39,029

alliance

1172

01:00:45,660 --> 01:00:42,339

this is kera digital broadcasting

1173

01:00:49,200 --> 01:00:45,670

station Salt Lake City Utah Van Buren

1174

01:00:50,849 --> 01:00:49,210

Arkansas hello my name is Billy Carson

1175

01:00:52,890 --> 01:00:50,859

and I'm a best-selling author and the

1176

01:00:54,690 --> 01:00:52,900

founder of forbidden knowledge TV

1177

01:00:56,940 --> 01:00:54,700

together with my team we have built a

1178

01:00:58,650 --> 01:00:56,950

all new conscious preemie TV platform

1179

01:01:00,539 --> 01:00:58,660

designed with heavy family member in

1180

01:01:01,920 --> 01:01:00,549

mind if you have ever wanted to travel

1181

01:01:03,539 --> 01:01:01,930

the world and attend lectures and

1182

01:01:05,329 --> 01:01:03,549

workshops from your favorite speakers we

1183

01:01:08,069 --> 01:01:05,339

weren't able to look no further

1184

01:01:10,019 --> 01:01:08,079

forbidden knowledge dot TV there are

1185

01:01:11,910 --> 01:01:10,029

dozens of workshops and lectures from

1186

01:01:13,979 --> 01:01:11,920

speakers you know and love we have also

1187

01:01:15,839 --> 01:01:13,989

included amazing categories to ensure

1188

01:01:18,299 --> 01:01:15,849

that your consciousness is entertained

1189

01:01:20,519 --> 01:01:18,309

and elevating on a daily basis amazing

1190

01:01:23,039 --> 01:01:20,529

interviews ancient history essential

1191

01:01:25,470 --> 01:01:23,049

knowledge wisdom teachings documentaries

1192

01:01:27,839 --> 01:01:25,480

conspiracies mysteries health and

1193

01:01:30,239 --> 01:01:27,849

fitness conscious cooking meditations

1194

01:01:32,400 --> 01:01:30,249

finance yoga and so much more to start

1195

01:01:33,720 --> 01:01:32,410

your free trial on any mobile device or

1196

01:01:37,049 --> 01:01:33,730

computer surf they're forbidden

1197

01:01:39,210 --> 01:01:37,059

knowledge TV that's forbidden knowledge

1198

01:01:42,779 --> 01:01:39,220

with the number-four forbidden knowledge

1199

01:01:45,680 --> 01:01:42,789

TV again visit forbidden knowledge TV

1200

01:01:51,269 --> 01:01:48,470

introducing the new surfer music app

1201

01:01:54,809 --> 01:01:51,279

listen fade or not you know I love my

1202

01:01:57,720 --> 01:01:54,819

music this is my go-to for all things

1203

01:02:00,029 --> 01:01:57,730

notes the surfer hat is a brand new

1204

01:02:02,099 --> 01:02:00,039

concept of music listening surfer is

1205

01:02:04,019 --> 01:02:02,109

free providing unlimited access to

1206

01:02:06,329 --> 01:02:04,029

thousands of live streaming radio

1207

01:02:08,069 --> 01:02:06,339

stations surfer is an exciting

1208

01:02:10,690 --> 01:02:08,079

interactive listening experience

1209

01:02:13,569 --> 01:02:10,700

discovery and surprise of built right

1210

01:02:16,300 --> 01:02:13,579

surfer is your destination to discover

1211

01:02:18,790 --> 01:02:16,310

and rediscover great live streaming

1212

01:02:21,040 --> 01:02:18,800

music it features high quality audio

1213

01:02:22,690 --> 01:02:21,050

streams free access to music from

1214

01:02:25,510 --> 01:02:22,700

thousands of live streaming radio

1215

01:02:28,000 --> 01:02:25,520

stations unlimited listening unlimited

1216

01:02:29,890 --> 01:02:28,010

skipping you get a music visualizer and

1217

01:02:31,990 --> 01:02:29,900

you can also select your favorite

1218

01:02:33,339 --> 01:02:32,000

channels get it at the Apple App Store

1219

01:02:36,640 --> 01:02:33,349

or Google Play

1220

01:02:38,440 --> 01:02:36,650

just search surfer music or click on the

1221

01:02:44,829 --> 01:02:38,450

surfer Banner at Jimmy teachers radio

1222

01:02:47,500 --> 01:02:44,839

com go back late a fee let's get this

1223

01:02:49,480 --> 01:02:47,510

man to the ER stat right away doctor we

1224

01:02:51,819 --> 01:02:49,490

see this every day heart attack or

1225

01:02:53,920 --> 01:02:51,829

angina pain due to blocked and clogged

1226

01:02:56,200 --> 01:02:53,930

arteries chelation can remove

1227

01:02:57,940 --> 01:02:56,210

obstructions or blockages from arteries

1228

01:02:58,810 --> 01:02:57,950

and help avoid painful and expensive

1229

01:03:01,030 --> 01:02:58,820

surgery

1230

01:03:02,950 --> 01:03:01,040

now there's angio prim it's a liquid

1231

01:03:04,900 --> 01:03:02,960

oral chelation product that you take

1232

01:03:07,450 --> 01:03:04,910

with juice you start to feel the results

1233

01:03:09,430 --> 01:03:07,460

fast angio primm increases blood flow

1234

01:03:11,589 --> 01:03:09,440

all over the body and that means more

1235

01:03:14,290 --> 01:03:11,599

energy and strength to take on the day

1236

01:03:16,440 --> 01:03:14,300

with less aches and pains 60 years of

1237

01:03:19,450 --> 01:03:16,450

research has gone into chelation and

1238

01:03:21,730 --> 01:03:19,460

angiogram is the result a safe and easy

1239

01:03:23,890 --> 01:03:21,740

way to unblock your veins and arteries

1240

01:03:25,750 --> 01:03:23,900

from buildup that slow circulation

1241

01:03:26,770 --> 01:03:25,760

shaping dr. Jones please report to the

1242

01:03:30,520 --> 01:03:26,780

room right away

1243

01:03:33,849 --> 01:03:30,530

log on now to angio prim calm that's ang

1244

01:03:36,250 --> 01:03:33,859

IO PR I am calm or to speak with a

1245

01:03:38,170 --> 01:03:36,260

trained consultant give angio prima call

1246

01:03:40,599 --> 01:03:38,180

at nine fifty four eight eight to

1247

01:03:42,520 --> 01:03:40,609

seventy two twenty one that's nine fifty

1248

01:03:49,950 --> 01:03:42,530

four eight eight to seventy two twenty

1249

01:03:54,460 --> 01:03:52,600

hi this is race Hobbs here repping the

1250

01:03:57,460 --> 01:03:54,470

planet and you're listening to my good

1251

01:03:59,980 --> 01:03:57,470

friend Jimmy Church fade to black

1252

01:04:04,570 --> 01:03:59,990

on the game changer network and the kgr

1253

01:04:06,730 --> 01:04:04,580

a digital broadcast station this is Toby

1254

01:04:27,700 --> 01:04:06,740

Kebbell you're listening to Jimmy Church

1255

01:04:29,710 --> 01:04:27,710

radio calm this is Jimmy Church of fade

1256

01:04:31,570 --> 01:04:29,720

to black and you can become an official

1257

01:04:34,570 --> 01:04:31,580

fader not by just going to our

1258

01:04:38,560 --> 01:04:34,580

membership section at Jimmy Church radio

1259

01:04:40,600 --> 01:04:38,570

calm hello this is Serena right kayla

1260

01:04:42,610 --> 01:04:40,610

from conscious life Expo and you're

1261

01:04:45,100 --> 01:04:42,620

listening to fade to black with Jimmy

1262

01:04:47,250 --> 01:04:45,110

Church who holds the Lucky Pony record

1263

01:04:52,330 --> 01:04:47,260

for the best astrological chart since

1264

01:04:53,710 --> 01:04:52,340

1963 true story this is Micah Hank's of

1265

01:04:55,420 --> 01:04:53,720

the gray lien report and you're

1266

01:04:57,040 --> 01:04:55,430

listening to Jimmy church on fade to

1267

01:04:59,110 --> 01:04:57,050

black across the globe on the

1268

01:05:21,550 --> 01:04:59,120

GameChanger radio network and the one

1269

01:05:26,150 --> 01:05:24,320

all right welcome back fade to black I'm

1270

01:05:29,090 --> 01:05:26,160

arrows to be Church tonight Randall

1271

01:05:33,230 --> 01:05:29,100

Carlson is here we're discussing entropy

1272

01:05:35,690 --> 01:05:33,240

tonight and this is the deal it's a I

1273

01:05:38,690 --> 01:05:35,700

feel like I'm going to school and I want

1274

01:05:41,570 --> 01:05:38,700

you guys to feel the same way

1275

01:05:45,080 --> 01:05:41,580

just listen take some notes and enjoy

1276

01:05:48,380 --> 01:05:45,090

the conversation and no pressure Randall

1277

01:05:52,130 --> 01:05:48,390

but you know everybody really really

1278

01:05:53,540 --> 01:05:52,140

holds you up there and we appreciate you

1279

01:05:55,190 --> 01:05:53,550

bringing the knowledge every time you're

1280

01:05:59,210 --> 01:05:55,200

on the show and everything that you do

1281

01:06:01,340 --> 01:05:59,220

out there and when we discuss entropy

1282

01:06:04,970 --> 01:06:01,350

and discuss history with somebody like

1283

01:06:09,770 --> 01:06:04,980

you what comes to mind when you want to

1284

01:06:14,330 --> 01:06:09,780

present an example of entropy from the

1285

01:06:19,100 --> 01:06:14,340

historical record well then clearly that

1286

01:06:23,240 --> 01:06:19,110

would be the decline of ecosystems that

1287

01:06:25,760 --> 01:06:23,250

is something that I you know look at

1288

01:06:27,950 --> 01:06:25,770

pretty closely and the effects that they

1289

01:06:31,280 --> 01:06:27,960

would have on human civilizations human

1290

01:06:35,630 --> 01:06:31,290

societies that's been kind of the the

1291

01:06:38,120 --> 01:06:35,640

area of my focus for a long time now you

1292

01:06:43,220 --> 01:06:38,130

know or nearly entropy is considered to

1293

01:06:46,040 --> 01:06:43,230

be a rather gradual process a gradual

1294

01:06:49,630 --> 01:06:46,050

decline into disorder but there are

1295

01:06:52,790 --> 01:06:49,640

times when it seems like the entropic

1296

01:06:56,030 --> 01:06:52,800

process is accelerated by orders of

1297

01:07:00,310 --> 01:06:56,040

magnitude and this is mostly brought

1298

01:07:03,470 --> 01:07:00,320

about by injections of disorder

1299

01:07:07,090 --> 01:07:03,480

originating from outside what we yeah

1300

01:07:09,860 --> 01:07:07,100

what we would call exegetically or

1301

01:07:13,070 --> 01:07:09,870

origin aided in the sense that for

1302

01:07:16,460 --> 01:07:13,080

example an asteroid impact will

1303

01:07:18,980 --> 01:07:16,470

completely will inject extraordinary

1304

01:07:21,380 --> 01:07:18,990

amounts of disorder into the balance of

1305

01:07:24,200 --> 01:07:21,390

nature in literally in a matter of

1306

01:07:26,660 --> 01:07:24,210

seconds so there's an example that's the

1307

01:07:29,570 --> 01:07:26,670

kind of thing I'm looking at a coronal

1308

01:07:32,590 --> 01:07:29,580

mass ejection on the scale of say a

1309

01:07:35,589 --> 01:07:32,600

Carrington event could do the same thing

1310

01:07:38,240 --> 01:07:35,599

you know there's evidence that the Sun

1311

01:07:41,960 --> 01:07:38,250

actually might be far less stable than

1312

01:07:46,210 --> 01:07:41,970

we've imagined and there could be events

1313

01:07:49,809 --> 01:07:46,220

that are solar in origin that can also

1314

01:07:54,049 --> 01:07:49,819

degrade organized systems in a very

1315

01:07:57,289 --> 01:07:54,059

rapid fashion so I'm of the mind that

1316

01:08:01,460 --> 01:07:57,299

what we need to do is to basically be

1317

01:08:04,519 --> 01:08:01,470

prepared for these these interruptions

1318

01:08:07,010 --> 01:08:04,529

in the normal continuum of change the

1319

01:08:11,200 --> 01:08:07,020

things that would accelerate the

1320

01:08:13,609 --> 01:08:11,210

breakdown the decline into disorder and

1321

01:08:15,680 --> 01:08:13,619

you know I don't know if what we're in

1322

01:08:20,320 --> 01:08:15,690

going into right now would qualify

1323

01:08:23,269 --> 01:08:20,330

really because you know we just you know

1324

01:08:25,399 --> 01:08:23,279

actually we're seeing that the social

1325

01:08:28,760 --> 01:08:25,409

systems are breaking down in a sense

1326

01:08:30,709 --> 01:08:28,770

however you know once the once the lock

1327

01:08:34,939 --> 01:08:30,719

downs are lifted I think we're going to

1328

01:08:38,510 --> 01:08:34,949

see a very rapid return people are

1329

01:08:41,300 --> 01:08:38,520

anxious to get back out there and engage

1330

01:08:43,070 --> 01:08:41,310

in their anti-entropic activities which

1331

01:08:46,189 --> 01:08:43,080

is a way what you can think of his work

1332

01:08:48,229 --> 01:08:46,199

all work in effect is trying to counter

1333

01:08:48,890 --> 01:08:48,239

the effects of entropy in the healthcare

1334

01:08:51,320 --> 01:08:48,900

system

1335

01:08:53,809 --> 01:08:51,330

it's trying to counter the effects of

1336

01:08:56,780 --> 01:08:53,819

entropy in our physiological and

1337

01:08:58,729 --> 01:08:56,790

biological systems right what I do we're

1338

01:09:00,979 --> 01:08:58,739

trying to do it in our systems of

1339

01:09:03,470 --> 01:09:00,989

housing and shelter and architecture and

1340

01:09:06,649 --> 01:09:03,480

so on but pretty much most of what

1341

01:09:09,430 --> 01:09:06,659

people do on some level or another is

1342

01:09:13,160 --> 01:09:09,440

trying to counter the effects of entropy

1343

01:09:17,809 --> 01:09:13,170

but what we really need to be thinking

1344

01:09:19,849 --> 01:09:17,819

about is I believe what occurred to our

1345

01:09:21,919 --> 01:09:19,859

ancestors throughout these hundred and

1346

01:09:25,130 --> 01:09:21,929

fifty or two hundred thousand years that

1347

01:09:27,260 --> 01:09:25,140

we Homo sapiens sapiens modern humans

1348

01:09:31,160 --> 01:09:27,270

have been living on this planet and we

1349

01:09:34,160 --> 01:09:31,170

have seen multiple injections of intense

1350

01:09:37,640 --> 01:09:34,170

entropy the most recent of course is the

1351

01:09:40,340 --> 01:09:37,650

one that's now getting a lot of overdue

1352

01:09:43,010 --> 01:09:40,350

attention long overdue attention which

1353

01:09:45,559 --> 01:09:43,020

are the changes that occurred in the so

1354

01:09:48,510 --> 01:09:45,569

called Younger Dryas that you're I'm

1355

01:09:52,600 --> 01:09:48,520

sure quite familiar with that term

1356

01:09:57,310 --> 01:09:52,610

what happened there was you know a huge

1357

01:10:00,640 --> 01:09:57,320

amount of disorder was injected into the

1358

01:10:03,340 --> 01:10:00,650

the planetary system and the result of

1359

01:10:06,100 --> 01:10:03,350

that was a almost total decapitation of

1360

01:10:10,090 --> 01:10:06,110

the food chain as an example you know

1361

01:10:13,390 --> 01:10:10,100

when we the planet lost over a hundred

1362

01:10:18,390 --> 01:10:13,400

species of megafauna worldwide that had

1363

01:10:22,510 --> 01:10:18,400

taken many many millennia to evolve over

1364

01:10:25,570 --> 01:10:22,520

you know the slow evolutionary processes

1365

01:10:28,000 --> 01:10:25,580

we also saw the rapid disappearance of

1366

01:10:32,500 --> 01:10:28,010

the North American Clovis culture which

1367

01:10:34,530 --> 01:10:32,510

showed up quite suddenly around thirteen

1368

01:10:37,060 --> 01:10:34,540

thousand three hundred years ago

1369

01:10:38,950 --> 01:10:37,070

lasted for four hundred years and then

1370

01:10:40,120 --> 01:10:38,960

just very suddenly disappeared right

1371

01:10:44,710 --> 01:10:40,130

along with the megafauna

1372

01:10:49,870 --> 01:10:44,720

and we see major changes in the order of

1373

01:10:54,340 --> 01:10:49,880

nature massive climatic shifts geography

1374

01:10:56,830 --> 01:10:54,350

of large areas competing completely

1375

01:11:00,510 --> 01:10:56,840

wiped out and rearranged over a period

1376

01:11:02,890 --> 01:11:00,520

of a few centuries even decades or less

1377

01:11:06,190 --> 01:11:02,900

you know the rapid melting of the ice

1378

01:11:10,330 --> 01:11:06,200

sheets where you've got the conversion

1379

01:11:14,860 --> 01:11:10,340

of ice into water and the release of all

1380

01:11:16,900 --> 01:11:14,870

the energy and then massive floods

1381

01:11:20,530 --> 01:11:16,910

sweeping over the land destroying

1382

01:11:22,990 --> 01:11:20,540

everything that was there leaving what

1383

01:11:25,810 --> 01:11:23,000

had been intact landscapes over

1384

01:11:30,760 --> 01:11:25,820

thousands of square miles reducing those

1385

01:11:32,650 --> 01:11:30,770

landscapes to piles of rubble so in

1386

01:11:34,740 --> 01:11:32,660

effect what I've been doing is focusing

1387

01:11:37,630 --> 01:11:34,750

on these like what I call them these

1388

01:11:40,570 --> 01:11:37,640

discontinuities within the continuum of

1389

01:11:42,610 --> 01:11:40,580

normal or natural change because that's

1390

01:11:44,260 --> 01:11:42,620

where I find all the action to be and

1391

01:11:46,780 --> 01:11:44,270

really what those points of the

1392

01:11:48,780 --> 01:11:46,790

discontinuity are those nonlinearities

1393

01:11:51,610 --> 01:11:48,790

if you want to look at them that way is

1394

01:11:54,970 --> 01:11:51,620

these this massive breakdown of order

1395

01:11:58,030 --> 01:11:54,980

and in the case of the Younger Dryas it

1396

01:12:00,160 --> 01:11:58,040

is now becoming more and more probable

1397

01:12:01,660 --> 01:12:00,170

that that disorder was triggered by the

1398

01:12:05,950 --> 01:12:01,670

incursion of something

1399

01:12:08,200 --> 01:12:05,960

from outside the Earth's system you know

1400

01:12:11,110 --> 01:12:08,210

in this probably the most likely

1401

01:12:14,229 --> 01:12:11,120

candidate would be the debris from the

1402

01:12:16,270 --> 01:12:14,239

breakdown the entropic breakdown of a

1403

01:12:21,160 --> 01:12:16,280

cometary nucleus and the encounter

1404

01:12:24,850 --> 01:12:21,170

between Earth and that that debris

1405

01:12:28,330 --> 01:12:24,860

byproduct of this disintegration of a

1406

01:12:31,180 --> 01:12:28,340

cometary nucleus this which in effect is

1407

01:12:34,630 --> 01:12:31,190

again entropic because it comes in as a

1408

01:12:37,570 --> 01:12:34,640

single system from deep space the Kuiper

1409

01:12:40,150 --> 01:12:37,580

disk or the Oort cloud it comes in and

1410

01:12:44,620 --> 01:12:40,160

once it's subjected to the gravitational

1411

01:12:46,930 --> 01:12:44,630

and thermal forces of the planets

1412

01:12:49,540 --> 01:12:46,940

particularly Jupiter and the Sun and the

1413

01:12:52,209 --> 01:12:49,550

thermal forces of the Sun it then begins

1414

01:12:55,030 --> 01:12:52,219

to undergo a disintegration a breakdown

1415

01:12:57,010 --> 01:12:55,040

and then what that does is it creates

1416

01:12:59,290 --> 01:12:57,020

more if you want to think about in these

1417

01:13:04,930 --> 01:12:59,300

terms it creates more disorder within

1418

01:13:07,830 --> 01:13:04,940

the within the orderly system of the the

1419

01:13:10,660 --> 01:13:07,840

inner solar system right so you've got

1420

01:13:12,910 --> 01:13:10,670

which is normally you've got you know

1421

01:13:14,530 --> 01:13:12,920

when you look at the planetary system

1422

01:13:17,080 --> 01:13:14,540

it's a very orderly thing it's very

1423

01:13:20,590 --> 01:13:17,090

predictable you know that's part of what

1424

01:13:23,200 --> 01:13:20,600

this is when you introduced different

1425

01:13:25,560 --> 01:13:23,210

degrees of disorder in randomness

1426

01:13:26,800 --> 01:13:25,570

randomness which is part of the entropic

1427

01:13:31,060 --> 01:13:26,810

process

1428

01:13:33,040 --> 01:13:31,070

you lose predictability now normally we

1429

01:13:35,410 --> 01:13:33,050

can predict things we can look out there

1430

01:13:37,810 --> 01:13:35,420

and look at the look at the machinery of

1431

01:13:39,490 --> 01:13:37,820

the cosmos and it's very predictable but

1432

01:13:41,080 --> 01:13:39,500

it is now apparent that there are times

1433

01:13:43,720 --> 01:13:41,090

when that order

1434

01:13:47,260 --> 01:13:43,730

breaks down completely and Earth suffers

1435

01:13:49,240 --> 01:13:47,270

the consequences and life on Earth will

1436

01:13:50,979 --> 01:13:49,250

then suffer the consequences of that

1437

01:13:53,740 --> 01:13:50,989

breakdown in order and if there are

1438

01:13:56,500 --> 01:13:53,750

humans who have built societies or

1439

01:13:59,439 --> 01:13:56,510

civilizations they too are going to be

1440

01:14:01,510 --> 01:13:59,449

subject to this massive injection of

1441

01:14:03,100 --> 01:14:01,520

disorder into the system and this is

1442

01:14:07,600 --> 01:14:03,110

where we get back to the idea of

1443

01:14:10,780 --> 01:14:07,610

potentially a civilization of some kind

1444

01:14:13,000 --> 01:14:10,790

that existed on the other side of the

1445

01:14:14,470 --> 01:14:13,010

Younger Dryas and you know this is

1446

01:14:15,310 --> 01:14:14,480

something the Graham Hancock has been

1447

01:14:18,430 --> 01:14:15,320

talking about for

1448

01:14:22,180 --> 01:14:18,440

decades and most of his critics do not

1449

01:14:24,819 --> 01:14:22,190

understand the degree to which disorder

1450

01:14:27,490 --> 01:14:24,829

was introduced into the terrestrial

1451

01:14:29,890 --> 01:14:27,500

system between let's say eleven and

1452

01:14:32,800 --> 01:14:29,900

fourteen thousand years ago right so

1453

01:14:35,919 --> 01:14:32,810

they do not have this framework for

1454

01:14:37,930 --> 01:14:35,929

thinking about well we're where where is

1455

01:14:40,810 --> 01:14:37,940

the evidence for a civilization like

1456

01:14:43,510 --> 01:14:40,820

that because they don't understand you

1457

01:14:44,950 --> 01:14:43,520

know some of the like the landscapes

1458

01:14:47,589 --> 01:14:44,960

that I look at I'll just say for example

1459

01:14:49,149 --> 01:14:47,599

the the channels gadlin's of Eastern

1460

01:14:51,069 --> 01:14:49,159

Washington because it's an area I'm so

1461

01:14:52,120 --> 01:14:51,079

thoroughly familiar with you can go and

1462

01:14:54,310 --> 01:14:52,130

you can meet you can actually be

1463

01:14:58,089 --> 01:14:54,320

standing there on the ground literally

1464

01:15:00,729 --> 01:14:58,099

underground and then you could go well

1465

01:15:02,890 --> 01:15:00,739

wait a second this was not the surface

1466

01:15:05,589 --> 01:15:02,900

of the ground thirteen or fourteen

1467

01:15:07,899 --> 01:15:05,599

thousand years ago the surface of the

1468

01:15:10,419 --> 01:15:07,909

ground was a thousand feet over our head

1469

01:15:14,589 --> 01:15:10,429

yeah was up there a travel cries yeah

1470

01:15:18,339 --> 01:15:14,599

now you travel say 50 miles down slope

1471

01:15:22,419 --> 01:15:18,349

and there is several thousand square

1472

01:15:26,379 --> 01:15:22,429

miles of rubble and that rubble used to

1473

01:15:29,649 --> 01:15:26,389

be the landscape that was there 13 14 15

1474

01:15:33,580 --> 01:15:29,659

thousand years ago now the extent to

1475

01:15:35,919 --> 01:15:33,590

which that is a consistent process over

1476

01:15:38,740 --> 01:15:35,929

the plant whole planet has not been

1477

01:15:41,350 --> 01:15:38,750

appreciated by a lot of scientists even

1478

01:15:43,450 --> 01:15:41,360

geologists because I talk to geologists

1479

01:15:45,459 --> 01:15:43,460

all the time I just got a very

1480

01:15:49,270 --> 01:15:45,469

interesting email from a geologist today

1481

01:15:51,129 --> 01:15:49,280

who's been looking at my stuff and what

1482

01:15:52,839 --> 01:15:51,139

I what is happening is that noticed in

1483

01:15:55,540 --> 01:15:52,849

the last 10 or 20 years it's gone from

1484

01:15:57,339 --> 01:15:55,550

being well you know this is some fringe

1485

01:16:01,120 --> 01:15:57,349

stuff because I was talking about

1486

01:16:03,760 --> 01:16:01,130

asteroid impacts destroying you know

1487

01:16:07,569 --> 01:16:03,770

actually ending the Ice Age literally 25

1488

01:16:09,669 --> 01:16:07,579

years ago and only in 2007 did

1489

01:16:12,700 --> 01:16:09,679

mainstream scientists begin to come out

1490

01:16:14,290 --> 01:16:12,710

with papers suggesting exactly that so

1491

01:16:17,140 --> 01:16:14,300

now what is happening is I'm actually

1492

01:16:20,020 --> 01:16:17,150

getting to engage in dialogues with a

1493

01:16:22,620 --> 01:16:20,030

variety of scientists that are really

1494

01:16:25,120 --> 01:16:22,630

doing this work and discovering that

1495

01:16:28,030 --> 01:16:25,130

it's becoming much more acceptable to

1496

01:16:28,840 --> 01:16:28,040

yeah we're realizing now that that there

1497

01:16:30,430 --> 01:16:28,850

was a lot more going

1498

01:16:31,810 --> 01:16:30,440

God because you know up to this point

1499

01:16:34,390 --> 01:16:31,820

Jimmy if you were a professional

1500

01:16:37,030 --> 01:16:34,400

geologist let's say you know through

1501

01:16:38,470 --> 01:16:37,040

most of the 20th century primarily what

1502

01:16:40,210 --> 01:16:38,480

you are doing which you'll either work

1503

01:16:43,150 --> 01:16:40,220

you work for the energy companies you

1504

01:16:44,740 --> 01:16:43,160

did you did you know basically energy

1505

01:16:47,440 --> 01:16:44,750

surveying you were looking for

1506

01:16:50,980 --> 01:16:47,450

hydrocarbon reservoirs so you weren't

1507

01:16:52,170 --> 01:16:50,990

really paying attention to landscapes

1508

01:16:54,820 --> 01:16:52,180

you weren't paying attention to

1509

01:16:56,530 --> 01:16:54,830

geomorphology all the stuff that was

1510

01:16:59,410 --> 01:16:56,540

going on on the surface the stuff you

1511

01:17:01,240 --> 01:16:59,420

saw was referred to as overburden so it

1512

01:17:03,910 --> 01:17:01,250

just basically stuff in the way you know

1513

01:17:06,310 --> 01:17:03,920

you weren't really too interested in why

1514

01:17:08,140 --> 01:17:06,320

it was there you know what they were

1515

01:17:10,180 --> 01:17:08,150

interested in is where's the oil down

1516

01:17:12,190 --> 01:17:10,190

underneath this this rubble yeah they

1517

01:17:14,340 --> 01:17:12,200

are prospect for you right

1518

01:17:17,230 --> 01:17:14,350

yeah they were prospecting for

1519

01:17:19,090 --> 01:17:17,240

hydrocarbon reservoirs say and then the

1520

01:17:22,030 --> 01:17:19,100

other was most geologists worked for the

1521

01:17:23,380 --> 01:17:22,040

government so for example in Java this

1522

01:17:26,290 --> 01:17:23,390

might that was his work for the

1523

01:17:28,060 --> 01:17:26,300

government for the last you know say 30

1524

01:17:30,660 --> 01:17:28,070

or 40 years ago they might be doing

1525

01:17:33,460 --> 01:17:30,670

something like well I'm looking for a

1526

01:17:37,000 --> 01:17:33,470

place where we could store nuclear waste

1527

01:17:39,460 --> 01:17:37,010

without it getting into groundwater so I

1528

01:17:41,050 --> 01:17:39,470

mean they're looking at a dozens and

1529

01:17:44,650 --> 01:17:41,060

dozens of different problems and issues

1530

01:17:47,560 --> 01:17:44,660

but not really looking at okay how did

1531

01:17:49,870 --> 01:17:47,570

this Canyon here that's that's a mile

1532

01:17:51,640 --> 01:17:49,880

wide and a thousand feet deep get here

1533

01:17:54,220 --> 01:17:51,650

well it must have gotten there through

1534

01:17:56,380 --> 01:17:54,230

gradual istic processes that took you

1535

01:17:59,020 --> 01:17:56,390

know hundreds of thousands or millions

1536

01:18:00,610 --> 01:17:59,030

of years and then you get some Mavericks

1537

01:18:03,250 --> 01:18:00,620

coming along looking and go await a

1538

01:18:04,870 --> 01:18:03,260

second no if we take a closer look this

1539

01:18:07,390 --> 01:18:04,880

has all the earmarks of something that

1540

01:18:09,670 --> 01:18:07,400

happened very very suddenly well no

1541

01:18:12,490 --> 01:18:09,680

you're a crackpot get out of here so the

1542

01:18:16,630 --> 01:18:12,500

crackpots were the ones who are actually

1543

01:18:19,660 --> 01:18:16,640

right and what we see in the 60s 70s and

1544

01:18:22,630 --> 01:18:19,670

80s is a shifting over from mainstream

1545

01:18:24,610 --> 01:18:22,640

you know academic approaches to an

1546

01:18:28,000 --> 01:18:24,620

interpretation of Earth history into the

1547

01:18:30,250 --> 01:18:28,010

recognition that yes these orderly

1548

01:18:34,330 --> 01:18:30,260

processes that prevail most of the time

1549

01:18:36,820 --> 01:18:34,340

do get interrupted and when they do a

1550

01:18:39,190 --> 01:18:36,830

whole lot of change might get compressed

1551

01:18:40,810 --> 01:18:39,200

into a very short period of time the

1552

01:18:42,550 --> 01:18:40,820

kind of the change that we normally

1553

01:18:44,290 --> 01:18:42,560

think might take

1554

01:18:47,110 --> 01:18:44,300

hundred thousand or a million years to

1555

01:18:50,200 --> 01:18:47,120

take place might take place in a year

1556

01:18:52,960 --> 01:18:50,210

you see so we've come full circle

1557

01:18:55,930 --> 01:18:52,970

because the early geologists if you go

1558

01:18:58,590 --> 01:18:55,940

back to the 1820s a to the 1870s when

1559

01:19:01,870 --> 01:18:58,600

geology was before was an actual

1560

01:19:04,780 --> 01:19:01,880

academic discipline many of the founding

1561

01:19:08,200 --> 01:19:04,790

fathers of the geological sciences were

1562

01:19:10,510 --> 01:19:08,210

catastrophists in in one variation or

1563

01:19:13,800 --> 01:19:10,520

another they looked at landscapes and

1564

01:19:16,270 --> 01:19:13,810

they thought hmm how do we explain this

1565

01:19:21,010 --> 01:19:16,280

without a catastrophe

1566

01:19:23,980 --> 01:19:21,020

and what happened was once geology

1567

01:19:26,140 --> 01:19:23,990

became an approved academic discipline

1568

01:19:30,100 --> 01:19:26,150

the prevailing doctrine became

1569

01:19:31,390 --> 01:19:30,110

uniformity gradualism and what they did

1570

01:19:33,010 --> 01:19:31,400

was kind of threw the baby out with the

1571

01:19:35,500 --> 01:19:33,020

bathwater they said well look if you

1572

01:19:37,030 --> 01:19:35,510

start talking about catastrophes you're

1573

01:19:39,370 --> 01:19:37,040

you know you're going back to Noah's

1574

01:19:41,650 --> 01:19:39,380

Flood you're you're you know going back

1575

01:19:44,080 --> 01:19:41,660

to you know biblical literalism and

1576

01:19:47,430 --> 01:19:44,090

we've evolved past that now so don't

1577

01:19:50,380 --> 01:19:47,440

don't drag us back into you know a

1578

01:19:52,960 --> 01:19:50,390

simple-minded model of a universal flood

1579

01:19:55,780 --> 01:19:52,970

or anything like that leave leave that

1580

01:19:57,270 --> 01:19:55,790

alone and so but time we get to the the

1581

01:20:00,010 --> 01:19:57,280

beginning of the 20th century

1582

01:20:02,560 --> 01:20:00,020

catastrophism has been completely erased

1583

01:20:04,930 --> 01:20:02,570

from the academic curriculums of geology

1584

01:20:08,640 --> 01:20:04,940

and earth history then we get to the

1585

01:20:11,560 --> 01:20:08,650

1920s and 1930s we have that the the

1586

01:20:14,650 --> 01:20:11,570

Maverick geologist geologist by the name

1587

01:20:17,050 --> 01:20:14,660

of Jay Harlen Bretz who was the the man

1588

01:20:19,890 --> 01:20:17,060

who went out and spent like 20 field

1589

01:20:22,390 --> 01:20:19,900

seasons out in eastern Washington

1590

01:20:25,360 --> 01:20:22,400

basically demonstrating unequivocally

1591

01:20:27,340 --> 01:20:25,370

that yeah gigantic unimaginably huge

1592

01:20:29,890 --> 01:20:27,350

floods it swept over this land and

1593

01:20:33,070 --> 01:20:29,900

carved and created this landscape and he

1594

01:20:35,110 --> 01:20:33,080

amassed huge amounts of evidence that it

1595

01:20:38,200 --> 01:20:35,120

really left no possibility of an

1596

01:20:41,350 --> 01:20:38,210

alternate all explanation and believe me

1597

01:20:42,850 --> 01:20:41,360

the the mainstream guys tried they tried

1598

01:20:45,610 --> 01:20:42,860

their damndest to come up with an

1599

01:20:47,530 --> 01:20:45,620

alternate explanation but those

1600

01:20:50,170 --> 01:20:47,540

alternate explanations essentially just

1601

01:20:52,600 --> 01:20:50,180

collapsed finally there was uh I think

1602

01:20:55,260 --> 01:20:52,610

we're coming back up to the 1950s one of

1603

01:20:56,560 --> 01:20:55,270

the leaders of the of the gradualist

1604

01:20:58,740 --> 01:20:56,570

School of

1605

01:21:01,689 --> 01:20:58,750

thought who had who had spent years

1606

01:21:03,970 --> 01:21:01,699

actually trying to discredit breaths

1607

01:21:06,399 --> 01:21:03,980

his name was Gillooly he was a

1608

01:21:12,550 --> 01:21:06,409

distinguished geologist he actually led

1609

01:21:14,560 --> 01:21:12,560

a an attempt to discredit Bret's once

1610

01:21:18,850 --> 01:21:14,570

and for all and and laid to rest this

1611

01:21:20,200 --> 01:21:18,860

this heresy of catastrophic floods but

1612

01:21:21,459 --> 01:21:20,210

he never went out in the field he never

1613

01:21:23,649 --> 01:21:21,469

went out in the field to actually look

1614

01:21:25,990 --> 01:21:23,659

at the evidence finally he got dragged

1615

01:21:27,580 --> 01:21:26,000

kicking and screaming out into the field

1616

01:21:29,439 --> 01:21:27,590

and he was with a group of colleagues

1617

01:21:31,930 --> 01:21:29,449

including some younger geologists who

1618

01:21:33,910 --> 01:21:31,940

are a little bit now more open-minded to

1619

01:21:36,580 --> 01:21:33,920

the idea of catastrophic floods they

1620

01:21:39,490 --> 01:21:36,590

spent a week traveling around this area

1621

01:21:40,810 --> 01:21:39,500

at these devastated landscapes the end

1622

01:21:43,390 --> 01:21:40,820

of the week they got to a place called

1623

01:21:47,229 --> 01:21:43,400

Palouse Falls which I've been to many

1624

01:21:49,450 --> 01:21:47,239

times and it's a huge a cataract with a

1625

01:21:51,850 --> 01:21:49,460

little basically the Palouse River that

1626
01:21:54,310 --> 01:21:51,860
flows over it now is just minuscule and

1627
01:21:56,229 --> 01:21:54,320
there's this massive cataract circular

1628
01:21:58,930 --> 01:21:56,239
cataract on the scale of Niagara Falls

1629
01:22:00,700 --> 01:21:58,940
but with a little creek pouring over and

1630
01:22:02,229 --> 01:22:00,710
that was kind of the coup de Gras for

1631
01:22:04,330 --> 01:22:02,239
him he had been looking at this stuff

1632
01:22:07,120 --> 01:22:04,340
all week and if you look at just one

1633
01:22:09,520 --> 01:22:07,130
piece of evidence that's not going to

1634
01:22:11,319 --> 01:22:09,530
make the case but when you look at one

1635
01:22:13,270 --> 01:22:11,329
kind of evidence than another kind you

1636
01:22:15,669 --> 01:22:13,280
look you might look at a giant current

1637
01:22:17,500 --> 01:22:15,679
ripple field where you're looking at you

1638
01:22:19,479 --> 01:22:17,510

know we anybody who's ever walked on a

1639

01:22:21,910 --> 01:22:19,489

sandbar along a creek or on the beach

1640

01:22:23,800 --> 01:22:21,920

you've seen sand ripples right and

1641

01:22:25,990 --> 01:22:23,810

typically they're going to be a few

1642

01:22:28,930 --> 01:22:26,000

inches in height you know they're maybe

1643

01:22:30,850 --> 01:22:28,940

six or eight inches in in wave length

1644

01:22:33,100 --> 01:22:30,860

you know separating the crests of each

1645

01:22:35,830 --> 01:22:33,110

of these ripples that that's normal I

1646

01:22:41,979 --> 01:22:35,840

mean a typical normal river will go down

1647

01:22:43,540 --> 01:22:41,989

to any sand bank or you know any any

1648

01:22:45,189 --> 01:22:43,550

deposit along the side of the river and

1649

01:22:47,740 --> 01:22:45,199

you will see these these ripples well

1650

01:22:49,270 --> 01:22:47,750

there are places from Montana to Eastern

1651

01:22:52,030 --> 01:22:49,280

Washington where you can see ripple

1652

01:22:55,479 --> 01:22:52,040

fields where the ripples are the height

1653

01:22:57,550 --> 01:22:55,489

of a three to five storey building the

1654

01:23:00,250 --> 01:22:57,560

amplitude you know 30 to 50 feet in

1655

01:23:02,620 --> 01:23:00,260

height the amplitude is 2 to 300 feet

1656

01:23:05,649 --> 01:23:02,630

and the ripple train might be five or

1657

01:23:09,760 --> 01:23:05,659

six or seven miles long right right and

1658

01:23:10,540 --> 01:23:09,770

then you you you do you do a an

1659

01:23:12,790 --> 01:23:10,550

examination

1660

01:23:14,680 --> 01:23:12,800

of the internal architecture of these

1661

01:23:17,530 --> 01:23:14,690

ripples and they're composed of boulders

1662

01:23:19,360 --> 01:23:17,540

that anywhere from millions of boulders

1663

01:23:22,120 --> 01:23:19,370

from anywhere from one to six or eight

1664

01:23:23,830 --> 01:23:22,130

feet in diameter and then you go out and

1665

01:23:25,780 --> 01:23:23,840

you see these like I was describing

1666

01:23:28,150 --> 01:23:25,790

earlier you can look at these canyons

1667

01:23:31,090 --> 01:23:28,160

and a great a great example is Grand

1668

01:23:33,130 --> 01:23:31,100

Coulee in in Washington State where

1669

01:23:37,390 --> 01:23:33,140

you've got you've got ripples on the

1670

01:23:39,880 --> 01:23:37,400

floor you've got masses of deposits at

1671

01:23:42,250 --> 01:23:39,890

the mouth of the thing and these

1672

01:23:45,760 --> 01:23:42,260

deposits are piles of boulders that

1673

01:23:48,100 --> 01:23:45,770

cover several thousand square miles and

1674

01:23:51,280 --> 01:23:48,110

those boulders some of them are the size

1675

01:23:54,540 --> 01:23:51,290

of houses right now there's no

1676

01:23:56,920 --> 01:23:54,550

explanation for that in uniformitarian

1677

01:23:59,740 --> 01:23:56,930

models and in these types of things

1678

01:24:01,390 --> 01:23:59,750

could go on and on and on you know when

1679

01:24:03,640 --> 01:24:01,400

you have a giant flood let's say that

1680

01:24:06,250 --> 01:24:03,650

it's rushing down through a main trunk

1681

01:24:08,590 --> 01:24:06,260

valley and your tributary valleys coming

1682

01:24:10,540 --> 01:24:08,600

in right from the sides so normally

1683

01:24:13,120 --> 01:24:10,550

you've got smaller rivers flowing in

1684

01:24:15,190 --> 01:24:13,130

smaller valleys they flow into a bigger

1685

01:24:17,500 --> 01:24:15,200

river that's in a bigger valley now

1686

01:24:20,740 --> 01:24:17,510

let's say that bigger valley is serving

1687

01:24:22,570 --> 01:24:20,750

as a conduit for this massive flood

1688

01:24:25,240 --> 01:24:22,580

let's say a hundred million two hundred

1689

01:24:27,190 --> 01:24:25,250

million cubic feet per second is rushing

1690

01:24:28,870 --> 01:24:27,200

down this valley well what happens is

1691

01:24:31,150 --> 01:24:28,880

these little tributary rivers or streams

1692

01:24:33,670 --> 01:24:31,160

coming in from the side line valleys

1693

01:24:36,790 --> 01:24:33,680

they get reversed because the water in

1694

01:24:39,550 --> 01:24:36,800

the main valley rushes upstream of these

1695

01:24:41,320 --> 01:24:39,560

tributaries now this water that's

1696

01:24:43,900 --> 01:24:41,330

carrying down like all floodwaters it's

1697

01:24:46,090 --> 01:24:43,910

choked with sediment so when the water

1698

01:24:49,600 --> 01:24:46,100

rushes up the tributary valleys and

1699

01:24:51,790 --> 01:24:49,610

moving uphill it's slowing down once it

1700

01:24:53,530 --> 01:24:51,800

gets to the to the highest elevation

1701

01:24:54,940 --> 01:24:53,540

that it's going to that it's going to go

1702

01:24:57,430 --> 01:24:54,950

which is generally about the same

1703

01:24:59,260 --> 01:24:57,440

elevation that the water level is in the

1704

01:25:01,420 --> 01:24:59,270

main valley which might be five hundred

1705

01:25:05,110 --> 01:25:01,430

six hundred seven eight hundred feet

1706

01:25:07,060 --> 01:25:05,120

deeper normal floods now it begins to

1707

01:25:10,150 --> 01:25:07,070

flow back out and when it does that it

1708

01:25:13,600 --> 01:25:10,160

leaves a deposit a thick deposit of mud

1709

01:25:15,430 --> 01:25:13,610

right and in that mud you can you can go

1710

01:25:17,320 --> 01:25:15,440

and you can look in there and what

1711

01:25:19,810 --> 01:25:17,330

you'll find is you'll find the remains

1712

01:25:22,600 --> 01:25:19,820

for example of forests what had once

1713

01:25:24,019 --> 01:25:22,610

been forests entombed in this mud you

1714

01:25:27,139 --> 01:25:24,029

will find the remain

1715

01:25:29,569 --> 01:25:27,149

of MegaFon d you might dig up and here's

1716

01:25:32,179 --> 01:25:29,579

the disarticulated bones of a wooly

1717

01:25:35,869 --> 01:25:32,189

mammoth or a saber-toothed cat or a

1718

01:25:38,029 --> 01:25:35,879

giant ground sloth that and and and then

1719

01:25:40,219 --> 01:25:38,039

you can pull out radiocarbon dating and

1720

01:25:43,669 --> 01:25:40,229

you can date that because of there's

1721

01:25:45,529 --> 01:25:43,679

organic material in there right well it

1722

01:25:48,199 --> 01:25:45,539

goes on like this you can go and there

1723

01:25:50,449 --> 01:25:48,209

might be two dozen distinct different

1724

01:25:54,589 --> 01:25:50,459

types of evidence that you can now

1725

01:25:56,989 --> 01:25:54,599

integrate and the the final insight from

1726

01:25:59,929 --> 01:25:56,999

that is that there's really no other

1727

01:26:03,469 --> 01:25:59,939

conclusion you might be able to take one

1728

01:26:05,509 --> 01:26:03,479

of those elements by itself and explain

1729

01:26:07,849 --> 01:26:05,519

it by gradualist ik processes but when

1730

01:26:11,239 --> 01:26:07,859

you put it all together jimmy know then

1731

01:26:13,999 --> 01:26:11,249

there's no way it clearly signals

1732

01:26:16,729 --> 01:26:14,009

massive catastrophes so now here's this

1733

01:26:18,409 --> 01:26:16,739

group of geologists trout traveling over

1734

01:26:20,719 --> 01:26:18,419

southeastern Washington looking at this

1735

01:26:24,459 --> 01:26:20,729

stuff Gilooly initially goes out there

1736

01:26:27,769 --> 01:26:24,469

on you know a departure on day one he's

1737

01:26:30,439 --> 01:26:27,779

deceptive right typical academic skeptic

1738

01:26:33,949 --> 01:26:30,449

right the last day after a week been

1739

01:26:35,989 --> 01:26:33,959

seeing all of this stuff covering you

1740

01:26:37,579 --> 01:26:35,999

know literally thousands of square miles

1741

01:26:39,739 --> 01:26:37,589

they've been traveling over looking at

1742

01:26:40,999 --> 01:26:39,749

this stuff then they'd last day they get

1743

01:26:44,239 --> 01:26:41,009

to Palouse Falls and he goes out there

1744

01:26:45,919 --> 01:26:44,249

and he says one of the participants in

1745

01:26:48,349 --> 01:26:45,929

the group who wrote about this later

1746

01:26:49,669 --> 01:26:48,359

said that Gillooly walked away from the

1747

01:26:52,339 --> 01:26:49,679

group and he was standing there at the

1748

01:26:54,769 --> 01:26:52,349

precipice of this huge cataract and

1749

01:26:56,989 --> 01:26:54,779

looking at the little little trickle the

1750

01:27:00,109 --> 01:26:56,999

stream of the Palouse River running over

1751

01:27:01,909 --> 01:27:00,119

it seeing the canyon below it four

1752

01:27:05,119 --> 01:27:01,919

hundred five hundred feet deep right

1753

01:27:07,849 --> 01:27:05,129

with sheer sides giant boulders laying

1754

01:27:10,369 --> 01:27:07,859

in the bottom of the canyon he walked

1755

01:27:13,099 --> 01:27:10,379

back to the group he looked at me he

1756

01:27:17,869 --> 01:27:13,109

said exact words how could I have been

1757

01:27:22,359 --> 01:27:17,879

so wrong exactly and and I want to ask

1758

01:27:26,779 --> 01:27:22,369

you before we head to the break when we

1759

01:27:30,589 --> 01:27:26,789

picture in our own minds eye a mile or

1760

01:27:33,619 --> 01:27:30,599

two of ice over North America certainly

1761

01:27:34,459 --> 01:27:33,629

Canada but you know halfway across the

1762

01:27:36,709 --> 01:27:34,469

United States

1763

01:27:37,570 --> 01:27:36,719

you know heading south and you thinking

1764

01:27:42,060 --> 01:27:37,580

about that

1765

01:27:45,520 --> 01:27:42,070

much ice right a mile of ice covering

1766

01:27:49,330 --> 01:27:45,530

Manhattan for instance and then one day

1767

01:27:51,540 --> 01:27:49,340

it decides to melt and whatever caused

1768

01:27:55,410 --> 01:27:51,550

it right whatever caused it probably

1769

01:27:59,110 --> 01:27:55,420

something soul or something cosmic but

1770

01:28:03,400 --> 01:27:59,120

when it decides to melt we are talking

1771

01:28:07,480 --> 01:28:03,410

about water moving at a thousand miles

1772

01:28:11,410 --> 01:28:07,490

an hour right or faster and if anything

1773

01:28:13,540 --> 01:28:11,420

is because before that it's it's not

1774

01:28:15,490 --> 01:28:13,550

entropy everything is stable right the

1775

01:28:17,800 --> 01:28:15,500

ice is stable the temperatures are

1776

01:28:19,810 --> 01:28:17,810

stable but then it goes it goes

1777

01:28:23,860 --> 01:28:19,820

completely wrong in the other direction

1778

01:28:28,090 --> 01:28:23,870

is that a classic example of entropy

1779

01:28:30,340 --> 01:28:28,100

from an external force oh I think it

1780

01:28:35,350 --> 01:28:30,350

would be a really good example on a

1781

01:28:39,280 --> 01:28:35,360

large scale yes I I certainly do yeah

1782

01:28:44,770 --> 01:28:39,290

ice melting is exactly is often invoked

1783

01:28:46,360 --> 01:28:44,780

as a as an example of Anthropy you know

1784

01:28:48,970 --> 01:28:46,370

say well I what are some examples of

1785

01:28:51,430 --> 01:28:48,980

entropy in your kitchen well you know

1786

01:28:54,700 --> 01:28:51,440

some sugar dissolving in your hot coffee

1787

01:28:56,890 --> 01:28:54,710

right right but yeah certainly ice

1788

01:28:59,440 --> 01:28:56,900

melting but and and now we're talking

1789

01:29:02,020 --> 01:28:59,450

about ice melting on an inconceivable

1790

01:29:03,850 --> 01:29:02,030

scale and I do want to throw it I don't

1791

01:29:05,880 --> 01:29:03,860

think that there's we don't know of

1792

01:29:09,100 --> 01:29:05,890

anything moving a thousand miles an hour

1793

01:29:11,560 --> 01:29:09,110

perhaps a hundred miles an hour but you

1794

01:29:14,110 --> 01:29:11,570

gotta realize that the force of the

1795

01:29:17,140 --> 01:29:14,120

hydraulic forces increase exponentially

1796

01:29:19,390 --> 01:29:17,150

with velocity so typically you might go

1797

01:29:21,130 --> 01:29:19,400

into a let's say you're gonna you know

1798

01:29:24,700 --> 01:29:21,140

people up oftentimes in floods Oh get

1799

01:29:27,190 --> 01:29:24,710

out no try to drive across a flow of

1800

01:29:29,830 --> 01:29:27,200

water a flow that might be 2 or 3 feet

1801
01:29:31,720 --> 01:29:29,840
deep right but that water is moving even

1802
01:29:34,360 --> 01:29:31,730
at just 20 or 25 miles an hour and

1803
01:29:36,700 --> 01:29:34,370
suddenly all of a sudden their vehicle

1804
01:29:40,450 --> 01:29:36,710
is getting washed away right water

1805
01:29:42,700 --> 01:29:40,460
movement is incredibly powerful right so

1806
01:29:45,820 --> 01:29:42,710
if you have water that's moving at 50 or

1807
01:29:49,600 --> 01:29:45,830
60 70 miles an hour which is basically

1808
01:29:50,410 --> 01:29:49,610
unheard of today you can't find even in

1809
01:29:51,880 --> 01:29:50,420
a flash

1810
01:29:54,550 --> 01:29:51,890
you're not going to have water moving

1811
01:29:57,130 --> 01:29:54,560
that fast you know I mean so fast that

1812
01:29:59,770 --> 01:29:57,140
you know you you you know you'd have to

1813
01:30:01,780 --> 01:29:59,780

have a very fast vehicle to outrun it

1814

01:30:05,740 --> 01:30:01,790

right we're taught that's the kind of

1815

01:30:08,439 --> 01:30:05,750

velocities we're talking about here you

1816

01:30:10,180 --> 01:30:08,449

know so you know the the water that

1817

01:30:13,720 --> 01:30:10,190

created Grand Coulee has been estimated

1818

01:30:17,350 --> 01:30:13,730

to be 60 to 70 miles an hour let's like

1819

01:30:20,320 --> 01:30:17,360

that's way faster than anything that's

1820

01:30:22,540 --> 01:30:20,330

flowing on earth today we need to take a

1821

01:30:24,700 --> 01:30:22,550

break right here Randall let's get this

1822

01:30:27,130 --> 01:30:24,710

in fade to black I'm your host Jimmy

1823

01:30:31,450 --> 01:30:27,140

Church I guess I Randall Carlson tonight

1824

01:30:33,520 --> 01:30:31,460

we're discussing entropy Deborah just

1825

01:30:36,160 --> 01:30:33,530

said Jimmy's favorite new word is

1826
01:30:40,330 --> 01:30:36,170
entropy spend my favorite new word for

1827
01:30:42,010 --> 01:30:40,340
about 20 years 25 and I'm wiring it out

1828
01:30:52,430 --> 01:30:42,020
we'll be right back after this short

1829
01:30:58,669 --> 01:30:55,640
way out here we listen to Jimmy Church

1830
01:31:01,169 --> 01:30:58,679
you're listening to faint and black

1831
01:31:04,020 --> 01:31:01,179
always on the edge of the hottest

1832
01:31:04,800 --> 01:31:04,030
alternative talk jimmy church with fade

1833
01:31:22,260 --> 01:31:04,810
to black

1834
01:31:25,050 --> 01:31:22,270
stay GRA radio.com do you want to be an

1835
01:31:27,000 --> 01:31:25,060
official fade or not of course you do

1836
01:31:29,580 --> 01:31:27,010
this is Jimmy Church of fade to black

1837
01:31:34,620 --> 01:31:29,590
just go to our membership section at

1838
01:31:37,770 --> 01:31:34,630

Jimmy Church radio.com introducing the

1839

01:31:40,770 --> 01:31:37,780

new surfer music app listen fade or not

1840

01:31:44,430 --> 01:31:40,780

you know I love my music this is my

1841

01:31:46,470 --> 01:31:44,440

go-to for all things notes the surfer

1842

01:31:48,840 --> 01:31:46,480

app is a brand new concept in music

1843

01:31:51,000 --> 01:31:48,850

listening surfer is free providing

1844

01:31:53,550 --> 01:31:51,010

unlimited access to thousands of live

1845

01:31:55,169 --> 01:31:53,560

streaming radio stations surfer is an

1846

01:31:57,630 --> 01:31:55,179

exciting interactive listening

1847

01:31:59,970 --> 01:31:57,640

experience discovery and surprise of

1848

01:32:01,939 --> 01:31:59,980

built right in surfer is your

1849

01:32:05,370 --> 01:32:01,949

destination to discover and rediscover

1850

01:32:08,130 --> 01:32:05,380

great live streaming music it features

1851
01:32:09,750 --> 01:32:08,140
high quality audio streams free access

1852
01:32:11,970 --> 01:32:09,760
to music from thousands of live

1853
01:32:14,370 --> 01:32:11,980
streaming radio stations unlimited

1854
01:32:16,890 --> 01:32:14,380
listening unlimited skipping you get a

1855
01:32:19,080 --> 01:32:16,900
music visualizer and you can also select

1856
01:32:21,060 --> 01:32:19,090
your favorite channels get it at the

1857
01:32:22,740 --> 01:32:21,070
Apple App Store or Google Play

1858
01:32:24,990 --> 01:32:22,750
just search sir

1859
01:32:27,960 --> 01:32:25,000
for music or click on the surfer banner

1860
01:32:30,699 --> 01:32:27,970
at Jimmy Church radio calm go back Lee

1861
01:32:37,819 --> 01:32:34,189
so you love talk radio then you'll love

1862
01:32:40,669 --> 01:32:37,829
talk stream live.com talk stream live is

1863
01:32:42,919 --> 01:32:40,679

always on 24/7 with the best streaming

1864

01:32:44,989 --> 01:32:42,929

talk shows find your favorite talkers

1865

01:32:47,839 --> 01:32:44,999

and discover some new ones it's free

1866

01:32:49,520 --> 01:32:47,849

readily available online or on mobile

1867

01:32:51,560 --> 01:32:49,530

with any smartphone or tablet

1868

01:32:53,629 --> 01:32:51,570

finding your favorite talk shows all in

1869

01:32:56,659 --> 01:32:53,639

one place has gotten a whole lot easier

1870

01:32:58,459 --> 01:32:56,669

just go to talk stream live.com

1871

01:33:02,500 --> 01:32:58,469

be sure to download the free apps from

1872

01:33:06,529 --> 01:33:02,510

Google Play or the iTunes App Store you

1873

01:33:14,239 --> 01:33:06,539

listen to us and we listen to you and so

1874

01:33:15,830 --> 01:33:14,249

does the Click GRA radio.com if you have

1875

01:33:18,169 --> 01:33:15,840

hard water the lime scale not only

1876

01:33:20,000 --> 01:33:18,179

leaves white spots at clogs pipes and

1877

01:33:21,919 --> 01:33:20,010

breaks down appliances costing you

1878

01:33:23,929 --> 01:33:21,929

hundreds of dollars in energy and where

1879

01:33:25,790 --> 01:33:23,939

eliminate limescale and other water

1880

01:33:28,159 --> 01:33:25,800

issues like brown staining and bad odors

1881

01:33:30,109 --> 01:33:28,169

with hydro care water products available

1882

01:33:32,359 --> 01:33:30,119

from wave home solutions waves

1883

01:33:34,129 --> 01:33:32,369

affordable water systems don't use salts

1884

01:33:35,799 --> 01:33:34,139

or chemicals you'll love the way your

1885

01:33:37,819 --> 01:33:35,809

water tastes smells and looks

1886

01:33:40,520 --> 01:33:37,829

satisfaction guaranteed for more

1887

01:33:44,270 --> 01:33:40,530

information go to best water 1 2 3 com

1888

01:33:47,000 --> 01:33:44,280

that's best water 1 2 3 com are you

1889

01:33:49,549 --> 01:33:47,010

intrigued by paranormal talk radio you

1890

01:33:52,489 --> 01:33:49,559

love the new paranormal radio app from

1891

01:33:54,709 --> 01:33:52,499

talk stream live you'll find a great

1892

01:33:57,830 --> 01:33:54,719

selection of talk shows covering UFOs

1893

01:34:00,259 --> 01:33:57,840

ghosts strange phenomena and much more

1894

01:34:02,479 --> 01:34:00,269

download the paranormal radio app now

1895

01:34:04,790 --> 01:34:02,489

and start listening to the very best in

1896

01:34:06,319 --> 01:34:04,800

paranormal talk entertainment including

1897

01:34:09,319 --> 01:34:06,329

the network you're listening to right

1898

01:34:14,810 --> 01:34:09,329

now the paranormal radio app free in

1899

01:34:16,310 --> 01:34:14,820

Google Play and the iOS App Store you

1900

01:34:18,589 --> 01:34:16,320

are listening to fade to black

1901

01:34:21,450 --> 01:34:18,599

with Jimmy Church on the game changer

1902

01:34:26,850 --> 01:34:23,970

hi I'm Lisa Vance you're listening to

1903

01:34:29,670 --> 01:34:26,860

Jimmy Church this is revolution the

1904

01:35:15,810 --> 01:34:29,680

revolution will not be televised the

1905

01:35:19,930 --> 01:35:18,400

welcome back fade to black I am your

1906

01:35:22,870 --> 01:35:19,940

host Amy Church I guess tonight Randall

1907

01:35:25,930 --> 01:35:22,880

Carlson if you ever miss a live show

1908

01:35:28,210 --> 01:35:25,940

like tonight we're live everywhere but

1909

01:35:31,450 --> 01:35:28,220

if you ever miss live show can't be here

1910

01:35:33,760 --> 01:35:31,460

just get our podcasts it's \$2.00 per

1911

01:35:36,010 --> 01:35:33,770

month we have over 1200 episodes right

1912

01:35:37,870 --> 01:35:36,020

there click on the podcast banner Jimmy

1913

01:35:40,360 --> 01:35:37,880

Church radio and like this conversation

1914

01:35:42,420 --> 01:35:40,370

with Randall Carlson you can catch it on

1915

01:35:48,180 --> 01:35:42,430

your way to work the next morning

1916

01:35:52,990 --> 01:35:48,190

Randall ok when we look at the different

1917

01:35:54,610 --> 01:35:53,000

empires and and societies that expanded

1918

01:35:57,880 --> 01:35:54,620

in the past and of course I can

1919

01:36:01,150 --> 01:35:57,890

reference Egypt or or Greece and

1920

01:36:03,580 --> 01:36:01,160

Alexander the Great or Rome building

1921

01:36:06,720 --> 01:36:03,590

roads across Europe and expansion and

1922

01:36:10,980 --> 01:36:06,730

expansion you know Rome started off as a

1923

01:36:15,310 --> 01:36:10,990

village of huts at one point expanded

1924

01:36:17,800 --> 01:36:15,320

rapidly to the point where it got too

1925

01:36:21,040 --> 01:36:17,810

complicated and everything just

1926

01:36:25,060 --> 01:36:21,050

collapsed we saw it with Spain Portugal

1927

01:36:27,210 --> 01:36:25,070

okay even even Great Britain and today

1928

01:36:31,690 --> 01:36:27,220

we have built this massive

1929

01:36:34,390 --> 01:36:31,700

infrastructure on this planet in so many

1930

01:36:37,510 --> 01:36:34,400

different ways not only with with roads

1931

01:36:40,330 --> 01:36:37,520

and bridges but technically in

1932

01:36:43,570 --> 01:36:40,340

communication and computer networks have

1933

01:36:46,420 --> 01:36:43,580

we did we build too fast too quickly and

1934

01:36:48,700 --> 01:36:46,430

are we looking at entropy right now

1935

01:36:52,720 --> 01:36:48,710

where and and we should have learned

1936

01:36:54,580 --> 01:36:52,730

from the past oh I definitely think we

1937

01:36:58,000 --> 01:36:54,590

need to learn from the past now I think

1938

01:37:01,030 --> 01:36:58,010

that what we're doing is we're learning

1939

01:37:04,840 --> 01:37:01,040

ever more efficient ways to counter the

1940

01:37:07,780 --> 01:37:04,850

effects of entropy I think that's part

1941

01:37:11,620 --> 01:37:07,790

of how one way we might really measure

1942

01:37:14,860 --> 01:37:11,630

our progress but what I was getting at

1943

01:37:19,840 --> 01:37:14,870

earlier is what we have to be cognizant

1944

01:37:22,570 --> 01:37:19,850

of is these episodes where the amount of

1945

01:37:27,250 --> 01:37:22,580

energy injected into the system might be

1946

01:37:31,540 --> 01:37:27,260

orders of magnitude beyond what

1947

01:37:36,520 --> 01:37:31,550

normally would take place in what we

1948

01:37:40,060 --> 01:37:36,530

think of as normal you know as normal

1949

01:37:42,730 --> 01:37:40,070

time such as we are in now because the

1950

01:37:45,370 --> 01:37:42,740

more energy you put into a system it it

1951

01:37:47,890 --> 01:37:45,380

for example on a molecular level it

1952

01:37:49,990 --> 01:37:47,900

excites the molecules and it also

1953

01:37:53,800 --> 01:37:50,000

excites and increases the amount of

1954

01:37:55,540 --> 01:37:53,810

random activity so essentially for

1955

01:37:56,980 --> 01:37:55,550

example if you just increase the

1956

01:38:01,360 --> 01:37:56,990

temperature of a system you've increased

1957

01:38:03,340 --> 01:38:01,370

the amount of entropy so basically what

1958

01:38:07,420 --> 01:38:03,350

happens is under normal circumstances

1959

01:38:11,200 --> 01:38:07,430

you've got a very predictable injection

1960

01:38:12,970 --> 01:38:11,210

of energy into the global system right

1961

01:38:17,680 --> 01:38:12,980

into the atmospheric system the

1962

01:38:20,740 --> 01:38:17,690

hydrosphere the biosphere and because of

1963

01:38:22,960 --> 01:38:20,750

that it's relatively predictable within

1964

01:38:26,200 --> 01:38:22,970

within certain parameters obviously

1965

01:38:29,730 --> 01:38:26,210

there's going to be you know there's

1966

01:38:33,010 --> 01:38:29,740

going to be volcanic eruptions that can

1967

01:38:35,100 --> 01:38:33,020

increase the amount of entropy you know

1968

01:38:40,060 --> 01:38:35,110

there's going to be as we now know

1969

01:38:43,410 --> 01:38:40,070

perhaps you know even solar type events

1970

01:38:47,080 --> 01:38:43,420

such as the Carrington event that could

1971

01:38:51,040 --> 01:38:47,090

induce a great deal of energy into the

1972

01:38:52,900 --> 01:38:51,050

system so you know thing is is that

1973

01:38:55,930 --> 01:38:52,910

these are all generally predictable I

1974

01:38:58,690 --> 01:38:55,940

think what happens though is that there

1975

01:39:00,850 --> 01:38:58,700

are these more I would say unpredictable

1976

01:39:02,950 --> 01:39:00,860

events where the amount of energy

1977

01:39:04,870 --> 01:39:02,960

injected into the system will be orders

1978

01:39:07,180 --> 01:39:04,880

of magnitude above what we consider

1979

01:39:09,730 --> 01:39:07,190

normal and predictable and it's these

1980

01:39:12,070 --> 01:39:09,740

times that essentially during these

1981

01:39:16,180 --> 01:39:12,080

times that any civilization would be

1982

01:39:19,690 --> 01:39:16,190

vulnerable and yeah we can go back to

1983

01:39:22,150 --> 01:39:19,700

like what 1200 BC the Bronze Age

1984

01:39:25,180 --> 01:39:22,160

collapse you know what happened there

1985

01:39:28,360 --> 01:39:25,190

you know here you're talking about the

1986

01:39:31,270 --> 01:39:28,370

collapse of civilizations well there you

1987

01:39:33,160 --> 01:39:31,280

had what you had aged a minor you had

1988

01:39:37,450 --> 01:39:33,170

the Aegean region you had two Caucasus

1989

01:39:39,100 --> 01:39:37,460

the Balkans where else yeah the whole

1990

01:39:40,480 --> 01:39:39,110

eastern Mediterranean yes or

1991

01:39:42,970 --> 01:39:40,490

Mediterranean

1992

01:39:46,180 --> 01:39:42,980

right right Persian side of things too

1993

01:39:48,340 --> 01:39:46,190

as well and and going north yeah Turkey

1994

01:39:51,730 --> 01:39:48,350

modern-day Turkey which back then was

1995

01:39:54,040 --> 01:39:51,740

the ancient Armenian highlands huge

1996

01:39:58,120 --> 01:39:54,050

technical leaps were happening at that

1997

01:40:01,110 --> 01:39:58,130

time yes and then that got interrupted

1998

01:40:03,580 --> 01:40:01,120

and there was a dark age that lasted

1999

01:40:05,110 --> 01:40:03,590

three or four centuries really for about

2000

01:40:06,910 --> 01:40:05,120

three centuries for life right from

2001

01:40:09,670 --> 01:40:06,920

about 1200 yeah

2002

01:40:13,360 --> 01:40:09,680

and so then you know basically what

2003

01:40:15,970 --> 01:40:13,370

we're seeing is about the time of you

2004

01:40:19,380 --> 01:40:15,980

know the civilizations and tyre and and

2005

01:40:22,030 --> 01:40:19,390

in the eastern Mediterranean around 900

2006

01:40:24,730 --> 01:40:22,040

BC which would be have been the time of

2007

01:40:26,380 --> 01:40:24,740

say biblical time would have been you

2008

01:40:28,570 --> 01:40:26,390

know King Solomon in the building of

2009

01:40:30,880 --> 01:40:28,580

Solomon's Temple is about would have

2010

01:40:35,130 --> 01:40:30,890

been coming at the end of this three

2011

01:40:38,770 --> 01:40:35,140

centuries of Dark Age so this of course

2012

01:40:40,930 --> 01:40:38,780

was catastrophic over over the region of

2013

01:40:46,000 --> 01:40:40,940

the Mediterranean in contiguous lands

2014

01:40:49,140 --> 01:40:46,010

but in the long term scale of Earth

2015

01:40:51,430 --> 01:40:49,150

history it was relatively minor and

2016

01:40:55,840 --> 01:40:51,440

we're still trying to really work out

2017

01:40:57,430 --> 01:40:55,850

what was the trigger for that and but

2018

01:41:00,220 --> 01:40:57,440

something introduced a great deal of

2019

01:41:03,880 --> 01:41:00,230

disorder into the system and as a result

2020

01:41:06,610 --> 01:41:03,890

you had a civilization will collapse and

2021

01:41:11,620 --> 01:41:06,620

very little record of what happened in

2022

01:41:14,950 --> 01:41:11,630

the interim two or three centuries no

2023

01:41:17,140 --> 01:41:14,960

and the amnesia that that's the crazy

2024

01:41:20,380 --> 01:41:17,150

part about this Graham Hancock talks

2025

01:41:23,920 --> 01:41:20,390

about it so much but the amnesia that

2026

01:41:27,460 --> 01:41:23,930

sets in immediately I mean we have to go

2027

01:41:29,800 --> 01:41:27,470

and dig for it now it's it's nearly

2028

01:41:33,220 --> 01:41:29,810

forgotten about overnight and you can

2029

01:41:35,950 --> 01:41:33,230

you could point at any great empire out

2030

01:41:40,480 --> 01:41:35,960

there when it does come to an end and

2031

01:41:43,360 --> 01:41:40,490

it's usually very catastrophic the the

2032

01:41:46,690 --> 01:41:43,370

remnants and in the history is forgotten

2033

01:41:51,580 --> 01:41:46,700

nearly immediately the an example

2034

01:41:52,450 --> 01:41:51,590

Randall for me if you look at Cleopatra

2035

01:42:00,780 --> 01:41:52,460

you know

2036

01:42:04,180 --> 01:42:00,790

of ancient Egypt certainly but they had

2037

01:42:07,330 --> 01:42:04,190

3,000 years of history there and in

2038

01:42:09,430 --> 01:42:07,340

languages and writing and hieroglyphics

2039

01:42:12,030 --> 01:42:09,440

and construction and art and ever the

2040

01:42:16,330 --> 01:42:12,040

pyramid everything was established

2041

01:42:18,310 --> 01:42:16,340

Cleopatra dies and 20 years later nobody

2042

01:42:21,490 --> 01:42:18,320

speaks Egyptian and nobody knows how to

2043

01:42:24,010 --> 01:42:21,500

read hieroglyphics it was like virtually

2044

01:42:26,050 --> 01:42:24,020

overnight overnight and it was just

2045

01:42:32,590 --> 01:42:26,060

forgot we had to go and figure it out

2046

01:42:35,820 --> 01:42:32,600

for ourselves yeah yeah well you know in

2047

01:42:37,690 --> 01:42:35,830

Plato's dialogues Timaeus and Critias

2048

01:42:41,320 --> 01:42:37,700

the ones where he's talking about

2049

01:42:45,220 --> 01:42:41,330

Atlantis he actually discusses that he

2050

01:42:50,230 --> 01:42:45,230

says that there are regular catastrophes

2051
01:42:54,910 --> 01:42:50,240
involving mostly floods and fires great

2052
01:42:57,750 --> 01:42:54,920
fires and he talks about that that and

2053
01:43:00,370 --> 01:42:57,760
he also seems to signal that its

2054
01:43:03,880 --> 01:43:00,380
celestial II based because he uses the

2055
01:43:05,800 --> 01:43:03,890
period he uses the well he gives when he

2056
01:43:09,450 --> 01:43:05,810
at the beginning of Timaeus he invokes

2057
01:43:12,750 --> 01:43:09,460
the the myth of fate which was

2058
01:43:16,690 --> 01:43:12,760
considered by many including ancient

2059
01:43:19,660 --> 01:43:16,700
commentators like ProPlus and others to

2060
01:43:21,670 --> 01:43:19,670
indicate a very close passage of a comet

2061
01:43:23,560 --> 01:43:21,680
by the earth and if you read these the

2062
01:43:25,870 --> 01:43:23,570
account of Satan

2063
01:43:29,140 --> 01:43:25,880

it certainly can be interpreted that way

2064

01:43:33,160 --> 01:43:29,150

and Plato opens his dialogue of atlantis

2065

01:43:35,550 --> 01:43:33,170

and historian lantus by invoking the

2066

01:43:39,670 --> 01:43:35,560

myth of satan but then he talks about

2067

01:43:42,370 --> 01:43:39,680

you know that there being a regular

2068

01:43:46,450 --> 01:43:42,380

succession of catastrophes brought about

2069

01:43:49,530 --> 01:43:46,460

by these various agencies and and then

2070

01:43:54,400 --> 01:43:49,540

he points out that as a result of this

2071

01:43:57,370 --> 01:43:54,410

yeah here here's a quote he says so this

2072

01:44:00,400 --> 01:43:57,380

is this is now the the the ancient the

2073

01:44:03,729 --> 01:44:00,410

the very old Egyptian priest who is now

2074

01:44:06,810 --> 01:44:03,739

relaying this tradition to the

2075

01:44:10,060 --> 01:44:06,820

the Athenian lawgiver Solon whose

2076

01:44:12,339 --> 01:44:10,070

descendant is now relating this story to

2077

01:44:14,290 --> 01:44:12,349

Socrates and Plato is writing it down

2078

01:44:18,009 --> 01:44:14,300

right right right so this old priest

2079

01:44:19,600 --> 01:44:18,019

says - so Lodi says referring to thee to

2080

01:44:22,839 --> 01:44:19,610

the Greeks he says in mind you are all

2081

01:44:25,209 --> 01:44:22,849

young and there is no old opinion handed

2082

01:44:28,689 --> 01:44:25,219

down among you by ancient tradition nor

2083

01:44:30,129 --> 01:44:28,699

any science which is hoary with age and

2084

01:44:34,149 --> 01:44:30,139

I will tell you the reason for this

2085

01:44:37,270 --> 01:44:34,159

there have been and will be again many

2086

01:44:40,060 --> 01:44:37,280

destructions of mankind arising out of

2087

01:44:42,790 --> 01:44:40,070

many causes the greatest have been

2088

01:44:44,159 --> 01:44:42,800

brought about by the agencies of fire

2089

01:44:46,719 --> 01:44:44,169

and water

2090

01:44:48,399 --> 01:44:46,729

in other words great fires and floods

2091

01:44:51,669 --> 01:44:48,409

and any then he goes on and he says

2092

01:44:54,219 --> 01:44:51,679

there is a story which even you have

2093

01:44:57,790 --> 01:44:54,229

preserved that once a pataga once upon a

2094

01:45:01,600 --> 01:44:57,800

time Satan the son of hey Leo's having

2095

01:45:04,299 --> 01:45:01,610

yoked the steeds of his father's chariot

2096

01:45:07,389 --> 01:45:04,309

but because he was not able to drive

2097

01:45:10,089 --> 01:45:07,399

them in the path of his father burned up

2098

01:45:12,989 --> 01:45:10,099

all that was upon the earth and was

2099

01:45:16,810 --> 01:45:12,999

himself destroyed by a thunderbolt now

2100

01:45:20,109 --> 01:45:16,820

Plato says this has the form of a myth

2101
01:45:22,149 --> 01:45:20,119
but it really signifies a declination

2102
01:45:24,369 --> 01:45:22,159
which means that declining a moving

2103
01:45:27,310 --> 01:45:24,379
downward it really signifies a

2104
01:45:30,879 --> 01:45:27,320
declination of the bodies moving around

2105
01:45:34,029 --> 01:45:30,889
the earth and in the heavens and a great

2106
01:45:34,600 --> 01:45:34,039
conflagration of all things upon the

2107
01:45:38,529 --> 01:45:34,610
earth

2108
01:45:41,439 --> 01:45:38,539
recurring at long intervals of time and

2109
01:45:43,359 --> 01:45:41,449
I have before me right here on my desk a

2110
01:45:46,469 --> 01:45:43,369
number of studies that have come out and

2111
01:45:49,509 --> 01:45:46,479
in the last two or three years the

2112
01:45:52,479 --> 01:45:49,519
overwhelmingly documenting that at the

2113
01:45:57,580 --> 01:45:52,489

onset of the Younger Dryas there were in

2114

01:46:03,250 --> 01:45:57,590

fact global fire storms now this Plato

2115

01:46:06,069 --> 01:46:03,260

well going back to our point and what we

2116

01:46:09,399 --> 01:46:06,079

were talking about earlier we need to

2117

01:46:10,529 --> 01:46:09,409

know what happened in the past so we can

2118

01:46:16,140 --> 01:46:10,539

prevent it

2119

01:46:21,839 --> 01:46:16,150

and the the expansion especially Randall

2120

01:46:24,660 --> 01:46:21,849

for me what we have done since 1995 it

2121

01:46:28,229 --> 01:46:24,670

has never been like this throughout

2122

01:46:33,080 --> 01:46:28,239

history the giant leaps that we have

2123

01:46:37,439 --> 01:46:33,090

made since 1995 willy-nilly without

2124

01:46:38,009 --> 01:46:37,449

concern without any just let's get it

2125

01:46:41,220 --> 01:46:38,019

done

2126
01:46:44,310 --> 01:46:41,230
and it is cell phones and laptops in the

2127
01:46:47,819 --> 01:46:44,320
internet and flat-screen TVs and GPS

2128
01:46:51,390 --> 01:46:47,829
systems and and predict abilities and

2129
01:46:54,209 --> 01:46:51,400
and probabilities and artificial

2130
01:46:57,049 --> 01:46:54,219
intelligence and the wall street being

2131
01:47:00,990 --> 01:46:57,059
run by a computer system without any

2132
01:47:04,620 --> 01:47:01,000
consideration on the effects of what

2133
01:47:08,520 --> 01:47:04,630
this may have on us and if it unravels

2134
01:47:12,109 --> 01:47:08,530
if it unravels Smart TVs smart

2135
01:47:15,839 --> 01:47:12,119
television smart refrigerators smart

2136
01:47:20,129 --> 01:47:15,849
right smart toothbrushes if everything

2137
01:47:22,560 --> 01:47:20,139
comes unraveled we're gonna go down very

2138
01:47:25,620 --> 01:47:22,570

very quickly and we've built all of this

2139

01:47:28,080 --> 01:47:25,630

infrastructure and expanded without any

2140

01:47:30,209 --> 01:47:28,090

consideration at all looking at the past

2141

01:47:34,890 --> 01:47:30,219

and the other mistakes that have been

2142

01:47:38,009 --> 01:47:34,900

made I just don't get it well that's why

2143

01:47:39,779 --> 01:47:38,019

it's important that we do shows like

2144

01:47:41,580 --> 01:47:39,789

you're doing Jimmy that we have

2145

01:47:45,419 --> 01:47:41,590

conversations like we're having right

2146

01:47:47,549 --> 01:47:45,429

now because of the fact that regrettably

2147

01:47:49,500 --> 01:47:47,559

a lot of this kind of stuff has been

2148

01:47:52,200 --> 01:47:49,510

left up to the Mavericks to sort out

2149

01:47:55,290 --> 01:47:52,210

because you know mainstream scholars and

2150

01:48:00,209 --> 01:47:55,300

academics they've got there they've got

2151
01:48:02,669 --> 01:48:00,219
their purview of the world and up until

2152
01:48:04,620 --> 01:48:02,679
recently it has not included things like

2153
01:48:05,490 --> 01:48:04,630
the collapse of civilizations that has

2154
01:48:08,009 --> 01:48:05,500
not included

2155
01:48:10,470 --> 01:48:08,019
looking at ancient records as if there's

2156
01:48:11,910 --> 01:48:10,480
any credibility to them like what I just

2157
01:48:14,189 --> 01:48:11,920
read to you right you know it's

2158
01:48:16,799 --> 01:48:14,199
generally all considered to be if you

2159
01:48:18,479 --> 01:48:16,809
look at most scholarship it generally

2160
01:48:21,959 --> 01:48:18,489
looks at all of this as being purely

2161
01:48:24,000 --> 01:48:21,969
metaphorical rather than historical you

2162
01:48:25,380 --> 01:48:24,010
see

2163
01:48:26,940 --> 01:48:25,390

whereas what I'm trying to do is say

2164

01:48:29,220 --> 01:48:26,950

look we have to take that's where the

2165

01:48:31,380 --> 01:48:29,230

Geo mythology thing comes in I'm trying

2166

01:48:33,900 --> 01:48:31,390

to tell people and get the idea out

2167

01:48:37,680 --> 01:48:33,910

there that no the we have to look at

2168

01:48:41,580 --> 01:48:37,690

these are not the the contrivance --is

2169

01:48:45,210 --> 01:48:41,590

of illiterate pre scientific minds who

2170

01:48:47,190 --> 01:48:45,220

are just inventing stuff out of fear and

2171

01:48:51,000 --> 01:48:47,200

ignorance right no these are actual

2172

01:48:53,070 --> 01:48:51,010

records presented symbolically from our

2173

01:48:58,110 --> 01:48:53,080

ancestors who have gone through these

2174

01:49:01,200 --> 01:48:58,120

extraordinary experiences um if I may

2175

01:49:03,800 --> 01:49:01,210

another little short quote from Plato

2176
01:49:06,420 --> 01:49:03,810
which i think is highly relevant here

2177
01:49:09,030 --> 01:49:06,430
and he's talking about here that this

2178
01:49:11,100 --> 01:49:09,040
would be in a period the normal period

2179
01:49:14,040 --> 01:49:11,110
that we were talking about he says the

2180
01:49:17,190 --> 01:49:14,050
fact is that wherever the extremity of

2181
01:49:19,910 --> 01:49:17,200
winter frost or of summer Sun doesn't

2182
01:49:22,860 --> 01:49:19,920
present the human race is always

2183
01:49:26,370 --> 01:49:22,870
increasing at times and at other times

2184
01:49:29,550 --> 01:49:26,380
diminishing in numbers whatever happened

2185
01:49:32,430 --> 01:49:29,560
either in your country or in ours or any

2186
01:49:35,010 --> 01:49:32,440
other region of which we are informed if

2187
01:49:37,560 --> 01:49:35,020
any action which is Noble or greater and

2188
01:49:39,840 --> 01:49:37,570

any other way remarkable has taken place

2189

01:49:43,170 --> 01:49:39,850

all that has been written down of old

2190

01:49:46,080 --> 01:49:43,180

and is preserved in our temples whereas

2191

01:49:47,970 --> 01:49:46,090

you and other nations just being

2192

01:49:50,990 --> 01:49:47,980

provided with letters and the other

2193

01:49:55,410 --> 01:49:51,000

things which in advance states require

2194

01:49:58,620 --> 01:49:55,420

but then at the usual period now get

2195

01:50:02,250 --> 01:49:58,630

this at the usual period the stream from

2196

01:50:04,980 --> 01:50:02,260

heaven descends like a pestilence and

2197

01:50:07,170 --> 01:50:04,990

leaves only those of you who are

2198

01:50:10,500 --> 01:50:07,180

destitute of letters in education and

2199

01:50:13,290 --> 01:50:10,510

thus you have to begin all over again as

2200

01:50:16,050 --> 01:50:13,300

children and know nothing of what

2201
01:50:19,580 --> 01:50:16,060
happened in ancient times either among

2202
01:50:24,930 --> 01:50:19,590
us for among yourselves that was written

2203
01:50:30,420 --> 01:50:24,940
400 BC right yes and now yes it could

2204
01:50:32,250 --> 01:50:30,430
have been written yesterday yes yes like

2205
01:50:34,860 --> 01:50:32,260
I said I got this study sitting right in

2206
01:50:35,860 --> 01:50:34,870
front of me on my desk it's written by a

2207
01:50:37,540 --> 01:50:35,870
team

2208
01:50:42,400 --> 01:50:37,550
I'm gonna guess we're looking at

2209
01:50:45,250 --> 01:50:42,410
probably 25 or more scientists right

2210
01:50:46,600 --> 01:50:45,260
here's here's the title of this article

2211
01:50:52,480 --> 01:50:46,610
which which was published in the

2212
01:50:54,970 --> 01:50:52,490
mainstream scientific press in 2018

2213
01:50:59,800 --> 01:50:54,980

here's the title of the article it's in

2214

01:51:02,590 --> 01:50:59,810

two parts extraordinary that word now

2215

01:51:05,020 --> 01:51:02,600

that's not typically the you know the

2216

01:51:07,710 --> 01:51:05,030

dry Donna motive terms used by

2217

01:51:11,980 --> 01:51:07,720

scientists right right extraordinary

2218

01:51:15,420 --> 01:51:11,990

biomass burning episode and impact

2219

01:51:18,010 --> 01:51:15,430

winter triggered by the Younger Dryas

2220

01:51:21,280 --> 01:51:18,020

cosmic impact twelve thousand eight

2221

01:51:23,380 --> 01:51:21,290

hundred years ago and so these two

2222

01:51:25,600 --> 01:51:23,390

studies by these groups of scientists

2223

01:51:28,090 --> 01:51:25,610

are finding the imprints of these dis

2224

01:51:33,220 --> 01:51:28,100

extraordinary biomass burning episode

2225

01:51:34,900 --> 01:51:33,230

all over the world so now what we're

2226

01:51:37,990 --> 01:51:34,910

faced with here is scientific

2227

01:51:40,630 --> 01:51:38,000

confirmation of what these ancient

2228

01:51:45,970 --> 01:51:40,640

stories these ancient myths were telling

2229

01:51:49,710 --> 01:51:45,980

us all along the oh yeah yeah you you

2230

01:51:54,900 --> 01:51:49,720

brought up a point earlier that your

2231

01:51:59,320 --> 01:51:54,910

contribution to circumvent entropy is

2232

01:52:02,410 --> 01:51:59,330

Adam at a micro level building and

2233

01:52:07,510 --> 01:52:02,420

constructing and designing correctly

2234

01:52:09,910 --> 01:52:07,520

with forethought right that's right and

2235

01:52:13,900 --> 01:52:09,920

that's your contribution today what else

2236

01:52:15,940 --> 01:52:13,910

can we do I know that there is I mean

2237

01:52:19,390 --> 01:52:15,950

others in society right if we all

2238

01:52:21,720 --> 01:52:19,400

contribute our own little part then we

2239

01:52:25,480 --> 01:52:21,730

can start to get out in front of this

2240

01:52:28,900 --> 01:52:25,490

otherwise it's gonna come unglued all by

2241

01:52:32,800 --> 01:52:28,910

itself and physics says that it will

2242

01:52:34,840 --> 01:52:32,810

happen the universe has a way of always

2243

01:52:38,290 --> 01:52:34,850

moving in this direction it's just the

2244

01:52:43,720 --> 01:52:38,300

way that it is right well how do

2245

01:52:46,540 --> 01:52:43,730

businesses survive in a in a challenging

2246

01:52:48,130 --> 01:52:46,550

economy they diversify life does the

2247

01:52:49,390 --> 01:52:48,140

same thing this is how life has

2248

01:52:52,840 --> 01:52:49,400

increased it's

2249

01:52:55,770 --> 01:52:52,850

probabilities of not succumbing to the

2250

01:52:58,330 --> 01:52:55,780

effects of entropy is by diversification

2251
01:53:02,709 --> 01:52:58,340
when we look back at these catastrophes

2252
01:53:05,830 --> 01:53:02,719
one of the things we learn is that the

2253
01:53:08,830 --> 01:53:05,840
diversity of life may be reduced and in

2254
01:53:10,510 --> 01:53:08,840
most of these catastrophes it has

2255
01:53:12,189 --> 01:53:10,520
happened when we look at the green five

2256
01:53:14,590 --> 01:53:12,199
mass extinctions in Earth's history

2257
01:53:20,050 --> 01:53:14,600
that's what characterizes them as the is

2258
01:53:22,000 --> 01:53:20,060
the drastic reduction in the variety of

2259
01:53:23,590 --> 01:53:22,010
species you know during the the great

2260
01:53:26,020 --> 01:53:23,600
dying and what's called the Permian

2261
01:53:28,510 --> 01:53:26,030
Triassic that occurred around two

2262
01:53:31,570 --> 01:53:28,520
hundred and roughly 252 million years

2263
01:53:36,270 --> 01:53:31,580

ago as much as ninety percent of all

2264

01:53:38,260 --> 01:53:36,280

species on earth died off very quickly

2265

01:53:39,939 --> 01:53:38,270

you know the scientists are still

2266

01:53:42,610 --> 01:53:39,949

arguing what what triggered it what

2267

01:53:45,399 --> 01:53:42,620

seems to have been involved was the

2268

01:53:48,780 --> 01:53:45,409

conjoined effects of cosmic impact in

2269

01:53:51,550 --> 01:53:48,790

gigantic volcanism working together

2270

01:53:54,939 --> 01:53:51,560

amplifying if one amplifying the effects

2271

01:53:57,220 --> 01:53:54,949

of the other but even there and if we go

2272

01:53:58,930 --> 01:53:57,230

back you know we come forward to 66

2273

01:54:02,290 --> 01:53:58,940

million years ago to the Cretaceous

2274

01:54:04,479 --> 01:54:02,300

tertiary extinction that wiped out about

2275

01:54:07,240 --> 01:54:04,489

three-quarters of the species including

2276

01:54:09,250 --> 01:54:07,250

all the dinosaurs right what we do find

2277

01:54:12,399 --> 01:54:09,260

though is that there were places of

2278

01:54:16,229 --> 01:54:12,409

refuge there were places where life did

2279

01:54:19,120 --> 01:54:16,239

survive and from those places of refuge

2280

01:54:25,030 --> 01:54:19,130

seeds if you want to think of it that

2281

01:54:27,990 --> 01:54:25,040

way seeds pollen animal life then spread

2282

01:54:30,370 --> 01:54:28,000

out moved into these vacated

2283

01:54:33,610 --> 01:54:30,380

environments that had been destroyed in

2284

01:54:35,649 --> 01:54:33,620

the catastrophes and life can back it

2285

01:54:39,610 --> 01:54:35,659

was the key now and there's an

2286

01:54:41,709 --> 01:54:39,620

ecological terminus refugia for example

2287

01:54:43,780 --> 01:54:41,719

if we go back to these Younger Dryas

2288

01:54:45,790 --> 01:54:43,790

events of twelve or thirteen thousand

2289

01:54:48,430 --> 01:54:45,800

years ago when the great megafauna

2290

01:54:50,620 --> 01:54:48,440

disappeared right a lot of those species

2291

01:54:53,020 --> 01:54:50,630

are gone you know there's no woolly

2292

01:54:56,410 --> 01:54:53,030

mammoths roaming the world today right

2293

01:54:59,260 --> 01:54:56,420

right now however if we look at the

2294

01:55:02,570 --> 01:54:59,270

distribution of the megafauna now

2295

01:55:04,580 --> 01:55:02,580

compared to back then say let's take

2296

01:55:08,960 --> 01:55:04,590

North America first of all North America

2297

01:55:10,850 --> 01:55:08,970

lost about 75% of its megafauna species

2298

01:55:13,280 --> 01:55:10,860

now by MegaFon I mean two great

2299

01:55:15,020 --> 01:55:13,290

mammalian animals that weigh more than

2300

01:55:17,810 --> 01:55:15,030

about a hundred pounds in body weight

2301
01:55:21,800 --> 01:55:17,820
right both North and South America lost

2302
01:55:27,080 --> 01:55:21,810
about 75% of their megafauna species

2303
01:55:30,950 --> 01:55:27,090
Eurasia lost about 35% and Africa only

2304
01:55:33,830 --> 01:55:30,960
lost about 10% now what that means then

2305
01:55:36,910 --> 01:55:33,840
is that while the big animals got wiped

2306
01:55:40,010 --> 01:55:36,920
out a lot of other places they didn't

2307
01:55:41,510 --> 01:55:40,020
Africa like Central Africa the highlands

2308
01:55:43,580 --> 01:55:41,520
of Central Africa where there are so

2309
01:55:46,310 --> 01:55:43,590
many great megafauna species today

2310
01:55:50,090 --> 01:55:46,320
didn't get impacted as drastically and

2311
01:55:52,340 --> 01:55:50,100
that is in fact why Africa has so many

2312
01:55:55,160 --> 01:55:52,350
large animal species because they were

2313
01:55:58,460 --> 01:55:55,170

able to 90% of the Pleistocene megafauna

2314

01:56:01,210 --> 01:55:58,470

of Africa survived so what this is

2315

01:56:05,930 --> 01:56:01,220

telling us though is that even though

2316

01:56:08,750 --> 01:56:05,940

there were dramatic effects in Africa it

2317

01:56:10,700 --> 01:56:08,760

wasn't as as dramatically impact it is

2318

01:56:13,700 --> 01:56:10,710

say North America North America appears

2319

01:56:16,250 --> 01:56:13,710

to have been basically Ground Zero and I

2320

01:56:19,940 --> 01:56:16,260

think that perhaps in the area of Kenya

2321

01:56:22,520 --> 01:56:19,950

the Great Rift zone is where a lot of

2322

01:56:24,860 --> 01:56:22,530

these species of animals did survive and

2323

01:56:28,510 --> 01:56:24,870

we're able to you know at that point

2324

01:56:32,360 --> 01:56:28,520

branch backed out and repopulate

2325

01:56:34,700 --> 01:56:32,370

northern Africa and in the you know

2326

01:56:37,700 --> 01:56:34,710

Central African regions in other places

2327

01:56:39,350 --> 01:56:37,710

those species got completely

2328

01:56:42,650 --> 01:56:39,360

exterminated

2329

01:56:44,450 --> 01:56:42,660

you know the super Bison that existed

2330

01:56:47,390 --> 01:56:44,460

that was twice the size of the modern

2331

01:56:50,630 --> 01:56:47,400

bison probably underwent some kind of a

2332

01:56:53,030 --> 01:56:50,640

genetic change that helped it survive by

2333

01:56:54,620 --> 01:56:53,040

being reduced in size which reduced the

2334

01:56:57,320 --> 01:56:54,630

amount of food that it need to eat

2335

01:57:00,470 --> 01:56:57,330

because in the event of an environmental

2336

01:57:02,720 --> 01:57:00,480

catastrophe food becomes much more

2337

01:57:04,700 --> 01:57:02,730

difficult to obtain particularly for the

2338

01:57:07,610 --> 01:57:04,710

large herbivores so if you've got a

2339

01:57:09,230 --> 01:57:07,620

collapse in the food chain and in this

2340

01:57:12,350 --> 01:57:09,240

case we're talking about say biomass

2341

01:57:15,419 --> 01:57:12,360

burning massive climate change so we've

2342

01:57:19,890 --> 01:57:15,429

got degradation of the of the

2343

01:57:22,350 --> 01:57:19,900

of the biosphere in large swaths and the

2344

01:57:25,069 --> 01:57:22,360

food supply collapse so the herbivores

2345

01:57:27,449 --> 01:57:25,079

they then succumb to that then the

2346

01:57:31,529 --> 01:57:27,459

predators that are living on the

2347

01:57:33,870 --> 01:57:31,539

herbivores they succumb but the point is

2348

01:57:37,169 --> 01:57:33,880

is that some species do survive

2349

01:57:39,330 --> 01:57:37,179

and oftentimes we see rapid evolutionary

2350

01:57:42,259 --> 01:57:39,340

changes in those species bison being a

2351
01:57:46,250 --> 01:57:42,269
great example and and we can further

2352
01:57:48,620 --> 01:57:46,260
learn from Bisons because we know that

2353
01:57:51,239 --> 01:57:48,630
that once upon a time there were

2354
01:57:52,919 --> 01:57:51,249
literally millions of individual bison

2355
01:57:55,109 --> 01:57:52,929
roaming the great plains of North

2356
01:57:57,839 --> 01:57:55,119
America when they when the Europeans

2357
01:58:00,540 --> 01:57:57,849
arrived right and we know that coming

2358
01:58:02,549 --> 01:58:00,550
close to the end of the 19th century

2359
01:58:05,429 --> 01:58:02,559
their numbers had been reduced to a few

2360
01:58:08,609 --> 01:58:05,439
hundred right so the American North

2361
01:58:10,739 --> 01:58:08,619
American bison came literally within a

2362
01:58:12,839 --> 01:58:10,749
hair's breadth of going extinct that's

2363
01:58:15,149 --> 01:58:12,849

right but what then what right right but

2364

01:58:16,919 --> 01:58:15,159

now look you walking you can walk into

2365

01:58:19,319 --> 01:58:16,929

the store and you can buy bison burger

2366

01:58:22,679 --> 01:58:19,329

right there's been a complete rebounding

2367

01:58:25,830 --> 01:58:22,689

of the species along because of first of

2368

01:58:27,810 --> 01:58:25,840

all humans were responsible for causing

2369

01:58:30,330 --> 01:58:27,820

them to almost go extinct but then

2370

01:58:33,359 --> 01:58:30,340

humans were also responsible for aiding

2371

01:58:36,299 --> 01:58:33,369

and abetting their recovery right and so

2372

01:58:38,879 --> 01:58:36,309

if you were to look back thousands of

2373

01:58:41,189 --> 01:58:38,889

years from now at the fossil record and

2374

01:58:44,399 --> 01:58:41,199

you're gonna attract you know the the

2375

01:58:46,410 --> 01:58:44,409

lifecycle of bison you would probably

2376

01:58:48,660 --> 01:58:46,420

completely miss the fact that they had

2377

01:58:51,089 --> 01:58:48,670

come within this hair's breadth of

2378

01:58:53,370 --> 01:58:51,099

extinction you could that get totally

2379

01:58:55,830 --> 01:58:53,380

lost in the noise you see and you

2380

01:58:59,219 --> 01:58:55,840

wouldn't even know so what I'm getting

2381

01:59:01,850 --> 01:58:59,229

at here is that we now know that many

2382

01:59:04,049 --> 01:59:01,860

species through three quarters of

2383

01:59:07,979 --> 01:59:04,059

megafauna species in North America went

2384

01:59:09,899 --> 01:59:07,989

extinct extinct the other 25% wouldn't

2385

01:59:11,850 --> 01:59:09,909

have come through unscathed their

2386

01:59:13,830 --> 01:59:11,860

numbers would have been reduced but

2387

01:59:17,189 --> 01:59:13,840

there was enough of them that they were

2388

01:59:19,290 --> 01:59:17,199

able to repopulate and in fact once a

2389

01:59:22,890 --> 01:59:19,300

lot of the large predators were gone it

2390

01:59:24,629 --> 01:59:22,900

opened up a whole new slew of eco zones

2391

01:59:26,580 --> 01:59:24,639

that they could then move into and

2392

01:59:28,410 --> 01:59:26,590

inhabit but work it's interesting is

2393

01:59:29,220 --> 01:59:28,420

because we also see the disappearance of

2394

01:59:31,680 --> 01:59:29,230

the closest row

2395

01:59:34,290 --> 01:59:31,690

this culture that showed up suddenly

2396

01:59:36,390 --> 01:59:34,300

left its artifacts all over the

2397

01:59:38,070 --> 01:59:36,400

landscape of non glaciated North America

2398

01:59:40,440 --> 01:59:38,080

from the Atlantic to the Pacific and

2399

01:59:44,090 --> 01:59:40,450

then right at the onset of the Younger

2400

01:59:46,200 --> 01:59:44,100

Dryas boom they disappeared and

2401
01:59:49,320 --> 01:59:46,210
interesting their remains are not being

2402
01:59:53,610 --> 01:59:49,330
found of what's being found is their is

2403
01:59:55,380 --> 01:59:53,620
their artifacts yeah yeah it's amazing

2404
01:59:57,540 --> 01:59:55,390
to me we need to take a break right here

2405
02:00:00,990 --> 01:59:57,550
but when it comes to the Clovis culture

2406
02:00:02,280 --> 02:00:01,000
how little we actually know right here

2407
02:00:04,470 --> 02:00:02,290
in our own backyard

2408
02:00:06,870 --> 02:00:04,480
Randall it's fascinating to me let's

2409
02:00:08,370 --> 02:00:06,880
continue this conversation right where

2410
02:00:11,100 --> 02:00:08,380
we're leaving off after this short break

2411
02:00:13,170 --> 02:00:11,110
our guest tonight Randall Carlson the

2412
02:00:15,750 --> 02:00:13,180
beard of knowledge I'm arrows Jimmy

2413
02:00:20,740 --> 02:00:15,760

church this is fade to black stay with

2414

02:00:27,870 --> 02:00:23,000

everybody's Rob Halford the mental guard

2415

02:00:34,510 --> 02:00:31,150

this is KCRA digital broadcasting

2416

02:00:37,090 --> 02:00:34,520

station Salt Lake City Utah Van Buren

2417

02:00:39,340 --> 02:00:37,100

Arkansas why is it we're not very good

2418

02:00:39,760 --> 02:00:39,350

with our health regiment until it's too

2419

02:00:41,530 --> 02:00:39,770

late

2420

02:00:43,450 --> 02:00:41,540

we don't put oil in the car until the

2421

02:00:46,210 --> 02:00:43,460

engine blows up when the body's out of

2422

02:00:47,410 --> 02:00:46,220

balance your health is not so good give

2423

02:00:50,220 --> 02:00:47,420

your body some love

2424

02:00:52,930 --> 02:00:50,230

log on to get the t.com that's get the

2425

02:00:55,150 --> 02:00:52,940

t.com try our life change tea which

2426
02:00:57,730 --> 02:00:55,160
cleanses you from harmful intruders a

2427
02:00:58,990 --> 02:00:57,740
clean colon is one of the ways to bring

2428
02:01:01,060 --> 02:00:59,000
the body and balance

2429
02:01:03,250 --> 02:01:01,070
we also carry organic supplements to

2430
02:01:05,680 --> 02:01:03,260
help you get where you need to go

2431
02:01:09,880 --> 02:01:05,690
so do your body a favor log on to get

2432
02:01:12,190 --> 02:01:09,890
the t.com that's get the tte a calm you

2433
02:01:14,590 --> 02:01:12,200
can even visit our sales page to save

2434
02:01:16,900 --> 02:01:14,600
some dough does anybody call money dough

2435
02:01:19,240 --> 02:01:16,910
anymore anyway if you're looking for

2436
02:01:22,420 --> 02:01:19,250
short helpful health tips go to youtube

2437
02:01:27,250 --> 02:01:22,430
and punch in health matters now that's

2438
02:01:30,640 --> 02:01:27,260

health matters now so log on to get the

2439

02:01:33,640 --> 02:01:30,650

t.com shop get balanced then learn some

2440

02:01:34,270 --> 02:01:33,650

cool tips at health matters now you'll

2441

02:01:38,290 --> 02:01:34,280

be glad you did

2442

02:01:41,710 --> 02:01:38,300

that's get the t-dot-com your contact

2443

02:01:45,520 --> 02:01:41,720

for current news and trending topics GRA

2444

02:01:47,710 --> 02:01:45,530

radio.com this is Jimmy Church of fade

2445

02:01:50,950 --> 02:01:47,720

to black and I only drink

2446

02:01:53,470 --> 02:01:50,960

fade to black blend coffee from River

2447

02:01:56,290 --> 02:01:53,480

Moon just click on the river moon Coffee

2448

02:02:00,910 --> 02:01:56,300

Banner at Jimmy Church radio.com promo

2449

02:02:03,460 --> 02:02:00,920

code f2b blend so are you tired of being

2450

02:02:05,560 --> 02:02:03,470

tired well then it's time to get the tea

2451
02:02:08,110 --> 02:02:05,570
hey it's Lisa here to tell you about

2452
02:02:09,910 --> 02:02:08,120
this all-natural all organic tea I've

2453
02:02:11,290 --> 02:02:09,920
been drinking that has had great results

2454
02:02:14,200 --> 02:02:11,300
for over 20 years

2455
02:02:16,030 --> 02:02:14,210
it's called life changed tea and it's

2456
02:02:18,670 --> 02:02:16,040
specially formulated to help detoxify

2457
02:02:21,370 --> 02:02:18,680
and cleanse your kidneys liver colon and

2458
02:02:22,900 --> 02:02:21,380
blood all at once the colon is one of

2459
02:02:25,510 --> 02:02:22,910
the most ignored organs in the human

2460
02:02:27,340 --> 02:02:25,520
body the faster that waste is eliminated

2461
02:02:29,320 --> 02:02:27,350
from the body the less time that way

2462
02:02:31,240 --> 02:02:29,330
sits in our intestines spreading toxins

2463
02:02:33,190 --> 02:02:31,250

to our bloodstream this tea helps

2464

02:02:35,440 --> 02:02:33,200

cleanse chemicals caused by outside

2465

02:02:38,140 --> 02:02:35,450

intruders from our entire digestive

2466

02:02:39,430 --> 02:02:38,150

system and get this weight loss can be a

2467

02:02:41,590 --> 02:02:39,440

side effect

2468

02:02:43,570 --> 02:02:41,600

with continued use of the tea you can

2469

02:02:46,150 --> 02:02:43,580

experience clearer healthier younger

2470

02:02:47,979 --> 02:02:46,160

looking skin increased energy and a

2471

02:02:49,300 --> 02:02:47,989

happier outlook on life so if you're

2472

02:02:52,060 --> 02:02:49,310

tired of being tired

2473

02:02:55,930 --> 02:02:52,070

get the life changed tea at get the tea

2474

02:02:57,450 --> 02:02:55,940

calm that's get the tea calm and like me

2475

02:02:59,650 --> 02:02:57,460

you'll be glad you did

2476

02:03:01,360 --> 02:02:59,660

did you know that when you're on the

2477

02:03:03,820 --> 02:03:01,370

road with limited data or Wi-Fi

2478

02:03:05,950 --> 02:03:03,830

available you can still listen to every

2479

02:03:08,530 --> 02:03:05,960

minute a fade to black by just calling

2480

02:03:11,590 --> 02:03:08,540

six oh five five six two four four eight

2481

02:03:14,080 --> 02:03:11,600

two no smartphone app or Internet needed

2482

02:03:16,660 --> 02:03:14,090

it saves your data plan and no extra

2483

02:03:19,479 --> 02:03:16,670

cost if you have unlimited minutes just

2484

02:03:21,640 --> 02:03:19,489

call six oh five five six two four four

2485

02:03:24,670 --> 02:03:21,650

eight two you can listen to me Jimmy

2486

02:03:43,840 --> 02:03:24,680

Church on any phone anytime anywhere

2487

02:03:47,500 --> 02:03:43,850

Gobekli Tepe I'm serious I couldn't stay

2488

02:03:54,379 --> 02:03:47,510

sane without Pony mr. Brooks why fade to

2489

02:03:58,379 --> 02:03:56,250

this is fade to black

2490

02:04:02,040 --> 02:03:58,389

with Jimmy Church on the game changer

2491

02:04:16,270 --> 02:04:02,050

radio network and K GRA the global radio

2492

02:04:20,320 --> 02:04:18,550

welcome back fade to black I am your

2493

02:04:25,060 --> 02:04:20,330

host Amy Church I guess tonight Randall

2494

02:04:27,970 --> 02:04:25,070

Carlson talking about entropy going

2495

02:04:29,830 --> 02:04:27,980

through it right now we're staring at it

2496

02:04:31,750 --> 02:04:29,840

and what can we do about it

2497

02:04:34,330 --> 02:04:31,760

and and random when we talk about these

2498

02:04:38,110 --> 02:04:34,340

great catastrophes throughout the past

2499

02:04:40,990 --> 02:04:38,120

and I do want to go back and and talk

2500

02:04:44,890 --> 02:04:41,000

about what happened 60 65 million years

2501
02:04:47,400 --> 02:04:44,900
ago but looking at us today with the ice

2502
02:04:50,790 --> 02:04:47,410
caps melting and we're watching these

2503
02:04:54,550 --> 02:04:50,800
giant ice shelves and icebergs just

2504
02:04:58,090 --> 02:04:54,560
collapse into the oceans and and we can

2505
02:05:02,020 --> 02:04:58,100
see the removal of these these glaciers

2506
02:05:04,300 --> 02:05:02,030
that have been so permanent around the

2507
02:05:08,740 --> 02:05:04,310
world literally disappearing overnight

2508
02:05:12,640 --> 02:05:08,750
how many degrees of temperature in the

2509
02:05:18,370 --> 02:05:12,650
shift change is is causing this today

2510
02:05:20,770 --> 02:05:18,380
with the shutdown of factories and and

2511
02:05:23,350 --> 02:05:20,780
transportation and automobiles and and

2512
02:05:25,720 --> 02:05:23,360
and boats and things that that have

2513
02:05:29,920 --> 02:05:25,730

caused some of this temperature change

2514

02:05:31,480 --> 02:05:29,930

is it enough for our scientists to go

2515

02:05:34,990 --> 02:05:31,490

and look at the data and say hey wait a

2516

02:05:39,610 --> 02:05:35,000

minute here if we cut back the somewhat

2517

02:05:42,160 --> 02:05:39,620

we can reverse this and and kick it back

2518

02:05:45,220 --> 02:05:42,170

a few degrees or is it too much for us

2519

02:05:46,870 --> 02:05:45,230

to to handle do you have any idea what

2520

02:05:50,470 --> 02:05:46,880

what kind of temperature change we're

2521

02:05:51,940 --> 02:05:50,480

talking about alright yeah I mean we've

2522

02:05:53,530 --> 02:05:51,950

since the end of the Little Ice Age

2523

02:05:55,560 --> 02:05:53,540

we've seen a temperature increase of

2524

02:06:00,700 --> 02:05:55,570

about a degree to a degree and a half

2525

02:06:03,670 --> 02:06:00,710

but the glaciers that are presently

2526

02:06:05,530 --> 02:06:03,680

occupied mountain valleys right are not

2527

02:06:08,500 --> 02:06:05,540

as permanent as people believe they are

2528

02:06:13,120 --> 02:06:08,510

I have dozens of studies here in my

2529

02:06:14,650 --> 02:06:13,130

archives looking at the expansion and

2530

02:06:16,240 --> 02:06:14,660

contraction of glaciers throughout the

2531

02:06:18,310 --> 02:06:16,250

Holocene which is the last eleven

2532

02:06:20,440 --> 02:06:18,320

thousand six hundred years right it's

2533

02:06:24,010 --> 02:06:20,450

quite extraordinary how dynamic they

2534

02:06:28,140 --> 02:06:24,020

have been you know there have been major

2535

02:06:29,500 --> 02:06:28,150

recessions of glaciers before this

2536

02:06:32,890 --> 02:06:29,510

network

2537

02:06:35,950 --> 02:06:32,900

one hour wait hold on for a second that

2538

02:06:41,680 --> 02:06:35,960

weren't man-made that weren't causes

2539

02:06:44,950 --> 02:06:41,690

we're not okay or man closed yeah man

2540

02:06:46,050 --> 02:06:44,960

cause man cause human cause right

2541

02:06:51,010 --> 02:06:46,060

exactly

2542

02:06:53,980 --> 02:06:51,020

most likely due to solar effects I think

2543

02:06:55,600 --> 02:06:53,990

that's going to emerge to be a I think

2544

02:06:59,320 --> 02:06:55,610

the Sun is gonna merge to be a much

2545

02:07:01,090 --> 02:06:59,330

bigger player in global temperature

2546

02:07:04,750 --> 02:07:01,100

change on earth than it has been given

2547

02:07:06,970 --> 02:07:04,760

credit for again there are many dozens

2548

02:07:09,340 --> 02:07:06,980

and dozens of studies looking at the

2549

02:07:12,940 --> 02:07:09,350

effects of the Sun and how positive

2550

02:07:17,320 --> 02:07:12,950

feedback effects might amplify small

2551
02:07:18,750 --> 02:07:17,330
changes in solar radiative output and it

2552
02:07:21,700 --> 02:07:18,760
could cause significant climatic

2553
02:07:23,830 --> 02:07:21,710
climatological changes on earth and we

2554
02:07:25,030 --> 02:07:23,840
do know that throughout the Holocene

2555
02:07:27,310 --> 02:07:25,040
there have been major glacial

2556
02:07:28,660 --> 02:07:27,320
fluctuations before a lot of the

2557
02:07:30,460 --> 02:07:28,670
glaciers for example now that are

2558
02:07:32,440 --> 02:07:30,470
receding in the in the Alps I'll just

2559
02:07:35,200 --> 02:07:32,450
cite that as an example as they're

2560
02:07:36,940 --> 02:07:35,210
melting back what's happening what what

2561
02:07:38,470 --> 02:07:36,950
they're you know as they melting back

2562
02:07:41,860 --> 02:07:38,480
there was they're revealing

2563
02:07:44,290 --> 02:07:41,870

ground landscapes that had had for the

2564

02:07:46,840 --> 02:07:44,300

last oh five hundred years or so had

2565

02:07:50,020 --> 02:07:46,850

been had been under the glaciers under

2566

02:07:53,290 --> 02:07:50,030

the ice right now they're receding back

2567

02:07:55,420 --> 02:07:53,300

and what do you think the you know the

2568

02:07:57,250 --> 02:07:55,430

glaciologists and geologists are finding

2569

02:07:59,770 --> 02:07:57,260

they're finding the remnants of forests

2570

02:08:01,900 --> 02:07:59,780

that had been growing there not so long

2571

02:08:04,690 --> 02:08:01,910

ago going back to the Medieval Warm

2572

02:08:07,000 --> 02:08:04,700

Period which was roughly from about a

2573

02:08:09,250 --> 02:08:07,010

thousand nine hundred to a thousand AD

2574

02:08:11,830 --> 02:08:09,260

up to about between thirteen and

2575

02:08:14,530 --> 02:08:11,840

fourteen hundred AD when the climate

2576

02:08:16,270 --> 02:08:14,540

cooled by about two degrees and this

2577

02:08:20,170 --> 02:08:16,280

brought on the Little Ice Age that

2578

02:08:22,360 --> 02:08:20,180

prevailed up until about the mid 1800s

2579

02:08:24,520 --> 02:08:22,370

and they didn't begin to ameliorate and

2580

02:08:28,990 --> 02:08:24,530

during the last phase of the Little Ice

2581

02:08:32,470 --> 02:08:29,000

Age there were periods of protracted

2582

02:08:34,570 --> 02:08:32,480

solar inactivity the maunder minimum the

2583

02:08:38,050 --> 02:08:34,580

doll term in among the spohrer minimum

2584

02:08:40,840 --> 02:08:38,060

all of these were periods that where the

2585

02:08:42,380 --> 02:08:40,850

Sun was seen and actually observed to be

2586

02:08:45,280 --> 02:08:42,390

inactive the number of Sun

2587

02:08:48,020 --> 02:08:45,290

spots declined to almost nothing and

2588

02:08:50,990 --> 02:08:48,030

global temperatures dropped during these

2589

02:08:54,230 --> 02:08:51,000

periods of solar inactivity and then in

2590

02:08:56,780 --> 02:08:54,240

the late 1800s Early 1900s the Sun

2591

02:08:58,640 --> 02:08:56,790

became active again and guess what the

2592

02:09:02,090 --> 02:08:58,650

planet started warming now I'm not

2593

02:09:04,370 --> 02:09:02,100

saying that that's the total factor but

2594

02:09:06,650 --> 02:09:04,380

it I think is an important factor that

2595

02:09:08,990 --> 02:09:06,660

has been downplayed in terms of its

2596

02:09:12,740 --> 02:09:09,000

importance in causing the 20th century

2597

02:09:14,630 --> 02:09:12,750

warming and by the way we the planet is

2598

02:09:18,590 --> 02:09:14,640

not really statistically warmed in the

2599

02:09:21,500 --> 02:09:18,600

last almost in more than 15 almost 20

2600

02:09:23,030 --> 02:09:21,510

years a lot of the glacier recession

2601
02:09:24,440 --> 02:09:23,040
that's going on right now is going to be

2602
02:09:29,030 --> 02:09:24,450
residual because there's always a lag

2603
02:09:31,100 --> 02:09:29,040
effect you know if you change the

2604
02:09:33,410 --> 02:09:31,110
temperature for example set an ice cube

2605
02:09:36,080 --> 02:09:33,420
tray out on the on the on the table

2606
02:09:38,420 --> 02:09:36,090
right well there's a lag it doesn't

2607
02:09:41,060 --> 02:09:38,430
instantly melt does it unless you you

2608
02:09:42,770 --> 02:09:41,070
know subjected it to an enormous amount

2609
02:09:45,260 --> 02:09:42,780
of heat it's not going to instantly melt

2610
02:09:48,370 --> 02:09:45,270
but it's going to melt over a period of

2611
02:09:50,960 --> 02:09:48,380
time over several hours right and so

2612
02:09:53,750 --> 02:09:50,970
we've got basically I think we're seeing

2613
02:09:55,040 --> 02:09:53,760

a lag time and it's interesting when you

2614

02:09:57,140 --> 02:09:55,050

when we're talking about ancient

2615

02:10:01,600 --> 02:09:57,150

civilizations and this is something I've

2616

02:10:04,610 --> 02:10:01,610

written about extensively is that we see

2617

02:10:07,580 --> 02:10:04,620

civilizations prospering during periods

2618

02:10:10,760 --> 02:10:07,590

of global warmth and declining during

2619

02:10:13,130 --> 02:10:10,770

periods of global cooling because it

2620

02:10:16,790 --> 02:10:13,140

follows and it's really pretty logical

2621

02:10:18,770 --> 02:10:16,800

when you we can go back to the Year 536

2622

02:10:21,110 --> 02:10:18,780

ad which is considered a bit the coldest

2623

02:10:23,990 --> 02:10:21,120

year of the last 2,000 years right and

2624

02:10:27,130 --> 02:10:24,000

this was if you want to like try to

2625

02:10:30,140 --> 02:10:27,140

single out one year that could mark the

2626

02:10:32,900 --> 02:10:30,150

inception of the so-called Dark Ages

2627

02:10:36,530 --> 02:10:32,910

that would be the year right and what

2628

02:10:39,680 --> 02:10:36,540

happened is 536 was an extremely cold

2629

02:10:43,100 --> 02:10:39,690

year and for the next decade you had

2630

02:10:46,760 --> 02:10:43,110

some of the coldest years of the of the

2631

02:10:49,310 --> 02:10:46,770

last 2,000 years and the planet actually

2632

02:10:51,890 --> 02:10:49,320

went dark I mean in the sense that if we

2633

02:10:54,170 --> 02:10:51,900

look back and some of them the archives

2634

02:10:55,680 --> 02:10:54,180

the the writings into journals of the

2635

02:10:58,020 --> 02:10:55,690

monks and so forth

2636

02:11:01,590 --> 02:10:58,030

they will talk about you know the Sun

2637

02:11:03,450 --> 02:11:01,600

just being a dim dim in the sky or weeks

2638

02:11:06,900 --> 02:11:03,460

at a time where they're not seeing any

2639

02:11:10,470 --> 02:11:06,910

Sun everything is overcast there's a lot

2640

02:11:12,740 --> 02:11:10,480

of dust in the atmosphere and it now

2641

02:11:16,140 --> 02:11:12,750

does appear that we've got this by

2642

02:11:17,760 --> 02:11:16,150

bimodal effect going on there's evidence

2643

02:11:20,640 --> 02:11:17,770

that there were several huge volcanic

2644

02:11:23,970 --> 02:11:20,650

eruptions and possibly even a couple of

2645

02:11:25,830 --> 02:11:23,980

impacts of small asteroids right one in

2646

02:11:27,300 --> 02:11:25,840

the northern hemisphere off the coast of

2647

02:11:30,360 --> 02:11:27,310

Norway another one in the southern

2648

02:11:32,400 --> 02:11:30,370

hemisphere right now this Dark Age

2649

02:11:35,970 --> 02:11:32,410

period lasted for between three and four

2650

02:11:40,110 --> 02:11:35,980

hundred years right it spelled the final

2651
02:11:42,840 --> 02:11:40,120
doom of the Roman Empire it did and yes

2652
02:11:45,570 --> 02:11:42,850
and because of this cold weather you had

2653
02:11:48,830 --> 02:11:45,580
a succession of agricultural collapses

2654
02:11:52,230 --> 02:11:48,840
so food became in very short supply

2655
02:11:55,290 --> 02:11:52,240
people began to starve because of the

2656
02:11:59,310 --> 02:11:55,300
malnutrition their immune systems got

2657
02:12:04,620 --> 02:11:59,320
weak right so this this cold came on

2658
02:12:07,530 --> 02:12:04,630
suddenly in 536 ad six years later in in

2659
02:12:10,320 --> 02:12:07,540
542 ad you had the onset of the

2660
02:12:13,710 --> 02:12:10,330
Justinian plague that wiped out at least

2661
02:12:16,350 --> 02:12:13,720
1/3 the population of Europe now that

2662
02:12:17,850 --> 02:12:16,360
cold that period of cold and dark like I

2663
02:12:21,270 --> 02:12:17,860

said lasted for three to four hundred

2664

02:12:23,640 --> 02:12:21,280

years then between 900 and 1000 AD at

2665

02:12:27,180 --> 02:12:23,650

the planet began to warm a lot of the

2666

02:12:30,870 --> 02:12:27,190

studies will suggest and and support the

2667

02:12:33,890 --> 02:12:30,880

idea that this 300 year period of global

2668

02:12:36,140 --> 02:12:33,900

warmth was actually warmer than today

2669

02:12:39,600 --> 02:12:36,150

it's called the Medieval Warm Period

2670

02:12:41,520 --> 02:12:39,610

because of the warming period the

2671

02:12:45,930 --> 02:12:41,530

growing season extended by roughly a

2672

02:12:48,840 --> 02:12:45,940

month and you had prolific crops because

2673

02:12:55,620 --> 02:12:48,850

because of the warming oceans began to

2674

02:12:59,190 --> 02:12:55,630

out gas co2 well the the type of plants

2675

02:13:01,980 --> 02:12:59,200

that are that rely very much on co2 for

2676

02:13:05,040 --> 02:13:01,990

photosynthesis include the c4 plants

2677

02:13:07,800 --> 02:13:05,050

which are most food crops so with this

2678

02:13:08,240 --> 02:13:07,810

influx of co2 into the atmosphere it

2679

02:13:11,180 --> 02:13:08,250

hell

2680

02:13:13,840 --> 02:13:11,190

trigger a regeneration of agriculture so

2681

02:13:16,730 --> 02:13:13,850

you had us now instead of a series of

2682

02:13:20,000 --> 02:13:16,740

agricultural collapses you had a 'grill

2683

02:13:21,860 --> 02:13:20,010

abundance so over us and it was during

2684

02:13:25,010 --> 02:13:21,870

this period of time that that Greenland

2685

02:13:27,200 --> 02:13:25,020

because the ice had retracted in the

2686

02:13:27,890 --> 02:13:27,210

green in Greenland and the planet had

2687

02:13:31,070 --> 02:13:27,900

warmed

2688

02:13:32,870 --> 02:13:31,080

now you had the the Scandinavians going

2689

02:13:36,710 --> 02:13:32,880

and farming on the west coast of

2690

02:13:38,840 --> 02:13:36,720

Greenland where you know come when the

2691

02:13:41,510 --> 02:13:38,850

Little Ice Age came on that returned the

2692

02:13:44,570 --> 02:13:41,520

permafrost right so during this period

2693

02:13:46,910 --> 02:13:44,580

of abundance and warmth you had increase

2694

02:13:48,500 --> 02:13:46,920

in human population increase in human

2695

02:13:51,860 --> 02:13:48,510

lifespan decrease in infant mortality

2696

02:13:54,530 --> 02:13:51,870

and because of the surpluses you now

2697

02:13:57,440 --> 02:13:54,540

were able to have a growth in human

2698

02:13:59,660 --> 02:13:57,450

population and guess what by the mid

2699

02:14:02,960 --> 02:13:59,670

1100 you now had enough people that

2700

02:14:05,270 --> 02:14:02,970

could be organized into this this grand

2701
02:14:08,330 --> 02:14:05,280
and magnificent Cathedral building era

2702
02:14:11,090 --> 02:14:08,340
that lasted from for a hundred and fifty

2703
02:14:14,060 --> 02:14:11,100
years from about 1150 to the early 1300s

2704
02:14:16,040 --> 02:14:14,070
then look what happened early 1300s

2705
02:14:19,010 --> 02:14:16,050
between about thirteen fifteen and

2706
02:14:21,890 --> 02:14:19,020
thirteen forty the onset of the Little

2707
02:14:24,560 --> 02:14:21,900
Ice Age which appears to have coincided

2708
02:14:27,860 --> 02:14:24,570
with a period of solar inactivity and

2709
02:14:29,180 --> 02:14:27,870
you had now the Medieval Warm Period

2710
02:14:31,460 --> 02:14:29,190
came to an end

2711
02:14:34,790 --> 02:14:31,470
you had cold come back you had a

2712
02:14:39,770 --> 02:14:34,800
succession of agricultural failures you

2713
02:14:42,500 --> 02:14:39,780

had starvation right and then what

2714

02:14:45,320 --> 02:14:42,510

happened people got weak and come to

2715

02:14:47,030 --> 02:14:45,330

1340s you had the bubonic plague wiped

2716

02:14:48,770 --> 02:14:47,040

out a third the population of Europe

2717

02:14:50,810 --> 02:14:48,780

that was the end of the cathedral

2718

02:14:52,550 --> 02:14:50,820

building era and now for the next five

2719

02:14:55,460 --> 02:14:52,560

hundred years we were in and out of the

2720

02:14:57,440 --> 02:14:55,470

Little Ice Age until about 1850 or so

2721

02:14:59,720 --> 02:14:57,450

and we have been coming out of the

2722

02:15:02,780 --> 02:14:59,730

Little Ice Age that basically for the

2723

02:15:06,590 --> 02:15:02,790

last 150 years the glaciers that we're

2724

02:15:09,140 --> 02:15:06,600

seeing contracting within the last 50

2725

02:15:10,850 --> 02:15:09,150

years really started contracting a

2726

02:15:13,730 --> 02:15:10,860

hundred and fifty to one hundred and

2727

02:15:15,800 --> 02:15:13,740

seventy years ago a hundred years before

2728

02:15:20,660 --> 02:15:15,810

we were pumping co2 into the atmosphere

2729

02:15:21,460 --> 02:15:20,670

in any significant amounts right so what

2730

02:15:24,310 --> 02:15:21,470

has happened

2731

02:15:27,880 --> 02:15:24,320

is we there's this tendency now mostly

2732

02:15:30,520 --> 02:15:27,890

driven by politics to ignore the natural

2733

02:15:32,080 --> 02:15:30,530

forces which raises back to an idea I

2734

02:15:34,570 --> 02:15:32,090

was hitting upon before the brain this

2735

02:15:37,420 --> 02:15:34,580

idea of diversification and this is one

2736

02:15:41,050 --> 02:15:37,430

reason why I'm such an advocate for a

2737

02:15:44,250 --> 02:15:41,060

vigorous space program and establishing

2738

02:15:47,710 --> 02:15:44,260

beat heads of human activity in space

2739

02:15:50,740 --> 02:15:47,720

because if in the case of a global

2740

02:15:52,900 --> 02:15:50,750

catastrophe which is far more possible

2741

02:15:55,530 --> 02:15:52,910

than most people even think at this

2742

02:15:58,630 --> 02:15:55,540

point that would be one way of

2743

02:16:01,870 --> 02:15:58,640

preserving diversity I mean I would like

2744

02:16:04,470 --> 02:16:01,880

to see bases on the moon right I would

2745

02:16:07,870 --> 02:16:04,480

like to see us become a spacefaring

2746

02:16:10,690 --> 02:16:07,880

civilization that can explore the entire

2747

02:16:13,360 --> 02:16:10,700

solar system that can actually harvest

2748

02:16:15,970 --> 02:16:13,370

the asteroids the dangerous earth

2749

02:16:18,940 --> 02:16:15,980

crossing asteroids that could trigger

2750

02:16:20,770 --> 02:16:18,950

global collapse global catastrophe which

2751

02:16:23,080 --> 02:16:20,780

are the most likely candidate actually

2752

02:16:24,670 --> 02:16:23,090

for what would trigger a global

2753

02:16:26,500 --> 02:16:24,680

catastrophe is an asteroid impact

2754

02:16:29,530 --> 02:16:26,510

asteroids could begin to be about ten

2755

02:16:33,161 --> 02:16:29,540

times more likely to impact say than a

2756

02:16:35,980 --> 02:16:33,171

comet unless the comet disintegrated and

2757

02:16:38,860 --> 02:16:35,990

and littered the inner solar system with

2758

02:16:40,990 --> 02:16:38,870

the debris of its of its disintegration

2759

02:16:45,220 --> 02:16:41,000

and much of that debris would actually

2760

02:16:48,280 --> 02:16:45,230

be indistinguishable from asteroids but

2761

02:16:49,420 --> 02:16:48,290

you see we are now in a position I look

2762

02:16:53,590 --> 02:16:49,430

back when I was a kid

2763

02:16:55,210 --> 02:16:53,600

let's say in in grade school when you

2764

02:16:57,911 --> 02:16:55,220

know we first started venturing into

2765

02:17:00,791 --> 02:16:57,921

space because when I was born in 1951 we

2766

02:17:03,100 --> 02:17:00,801

had no presence in space at all right by

2767

02:17:06,990 --> 02:17:03,110

the time I got to adolescence we were

2768

02:17:10,150 --> 02:17:07,000

making the first forays into space okay

2769

02:17:11,081 --> 02:17:10,160

1961 John F Kennedy comes along and says

2770

02:17:12,791 --> 02:17:11,091

we're going to get to the moon by the

2771

02:17:14,920 --> 02:17:12,801

end of the 8th by the end of the decade

2772

02:17:17,440 --> 02:17:14,930

right now I know a lot of people think

2773

02:17:19,000 --> 02:17:17,450

that you know it's all a big hoax I've

2774

02:17:20,800 --> 02:17:19,010

looked into that we could talk about

2775

02:17:23,500 --> 02:17:20,810

that in a future show I don't believe

2776

02:17:26,740 --> 02:17:23,510

it's a hoax for a lot for many reasons

2777

02:17:28,690 --> 02:17:26,750

but but in any case what happened we are

2778

02:17:30,490 --> 02:17:28,700

now we have a very significant presence

2779

02:17:32,650 --> 02:17:30,500

in space however that's vulnerable

2780

02:17:34,450 --> 02:17:32,660

because of what I mentioned earlier this

2781

02:17:34,950 --> 02:17:34,460

Carrington level event if that was to

2782

02:17:38,070 --> 02:17:34,960

occur again

2783

02:17:39,900 --> 02:17:38,080

like what happened in 1859 and was

2784

02:17:42,810 --> 02:17:39,910

actually even a little more powerful it

2785

02:17:46,950 --> 02:17:42,820

could knock out our electrical systems

2786

02:17:49,290 --> 02:17:46,960

on a global scale this would be a real

2787

02:17:52,140 --> 02:17:49,300

challenge for us if that happened again

2788

02:17:55,230 --> 02:17:52,150

so we need to be developing technologies

2789

02:17:56,940 --> 02:17:55,240

that can actually resist geomagnetic

2790

02:17:59,280 --> 02:17:56,950

storms and solar storms this is all

2791

02:18:01,650 --> 02:17:59,290

within our technological capabilities we

2792

02:18:04,950 --> 02:18:01,660

are also now in a position where we are

2793

02:18:08,400 --> 02:18:04,960

about a decade away if we had the will

2794

02:18:10,530 --> 02:18:08,410

if we had the will we could be literally

2795

02:18:12,959 --> 02:18:10,540

within a decade or two harvesting

2796

02:18:15,240 --> 02:18:12,969

asteroids and interestingly and

2797

02:18:17,100 --> 02:18:15,250

ironically the asteroids that would be

2798

02:18:18,810 --> 02:18:17,110

the easiest to harvest are the ones that

2799

02:18:20,610 --> 02:18:18,820

are the most dangerous because they're

2800

02:18:22,620 --> 02:18:20,620

the ones that are earth crossers and

2801

02:18:24,080 --> 02:18:22,630

come the closest to Earth we could

2802

02:18:26,580 --> 02:18:24,090

perhaps do the entire process

2803

02:18:28,919 --> 02:18:26,590

robotically well without even sending

2804

02:18:31,530 --> 02:18:28,929

people I don't know if that would be the

2805

02:18:33,839 --> 02:18:31,540

you know weather which kind of systems

2806

02:18:34,799 --> 02:18:33,849

actually evolved if we set our minds to

2807

02:18:41,610 --> 02:18:34,809

it

2808

02:18:43,530 --> 02:18:41,620

the point if we don't do this because

2809

02:18:45,660 --> 02:18:43,540

this is the one of the points I've been

2810

02:18:48,870 --> 02:18:45,670

hammering on literally for 20 years now

2811

02:18:50,730 --> 02:18:48,880

we are sitting ducks in a cosmic

2812

02:18:53,490 --> 02:18:50,740

shooting gallery notice we could talk

2813

02:18:55,410 --> 02:18:53,500

dents ibly about the number of near

2814

02:18:57,660 --> 02:18:55,420

misses we've experienced in the last

2815

02:19:00,120 --> 02:18:57,670

decade or two is ramping up into the

2816

02:19:01,770 --> 02:19:00,130

hundreds right at the same time

2817

02:19:04,020 --> 02:19:01,780

astronomers are discovering that the

2818

02:19:06,270 --> 02:19:04,030

nearer space is much more densely

2819

02:19:08,580 --> 02:19:06,280

populated than anybody had imagined

2820

02:19:10,200 --> 02:19:08,590

right geologists are discovering that

2821

02:19:12,480 --> 02:19:10,210

the entire planetary surface is

2822

02:19:16,469 --> 02:19:12,490

pockmarked with the stars of these

2823

02:19:19,259 --> 02:19:16,479

cosmic events and so between the two and

2824

02:19:21,690 --> 02:19:19,269

then we've got the record of the legacy

2825

02:19:23,940 --> 02:19:21,700

of mythology and the stories of holes

2826

02:19:26,250 --> 02:19:23,950

that are confirming and telling us the

2827

02:19:28,020 --> 02:19:26,260

same stuff we've got the archaeological

2828

02:19:30,000 --> 02:19:28,030

records that are showing us that yes

2829

02:19:32,129 --> 02:19:30,010

civilizations have collapsed suddenly

2830

02:19:33,870 --> 02:19:32,139

we've got the paleontological record so

2831

02:19:36,060 --> 02:19:33,880

they're telling us that species have

2832

02:19:38,969 --> 02:19:36,070

suddenly collapsed and disappeared right

2833

02:19:41,700 --> 02:19:38,979

why is this happening so what I'm

2834

02:19:44,310 --> 02:19:41,710

advocating for first of all is we begin

2835

02:19:47,459 --> 02:19:44,320

to get come together as they plan it and

2836

02:19:48,540 --> 02:19:47,469

realize we're all on the same ship right

2837

02:19:51,160 --> 02:19:48,550

and if you

2838

02:19:53,940 --> 02:19:51,170

the event that could cause a global

2839

02:19:56,440 --> 02:19:53,950

catastrophe it doesn't care about planet

2840

02:19:58,330 --> 02:19:56,450

national boundaries doesn't care about

2841

02:20:01,570 --> 02:19:58,340

your ethnicity it doesn't care about

2842

02:20:04,719 --> 02:20:01,580

what religion you are right you know in

2843

02:20:07,479 --> 02:20:04,729

even a small catastrophe could could

2844

02:20:10,630 --> 02:20:07,489

completely disrupt the supply chain of

2845

02:20:14,019 --> 02:20:10,640

our food once that happens we're screwed

2846

02:20:15,940 --> 02:20:14,029

right what I've been trying to do is get

2847

02:20:19,330 --> 02:20:15,950

people to pay attention to the bigger

2848

02:20:20,650 --> 02:20:19,340

picture and and and that I think is

2849

02:20:23,679 --> 02:20:20,660

going to be the key to our survival

2850

02:20:27,099 --> 02:20:23,689

paying attention to the fact that we are

2851
02:20:28,900 --> 02:20:27,109
part of a bigger ecosystem and we need

2852
02:20:33,460 --> 02:20:28,910
to acknowledge that and we need to

2853
02:20:36,130 --> 02:20:33,470
respond to that and I personally am

2854
02:20:38,740 --> 02:20:36,140
optimistic and I have faith in the human

2855
02:20:41,019 --> 02:20:38,750
species that we can rise to the

2856
02:20:43,389 --> 02:20:41,029
challenge that we can do this thing

2857
02:20:46,990 --> 02:20:43,399
because I look at all the array of life

2858
02:20:49,840 --> 02:20:47,000
and I know from my studies that 99.999%

2859
02:20:52,330 --> 02:20:49,850
of every species that has ever lived on

2860
02:20:55,660 --> 02:20:52,340
this planet has gone extinct gone

2861
02:20:58,179 --> 02:20:55,670
extinct not because of some slow gradual

2862
02:21:00,519 --> 02:20:58,189
Darwinian process but have succumbed to

2863
02:21:02,950 --> 02:21:00,529

these repeated catastrophes and I think

2864

02:21:04,900 --> 02:21:02,960

human beings are nature's antidote to

2865

02:21:06,910 --> 02:21:04,910

that I think human beings are ultimately

2866

02:21:09,540 --> 02:21:06,920

the way we vindicate our presence on

2867

02:21:12,280 --> 02:21:09,550

this planet is by protecting this planet

2868

02:21:13,840 --> 02:21:12,290

preserving this planet against the kinds

2869

02:21:16,479 --> 02:21:13,850

of cosmic catastrophes that have

2870

02:21:20,290 --> 02:21:16,489

occurred over and over and over again

2871

02:21:23,559 --> 02:21:20,300

I see humans as life's strategy for the

2872

02:21:29,469 --> 02:21:23,569

survival and diversification of life how

2873

02:21:32,229 --> 02:21:29,479

if we go back to 530 ad and we look at

2874

02:21:33,519 --> 02:21:32,239

the the few degrees or degree degree and

2875

02:21:35,320 --> 02:21:33,529

I have two degrees three degrees of

2876
02:21:37,120 --> 02:21:35,330
temperature swing that happened over

2877
02:21:39,929 --> 02:21:37,130
three hundred four hundred year period

2878
02:21:43,150 --> 02:21:39,939
and then to have the warm what

2879
02:21:46,210 --> 02:21:43,160
Antarctica wasn't discovered by the

2880
02:21:53,410 --> 02:21:46,220
Russians allegedly okay until right

2881
02:21:57,620 --> 02:21:53,420
around 1817 the the ice shelves must

2882
02:21:59,600 --> 02:21:57,630
have been dropping off in the oceans

2883
02:22:02,660 --> 02:21:59,610
in the North and the South Poles right

2884
02:22:06,410 --> 02:22:02,670
if it was a hotter period after that

2885
02:22:09,500 --> 02:22:06,420
after that many ice age but we couldn't

2886
02:22:12,830 --> 02:22:09,510
see it or witness it going on but it

2887
02:22:14,540 --> 02:22:12,840
must have must have occurred right yes

2888
02:22:16,280 --> 02:22:14,550

and we know it has occurred and here's

2889

02:22:19,219 --> 02:22:16,290

why we know what has occurred because

2890

02:22:21,920 --> 02:22:19,229

when you have a large discharge of ice

2891

02:22:25,670 --> 02:22:21,930

off of the ice sheets into an ocean

2892

02:22:28,790 --> 02:22:25,680

those ice sheets have been grinding

2893

02:22:30,980 --> 02:22:28,800

across the land right that ice that gets

2894

02:22:33,950 --> 02:22:30,990

discharged is not pure ice

2895

02:22:38,450 --> 02:22:33,960

it's loaded with material that it is

2896

02:22:40,760 --> 02:22:38,460

that it has shoveled up in its movement

2897

02:22:44,090 --> 02:22:40,770

across the land that material that

2898

02:22:44,870 --> 02:22:44,100

gravelly sand detritus all that stuff

2899

02:22:47,960 --> 02:22:44,880

that's in there

2900

02:22:50,840 --> 02:22:47,970

when that ice breaks off into the ocean

2901

02:22:53,150 --> 02:22:50,850

it forms huge icebergs those icebergs

2902

02:22:56,780 --> 02:22:53,160

then begin to float out and as they move

2903

02:23:00,679 --> 02:22:56,790

into the into the lower latitudes they

2904

02:23:03,860 --> 02:23:00,689

melt when they melt the cargo of their

2905

02:23:06,170 --> 02:23:03,870

continentally derived material falls to

2906

02:23:09,440 --> 02:23:06,180

the ocean floor and it forms regular

2907

02:23:13,490 --> 02:23:09,450

layers and those are called dance guard

2908

02:23:16,010 --> 02:23:13,500

auger layers and we can now begin to

2909

02:23:19,460 --> 02:23:16,020

count those and realize yes there have

2910

02:23:22,400 --> 02:23:19,470

been repeated almost cyclical of

2911

02:23:24,740 --> 02:23:22,410

massive glacier expansion followed by

2912

02:23:27,950 --> 02:23:24,750

contraction followed by expansion and

2913

02:23:30,800 --> 02:23:27,960

during these events the discharges of

2914

02:23:33,230 --> 02:23:30,810

ice into the global oceans leave these

2915

02:23:36,080 --> 02:23:33,240

calling cards in these layers of very

2916

02:23:38,810 --> 02:23:36,090

coarse material because normally in an

2917

02:23:41,630 --> 02:23:38,820

ocean under normal circumstances you've

2918

02:23:45,730 --> 02:23:41,640

got all of the little the plankton and

2919

02:23:47,900 --> 02:23:45,740

the the benthic or bottom feeders the

2920

02:23:51,429 --> 02:23:47,910

creatures that live in the water column

2921

02:23:54,200 --> 02:23:51,439

they die they form a nice very

2922

02:23:57,620 --> 02:23:54,210

fine-grained sediment on the ocean floor

2923

02:24:00,260 --> 02:23:57,630

right that's normal right then we see

2924

02:24:02,570 --> 02:24:00,270

that those episodes of normal

2925

02:24:05,389 --> 02:24:02,580

sedimentation are interrupted and there

2926
02:24:07,250 --> 02:24:05,399
are these layers of coarse material they

2927
02:24:09,860 --> 02:24:07,260
study the coarse material thing okay

2928
02:24:11,630 --> 02:24:09,870
this was derived from Canada

2929
02:24:13,939 --> 02:24:11,640
this was derived say from

2930
02:24:16,670 --> 02:24:13,949
from the continent this is granitic

2931
02:24:18,670 --> 02:24:16,680
material this is not material it's even

2932
02:24:21,500 --> 02:24:18,680
native to this area it's been

2933
02:24:24,590 --> 02:24:21,510
transported here by icebergs so we know

2934
02:24:26,809 --> 02:24:24,600
that with it it's not even ambiguous do

2935
02:24:28,490 --> 02:24:26,819
we know that there have been large-scale

2936
02:24:30,110 --> 02:24:28,500
expansions and contractions of the

2937
02:24:32,120 --> 02:24:30,120
global ice sheets and this is part of

2938
02:24:34,370 --> 02:24:32,130

the norm and like you just said though

2939

02:24:36,559 --> 02:24:34,380

you know a few centuries ago we had no

2940

02:24:38,330 --> 02:24:36,569

way of observing that we can now observe

2941

02:24:44,689 --> 02:24:38,340

that again because we have a presence in

2942

02:24:46,729 --> 02:24:44,699

space the III just showed my notes I had

2943

02:24:50,149 --> 02:24:46,739

written some stuff down over the last

2944

02:24:51,979 --> 02:24:50,159

half hour and and I showed it up to the

2945

02:24:54,349 --> 02:24:51,989

camera and everybody said it was too

2946

02:24:56,630 --> 02:24:54,359

fast I just wanted everybody to see that

2947

02:25:01,429 --> 02:24:56,640

I wrote down one of my future questions

2948

02:25:03,649 --> 02:25:01,439

for Randall was plankton was gonna go

2949

02:25:05,240 --> 02:25:03,659

there and and he just brought it up

2950

02:25:07,280 --> 02:25:05,250

we're gonna get to plankton after the

2951
02:25:09,080 --> 02:25:07,290
break we're gonna go to some overtime

2952
02:25:11,210 --> 02:25:09,090
tonight Randall you don't have a choice

2953
02:25:14,000 --> 02:25:11,220
right in the middle of this we're in the

2954
02:25:17,090 --> 02:25:14,010
thick of it and let's go back okay do

2955
02:25:20,149 --> 02:25:17,100
you brought up these mass extinction

2956
02:25:26,479 --> 02:25:20,159
events which we've had four possibly

2957
02:25:29,689 --> 02:25:26,489
five maybe more where 75% to 90% 95% of

2958
02:25:33,349 --> 02:25:29,699
all life on Earth is is wiped out but it

2959
02:25:39,040 --> 02:25:33,359
goes against the grain of Darwinian

2960
02:25:42,309 --> 02:25:39,050
theory of evolution because the

2961
02:25:47,240 --> 02:25:42,319
replacement of those species happened

2962
02:25:49,309 --> 02:25:47,250
rapidly across the board of thousands

2963
02:25:51,760 --> 02:25:49,319

and thousands and thousands of species

2964

02:25:55,370 --> 02:25:51,770

it seemed like each year were just

2965

02:25:59,120 --> 02:25:55,380

generated and all of those gaps that

2966

02:26:01,820 --> 02:25:59,130

were left were immediately filled and it

2967

02:26:03,830 --> 02:26:01,830

didn't allow for the the millions and

2968

02:26:06,050 --> 02:26:03,840

millions of years of evolution of

2969

02:26:10,490 --> 02:26:06,060

millions of years according to Darwin

2970

02:26:13,429 --> 02:26:10,500

didn't take place has has earth been

2971

02:26:17,530 --> 02:26:13,439

perfectly designed to just create life

2972

02:26:20,300 --> 02:26:17,540

at a rapid clip how do we explain that

2973

02:26:23,059 --> 02:26:20,310

well this is this is going to be a

2974

02:26:24,809 --> 02:26:23,069

subject for a future discussion because

2975

02:26:28,829 --> 02:26:24,819

I think it's going to be beyond

2976

02:26:32,339 --> 02:26:28,839

of tonight's talk but the same forces

2977

02:26:34,429 --> 02:26:32,349

that introduced the trigger mass

2978

02:26:36,959 --> 02:26:34,439

extinctions are also introducing

2979

02:26:38,579 --> 02:26:36,969

catalytic substances into the biosphere

2980

02:26:41,489 --> 02:26:38,589

and I think that's a very very

2981

02:26:43,919 --> 02:26:41,499

interesting and important area topic of

2982

02:26:49,409 --> 02:26:43,929

research and the idea that you would

2983

02:26:52,469 --> 02:26:49,419

have a cosmic delivery cosmic delivery

2984

02:26:56,209 --> 02:26:52,479

yes we're talking exobiology right right

2985

02:26:59,339 --> 02:26:56,219

and we see for example accelerated

2986

02:27:03,149 --> 02:26:59,349

evolution in the aftermath of the 1908

2987

02:27:05,969 --> 02:27:03,159

Siberian event as a microcosmic example

2988

02:27:08,129 --> 02:27:05,979

I would suggest the platinum group

2989

02:27:11,279 --> 02:27:08,139

metals have very interesting properties

2990

02:27:14,429 --> 02:27:11,289

and we know that asteroids and

2991

02:27:17,119 --> 02:27:14,439

meteorites and entities from space are

2992

02:27:21,449 --> 02:27:17,129

loaded with the platinum group metals

2993

02:27:23,039 --> 02:27:21,459

those metals are known catalysts what

2994

02:27:25,129 --> 02:27:23,049

happens when they're introduced into the

2995

02:27:27,479 --> 02:27:25,139

biosphere I think is going to be a very

2996

02:27:30,119 --> 02:27:27,489

interesting and important area of

2997

02:27:31,529 --> 02:27:30,129

research in the next decade or two what

2998

02:27:34,289 --> 02:27:31,539

we're already learning is very

2999

02:27:36,599 --> 02:27:34,299

suggestive and so I suspect that we

3000

02:27:39,419 --> 02:27:36,609

might discover that the same agencies

3001
02:27:42,839 --> 02:27:39,429
that can trigger a mass extinction event

3002
02:27:47,479 --> 02:27:42,849
also may be introducing accelerants

3003
02:27:51,329 --> 02:27:47,489
catalytic accelerants into the system we

3004
02:27:53,339 --> 02:27:51,339
discovered last year a meteorites I

3005
02:27:55,049 --> 02:27:53,349
spoke about it at length here on this

3006
02:27:57,809 --> 02:27:55,059
program you may have read about it but

3007
02:28:01,619 --> 02:27:57,819
they discovered a meteorite that was

3008
02:28:07,159 --> 02:28:01,629
covered and filled with all of the basic

3009
02:28:10,619 --> 02:28:07,169
sugars and amino acids that make up RNA

3010
02:28:13,229 --> 02:28:10,629
this is like hold on a minute here pump

3011
02:28:19,349 --> 02:28:13,239
the brakes on this truck

3012
02:28:21,419 --> 02:28:19,359
what are you suggesting here RNA is as

3013
02:28:25,559 --> 02:28:21,429

part of the universe it's just floating

3014

02:28:29,249 --> 02:28:25,569

around it's so funny out how many people

3015

02:28:30,809 --> 02:28:29,259

will fight this idea but yet when it's

3016

02:28:33,449 --> 02:28:30,819

discovered is one of the most

3017

02:28:35,669 --> 02:28:33,459

significant statements that any could

3018

02:28:37,301 --> 02:28:35,679

anybody could make about life on Earth

3019

02:28:41,110 --> 02:28:37,311

and humanity and why

3020

02:28:43,451 --> 02:28:41,120

throughout the universe right mhm I

3021

02:28:46,360 --> 02:28:43,461

think that what we're discovering is

3022

02:28:50,140 --> 02:28:46,370

that we're the precursors of organic

3023

02:28:53,650 --> 02:28:50,150

life are very widespread what they need

3024

02:28:56,650 --> 02:28:53,660

though is a proper environmental matrix

3025

02:29:01,060 --> 02:28:56,660

to actually begin the process the

3026

02:29:03,100 --> 02:29:01,070

evolutionary process so you know we we

3027

02:29:06,671 --> 02:29:03,110

inhabit a planet that's very unique in

3028

02:29:09,220 --> 02:29:06,681

its own way and if you were to change

3029

02:29:13,180 --> 02:29:09,230

the parameters of our planetary system

3030

02:29:16,541 --> 02:29:13,190

even in the slightest the possibility of

3031

02:29:19,121 --> 02:29:16,551

higher life basically disappears you

3032

02:29:22,930 --> 02:29:19,131

know there's a whole array of things

3033

02:29:25,961 --> 02:29:22,940

that have to be precisely balanced in

3034

02:29:28,871 --> 02:29:25,971

order for for us to think about if there

3035

02:29:30,970 --> 02:29:28,881

was no moon if there was no moon there

3036

02:29:33,371 --> 02:29:30,980

would be no tides if there was no tides

3037

02:29:35,921 --> 02:29:33,381

there would be no intertidal zone if

3038

02:29:38,741 --> 02:29:35,931

there was no intertidal zone you could

3039

02:29:42,131 --> 02:29:38,751

not have transitional species between a

3040

02:29:44,890 --> 02:29:42,141

marine existence and a terrestrial

3041

02:29:47,741 --> 02:29:44,900

existence that's just one example right

3042

02:29:50,591 --> 02:29:47,751

if the outer planets were if their

3043

02:29:53,440 --> 02:29:50,601

masses and their distances were adjusted

3044

02:29:57,281 --> 02:29:53,450

even a small amount what would happen

3045

02:30:00,430 --> 02:29:57,291

then is the ability of transferring

3046

02:30:02,860 --> 02:30:00,440

comets from the deep the zones in deep

3047

02:30:05,741 --> 02:30:02,870

space like the Kuiper disc mm-hmm would

3048

02:30:08,020 --> 02:30:05,751

disappear because as it turns out the

3049

02:30:11,291 --> 02:30:08,030

planets happen to be just precisely

3050

02:30:13,781 --> 02:30:11,301

arranged with the precise distances and

3051
02:30:16,360 --> 02:30:13,791
precise masses that would be needed in

3052
02:30:18,850 --> 02:30:16,370
order to create a as it's been called a

3053
02:30:21,940 --> 02:30:18,860
cosmic bucket brigade that could now

3054
02:30:25,270 --> 02:30:21,950
begin to deliver comets from the outer

3055
02:30:28,001 --> 02:30:25,280
zones into the inner solar system where

3056
02:30:31,060 --> 02:30:28,011
they could now begin to disintegrate and

3057
02:30:34,661 --> 02:30:31,070
and pollinate if you will the inner

3058
02:30:37,451 --> 02:30:34,671
solar system with their exotic materials

3059
02:30:40,570 --> 02:30:37,461
that they're carrying in their frozen

3060
02:30:42,041 --> 02:30:40,580
deep frozen matrix yeah and I find it

3061
02:30:44,921 --> 02:30:42,051
interesting we got to take a break right

3062
02:30:47,291 --> 02:30:44,931
here but I find it interesting how we

3063
02:30:49,570 --> 02:30:47,301

thought that our solar system was was

3064

02:30:50,410 --> 02:30:49,580

unique with its moons and the amount of

3065

02:30:52,510 --> 02:30:50,420

planets

3066

02:30:55,510 --> 02:30:52,520

we're now we're discovering solar

3067

02:30:58,090 --> 02:30:55,520

systems are just part of the evolution

3068

02:31:00,550 --> 02:30:58,100

of the universe it is the construction

3069

02:31:03,760 --> 02:31:00,560

you have a star you have the dust that

3070

02:31:06,370 --> 02:31:03,770

is around it and the gravity will build

3071

02:31:09,099 --> 02:31:06,380

those planets at those orbits anyway

3072

02:31:09,910 --> 02:31:09,109

it's just the way that it is it's

3073

02:31:11,679 --> 02:31:09,920

perfect

3074

02:31:14,800 --> 02:31:11,689

we'll be right back our guest tonight

3075

02:31:18,519 --> 02:31:14,810

Randall Carlson I've got the question of

3076

02:31:20,469 --> 02:31:18,529

the night staged what is it you're gonna

3077

02:31:23,740 --> 02:31:20,479

find out we come back stay with us

3078

02:31:30,439 --> 02:31:23,750

fade to black Randall Carlson more after

3079

02:31:39,059 --> 02:31:33,599

and you are listening to my boy Jimmy

3080

02:31:42,300 --> 02:31:39,069

Church on Jimmy Church radio.com this my

3081

02:31:50,219 --> 02:31:42,310

popular opinion reading a book will not

3082

02:31:52,800 --> 02:31:50,229

make you smarter this is Jimmy Church of

3083

02:31:55,949 --> 02:31:52,810

fade to black and I take life change tea

3084

02:31:58,979 --> 02:31:55,959

supplements every single day it's what I

3085

02:32:04,619 --> 02:31:58,989

do click on their banner ad Jimmy Church

3086

02:32:06,809 --> 02:32:04,629

radio calm when you take the beams from

3087

02:32:09,359 --> 02:32:06,819

Central America with dashes of

3088

02:32:11,789 --> 02:32:09,369

Indonesian and African mixed in and then

3089

02:32:14,639 --> 02:32:11,799

roasted to the dark side of fade to

3090

02:32:17,789 --> 02:32:14,649

black you create the ultimate brew of

3091

02:32:21,539 --> 02:32:17,799

Fringe introducing the fade to black

3092

02:32:24,149 --> 02:32:21,549

blend from River moon coffee yes River

3093

02:32:25,769 --> 02:32:24,159

moons darkest customized roast was

3094

02:32:29,429 --> 02:32:25,779

created for the love of

3095

02:32:31,949 --> 02:32:29,439

fade to black the alchemy of masterful

3096

02:32:35,219 --> 02:32:31,959

roasting and smoking the beans is in

3097

02:32:39,420 --> 02:32:35,229

every sip of this full-bodied dark Java

3098

02:32:41,729 --> 02:32:39,430

I need my coffee dog deep with distinct

3099

02:32:44,459 --> 02:32:41,739

bittersweet chocolate highlights just

3100

02:32:46,889 --> 02:32:44,469

like the bunker leaning further into the

3101

02:32:50,159 --> 02:32:46,899

darkness of the roast is fade to black

3102

02:32:51,809 --> 02:32:50,169

blend from river moon coffee just click

3103

02:32:55,170 --> 02:32:51,819

on the banner at Jimmy Church radio.com

3104

02:33:01,841 --> 02:32:55,180

and use the promo code F to be blend for

3105

02:33:05,230 --> 02:33:03,730

hello my name is Billy Carson and I'm a

3106

02:33:07,751 --> 02:33:05,240

best-selling author and the founder of

3107

02:33:09,551 --> 02:33:07,761

forbidden knowledge TV together with my

3108

02:33:11,830 --> 02:33:09,561

team we have built a all new conscious

3109

02:33:13,690 --> 02:33:11,840

pre-made TV platform designed with every

3110

02:33:15,310 --> 02:33:13,700

family member in mind if you have ever

3111

02:33:16,690 --> 02:33:15,320

wanted to travel the world and attend

3112

02:33:18,551 --> 02:33:16,700

lectures and workshops from your

3113

02:33:19,330 --> 02:33:18,561

favorite speakers we were able to look

3114

02:33:21,970 --> 02:33:19,340

no further

3115

02:33:23,950 --> 02:33:21,980

forbidden knowledge dot TV there are

3116

02:33:25,810 --> 02:33:23,960

dozens of workshops and lectures from

3117

02:33:27,881 --> 02:33:25,820

speakers we know and love we have also

3118

02:33:29,740 --> 02:33:27,891

included amazing categories to ensure

3119

02:33:32,200 --> 02:33:29,750

that your consciousness is entertained

3120

02:33:33,730 --> 02:33:32,210

and elevating on a daily basis amazing

3121

02:33:35,940 --> 02:33:33,740

interviews ancient history

3122

02:33:38,680 --> 02:33:35,950

ascension knowledge wisdom teachings

3123

02:33:40,780 --> 02:33:38,690

documentaries conspiracies mysteries

3124

02:33:43,301 --> 02:33:40,790

health and fitness conscious cooking

3125

02:33:45,100 --> 02:33:43,311

meditations finance yoga and so much

3126

02:33:47,350 --> 02:33:45,110

more to start your free trial on any

3127

02:33:48,580 --> 02:33:47,360

mobile device or computer surf they're

3128

02:34:00,490 --> 02:33:48,590

forbidden knowledge

3129

02:34:03,131 --> 02:34:00,500

today are you intrigued by paranormal

3130

02:34:06,791 --> 02:34:03,141

talk radio you love the new paranormal

3131

02:34:08,530 --> 02:34:06,801

radio app from torque stream live you'll

3132

02:34:11,680 --> 02:34:08,540

find a great selection of talk shows

3133

02:34:14,381 --> 02:34:11,690

covering UFOs ghosts strange phenomena

3134

02:34:16,660 --> 02:34:14,391

and much more download the paranormal

3135

02:34:18,310 --> 02:34:16,670

radio app now and start listening to the

3136

02:34:20,291 --> 02:34:18,320

very best in paranormal talk

3137

02:34:22,091 --> 02:34:20,301

entertainment including the network

3138

02:34:25,001 --> 02:34:22,101

you're listening to right now the

3139

02:34:34,531 --> 02:34:25,011

paranormal radio app free in Google Play

3140

02:34:46,910 --> 02:34:38,230

it's not a lifestyle we chose we were

3141

02:34:46,920 --> 02:35:04,800

this is KJ CR Jimmy's hurts radio Dada

3142

02:35:10,749 --> 02:35:08,319

welcome back is overtime with Randall

3143

02:35:13,239 --> 02:35:10,759

Carlson I want to thank Randall in

3144

02:35:16,809 --> 02:35:13,249

advance for allowing me to set him up

3145

02:35:26,469 --> 02:35:16,819

for overtime tonight Randall you saw it

3146

02:35:30,300 --> 02:35:26,479

coming though didn't you hear the I

3147

02:35:33,879 --> 02:35:30,310

don't want to let this go if that we

3148

02:35:35,709 --> 02:35:33,889

until very recently we thought that we

3149

02:35:37,689 --> 02:35:35,719

were very unique that the solar system

3150

02:35:40,300 --> 02:35:37,699

was a unique and we're finding out that

3151

02:35:44,019 --> 02:35:40,310

it's actually the norm throughout the

3152

02:35:48,489 --> 02:35:44,029

universe multiple planets around their

3153

02:35:52,089 --> 02:35:48,499

Sun is is just a natural thing to have

3154

02:35:54,459 --> 02:35:52,099

happened since the Big Bang and we may

3155

02:35:58,089 --> 02:35:54,469

not be as unique as we we thought for

3156

02:36:01,179 --> 02:35:58,099

all of these years well we may not but

3157

02:36:02,800 --> 02:36:01,189

on the other hand we may be because to

3158

02:36:05,109 --> 02:36:02,810

the extent that I have been able to

3159

02:36:06,969 --> 02:36:05,119

study and I guess I need to be about

3160

02:36:08,919 --> 02:36:06,979

four people so that I can study

3161

02:36:09,789 --> 02:36:08,929

everything that I would like to study in

3162

02:36:13,749 --> 02:36:09,799

this lifetime

3163

02:36:16,779 --> 02:36:13,759

but what I'm seeing is that there are

3164

02:36:19,929 --> 02:36:16,789

solar systems with planets yet the

3165

02:36:22,059 --> 02:36:19,939

planets for whatever reason would not

3166

02:36:24,159 --> 02:36:22,069

necessarily be suitable habitats for

3167

02:36:26,999 --> 02:36:24,169

higher life for example the more and

3168

02:36:30,550 --> 02:36:27,009

more recent ones had a large

3169

02:36:33,999 --> 02:36:30,560

jupiter-sized planet that was relatively

3170

02:36:36,760 --> 02:36:34,009

close to an Earth's Sun distance one

3171

02:36:38,589 --> 02:36:36,770

astronomical unit but clearly a planet

3172

02:36:42,099 --> 02:36:38,599

of that size the only thing that might

3173

02:36:44,199 --> 02:36:42,109

live on it would be you know slugs with

3174

02:36:46,929 --> 02:36:44,209

that much gravity when you begin to look

3175

02:36:49,569 --> 02:36:46,939

at the earth systems what you realize is

3176
02:36:52,749 --> 02:36:49,579
that there's a very very narrow range of

3177
02:36:55,809 --> 02:36:52,759
parameters you know if you increase the

3178
02:36:59,229 --> 02:36:55,819
the mass of the earth too much well then

3179
02:37:01,209 --> 02:36:59,239
you know again you have the difficulty

3180
02:37:04,119 --> 02:37:01,219
to get to higher life-forms you might

3181
02:37:06,249 --> 02:37:04,129
have life you might have you know

3182
02:37:08,739 --> 02:37:06,259
microbial life no problem

3183
02:37:11,679 --> 02:37:08,749
but for the evolution of higher species

3184
02:37:15,159 --> 02:37:11,689
you know if you go if you double or

3185
02:37:18,040 --> 02:37:15,169
triple the gravity of Earth that becomes

3186
02:37:20,170 --> 02:37:18,050
very problematic likewise

3187
02:37:23,260 --> 02:37:20,180
if the earth was say a little bit closer

3188
02:37:25,359 --> 02:37:23,270

to the Sun it would probably get too

3189

02:37:28,990 --> 02:37:25,369

warm if it was a little bit farther away

3190

02:37:31,420 --> 02:37:29,000

it we'd go into a basically a permanent

3191

02:37:33,370 --> 02:37:31,430

global Ice Age well didn't you know just

3192

02:37:36,490 --> 02:37:33,380

like you know there might be life under

3193

02:37:38,710 --> 02:37:36,500

the ice on Europa but we're not seeing

3194

02:37:40,840 --> 02:37:38,720

higher life we're not you know seeing

3195

02:37:44,880 --> 02:37:40,850

life that can actually come out and and

3196

02:37:48,370 --> 02:37:44,890

and and you know build a civilization

3197

02:37:50,500 --> 02:37:48,380

what I think we're seeing actually what

3198

02:37:52,349 --> 02:37:50,510

I think we're learning from these other

3199

02:37:56,319 --> 02:37:52,359

worlds that we're discovering is that

3200

02:38:00,069 --> 02:37:56,329

the likelihood of those worlds being

3201

02:38:04,420 --> 02:38:00,079

inhabited with civilizations at this

3202

02:38:06,370 --> 02:38:04,430

point is probably unlikely because and I

3203

02:38:08,620 --> 02:38:06,380

mentioned earlier just the very fact of

3204

02:38:10,540 --> 02:38:08,630

the presence of a moon you know I

3205

02:38:12,069 --> 02:38:10,550

mentioned the tides well if you didn't

3206

02:38:14,500 --> 02:38:12,079

have them you know the moon acts like a

3207

02:38:17,649 --> 02:38:14,510

flywheel on the earth without the moon

3208

02:38:20,290 --> 02:38:17,659

the Earth's axial motions would be way

3209

02:38:21,969 --> 02:38:20,300

more chaotic than they are now and then

3210

02:38:24,219 --> 02:38:21,979

you know which is you know sort of

3211

02:38:27,760 --> 02:38:24,229

germane to the topic of conversation

3212

02:38:30,069 --> 02:38:27,770

tonight is the the increase in in chaos

3213

02:38:31,960 --> 02:38:30,079

and randomness brought about by entropy

3214

02:38:35,109 --> 02:38:31,970

but one of the things that the moon does

3215

02:38:38,679 --> 02:38:35,119

is actually helps as a an entropy

3216

02:38:42,609 --> 02:38:38,689

reducer by helping to stabilize the

3217

02:38:46,149 --> 02:38:42,619

earth into a relatively constant 23 and

3218

02:38:49,420 --> 02:38:46,159

1/2 degrees tilt now if you didn't have

3219

02:38:50,679 --> 02:38:49,430

to tilt can you you know when you start

3220

02:38:52,960 --> 02:38:50,689

imagining what does that mean if you

3221

02:38:55,149 --> 02:38:52,970

didn't have to tilt well the season or

3222

02:38:57,880 --> 02:38:55,159

no seasons are totally real yeah there

3223

02:39:00,580 --> 02:38:57,890

be no seasons we dry one the latitudinal

3224

02:39:03,460 --> 02:39:00,590

belts would be definitely become too hot

3225

02:39:06,429 --> 02:39:03,470

to inhabit the boat poles would become

3226
02:39:11,349 --> 02:39:06,439
permanently ice encrusted and you would

3227
02:39:14,679 --> 02:39:11,359
have a mid a mid range of sort of maybe

3228
02:39:17,260 --> 02:39:14,689
around 40 to 45 degrees latitudinal belt

3229
02:39:21,160 --> 02:39:17,270
where you know life could actually

3230
02:39:23,760 --> 02:39:21,170
thrive but the problem is is that you

3231
02:39:26,080 --> 02:39:23,770
know with the change of the parameters

3232
02:39:28,870 --> 02:39:26,090
we'd probably introduce all kinds of

3233
02:39:31,170 --> 02:39:28,880
other problems you know ocean

3234
02:39:35,490 --> 02:39:31,180
circulation for example would be

3235
02:39:38,340 --> 02:39:35,500
pletely different so the point is is

3236
02:39:41,269 --> 02:39:38,350
that that the earth's tilt on its axis

3237
02:39:45,420 --> 02:39:41,279
plays a very important role in

3238
02:39:47,689 --> 02:39:45,430

establishing the the the range of

3239

02:39:50,280 --> 02:39:47,699

environmental possibilities

3240

02:39:53,010 --> 02:39:50,290

interestingly if you look at that range

3241

02:39:55,950 --> 02:39:53,020

from the the higher end to the lower end

3242

02:39:57,719 --> 02:39:55,960

what you see is that the higher end

3243

02:40:01,200 --> 02:39:57,729

you're getting just to them to that

3244

02:40:03,210 --> 02:40:01,210

stage where it's really just too hot for

3245

02:40:05,130 --> 02:40:03,220

life to thrive and even humans to thrive

3246

02:40:08,969 --> 02:40:05,140

you know when you start getting up to

3247

02:40:12,030 --> 02:40:08,979

120 130 degrees which is which is you

3248

02:40:15,179 --> 02:40:12,040

know documented temperatures on earth or

3249

02:40:17,400 --> 02:40:15,189

you get to a hundred below degrees now

3250

02:40:19,769 --> 02:40:17,410

those that represent the extremes when

3251

02:40:23,610 --> 02:40:19,779

we get to those extremes what we're

3252

02:40:25,740 --> 02:40:23,620

finding is survival the complexities of

3253

02:40:30,450 --> 02:40:25,750

survival increased by orders of

3254

02:40:33,570 --> 02:40:30,460

magnitude right so right now it's almost

3255

02:40:36,269 --> 02:40:33,580

as if our planet is tuned to not exceed

3256

02:40:38,550 --> 02:40:36,279

that range because if it exceeded that

3257

02:40:42,750 --> 02:40:38,560

range for example during the Permian

3258

02:40:47,580 --> 02:40:42,760

Triassic in either way that would be

3259

02:40:49,320 --> 02:40:47,590

very problematic for life and so we're

3260

02:40:51,540 --> 02:40:49,330

basically getting back to this idea of

3261

02:40:54,000 --> 02:40:51,550

these huge into huge energy incursions

3262

02:40:56,790 --> 02:40:54,010

into the system that seemed to disrupt

3263

02:40:59,400 --> 02:40:56,800

it and be stable it destabilize it for

3264

02:41:02,370 --> 02:40:59,410

relatively short periods of time but

3265

02:41:05,550 --> 02:41:02,380

then the planet almost it has this

3266

02:41:07,830 --> 02:41:05,560

almost like built-in factor where it's

3267

02:41:10,050 --> 02:41:07,840

trying to return the stability and

3268

02:41:12,599 --> 02:41:10,060

that's what it does you perturb the

3269

02:41:15,929 --> 02:41:12,609

system it oscillates for a while about

3270

02:41:19,320 --> 02:41:15,939

this mean value and then it it strives

3271

02:41:21,540 --> 02:41:19,330

to return to that stability and because

3272

02:41:24,269 --> 02:41:21,550

it does that we're still here after five

3273

02:41:28,559 --> 02:41:24,279

hundred and some million years we being

3274

02:41:32,219 --> 02:41:28,569

life right so but what happens is when

3275

02:41:35,340 --> 02:41:32,229

you have an asteroid impact or I perhaps

3276

02:41:38,040 --> 02:41:35,350

believe that you know great solar storms

3277

02:41:39,750 --> 02:41:38,050

these are forces that can perturb the

3278

02:41:43,050 --> 02:41:39,760

stability of the system and that's when

3279

02:41:44,910 --> 02:41:43,060

we see that the real problems occur now

3280

02:41:46,740 --> 02:41:44,920

when we look at other planets

3281

02:41:49,980 --> 02:41:46,750

I don't know I don't know I'm still

3282

02:41:51,660 --> 02:41:49,990

waiting to see oh hey look there is a

3283

02:41:53,219 --> 02:41:51,670

planet that's about the size of the

3284

02:41:57,150 --> 02:41:53,229

earth it's about the right distance from

3285

02:42:00,270 --> 02:41:57,160

its star the radiative output falling

3286

02:42:02,640 --> 02:42:00,280

upon you know an atmosphere on the

3287

02:42:05,370 --> 02:42:02,650

planets going to be about the same 1,300

3288

02:42:07,500 --> 02:42:05,380

and some watts per square meter that we

3289

02:42:11,370 --> 02:42:07,510

have on earth it's got a moon to

3290

02:42:13,860 --> 02:42:11,380

stabilize erratic motions we see all of

3291

02:42:16,500 --> 02:42:13,870

these things that could possibly make it

3292

02:42:18,480 --> 02:42:16,510

earth-like there's a good candidate so

3293

02:42:21,000 --> 02:42:18,490

far we haven't seen that though okay

3294

02:42:25,679 --> 02:42:21,010

well a lot of different kinds of planets

3295

02:42:27,770 --> 02:42:25,689

in a diverse array of solar systems but

3296

02:42:31,380 --> 02:42:27,780

we haven't really seen anything where

3297

02:42:34,350 --> 02:42:31,390

the parameters are so similar to the

3298

02:42:36,660 --> 02:42:34,360

earth that it's likely that there would

3299

02:42:39,300 --> 02:42:36,670

be life there like we know it on earth

3300

02:42:44,550 --> 02:42:39,310

except for the announcement that I made

3301

02:42:46,230 --> 02:42:44,560

earlier tonight which is here we go

3302

02:42:48,420 --> 02:42:46,240

astronomers have discovered a

3303

02:42:52,080 --> 02:42:48,430

potentially habitable earth-sized

3304

02:42:55,770 --> 02:42:52,090

exoplanet 300 light years away out of

3305

02:42:58,950 --> 02:42:55,780

the 2681 exoplanets spotted by NASA's

3306

02:43:02,250 --> 02:42:58,960

Kepler space telescope between 2009 and

3307

02:43:04,080 --> 02:43:02,260

2008 een this one of the is the most

3308

02:43:07,350 --> 02:43:04,090

similar in size and potential

3309

02:43:12,390 --> 02:43:07,360

temperature to our own planet the planet

3310

02:43:15,750 --> 02:43:12,400

has been dubbed Kepler 1649 see it's 1.0

3311

02:43:19,410 --> 02:43:15,760

six times larger than Earth same size as

3312

02:43:21,840 --> 02:43:19,420

Earth receives about 75% the amount of

3313

02:43:24,120 --> 02:43:21,850

light that Earth gets from our Sun and

3314

02:43:26,880 --> 02:43:24,130

it suggests that the surface temperature

3315

02:43:30,000 --> 02:43:26,890

of this exoplanet could be similar to

3316

02:43:33,060 --> 02:43:30,010

our own earth what researchers don't

3317

02:43:35,610 --> 02:43:33,070

know at this point is its atmosphere and

3318

02:43:38,250 --> 02:43:35,620

they are looking at that in their we now

3319

02:43:39,260 --> 02:43:38,260

see it's a numbers game though Randall

3320

02:43:42,300 --> 02:43:39,270

it's a numbers game

3321

02:43:46,020 --> 02:43:42,310

right now we're looking at 20 billion

3322

02:43:49,950 --> 02:43:46,030

rocky earth-like planets in our own

3323

02:43:51,840 --> 02:43:49,960

Milky Way and now how many of those are

3324

02:43:53,810 --> 02:43:51,850

in the Goldilocks zone how many of those

3325

02:43:56,390 --> 02:43:53,820

have water

3326

02:43:58,640 --> 02:43:56,400

carbon-based oxygen atmosphere with

3327

02:44:01,881 --> 02:43:58,650

nitrogen and we don't know these things

3328

02:44:05,600 --> 02:44:01,891

yet but it's a numbers game and it is

3329

02:44:08,780 --> 02:44:05,610

certainly suggesting the opposite of

3330

02:44:12,261 --> 02:44:08,790

what we knew 50 60 70 or a hundred years

3331

02:44:14,450 --> 02:44:12,271

ago which is is there any more planets

3332

02:44:16,220 --> 02:44:14,460

out there you know that's where we wrote

3333

02:44:18,980 --> 02:44:16,230

today we know it's not that kind of

3334

02:44:22,220 --> 02:44:18,990

party okay here's the question of the

3335

02:44:32,211 --> 02:44:22,230

night are you ready for the beard of

3336

02:44:33,310 --> 02:44:32,221

knowledge okay I'm sitting back here we

3337

02:44:42,921 --> 02:44:33,320

go

3338

02:44:46,551 --> 02:44:42,931

plankton flora or fauna plankton flora

3339

02:44:50,421 --> 02:44:46,561

or fauna I stumped the beard of

3340

02:44:50,870 --> 02:44:50,431

knowledge I know right that's a tough

3341

02:44:59,200 --> 02:44:50,880

one

3342

02:45:04,370 --> 02:44:59,210

you may have you may have stumped me

3343

02:45:10,370 --> 02:45:04,380

what do I do know the plankton is a

3344

02:45:14,720 --> 02:45:10,380

really broad diversity of organisms I do

3345

02:45:16,251 --> 02:45:14,730

know that and you know that they're at

3346

02:45:21,020 --> 02:45:16,261

the bottom of the food chain the marine

3347

02:45:24,501 --> 02:45:21,030

food chain what else no I'm having to

3348

02:45:27,950 --> 02:45:24,511

dig back into the archives okay is a

3349

02:45:30,740 --> 02:45:27,960

bacterial flora or fauna because

3350

02:45:34,430 --> 02:45:30,750

bacterial plankton can actually be

3351

02:45:39,650 --> 02:45:34,440

bacteria it can be allergy now algae I'm

3352

02:45:42,020 --> 02:45:39,660

gonna say is flora you can't you can't

3353

02:45:45,440 --> 02:45:42,030

Google it don't do that to me Randall

3354

02:45:49,700 --> 02:45:45,450

see this is the thing when we start to

3355

02:45:52,131 --> 02:45:49,710

discuss things like bacteria and and

3356

02:45:53,570 --> 02:45:52,141

microbial life and certainly you know

3357

02:45:57,291 --> 02:45:53,580

going up the food chain a couple of

3358

02:46:00,011 --> 02:45:57,301

steps into plankton is when when do you

3359

02:46:04,461 --> 02:46:00,021

think consciousness comes into play you

3360

02:46:05,109 --> 02:46:04,471

know way when when does that transition

3361

02:46:07,329 --> 02:46:05,119

happen

3362

02:46:10,149 --> 02:46:07,339

I bring this up all the time and the

3363

02:46:13,239 --> 02:46:10,159

reason why I do particles and atoms they

3364

02:46:15,579 --> 02:46:13,249

fascinate me the the particles that

3365

02:46:18,219 --> 02:46:15,589

combine throughout the universe to

3366

02:46:21,729 --> 02:46:18,229

create the basics of life you know

3367

02:46:25,959 --> 02:46:21,739

through not only at the atomic level the

3368

02:46:28,599 --> 02:46:25,969

molecular level up to amino acids and

3369

02:46:30,789 --> 02:46:28,609

and the basics of everything but there

3370

02:46:33,399 --> 02:46:30,799

is a transition that happens at one

3371

02:46:35,800 --> 02:46:33,409

point because that asteroid that you're

3372

02:46:40,840 --> 02:46:35,810

talking about is made up of the same

3373

02:46:44,439 --> 02:46:40,850

matter that you are right and so at what

3374

02:46:47,619 --> 02:46:44,449

point do particles combine and and

3375

02:46:51,579 --> 02:46:47,629

become sentient and conscious yeah I

3376

02:46:53,859 --> 02:46:51,589

know you've thought about it yeah it's

3377

02:46:56,019 --> 02:46:53,869

only because I have thought about it and

3378

02:47:00,699 --> 02:46:56,029

frustratingly have not really come to

3379

02:47:02,829 --> 02:47:00,709

any any conclusions about it I don't

3380

02:47:04,419 --> 02:47:02,839

know I guess dolphins are in the ocean

3381

02:47:08,139 --> 02:47:04,429

and they have a high degree of

3382

02:47:09,879 --> 02:47:08,149

consciousness I mean all life I'm

3383

02:47:12,189 --> 02:47:09,889

assuming has some degree of

3384

02:47:16,659 --> 02:47:12,199

consciousness I mean certainly my cat

3385

02:47:18,340 --> 02:47:16,669

does you know Langton I know quite a

3386

02:47:21,369 --> 02:47:18,350

plankton has to have some kind of

3387

02:47:22,929 --> 02:47:21,379

consciousness right I know the

3388

02:47:24,699 --> 02:47:22,939

cockroaches that try to get into my

3389

02:47:26,229 --> 02:47:24,709

kitchen have consciousness because I

3390

02:47:28,119 --> 02:47:26,239

walk in there and turned the light on

3391

02:47:32,199 --> 02:47:28,129

they're hurrying their ass up to get out

3392

02:47:36,249 --> 02:47:32,209

of there so but at what point do you get

3393

02:47:39,219 --> 02:47:36,259

sentience what point do you become

3394

02:47:40,989 --> 02:47:39,229

self-aware I you know I don't know this

3395

02:47:44,919 --> 02:47:40,999

was a sort of a metaphysical question

3396

02:47:47,639 --> 02:47:44,929

that I you know delved into once upon a

3397

02:47:50,739 --> 02:47:47,649

time in my life back when I was studying

3398

02:47:54,939 --> 02:47:50,749

various religious philosophies and

3399

02:47:58,139 --> 02:47:54,949

psycho analytics and yoga and meditation

3400

02:48:01,510 --> 02:47:58,149

and things and I never came to any

3401

02:48:04,059 --> 02:48:01,520

conclusions on that I'm still as up in

3402

02:48:07,719 --> 02:48:04,069

the air now as I was that then 40 years

3403

02:48:11,079 --> 02:48:07,729

ago so yeah it's fascinating yeah well

3404

02:48:13,719 --> 02:48:11,089

okay finish your thought well I'm just

3405

02:48:15,819 --> 02:48:13,729

saying that you know yeah it but at some

3406

02:48:17,631 --> 02:48:15,829

point it's I kind of feel like I've come

3407

02:48:19,491 --> 02:48:17,641

full circle in some ways

3408

02:48:22,491 --> 02:48:19,501

and that's a question I'd like to come

3409

02:48:25,551 --> 02:48:22,501

back to because you know I'm looking now

3410

02:48:26,511 --> 02:48:25,561

at issues you know really what is

3411

02:48:32,390 --> 02:48:26,521

consciousness

3412

02:48:35,031 --> 02:48:32,400

or independent of the body right what

3413

02:48:37,400 --> 02:48:35,041

happens when when the body we slough off

3414

02:48:39,861 --> 02:48:37,410

the body I mean is there something that

3415

02:48:42,470 --> 02:48:39,871

goes on what is the connection between

3416

02:48:45,440 --> 02:48:42,480

the traditional concept of soul and

3417

02:48:47,900 --> 02:48:45,450

consciousness I don't know the answers

3418

02:48:49,911 --> 02:48:47,910

to these questions Jimmy I've been

3419

02:48:55,281 --> 02:48:49,921

distracted by trying to figure out how

3420

02:48:57,501 --> 02:48:55,291

to save civilization I kind of gotten

3421

02:49:00,831 --> 02:48:57,511

away from those deep epistemological

3422

02:49:04,701 --> 02:49:00,841

questions that used to occupy a lot of

3423

02:49:07,640 --> 02:49:04,711

my time and the reason why I think today

3424

02:49:10,461 --> 02:49:07,650

I'm more focused on it then than I have

3425

02:49:15,461 --> 02:49:10,471

been in the past because I discuss it

3426

02:49:19,821 --> 02:49:15,471

often but today certainly over the last

3427

02:49:22,551 --> 02:49:19,831

let's say four years since 2016 this

3428

02:49:26,060 --> 02:49:22,561

planet has seen darkness and pressure

3429

02:49:29,841 --> 02:49:26,070

and fake news and craziness around this

3430

02:49:33,381 --> 02:49:29,851

planet that has affected our

3431

02:49:36,621 --> 02:49:33,391

consciousness our emotions which affects

3432

02:49:38,871 --> 02:49:36,631

our health and our well-being and just

3433

02:49:43,031 --> 02:49:38,881

when I thought that it couldn't get any

3434

02:49:46,071 --> 02:49:43,041

crazier the the entire planet is

3435

02:49:49,281 --> 02:49:46,081

emotionally wrapped up in in this

3436

02:49:51,291 --> 02:49:49,291

darkness and it affected everybody at

3437

02:49:54,741 --> 02:49:51,301

the same time all consciousness is

3438

02:50:00,440 --> 02:49:54,751

interconnected and I believe that it is

3439

02:50:04,011 --> 02:50:00,450

I really do and today we have been

3440

02:50:06,501 --> 02:50:04,021

forced into wondering what is going on

3441

02:50:09,230 --> 02:50:06,511

on a global scale with with our brothers

3442

02:50:11,841 --> 02:50:09,240

and sisters on this planet and I think

3443

02:50:14,031 --> 02:50:11,851

that consciousness now has never been

3444

02:50:16,011 --> 02:50:14,041

more important and what is actually

3445

02:50:18,650 --> 02:50:16,021

going on and it's a good point for us to

3446

02:50:21,411 --> 02:50:18,660

just stop and take a deep breath and

3447

02:50:24,051 --> 02:50:21,421

collect where we are and where we need

3448

02:50:25,730 --> 02:50:24,061

to go and how to move forward just like

3449

02:50:28,190 --> 02:50:25,740

you're saying how do we save this planet

3450

02:50:30,620 --> 02:50:28,200

right mm-hm

3451

02:50:32,990 --> 02:50:30,630

and you know

3452

02:50:36,261 --> 02:50:33,000

in January February the Department of

3453

02:50:39,650 --> 02:50:36,271

Defense was planning huge wargames right

3454

02:50:43,131 --> 02:50:39,660

on the border of Russia Putin was

3455

02:50:45,051 --> 02:50:43,141

planning a response 18,000 that's right

3456

02:50:46,580 --> 02:50:45,061

so we're going to be transported over to

3457

02:50:49,270 --> 02:50:46,590

participate in all of that

3458

02:50:52,280 --> 02:50:49,280

hey those war games those

3459

02:50:55,850 --> 02:50:52,290

confrontational tension building war

3460

02:50:59,211 --> 02:50:55,860

games got cancelled so there's some

3461

02:51:01,761 --> 02:50:59,221

upside to this you know my thing is I've

3462

02:51:03,770 --> 02:51:01,771

been all along been go come on all you

3463

02:51:06,560 --> 02:51:03,780

war makers let's get together and

3464

02:51:09,770 --> 02:51:06,570

realize that we can take the machinery

3465

02:51:13,211 --> 02:51:09,780

of war and we can transform it we can

3466

02:51:16,461 --> 02:51:13,221

metamorphosize it into the machinery of

3467

02:51:19,970 --> 02:51:16,471

expanding into the into the cosmos and

3468

02:51:23,180 --> 02:51:19,980

we will discover there that the resource

3469

02:51:28,041 --> 02:51:23,190

base of materials raw materials and

3470

02:51:31,030 --> 02:51:28,051

energy is so inconceivably vast that we

3471

02:51:34,881 --> 02:51:31,040

wouldn't we could bypass the need for

3472

02:51:37,160 --> 02:51:34,891

conflict over resource control because

3473

02:51:38,720 --> 02:51:37,170

that's ultimately what's that yes

3474

02:51:42,801 --> 02:51:38,730

religion will drive it but ultimately

3475

02:51:46,520 --> 02:51:42,811

what is is driving conflicts Wars is

3476

02:51:48,860 --> 02:51:46,530

ultimately control of resources and when

3477

02:51:51,320 --> 02:51:48,870

we look back at the Younger Dryas in the

3478

02:51:54,591 --> 02:51:51,330

aftermath of that you know if Maria Ginn

3479

02:51:56,930 --> 02:51:54,601

butis as documented extensively in some

3480

02:51:59,240 --> 02:51:56,940

of her work is that for about three or

3481

02:52:02,900 --> 02:51:59,250

four thousand years there doesn't appear

3482

02:52:07,070 --> 02:52:02,910

to be any virtual Ino evidence of human

3483

02:52:09,970 --> 02:52:07,080

conflict you know both the tools and the

3484

02:52:13,580 --> 02:52:09,980

that were being built there created

3485

02:52:16,430 --> 02:52:13,590

appear to be not including weapons of

3486

02:52:17,530 --> 02:52:16,440

war the the communities that were being

3487

02:52:20,091 --> 02:52:17,540

formed

3488

02:52:22,400 --> 02:52:20,101

didn't have moats or in battlements

3489

02:52:25,820 --> 02:52:22,410

there were no Palisades to suggest that

3490

02:52:28,580 --> 02:52:25,830

they were fighting off an enemy and and

3491

02:52:31,041 --> 02:52:28,590

really see that makes sense because once

3492

02:52:34,700 --> 02:52:31,051

you understand that the human population

3493

02:52:37,270 --> 02:52:34,710

bottleneck in the Younger Dryas and that

3494

02:52:40,370 --> 02:52:37,280

there was a hole basically planet

3495

02:52:43,000 --> 02:52:40,380

rearranged with new habitats that were

3496

02:52:46,179 --> 02:52:43,010

largely unoccupied

3497

02:52:50,050 --> 02:52:46,189

and now nature is making this rapid

3498

02:52:52,179 --> 02:52:50,060

recovery in the the climatic optimum as

3499

02:52:55,179 --> 02:52:52,189

it's called that came in the wake of the

3500

02:52:58,780 --> 02:52:55,189

younger driest there was no reason for

3501
02:53:01,929 --> 02:52:58,790
conflict because the humid population

3502
02:53:05,530 --> 02:53:01,939
was small the territories were vast the

3503
02:53:07,360 --> 02:53:05,540
resource base was massive and so for

3504
02:53:10,030 --> 02:53:07,370
three or four thousand years you

3505
02:53:13,990 --> 02:53:10,040
basically had a very pastoral type of

3506
02:53:16,840 --> 02:53:14,000
existence and the [h__\h] yeah the farming

3507
02:53:19,570 --> 02:53:16,850
the foundations of Agriculture and you

3508
02:53:21,610 --> 02:53:19,580
also had hunting and gathering don't

3509
02:53:24,820 --> 02:53:21,620
existing right along with the farming

3510
02:53:25,360 --> 02:53:24,830
because after the decapitation of the

3511
02:53:28,540 --> 02:53:25,370
food chain

3512
02:53:31,179 --> 02:53:28,550
you had this huge proliferation of small

3513
02:53:34,360 --> 02:53:31,189

species which included a lot of game

3514

02:53:37,300 --> 02:53:34,370

species right because the Predators were

3515

02:53:40,349 --> 02:53:37,310

basically gone or half the Predators

3516

02:53:43,240 --> 02:53:40,359

were gone right so the smaller species

3517

02:53:46,360 --> 02:53:43,250

they proliferated and it regenerated

3518

02:53:48,820 --> 02:53:46,370

wildly so you had an environment that

3519

02:53:50,920 --> 02:53:48,830

was very nurturing in effect you know

3520

02:53:53,320 --> 02:53:50,930

this is we find a lot of these goddess

3521

02:53:55,300 --> 02:53:53,330

effigies during this period during which

3522

02:53:57,639 --> 02:53:55,310

people are basically worshipping nature

3523

02:53:58,480 --> 02:53:57,649

because after the catastrophes of the

3524

02:54:01,740 --> 02:53:58,490

Younger Dryas

3525

02:54:04,990 --> 02:54:01,750

which were probably the result of the

3526
02:54:08,440 --> 02:54:05,000
imagination of an angry sky god now we

3527
02:54:11,019 --> 02:54:08,450
had this return to a garden like or even

3528
02:54:14,410 --> 02:54:11,029
like existence that lasted for about

3529
02:54:17,260 --> 02:54:14,420
4000 years until the onset of the neo

3530
02:54:18,730 --> 02:54:17,270
glaciation which was a cooling of the

3531
02:54:21,429 --> 02:54:18,740
Earth's climate that occurred between

3532
02:54:24,219 --> 02:54:21,439
five and six thousand years ago and then

3533
02:54:29,170 --> 02:54:24,229
we began to see the evidence for

3534
02:54:32,019 --> 02:54:29,180
conflict again returning to you know the

3535
02:54:33,910 --> 02:54:32,029
human sphere of activity because for one

3536
02:54:36,880 --> 02:54:33,920
thing during the three to four thousand

3537
02:54:39,880 --> 02:54:36,890
years of the climatic optimum you had a

3538
02:54:42,130 --> 02:54:39,890

huge increase in human population after

3539

02:54:45,130 --> 02:54:42,140

the bottleneck of the Younger Dryas and

3540

02:54:47,200 --> 02:54:45,140

so you had patterns of settled

3541

02:54:49,330 --> 02:54:47,210

you had territories that had kind of

3542

02:54:50,830 --> 02:54:49,340

been laid out and were now settled you

3543

02:54:53,050 --> 02:54:50,840

had community groups that had been

3544

02:54:56,180 --> 02:54:53,060

occupying these areas for thousands of

3545

02:54:59,360 --> 02:54:56,190

years but now with the onset of global

3546

02:55:01,910 --> 02:54:59,370

during the Neo glaciation what happened

3547

02:55:02,660 --> 02:55:01,920

was you had these huge environmental

3548

02:55:04,820 --> 02:55:02,670

changes

3549

02:55:06,710 --> 02:55:04,830

you know yet farming that was going on

3550

02:55:08,450 --> 02:55:06,720

at 10,000 feet above sea level that's

3551

02:55:11,480 --> 02:55:08,460

suddenly not possible anymore

3552

02:55:13,820 --> 02:55:11,490

right it's it's very much like what

3553

02:55:15,230 --> 02:55:13,830

happened to the Scandinavians in

3554

02:55:17,810 --> 02:55:15,240

Greenland during the Medieval Warm

3555

02:55:20,720 --> 02:55:17,820

Period when the Little Ice Age came on

3556

02:55:22,940 --> 02:55:20,730

they basically over period it wasn't all

3557

02:55:25,040 --> 02:55:22,950

at once but it took about a century and

3558

02:55:28,820 --> 02:55:25,050

they were basically frozen out and they

3559

02:55:31,131 --> 02:55:28,830

came extinct that's right yeah so yes so

3560

02:55:36,020 --> 02:55:31,141

the point here being I guess is that

3561

02:55:40,850 --> 02:55:36,030

that I'm not sure what the point is we

3562

02:55:45,170 --> 02:55:40,860

need to start paying attention that's

3563

02:55:48,020 --> 02:55:45,180

right that's right and the there's for

3564

02:55:50,870 --> 02:55:48,030

me now I forgot my point I had something

3565

02:55:55,640 --> 02:55:50,880

extraordinary that I was gonna lay out

3566

02:55:59,270 --> 02:55:55,650

there but listen no you Randall thank

3567

02:56:01,850 --> 02:55:59,280

you so much my friend and and it was

3568

02:56:04,790 --> 02:56:01,860

right there - it was right there on the

3569

02:56:06,740 --> 02:56:04,800

front of my brain will save it we'll

3570

02:56:08,870 --> 02:56:06,750

save it for another show thank you so

3571

02:56:11,150 --> 02:56:08,880

much and let me let me throw in a quick

3572

02:56:13,551 --> 02:56:11,160

plug if people want to get more deeply

3573

02:56:14,960 --> 02:56:13,561

into this while doing a podcast now with

3574

02:56:20,750 --> 02:56:14,970

some some good friends of mine

3575

02:56:24,320 --> 02:56:20,760

it's called Cosmo Gracia kos mo g ra ph

3576

02:56:26,900 --> 02:56:24,330

i a dot-com and Randall Carlton dotnet

3577

02:56:30,740 --> 02:56:26,910

they will be able to find a whole lot of

3578

02:56:32,990 --> 02:56:30,750

podcast with images and video clips and

3579

02:56:36,051 --> 02:56:33,000

stuff that gets in all the stuff you and

3580

02:56:39,770 --> 02:56:36,061

me have been talking about and you said

3581

02:56:41,830 --> 02:56:39,780

it's all over ed well what about sacred

3582

02:56:44,420 --> 02:56:41,840

geometry international.com

3583

02:56:46,790 --> 02:56:44,430

is it there's been contributing to that

3584

02:56:49,280 --> 02:56:46,800

for a little while so nothing new there

3585

02:56:51,230 --> 02:56:49,290

okay you there's still a lot of good

3586

02:56:55,520 --> 02:56:51,240

stuff there a lot of gives it give me

3587

02:57:05,091 --> 02:56:55,530

that link again caught the Cosmo grass

3588

02:57:05,990 --> 02:57:05,101

yeah yeah Cosmo Cosmo GRA thi ai8 calm

3589

02:57:07,559 --> 02:57:06,000

calm

3590

02:57:10,740 --> 02:57:07,569

I got it right okay

3591

02:57:13,590 --> 02:57:10,750

Oh F mo oh it's hot I smell with the K

3592

02:57:16,139 --> 02:57:13,600

okay I'll get to set a cake I'll get

3593

02:57:18,690 --> 02:57:16,149

this up right now throughout social

3594

02:57:22,170 --> 02:57:18,700

media Randle thank you so much my friend

3595

02:57:24,360 --> 02:57:22,180

and again keep doing what you're doing I

3596

02:57:27,000 --> 02:57:24,370

look forward to our next conversation on

3597

02:57:27,540 --> 02:57:27,010

this program thank you so much well me

3598

02:57:29,460 --> 02:57:27,550

too

3599

02:57:34,349 --> 02:57:29,470

Thank You Jimmy for having me you're the

3600

02:57:35,940 --> 02:57:34,359

best Randall the beard of knowledge and

3601

02:57:37,950 --> 02:57:35,950

with that I'm gonna get out of here I

3602

02:57:40,800 --> 02:57:37,960

want to remind everybody tomorrow night

3603

02:57:44,429 --> 02:57:40,810

is a fader night with open lines all

3604

02:57:47,960 --> 02:57:44,439

night long it is Cosmo graffia with the

3605

02:57:51,269 --> 02:57:47,970

K dot-com I will get that up in Twitter

3606

02:57:52,110 --> 02:57:51,279

immediately and I want everybody to go

3607

02:57:54,929 --> 02:57:52,120

over and check it out

3608

02:57:58,740 --> 02:57:54,939

there's nothing more fun than getting

3609

02:58:00,059 --> 02:57:58,750

your learn on from Randall Carlson I am

3610

02:58:03,120 --> 02:58:00,069

your host Jimmy Church

3611

02:58:07,440 --> 02:58:03,130

fade to black executive producer is

3612

02:58:10,200 --> 02:58:07,450

ritika Murray on show is produced by and

3613

02:58:13,730 --> 02:58:10,210

I've lost my show notes in one click

3614

02:58:17,070 --> 02:58:13,740

Hill J Palmer Nate Dennison Kevin

3615

02:58:19,350 --> 02:58:17,080

announcers are Steve harder Jean Patou a

3616

02:58:22,200 --> 02:58:19,360

Marty colbaugh webmaster is true the

3617

02:58:25,560 --> 02:58:22,210

geek music doug aldrich intro space boys

3618

02:58:28,140 --> 02:58:25,570

space boy music Tom fade to black is

3619

02:58:32,461 --> 02:58:28,150

produced by kjsurya at work in

3620

02:58:34,591 --> 02:58:32,471

syndication as kg RA the planets Spock

3621

02:58:36,541 --> 02:58:34,601

has owned the copyright of 2020 by fade

3622

02:58:39,180 --> 02:58:36,551

to black in the game changer Network Inc

3623

02:58:40,711 --> 02:58:39,190

it cannot be rebroadcast downloaded

3624

02:58:41,161 --> 02:58:40,721

copied or used anywhere in the known

3625

02:58:43,200 --> 02:58:41,171

universe

3626
02:58:44,761 --> 02:58:43,210
without written permission from fade to

3627
02:58:46,860 --> 02:58:44,771
black or the game changer Network

3628
02:58:50,610 --> 02:58:46,870
army'll shimmy Church thank you to

3629
02:58:53,700 --> 02:58:50,620
Randall Carlson cosmography accom I'll

3630
02:58:55,350 --> 02:58:53,710
get it up right now in social media Tron

3631
02:58:59,180 --> 02:58:55,360
I'd skater night open lines all night