



Society for Scientific Exploration

1
00:00:00,600 --> 00:00:09,720

[Music]

2
00:00:14,619 --> 00:00:12,160

first of all I'd like to thank Tom

3
00:00:18,130 --> 00:00:14,629

Dykstra for inviting me it is really an

4
00:00:22,600 --> 00:00:18,140

honor to be here and yesterday dr.

5
00:00:26,080 --> 00:00:22,610

O'Leary spoke briefly about being out of

6
00:00:30,249 --> 00:00:26,090

the box I'd like to think it a bit more

7
00:00:32,679 --> 00:00:30,259

as multi-dimensional thinking you have a

8
00:00:35,410 --> 00:00:32,689

tunnel and we have all the information

9
00:00:39,389 --> 00:00:35,420

around the tunnel so we gathered the

10
00:00:41,860 --> 00:00:39,399

information to solve a problem and

11
00:00:50,680 --> 00:00:41,870

that's what we're gonna do here this

12
00:00:54,160 --> 00:00:50,690

morning during the winters 2009 through

13
00:00:57,790 --> 00:00:54,170

about 2011 all kinds of snowfall records

14

00:01:01,650 --> 00:00:57,800

broken across the United States this

15

00:01:03,999 --> 00:01:01,660

past winter records broken in Alaska

16

00:01:09,539 --> 00:01:04,009

Russia record cold

17

00:01:13,389 --> 00:01:09,549

meanwhile United States very very warm

18

00:01:18,399 --> 00:01:13,399

global warming is real it's definitely

19

00:01:20,859 --> 00:01:18,409

real what we have is a fight between two

20

00:01:23,289 --> 00:01:20,869

systems global cooling and global

21

00:01:25,870 --> 00:01:23,299

warming just like in the spring when we

22

00:01:27,489 --> 00:01:25,880

have tornadoes a fight between winter

23

00:01:29,889 --> 00:01:27,499

weather and summer weather which ones

24

00:01:31,870 --> 00:01:29,899

are going to take over and we're having

25

00:01:33,910 --> 00:01:31,880

a fight on that now we've had global

26
00:01:40,539 --> 00:01:33,920
warming now which one's going to take

27
00:01:42,219 --> 00:01:40,549
over this graphic from 1870 up to

28
00:01:45,010 --> 00:01:42,229
present time showing the increase of

29
00:01:47,949 --> 00:01:45,020
carbon dioxide it's no question about it

30
00:01:51,609 --> 00:01:47,959
it's increased from about 260 70 parts

31
00:01:56,849 --> 00:01:51,619
per million back in 1870 up to about 395

32
00:02:00,279 --> 00:01:56,859
parts per million now this is a graphic

33
00:02:03,099 --> 00:02:00,289
the United States temperatures from 1880

34
00:02:06,669 --> 00:02:03,109
to present time this is the present time

35
00:02:08,830 --> 00:02:06,679
right here and the arch line the O line

36
00:02:15,210 --> 00:02:08,840
notes the increase in carbon dioxide

37
00:02:20,020 --> 00:02:15,220
during this 110 20 year period from 1880

38
00:02:21,670 --> 00:02:20,030

to 1930 you can see kind of ten-year ups

39

00:02:22,760 --> 00:02:21,680

and downs in the temperature but overall

40

00:02:25,400 --> 00:02:22,770

temperature

41

00:02:29,300 --> 00:02:25,410

the same then we had a ten-year spike in

42

00:02:32,930 --> 00:02:29,310

the temperatures been a 50-year downturn

43

00:02:35,330 --> 00:02:32,940

and now we just had a ten-year spike

44

00:02:37,790 --> 00:02:35,340

again in temperatures this is the

45

00:02:40,280 --> 00:02:37,800

typical global warming cycle two

46

00:02:42,020 --> 00:02:40,290

ten-year peaks and temperatures with

47

00:02:45,800 --> 00:02:42,030

about 50 years of cooler weather in

48

00:02:49,610 --> 00:02:45,810

between and no the relationship at all

49

00:02:52,720 --> 00:02:49,620

to increase in carbon dioxide carbon

50

00:02:55,660 --> 00:02:52,730

dioxide is a byproduct of global warming

51

00:03:00,140 --> 00:02:55,670

again this is a graphic

52

00:03:01,780 --> 00:03:00,150

this is batoul 10-year peaks but I just

53

00:03:04,670 --> 00:03:01,790

showed you

54

00:03:11,800 --> 00:03:04,680

global warming comes about every 230

55

00:03:17,360 --> 00:03:11,810

years this is back in the 1800's 1500s

56

00:03:20,780 --> 00:03:17,370

1300s 1100 and back around 8 900 AD they

57

00:03:26,750 --> 00:03:20,790

all have a signature of between ten

58

00:03:28,310 --> 00:03:26,760

years spikes and temperature well us

59

00:03:30,830 --> 00:03:28,320

humans we need an afternoon nap

60

00:03:33,980 --> 00:03:30,840

sometimes to get us through rest of a

61

00:03:36,050 --> 00:03:33,990

day we get a little sluggish and this is

62

00:03:37,550 --> 00:03:36,060

what happens in the global warming

63

00:03:39,770 --> 00:03:37,560

cooling cycles become every two hundred

64

00:03:41,930 --> 00:03:39,780

and thirty years during global cooling

65

00:03:44,570 --> 00:03:41,940

cycle earth needs a little nap to

66

00:03:46,610 --> 00:03:44,580

regenerate during the longer cycles

67

00:03:50,330 --> 00:03:46,620

become every hundred and twenty thousand

68

00:03:54,260 --> 00:03:50,340

years earth needs a longer nap to

69

00:03:57,140 --> 00:03:54,270

regenerate what we have are about 30 40

70

00:03:59,840 --> 00:03:57,150

thousand years of a glacial period to

71

00:04:03,230 --> 00:03:59,850

give the earth a good long rest and then

72

00:04:09,070 --> 00:04:03,240

the warm dynamic periods such as what

73

00:04:12,770 --> 00:04:09,080

we're in right now peeking out back in

74

00:04:15,080 --> 00:04:12,780

May of last year a year ago there's a

75

00:04:16,120 --> 00:04:15,090

person that said Oh world's coming to an

76

00:04:18,349 --> 00:04:16,130

end

77

00:04:20,090 --> 00:04:18,359

meanwhile over in right we had people

78

00:04:21,289 --> 00:04:20,100

talking about global warming earth is

79

00:04:25,180 --> 00:04:21,299

coming to an end if we don't do

80

00:04:28,820 --> 00:04:25,190

something well science said in the 1400s

81

00:04:32,920 --> 00:04:28,830

world is flat we know what happened

82

00:04:34,869 --> 00:04:32,930

there 1970s earth is enduring ice age

83

00:04:37,640 --> 00:04:34,879

that didn't happen

84

00:04:39,950 --> 00:04:37,650

two thousand four and five after the big

85

00:04:41,990 --> 00:04:39,960

hurricanes in Florida and through Abba

86

00:04:45,230 --> 00:04:42,000

genic manmade global warming it's

87

00:04:47,960 --> 00:04:45,240

causing stronger hurricanes I researched

88

00:04:50,029 --> 00:04:47,970

the cycles National Hurricane Center

89

00:04:52,640 --> 00:04:50,039

research for cycles it's not true

90

00:04:57,260 --> 00:04:52,650

we had just as strong hurricanes in the

91

00:04:59,059 --> 00:04:57,270

past 2004 to present people saying

92

00:05:01,879 --> 00:04:59,069

Mississippi River flood last year was

93

00:05:04,790 --> 00:05:01,889

caused by global warming and tornadoes

94

00:05:08,450 --> 00:05:04,800

last year I've researched this I track

95

00:05:11,300 --> 00:05:08,460

him on my model this is all cyclical and

96

00:05:13,969 --> 00:05:11,310

now 1990s to present global warming

97

00:05:19,990 --> 00:05:13,979

caused by ban rest abyss wasn't right

98

00:05:23,330 --> 00:05:20,000

what do we think about this since 1995

99

00:05:26,719 --> 00:05:23,340

we've had manipulation by the University

100

00:05:30,320 --> 00:05:26,729

grant system grants to universities were

101
00:05:32,330 --> 00:05:30,330
only granted to study man's connection

102
00:05:34,700 --> 00:05:32,340
to global warming you couldn't get a

103
00:05:38,320 --> 00:05:34,710
research grant in Europe United States

104
00:05:41,059 --> 00:05:38,330
to study natural cycles because of this

105
00:05:44,719 --> 00:05:41,069
the journals anything printed in the

106
00:05:47,839 --> 00:05:44,729
journals was due was a be man-made

107
00:05:49,430 --> 00:05:47,849
global warming so when it was printed

108
00:05:51,620 --> 00:05:49,440
majeure NAL's to media to get a hold of

109
00:05:55,309 --> 00:05:51,630
that information this is what we'd saved

110
00:05:57,110 --> 00:05:55,319
media may and made global warming so the

111
00:05:58,969 --> 00:05:57,120
media would hype it up that would hype

112
00:06:00,939 --> 00:05:58,979
up the government the government would

113
00:06:05,260 --> 00:06:00,949

put out more grants they're all hyped up

114

00:06:07,939 --> 00:06:05,270

now it was a poll about a year ago that

115

00:06:09,860 --> 00:06:07,949

ninety percent of the grant scientists

116

00:06:11,890 --> 00:06:09,870

once receiving grants for studies

117

00:06:14,029 --> 00:06:11,900

believe in man-made global warming

118

00:06:15,950 --> 00:06:14,039

eighty five percent of the general

119

00:06:20,390 --> 00:06:15,960

meteorologists and climatologists say

120

00:06:21,800 --> 00:06:20,400

it's mostly natural cycles meanwhile

121

00:06:24,439 --> 00:06:21,810

this trickles down to the energy

122

00:06:29,360 --> 00:06:24,449

community where they have to become

123

00:06:35,719 --> 00:06:29,370

politically correct let's take a look at

124

00:06:37,670 --> 00:06:35,729

the Earth's atmospheric gases 99% of the

125

00:06:42,439 --> 00:06:37,680

atmospheric gases are made up of

126
00:06:46,610 --> 00:06:42,449
nitrogen oxygen and argon leaves 1% for

127
00:06:49,460 --> 00:06:46,620
the greenhouse gas of the 1% almost the

128
00:06:52,710 --> 00:06:49,470
entire 1% is water vapor

129
00:06:55,130 --> 00:06:52,720
carbon dioxide you can't even see it uh

130
00:07:00,480 --> 00:06:55,140
my graphic so let's blow it up

131
00:07:03,180 --> 00:07:00,490
here we are greenhouse gases 96% carbon

132
00:07:04,590 --> 00:07:03,190
dioxide varies between we'll go to parts

133
00:07:06,930 --> 00:07:04,600
per million on its hood some bigger

134
00:07:09,510 --> 00:07:06,940
numbers goes between hundred and sixty

135
00:07:12,000 --> 00:07:09,520
parts per million to 400 parts per

136
00:07:19,020 --> 00:07:12,010
million compared to 10,000 parts per

137
00:07:22,830 --> 00:07:19,030
million for water vapour down water

138
00:07:24,540 --> 00:07:22,840

vapour as I said it varies between 160

139

00:07:28,170 --> 00:07:24,550

up to about 400 parts per million

140

00:07:30,060 --> 00:07:28,180

scientists say we've never been above

141

00:07:32,460 --> 00:07:30,070

300 parts per million over the past

142

00:07:37,020 --> 00:07:32,470

couple million years I'm going to show

143

00:07:40,200 --> 00:07:37,030

you that were frequently up to 334 parts

144

00:07:47,580 --> 00:07:40,210

per million and even up to close to 400

145

00:07:51,960 --> 00:07:47,590

parts per million now is the higher

146

00:07:54,480 --> 00:07:51,970

levels harmful greenhouses they keep

147

00:07:57,570 --> 00:07:54,490

their carbon dioxide between 500 to

148

00:08:03,800 --> 00:07:57,580

1,000 parts per million beneficial for

149

00:08:07,230 --> 00:08:03,810

plant growth when the dinosaurs roamed

150

00:08:11,340 --> 00:08:07,240

carbon dioxide levels were 1000 to 1500

151
00:08:15,060 --> 00:08:11,350
parts per million plants and animals big

152
00:08:21,120 --> 00:08:15,070
and robust oxygen back then was 31%

153
00:08:25,620 --> 00:08:21,130
we're down to 21% now 21% that's because

154
00:08:27,770 --> 00:08:25,630
of the lack of the carbon dioxide so

155
00:08:32,280 --> 00:08:27,780
where does carbon dioxide come from

156
00:08:34,650 --> 00:08:32,290
carbon dioxide cycle in the bottom of

157
00:08:36,660 --> 00:08:34,660
picture it's from dead organisms fossils

158
00:08:40,560 --> 00:08:36,670
fossil fuels decaying plants root

159
00:08:43,170 --> 00:08:40,570
respiration animal respiration that all

160
00:08:45,810 --> 00:08:43,180
goes up into the atmosphere and even the

161
00:08:47,750 --> 00:08:45,820
oceans will either take it in or put it

162
00:08:51,420 --> 00:08:47,760
out over on the left you have a tree

163
00:08:55,350 --> 00:08:51,430

trees take in carbon dioxide to balance

164

00:08:57,180 --> 00:08:55,360

it off but if it was only that simple we

165

00:08:58,590 --> 00:08:57,190

have to deal with interglacial warm

166

00:09:00,210 --> 00:08:58,600

periods every hundred and sixteen

167

00:09:01,740 --> 00:09:00,220

thousand years but caused a change

168

00:09:02,220 --> 00:09:01,750

global warming cycles every two hundred

169

00:09:04,830 --> 00:09:02,230

and three

170

00:09:06,960 --> 00:09:04,840

years and changes in seasons winter to

171

00:09:13,490 --> 00:09:06,970

summer they all have changes in carbon

172

00:09:16,140 --> 00:09:13,500

dioxide just 15,000 years ago up over

173

00:09:19,110 --> 00:09:16,150

New England from almost New York City

174

00:09:23,340 --> 00:09:19,120

Northwood it was in that glacial period

175

00:09:27,660 --> 00:09:23,350

mile thick ice year-round up in New

176

00:09:29,330 --> 00:09:27,670

England still and of course because of

177

00:09:32,250 --> 00:09:29,340

that you didn't have any bare ground

178

00:09:34,680 --> 00:09:32,260

from there North wood so you didn't have

179

00:09:38,430 --> 00:09:34,690

a natural feedback of carbon dioxide

180

00:09:40,070 --> 00:09:38,440

into the atmosphere then the glacial

181

00:09:42,660 --> 00:09:40,080

period went away

182

00:09:47,100 --> 00:09:42,670

well this is what it does to the carbon

183

00:09:48,930 --> 00:09:47,110

dioxide cycle you get the ice age all

184

00:09:52,620 --> 00:09:48,940

your feedback and carbon dioxide goes

185

00:09:56,280 --> 00:09:52,630

away you have a big negative loss in the

186

00:09:58,890 --> 00:09:56,290

atmosphere colder oceans absorb the

187

00:10:00,420 --> 00:09:58,900

carbon dioxide stored up for 30 40

188

00:10:02,670 --> 00:10:00,430

thousand years waiting for the next

189

00:10:08,220 --> 00:10:02,680

interglacial period that comes every 120

190

00:10:12,330 --> 00:10:08,230

thousand years photosynthesis drops by

191

00:10:17,100 --> 00:10:12,340

50 to 75 percent when the ice age goes

192

00:10:19,380 --> 00:10:17,110

away all the feedback comes back the

193

00:10:21,510 --> 00:10:19,390

oceans dump all that carbon dioxide back

194

00:10:24,360 --> 00:10:21,520

to the atmosphere over a matter of only

195

00:10:26,270 --> 00:10:24,370

about 10,000 years so we have a huge

196

00:10:35,360 --> 00:10:26,280

increase in the atmosphere

197

00:10:39,400 --> 00:10:37,340

and this is what it looks like in a

198

00:10:41,660 --> 00:10:39,410

long-term and the left

199

00:10:42,890 --> 00:10:41,670

Redis temperature this is back four

200

00:10:46,040 --> 00:10:42,900

hundred and thirty thousand years ago

201
00:10:48,590 --> 00:10:46,050
blue is carbon dioxide every hundred and

202
00:10:50,390 --> 00:10:48,600
twenty thousand years we heavy into the

203
00:10:55,220 --> 00:10:50,400
interglacial peak and temperature in

204
00:10:56,960 --> 00:10:55,230
carbon dioxide and during the past forty

205
00:10:59,180 --> 00:10:56,970
fifty thousand years missiles are a very

206
00:11:06,260 --> 00:10:59,190
deep glacial period that we just came

207
00:11:09,110 --> 00:11:06,270
out of how can we get past history to

208
00:11:09,580 --> 00:11:09,120
produce a map graphic that I just showed

209
00:11:12,590 --> 00:11:09,590
you

210
00:11:12,800 --> 00:11:12,600
well my grandchildren say I'm Santa

211
00:11:14,570 --> 00:11:12,810
Claus

212
00:11:16,850 --> 00:11:14,580
so of course I'm in my backyard my

213
00:11:19,940 --> 00:11:16,860

thermometer and I'm taken to records

214

00:11:23,300 --> 00:11:19,950

pass half million years or we can go

215

00:11:26,360 --> 00:11:23,310

down to the Antarctica what we have here

216

00:11:29,480 --> 00:11:26,370

is a block of ice in the ice

217

00:11:32,780 --> 00:11:29,490

you see air bubbles in the air bubbles

218

00:11:35,840 --> 00:11:32,790

is trapped atmosphere so if we can find

219

00:11:37,400 --> 00:11:35,850

some old ice extract the old atmosphere

220

00:11:39,650 --> 00:11:37,410

we can determine how much carbon dioxide

221

00:11:42,710 --> 00:11:39,660

there was in the air at a given time in

222

00:11:48,070 --> 00:11:42,720

history so the Russians went down to the

223

00:11:51,230 --> 00:11:48,080

Antarctica so a glacial lake vostok very

224

00:11:55,070 --> 00:11:51,240

thick ice water down and bottom of a

225

00:11:58,280 --> 00:11:55,080

lake they drilled down about 13,000 feet

226

00:12:00,530 --> 00:11:58,290

that's a lot of ice that is called old

227

00:12:03,440 --> 00:12:00,540

ice ice at the bottom four hundred and

228

00:12:06,590 --> 00:12:03,450

thirty thousand years old up at the top

229

00:12:09,470 --> 00:12:06,600

the first seven thousand years of the

230

00:12:12,320 --> 00:12:09,480

ice core is called new ice you cannot

231

00:12:14,210 --> 00:12:12,330

use the new ice because it takes five to

232

00:12:16,760 --> 00:12:14,220

six seven thousand years for the air

233

00:12:19,970 --> 00:12:16,770

bubbles to become permanently locked in

234

00:12:24,260 --> 00:12:19,980

the ice up until that time it moves

235

00:12:29,270 --> 00:12:24,270

around in the ice so you can't use new

236

00:12:32,030 --> 00:12:29,280

ice that's when an ice core it looks

237

00:12:35,980 --> 00:12:32,040

like they take off the piece of ice to

238

00:12:42,020 --> 00:12:35,990

analyze it and missus by graphic we get

239

00:12:45,320 --> 00:12:42,030

on the Left 338 thousand years ago took

240

00:12:48,230 --> 00:12:45,330

50 global warming cycles over course at

241

00:12:49,010 --> 00:12:48,240

ten thousand years to peak out Eagle

242

00:12:51,340 --> 00:12:49,020

warming cycle

243

00:12:55,010 --> 00:12:51,350

got warmer and warmer carbon dioxide

244

00:12:57,050 --> 00:12:55,020

increases however science is found

245

00:13:00,140 --> 00:12:57,060

there's a lag in the increase of carbon

246

00:13:04,460 --> 00:13:00,150

dioxide by 200 to 800 years temperature

247

00:13:08,360 --> 00:13:04,470

goes up first not carbon dioxide when it

248

00:13:10,910 --> 00:13:08,370

Peaks out the peak of 298 parts per

249

00:13:13,640 --> 00:13:10,920

million for carbon dioxide was several

250

00:13:17,840 --> 00:13:13,650

thousand years after the peak of the

251
00:13:20,570 --> 00:13:17,850
temperatures and then you can see the

252
00:13:22,280 --> 00:13:20,580
temperatures falling like a rock for

253
00:13:25,640 --> 00:13:22,290
several thousand years but carbon

254
00:13:28,700 --> 00:13:25,650
dioxide remaining high if carbon dioxide

255
00:13:30,920 --> 00:13:28,710
causes temperatures to rise we would

256
00:13:33,650 --> 00:13:30,930
have had global runaway global warming

257
00:13:36,800 --> 00:13:33,660
back at that time temperatures could not

258
00:13:39,320 --> 00:13:36,810
have fallen and the carbon dioxide

259
00:13:43,580 --> 00:13:39,330
levels were higher than 298 parts per

260
00:13:45,650 --> 00:13:43,590
million the plot is about a 200 to 1000

261
00:13:49,640 --> 00:13:45,660
year mean and you know when you take a

262
00:13:51,380 --> 00:13:49,650
mean you have spikes way above it and

263
00:13:54,170 --> 00:13:51,390

this is why they say we've never been

264

00:13:56,690 --> 00:13:54,180

above 300 parts per million because it's

265

00:14:02,030 --> 00:13:56,700

a mean value over two hundred to a

266

00:14:04,550 --> 00:14:02,040

thousand years the next cycle took 30

267

00:14:06,860 --> 00:14:04,560

global warming cycles there is 50

268

00:14:10,310 --> 00:14:06,870

there's 30 global warming cycles next

269

00:14:13,940 --> 00:14:10,320

one took 41 where now there's only 20

270

00:14:16,820 --> 00:14:13,950

global warming cycles up until about

271

00:14:19,790 --> 00:14:16,830

eight thousand years ago when we had two

272

00:14:22,730 --> 00:14:19,800

hundred and sixty parts per million but

273

00:14:24,560 --> 00:14:22,740

we do know that the temperatures were

274

00:14:26,840 --> 00:14:24,570

very high at that time that was the peak

275

00:14:29,600 --> 00:14:26,850

of our interglacial period for

276
00:14:31,220 --> 00:14:29,610
temperatures because seven thousand

277
00:14:35,330 --> 00:14:31,230
years ago there was fifty percent less

278
00:14:40,190 --> 00:14:35,340
ice in the Arctic that marries today 50

279
00:14:42,290 --> 00:14:40,200
percent less but as you can see we're

280
00:14:44,270 --> 00:14:42,300
have been missing carbon dioxide here

281
00:14:46,880 --> 00:14:44,280
because it's pasado seven thousand year

282
00:14:48,620 --> 00:14:46,890
period where we cannot acquire the

283
00:14:53,060 --> 00:14:48,630
carbon dioxide from the ice core

284
00:14:56,210 --> 00:14:53,070
so let's acquire it ourselves we're

285
00:15:00,130 --> 00:14:56,220
going to take the liquid cycles again

286
00:15:03,319 --> 00:15:00,140
and what we want to do is look to see

287
00:15:05,540 --> 00:15:03,329
how much the carbon dioxide

288
00:15:09,650 --> 00:15:05,550

during the last four thousand years of a

289

00:15:12,259 --> 00:15:09,660

cycle the first cycle back three hundred

290

00:15:15,980 --> 00:15:12,269

thirty-eight thousand years ago it rolls

291

00:15:18,920 --> 00:15:15,990

57 parts per million the next cycle it

292

00:15:22,309 --> 00:15:18,930

went up 50 parts per million the next

293

00:15:27,290 --> 00:15:22,319

cycle sixty seven parts per million then

294

00:15:32,360 --> 00:15:27,300

let's take a mean of that the mean of

295

00:15:33,710 --> 00:15:32,370

the rises are 58 well back seven

296

00:15:35,180 --> 00:15:33,720

thousand years ago we were two hundred

297

00:15:37,249 --> 00:15:35,190

and sixty parts per million but we had a

298

00:15:40,160 --> 00:15:37,259

twenty more global warming cycles to go

299

00:15:41,449 --> 00:15:40,170

yet so let's add that mean to it comes

300

00:15:43,340 --> 00:15:41,459

up to three hundred and eighteen parts

301

00:15:45,620 --> 00:15:43,350

per million that's what our mean value

302

00:15:47,689 --> 00:15:45,630

should be right now above 300 parts per

303

00:15:49,129 --> 00:15:47,699

million now the scientists would say

304

00:15:51,319 --> 00:15:49,139

yeah but we're up to three hundred and

305

00:15:53,960 --> 00:15:51,329

seventy parts per billion on the ground

306

00:15:56,930 --> 00:15:53,970

surface down at Lake Vostok way up high

307

00:16:00,290 --> 00:15:56,940

but that's an instantaneous reading from

308

00:16:05,150 --> 00:16:00,300

an instrument not a mean they don't tell

309

00:16:06,980 --> 00:16:05,160

you that it's a instantaneous reading so

310

00:16:08,900 --> 00:16:06,990

we won't take a thousand-year mean here

311

00:16:14,090 --> 00:16:08,910

what we'll do is take a 100-year mean

312

00:16:15,829 --> 00:16:14,100

what the carbon dioxide was a hundred

313

00:16:19,009 --> 00:16:15,839

years ago one hundred and twenty years

314

00:16:20,569 --> 00:16:19,019

ago and will mean that in and it brings

315

00:16:23,030 --> 00:16:20,579

it down to a three hundred and fifteen

316

00:16:26,210 --> 00:16:23,040

parts per million for mean just like my

317

00:16:28,400 --> 00:16:26,220

318 we're exactly where were supposed to

318

00:16:34,309 --> 00:16:28,410

be for carbon dioxide there's nothing

319

00:16:37,129 --> 00:16:34,319

wrong it's a natural cycle now this is a

320

00:16:39,439 --> 00:16:37,139

graphics created by Peter tans who will

321

00:16:42,949 --> 00:16:39,449

be speaking after me called the carbon

322

00:16:44,660 --> 00:16:42,959

tracker carbon dioxide satellite

323

00:16:48,319 --> 00:16:44,670

information in the troposphere of the

324

00:16:51,889 --> 00:16:48,329

atmosphere this is at the end of winter

325

00:16:54,769 --> 00:16:51,899

in 2009 red is showing very high levels

326
00:16:57,829 --> 00:16:54,779
of carbon dioxide in the atmosphere 393

327
00:17:02,540 --> 00:16:57,839
parts of a million very high only six

328
00:17:07,149 --> 00:17:02,550
months later it drops 15 parts per

329
00:17:09,289 --> 00:17:07,159
million in six months breeze and Wayas

330
00:17:11,870 --> 00:17:09,299
during winter you have a lack of

331
00:17:13,610 --> 00:17:11,880
photosynthesis the plants are not taking

332
00:17:16,370 --> 00:17:13,620
carbon dioxide out of the air so it's

333
00:17:16,880 --> 00:17:16,380
building up in the air at the end of

334
00:17:19,429 --> 00:17:16,890
summer

335
00:17:21,590 --> 00:17:19,439
the plants had extracted carbon dioxide

336
00:17:24,199 --> 00:17:21,600
from the air so you've dropped 15 parts

337
00:17:25,910 --> 00:17:24,209
per million now if you could drop 15

338
00:17:27,049 --> 00:17:25,920

parts per million in just six months

339

00:17:35,390 --> 00:17:27,059

what do you think it can do in a hundred

340

00:17:40,100 --> 00:17:35,400

years photosynthesis okay this is a

341

00:17:43,130 --> 00:17:40,110

study done by dr. Beck this is a leaf

342

00:17:45,320 --> 00:17:43,140

plant leaflet in belief you have little

343

00:17:47,780 --> 00:17:45,330

cells called stomata it's like our lungs

344

00:17:50,330 --> 00:17:47,790

excuse me it's like our lungs little

345

00:17:52,159 --> 00:17:50,340

stomata cells they found an inverse

346

00:17:54,049 --> 00:17:52,169

proportion if you have more stomata

347

00:17:56,150 --> 00:17:54,059

cells you have the less carbon dioxide

348

00:17:58,340 --> 00:17:56,160

at vice versa if you have the less

349

00:18:01,580 --> 00:17:58,350

stomata cells you have more carbon

350

00:18:04,310 --> 00:18:01,590

dioxide and the beauty of this is leaf

351

00:18:05,780 --> 00:18:04,320

Li lives one year so instead of a

352

00:18:10,880 --> 00:18:05,790

thousand year mean you can get a one

353

00:18:14,409 --> 00:18:10,890

year reading and this is what he came up

354

00:18:17,150 --> 00:18:14,419

with down at the bottom

355

00:18:18,970 --> 00:18:17,160

that's what five global warming cycles

356

00:18:21,169 --> 00:18:18,980

during the past twelve hundred years

357

00:18:22,630 --> 00:18:21,179

first global warming cycle back around

358

00:18:25,460 --> 00:18:22,640

900 AD

359

00:18:27,320 --> 00:18:25,470

plants Amadas show but we're up at 400

360

00:18:30,890 --> 00:18:27,330

parts per million way back twelve

361

00:18:32,240 --> 00:18:30,900

hundred years ago then of course of only

362

00:18:33,950 --> 00:18:32,250

about fifty seventy-five years he

363

00:18:36,140 --> 00:18:33,960

dropped down to 250 parts per million

364

00:18:38,630 --> 00:18:36,150
during global cooling next global

365

00:18:41,360 --> 00:18:38,640
warming cycle peaked out again Dex Coble

366

00:18:44,650 --> 00:18:41,370
warming cycle next global warming cycle

367

00:18:48,289 --> 00:18:44,660
next global warming cycle and then in

368

00:18:50,539 --> 00:18:48,299
1860 1870 Instruments said we were at

369

00:18:53,510 --> 00:18:50,549
260 parts per million plants stomata

370

00:18:55,970 --> 00:18:53,520
said 260 yet parts per million ice cores

371

00:19:03,020 --> 00:18:55,980
said three 260 parts per million all

372

00:19:05,960 --> 00:19:03,030
agreed and then now 375 to 395 parts per

373

00:19:08,810 --> 00:19:05,970
million they all agree again so plant

374

00:19:10,700 --> 00:19:08,820
stomata can be used over time and beauty

375

00:19:13,850 --> 00:19:10,710
of it is it goes with the global warming

376

00:19:16,700 --> 00:19:13,860

cycles but 1,000 year mean of a plant

377

00:19:20,330 --> 00:19:16,710

stomata is about 305 parts per million

378

00:19:23,120 --> 00:19:20,340

just like our a thousand year mean it's

379

00:19:27,650 --> 00:19:23,130

exactly what we're seeing happen we have

380

00:19:29,850 --> 00:19:27,660

rapid changes in just 75 years this is

381

00:19:36,840 --> 00:19:29,860

my favorite favorite part now

382

00:19:39,450 --> 00:19:36,850

Earth's climate pulse the cause the

383

00:19:43,710 --> 00:19:39,460

orbit of the earth elliptical around the

384

00:19:45,900 --> 00:19:43,720

Sun every 120,000 years the Sun the Moon

385

00:19:49,230 --> 00:19:45,910

moves out further from the Sun causes

386

00:19:53,010 --> 00:19:49,240

the 120,000 year glacial period then it

387

00:19:55,620 --> 00:19:53,020

comes in swings in close the 120

388

00:19:58,530 --> 00:19:55,630

thousand year warm period that we're in

389

00:20:01,080 --> 00:19:58,540

now this is V Milankovitch cycles very

390

00:20:04,049 --> 00:20:01,090

famous cycles very well known in science

391

00:20:06,330 --> 00:20:04,059

what I inject into it is B lunar solar

392

00:20:09,870 --> 00:20:06,340

precession I add the gravitational

393

00:20:11,730 --> 00:20:09,880

cycles of the moon and the Sun if it was

394

00:20:13,440 --> 00:20:11,740

not for the gravitational tidal forces

395

00:20:16,320 --> 00:20:13,450

of the Moon and Sun the earth would spin

396

00:20:20,159 --> 00:20:16,330

out of control and what we're going to

397

00:20:23,220 --> 00:20:20,169

look at is for gravitational cycles and

398

00:20:28,380 --> 00:20:23,230

especially benign year 72 year and 230

399

00:20:31,500 --> 00:20:28,390

year cycles elliptical paths orbit of

400

00:20:34,289 --> 00:20:31,510

the moon around the earth every six

401
00:20:36,390 --> 00:20:34,299
months swings in close to the earth this

402
00:20:40,370 --> 00:20:36,400
is a perigee proxy G and in alignment

403
00:20:42,990 --> 00:20:40,380
with the Sun perigee proxy G syzygy

404
00:20:47,190 --> 00:20:43,000
gravitational tidal force on the earth

405
00:20:49,470 --> 00:20:47,200
increases up to 47% that's a huge

406
00:20:54,000 --> 00:20:49,480
increase 47% so you would expect

407
00:20:57,120 --> 00:20:54,010
something to happen and also bits a

408
00:20:58,770 --> 00:20:57,130
position of a moon in the sky that's

409
00:21:00,900 --> 00:20:58,780
strong six months cycle I'm talking

410
00:21:04,440 --> 00:21:00,910
about it'll start out in the northern

411
00:21:06,750 --> 00:21:04,450
hemisphere up around 20 28 degrees over

412
00:21:09,060 --> 00:21:06,760
the course of time takes four years to

413
00:21:11,430 --> 00:21:09,070

go down to southern hemisphere then back

414

00:21:13,950 --> 00:21:11,440

to northern hemisphere that's a nine

415

00:21:15,840 --> 00:21:13,960

year cycle from a north back to the

416

00:21:19,580 --> 00:21:15,850

north nine year cycle of the

417

00:21:23,460 --> 00:21:19,590

gravitational cycle what this does

418

00:21:27,360 --> 00:21:23,470

between the new moon and full moon great

419

00:21:30,030 --> 00:21:27,370

torque on the Earth causing plunger

420

00:21:32,100 --> 00:21:30,040

effect gravitational pull on the oceans

421

00:21:37,169 --> 00:21:32,110

atmosphere and in the core outer core of

422

00:21:40,200 --> 00:21:37,179

the earth this is what the cycle looks

423

00:21:43,830 --> 00:21:40,210

like but nine year cycles this is actual

424

00:21:44,970 --> 00:21:43,840

cycles 1990 the northern hemisphere

425

00:21:47,940 --> 00:21:44,980

high in the sky in northern hemisphere

426

00:21:49,289 --> 00:21:47,950

nine years later goes from it down to

427

00:21:51,570 --> 00:21:49,299

the southern hemisphere back to northern

428

00:21:56,340 --> 00:21:51,580

hemisphere and northern hemisphere nine

429

00:21:57,380 --> 00:21:56,350

year cycles you probably recall I showed

430

00:21:59,399 --> 00:21:57,390

you this earlier

431

00:22:03,269 --> 00:21:59,409

temperatures in the United States since

432

00:22:05,940 --> 00:22:03,279

1880 and I was talking about a ten-year

433

00:22:09,720 --> 00:22:05,950

blip in temperatures well let's put it

434

00:22:15,269 --> 00:22:09,730

in there nine to ten year blips just

435

00:22:16,620 --> 00:22:15,279

like the nine year cycle now this is

436

00:22:18,510 --> 00:22:16,630

some information that came out in

437

00:22:24,149 --> 00:22:18,520

American Meteorological Society bulletin

438

00:22:26,279 --> 00:22:24,159

of last year not my research it was the

439

00:22:29,310 --> 00:22:26,289

North Atlantic what happens every so

440

00:22:34,110 --> 00:22:29,320

often is a pool of warm water pulses

441

00:22:38,039 --> 00:22:34,120

into the Arctic Ocean and it takes this

442

00:22:42,750 --> 00:22:38,049

is B North Atlantic Scandinavia Russia

443

00:22:46,830 --> 00:22:42,760

Alaska Canada and Greenland so a pulse

444

00:22:52,920 --> 00:22:46,840

is in takes 13 years to go around the

445

00:23:00,510 --> 00:22:55,560

so what I did I want to take a look at

446

00:23:03,540 --> 00:23:00,520

this on my cycles they've researched

447

00:23:06,510 --> 00:23:03,550

three cycles this is where they showed

448

00:23:09,800 --> 00:23:06,520

up on my cycles rate at the peak the

449

00:23:13,950 --> 00:23:09,810

Northern Hemisphere warm pulse

450

00:23:16,140 --> 00:23:13,960

the first pulse 1990 came in warm pots

451
00:23:17,820 --> 00:23:16,150
of water when didn't in the Arctic

452
00:23:20,520 --> 00:23:17,830
that's when he I started to meld up in

453
00:23:24,030 --> 00:23:20,530
the Arctic the ice melts from bottom up

454
00:23:27,120 --> 00:23:24,040
it's all floating ice remember what some

455
00:23:30,600 --> 00:23:27,130
80% of the ice is blow water melts

456
00:23:34,470 --> 00:23:30,610
triple bottom up the pulse of 1990 was

457
00:23:36,720 --> 00:23:34,480
warm 2008 was warm one in 1999 the

458
00:23:39,710 --> 00:23:36,730
middle pulse was very warm that's what's

459
00:23:47,160 --> 00:23:39,720
caused the great belting up there from

460
00:23:48,690 --> 00:23:47,170
1999 up to about 2008 and that's a

461
00:23:50,430 --> 00:23:48,700
signature of the global warming cycles

462
00:23:53,010 --> 00:23:50,440
that very warm pulse but comes in and we

463
00:23:55,020 --> 00:23:53,020

say our ten-year peak in temperatures so

464

00:23:57,570 --> 00:23:55,030

this is what happened 1990 but first

465

00:24:01,500 --> 00:23:57,580

pulse came up around took 13 years to go

466

00:24:03,570 --> 00:24:01,510

up around the Arctic bed but second the

467

00:24:05,520 --> 00:24:03,580

warmest pulse came up around and did all

468

00:24:10,590 --> 00:24:05,530

the melting 13 years before it gets

469

00:24:13,380 --> 00:24:10,600

diluted and another one just opened when

470

00:24:15,870 --> 00:24:13,390

didn't be Arctic in 2008 a warm pulse

471

00:24:18,800 --> 00:24:15,880

not as warm it's going to take 13 years

472

00:24:21,630 --> 00:24:18,810

it'll be 2021 will be completely gone

473

00:24:24,810 --> 00:24:21,640

2021 actually be pretty much gone maybe

474

00:24:30,390 --> 00:24:24,820

by 2018 so now let's put it all together

475

00:24:33,540 --> 00:24:30,400

on just a couple of slides here what we

476
00:24:34,860 --> 00:24:33,550
have here this is the global warming but

477
00:24:37,550 --> 00:24:34,870
temperatures Earth's temperatures you

478
00:24:41,400 --> 00:24:37,560
know to recall the global warming cycles

479
00:24:44,250 --> 00:24:41,410
this is the running mean value of the

480
00:24:48,360 --> 00:24:44,260
lunar solar procession let's see what

481
00:24:52,670 --> 00:24:48,370
happens when the moon lowers in the sky

482
00:24:57,090 --> 00:24:52,680
gets down to the bottom of the cycle in

483
00:25:00,000 --> 00:24:57,100
2075 the first ten years spike in global

484
00:25:03,600 --> 00:25:00,010
warming over on the right of the cycle

485
00:25:05,680 --> 00:25:03,610
second spike in 1315 you come off the

486
00:25:06,940 --> 00:25:05,690
lunar cycle

487
00:25:09,100 --> 00:25:06,950
look at the temperatures dropped like a

488
00:25:12,129 --> 00:25:09,110

rock global cooling drastic global

489

00:25:14,680 --> 00:25:12,139

cooling next cycle moon comes down

490

00:25:17,080 --> 00:25:14,690

bottom the cycle first peak and global

491

00:25:21,240 --> 00:25:17,090

warming the second peak in global

492

00:25:26,369 --> 00:25:21,250

warming we come off the cycle drastic

493

00:25:34,450 --> 00:25:30,940

1775 come down global warming 1800 comes

494

00:25:37,029 --> 00:25:34,460

off global warming drastic cooling and

495

00:25:39,970 --> 00:25:37,039

I'm gonna talk about this yellow dot

496

00:25:43,450 --> 00:25:39,980

here on the next cycle the year of no

497

00:25:46,990 --> 00:25:43,460

summer I'm the next graphic then our

498

00:25:50,649 --> 00:25:47,000

current cycle 1930 our ten-year pulse

499

00:25:53,230 --> 00:25:50,659

and temperatures ten-year pulse 2008

500

00:25:58,180 --> 00:25:53,240

we're coming off the lunar solar

501
00:26:03,249 --> 00:25:58,190
precession cycle we're gonna be heading

502
00:26:09,129 --> 00:26:03,259
very soon into drastic global cooling my

503
00:26:11,110 --> 00:26:09,139
final slide change on this is applauded

504
00:26:14,919 --> 00:26:11,120
the vei which is the volcanic

505
00:26:17,919 --> 00:26:14,929
explosivity index for volcanoes

506
00:26:22,710 --> 00:26:17,929
coal is up to seven so I plotted five

507
00:26:33,299 --> 00:26:27,549
the yellow ones yellow dots would be be

508
00:26:38,619 --> 00:26:33,309
bei five but white is six and seven and

509
00:26:40,629 --> 00:26:38,629
kind of what you see is back up here you

510
00:26:42,580 --> 00:26:40,639
you don't really see much except as more

511
00:26:44,200 --> 00:26:42,590
in the past four or five hundred years

512
00:26:45,340 --> 00:26:44,210
and some of that's because observations

513
00:26:48,149 --> 00:26:45,350

are better way or more people on earth

514

00:26:50,590 --> 00:26:48,159

and we know the power of what happened

515

00:26:54,009 --> 00:26:50,600

but we want what we want to do is take a

516

00:26:56,830 --> 00:26:54,019

closer look at this we want to see what

517

00:26:58,419 --> 00:26:56,840

happens about the first 20 years of the

518

00:27:00,639 --> 00:26:58,429

drastic global cooling when you head

519

00:27:04,779 --> 00:27:00,649

into global cooling so we're gonna box

520

00:27:08,409 --> 00:27:04,789

this off when we go into global cooling

521

00:27:11,200 --> 00:27:08,419

now the rest of the volcanoes are more

522

00:27:13,480 --> 00:27:11,210

in the deep part of the global cooling

523

00:27:16,869 --> 00:27:13,490

but we want to look at the first 20

524

00:27:18,879 --> 00:27:16,879

years see what's going on because we're

525

00:27:19,480 --> 00:27:18,889

coming up to that so what we're going to

526

00:27:21,010 --> 00:27:19,490

do is Bach

527

00:27:24,400 --> 00:27:21,020

off ones we don't want and take him out

528

00:27:27,610 --> 00:27:24,410

of there now we're we're at the global

529

00:27:31,330 --> 00:27:27,620

cooling cycles and what happens the

530

00:27:35,680 --> 00:27:31,340

first 20 years for for volcanic activity

531

00:27:39,299 --> 00:27:35,690

as we can see there's a nice white dot

532

00:27:41,950 --> 00:27:39,309

nice white dot and volcanoes here but a

533

00:27:44,200 --> 00:27:41,960

four volcanoes here and I don't have it

534

00:27:47,799 --> 00:27:44,210

plotted on here but there's a big white

535

00:27:49,630 --> 00:27:47,809

dot around 950 - a very famous volcano

536

00:27:54,360 --> 00:27:49,640

about 20 years after global cooling

537

00:27:58,090 --> 00:27:54,370

began these are years and those summer

538

00:28:02,110 --> 00:27:58,100

now let's see where this occurs on our

539

00:28:04,000 --> 00:28:02,120

graphic this is our first 20-30 years

540

00:28:08,799 --> 00:28:04,010

ago but cooling and misses where occurs

541

00:28:10,810 --> 00:28:08,809

on the lunar solar cycle the next one

542

00:28:15,040 --> 00:28:10,820

you can see it's pretty much the same

543

00:28:19,360 --> 00:28:15,050

point on the cycle same point on the

544

00:28:22,150 --> 00:28:19,370

cycle same point on the cycle and here

545

00:28:27,130 --> 00:28:22,160

we are now this is what we're heading

546

00:28:29,380 --> 00:28:27,140

into this is my forecast dramatic global

547

00:28:34,210 --> 00:28:29,390

cooling with at least three volcanoes

548

00:28:37,480 --> 00:28:34,220

coming up before 2030 and one of them

549

00:28:40,230 --> 00:28:37,490

very likely being a seven on the scale

550

00:28:46,060 --> 00:28:40,240

and a high risk of a year of no summer

551
00:28:47,460 --> 00:28:46,070
back in the year of no summer in 1815

552
00:28:54,130 --> 00:28:47,470
right here

553
00:28:57,280 --> 00:28:54,140
that was tambora a seven in 1815 that

554
00:29:02,710 --> 00:28:57,290
was in Indonesia in 1816 a year no

555
00:29:06,250 --> 00:29:02,720
summer New England lost 75% of their

556
00:29:08,320 --> 00:29:06,260
corn crop killing Frost every month

557
00:29:12,480 --> 00:29:08,330
month of the summer all the way down to

558
00:29:16,180 --> 00:29:12,490
Virginia Ison small ponds and streams in

559
00:29:21,820 --> 00:29:16,190
northern Pennsylvania that's in middle

560
00:29:25,960 --> 00:29:21,830
of the summer Europe potato cropped

561
00:29:29,380 --> 00:29:25,970
losses and I believe the estimate was at

562
00:29:32,580 --> 00:29:29,390
1/4 of Europe perished during the next

563
00:29:37,560 --> 00:29:32,590

several years through

564

00:29:41,230 --> 00:29:37,570

disease lack of food and civil unrest

565

00:29:46,620 --> 00:29:41,240

northern China lost most of a rice crop

566

00:29:50,710 --> 00:29:46,630

and this is what is heading up for us

567

00:29:52,950 --> 00:29:50,720

very soon and there's a gentleman I've

568

00:29:55,840 --> 00:29:52,960

been doing some joint talks with he's

569

00:30:01,360 --> 00:29:55,850

John Casey he wrote the book cold Sun he

570

00:30:02,950 --> 00:30:01,370

uses sunspots and they just started

571

00:30:06,570 --> 00:30:02,960

corporation called the International

572

00:30:09,910 --> 00:30:06,580

earthquake and volcano prediction center

573

00:30:13,500 --> 00:30:09,920

what they're doing is monitoring three

574

00:30:16,980 --> 00:30:13,510

very big volcanic vents around the globe

575

00:30:19,780 --> 00:30:16,990

any one of the three are ready to blow

576

00:30:22,740 --> 00:30:19,790

any one of the three have a potential as

577

00:30:25,210 --> 00:30:22,750

being as big as Tambora in 1815

578

00:30:27,640 --> 00:30:25,220

now volcanoes aren't usually a huge

579

00:30:31,360 --> 00:30:27,650

problem until you put it in conjunction

580

00:30:32,620 --> 00:30:31,370

with extreme rapid global cooling when

581

00:30:36,160 --> 00:30:32,630

you get the combination of the two

582

00:30:39,070 --> 00:30:36,170

you're in for trouble with that note

583

00:30:41,510 --> 00:30:39,080

I'll end it right here and we can take

584

00:30:41,520 --> 00:30:44,970

[Applause]

585

00:30:47,910 --> 00:30:46,830

thank you David as before what we're

586

00:30:49,740 --> 00:30:47,920

gonna do is we're gonna put the

587

00:31:03,930 --> 00:30:49,750

microphone here and you can line up and

588

00:31:08,490 --> 00:31:03,940

ask questions of David David thanks I'm

589

00:31:12,470 --> 00:31:08,500

Chuck clear yes Chuck about five years

590

00:31:17,510 --> 00:31:12,480

ago the International panel on climate

591

00:31:22,160 --> 00:31:17,520

control issue the cautious statement

592

00:31:28,230 --> 00:31:22,170

that there was about a 15% probability

593

00:31:31,110 --> 00:31:28,240

that global warming was human caused can

594

00:31:34,020 --> 00:31:31,120

you comment on that assessment they said

595

00:31:37,800 --> 00:31:34,030

a 15 percent chance or 95 I think it was

596

00:31:42,770 --> 00:31:37,810

15 percent I think it was 95 quite low

597

00:31:47,130 --> 00:31:42,780

as I recall I if I didn't hear that one

598

00:31:49,470 --> 00:31:47,140

what I did hear about three four or five

599

00:31:50,940 --> 00:31:49,480

years ago was their forecast wasn't

600

00:31:52,950 --> 00:31:50,950

really working out for temperatures to

601
00:31:54,510 --> 00:31:52,960
continue increasing steady they the

602
00:31:57,600 --> 00:31:54,520
leveled off there in past ten years

603
00:32:00,120 --> 00:31:57,610
so they revised their forecast and said

604
00:32:02,490 --> 00:32:00,130
well we now see some natural cycles so

605
00:32:03,750 --> 00:32:02,500
what we're going to do is we're going to

606
00:32:06,750 --> 00:32:03,760
keep the temperatures steady for the

607
00:32:08,640 --> 00:32:06,760
next 10 years and then rapid global

608
00:32:12,360 --> 00:32:08,650
warming what they did was buy time for

609
00:32:14,300 --> 00:32:12,370
ten years they just recognized the cycle

610
00:32:18,720 --> 00:32:14,310
for only ten years we're going into a

611
00:32:20,190 --> 00:32:18,730
200 year cycle not a ten year cycle so I

612
00:32:21,900 --> 00:32:20,200
didn't hear your forecast the only

613
00:32:26,390 --> 00:32:21,910

forecast I've been hearing is ninety

614

00:32:32,250 --> 00:32:28,830

fascinating presentation thank you I'm

615

00:32:34,590 --> 00:32:32,260

Bob wood you alluded briefly to some

616

00:32:38,280 --> 00:32:34,600

work on sunspot correlation I wonder if

617

00:32:39,960 --> 00:32:38,290

you could elaborate on who that is well

618

00:32:44,910 --> 00:32:39,970

that was John Casey author of the book

619

00:32:49,580 --> 00:32:44,920

cold Sun he used to work for I believe

620

00:32:52,620 --> 00:32:49,590

it was NASA many scientists around the

621

00:32:55,290 --> 00:32:52,630

world including NASA know but we're

622

00:32:57,660 --> 00:32:55,300

going to a Monda mini minimum in sunspot

623

00:32:58,560 --> 00:32:57,670

activity which means the Sun is going to

624

00:33:02,250 --> 00:32:58,570

be a little bit cold

625

00:33:06,330 --> 00:33:02,260

which means cooler temperatures global

626
00:33:09,270 --> 00:33:06,340
cooling well he approached the forecast

627
00:33:11,910 --> 00:33:09,280
with the sunspot activity I approached

628
00:33:14,460 --> 00:33:11,920
it with the gravitational aspect of it

629
00:33:16,280 --> 00:33:14,470
which would also have interruptions in

630
00:33:19,550 --> 00:33:16,290
the electromagnetic field

631
00:33:22,200 --> 00:33:19,560
so although we used a little bit

632
00:33:24,540 --> 00:33:22,210
different techniques to get our forecast

633
00:33:27,510 --> 00:33:24,550
we came to the same conclusion we came

634
00:33:30,450 --> 00:33:27,520
to just about almost the exact date of

635
00:33:33,630 --> 00:33:30,460
going into global cooling and I'm not

636
00:33:36,210 --> 00:33:33,640
the only one I've known miss since 2007

637
00:33:37,770 --> 00:33:36,220
when I put out my first ebook but I was

638
00:33:39,570 --> 00:33:37,780

afraid to speak up much about it because

639

00:33:41,730 --> 00:33:39,580

I wasn't the only one talking about it

640

00:33:43,770 --> 00:33:41,740

so I was quiet than that when I met up

641

00:33:45,510 --> 00:33:43,780

with John Casey this past winter and we

642

00:33:48,540 --> 00:33:45,520

did joint talks now I'm coming out and

643

00:33:49,950 --> 00:33:48,550

talking about the volcanoes and and the

644

00:33:51,270 --> 00:33:49,960

drastic global cooling them it's coming

645

00:33:55,620 --> 00:33:51,280

because a lot of people are on the same

646

00:33:58,830 --> 00:33:55,630

page ritual we have you here the

647

00:34:01,370 --> 00:33:58,840

opportunity to plot polar reversals in

648

00:34:04,410 --> 00:34:01,380

relation to these cycles no I have not

649

00:34:06,480 --> 00:34:04,420

it'd be fascinating to do it I'd love to

650

00:34:09,090 --> 00:34:06,490

do it if you can get me information I

651
00:34:14,520 --> 00:34:09,100
certainly will take no time at all I

652
00:34:16,740 --> 00:34:14,530
have the model this model or what I'm

653
00:34:20,220 --> 00:34:16,750
showing you on the cycles I've spun off

654
00:34:24,030 --> 00:34:20,230
many forecast models on this I the EI

655
00:34:29,070 --> 00:34:24,040
Nino correlates to it I used it for

656
00:34:31,230 --> 00:34:29,080
hurricane forecasting and and just

657
00:34:34,740 --> 00:34:31,240
recently in past year I started I did a

658
00:34:36,870 --> 00:34:34,750
model for California earthquakes I can

659
00:34:38,669 --> 00:34:36,880
track be california earthquakes for the

660
00:34:41,070 --> 00:34:38,679
past 200 years right up through my

661
00:34:43,440 --> 00:34:41,080
models and on my website you could go to

662
00:34:46,620 --> 00:34:43,450
my website I have a California forecasts

663
00:34:48,810 --> 00:34:46,630

on there free of charge I go to the

664

00:34:51,720 --> 00:34:48,820

earthquake section my forecast for the

665

00:34:56,070 --> 00:34:51,730

big one coming up you're about a year

666

00:34:58,170 --> 00:34:56,080

from this winter that's that's the the

667

00:34:59,610 --> 00:34:58,180

biggest part the strongest part of a

668

00:35:01,500 --> 00:34:59,620

window we're going into the window now

669

00:35:03,230 --> 00:35:01,510

for the strong earthquake but it's going

670

00:35:09,510 --> 00:35:03,240

to be somewhere between December and

671

00:35:10,800 --> 00:35:09,520

February of 2013 14 could you elucidate

672

00:35:14,550 --> 00:35:10,810

a bit more on

673

00:35:18,660 --> 00:35:14,560

the dire effects presumed dire effects

674

00:35:23,790 --> 00:35:18,670

of cooling plus earthquake or volcanic

675

00:35:26,730 --> 00:35:23,800

eruption well well fix our first of all

676
00:35:29,310 --> 00:35:26,740
we know we're gonna have probably three

677
00:35:32,610 --> 00:35:29,320
big well you said earthquakes not

678
00:35:35,430 --> 00:35:32,620
volcanoes right volcanoes we know we're

679
00:35:37,710 --> 00:35:35,440
gonna have probably three big volcanoes

680
00:35:40,080 --> 00:35:37,720
coming up prior to 2030 because they're

681
00:35:43,440 --> 00:35:40,090
already monitoring three vents but it

682
00:35:50,900 --> 00:35:43,450
ready to go what happens on a volcano

683
00:35:55,980 --> 00:35:53,880
the volcano and checks a lot of sulfur

684
00:35:59,520 --> 00:35:55,990
into the upper atmosphere it's the

685
00:36:01,800 --> 00:35:59,530
sulfur gets up in yet upper atmosphere

686
00:36:05,730 --> 00:36:01,810
mixes water and makes sulfates sulfates

687
00:36:08,160 --> 00:36:05,740
is highly reflective so the incoming

688
00:36:12,530 --> 00:36:08,170

solar radiation is reflected back to

689

00:36:17,400 --> 00:36:12,540

space and this is why you're 1816 after

690

00:36:19,320 --> 00:36:17,410

the volcano was such a cold year because

691

00:36:24,420 --> 00:36:19,330

of people reflectivity of the solar

692

00:36:26,190 --> 00:36:24,430

irradiation and this that's what we're

693

00:36:28,980 --> 00:36:26,200

looking at and it's the combination of

694

00:36:30,570 --> 00:36:28,990

when you have your first twenty years of

695

00:36:33,630 --> 00:36:30,580

global cooling your cooling off so

696

00:36:35,550 --> 00:36:33,640

rapidly and you get a joke with a huge

697

00:36:38,810 --> 00:36:35,560

volcano on top of it and you just jolt

698

00:36:44,460 --> 00:36:42,420

out and I should point out you can have

699

00:36:47,940 --> 00:36:44,470

very strong volcanoes outside of the

700

00:36:49,500 --> 00:36:47,950

global cooling the rapid one and it you

701
00:36:54,330 --> 00:36:49,510
don't have the same effects because you

702
00:36:55,920 --> 00:36:54,340
don't have the combination yes sir my

703
00:36:57,870 --> 00:36:55,930
name is Lou Marin kovitch I'm a

704
00:37:00,420 --> 00:36:57,880
geologist and I thought I'd mentioned

705
00:37:04,200 --> 00:37:00,430
that Milankovitch cycles as you know are

706
00:37:06,870 --> 00:37:04,210
recorded in ocean sediments and my

707
00:37:11,730 --> 00:37:06,880
friends who study modern sedimentation

708
00:37:15,330 --> 00:37:11,740
say that the Milankovitch cycle is in a

709
00:37:17,230 --> 00:37:15,340
where it's going into a cooling phase so

710
00:37:20,180 --> 00:37:17,240
it verifies your

711
00:37:21,940 --> 00:37:20,190
well we definitely definitely are going

712
00:37:24,170 --> 00:37:21,950
into cooling phase one thing is work

713
00:37:26,960 --> 00:37:24,180

7,000 years ago we were a peek at this

714

00:37:29,329 --> 00:37:26,970

into glacial period when we had 50% less

715

00:37:30,740 --> 00:37:29,339

ice in the Arctic that was our the peak

716

00:37:32,289 --> 00:37:30,750

of a warm period we're actually starting

717

00:37:35,029 --> 00:37:32,299

to cool off towards the next ice age

718

00:37:37,670 --> 00:37:35,039

although that's 3040 thousand years away

719

00:37:39,529 --> 00:37:37,680

but each global warming cycle started

720

00:37:42,049 --> 00:37:39,539

getting cool cool and cooler and and

721

00:37:43,970 --> 00:37:42,059

maybe maybe we should pray that carbon

722

00:37:55,140 --> 00:37:43,980

dioxide causes warming because we will

723

00:38:00,930 --> 00:37:58,300

some of these volcanoes go off they

724

00:38:05,290 --> 00:38:00,940

bumped the earth a little that changed

725

00:38:12,550 --> 00:38:05,300

the orbit of the earth somewhat and what

726

00:38:14,890 --> 00:38:12,560

kind of I don't know as if it if it

727

00:38:17,710 --> 00:38:14,900

bumps the earth which it may like I said

728

00:38:19,030 --> 00:38:17,720

very slight slight it would come right

729

00:38:20,970 --> 00:38:19,040

back anyway

730

00:38:26,830 --> 00:38:20,980

but they can probably detect a slight

731

00:38:29,230 --> 00:38:26,840

quiver that would not have a change at

732

00:38:31,150 --> 00:38:29,240

all because any any change in the accent

733

00:38:34,900 --> 00:38:31,160

axis would have been very very very

734

00:38:38,410 --> 00:38:34,910

slight so we're talking about twenty

735

00:38:40,990 --> 00:38:38,420

three thousand year cycle or the tilde B

736

00:38:43,960 --> 00:38:41,000

earth changes from what twenty-three and

737

00:38:46,300 --> 00:38:43,970

a half degrees down to about twenty one

738

00:38:49,810 --> 00:38:46,310

degrees somewhere around there a

739

00:38:51,370 --> 00:38:49,820

twenty-three thousand year cycle and you

740

00:38:54,340 --> 00:38:51,380

know that's a change of about three

741

00:38:56,830 --> 00:38:54,350

degrees and if you get a minor change

742

00:39:02,520 --> 00:38:56,840

it's just a fraction of the hundredth of

743

00:39:10,210 --> 00:39:08,470

I'm sure it would I'm sure I don't have

744

00:39:12,490 --> 00:39:10,220

the concrete answer for you on that but

745

00:39:19,220 --> 00:39:12,500

I would does I would have to assume it