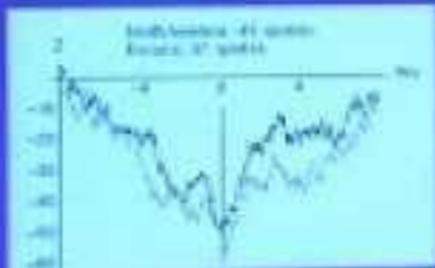
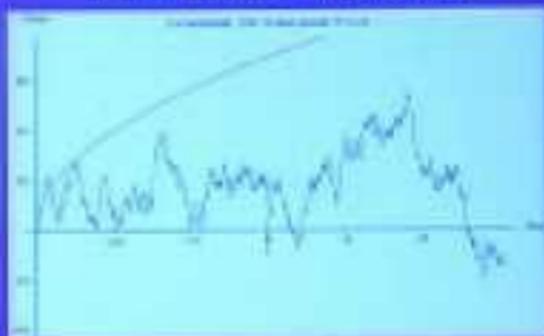


All Earthquakes, Richter 6 or More Cumulative Deviation of Covariance

Quakes on Land +/- 30 hours



Controls (no humans affected)
Ocean Quakes +/- 30 hours



Same trend, independent subsets
Begin early ~ 8 hours before quake

1
00:00:03,990 --> 00:00:01,590
into the

2
00:00:07,110 --> 00:00:04,000
to the um events

3
00:00:09,030 --> 00:00:07,120
but that response has a time course it

4
00:00:10,950 --> 00:00:09,040
appears i mean if you read this graph

5
00:00:13,669 --> 00:00:10,960
and interpret it what it means is that

6
00:00:15,910 --> 00:00:13,679
the real interesting time period is

7
00:00:18,630 --> 00:00:15,920
about one or two hours that means

8
00:00:21,109 --> 00:00:18,640
something like the um

9
00:00:22,950 --> 00:00:21,119
moment for a global consciousness is an

10
00:00:25,670 --> 00:00:22,960
hour or two long

11
00:00:27,349 --> 00:00:25,680
in in some sense there's interesting

12
00:00:30,630 --> 00:00:27,359
questions about what's happening at the

13
00:00:33,190 --> 00:00:30,640

beginning we think this may mean um that

14

00:00:35,670 --> 00:00:33,200

we're in this uh jog at the beginning of

15

00:00:38,709 --> 00:00:35,680

the graph may mean that the correlation

16

00:00:39,590 --> 00:00:38,719

the covariance measure lags

17

00:00:42,310 --> 00:00:39,600

the

18

00:00:44,709 --> 00:00:42,320

net network variance measure but we've

19

00:00:46,709 --> 00:00:44,719

got a lot more work to do this is a

20

00:00:48,709 --> 00:00:46,719

complicated slide we do a weighted

21

00:00:51,830 --> 00:00:48,719

regression which you can see in the

22

00:00:53,110 --> 00:00:51,840

green straight line in both graphs it's

23

00:00:57,750 --> 00:00:53,120

significant

24

00:01:00,229 --> 00:00:57,760

and what this is means is that the

25

00:01:02,869 --> 00:01:00,239

measures which are driven by this a

26

00:01:04,149 --> 00:01:02,879

correlation between our paris pairs of

27

00:01:05,990 --> 00:01:04,159

rag

28

00:01:07,510 --> 00:01:06,000

is stronger when the pairs are close to

29

00:01:11,190 --> 00:01:07,520

each other than it is when they're far

30

00:01:13,429 --> 00:01:11,200

apart so we actually have a distance

31

00:01:14,230 --> 00:01:13,439

uh indication this is just a picture of

32

00:01:14,950 --> 00:01:14,240

that

33

00:01:19,670 --> 00:01:14,960

the

34

00:01:21,910 --> 00:01:19,680

relatively short distance compared to a

35

00:01:24,870 --> 00:01:21,920

long distance another way to look at the

36

00:01:27,109 --> 00:01:24,880

same data the blue curves

37

00:01:29,910 --> 00:01:27,119

show the data

38

00:01:31,030 --> 00:01:29,920

in each of those two measures

39

00:01:33,350 --> 00:01:31,040

for

40

00:01:36,469 --> 00:01:33,360

pair separations less than 8 000

41

00:01:38,310 --> 00:01:36,479

kilometers and the red data for

42

00:01:39,429 --> 00:01:38,320

pair separations greater than 8 000

43

00:01:41,749 --> 00:01:39,439

kilometers

44

00:01:44,390 --> 00:01:41,759

very interesting and to me surprising

45

00:01:48,149 --> 00:01:44,400

because my intuition going in was that

46

00:01:49,670 --> 00:01:48,159

we had a truly non-local phenomenon

47

00:01:52,389 --> 00:01:49,680

so we can

48

00:01:54,630 --> 00:01:52,399

easily or relatively easily categorize a

49

00:01:56,789 --> 00:01:54,640

lot of the events into things like

50

00:01:59,030 --> 00:01:56,799

terror political events natural

51

00:02:02,310 --> 00:01:59,040

disasters and so on

52

00:02:03,990 --> 00:02:02,320

collapse this to a smaller set which is

53

00:02:06,950 --> 00:02:04,000

makes it easier to read

54

00:02:08,469 --> 00:02:06,960

what's shown here is a group

55

00:02:10,949 --> 00:02:08,479

um terror

56

00:02:13,430 --> 00:02:10,959

events and partisan events where

57

00:02:15,190 --> 00:02:13,440

the stimulus to

58

00:02:17,030 --> 00:02:15,200

have the same same emotions comes from

59

00:02:19,190 --> 00:02:17,040

the outside in a sense

60

00:02:21,430 --> 00:02:19,200

and compared with something where the

61

00:02:23,190 --> 00:02:21,440

meditation where the

62

00:02:24,229 --> 00:02:23,200

the stimulus is basically kind of

63

00:02:27,030 --> 00:02:24,239

internal

64

00:02:28,390 --> 00:02:27,040

and what we see is that the network

65

00:02:32,390 --> 00:02:28,400

variance

66

00:02:33,430 --> 00:02:32,400

blue column is much stronger than the

67

00:02:35,830 --> 00:02:33,440

um

68

00:02:37,990 --> 00:02:35,840

than the response from in the covaria

69

00:02:40,790 --> 00:02:38,000

covariance measure

70

00:02:42,949 --> 00:02:40,800

for the these terror and partisan events

71

00:02:45,830 --> 00:02:42,959

we have a lot more work to do to really

72

00:02:46,949 --> 00:02:45,840

understand this but it it looks like

73

00:02:48,470 --> 00:02:46,959

um well

74

00:02:50,309 --> 00:02:48,480

literally that the two different kinds

75

00:02:52,550 --> 00:02:50,319

of independent measures are actually

76

00:02:54,229 --> 00:02:52,560

responsive to different kinds of things

77

00:02:55,750 --> 00:02:54,239

this is just an analysis of variance

78

00:02:57,110 --> 00:02:55,760

showing the same

79

00:02:59,509 --> 00:02:57,120

data

80

00:03:01,190 --> 00:02:59,519

that there is an interaction between the

81

00:03:02,790 --> 00:03:01,200

type of statistic we use and the

82

00:03:05,270 --> 00:03:02,800

category that they're in

83

00:03:07,350 --> 00:03:05,280

by in several different groupings we see

84

00:03:08,309 --> 00:03:07,360

this that it's there's a significant

85

00:03:10,710 --> 00:03:08,319

outcome

86

00:03:13,110 --> 00:03:10,720

so if there is consciousness driving

87

00:03:15,030 --> 00:03:13,120

what our system does one might ask what

88

00:03:17,110 --> 00:03:15,040

happens if people are awake versus

89

00:03:19,270 --> 00:03:17,120

asleep we might imagine there's a little

90

00:03:21,589 --> 00:03:19,280

more tendency while people are awake

91

00:03:22,710 --> 00:03:21,599

what this shows is in the center

92

00:03:25,910 --> 00:03:22,720

um the

93

00:03:26,630 --> 00:03:25,920

a real 24-hour day compared with days

94

00:03:28,550 --> 00:03:26,640

there

95

00:03:31,190 --> 00:03:28,560

that are minutes longer or minutes

96

00:03:34,229 --> 00:03:31,200

shorter there's a pretty uh impressive

97

00:03:35,509 --> 00:03:34,239

spike it's actually only 16 to 1 odds

98

00:03:38,229 --> 00:03:35,519

but it's

99

00:03:38,949 --> 00:03:38,239

it suggests that there really is a kind

100

00:03:41,270 --> 00:03:38,959

of

101

00:03:44,309 --> 00:03:41,280

consciousness pressure on the data

102

00:03:48,390 --> 00:03:46,390

the long there's the blue curve show a

103

00:03:50,710 --> 00:03:48,400

long long term trend in our data which

104

00:03:51,990 --> 00:03:50,720

is in a way kind of mysterious why would

105

00:03:53,750 --> 00:03:52,000

this happen

106

00:03:55,750 --> 00:03:53,760

um we

107

00:03:57,910 --> 00:03:55,760

look for some sort of external correlate

108

00:04:01,190 --> 00:03:57,920

and peter decided to

109

00:04:02,949 --> 00:04:01,200

gather all kinds of presidential

110

00:04:04,550 --> 00:04:02,959

all kinds of polling data

111

00:04:06,630 --> 00:04:04,560

and looked in particular at the

112

00:04:08,390 --> 00:04:06,640

presidential approval ratings

113

00:04:10,789 --> 00:04:08,400

which as you can see in the left-hand

114

00:04:12,630 --> 00:04:10,799

graph even in the raw form have a fairly

115

00:04:13,670 --> 00:04:12,640

similar kind of

116

00:04:17,030 --> 00:04:13,680

trend

117

00:04:19,349 --> 00:04:17,040

when we do a simple model to fit the

118

00:04:20,229 --> 00:04:19,359

presidential approval data to the

119

00:04:21,110 --> 00:04:20,239

um

120

00:04:23,270 --> 00:04:21,120

to the

121

00:04:26,710 --> 00:04:23,280

global consciousness and network

122

00:04:28,950 --> 00:04:26,720

variants it's a very striking fit

123

00:04:31,110 --> 00:04:28,960

no proof of a

124

00:04:34,710 --> 00:04:31,120

a causal result okay

125

00:04:36,230 --> 00:04:34,720

this is my last uh slide there there is

126
00:04:38,550 --> 00:04:36,240
um in

127
00:04:41,030 --> 00:04:38,560
in in the last

128
00:04:45,189 --> 00:04:41,040
10 years or nine years

129
00:04:47,270 --> 00:04:45,199
some 600 earthquakes in the world or 700

130
00:04:49,670 --> 00:04:47,280
with richter magnitude 7 or greater in

131
00:04:51,350 --> 00:04:49,680
other words damaging quakes

132
00:04:53,990 --> 00:04:51,360
about

133
00:04:55,990 --> 00:04:54,000
100 of those have been on land where

134
00:04:57,430 --> 00:04:56,000
they matter to people and the rest are

135
00:05:00,150 --> 00:04:57,440
in the ocean so

136
00:05:02,629 --> 00:05:00,160
this graph shows a strong pattern when

137
00:05:04,710 --> 00:05:02,639
they're on the land and not much

138
00:05:06,070 --> 00:05:04,720

of a pattern at all when these quakes

139

00:05:07,909 --> 00:05:06,080

occur in the ocean

140

00:05:09,430 --> 00:05:07,919

what's perhaps more interesting in a

141

00:05:11,990 --> 00:05:09,440

certain sense and again

142

00:05:14,870 --> 00:05:12,000

a temporal structural kind of thing

143

00:05:16,469 --> 00:05:14,880

this central portion is magnified here

144

00:05:18,790 --> 00:05:16,479

and actually separated into two

145

00:05:21,670 --> 00:05:18,800

independent subsets both of which show

146

00:05:24,629 --> 00:05:21,680

the same pattern and that pattern

147

00:05:25,510 --> 00:05:24,639

begins about eight hours before

148

00:05:27,110 --> 00:05:25,520

the

149

00:05:29,029 --> 00:05:27,120

minimum point

150

00:05:29,990 --> 00:05:29,039

which is at the time of the quake

151
00:05:31,430 --> 00:05:30,000
so

152
00:05:32,790 --> 00:05:31,440
okay

153
00:05:34,870 --> 00:05:32,800
last point

154
00:05:37,990 --> 00:05:34,880
um

155
00:05:40,790 --> 00:05:38,000
oh this is the button

156
00:05:43,430 --> 00:05:40,800
the fact that only where that the only

157
00:05:46,310 --> 00:05:43,440
the quakes which affect people

158
00:05:48,310 --> 00:05:46,320
uh show any pattern suggest i think

159
00:05:51,029 --> 00:05:48,320
strongly that consciousness definitely

160
00:05:53,270 --> 00:05:51,039
is involved lots of other things do

161
00:05:55,189 --> 00:05:53,280
there's even a suggestion of premonition

162
00:05:57,909 --> 00:05:55,199
but more work to do to discover where

163
00:06:00,230 --> 00:05:57,919

there's any reality to that

164

00:06:06,629 --> 00:06:00,240

thank you very much this is the

165

00:06:06,639 --> 00:06:10,790

thank you roger

166

00:06:14,629 --> 00:06:12,710

i just wanted to ask because i have a

167

00:06:17,110 --> 00:06:14,639

son who lives in los angeles could you

168

00:06:19,110 --> 00:06:17,120

please call me if that if you see that

169

00:06:21,110 --> 00:06:19,120

happening

170

00:06:23,590 --> 00:06:21,120

one of the uh

171

00:06:25,909 --> 00:06:23,600

suggestions that the data give is that

172

00:06:28,790 --> 00:06:25,919

we could in principle predict things the

173

00:06:32,230 --> 00:06:28,800

trouble is that if we see a

174

00:06:33,670 --> 00:06:32,240

strange change in the data

175

00:06:35,110 --> 00:06:33,680

we don't know much more than that the

176

00:06:36,469 --> 00:06:35,120

data are responding to something we

177

00:06:39,110 --> 00:06:36,479

don't know where whether it's los

178

00:06:41,590 --> 00:06:39,120

angeles or maybe china

179

00:06:44,710 --> 00:06:41,600

and uh we don't know when exactly it

180

00:06:47,510 --> 00:06:44,720

will be either but it's a good thought

181

00:06:49,029 --> 00:06:47,520

roger wonderful update beautiful data

182

00:06:51,749 --> 00:06:49,039

question about this

183

00:06:53,749 --> 00:06:51,759

this possible distance effect

184

00:06:55,189 --> 00:06:53,759

um if you for example look at the

185

00:06:57,270 --> 00:06:55,199

earthquake data

186

00:06:59,510 --> 00:06:57,280

your earthquakes are very physically

187

00:07:01,110 --> 00:06:59,520

localized and you literally because

188

00:07:04,469 --> 00:07:01,120

you've got a span all around the world

189

00:07:06,790 --> 00:07:04,479

you have you have eggs or regs that are

190

00:07:09,270 --> 00:07:06,800

quite some distance from a given quake

191

00:07:11,510 --> 00:07:09,280

if you plot the data as a function of

192

00:07:13,670 --> 00:07:11,520

distance from a quake averaging over all

193

00:07:15,350 --> 00:07:13,680

the quakes for particularly obviously

194

00:07:17,189 --> 00:07:15,360

the ones that are on land

195

00:07:19,270 --> 00:07:17,199

is there a distance effect

196

00:07:21,350 --> 00:07:19,280

there is a small distance effect but the

197

00:07:22,309 --> 00:07:21,360

one that we know most about has to do

198

00:07:25,110 --> 00:07:22,319

with the

199

00:07:27,749 --> 00:07:25,120

distance between pairs of regs our pair

200

00:07:28,710 --> 00:07:27,759

the average pair correlation is greater

201
00:07:31,189 --> 00:07:28,720
for

202
00:07:33,990 --> 00:07:31,199
ergs that are close to each other we do

203
00:07:35,430 --> 00:07:34,000
have also already a suggestion

204
00:07:37,510 --> 00:07:35,440
some uh

205
00:07:38,950 --> 00:07:37,520
of an answer to your question and it is

206
00:07:41,670 --> 00:07:38,960
positive there is

207
00:07:43,670 --> 00:07:41,680
a drop-off of effect

208
00:07:46,309 --> 00:07:43,680
with regard with regard to what appears

209
00:07:49,110 --> 00:07:46,319
to be the focal point of the event

210
00:07:49,120 --> 00:07:52,390
there's one

211
00:07:57,670 --> 00:07:56,230
is it possible to have a dedicated reg

212
00:08:00,710 --> 00:07:57,680
for a specific

213
00:08:01,909 --> 00:08:00,720

area and somehow in the intentionality

214

00:08:03,830 --> 00:08:01,919

says

215

00:08:07,110 --> 00:08:03,840

however you level or think of

216

00:08:10,230 --> 00:08:07,120

intentionality you greg will only ever

217

00:08:11,589 --> 00:08:10,240

respond to anything from that specific

218

00:08:14,710 --> 00:08:11,599

spot

219

00:08:16,390 --> 00:08:14,720

or event style like an earthquake and

220

00:08:18,309 --> 00:08:16,400

nothing else

221

00:08:19,909 --> 00:08:18,319

from the intentions you want to put on

222

00:08:22,309 --> 00:08:19,919

this do you think that's

223

00:08:25,110 --> 00:08:22,319

conceptually possible

224

00:08:27,510 --> 00:08:25,120

it given the nature of the meeting and

225

00:08:29,589 --> 00:08:27,520

the the content of the talks we've been

226

00:08:32,149 --> 00:08:29,599

listening to i'm inclined to say

227

00:08:35,190 --> 00:08:32,159

anything is possible

228

00:08:36,949 --> 00:08:35,200

but uh more seriously i i think the in

229

00:08:38,949 --> 00:08:36,959

the nature of the question that we ask

230

00:08:41,430 --> 00:08:38,959

is very important and basically that's

231

00:08:42,230 --> 00:08:41,440

what you're talking about if we specify

232

00:08:46,150 --> 00:08:42,240

the

233

00:08:46,949 --> 00:08:46,160

task so to speak or if we task an reg

234

00:08:50,150 --> 00:08:46,959

it's

235

00:08:54,710 --> 00:08:50,160

will

236

00:08:59,269 --> 00:08:57,190

you could but uh it wouldn't we wouldn't

237

00:09:01,269 --> 00:08:59,279

be able to use the same uh

238

00:09:03,269 --> 00:09:01,279

you know material as we have here

239

00:09:05,829 --> 00:09:03,279

because we're talking about pairwise

240

00:09:07,590 --> 00:09:05,839

correlations it really is a

241

00:09:08,389 --> 00:09:07,600

global uh

242

00:09:10,150 --> 00:09:08,399

response

243

00:09:12,630 --> 00:09:10,160

we don't know how deep that correlation

244

00:09:14,470 --> 00:09:12,640

structure goes but at least the major

245

00:09:15,269 --> 00:09:14,480

stuff is driven by

246

00:09:18,389 --> 00:09:15,279

inter

247

00:09:20,870 --> 00:09:18,399

reg correlations

248

00:09:22,389 --> 00:09:20,880

and have you done any

249

00:09:24,310 --> 00:09:22,399

analysis of

250

00:09:27,030 --> 00:09:24,320

as opposed to distance cultural

251

00:09:28,949 --> 00:09:27,040

connection like if if a culture feels

252

00:09:31,509 --> 00:09:28,959

more connected to where an event happens

253

00:09:34,389 --> 00:09:31,519

is their response bigger

254

00:09:36,070 --> 00:09:34,399

i think i can answer in the affirmative

255

00:09:37,509 --> 00:09:36,080

we haven't done very much of that but

256

00:09:39,350 --> 00:09:37,519

once in a while there'll be something

257

00:09:41,670 --> 00:09:39,360

well for example we look at political

258

00:09:43,350 --> 00:09:41,680

events which and more often than not

259

00:09:45,509 --> 00:09:43,360

they're u.s

260

00:09:46,630 --> 00:09:45,519

based political events

261

00:09:47,509 --> 00:09:46,640

and

262

00:09:50,470 --> 00:09:47,519

we look

263

00:09:52,150 --> 00:09:50,480

this is usually exploratory not formal

264

00:09:54,150 --> 00:09:52,160

the formal is always asking about the

265

00:09:55,829 --> 00:09:54,160

whole network but if we look at the

266

00:09:57,430 --> 00:09:55,839

local regs

267

00:09:58,790 --> 00:09:57,440

for to that