

1
00:00:00,000 --> 00:00:07,589
and to the to the events but that

2
00:00:04,740 --> 00:00:09,210
response has a time course it appears I

3
00:00:07,589 --> 00:00:11,130
mean if you read this graph and

4
00:00:09,210 --> 00:00:13,799
interpret it what it means is that the

5
00:00:11,130 --> 00:00:16,350
real interesting time period is about

6
00:00:13,798 --> 00:00:20,579
one or two hours that means something

7
00:00:16,350 --> 00:00:24,240
like the moment for global consciousness

8
00:00:20,579 --> 00:00:26,459
is an hour or two long in some sense

9
00:00:24,239 --> 00:00:28,409
there's interesting questions about

10
00:00:26,460 --> 00:00:31,650
what's happening at the beginning we

11
00:00:28,410 --> 00:00:34,320
think this may mean that we're in this

12
00:00:31,649 --> 00:00:36,869
jog at the beginning of the graph may

13
00:00:34,320 --> 00:00:40,859
mean that the correlation the covariance

14
00:00:36,869 --> 00:00:43,378
measure lags the network variance

15
00:00:40,859 --> 00:00:46,289
measure but we've got a lot more work to

16
00:00:43,378 --> 00:00:48,509
do this is a complicated slide we do a

17
00:00:46,289 --> 00:00:50,579
weighted regression which you can see in

18
00:00:48,509 --> 00:00:55,558
the green straight line in both graph

19
00:00:50,579 --> 00:00:59,280
it's significant and what this means is

20
00:00:55,558 --> 00:01:02,669
that the measures which are driven by

21
00:00:59,280 --> 00:01:05,640
this correlation between our pairs pairs

22
00:01:02,670 --> 00:01:07,140
of re GS is stronger when the pairs are

23
00:01:05,640 --> 00:01:09,090
close to each other than it is when

24
00:01:07,140 --> 00:01:12,960
they're far apart so we actually have a

25
00:01:09,090 --> 00:01:16,740
distance indication this is just a

26
00:01:12,959 --> 00:01:18,559
picture of that the on the left here we

27
00:01:16,739 --> 00:01:21,478
have a short relatively short distance

28
00:01:18,560 --> 00:01:24,170
compared to long distance another way to

29

00:01:21,478 --> 00:01:28,319
look at the same data the blue curves

30
00:01:24,170 --> 00:01:32,849
show the data in each of those two

31
00:01:28,319 --> 00:01:34,828
measures for pair separations less than

32
00:01:32,849 --> 00:01:37,919
eight thousand kilometers and the read

33
00:01:34,828 --> 00:01:40,978
data for pair separations greater than

34
00:01:37,920 --> 00:01:43,890
8000 kilometers very interesting and to

35
00:01:40,978 --> 00:01:46,039
me surprising because my intuition going

36
00:01:43,890 --> 00:01:50,460
in was that we had a truly non-local

37
00:01:46,040 --> 00:01:52,890
phenomenon so we can easily or

38
00:01:50,459 --> 00:01:55,769
relatively easy categories a lot of the

39
00:01:52,890 --> 00:01:58,460
events into things like terror political

40
00:01:55,769 --> 00:02:01,709
events natural disasters and so on

41
00:01:58,459 --> 00:02:04,589
collapse this to a smaller set which is

42
00:02:01,709 --> 00:02:09,179
makes it easier to read what's shown

43
00:02:04,590 --> 00:02:13,009

here is a group terror events and

44

00:02:09,179 --> 00:02:15,438

partisan events where the stimulus to

45

00:02:13,009 --> 00:02:18,109

have the same emotions comes from the

46

00:02:15,438 --> 00:02:21,219

outside in a sense and compared with

47

00:02:18,110 --> 00:02:23,599

something where the meditation where the

48

00:02:21,219 --> 00:02:26,719

stimulus is basically kind of internal

49

00:02:23,598 --> 00:02:30,318

and what we see is that the network

50

00:02:26,719 --> 00:02:35,239

variants blue column is much stronger

51

00:02:30,318 --> 00:02:38,598

than the then the response from the

52

00:02:35,239 --> 00:02:41,150

covariant covariance measure for the

53

00:02:38,598 --> 00:02:42,578

these terror and partisan events we have

54

00:02:41,150 --> 00:02:46,430

a lot more work to do to really

55

00:02:42,579 --> 00:02:48,349

understand this but it looks like well

56

00:02:46,430 --> 00:02:50,390

literally that the two different kinds

57

00:02:48,348 --> 00:02:52,039

of independent measures are actually

58
00:02:50,389 --> 00:02:54,259
responsive to different kinds of things

59
00:02:52,039 --> 00:02:57,919
this is just an analysis of variance

60
00:02:54,259 --> 00:02:59,840
showing the same data that there is an

61
00:02:57,919 --> 00:03:01,848
interaction between the type of

62
00:02:59,840 --> 00:03:03,979
statistic we use in the category that

63
00:03:01,848 --> 00:03:06,798
they're in by in several different

64
00:03:03,979 --> 00:03:08,988
groupings we see this that is there's a

65
00:03:06,799 --> 00:03:11,599
significant outcome so if there is

66
00:03:08,989 --> 00:03:13,670
consciousness driving what our system

67
00:03:11,598 --> 00:03:15,949
does one might ask what happens if

68
00:03:13,669 --> 00:03:17,750
people are awake versus asleep we might

69
00:03:15,949 --> 00:03:20,000
imagine there's a little more tendency

70
00:03:17,750 --> 00:03:24,189
while people are awake what this shows

71
00:03:20,000 --> 00:03:27,109
is in the center the real 24 hour a day

72
00:03:24,189 --> 00:03:29,000
compared with days there that are

73
00:03:27,109 --> 00:03:32,239
minutes longer or minutes shorter

74
00:03:29,000 --> 00:03:35,719
there's a pretty impressive spike it's

75
00:03:32,239 --> 00:03:38,709
actually only 16 to 1 odds but it's it

76
00:03:35,719 --> 00:03:41,568
suggests that there really is a kind of

77
00:03:38,709 --> 00:03:45,500
consciousness pressure on the data when

78
00:03:41,568 --> 00:03:47,869
people are awake the lung there's the

79
00:03:45,500 --> 00:03:49,789
blue curve show alarm long-term trend in

80
00:03:47,870 --> 00:03:54,049
our data which is in a way kind of

81
00:03:49,789 --> 00:03:55,969
mysterious why would this happen we look

82
00:03:54,049 --> 00:03:59,239
for some sort of external correlate and

83
00:03:55,969 --> 00:04:02,299
Peter decided to gather all kinds of

84
00:03:59,239 --> 00:04:04,669
presidential all kinds of polling data

85
00:04:02,299 --> 00:04:07,159
and looked in particular at the

86

00:04:04,669 --> 00:04:09,049
presidential approval ratings which as

87
00:04:07,158 --> 00:04:11,298
you can see in the left hand graph even

88
00:04:09,049 --> 00:04:15,199
in the raw form have a fairly similar

89
00:04:11,299 --> 00:04:18,680
kind of trend when we do a simple model

90
00:04:15,199 --> 00:04:22,460
to fit the presidential approval data to

91
00:04:18,680 --> 00:04:25,579
the to the global consciousness and

92
00:04:22,459 --> 00:04:26,599
network variance it's a very striking

93
00:04:25,579 --> 00:04:31,519
fit

94
00:04:26,600 --> 00:04:37,010
no proof of a causal result okay this is

95
00:04:31,519 --> 00:04:42,139
my last slide there there is in in the

96
00:04:37,009 --> 00:04:45,500
last of 10 years or nine years some 600

97
00:04:42,139 --> 00:04:47,360
earthquakes in the world or 700 with

98
00:04:45,500 --> 00:04:52,279
Richter magnitude seven or greater in

99
00:04:47,360 --> 00:04:54,290
other words damaging quake about 100 of

100
00:04:52,279 --> 00:04:56,269

those have been on land where they

101

00:04:54,290 --> 00:04:59,060

matter to people and the rest are in the

102

00:04:56,269 --> 00:05:01,879

ocean so this graph shows a strong

103

00:04:59,060 --> 00:05:04,399

pattern when they're on the land and not

104

00:05:01,879 --> 00:05:06,620

much of a pattern at all when these

105

00:05:04,399 --> 00:05:08,750

quakes occur in the ocean what's perhaps

106

00:05:06,620 --> 00:05:11,000

more interesting in a certain sense and

107

00:05:08,750 --> 00:05:14,120

again a temporal structural kind of

108

00:05:11,000 --> 00:05:16,279

thing this central portion is magnified

109

00:05:14,120 --> 00:05:18,829

here and actually separated into two

110

00:05:16,279 --> 00:05:22,129

independent subsets both of which show

111

00:05:18,829 --> 00:05:26,000

the same pattern and that pattern begins

112

00:05:22,129 --> 00:05:28,430

about eight hours before the minimum

113

00:05:26,000 --> 00:05:35,959

point which is at the time of the quake

114

00:05:28,430 --> 00:05:40,189

so okay last point listen oh I this is

115
00:05:35,959 --> 00:05:43,269
the button the fact that only where that

116
00:05:40,189 --> 00:05:46,160
the only the quakes which affect people

117
00:05:43,269 --> 00:05:48,529
show any pattern suggests I think

118
00:05:46,160 --> 00:05:50,320
strongly the consciousness definitely is

119
00:05:48,529 --> 00:05:53,179
involved lots of other things to do

120
00:05:50,319 --> 00:05:55,310
there's even a suggestion of premonition

121
00:05:53,180 --> 00:05:58,370
but more work to do to discover where

122
00:05:55,310 --> 00:06:00,980
there's any reality to that thank you

123
00:05:58,370 --> 00:06:03,399
very much this is the part of the group

124
00:06:00,980 --> 00:06:03,400
who helped

125
00:06:05,990 --> 00:06:13,829
Thank You Roger I just wanted to ask

126
00:06:11,879 --> 00:06:15,959
because I have a son who lives in Los

127
00:06:13,829 --> 00:06:20,629
Angeles could you please call me if that

128
00:06:15,959 --> 00:06:23,698
if you see that happening one of the

129
00:06:20,629 --> 00:06:25,949
suggestions that the data give is that

130
00:06:23,699 --> 00:06:29,340
we could in principle predict things the

131
00:06:25,949 --> 00:06:33,090
trouble is that if we see a strange

132
00:06:29,339 --> 00:06:34,679
change in the data we don't know much

133
00:06:33,089 --> 00:06:36,029
more than that the data are responding

134
00:06:34,680 --> 00:06:39,930
to something we don't know where whether

135
00:06:36,029 --> 00:06:42,089
it's Los Angeles or maybe China and we

136
00:06:39,930 --> 00:06:45,720
don't know when exactly will be either

137
00:06:42,089 --> 00:06:48,179
but it's a good thought Roger wonderful

138
00:06:45,720 --> 00:06:52,289
update and beautiful data question about

139
00:06:48,180 --> 00:06:54,300
this this possible distance effect if

140
00:06:52,288 --> 00:06:56,668
you for example look at the earthquake

141
00:06:54,300 --> 00:06:59,160
data no earthquakes are are very

142
00:06:56,668 --> 00:07:00,899
physically localized and you literally

143

00:06:59,160 --> 00:07:03,660
because you've got a span all around the

144
00:07:00,899 --> 00:07:05,759
world you have you have eggs or re jeez

145
00:07:03,660 --> 00:07:08,729
that are quite some distance from a

146
00:07:05,759 --> 00:07:10,409
given quake if you plot the data as a

147
00:07:08,728 --> 00:07:13,079
function of distance from a quake

148
00:07:10,410 --> 00:07:14,340
averaging over all the quakes for

149
00:07:13,079 --> 00:07:16,620
particularly obviously the ones that are

150
00:07:14,339 --> 00:07:19,319
in the land is there a distance effect

151
00:07:16,620 --> 00:07:21,449
there is a small distance effect but the

152
00:07:19,319 --> 00:07:23,879
one that we know most about has to do

153
00:07:21,449 --> 00:07:26,069
with the distance between pairs of re

154
00:07:23,879 --> 00:07:29,490
geez our pair the average pair

155
00:07:26,069 --> 00:07:31,759
correlation is greater for the re G that

156
00:07:29,490 --> 00:07:35,970
are close to each other we do have

157
00:07:31,759 --> 00:07:37,769

already a suggestion some of an answer

158

00:07:35,970 --> 00:07:42,030

to your question and it is positive

159

00:07:37,769 --> 00:07:43,948

there is a drop off of effect with

160

00:07:42,029 --> 00:07:49,469

regard with regard to what appears to be

161

00:07:43,949 --> 00:07:54,870

the focal point of the event yes there's

162

00:07:49,470 --> 00:07:59,820

one is it possible to have a dedicated

163

00:07:54,870 --> 00:08:03,418

reg for a specific area and somehow the

164

00:07:59,819 --> 00:08:06,360

intentionality says however you level or

165

00:08:03,418 --> 00:08:09,299

think of intentionality you Greg would

166

00:08:06,360 --> 00:08:13,740

only ever respond to anything from that

167

00:08:09,300 --> 00:08:16,139

specific spot or event style like an

168

00:08:13,740 --> 00:08:18,360

earthquake and nothing else

169

00:08:16,139 --> 00:08:20,460

from the intentions you want to put on

170

00:08:18,360 --> 00:08:24,419

this you think that's conceptually

171

00:08:20,459 --> 00:08:26,908

possible it given the nature of the

172
00:08:24,418 --> 00:08:28,709
meeting and that the content of the

173
00:08:26,908 --> 00:08:32,399
talks we've been listening to I'm

174
00:08:28,709 --> 00:08:35,879
inclined to say anything is possible but

175
00:08:32,399 --> 00:08:37,408
more seriously I think the in the nature

176
00:08:35,879 --> 00:08:39,088
of the question that we ask is very

177
00:08:37,408 --> 00:08:41,668
important and basically that's what

178
00:08:39,089 --> 00:08:45,149
you're talking about if we specify the

179
00:08:41,668 --> 00:08:48,088
task you so to speak or if we task and

180
00:08:45,149 --> 00:08:51,089
our AG it's it's there is some evidence

181
00:08:48,089 --> 00:08:56,790
that they re G will be responsive to

182
00:08:51,089 --> 00:08:59,550
that tasking you could but it wouldn't

183
00:08:56,789 --> 00:09:01,649
we wouldn't be able to use the same you

184
00:08:59,549 --> 00:09:03,179
know material as we have here because

185
00:09:01,649 --> 00:09:07,159
we're talking about pairwise

186
00:09:03,179 --> 00:09:09,389
correlations it really is a global

187
00:09:07,159 --> 00:09:11,759
response we don't know how deep that

188
00:09:09,389 --> 00:09:15,870
correlation structure goes but at least

189
00:09:11,759 --> 00:09:20,509
the major stuff is driven by inter re G

190
00:09:15,870 --> 00:09:23,639
correlations and have you done any

191
00:09:20,509 --> 00:09:26,789
analysis of as opposed to distance

192
00:09:23,639 --> 00:09:28,948
cultural connection like if a culture

193
00:09:26,789 --> 00:09:33,269
feels more connected to an event happens

194
00:09:28,948 --> 00:09:34,889
is their response bigger I think I can

195
00:09:33,269 --> 00:09:36,570
answer in the affirmative we haven't

196
00:09:34,889 --> 00:09:38,009
done very much of that but once in a

197
00:09:36,570 --> 00:09:39,839
while there will be something well for

198
00:09:38,009 --> 00:09:42,620
example we look at political events

199
00:09:39,839 --> 00:09:47,070
which and more often than not they're

200

00:09:42,620 --> 00:09:50,310
us-based political events and we look

201
00:09:47,070 --> 00:09:52,320
this is usually exploratory not formal

202
00:09:50,309 --> 00:09:54,179
the formula is always asking about the

203
00:09:52,320 --> 00:09:57,870
whole network but if we look at the

204
00:09:54,179 --> 00:10:01,789
local re G's for it to that let's say

205
00:09:57,870 --> 00:10:01,789
the US if we limit