

Draft: Do not quote or disseminate

Emotion and Global Consciousness

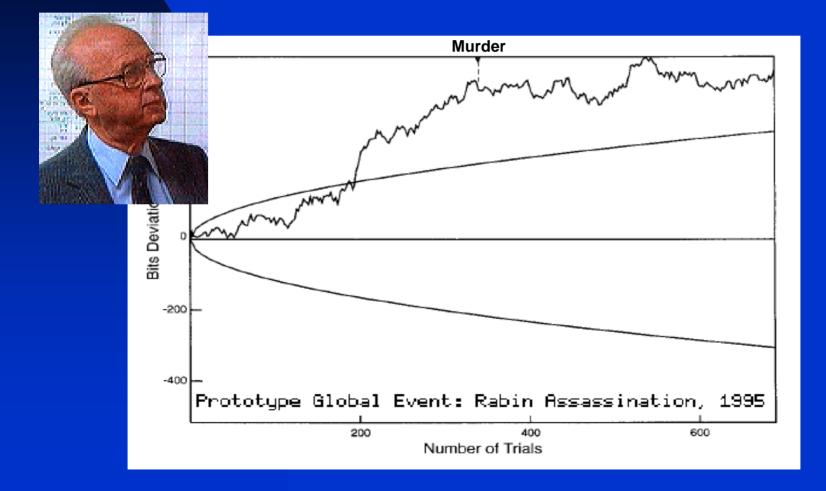
A study of basic emotions evoked or embodied In major events correlated with GCP/EGG data

> Prepared for a presentation to the Bial Symposium on Emotions

> > **Roger Nelson**

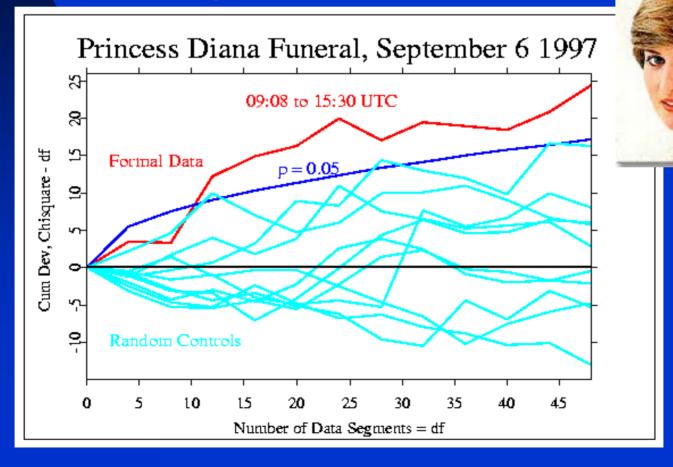
Global Consciousness Project http://noosphere.princeton.edu

A prototype global event, November 1995 Assassination of Yitzhak Rabin Surprise, Fear, Sadness

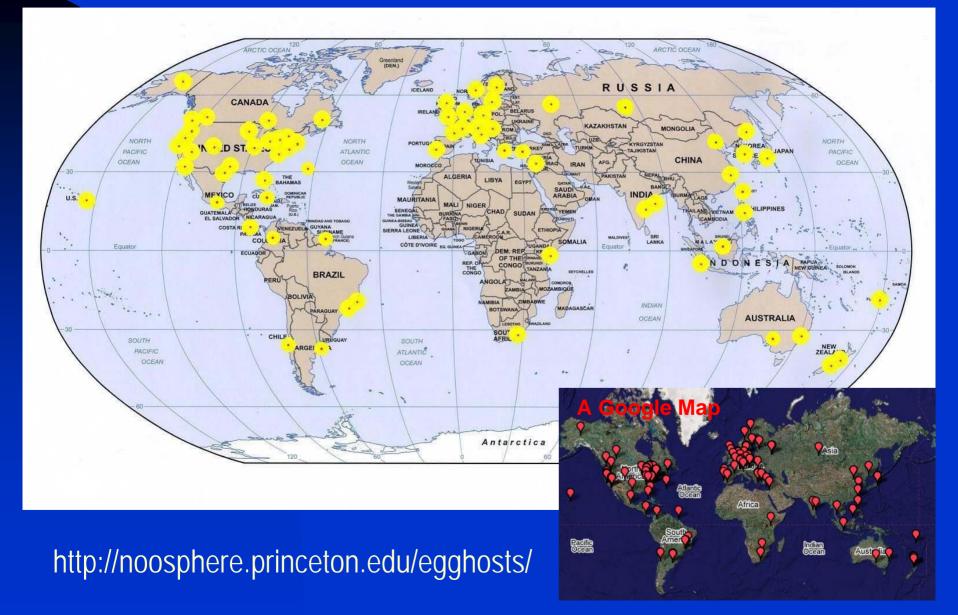


Princess Diana's Funeral Sadness, Compassion, Love Multi-REG data, 12 independent data streams

Expectation is level trend

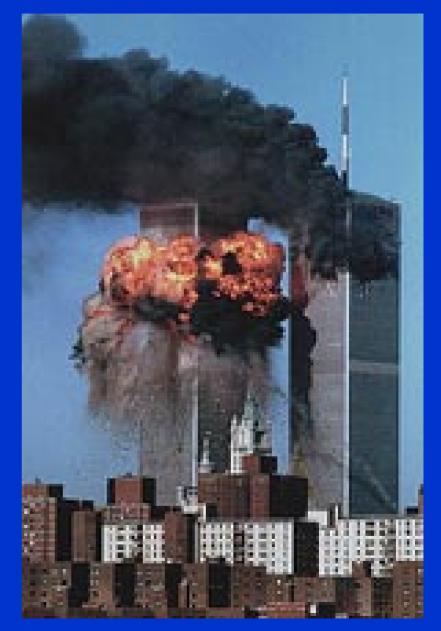


A World Spanning Network of About 60 Eggs



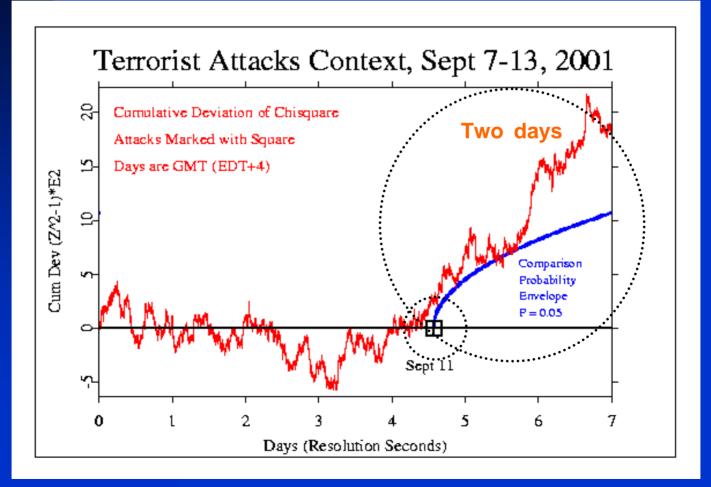
The World Trade Center September 11 2001

The GCP network Then had 37 REGs Around the world



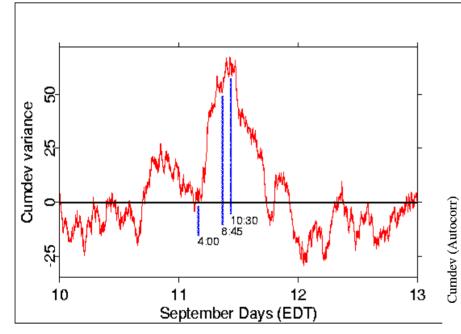
Tamara Beckwith

September 11 2001 Destruction of the World Trade Towers A 50-hour trend followed the attacks



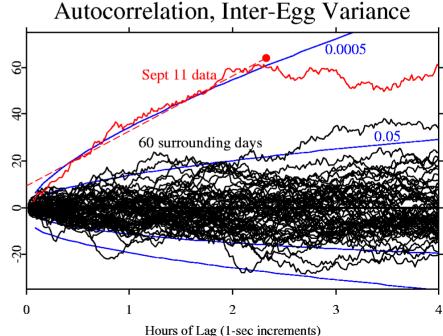
Other Views of September 11 2001 These are pictures of the variability among the eggs They should look like a "random walk" on 9/11, but ...

Variance began changing at 04:00

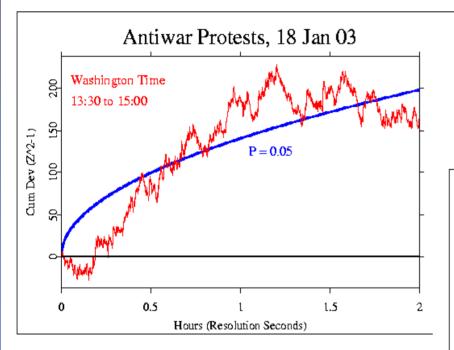


9/11 was unique in 3 years of data

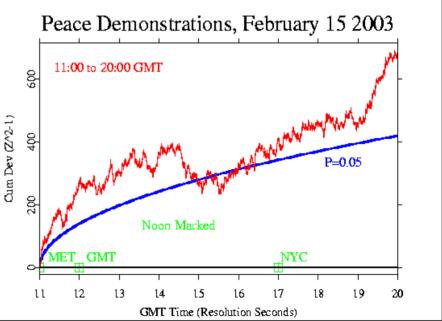
The autocorrelation says this event was extraordinary



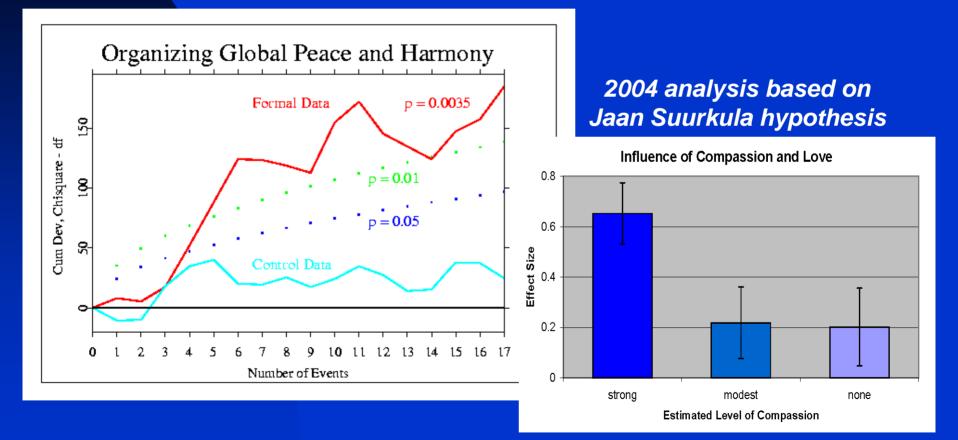
Consciousness Fields?



Compassion may be a primary source



Positive intent and compassion An organizing field of consciousness?



Compassion seems inherent in efforts to build or restore the social fabric

Meditations, Prayer Vigils, Ceremonies

Compassion implies Interaction, Interdependence, Respect, Love

It is a necessary and possibly sufficient Substrate for shared consciousness

Querying the GCP Results

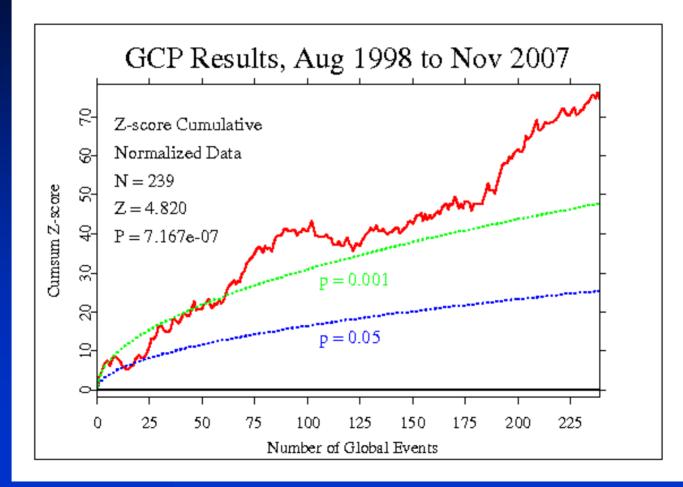
First, we look at overall findings

Second, general categorizations

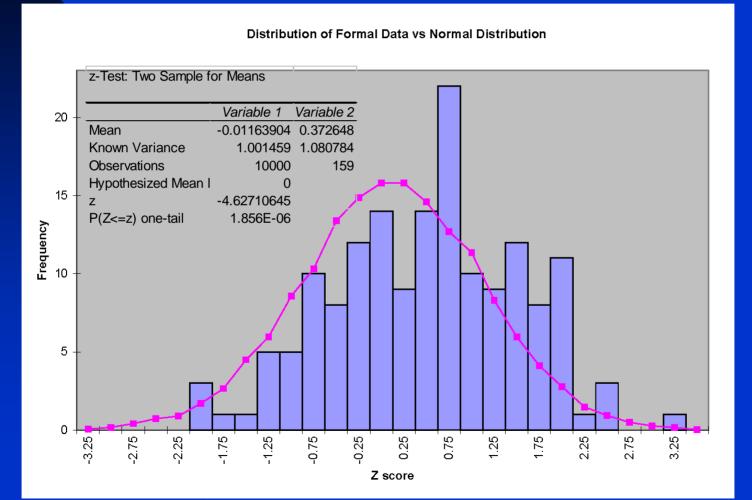
Specific questions about emotions

Overarching implications and conclusions

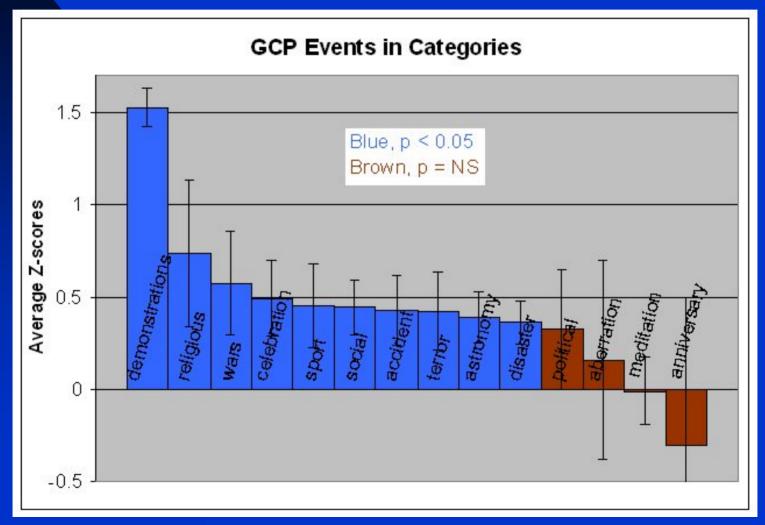
Current result: formal database, 9 years 239 rigorously defined global events Odds: Million to 1 against chance



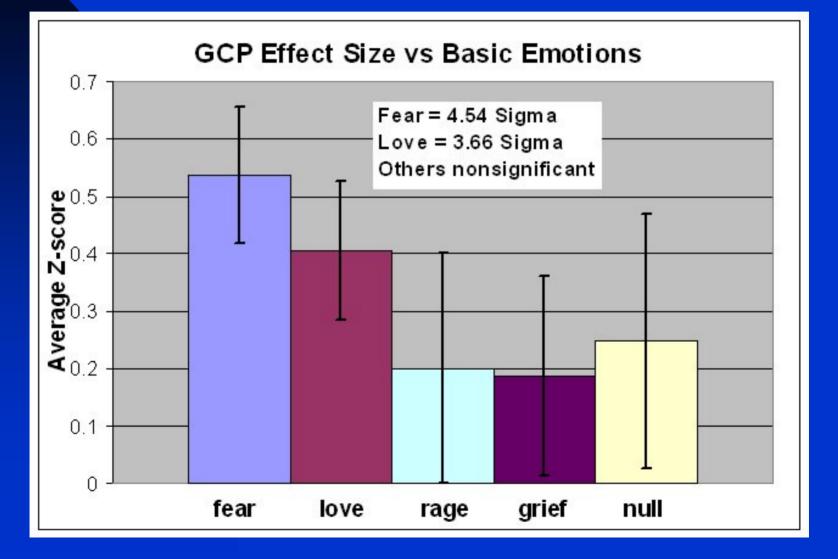
Distribution of Event Z-scores: Roughly normal, shifted by <u>0.37</u> std dev (Small effect implies potential small sample issues)



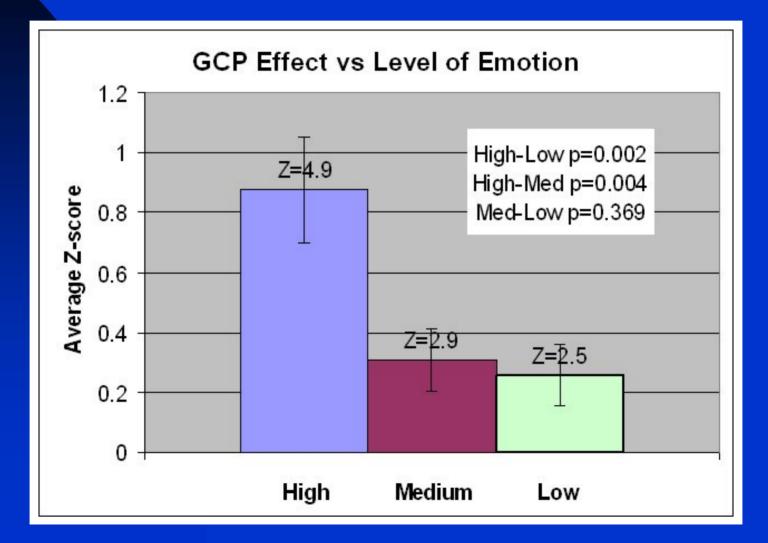
Effects by GCP event categories 2007 update generally similar to 2004 (More categories are significant – N is greater)



William James' Four Basic Emotions Derived from "Bodily Involvement"

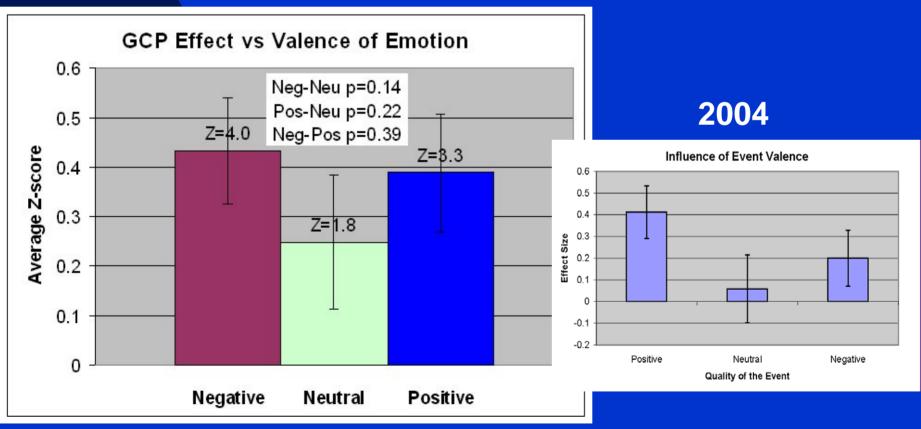


Level of emotion relatively easy To assign -- highly significant factor

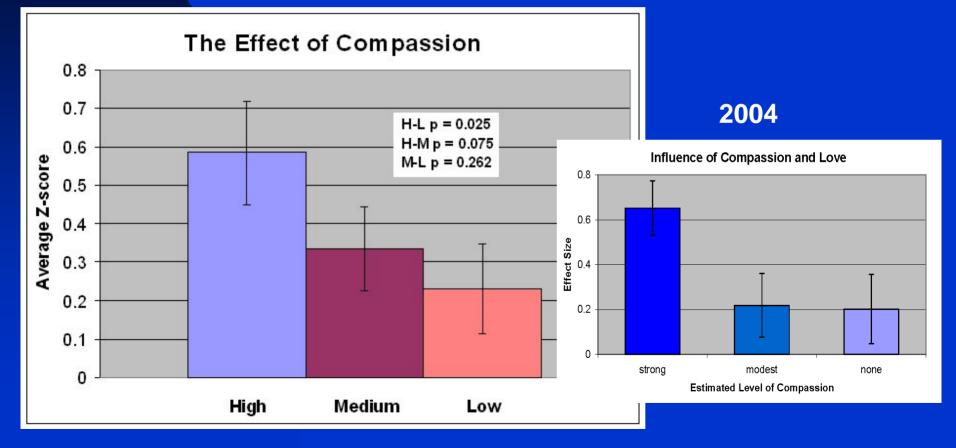


VALENCE: Both positive and negative events Have larger effects than neutral events (But differences are not significant)

2007



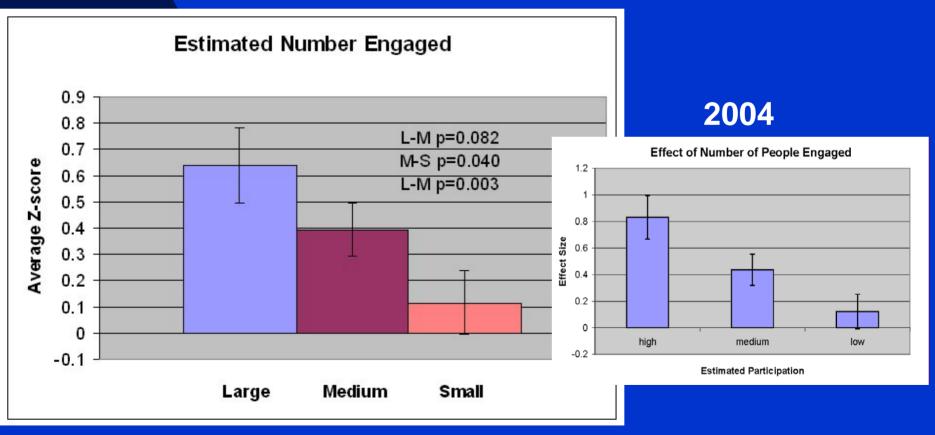
COMPASSION: Events that evoke or Comprise compassion or love Have larger effects



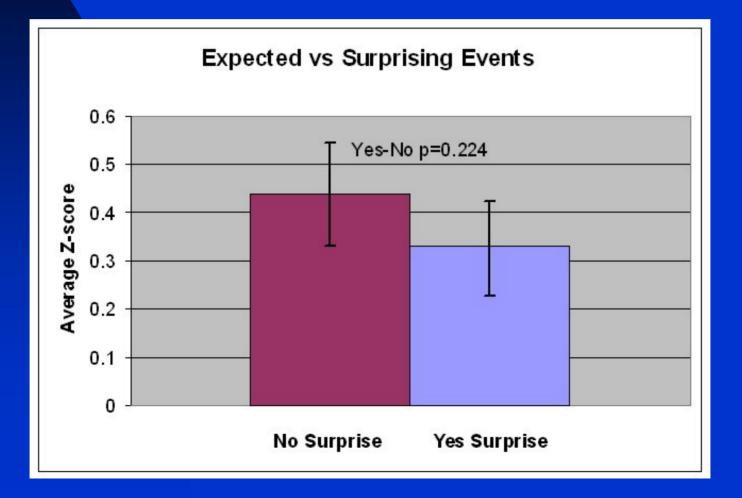
(Hypothesis proposed by Jaan Suurkula)

NUMBER of people paying attention has a substantial effect on the network Significant <u>but</u> may be confounded

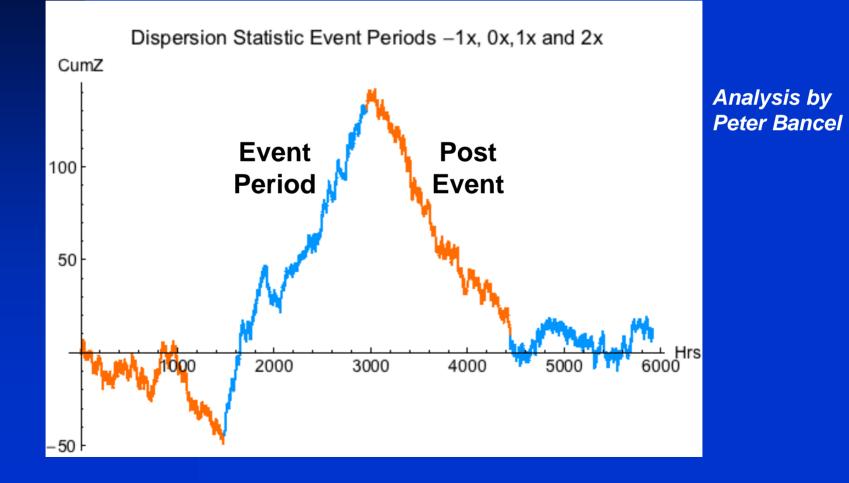
2007



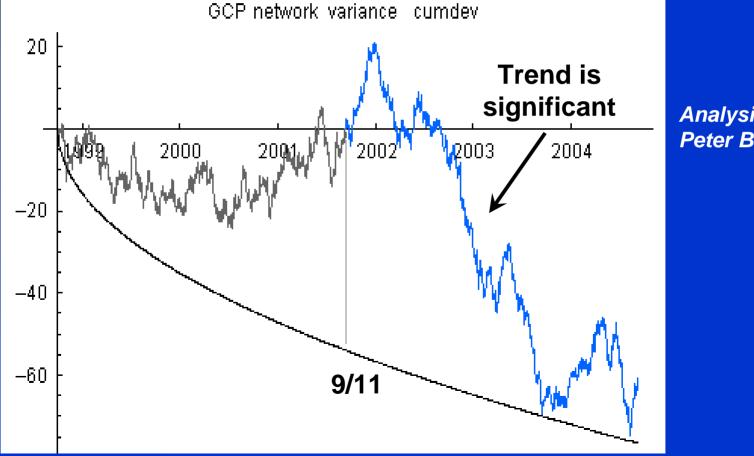
Surprise is listed by some researchers As an emotion, but it does not have A big effect in GCP formal events (note possible confounds with some emotions)



A reversal of trend After the defined event: *Probably Changing Emotions*

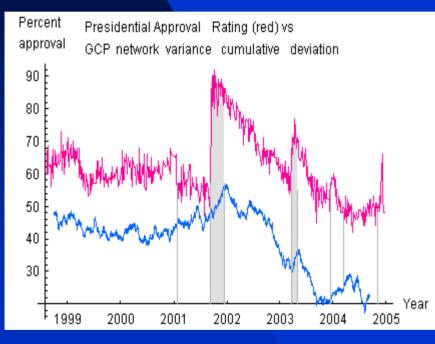


Emotion on a grand, global scale? Long-term negative trend in primary measure Are we meditative, or depressed?



Analysis by Peter Bancel

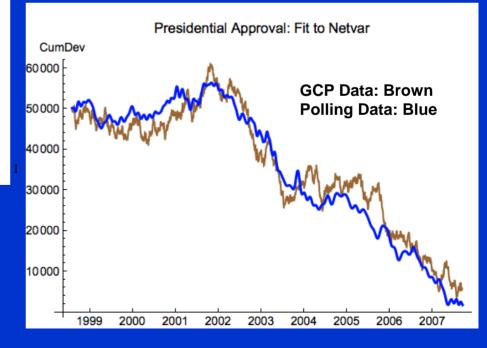
What might explain the long-term trend? Correlation with a sociological measure **Presidential Approval Rating vs NetVar**



We see similar spikes and trends

Analysis by Peter Bancel

Model Fit & Update to 2007



How could these trend Correlations come about?

Maybe the EGGs reflect our long-term Emotional state. We're conscious it Is not a happy time in the world.

We have much to do.

"The Age of Nations is past. The task before us now, if we would not perish, is to build the Earth."

- - Père Teilhard de Chardin

Can the flap of a butterfly's wings ...

GCP/EGG Project The people who make it go

International collaboration of about 100 Scientists, Artists, Friends, ... Richard Adams, USA, general support Brad Anderson, USA, widget programming Peter Bancel, Paris, professional analysis, collaboration Paul Bethke, USA, windows programming, network Dick Bierman, Netherlands, design and realtime display Taylor Jackson, Canada, realtime display maintenance Greg Nelson, USA, program architecture, general support Dean Radin, USA, design and independent analysis Fernando Rodríguez, Spain, egghosts google map Leane Roffey, USA, music, outreach, general support Jaroen Ruuward, Netherlands, realtime programming Dick Shoup, USA, independent analysis Nishith Singh, India, realtime programming Mahadeva Srinivasan, India, general support William Treurniet, Canada, egganalysis programming John Walker, Switzerland, programming, general support ... And all the EGG hosts around the world