

Awakening Global Mind Creative Consciousness In the World

Universal Awakening Organization Meeting
October 21 2005

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

The EGG Project

(aka the Global Consciousness Project)

The people: An international collaboration 100 Scientists, Artists, Friends, ...
Network of host sites world wide

The tools: REG technology, Field applications Instrumenting an EEG Analog for the earth An ElectroGaiaGram – the EGG Network

The question: Can we capture a faint first Glimmering of Global Consciousness?

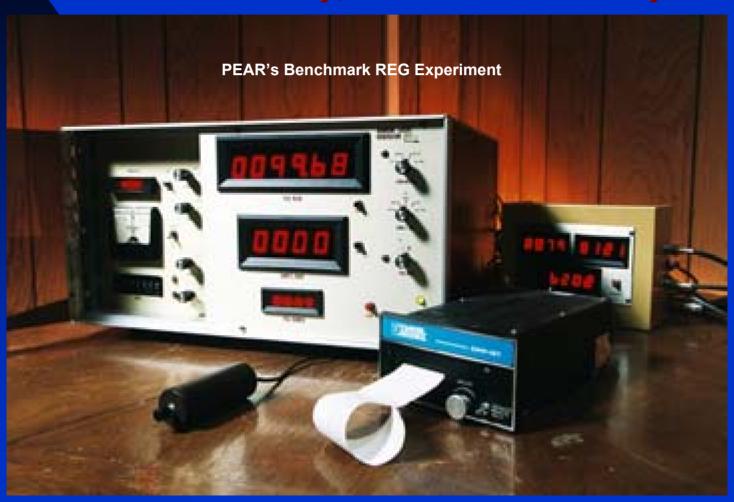
Historical Background

19th Century, Psychical Research, Experiential 1930's, Parapsychology, Rhine, Experimental 1970's, Electronics, Computers, Technological

Converging Focus

1980, PEAR, Random Event Generator, Intention 1993, FieldREG, Group Consciousness, Resonance 1997, Global Consciousness Project, Engagement

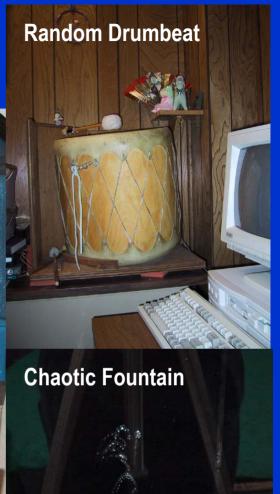
Mind Matter and Machines Tools for Anomalies Research PEAR Laboratory, Princeton University



We have used many machines

All based on Random Sources





Human Version of the Chick Experiment by Pe'och An Onboard REG Controls the Path of a Robot (With a Frog Passenger) Poisson Distributed Rotation and Distance



The beginning of a viable Experiment is good design And careful implementation



Designing a flawless experiment is extremely difficult, and carrying one out is probably impossible.

-- Jessica Utts, Seeing Through Statistics

New Generations of Random Sources PEAR B-box: Thermal Johnson Noise Mindsong: Field Effect Transistor



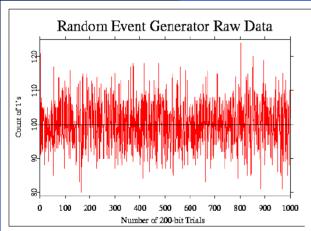
Palmtop Portability

Replications and Extensions

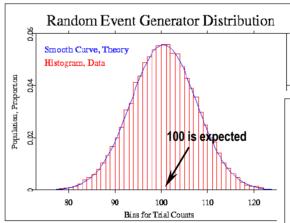
How It Works: Here's 1000 Trials From A Physical Random Source Each Trial Is the Sum of 200 Bits

Trial Scores: 100 ± 7.701
Plotted as a Sequence

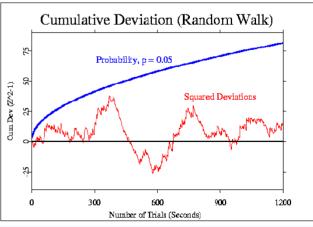
Like flipping 200 coins And counting the heads



Binomial Distribution of Data Compared to Theoretical Normal

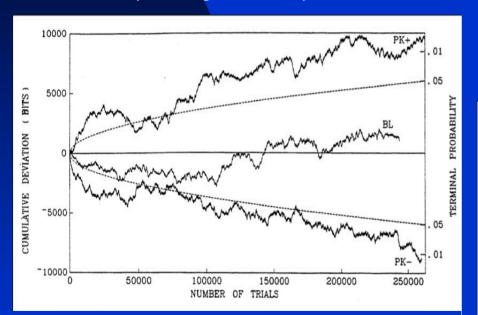


Cum Dev from Expectation Random ("Drunkard's") Walk



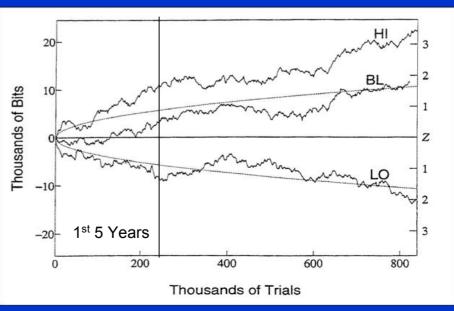
PEAR REG Intention Experiment The data are not random, but take on a trend Deviations correlated with participants' intentions

5 Years, 33 Operators, 87 Series



Expectation is a level trend

12 Years, 522 Series, 91 Operators



Moving Out of the Lab Field REG Experiments

Take REG technology into the Field Look for evidence of a Consciousness Field

Concerts, Operas

Churches, Cathedrals

Rituals, Ceremonies

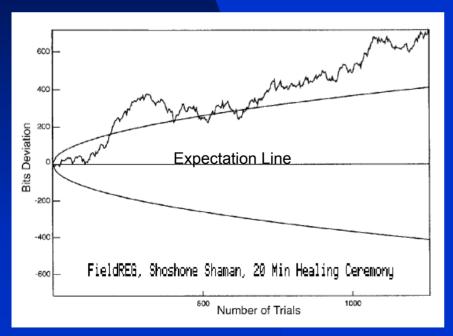
Sacred Spaces, ...

Situations with Resonance or Coherence And -- Mundane Situations, for Comparison

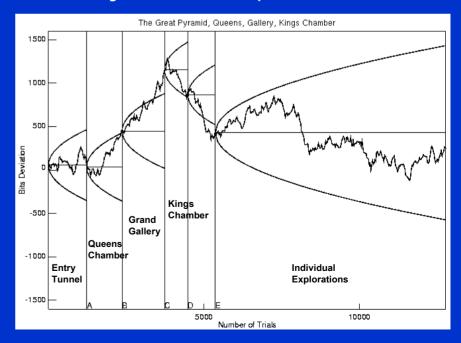
FieldREG Experiments: Deep Engagement, Coherent Group Consciousness and Emotion

Expectation is a level trend

An Example of a Numinous Event
Shamanic Healing Ritual for Devils Tower

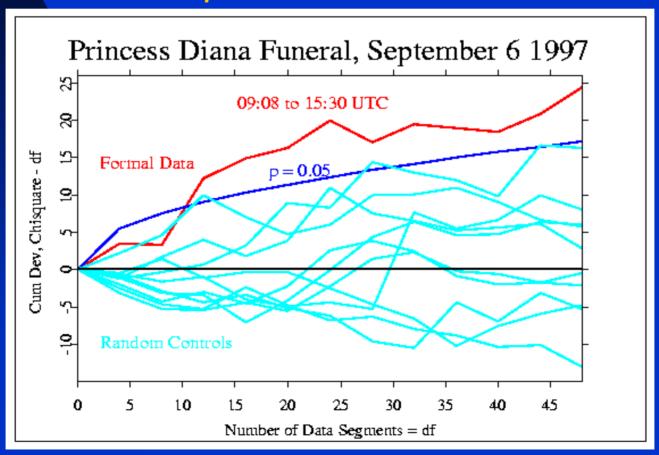


Group Chanting in Sacred Space Great Pyramid at Giza, Inner Chambers



The next step: Multi-REG data recording Colleagues in Europe and the US Collected 12 independent data streams

Expectation is level trend



A World Spanning Network Meaningful Patterns in Data

Yellow dots are nodes in the network



http://noosphere.princeton.edu

When you put a thing in order, and give it a name, and you are all in accord, it becomes.

-- From the Navajo, Masked Gods, Waters, 1950

Freiburg meeting, Parapsychology and Psychophysiology EEG for the world becomes the EGG network (ElectroGaiaGram)

GCP Homepage

http://noosphere.princeton.edu

Special Link Buttons

Status Day Sum Results **Extract**

Presentation Split into Two Complementary Perspectives

Frame-based Web Design Rick Berger

Global Consciousness Project



What is the nature of Global Consciousness?



Global Correlations in Random Data



Home

The Global Consciousness Project, also called the EGG Project, is an international and multidisciplinary collaboration of scientists, engineers, artists and others. This website introduces methods and technology and empirical results in one section, and presents interpretations and applications in another.

We have been collecting data from a global network of random event generators since August, 1998. The network has grown to about 65 host sites around the world running custom software that reads the output of physical random number generators and records a 200-bit trial sum once every second, continuously over months and years. The data are transmitted over the internet to a server in Princeton, NJ, USA, where they are archived for later analysis. Individual data create a tapestry of color. The dot below shows coherence.



The purpose of this project is to examine subtle correlations that appear to reflect the presence and activity of consciousness in the world. The scientific work is careful, but it is at the margins of our understanding. We believe our view may be enriched by a creative and poetic perspective. Here we present various aspects of the project, including some insight into its scientific and philosophical implications.

ON THE LEFT

scientifically treated results

a study of apparent patterns that should not exist in truly random sequences

analysis providing details and context to support building good models

an unambiguous picture of data with minimal interpretation

the goal is to learn the sources of structure and understand mechanism

SCIENTIFIC

introduction random sources egg data archive basic experiment the primary results hypothesis registry normalizing the data standardize the data eventbased analysis analytical extension long trend example models and theory free data access conclusions

AESTHETIC VIEW

introduction a poetic history hatching an egg egg host network weaving a tapestry the realtime display a musical interlude the original website noosphere's status production credits media information how to contribute what you can do implications

ON THE RIGHT

poetic interpretation and art

a free hand with possiblities touching eve and ear, seeking the heart of the matter

aesthetic and spiritual issues that are central to creative cultural evolution

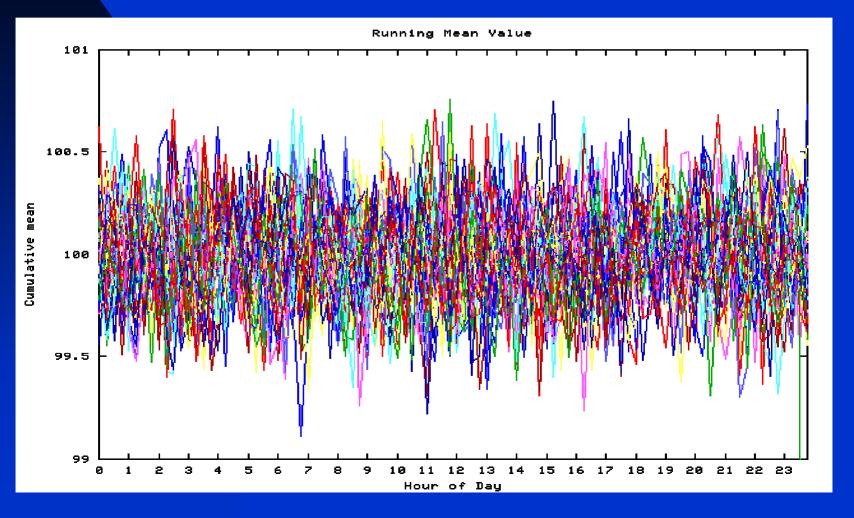
the meaning of evident links between events and observers

the goal is to see interconnection as real & creative mind as magical

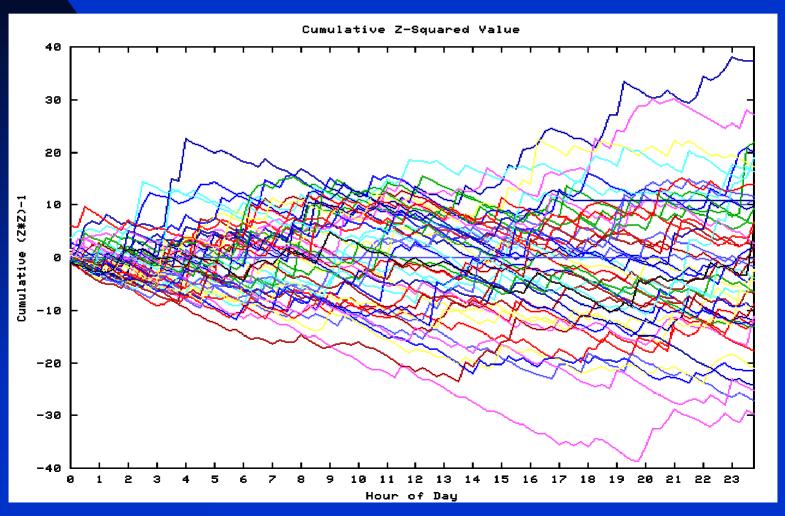
Custom software to record and archive data From physical Random Event Generators (REG or RNG)



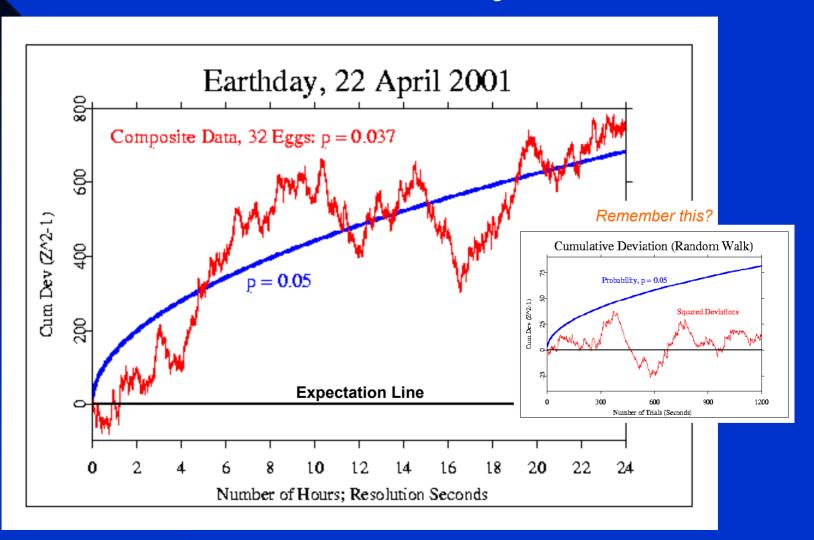
Internet transfer of data to Princeton It looks random: Combined data For a whole day, from 48 eggs



We can see better what's happening by Plotting the cumulative deviations ($\chi^2 - df$) Correlation Tilts ... Variance Spreads

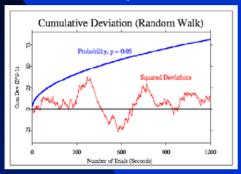


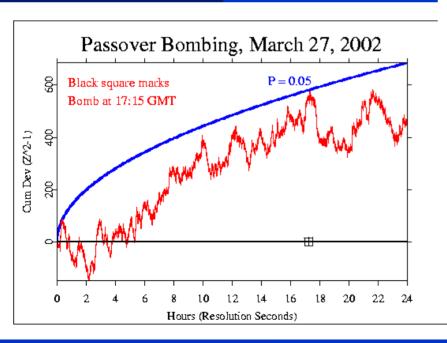
When we make a composite across eggs, the cumulative deviation may show a trend

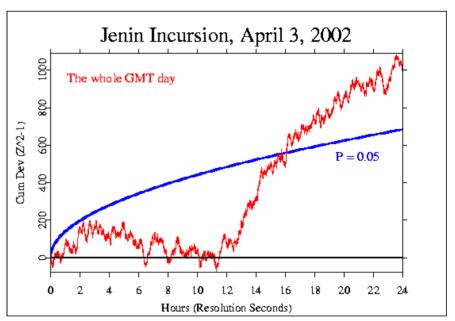


Maybe a trend in the cumulative Deviation is Meaningful?

This is expected





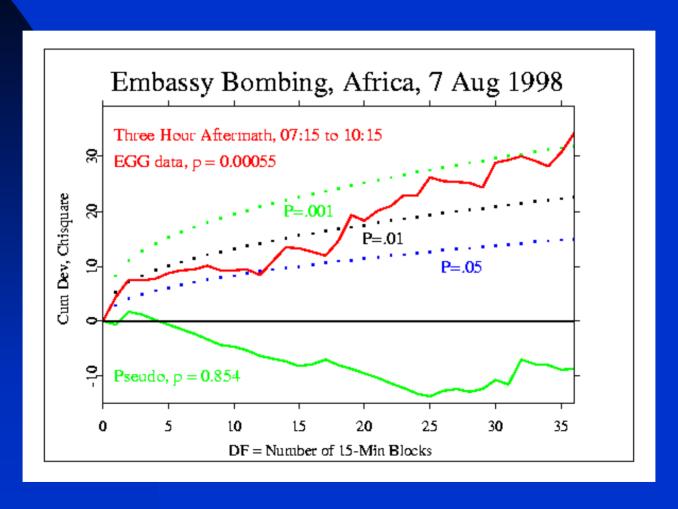


This is what we find in the data

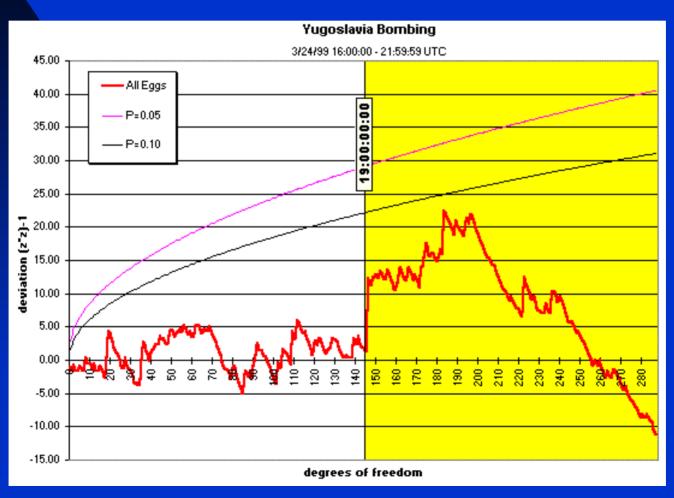
With this Global Network We can Look for Effects of Engaging Events

Natural disasters
Terrible accidents
Beginnings of war
Grand celebrations
Political excitement
Religious pilgrimage
Astrological hot spots
World-wide meditations

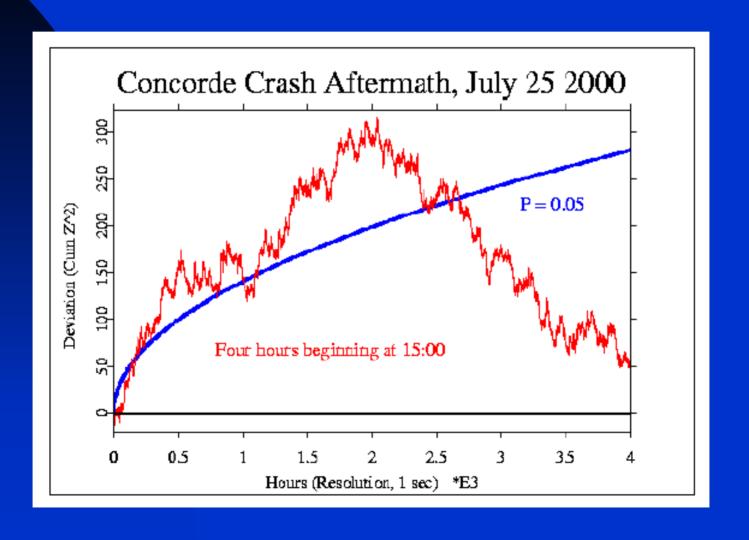
Major disasters that engage us powerfully Often correlate with big deviations This is the first GCP/EGG event



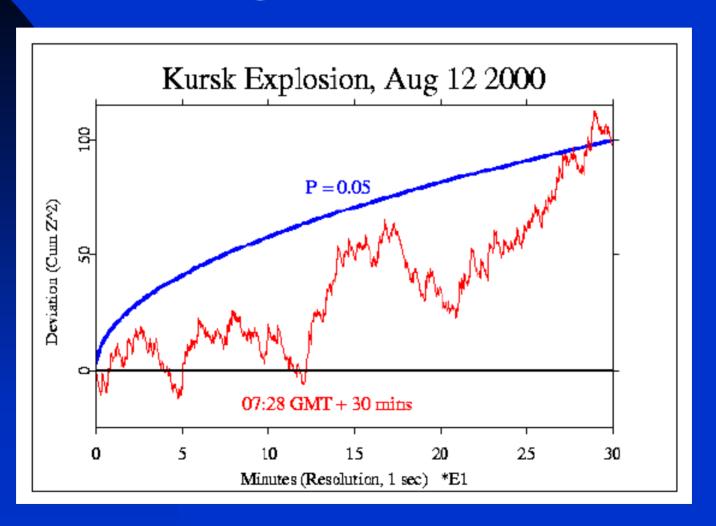
Exploration of context: Six hours of data Around the beginning of bombing in Kosovo Cumulative deviation of Z_s^2 or χ^2



The Concorde Crash July 25 2000



The Kursk Submarine Disaster August 12 2000



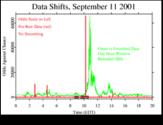
Global Emotion: Transfixed by Tragedy

On September 11 2001, early in the morning, a network of physical random event generators (called "eggs") took on a striking trend. By 8:45 the non-random behavior was unmistakable. It peaked at about 10:30 with odds against chance of a thousand to one. See the red trace below.

Other measures also deviated from expectation on that day, creating an unmistakable pattern where there should be none. The eggs became linked across distance and time in some subtle way that we do not yet know how to explain.

This is not a physical or electromagnetic effect. It's not due to extraordinary mobile phone use, or saturation TV. It appears to be related to our profound engagement.

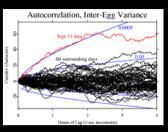




On 9/11 the data contained unique sequential structure



On 9/11 the data showed extraordinary moments

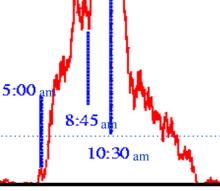


On 9/11 deviations began that persisted for 2 days



The jagged red line shows three days of a measure (squared cumulative deviation of variance) that represents the composite randomness of 37 eggs.

On September 11, the data show clear structure where there should be none.



More at http://noosphere.princeton.edu

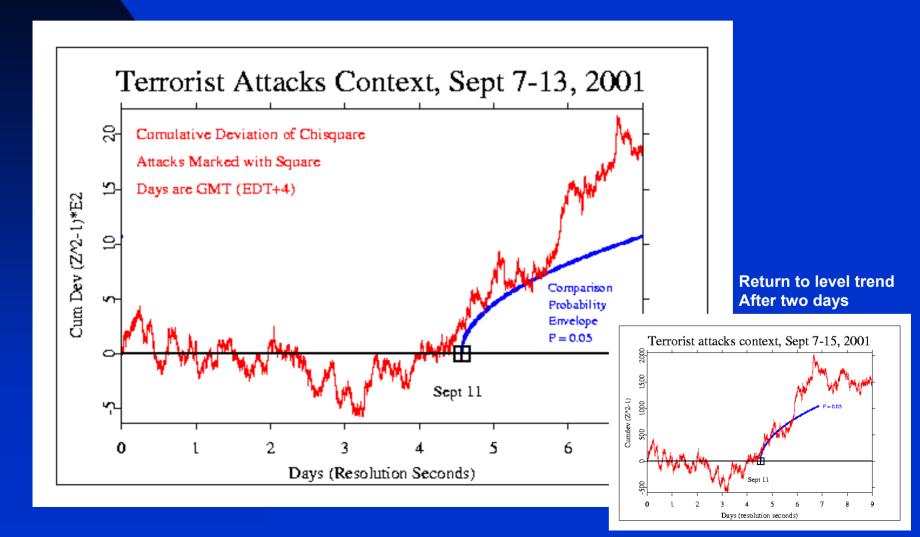
Normal range of variation

9/10

9/11

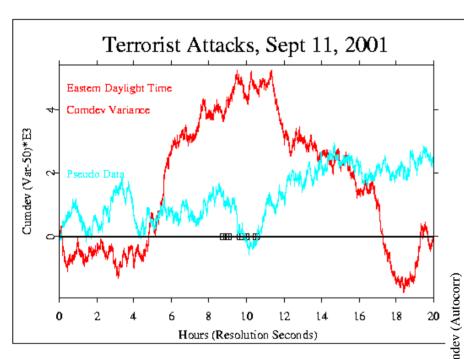
9/12

The destruction of the World Trade Towers Sept 11 2001 A 50-hour trend followed the attacks



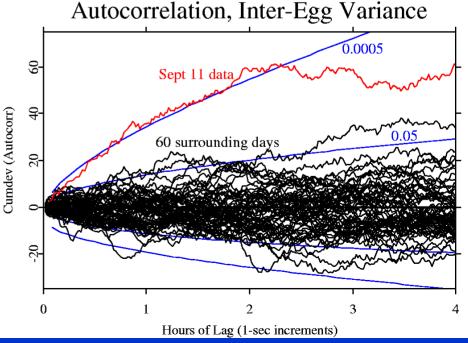
Other Views of September 11 2001

On the Left a picture of variability among the eggs It should look like a "random walk" but ...



9/11 was unique In 3 years of data

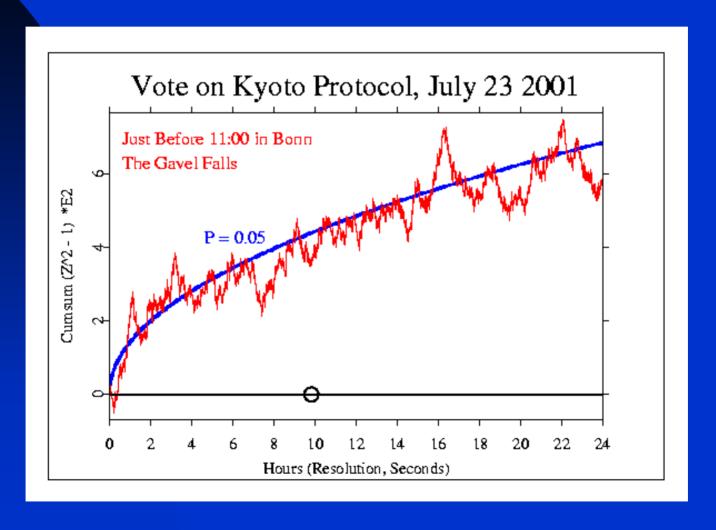
On the right a picture of Sequential dependence



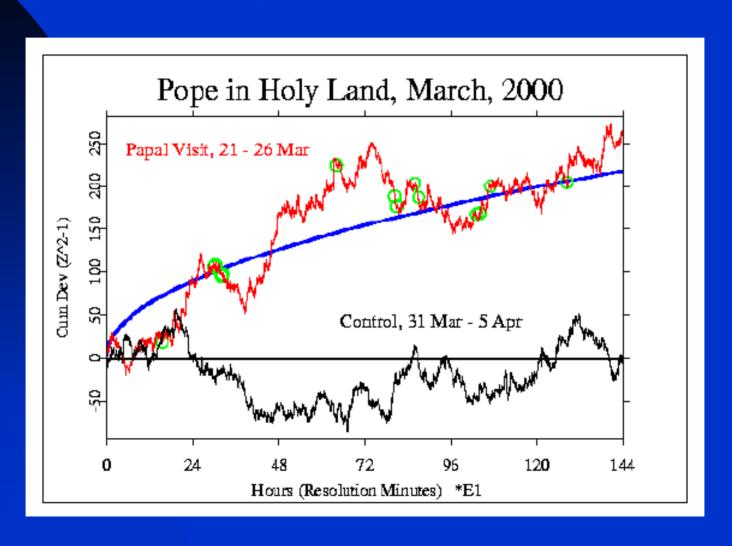
Our task must be to free ourselves from this prison [of separation] by widening our circle of compassion to embrace all living creatures and the whole of nature in its beauty.

- - Albert Einstein

A Substantial Agreement on Getting Our Ecological Act Together



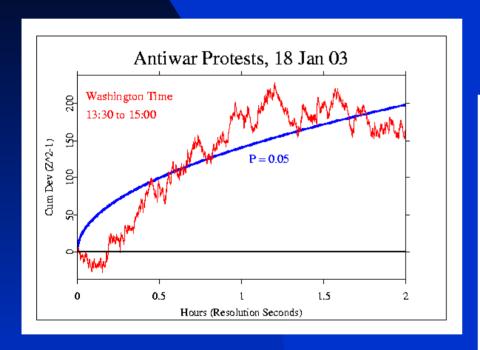
The Pope's 6-day pilgrimage to the middle east An occasion of hope for resolution of differences

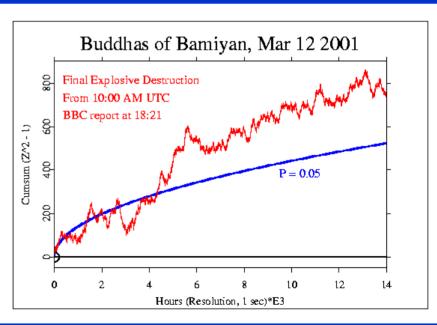


"The Age of Nations is past. The task before us now, if we would not perish, is to build the Earth."

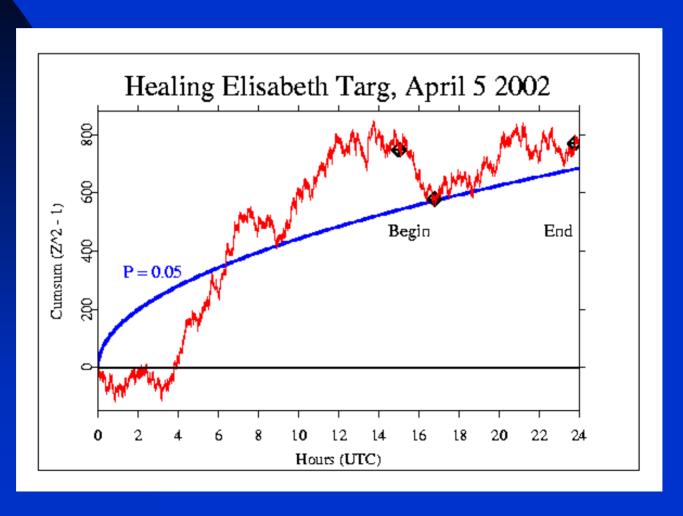
- - Père Teilhard de Chardin

Consciousness FieldsCompassion is a primary source



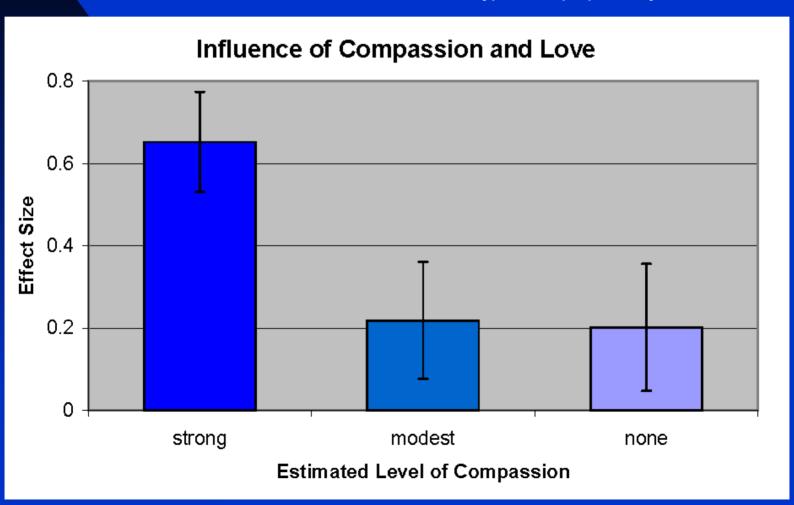


Apparent response to healing prayer Friends and colleagues of Elisabeth Targ Focus on positive outcome of surgery



Events That Seem to Evoke or Comprise Love and Compassion Have Larger Effects

Hypothesis proposed by Jaan Suurkula

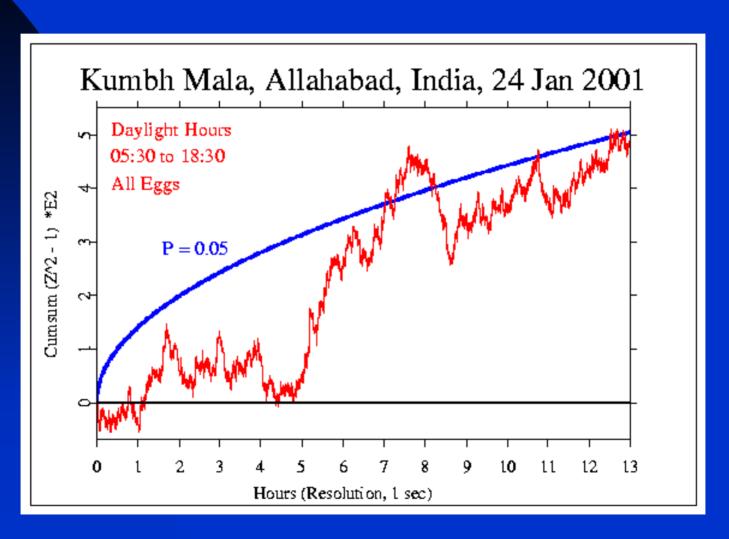


In becoming planetized humanity is acquiring new physical powers that will enable it to super-organize matter.

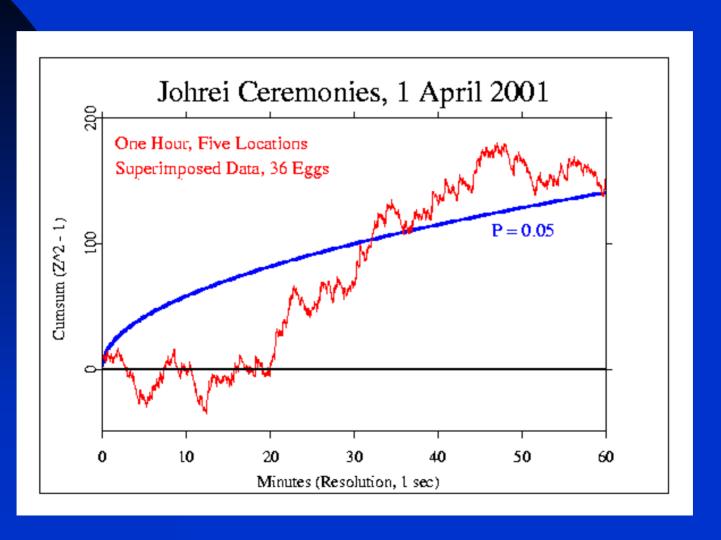
Even more important, is it not possible that by the direct converging of its members it will be able, as though by resonance, to release psychic powers whose existence is still unsuspected?

Pierre Teilhard de Chardin, The Future of Man

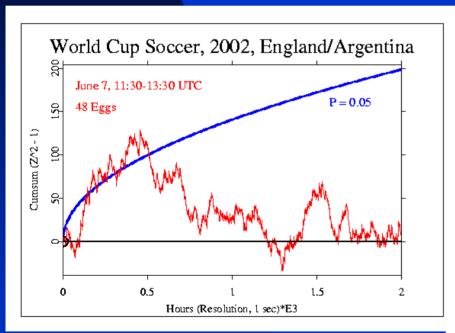
Four Million People Pilgrimage For Ritual and Prayer

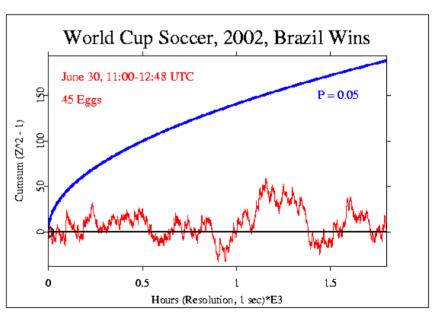


Synchronized Johrei Ceremonies Around the World, April 1 2001

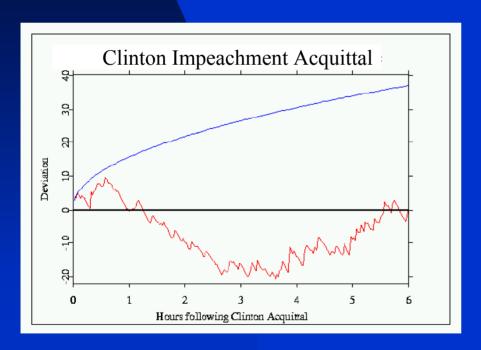


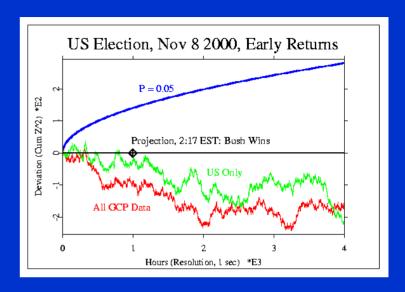
In contrast to compassion, Competition, as in sporting events Seems not to produce big deviations

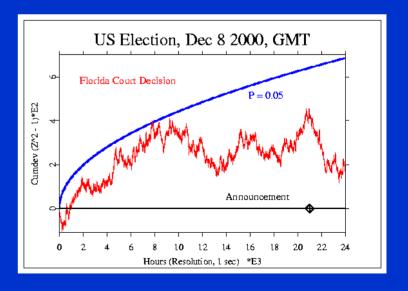




Political events, even big ones, are not necessarily of interest to the EGG







Creative source is an effortless state of being.

Desiring and resisting are efforts.

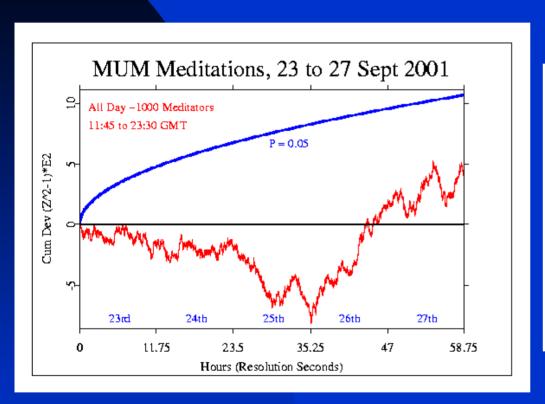
Accepting and appreciating are effortless.

- - Harry Palmer, Living Deliberately

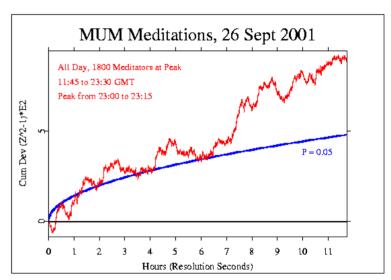
Chicago, Moment of Silence September 14 2001



Focused Siddhi Meditations September 23 to 27, 2001



Peak Day, Maximum Numbers



After Terrorist Bombings in Madrid All of Spain Came Out in Commiseration

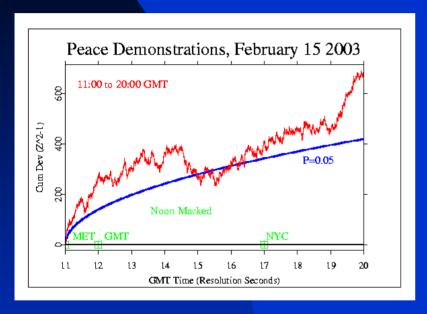


Each time a man stands up for an ideal, or acts to improve the lot of others, or strikes out against injustice, he sends forth a tiny ripple of hope, and crossing each other from a million different centers of energy and daring, those ripples build a current that can sweep down the mightiest walls of oppression and resistance.

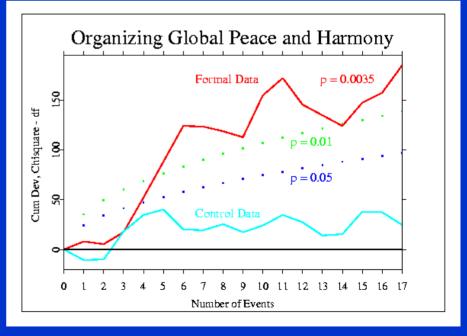
- - Robert Kennedy, Capetown, 1966

Positive Intent An organizing field of consciousness

A poignant example



A concatenation of 17 events organized for positive intent



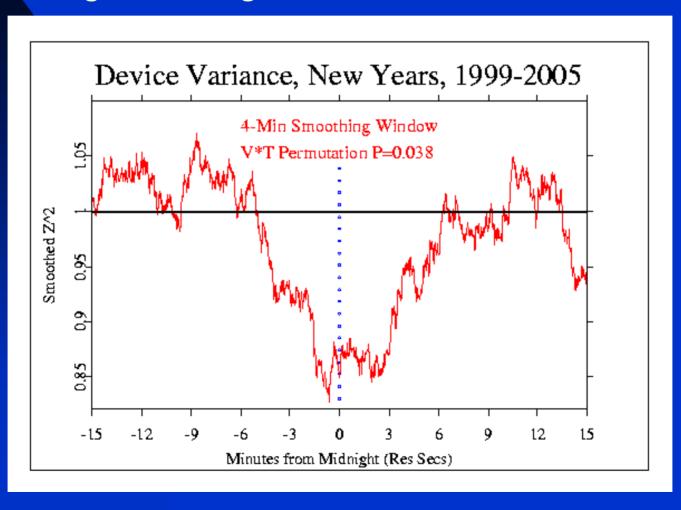
But it seems there's more
Than focused engagement:
Sometimes we simply share, interact

Mere attention, enjoyment
Of the lighter side
Celebrations

What better example than New Years?

Happy New Year!

Variance Reduction, Composite for 7 New Years
Signal Averaged Across 37 Time Zones



Seven-Yr P-value 0.038

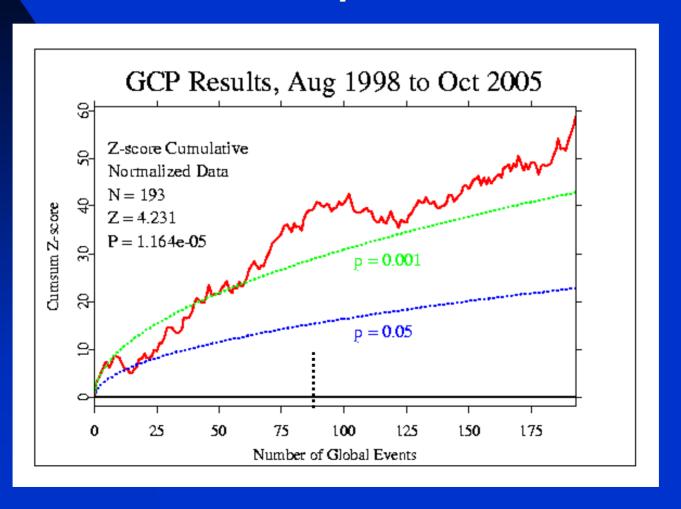
Consciousness is creative

We take meaning from music, we know our loved ones from afar, and we leap in thought to the stars.

Sometimes we dissolve ourselves into a group and become a larger whole.

And we always have prayed as if it could make a difference.

Current Result: Formal Database, 7 Years 193 Rigorously Defined Global Events Odds: About 1 part in 100,000



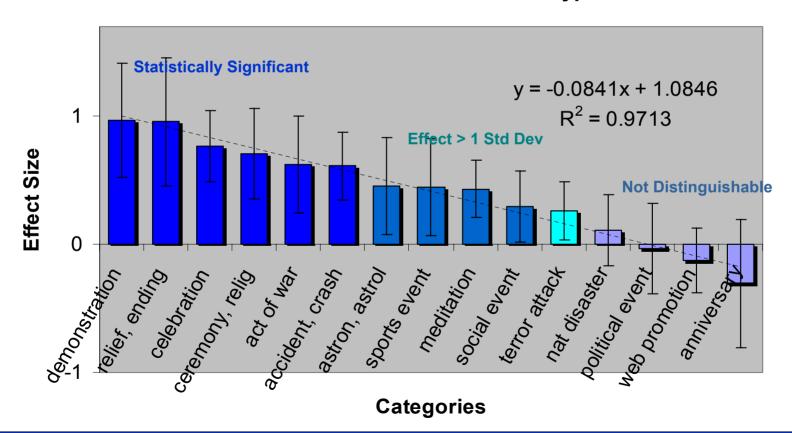
Questions outnumber answers

Great numbers & Deep engagement but...

Does distance from the focus matter?
How about relevance to local people?
Is human consciousness necessary?
Are "experimenter effects" the source?
What kinds of events are "strongest"?
Is the effect repeatable and reliable?

Grouping into Reasonable Categories Shows a Substantial Differentiation

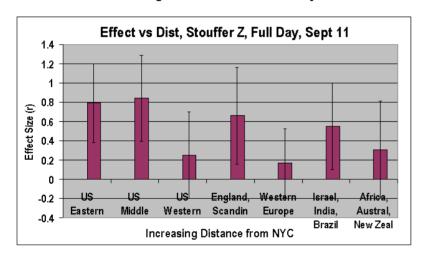
Effects as a Function of Event Type



Most questions are more complex than they seem, and how you ask makes a big difference. Here are two perspectives on Distance

Meanshift

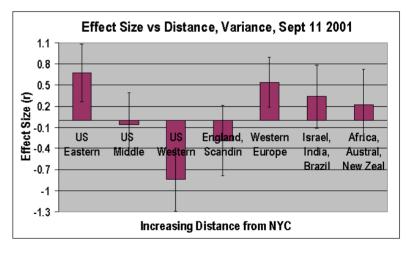
Distance: Effect sizes for the 11 hours beginning with the Attack, Continuing to the end of the GMT day



Bottom line: It looks like there is modest evidence that closer eggs show bigger effect. *And see also*

Variance

Distance: Effect Sizes Calculated for the Device Variance During 20 Hours Beginning at 00:00 on Sept 11th, EDT



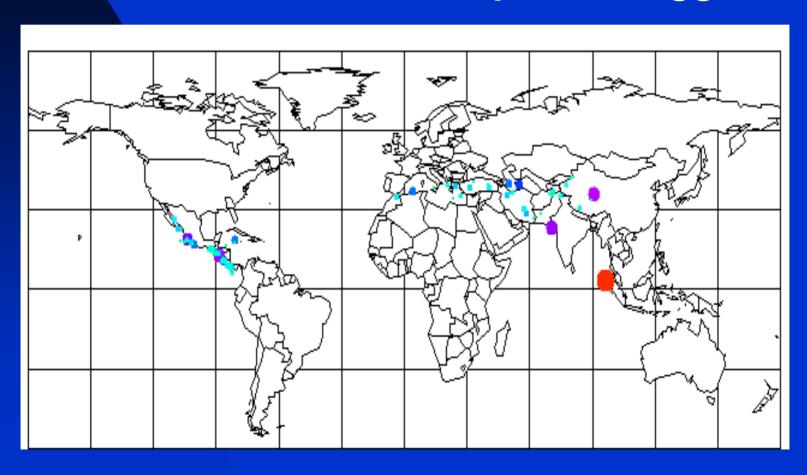
Dean Radin, Distance effects of Johrei Healing

Through technology and sheer numbers, people have become a geological force, shaping the planet's future just as rivers and earthquakes shaped its past.

Eventually, global society, guided by science, may soften the human environmental impact, and earth will become a "noosphere," a planet of the mind.

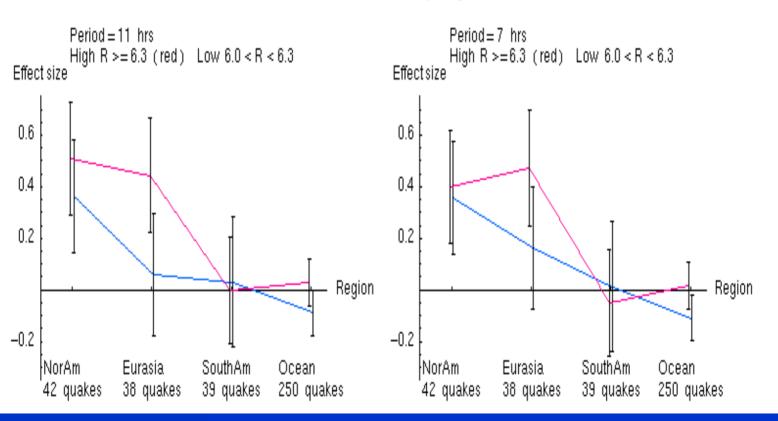
- - Vladimir I. Vernadsky, 1926

Earthquakes: A GCP Network Response Map of Quakes: Richter 6 or More Land Masses with People and Eggs

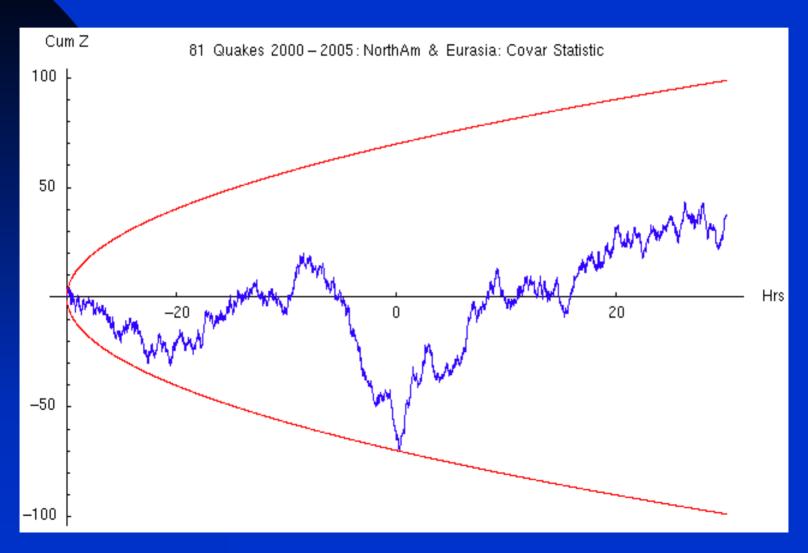


Earthquakes: EGG Network Responds To large quakes, Richter 6 or more If they occur in populated areas

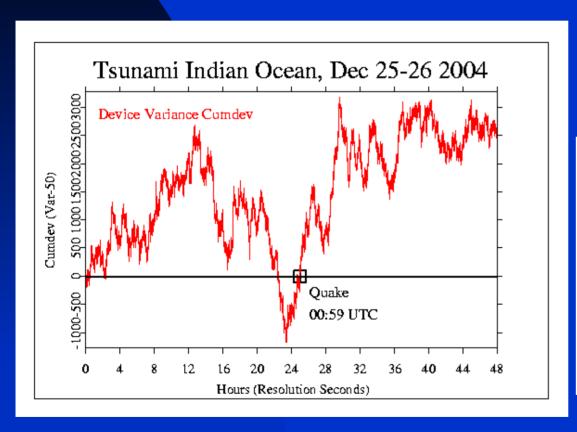




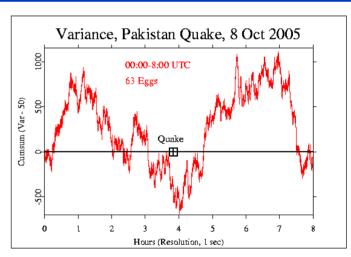
Cumulative Deviation of Covariance Measure Quake Moment +/- 30 Hours



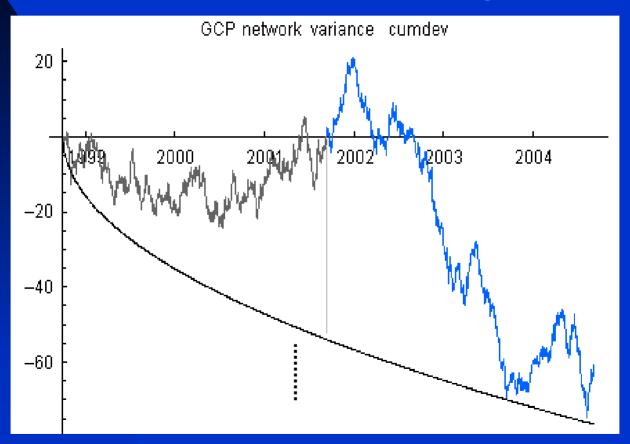
The Indian Ocean Tsunami had a Profound effect on people around the world The GCP/EGG network responded sharply



And more recently In Pakistan & Kashmir

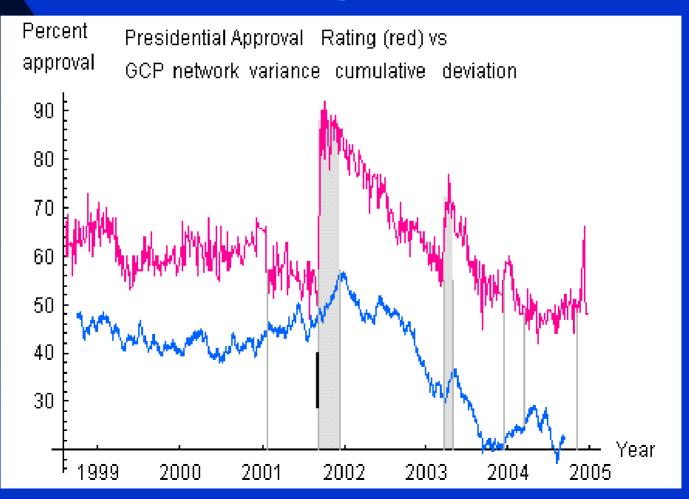


Background Long-term Trend: Network Variance (~Stouffer Z²) Cumulative Deviation, Daily Values



This Downward Trend is Significant

Long-term Trend: Independent Correlation With a Sociological Measure?



Bigger Picture: What is our aspiration?

Sharpen and focus our questions Aim for theoretical understanding

Capture insight about creative mind Consider evidence that we are one Contribute to better future for culture

Theory?

David Bohm, The Implicate Order

Active Information: Virtual Field, Actualized at Need

e.g. Disease = Chaos, "need" for structure Remote healing, prayer

e.g. GCP Eggs = Random, open for structure Engaged attention, compassion

Now, if the cooperation of some thousands of millions of cells in our brain can produce our consciousness, a true singularity, the idea becomes vastly more plausible that the cooperation of humanity, or some sections of it, may determine what Comte calls a Great Being.

- - J.B.S. Haldane

We think the world apart. What would it be like to think the world together?

-- Parker Palmer, educator



http://noosphere.princeton.edu