

Howell - Paul Anderson's "Electric scarring of the Earth's surface"

Bill Howell, 02Sep2012 draft, 03Sep2012 image links, additional emails & writing, 08Sep2012 – added comments related to the destruction & burial of cities and societies.

Summary

From the Natural Philosophy Alliance (NPA) website :

Paul E. Anderson

[Electric Scarring of the Earth's Surface](#)

[Video Lecture](#)

Thursday, July 26, 2012 at 1:30 PM

Link to recording: <http://youtu.be/X9C4Tx2zC3c>

This paper explores the hypothesis that most canyons and riverbeds were initially formed by electrical events and not by fluvial erosion. The macroscale appearance of river beds, mountain ranges, and other geological features exhibit characteristics which are typical of electric scarring on a die.



This wonderful and stunning paper and presentation was part of the NPA 19 conference in Albuquerque, New Mexico, 25-28Jul2012. Proceedings are available on the NPA website. I was NOT present for the meeting, unfortunately. I very much enjoy the wide open thinking of the NPA community.

Some of my communications on this paper and related concepts are included in this report. While I'm not comfortable that there is a solid basis to claim that "most" canyons and riverbeds were electrically formed, nor that there is overwhelming support that any are, I do think that Anderson's points are interesting and strong for at least some areas. But then, I favour an attitude of sustaining "multiple conflicting hypothesis", rather than feeling we have to know the final truth at a very early stage, or even at the final stage!

But keep in mind a crucial point of the Electric Universe community that is repeated by Paul Anderson – plasma (electric) phenomena scale from the the scale of centimeters to the scale of galaxies. Experiments in the plasma lab produce similar results to that seen in astronomy and geology. That alone should give the reader as much or more confidence than for most other conceptual basis.

endpage

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Status as of ?date?:

- 120902 1st draft – missing my email to a geologist, there is little in the way of written content by me, as I am trying to get links set up to videos and images first.

endsection

Introduction

[120902 Howell - much of the written content remains to be created...]

This report is not so much a review of Paul Anderson's paper, as it is a compilation of many of the images referred to in his paper, together with images that I have retrieved for Alberta in Canada, plus a limited conceptual and historical context for Paul's ideas.

Electric Universe / plasma theories (of which there are many variants) suggest that rock can be literally "dis-aggregated" by electrical stresses and pulled out of the ground in some areas, to be deposited as dust, rock, and boulders elsewhere on the same [planet, moon], or might be pulled into space for distribution elsewhere in the solar system. It is my impression from past reading that some of these ideas go back to Immanuel Velikovsky book "Worlds in Collision" or "Earth in Upheaval" from the 1950's, and may predate Velikovsky by 50 or 100 years (to be verified). I had first heard this in relation to craters on planets, moons, and the Earth, and comments regarding the Grand Canyon had also been made. A 3D photo presentation by ?name? At the EU2012 conference in Las Vegas showed canyons and "deposit areas" on Mars that were strong support for the EU type of theories. Anderson's paper is the first that I have seen that describes multiple sites on Earth, and his paper is also the first I've seen that quantifies "geographical or geological" similarities with known electrical discharge effects on or in materials.

Anderson's case for Electric scarring of the Earth 's surface

Video of Anderson's presentation at NPA 19 in Albuquerque NM

Paul Anderson's presentation is a good place to start, complementing the paper with a range of images and explanations that don't appear in the paper.

<http://www.youtube.com/watch?v=X9C4Tx2zC3c&feature=youtu.be>

Anderson's paper, this document, and a web directory for images

A scanned, annotated version of Paul Anderson's paper can be found at :

<http://www.billhowell.ca/Electric Universe/Anderson 120825 Electric scarring of the Earth/Howell 120903 Paul Anderson's Electric scarring of the Earth.pdf>

To order a clean version of the paper, click on :

<http://www.lulu.com/shop/greg-volk/19th-natural-philosophy-alliance-proceedings/paperback/product-20265413.html>

or go through the NPA website:

<http://www.worldnpa.org/site/npa-proceedings/>

All images that I have included in this document can be found at the following web directory, where both this document and the annotated paper are also stored :

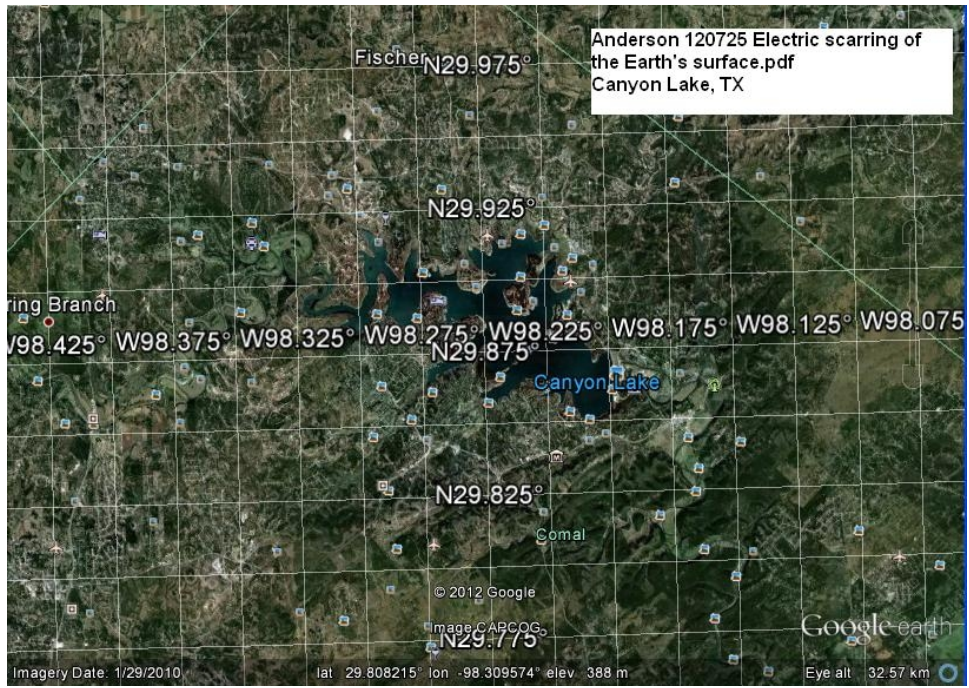
<http://www.BillHowell.ca/Electric Universe/Anderson 120825 Electric scarring of the Earth>

The reader can therefore view the following images in higher resolution that will be the case for the pdf version of this report (i.e. zoom in and out easily from your browser - "Control++" to zoom n, "Control--" to zoom out). As I use LibreOffice (the modern Oracle-independent version of the old OpenOffice or StarOffice), most users won't be able the view the document file (format with file extension ".odt").

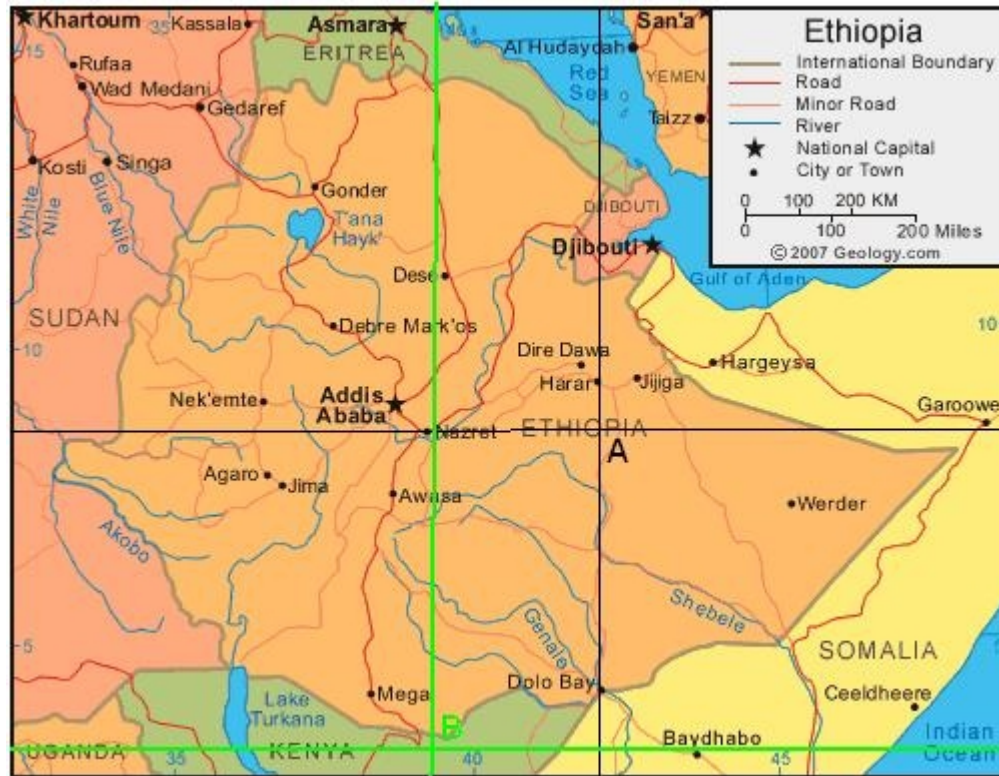
For convenience, I have also put hyper-links in this document for each image.

endpage

Anderson – unknown origins



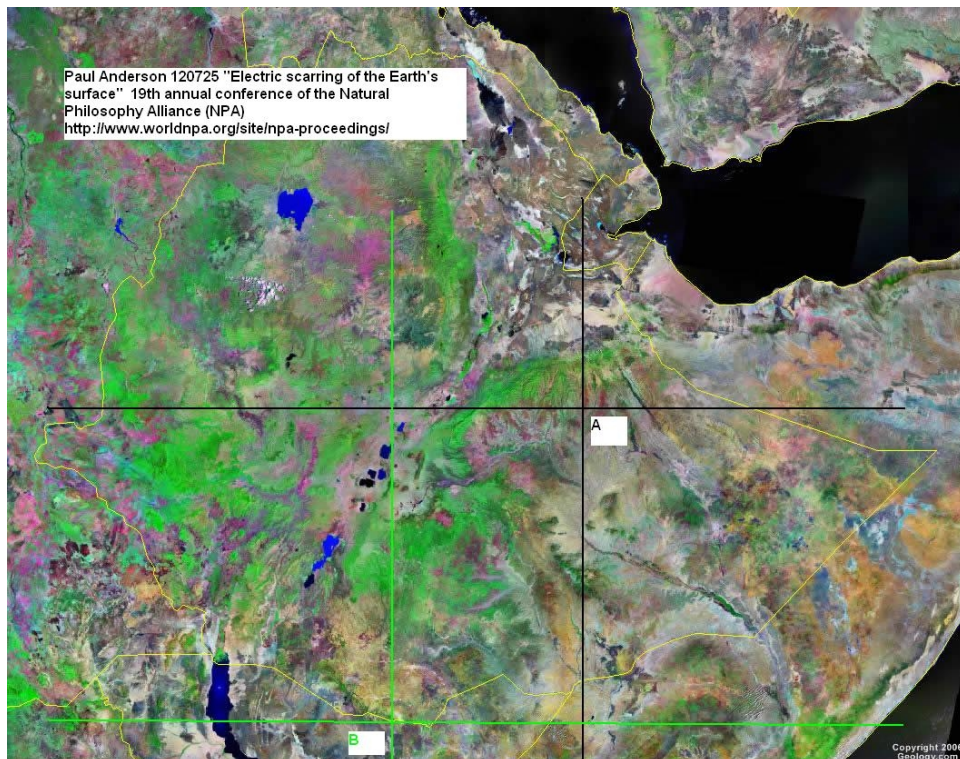
Anderson - Canyon Lake, TX.JPG



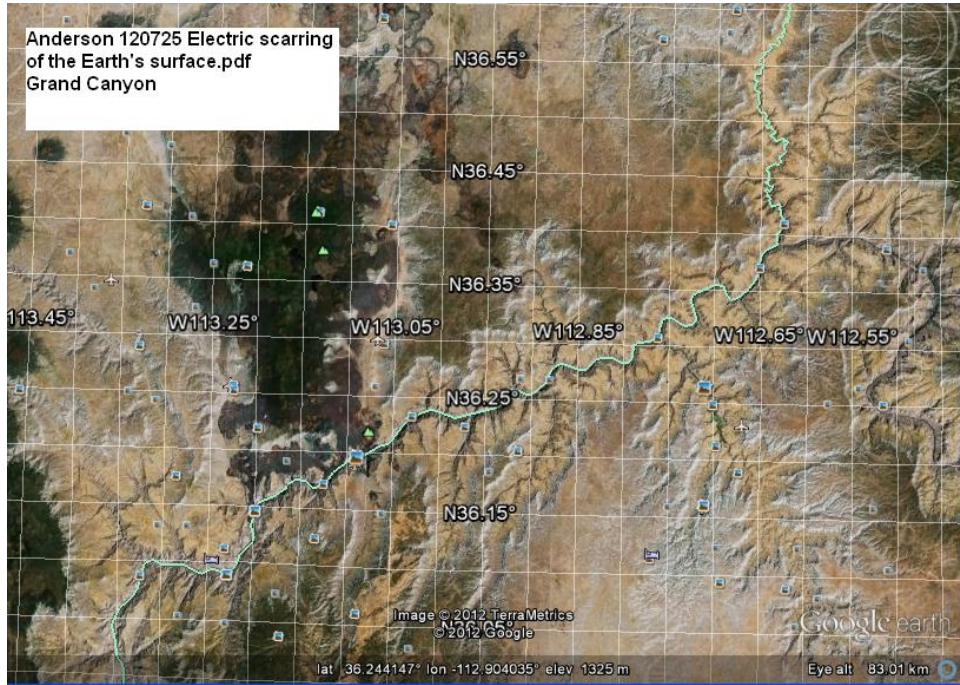
Anderson - Ethiopia map.JPG



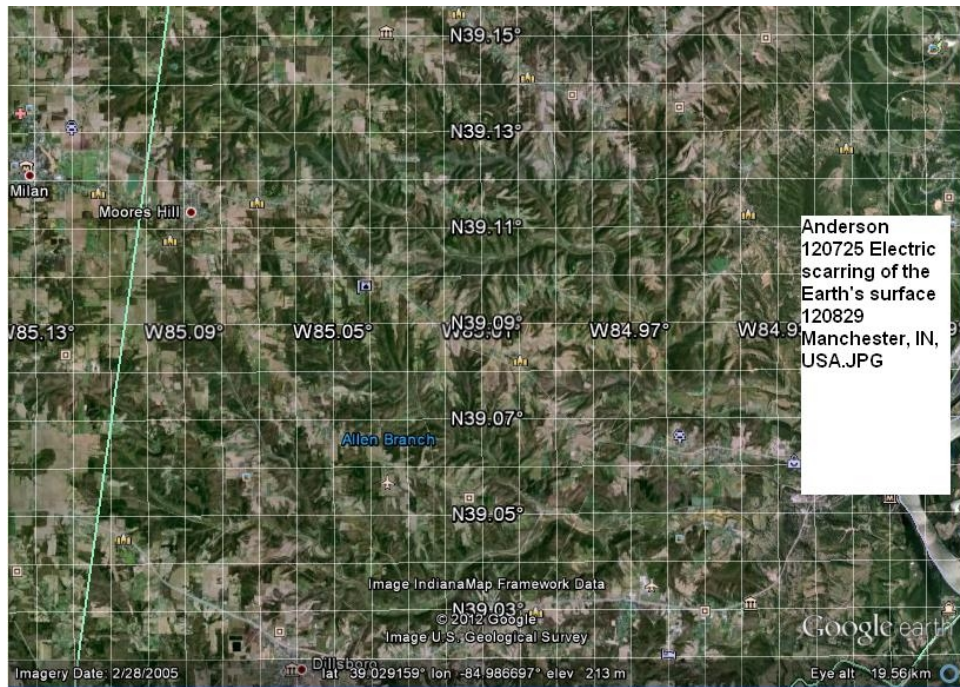
Anderson - Ethiopian electric scarring - point A.JPG



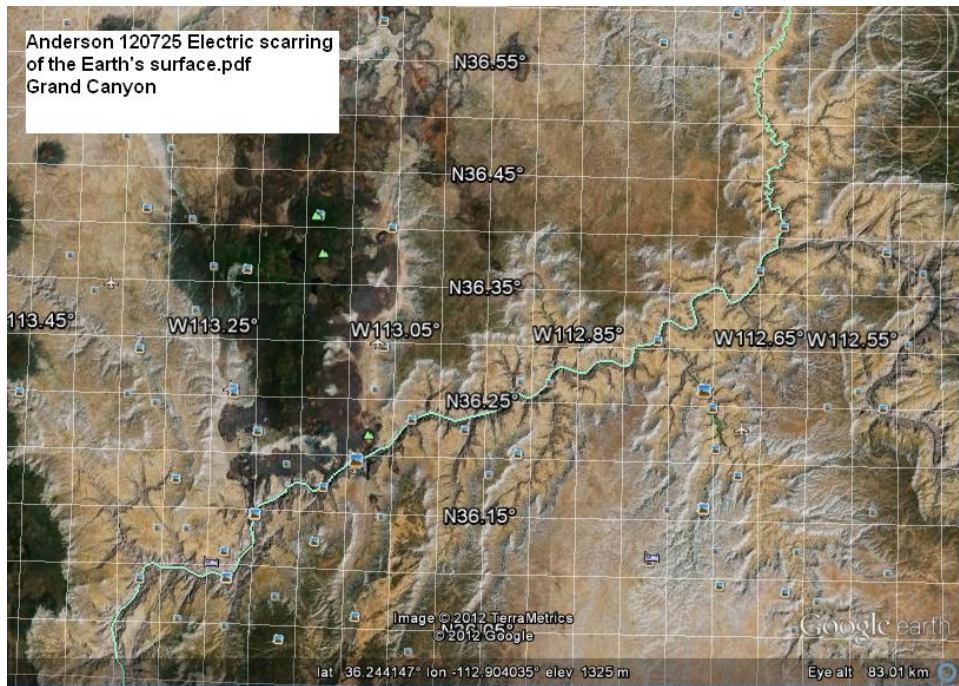
Anderson - Ethiopia satellite image.jpg



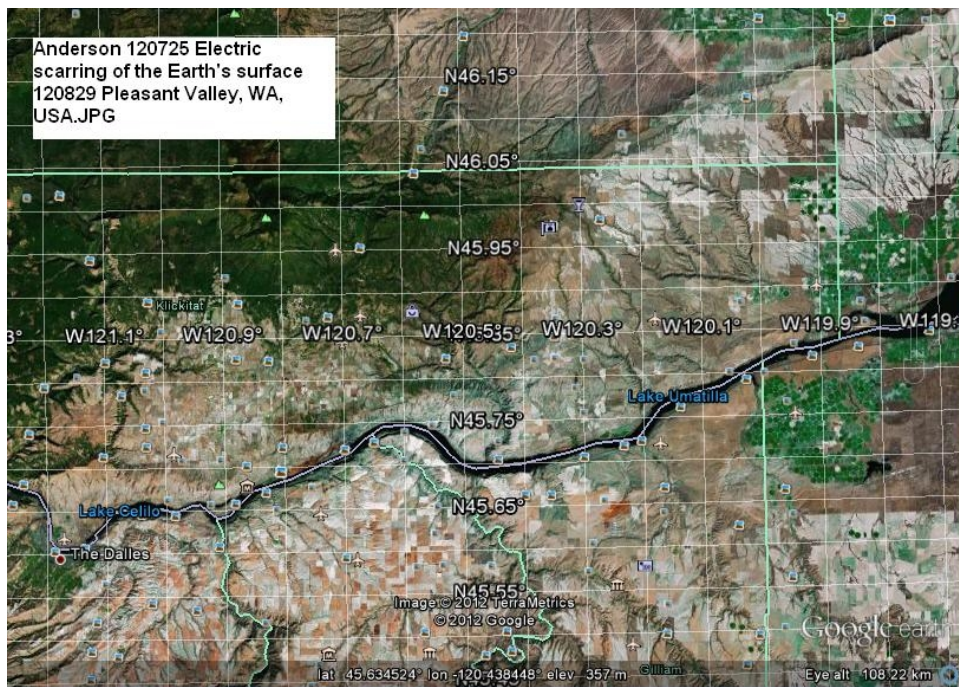
Anderson - Grand Canyon.JPG



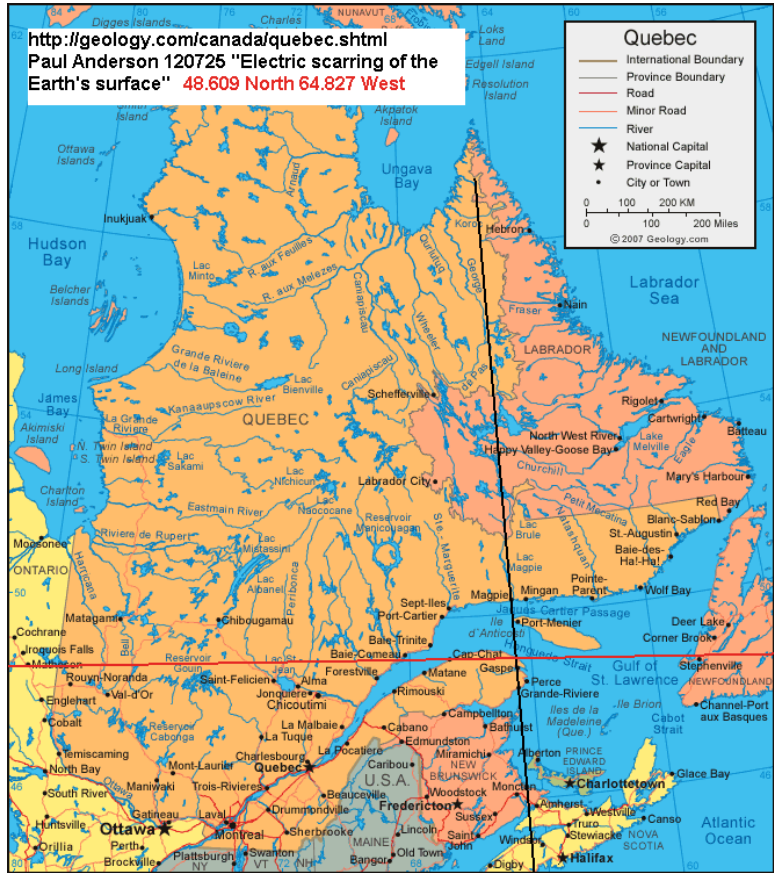
Anderson - Manchester, IN, USA.JPG



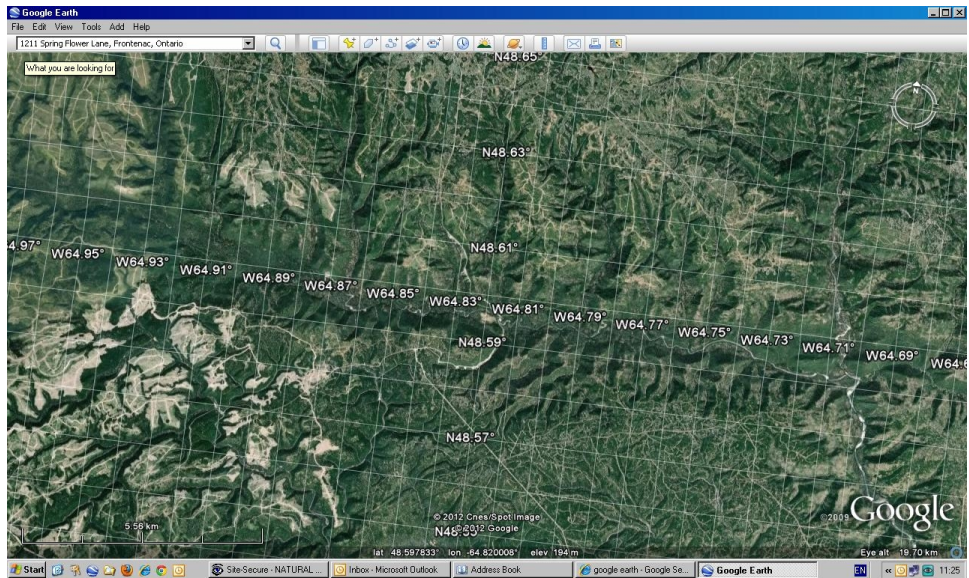
Anderson - North Grand Canyon.JPG



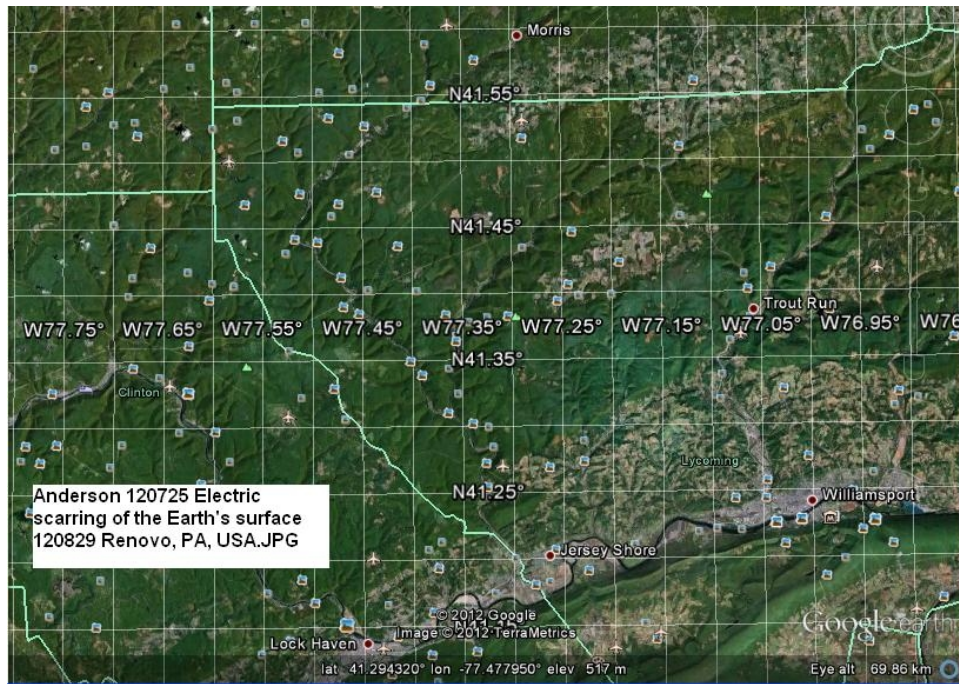
Anderson - Pleasant Valley, WA, USA.JPG



Anderson - Quebec map 48_609 North 64_827 West.jpg.gif



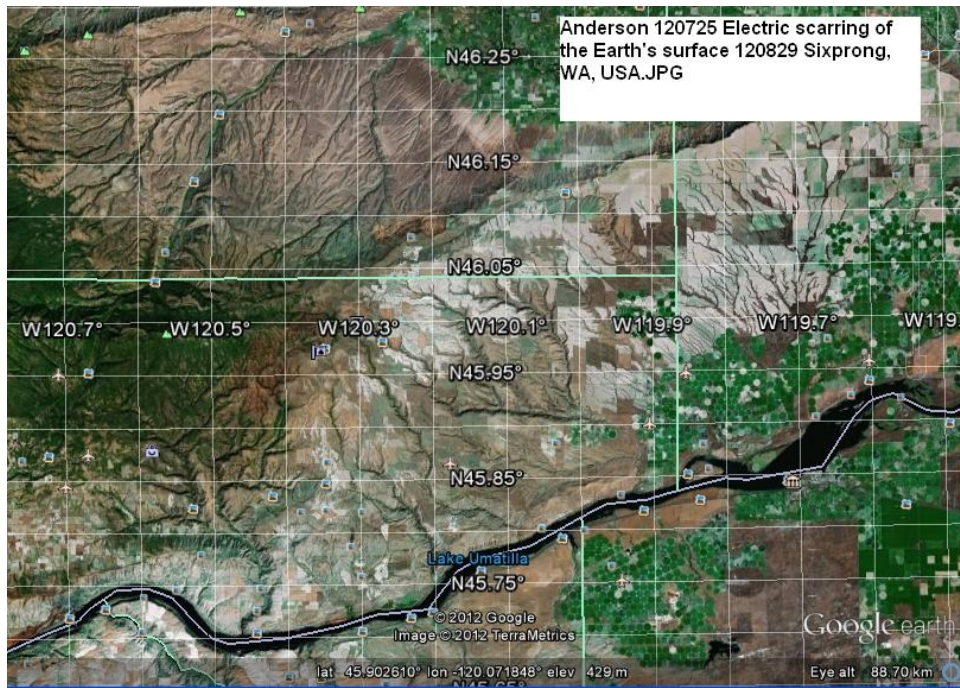
Anderson - Quebec satellite 48_609 North 64_827 West.jpg



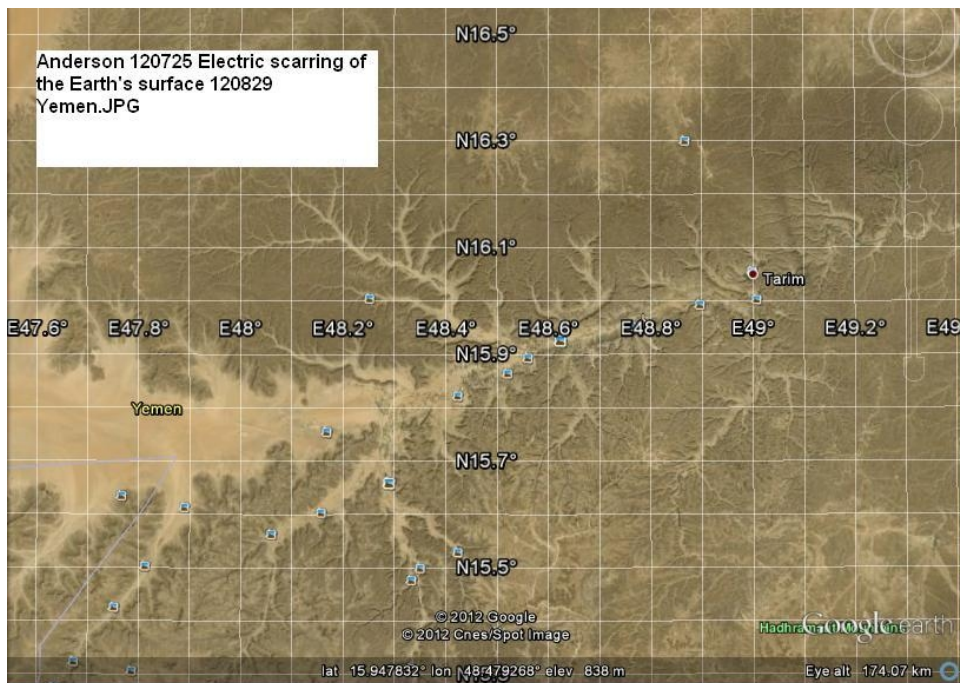
Anderson - Renovo, PA, USA.JPG



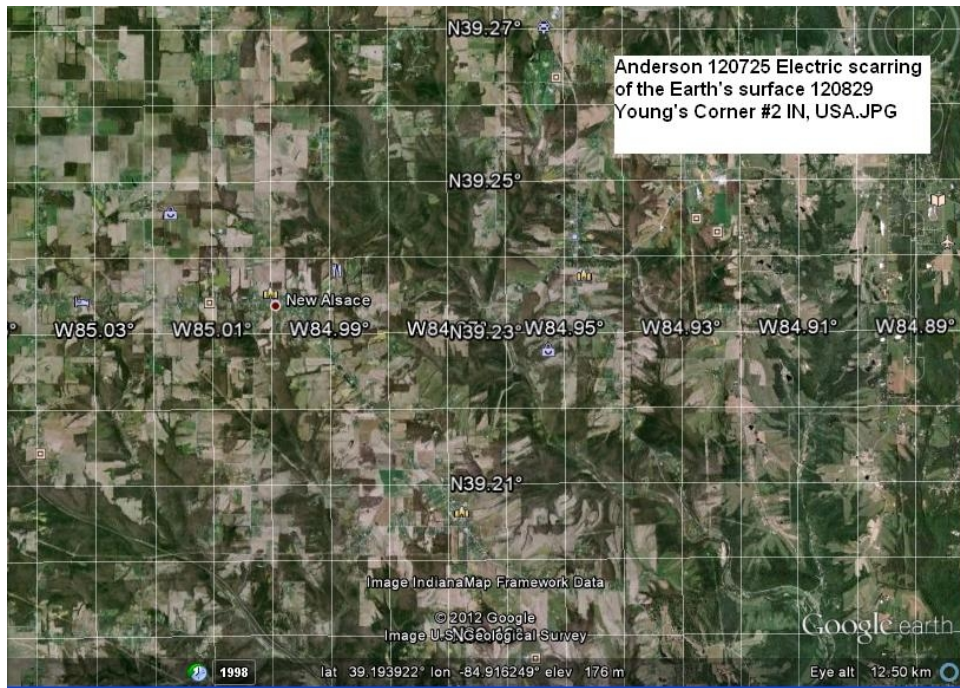
Anderson - Scablands, WA, USA.JPG



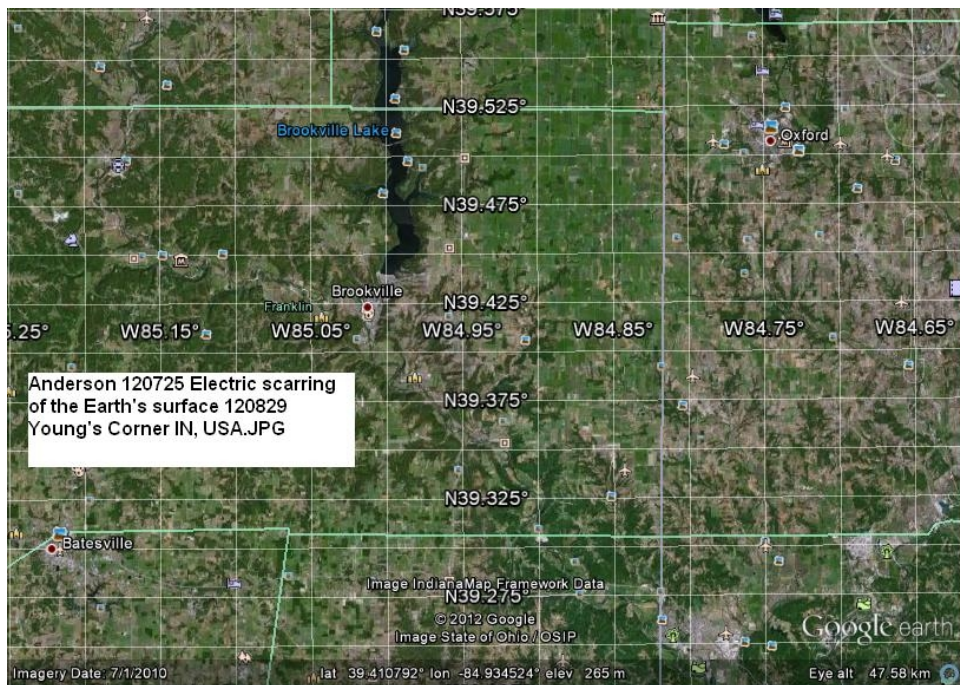
Anderson - Sixprong, WA, USA.JPG



Anderson - Yemen.JPG



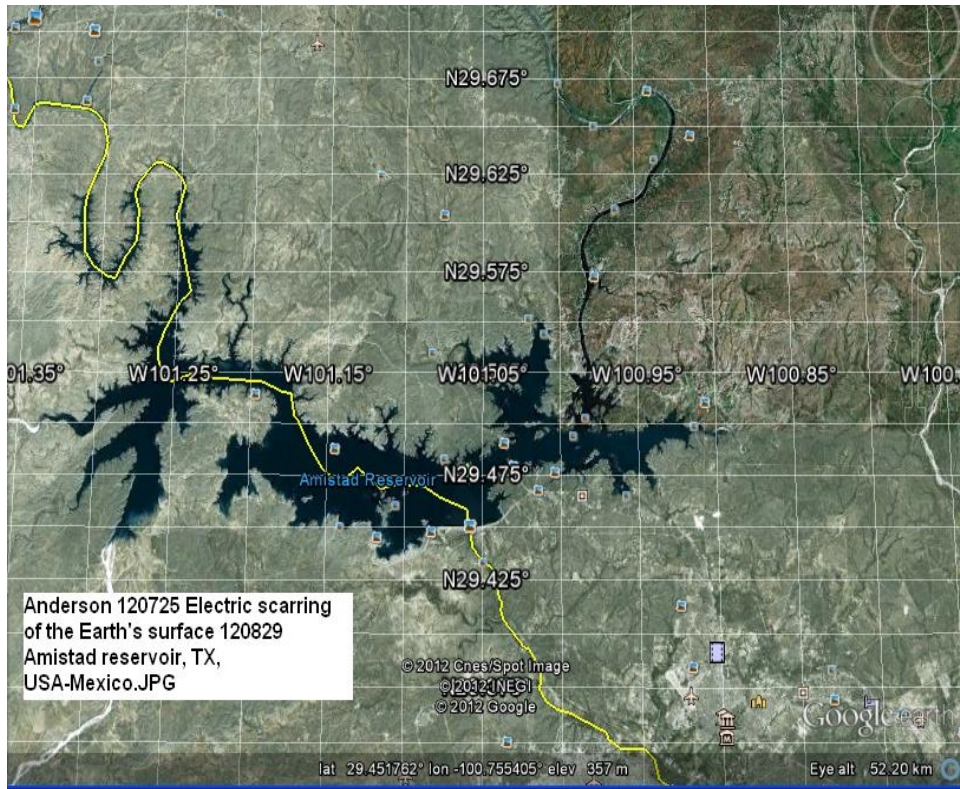
Anderson - Young's Corner #2 IN, USA.JPG



Anderson - Young's Corner IN, USA.JPG

endsection

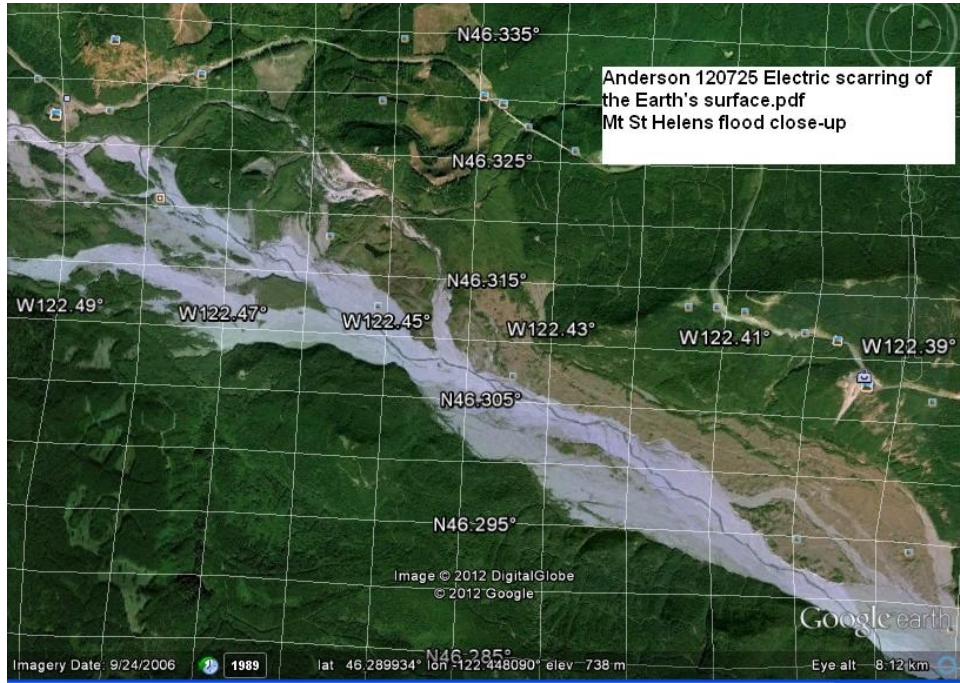
Anderson – fluvial systems



Anderson - Amistad reservoir, TX, USA-Mexico.JPG



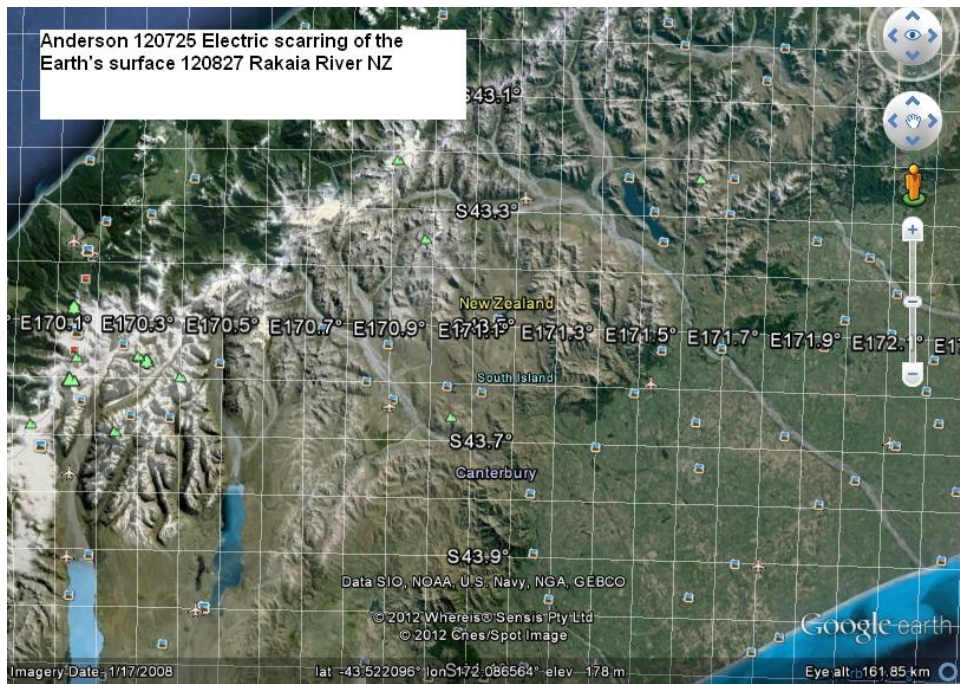
Anderson – Armistad.JPG



Anderson - Mt St Helens flood close-up.JPG



Anderson - Rakaia River NZ.JPG



Anderson - Rakaia River NZ including mountains.JPG



Anderson - Waimakariri River NZ.JPG

Anderson - Electrical effects

The following websites were specified by Paul Anderson as being sources for some of his data sources, especially for known electrical phenomena. I retrieved images for all but the first site listed. As such, I am missing most of the pictures that Paul Anderson analyzed, mostly due to problems accessing web-pages.

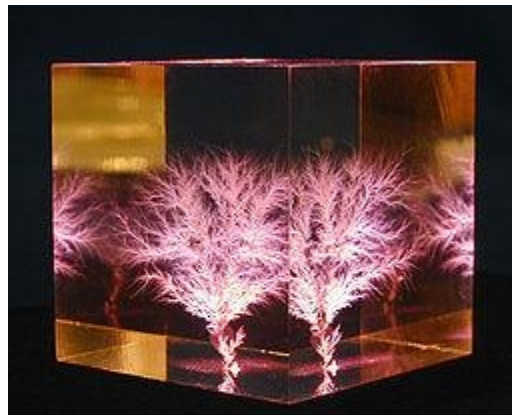
www.chaos-101.com/?page_id=41 - couldn't access

<http://akiroom.com/redbook-e/collection2/tnk01.html> - OK, got the Lichtenberg pattern in polyethylene

www.cosmosvolts.com - "parked domain" blocked by nrcan

www.absoluteastronomy.com/topics/Electrical_treeing

Here are a few, which should give the reader a bit of a feel for what these look like.



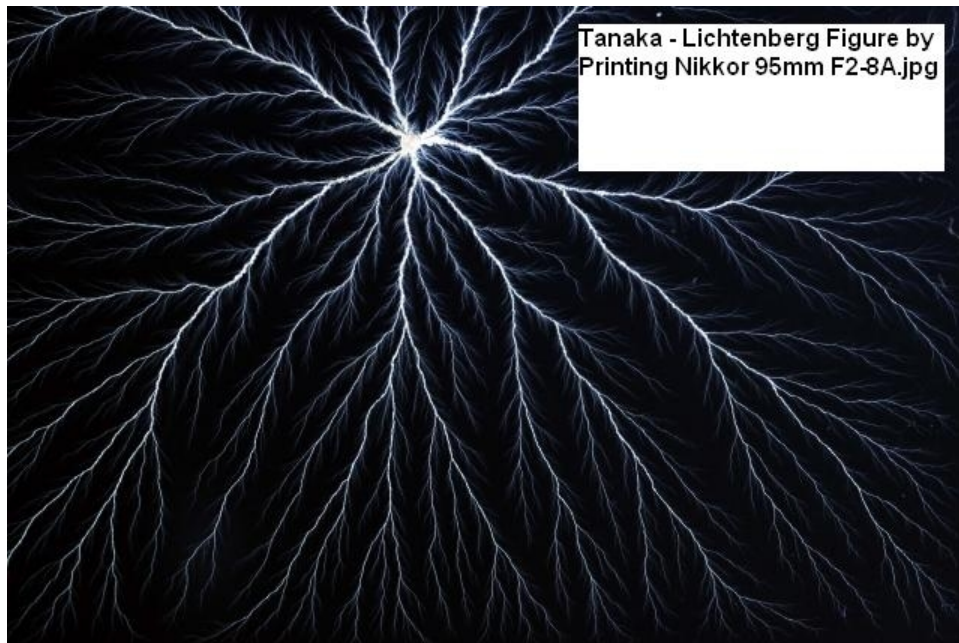
Anderson 120725 Electric
scarring of the Earth's surface
120829 Electrical treeing #1.JPG
[www.absoluteastronomy.com/to
pics/Electrical_treeing](http://www.absoluteastronomy.com/topics/Electrical_treeing)

Anderson - Electrical treeing #1.JPG



Anderson 120725 Electric
scarring of the Earth's surface
120829 Electrical treeing #2.JPG
[www.absoluteastronomy.com/to
pics/Electrical_treeing](http://www.absoluteastronomy.com/to pics/Electrical_treeing)

Anderson - Electrical treeing #2.JPG

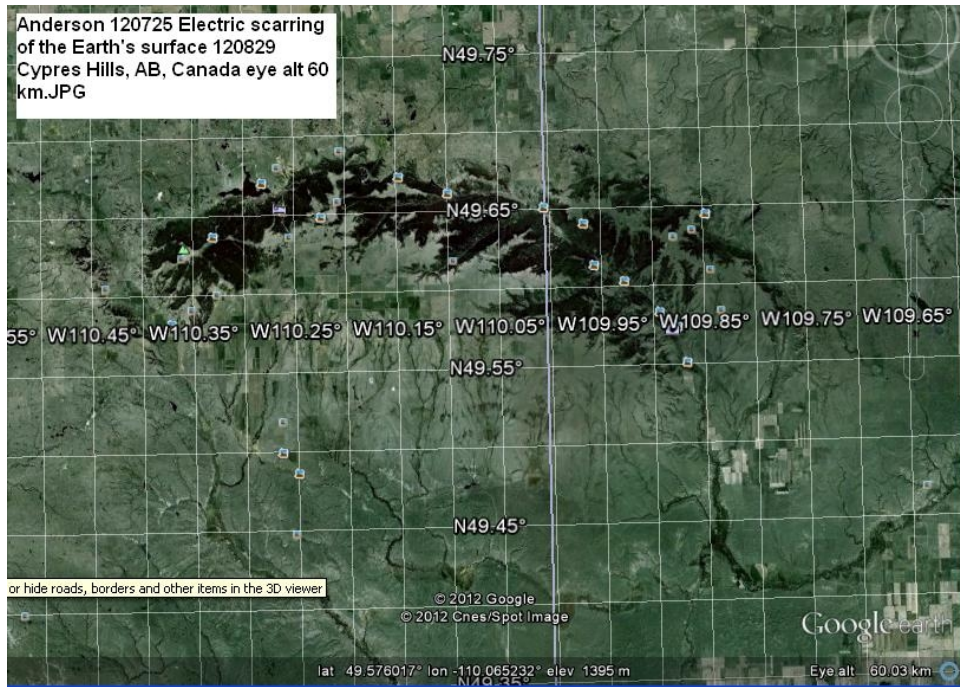


Tanaka - Lichtenberg Figure by
Printing Nikkor 95mm F2-8A.jpg

Anderson - Tanaka's Lichtenberg Figure by Printing Nikkor 95mm F2-8A tnk2120.jpg

Howell - Additional images

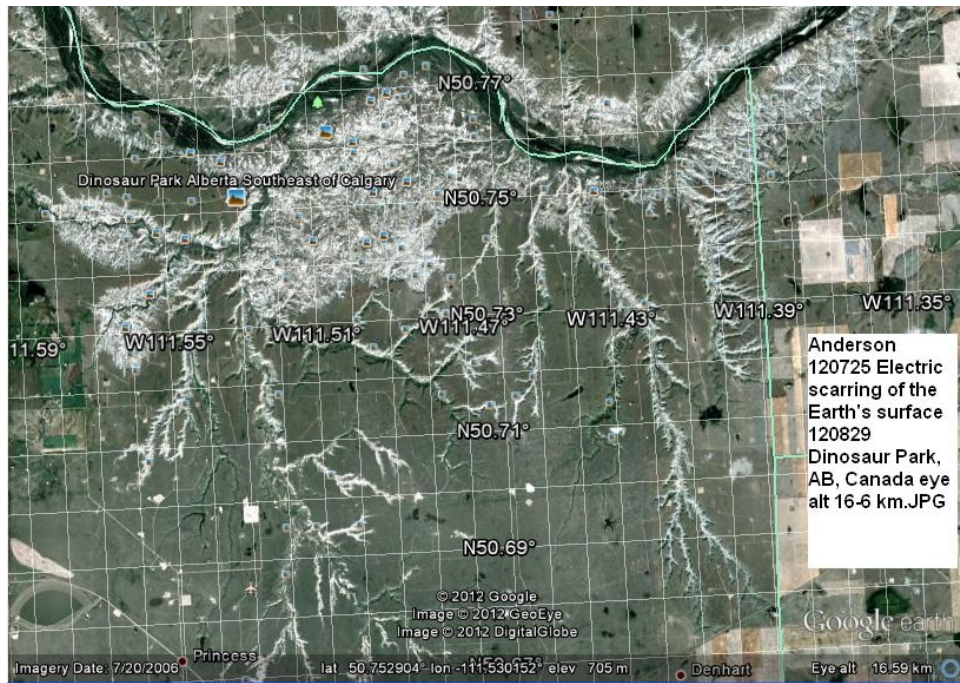
The images that I have added so far are from Alberta, Canada, which provides some striking examples of electric-like canyons.



Howell - Cypress Hills, AB, Canada eye alt 60 km.JPG



Howell - Dinosaur Park, AB, Canada eye alt 10-4 km.JPG



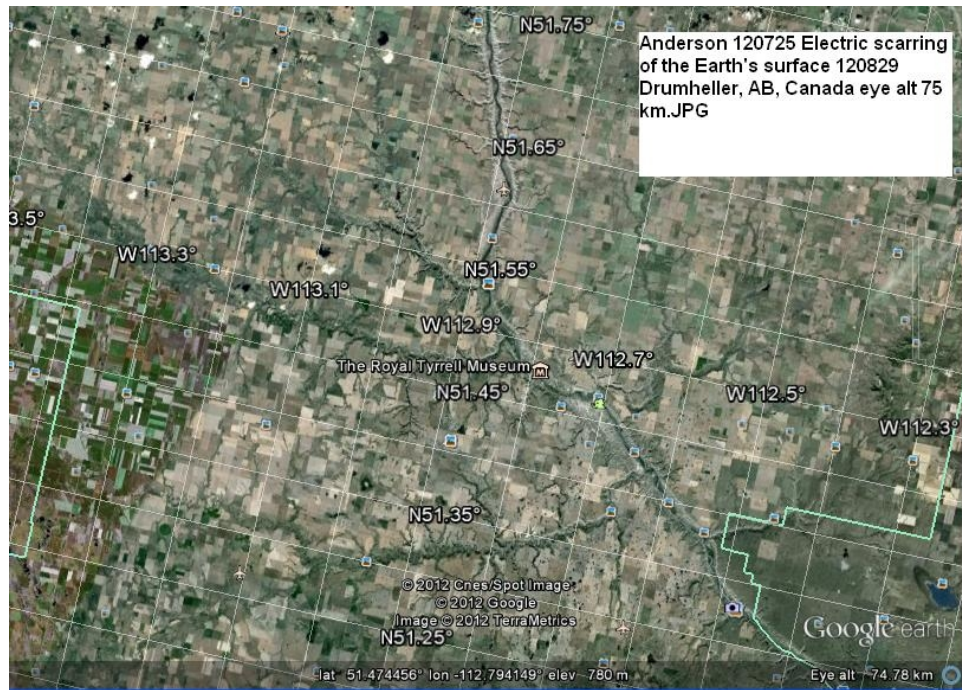
Howell - Dinosaur Park, AB, Canada eye alt 16-6 km.JPG



Howell - Drumheller, AB, Canada eye alt 4-74 km.JPG



Howell - Drumheller, AB, Canada eye alt 21 km.JPG



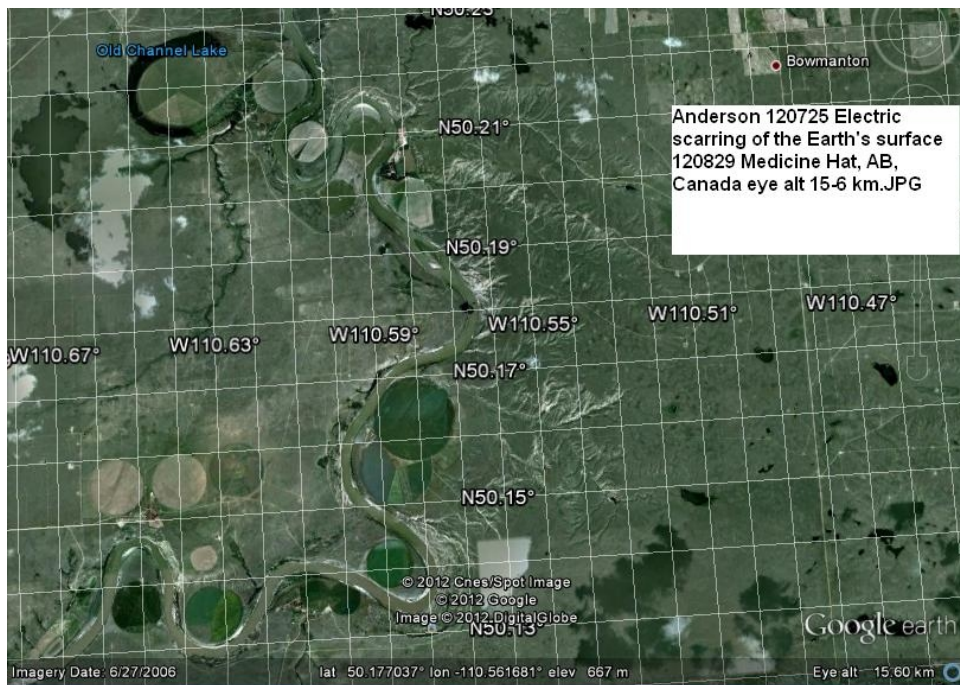
Howell - Drumheller, AB, Canada eye alt 75 km.JPG



Howell - Lynda Dredge's Marine Silt and Slump Scars Along Kennarctic River, Nunavut.jpg



Howell - Medicine Hat, AB, Canada eye alt 5-7 km.JPG



Howell - Medicine Hat, AB, Canada eye alt 15-6 km.JPG



Howell - Rosebud near Drumheller, AB, Canada eye alt 33 km.JPG

endsection

Context for Paul Anderson's work

Lightening scarred planet mars, narrated by David Talbot

Part I http://www.youtube.com/watch?v=V_T6_JDeyw&feature=related
http://www.youtube.com/watch?feature=player_embedded&v=V_T6_JDeyw

Part II <http://www.youtube.com/watch?v=U-qrnsh83f4&feature=relmfu>

For several years the Electric Universe community has been pointing out that craters on planets and moons, including the Earth, are not always meteorite impact craters, or of volcanic origin. I have been reading and hearing for several years from authors and amateurs (in the best sense of the word, often beating experts in their own field of expertise) that the Grand Canyon is not well explained by water erosion (or seismic events).

Features on Mars are often taken as evidence that water once flowed over the planet's surface, a very long time ago. David Talbot and colleagues challenges those ideas, showing that electric discharge machining concepts based on plasma physics have a better explanation for some of the features. Better yet, you can do experiments in the lab to get similar results.

3D presentation of the surface features of Mars

At the Electric Universe 2012 conference in Las Vegas ?name? Gave a stunning 3D (with glasses) presentation of very high resolution photos of canyons and other features on Mars, providing very convincing evidence that many (but not necessarily all) of these fit electric discharge mechanisms better than conventional theories that assume water erosion, volcanism, or seismic/tectonic activity.

[120903 Howell – I'll have to find his name later ...]

Electric Universe (EU) Community – Thunderbolts blog

<http://www.thunderbolts.info> - for the overall Thunderbolts website..

The EU community is key to promoting electrical phenomena as a good explanation for many phenomena in [physics, astronomy, geology, solar science, atmosphere, geology, environment, history, mythology, etc], carrying on a tradition even predating Birkeland in the late 1800's. For the last 110 years electrical concepts have been studiously ignore and attacked by mainstream scientists, in spite of a long series of successes, and a great potential for the future. I'm not saying that they are right or wrong about any particular concept, but that this perspective is important for any strong thinker.

The NPA and EU communities have been collaborating at least since the NPA 18 conference in

Maryland, Jul2011. Here has been tremendous cross-fertilisation between the groups, even though their interests only partially overlap. But that overlap is proving to be very fruitful.

For this first-draft report, I am NO going to go through the EU blog in detail (time limitations), but only provide one of the links.

Natural Philosophy Alliance community

<http://www.worldnpa.org/site/> - for the overall NPA website

As with the Electric Universe, this community is wide open to new ideas, and to challenge the great scientific religions of our day – for which mainstream science will ruin the careers of those who dare to challenge them.

Anthony Peratt's theory for petroglyphs

Paul Anderson's paper may fit right into the context of Anthon Peratt's work on petroglyphs – perhaps in a localised manner to describe canyon and crater formation resulting from the great plasma displays (z-pinch auroras). Here I will simply copy my web-log (“New Materials”) content waiting for both papers that I've mentioned:

08Sep12 Anthony Peratt's "Characteristics for the Occurrence of a High-Current Z -Pinch Aurora as Recorded in Antiquity Part II: Directionality and Source" -

I've been a huge fan of Peratt's Dec2003 paper on petroglyphs (actually, he has many papers) since I first saw it in perhaps 2007 or 2008, and only when I read Paul Anderson's paper (end of August 2012) did I find out that he published Part II, with a Part III coming out as well (I couldn't find it via Google search so I assume it is still pending). Apparently David Talbot and other Electric Universe mythologist had initially convinced Peratt to look at petroglyphs from the perspective of high energy atmospheric plasmas, and it looks like Peratt really grabbed the ball and ran with it!

Both papers are ingenious in terms of their creativity, scientific thoroughness and insight, and in terms of how well they tie the hypothesis (that high energy z-pinch auroras were the inspiration for as many as 40% of ancient petroglyphs and megaliths like Stonehenge) to ancient societies right around the world. The 3D holographic reconstruction of ancient plasma phenomena from thousands of petroglyphs around the world is unbelievable – rarely do I see such a combination of science, talent, and imagination!

It's great to see the degree of international assistance, often by enthusiastic volunteers, native groups, and retired professors. Obviously the theme has really touched a human chord.

One key question, though : The 3D image of the plasma system that was supposedly "holographically" reconstructed from thousands of petroglyphs around the world, resembles very closely "polar alignment structures" derived from mythology and proposed by ?Velikovsky", David Talbot ("The Saturn Myth"), Duardu Cordonna (?spelling - my books are in storage?), and probably others as well. So is that configuration truly :data driven", or are several alterantive interpretations possible depending on how one does the reconstructions?

19May09 Anthony Peratt's theme of Petroglyphs and Auroral phenomena - Here's an interesting hypothesis regarding high-energy auroral phenomena as an explanation of petroglyphs (rock drawings)around the world.

Destruction and burial of cities and regions

The film :

History Channel 08mdd "Journey to 10,000 BC : The real story of prehistoric man's fight for survival" Producer: Gabriel Gornell; Director: David Padrusch

states that the main center of Clovis culture in North America may have been the ?? peninsula (East side of Chesapeake Bay). However, roughly 12,900 years ago the local Clovis culture disappeared, and there seems to have been a very rapid migration away from the area. Furthermore, the peninsula was buried under ~ 1.5 feet of dust. Coincidental with the disappearance of the Clovis culture in that area was the extinction of the large North American mammals (including smilodon – the sabre-toothed cat, most mammoths, etc; and with the exception of the bison), and the sudden onset of the very cold Younger Dryas.

The film suggests that the conventional theory is that the melting of the Laurentian ice sheet dumped a vast amount of fresh water into the North Atlantic via the St Lawrence river. This disrupted the ocean haline / circulation, and changed the climate quickly. A new theory, promoted by Allan West in ?? University, is that a meteorite impact was responsible. This is supported by 4 nanometer diamonds, metallic micro-spherules, and buckey-balls (these supposedly are commonly associated with meteors?).

However, the electric discharge machining (scarring) hypothesis may be able to explain all of the details of the conventional theories, as well the regional deposition of massive amounts of dust, rocks, and boulders in a very short period of time.

Perhaps someone will extend this concept to cities in antiquity – particularly where there are many layers of a cities built one on top of the other. One example already suggested is the ancient (10,000 BC?) site of Göbekli Tepe (in southeastern Turkey), as described by **Robert Schoch** :

<http://www.thunderbolts.info/wp/resources/electric-universe-2012-conference-dvds/>

In his presentation, Schoch explains how the Gobekli site was completely buried, seemingly quickly, by the society that wanted to protect it from devastating events (possibly thunderbolt discharges). But might this have been the result of the dumping of material from electric discharge machining events?

Another very interesting comment by Schoch is that the alphabet of the Easter Island society that built the figureheads, has a close resemblance to the z-pinch aurora figures preserved in petroglyphs!!

endsection

Howell's Communications Log

Here are some of my own communications on this subject, often with "shoot from the hip" interpretations, so take everything with a grain of salt.

As usual, names have been removed to protect the innocent (and to avoid spending huge amounts of my time getting permission to include!). All work-related references have been removed.

Recent emails and other communication related to Paul Anderson's paper

Comment by Abdi Farah? - electric scarring as means of burial off ancient cities!!

Abdi is co-founder and host for a Somalian radio program Sunday afternoons on the CFRA radio station in Ottawa. His program has a large following by the Somalian community, not only in Ottawa, but across North America, and even in Somalia.

<http://cod.ckcufm.com/programs/35/info.html>

Hosted by: Voice Of Somalia and Abdi Farah every Sunday from 6:00 PM to 7:00 PM

I discussed Anderson's paper with him, and showed him the scarring in Ethiopia. He asked what happened to the material that was extracted if there was nothing much around the site of extraction, and I mentioned the dust and debris in the Martian landrover pictures of Mars, as well as the "deposit sites" for [dust, rock, boulders] in the 3D Martian presentation by [name? At EU 2012 Las Vegas.

Abdi immediately commented that this would be an excellent reason for the burial of many ancient cities, such as one finds throughout Somalia and other countries in Africa/ Middle East. I hadn't thought of that, and mentioned the multiple layers of Troy (or as in Isaac Asimov's novel "Nightfall", which I sometimes feel I am living).

This led to my comments in the section "Context for Paul Anderson's work" regarding this possible effect – and was a reason why I soon after picked out this potential effect from the History Channel film "Journey to 10,000 BC", as well as Robert Schoch's comments about the Göbekli Tepe site in southeastern Turkey.

Email to a Geologist with a strong background in surface/ sedimentary "geography"

From: Howell, Bill

Sent: 30 août 2012 16:40

To: [>DS<]

Subject: Paul Anderson "Electric scarring of the Earth's surface"

No Action Requested :

- This is related to personal, rather than work, interests so it has NO priority! However, if this subject is of any interest to you at all, and if you have suggestions for non-fluvial, water-erosion features that resemble sparking discharges, then I would be interested in following up on those.

Dr. [>DS<],

At night and on weekends at home as a side-step from home projects related to physics, astronomy, and history, I have been looking through the attached paper on "Electric scarring of the Earth's surface", which came out in July. To say that it's speculative and un-conventional is an understatement, but it does tie in [qualitatively, observationally] with other analysis that I have seen concerning the possible non-[meteor, volcanic] origins of many [craters, canyons, "channels", etc] on moons and planets, as well as some here on Earth. The author, Paul Anderson, suggests that there are greater fractal dimension similarities between some "canyon systems" (my term, as that's what I was looking at most closely) and the patterns on material surfaces caused by known electric discharge phenomena & experiments, as compared to complex fluvial systems and the "canyon systems".

<<...Anderson 120725 Electric scarring of the Earth's surface.pdf...>>

I used Google Earth to retrieve many of the structures that are summarized in Tables of the paper, and agree on a "rough visual basis only" that the author may have a point, given the examples that he has used. I also pulled out other Google Earth pictures, mostly in Alberta [Drumheller, Dinosaur Park, Medicine Hat, Cypress Hills]. These are often very striking images (which I have on hand if you are interested, plus a DVD on Mars - but I can't seem to find it), but my main problem is that this still doesn't really tell me if those features would arise naturally from water erosion, surface (earthquake, slippage) fractures, or some other well-established, conventional process.

[>EG<], confirmed by [>RK<], suggested that you were the person to talk to about this, and whether you think that conventional theories based on water erosion are sufficient (and perhaps well documented by reduced scale experiments on rock, or documented, long term natural development of these kinds of systems. It's funny that I just noticed that you are Section Head for Hydrogeology. I did speak with [>RK<] about a strange theory for the structure of water near hydrophilic surfaces (I've been following that from time to time over the last year - again I can't say whether it's right or wrong, but it is fun!).

Please do NOT waste any time on this if it is too outlandish for you, or not of any interest. I really enjoy crazy ideas. Most such ideas crash and burn, but in the meantime I have fun and learn far more interesting detail than by always sticking to the tried and true.

Bill Howell ...

Google Earth pictures - early comments on fluvial versus electric

----- Original Message -----

Subject: Google Earth pictures - Anderson 120725 Electric scarring of the Earth's surface.pdf

Date: Mon, 27 Aug 2012 21:52:52 -0400

From: Bill Howell. home email. Ottawa

To: [>N&IH<]

Here are the Satellite photos that I have obtained so far. They installed Google Earth on my computer at work today so over time I can collect more.

Are the "fluvial" sites really a fair representative of erosion / avalanche etc for comparison to the "electrical" structures? If that's the best that geologists confirm as water erosion, then perhaps yes. But I wonder, like the traces on mud flats, if there aren't better water erosion examples. Then again, who's to say there are NO electrical influences on the mudflats? We think not, but astronomers and physicists have been consistently wrong, and they really seem lost with respect to geomagnetism and sunspot activity, so my confidence in these experts is very low.

The "Electric Universe" crowd certainly has far better descriptions, and can relate their concepts to actual scale-experiments in the lab. There may be similar data available for rock erosion from long-term lab experiments?

Bill

For the "Norway Spiral" guy - first impressions and context

From: Howell, Bill

Sent: 21 août 2012 11:47

To: [>CT<]

Cc: [>AD<]

Subject: For the "Norway Spiral" guy : Anderson 120725 Electric scarring of the Earth's surface.pdf

Charles - Holy shit, this is scary if correct!! Hmm, we should be working with these guys. Note the Velikovskian framework - which is sure to have the paper and concepts attacked, as per scientists' behaviour over the last 60+ years. Also, think of the context of the [HARP facility (now closed); Norway Spiral; Martian, lunar etc scarring] ... and pay particular attention to author Paul Anderson's comments regarding sudden increases in solar output (likely well within range of observations of other stars?), and the context of David Scott's NPN electronic sun (I'll have to send another paper on that). Finally - we could perhaps use this as a dupe to discourage alien invasions.

None of this kind of thinking / R&D activity is possible in mainstream government and academic science. You have to be a lunatic.

Get out your reference material on fractal mathematics :

p5c1h0.5 "... By way of contrast, self-similarity in water systems only exists when the existing water body is confined by the self-affine land-forms. In freely open floodplains, it has been shown that water systems and braided rivers are not self-similar. ..."

That says it all, if correct!!! This is also reminiscent of statements by to some EU types regarding the Grand Canyon and several other canyon systems in the USA, as well as many Martian (and lunar) surface features - they couldn't have been water or wind generated.

<...Y:\Data\Howell - personal\EU & NPA\Anderson 120725 Electric scarring of the Earth's surface.pdf...>

Paul Anderson 120725 "Electric scarring of the Earth's surface" 19th annual conference of the Natural Philosophy Alliance (NPA) <http://www.worldnpa.org/site/npa-proceedings/>

Bill Howell

Other crazy comments - bubbling to the surface

Communities that encourage "Multiple conflicting hypothesis"

(non-[localised, consensus, entrapped] thinking)

The attached paper is "yet another" in a long series of emails that I have sent out over the last couple of years related to fundamental physics, astronomy, and Earth Sciences, especially from the perspective of the fantastically diverse super-scientific communities [Electric Universe; Natural Philosophy Alliance; climate skeptics like the Friends of Science; International Nerual Network Society & some other Computational Intelligence communities]. Unlike normal scientific [individuals, organisations, communities, conferences, consensi], these communities, for whatever reason, are capable of listening to extremly diverse concepts that they often disagree with, and of discussing ideas constructively. In other words, in practise they achieve a concept that I try to foce on my own behaviour and thinking : "Multiple conflicting hypothesis".

Electric Universe context is best?

(the only context that actually describes these phenomena?)

The paper is somewhat related to a number of ideas/ activities :

- [120902 Howell – work-related projects have been removed ...]
- History - what is actually recorded in history regarding catastophes and the drivers and course of history as opposed to modern interpretations and dismissals.
- Astronomy & cosmology - Observation-based descriptions beyond the myopic constraints of thinking confined to [gravity, General Theory of Relativity, Quantum mechanics]. Some interesting details are described in a seies of DVDs by the EU types :
- Gravitational anomalies during solar eclipses
- Comet composition and behaviour - electric plasmas driven by non-equilibrium electric potential from highly elliptical orbits, not ice balls! For example : Deep impact (copper projectile hit an asteroid) &

Schumaker-Levy comets hit Jupiter

- Craters on moons and planets - many (and sometimes most) are NOT meteorite impact or volcanic, but probably are Electric Discharge Machining - that applies to many valleys and plateaus, too.
- The Sun's behaviour as a PNP (or NPN?) transistor - David Scott (I have a book of his and many articles) explains the stability of the sun's output, and the nature of the photosphere, corona etc.
- Birkeland current end effects (torsion, tension, shear) - zero-order with distance? - I am currently working (very slowly) on this. If successful, it would completely disrupt a great deal of modern thinking on Astronomy-Earth processes.
- Etc, etc, etc
- Mining & civil engineering - easy to see the implications!
- War - oh boy, what fun... We could even use this to dupe aliens into thinking our planet has become very active recently, and is therefore inappropriate to invade.

Theories and theorists

Theorists are far too often (normally?) hugely "net negative". That is, their "science fashions - cum - science cults - cum - science religions" are one reason for the frequent, long-term catastrophic failure of [rational, logical, scientific] thinking by essentially all scientists, and (in the context of cheating theory and game theory) one of the drivers of [dishonest, dysfunctional, delinquent, hypocritical, back-stabbing, cowardly] "thinking behaviours". This actually isn't anywhere as negative as it sounds, as it is only one facet of thinking and behaviour (change the traits to their opposites and the statement is equally true), and it helps us understand each other as human beings, and how well things actually work in spite of the challenges!

We need to pay far more attention to experimentalists, and far less to theorists. In some cases, we don't even need the latter, as the data speaks far better for itself than the theorists, especially before we really have a handle on the system's behaviour! Strangely, this seems to be the intuitive way that Wal Thornhill, a key long-term EU proponent, approaches his work -> there is no sense going into convulsions over detailed mathematics when we haven't even really described a system. Step by step, iteratively...

Earlier emails on related topics (craters, Electric scarring of Mars, kimberlites, rare earths)

[120903 Howell - I'll have to gather this at a later date...]

endsection

References and Further Reading

[120903 Howell – this is terribly incomplete!! Later ...]

Paul E. Anderson 120725 "Electric scarring of the Earth's surface" Proceedings of the Natural Philosophy Alliance, vol9, 19th annual conference of the NPA, 25-28Jul2012, Albuquerque, New Mexico, ISN 978-1-105-95509-9 <http://www.lulu.com/commerce/index.php?fBuyContent=13034945>

Donald E. Scott 2006 "The Electric Sky" Mikamar Publishing, Portland OR ISBN 0-9772851-1-1, 248pp

Wallace Thornhill, David Talbot 2002 "The Electric Universe" Mikamar Publishing, Portland OR 2007 edition, ISBN-13 978-0-9772851-3-6, ISBN-10 0-9772851-3-8 122pp

Wallace Thornhill, David Talbot 2002 "Thunderbolts of the Gods" Mikamar Publishing, Portland OR 2007 edition 122pp

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