



*"...Let us run with patience the race that is set before us." Hebrews 12:1*

by Eric S. Hadik

# **Earth In Transition: 3 + 3 V**

## **Earthquake Cycles in 2009--2011 (& Beyond)**

## **Volcano Cycles in 2012--2014**

### **E.I.T. - 3+3 V**

*INSIIDE Track Reprint*

#### **CONTENTS**

*Outlook 2010-2011.....1*

*Solar Cycles.....4*

*May Eruptions.....5*

*“The Lord said to Moses, “This month is to be for you the first month, the first month of your year.”*

*Tell the whole community of Israel that on the tenth day of this month, each man is to take a lamb*

*for his family, one for each household...*

*Eat it in haste; it is the Lord’s Passover. On that same night I will pass through Egypt and strike down every firstborn - both men and animals - and I will bring judgement on all the gods of Egypt.”*

*Exodus 12:1-3, 11-12 (NIV Translation)*

**May 2010** - *The following are excerpts from the April & May 2010 INSIIDE Tracks. They update analysis for a resurgence of volcanic eruptions in 2012 - 2014 (recently validated with the March 2010 eruption in Iceland - one of the primary areas of focus in this analysis) that should be preceded by more Major (8.0+) earthquakes in 2010--2012.*

*The most-discussed expectation was/is for a ‘trilogy’ of these 8.0+ earthquakes to occur in succession - first in Chile (in 2010), then in Japan (2011\*) and finally in North America, possibly the U.S. (2012\*). \*The overall time frame envelopes part of the surrounding years.*

*The first of these recently occurred in Chile, with uncanny precision - when an 8.8 struck on **February 27th**. Just a few weeks*

*later, volcanic activity began - in Iceland - in what is expected to be merely a precursor to 2012--2014 (watch **May 2012** as the first key time frame). As explained before, the 2012--2014 focus is on a global eruptive group of ‘**PIIGS**’ (**P**acific, **I**taly, **I**celand, **G**reece & **S**outh America) that are at the highest (cyclic) risk of major volcanic activity in the coming years. **I**ndonesia is also in this group, so it should probably be labeled ‘**PIIGS**’. Multiple, Major earthquakes should lead into - and then continue through - this period... IT*

### **Outlook 2010 - 2011...**

### **Signs in the Sun - Part III**

**03-30-10** - There are many discussions that are linked to the current focus on Solar Cycles and many cycles that have the Sun as their core. Some of these are very obvious and others are less so.

While last month's discussion focused on the approximate 11-Year (and 22-Year) *Sunspot Cycle*, I want to begin this segment by taking it down to a more basic - and earth-centered - level...

### **The Natural Year**

The Sun governs our seasons, which are measured by the solstices and equinoxes. By many accounts, the *Natural Year* begins with the vernal equinox on March 20/21st. This has been true in agrarian (agriculture/farming-based) societies for thousands of years. It has been true in civilizations that worshipped the Sun (and established their calendars accordingly). As such, it starts the clock on the 'opening range' of each Natural Year. Let me explain...

If one were to begin a calendar on the vernal equinox (start of Spring), the first month of that year would end on **April 19/20<sup>th</sup>**. It is when the northern half of the earth transitions from seasonal 'death' to 'life'. In the old days, it was also when 'kings went off to war' (see the Biblical account of when David chose *not* to go off to war, but to instead hang around the palace and let some idle time get the best of him).

Anyone that suffers from SAD could certainly attest to the psychological aspects of longer days and more sunlight when the shroud of depression lifts and the rays of hope come flooding back into their lives. But, let's apply this to the markets...

From a trading standpoint, the action in that first 30 *days* would represent a type of 'opening range' that would influence the trading of the rest of the Natural Year. This is similar to how I treat the first week - and month - of the calendar year, the first 3 trading days of each month and the first day of the week.

Once that opening range (first 30 days) is complete, you have resistance and support for the entire period - both when the market is trading *in that range* AND once it has *broken out of it*.

You also have an important gauge of trend for that year (if the market is trading above that range, it is in an uptrend on an intra-year basis, etc.).

Emphasis on the natural year was more significant in Gann's time since the commodity futures markets were almost all agricultural. **Mid-April** was the time when 'carry-over stocks' were

at their lowest and when planting conditions and expectations for the new 'year' - or growing season - were becoming apparent.

But, it is not just trading that is impacted...

This period - from March 20/21 to **April 19/20<sup>th</sup>** - marks a very important transition period, linked to various means of measuring time with physical (natural), celestial (astronomy), metaphysical (astrology) and supernatural (Jewish & Christian commemorations) implications.

It is a time to watch each year for signs of 'change'. In many ways, **April 19/20<sup>th</sup>** acts like a deadline for determining what to expect in the coming (*Natural*) year...

### **European Eruptions - Part II**

Last month, I explained why I thought one surprise - in the coming years - would be volcanic eruptions on the southern (Italy, Greece) & northern borders (Iceland) of Europe. This is what was stated then:

*"While the topic of volcanoes would normally make people think of various Pacific Islands (from Hawaii to Indonesia to Philippines to Japan... and all points in between) or South America, some of the most intriguing cycles come together in Europe - at the northern and southern borders.*

*...it is the group of volcanoes in Iceland that really intrigue me. These have multiple cycles - that I will discuss later - coming into play surrounding 2012."*

For the third time this year, it only took a few weeks for this analysis to be initially fulfilled. On March 20th/21st - as half the globe was 'coming to life' - there was a violent eruption from a 200-year dormant volcano in Iceland.

This is only what I would consider a precursor event and could be a harbinger of major activity in/ around 2012 BUT could also be an omen of something larger in the **April/May 2010** period - when multiple volcano cycles converge. (See March 2010 INSIIDE Track for more details.)

As I stated last month, the volcanoes in Iceland - and their converging cycles in 2012 (+/- 2

years) - are the ones that really intrigue me and are the ones at greatest (perceived) risk for violent eruptions in the coming years... and/or months.

One of the most notorious is Grimsvotn, which has seen some increasing activity in the past 40 years but which is best known for eruptions in 1783 - 1785. This created a catastrophic period - in Iceland and much of Europe - into 1789 (and beyond). Among the consequences were the hottest summer and the coldest winter in centuries and the death of over 25% of Iceland's population.

These eruptions occurred during the middle 'X,Z' period listed on the Sunspot chart on page 4 - when the Sun saw its largest pair of *Sunspot Cycles* for 150 years, in either direction.

The recent (past 40 years) resurgence of activity makes me wonder if something larger is on the horizon. The current *Sunspot Cycle* - the 20th since the 1780's - (and the 10th in the sequence of *22-Year Solar Polar Cycles*, as described last month) creates a larger degree, *220+-Year Cycle* that converges with many corroborating cycles...

Another well-known Icelandic volcano is Katla. Katla has had a web of eruption cycles that also seem to point to the period from **2010 - 2020** as a potentially active one...

Katla saw eruptions on a 300-year basis - in 1311, 1416 & 1721 - which could augur new activity in the current decade. This also broke down into a roughly 100-year cycle (95 - 102 years) - with eruptions in 1625, 1721, 1823 & 1918. The next phase of this cycle is in the coming decade.

However, the most intriguing is the cycle sequence with Hekla - another major volcano in Iceland. This volcano has been closely paralleling the *11-Year Sunspot Cycle*, creating a sequence of eruptions that first appeared at 44-year intervals, then at 33 - 35-year intervals, then at 22-year intervals and most recently at 10/11-year intervals.

In many respects, this is like the oft-quoted parallel to 'birth pains' that grow in frequency as they near a crescendo.

Hekla saw eruptions in 1510, 1554, 1597 & 1636-37 (and had previously seen eruptions in 1300-01, 1341 & 1389-90), all of which came at the 43-45 year average.

It experienced two more eruptions between 1637 and 1725, continuing the average (although the intervals were not on target) of 44 years. Another eruptive phase came about in 1766-68, 41 -43 years later.

A longer period lapsed before the next eruption - in 1845-46, at which point the intervals accelerated to an average of 33 years (3 xs the *11.2 year Sunspot Cycle*). This brought about eruptions in 1878, 1913 & 1947-48. This cycle projected subsequent eruptions in 1980-81 (exactly when another series of eruptions was seen) and **2013-14**.

However, following 1947-48, the next eruption came in 1970 - 22 years later (2 xs the *11-Year Sunspot Cycle*). This would portend subsequent eruptions in 1992 (one occurred in 1991) and **2014**. If you simply take the roughly 21.5-year interval - from 1948 - 1970 - 1991, it would project something in **2012-13**.

But, that is not where it stopped. Since 1970, Hekla's cycle of activity has broken down to 10-11 year intervals - with eruptions in 1970, 1980-81, 1991 & 2000. This 10-11 year cycle portends the next eruption in **2010-11**.

So, Hekla is seeing an increasing frequency of eruptions with *11-Year, 22-Year & 33-Year Cycles* (and *44 years* from the 1970 eruption) all pointing to **2010 - 2014**. The interesting thing is that the shortest-term cycle is pointing to now (**2010/2011**) for new activity.

As I often reiterate (emphatically), it is NOT a single cycle or just 2 or 3 that warrant closer attention. It is the SYNERGY of many diverse cycles - all converging in a narrow window of time - that spur me to sit up and take notice.

Cycles that are 500 & 700 years in duration, cycles that are 440-450 years in duration (40 xs the *11-Year Sunspot Cycle*), cycles that are 100 years in duration, cycles that are 44-45 years, 33-35 years, 22 years and 10-11 years... are all converging in the next few years and portending a major eruption in Iceland.

And this does not even factor in all the global *Earth Disturbance Cycles* that simultaneously come into play from **2010 - 2014**.

Nor does it include the corroborating fact that

### Solar 'Current of Fire' Speeds Up

3/12/10 - [http://science.nasa.gov/headlines/y2010/12mar\\_conveyorbelt.htm](http://science.nasa.gov/headlines/y2010/12mar_conveyorbelt.htm)

*What in the world is the sun up to now? In today's issue of Science, NASA solar physicist David Hathaway reports that the top of the sun's Great Conveyor Belt has been running at record-high speeds for the past five years. "I believe this could explain the unusually deep solar minimum we've been experiencing," says Hathaway... The Great Conveyor Belt is a massive circulating current of fire (hot plasma) within the sun. It has two branches, north and south, each taking about 40 years to complete one circuit. Researchers believe the turning of the belt controls the sunspot cycle...*

*...SOHO's dataset extends all the way back to 1996 and spans a complete solar cycle. Last year, Lisa Rightmire, a student of Hathaway from the University of Memphis, spent the entire summer measuring magnetic elements. When she plotted their speeds vs. time, she noticed how fast the conveyor belt has been going... The speed-up was surprising on two levels.*

*First, it coincided with the deepest solar minimum in nearly 100 years, contradicting models that say a fast-moving belt should boost sunspot production. The basic idea is that the belt sweeps up magnetic fields from the sun's surface and drags them down to the sun's inner dynamo. There the fields are amplified to form the underpinnings of new sunspots. A fast-moving belt should accelerate this process.*

*...What researchers really need is a good look deep inside the sun. NASA's Solar Dynamics Observatory, launched in February 2010, will provide that when its instruments come online later this year... And then...? "It could be the missing piece we need to forecast the whole solar cycle," says Hathaway.*

The Sun continues to reveal more and new information ('signs'??) and to exhibit what appear to be strange anomalies. My guess is that they are just repetitions of large cycles of which we are currently ignorant. Of course that possibility - that we humans might not have all the answers - will probably be waaaaaayyy down the list of possibilities to consider. Instead, the mindset is that we must have plenty of data since it 'extends all the way back to 1996' (is that now considered ancient times??). So, prepare yourself for an onslaught of ever-changing theories in the years to come. *IT*

### Pertinent Information Key

*The Sun has a peak-trough-peak cycle of solar activity (sunspots, solar storms) that lasts about 11 years. The current cycle - known as Solar Cycle 24 - bottomed in 2009 and has just begun its up phase. This means the number of annual sunspots should increase into 2012 or 2013 and could easily reach a peak of 100 - 150 as opposed to very few in 2008/2009.*

*These solar storms eject massive amounts of plasma and accompanying magnetic fields from the Sun, sometimes targeted toward Earth (depending on the position of the Sun when they occur), which can damage satellites and other electronics. Canada suffered a severe power outage - in 1989 - as a result of one of these. Communication satellites - impacting cell phones as well as ATM payment hubs at gas stations - were impacted by storms in 1997 & 1998. And, at many times in the past, the earth has experienced a spike in earthquake and volcanic activity during these Sunspot Cycles.*

*However, the surge in dependency on electronics (from computers to satellites to power grids) has exponentially increased our vulnerability, as a society, to these barrage of solar particles. If you think this concern is far-fetched, just ask yourself what would happen if for one week - just 7 days - electronics (access to money and/or credit, ordering & shipping processes for stores that provide food & supplies, etc.) were disrupted in one major U.S. city. Ice storms have caused worse disruptions in many areas. Why couldn't a solar storm? This surge happens every 11 (or so) years and it is beginning to occur again. Are you ready? *IT**

### **April Actions Bring May Reactions??**

**May 20-29, 526 - Antioch, Turkey:** 250,000-300,000+ killed; 2nd deadliest earthquake in history; 6th deadliest natural disaster in history.

**May 7, 1902 St. Vincent, West Indies:** Soufrière volcano erupted, devastating 1/3 of island; 1,680 dead.

**May 8, 1902, Martinique, West Indies:** Mt. Pelée erupted and wiped out city of St. Pierre; 40,000 dead.

**May 19, 1919 - Mt. Kelut Indonesia** eruption

**May 22, 1927 Xining, China:** magnitude 7.9 earthquake claimed approximately 200,000 victims.

**May 30, 1935 Pakistan:** earthquake at Quetta killed 30,000–60,000

**May 29, 1937 - Rabaul Caldera Papua New Guinea**

**May 22, 1960 Chile:** strongest earthquake ever recorded (9.5 magnitude) struck near the coast, causing a tsunami that traveled as far as Hawaii, Japan, and New Zealand, killing 4,000–5,000.

**May 31, 1970 Peru:** 7.9 earthquake; more than 66,000 dead.

**May 18, 1980 - Mt. St. Helens** eruption

**May 28, 1982 - El Chicon** eruption

**May 12, 1997 NE Iran:** 7.3 earthquake; 1,500+ dead and at least 4,460 injured.

**May 30, 1998 N. Afghanistan:** magnitude 6.9 earthquake and aftershocks killed at least 4,000. A quake on Feb. 4 in same area killed about 2,300.

**May 21, 2003 N. Algeria:** magnitude 6.8 earthquake killed 2,266 people. The epicenter was 40 mi east of Algiers, the capital city.

**May 26/27, 2006 Java, Indonesia:** 6.3 magnitude earthquake killed 5,749 people and destroyed 127,000 homes. This area had also been under an intense volcano watch due to the ongoing eruption of the volcano Merapi.

**May 12, 2008 China:** 7.9 earthquake - 67,000+ killed; hundreds of thousands injured.

**May 2, 2008 - Chaiten** Volcano in **Chile** began erupting

**May 17--19, 2009 -** earthquake swarm and fear of eruption in... **Saudi Arabia** (Harrat Lunayyir)

**May 27<sup>th</sup>, 2010 =** 90 degrees from Chilean EQ - watch for possible volcanic activity in **May 2010**.

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the *Sunspot Cycle* has bottomed and is in the very early stages of a new up cycle.

Nor does it incorporate that very eerie coincidence that societies and civilizations have frequently seen internal chaos (like Iceland almost going bankrupt in the past two years) just prior to major earth events.

When you add all of those factors into the mix, it certainly provides some synergetic cause for caution.

On a larger, global scale, I should reiterate

that I will be watching the months of April & May - beginning in 2010 & 2011 (but even more so in 2012 - 2014) for pyroclastic surprises all around the world. If some observers are accurate, however, this might not be the only subterranean risk...

#### 4/29/10 - **May Eruptions**

Perhaps there is a connection between the fiery events & explosive rhetoric of April and the reverberations and eruptions often seen in the weeks that follow...

The month of May does not have the frequency of seismic activity that has been observed at other times of the year. However, when dealing with significant volcanic eruptions - and massive/deadly earthquakes - it has seen its share of very intense activity.

Major volcanic eruptions have been seen during the month of May in 1902 (2), 1919, 1937, 1980, 1982 & 2008. This list includes many of the biggest eruptions of the past 110 years.

The largest earthquake of the past 200+ years also took place in the month of **May** - in 1960 (Chile) - as did the 2nd deadliest earthquake in history. In the past 90 years, 4 of the 10 deadliest earthquakes have occurred in **May** (killing a total of 370,000 - 400,000 individuals).

Even more intriguing is that many of the most deadly or powerful earthquakes in the Near & Middle East (Pakistan, Iran, Afghanistan) have taken place in the month of May. This might explain the following section.

Here again, I am more focused on this period during the years of 2012 - 2014 BUT also expect to see some 'precursor' activity in 2010 & 2011. And,

in recent history, one 'eruption' has often stretched throughout April AND **May... IT [End of excerpts from April & May 2010 issues of INSIIDE Track.]**

See **17-Year Cycle & Earth in Transition Reports** & other INSIIDE Track publications for add'l analysis on this developing period when MAJOR earthquakes and then volcanoes are expected to destabilize the Earth.

Japan is next on the list & should reach a crescendo of activity between **Dec. 2010--Jan. 2012** while North American/U.S. appear most vulnerable - cyclically speaking - in **April 2011 - Oct. 2012**.

As the coming months evolve, these time frames should be narrowed down to more specific, synergistic periods of months... or even weeks. Based on the events of recent years, the period of **late-February through late-March** should be watched carefully in **2011 & 2012**.

**2012** could be the real key, when earthquake cycles reach an initial crescendo, volcano cycles begin to accelerate higher and market/geopolitical cycles enter a precarious 3-5 year period. *IT*

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