



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

by Eric S. Hadik

Earth In Transition: 3 + 3 IV

Earthquake Cycles in 2009--2011 (& Beyond)

Volcano Cycles in 2012--2014

E.I.T. - 3+3 IV

INSIIDE Track Reprint

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“There will be great earthquakes, famines and pestilences in various places, and fearful events and great signs from heaven...”

There will be signs in the sun, moon and stars.

On the earth, nations will be in anguish and perplexity at the roaring and tossing of the sea. Men will faint from terror, apprehensive of what is coming...”

Luke 21:11, 25-26 (NIV Translation)

March 2010 - *The following is an excerpt from the March 2010 INSIIDE Track that details analysis on Sunspot Cycles and the related swarms of volcanic eruptions that have historically accompanied this increased solar activity. A new swarm of significant - and potentially catastrophic - volcanic eruptions is expected in 2012 - 2014.*

Leading into this, major earthquakes have been forecast as a precursor... with 2012 acting as the transition point (when major earthquakes are still expected, but should be overshadowed by a series of devastating volcanic eruptions).

This was projected to be highlighted by a MAJOR earthquake in Chile in 2010, in Japan in 2011 (Dec. 2010--Jan. 2012) and North America in 2011/2012 (along with other correspond-

ing global quakes). The first ‘danger period’ for Chile was identified as February 2010 - perpetuating a cycle of significant earth disturbances during the months of February, May, August & November (a 90-degree cycle impacting Chile and S. America).

So, what happened on February 27th? An 8.8 magnitude earthquake struck Chile, causing massive damage and precisely fulfilling this analysis. This is expected to be only the beginning... and is likely to be a precursor to more MAJOR (8.0+) quakes in the coming years. At the same time, however, volcanic activity is expected to begin... but not really accelerate until 2012--2014.

While much of current, global economic attention has been focused on the so-called ‘PIIGS’ (Portugal, Ireland, Italy, Greece & Spain), the following discussion focuses on a global eruptive group of ‘PIIGS’ (Pacific, Italy, Iceland, Greece & South America) that are at the highest (cyclic) risk of major volcanic activity in the coming years.

Similar to the Earthquake Swarm Cycles that have been detailed the past several years, the Volcanic Swarm Cycle is also linked to the Sun's 11-Year Sunspot Cycle that just bottomed in 2009 and is turning up now.

However, it is the 22-Year Sunspot Cycle (every other Sunspot Cycle when the Sun's polarity returns to where it was two cycles previous) that has been the most consistent and which augers major volcanic eruptions in Europe (northern & southern borders), South America (Chile, in particular) & the Pacific. However, the United States also plays into this analysis in the coming years (2014--2017).

Please keep in mind: These cycles are discussed as another example of the application of cycle analysis. They are not addressed to sensationalize possible events or to minimize the often-tragic impact of those events... but rather in an attempt to encourage readers to recognize and learn from the repetition of these events... IT

Outlook 2010 - 2011... ***Signs in the Sun - Part II***

02-25-10 - Imagine you live in a wooded area with large oak trees as far as the eye can see. For the sake of this discussion, you live in a one-story, ranch-style home with some of these majestic oak trees arching over your house and providing much-desired shade during the hot summers. Most of the time, you consider these oaks a desired companion in the world in which you have chosen to live.

They are not, however, without their faults... or at least one recurring nuisance. With predictable regularity, they shed their acorns and - combined with that pesky force of gravity - these nuts bombard the roof of your house on an annual basis.

You are usually able to anticipate when this yearly pummeling will occur but there are times when a random barrage catches you by surprise. It might be in the middle of a spring or summer storm, when the winds are enough to unleash an isolated deluge of acorns.

It might be during a year in which precipitation

levels significantly diverged from other years. Or, there might be no apparent rationale for an occasional assault from these natural noisemakers.

During the heavier bombardments, you might stay indoors or limit your yard activities. But, all in all, it is a small price to pay for co-habiting with these otherwise desirable 'creatures'.

You know that the acorns do a little damage to your roof each year, but it is negligible. However, as time goes on - and the shade from these trees intensifies - you decide to add a couple skylights to enlighten & simplify your lifestyle. You have them constructed carefully so that the annual assault is unlikely to do much damage to them.

The demands of your world continue to evolve and you have been integrating solar panels in your yard and need to add some to your house, in order to keep up with the growing energy demands of your lifestyle. So, again, you take precautions but you know that there are times of the year when you might have to cover these panels in order to protect them from the oaks' offensive against your roof.

There is a 'Catch-22'. The more you use your solar energy the more you need it, as you upgrade your appliances and gadgets to accommodate this wonderful - and cost-saving - method of producing energy. And, the older these oaks grow - and the more of a shadow they cast - the more panels you need. *It is a vicious circle.*

Complicating matters is the fact that your area has been in a multi-year drought when the oaks did not produce many acorns - or leaves - and when you got used to a greatly-reduced threat of acorn attacks while also adapting to a near limitless supply of sunlight, streaming through the barren trees.

Your lifestyle now relies, almost entirely, on your solar panels to supply your day-to-day needs... and you have expanded your 'needs' to the point where you must have this constant supply of sun-based energy to maintain life as you know it. One interruption - or glitch - could trigger a destructive domino effect.

The Other 'CME'

Now, pretend that you live on planet Earth

with the arching rays of the majestic Sun surrounding your habitation. And, pretend that on a regular basis (every 11 years or so), that Sun propels barrages of plasma raining down on your home.

In most cases, the Earth's poles act like your roof and absorb the deluge of magnetic fields - resulting from these coronal mass ejections or CMEs (not to be confused with the Chicago Mercantile Exchange) - diffusing them in beautiful auroras below the polar 'roofline' of your home.

However, during the course of the last 2 or 3 'years' (which, when referring to solar 'years' would mean the last 2-3 periods of 11 earth years), you have erected a massive web of solar panels on your roof... *I mean satellites in your atmosphere.*

Since the last onslaught (in the late-1990's), you have become exponentially more dependent on these satellites - to the point your entire lifestyle relies on them.

Communications, power grids, military security, work, air travel, shipping, etc. Every facet of your life is intimately connected with - and dependent on - those fragile satellites 'mounted' on your 'roof'.

...If someone knocked on your door and reminded you that the annual acorn assault was close at hand, would you call him *Chicken Little* and yell and scream that he was just an apocalyptic alarmist?

More importantly, would he be?

Or would he just be pointing out an EXTREMELY normal cycle that you can almost set your watch by.

Knock-Knock!!!

No, this is not a 'knock-knock' joke. Instead, it is the sound of those first acorns tapping on our collective 'roof'. And, if history (of 11 years ago, 22 years ago, 33 years ago, 44 years ago, etc.) is any indication, there are many more acorns to come.

The *11-Year Sunspot Cycle* has just begun to turn up and the coming years could be challenging.

CMEs (Coronal Mass Ejections)

Coronal mass ejections (CMEs) are eruptions into interplanetary space of as much as a few billion tons of plasma and embedded magnetic fields from the Sun's corona...CMEs originate in regions where the magnetic field is closed and result from the catastrophic disruption of large-scale coronal magnetic structures...

CMEs can occur at any time during the solar cycle, but their occurrence rate increases with increasing solar activity and peaks around solar maximum...Fast CMEs - those traveling faster than the ambient solar wind -- are responsible for triggering large, nonrecurrent geomagnetic storms when they encounter the Earth's magnetosphere.

Such storms can result from the passage either of the CME itself or of the shock created by the fast CME's interaction with the slower-moving solar wind. The majority of large and major geomagnetic storms are generated by the encounter with both the interplanetary shock and the CME that drives it. The "geoeffectiveness" of CMEs --i. e., their ability to disturb the Earth's magnetosphere-- is a function of their speed, the strength of their magnetic field, and the presence of a strong southward magnetic field component.

<http://pluto.space.swri.edu/image/glossary/cme.html>

Geomagnetic Storms

Geomagnetic storms are major disturbances of the magnetosphere that occur when the interplanetary magnetic field turns southward and remains southward for an prolonged period of time. During a geomagnetic storm's main phase, which can last as long as two to two and a half days in the case of a severe storm, charged particles in the near-Earth plasma sheet are energized and injected deeper into the inner magnetosphere, producing the storm-time ring current. This phase is characterized by the occurrence of multiple intense substorms with the attendant auroral and geomagnetic effects.

...In the case of a great storm, such as the one of 6 February 1986, the ring current can take over a month to fully return to its quiet state...

pluto.space.swri.edu/image/glossary/geomagnetic_storm.html

Editor's Note: The Feb. 1986 'great storm' came right at the beginning of an up phase... not at the culmination. This is similar to where we are now - after a pair of Sunspot Cycles have elapsed. Will 2010 or 2011 see similar storms?

With increasing number of satellites in orbit, the risk is also increasing. And, with increasing competition among who owns and operates those satellites comes an increase in the potential for some chaos... should a significant solar storm bombard our 'home'. Also in orbit is the *International Space Station* - the modern-day *Tower of Babel*.

Binary Babel

Binary has become the uniting language of the world. Similar to 5,000 years ago, the globe has grown closer together - via the use of computers, internet, etc. - and has used this unification to extend humanity's reach into the heavens. The plans and goals are limitless. *But, the more things change the more they stay the same.*

If you are skeptical of this comparison, just look to Belgium. The headquarters of the European Union is modeled precisely after a well-known artist's conception of the original *Tower of Babel*. Coincidence? *Is this really the model - or icon - they desire to represent their aspirations? Could life ultimately imitate art?*

Keep in mind that it was not a drought or flood - or a shortage of bricks - that halted the construction of the original *Tower of Babel*. It was not a strike by the mortar-mixing union. It was not a massive earthquake or a devastating plague. It was simply a little linguistic lunacy.

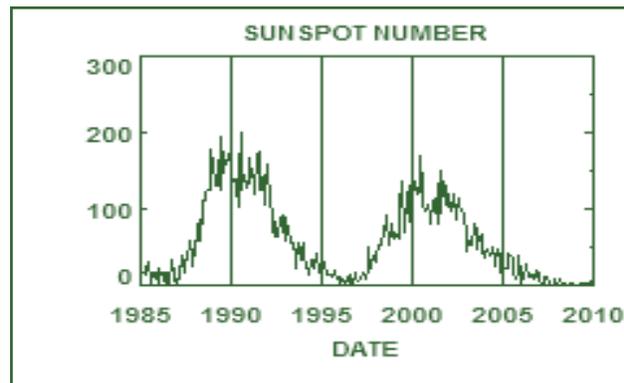
Binary (code) is the language that unites the Earth. Computers and satellites are the glue that bond - or bind - the global community. They are the mode of communication from one continent to the next. And, they now run all of the vital functions of the world.

But, is there a vulnerability? And, if so, when is the most likely time for it to be attacked?

Predictive Pairs

The *11-Year Sunspot Cycle* has many similarities to the Earth's *17-Year Cycle*. One of those has to do with the fact that every other *11-Year Cycle* - a *22-Year Sunspot Cycle* - creates a higher-degree Cycle with more interrelated similarities.

This is similar to what I described - in 2007 -



with regard to the *17-Year Cycle*. Every other recurrence - a *34-Year Cycle* - had its own similarities that provided even closer parallels to all the other members of this series. (And, every 3rd recurrence - a *51-Year Cycle* - had its own set of unique characteristics.)

As explained 3 years ago, 2007 - 2008 was forecast to be remarkably similar to 1973 - 1974 AND 1939 - 1942 AND 1906 - 1907 AND 1869 - 1873 AND 1837 - 1842 all of which experienced financial meltdowns that often resulted in depressions and/or stock market losses of 35 - 50%.

Now that we have had time to observe this *34-Year Cycle* at work, should it be given credibility?

If so, let's examine another example of this principle of cycle pairs - the 2xs multiple of the *11-Year Sunspot Cycle*.

The Solar-Polar Combo

For those that want to do more than just observe, there is actually a very good reason for this *22-Year Sunspot Cycle*.

The unique thing about the Sun is that it shifts polarity during each *Sunspot Cycle*. In effect, what was north becomes south and what was south becomes north (this is evident in the magnetic polarity of the actual sunspots & solar storms).

So, it takes two of these *11-Year Cycles* for the sun to return to a similar polar position.

Plasma Ejections & Magma Eruptions

So, what can we expect in the coming years?

While the following might not be an accepted scientific fact, I cannot help but notice the close

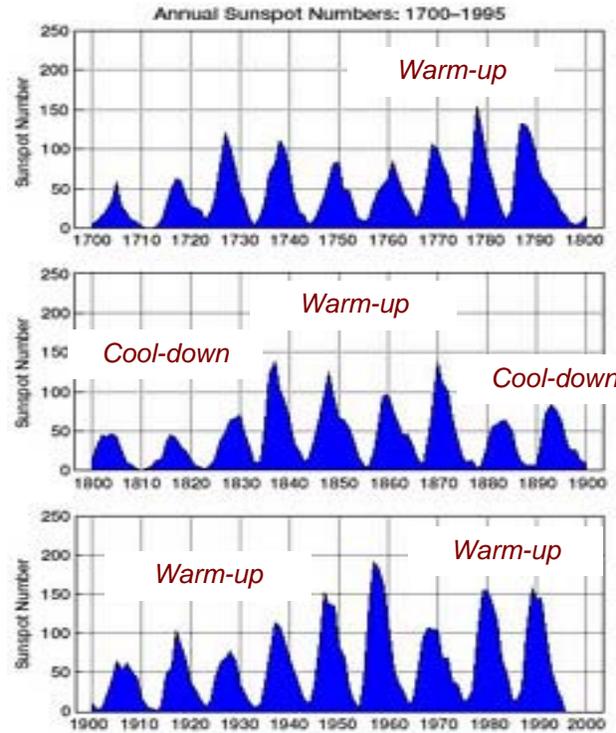
correlation between the peaks in the *Sunspot Cycle* - when Earth is sometimes pummeled by a massive surge of electromagnetivity - and the concentration of multiple, violent volcanic eruptions.

The important distinction is not when a *single* volcano erupted, but rather when a *swarm* of them did. This is similar to the **17-Year Earth Disturbance Swarm Cycle** that I described in 2007 & 2008 (which is recurring right now).

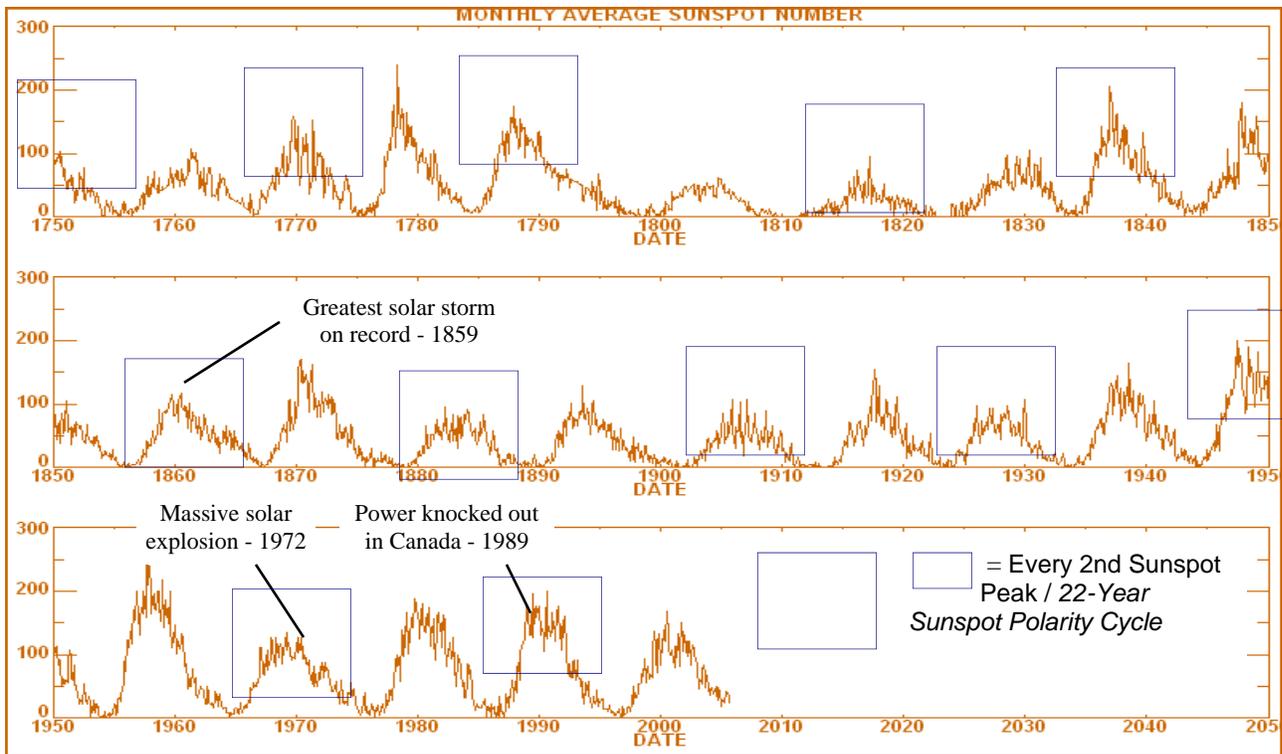
It is the principle of synergy when multiple, coinciding events increase the significance of a particular time frame.

In the following discussion, I am focusing on every *other* peak in the *Sunspot Cycle* (those surrounded by boxes on the diagram on page 5). So, as just discussed, it forms an approximate **'22-Year Cycle of Volcano Swarms'**. This is why I also include a projection, based on multiples of '22'...

1792 - Mt. Unzen, Japan - This is the same volcano that erupted in 1991 - along with Mt. Pinatubo & Mt. Hudson - but with more catastrophic consequences. In 1792, the eruption



windows.ucar.edu/tour/link=/sun/activity/solar_cycle.html



of this volcano killed 15,000 people. (+220 = **2012**)

1814 - 1815 - Mt. Tambora (Indonesia) erupted - killing 92,000 and creating, in the ensuing year of 1816, the 'Year Without a Summer';

The Mayon Volcano (Philippines) erupted with the most destructive eruption of its history. This volcano later erupted in 1968... and just came to life again, in Dec. 2009. (+ 198 - or $9 \times 22 =$ **2012 - 2013**)

1882 - 1883 - Krakatoa (Indonesia) - the most powerful eruption since Tambora - erupted, killing 36,000 people. Next to Tambora, this was the most deadly volcano of the past 300 - 500 years. (+ 132 - or $6 \times 22 =$ **2014 - 2015**)

1902 [- 1906] - 1902 saw Mt. Pelee (Martinique) erupt & kill 29,000; Santa Maria (Guatemala) erupt and kill 6,000 and Soufriere (Caribbean) erupt and kill 1,680. 4 years later - at the peak of the Sunspot Cycle - devastating earthquakes hit San Francisco & Messina, Italy. (+ 110 - or $5 \times 22 =$ **2012 - 2016**)

1946 - 1948 - Major eruption of Popocatepetl (Mexico; erupted again in 1994 and now is active), Hekla in Iceland (1947 eruption started March 29,

1947 and ended April 1948; 2nd greatest global lava eruption of 1900 - 1970; last erupted in 2000) and the creation of & eruption of Paricutin (Mexico).

Cerro Negro (Nicaragua) experienced its largest eruption on July 9, 1947 with a 2nd eruption in 1948. Niuafu'ou (Tonga) erupted violently, forcing a 12-year evacuation of that island.

One additional, related point of interest...

During this particular Sunspot 'up' phase - in 1944 - Mt. Vesuvius experienced its last eruption. As explained a couple years ago, this volcano had a regular activity periodicity of 10-20 years for the past couple centuries.

However, it has been basically dormant since 1944, an unusually long period of time for this particular volcano to be building up pressure when its 1900-year history - since the 79 AD eruption - is taken into consideration. (+ 66 - or $3 \times 22 =$ **2010 - 2014**)

For what its worth, a period of $4 \times 22 \times 22$ years from 79 AD is **2015**.

1967 - 1970 - Eruption of Arenal (Costa Rica), Mayon (Philippines), Tambora (Indonesia; see

Sunspot Updates (from past 10 months) - from <http://spaceweather.com>

4/02/09 - SPOTLESS SUNS: ... the sun has plunged into the deepest solar minimum in nearly a century. Sunspots have all but vanished and consequently the sun has become very quiet. In 2008, the sun had no spots 73% of the time, a 95-year low. In 2009, sunspots are even more scarce, with the "spotless rate" jumping to 87%... This is a big event, but it is not unprecedented. Similarly deep solar minima were common in the late-19th and early-20th centuries, and each time the sun recovered with a fairly robust solar maximum.

10/25/09 - BIG SUNSPOT: The sun is showing signs of life. Sunspot 1029 emerged over the weekend, and it is crackling with B- and C-class solar flares. The active region's magnetic polarity identifies it as a member of new Solar Cycle 24. If its growth continues apace, sunspot 1029 could soon become the biggest sunspot of 2009.

12/15/09 - BIG NEW SUNSPOT: Just yesterday, sunspot 1035 was nearly invisible. Today, it is as wide as seven planet Earths. The fast-growing active region burst into view on Dec. 14th with a magnetic polarity that clearly identifies it as a member of new Solar Cycle 24. If the expansion continues apace, it could soon become the largest sunspot of the year.

2/08/10 - BIG SUNSPOT: The sudden emergence of big sunspot 1045 over the weekend has caused a sharp uptick in solar activity. The active region has produced three M-class and almost a dozen C-class solar flares since it appeared on Saturday. The strongest blast, an M6-class eruption on Feb. 7th, may have hurled a coronal mass ejection toward Earth...

If the very early stages of this new Sunspot Cycle have already produced a few major eruptions, imagine how it will be when the number of these solar storms increases. 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 (monthly average) 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.

There has been a significant - and normal - lull in these storms in recent years... just enough to lull Earth's inhabitants into forgetting that they are a recurring, natural phenomenon. During this lull, we have increased our dependency on all things electronic, computerized and/or internet-based. It is no longer our Achille's Heel - in Western Society - it is now our Achille's Torso. All our vital organs - as a society - are vulnerable to the barrage of solar particles that are propelled in rapid-fire succession during the Sunspot Cycle phase that we are now entering. It happens every 11 (or so) years and it is beginning to occur again. Are you ready? IT

1815), Hekla (Iceland) & an encore presentation from Cerro Negro (Nicaragua), which again had multiple eruptions - in 1968 + 1969. (+ 44 - or 2 x 22 = **2011 - 2014**)

1991-1992 - Mt. Pinatubo (Philippines) erupted & lowered global temperatures the following year, Mt. Unzen (Japan; see 1792), Mt. Hudson (Chile) & Hekla (Iceland) erupted.

Cerro Negro (Nicaragua) was back for a 2nd encore with its 2nd largest eruption to date. (+ 22 years = **2013**)

2010-2014 - ??? - The greatest concentration of these cycles seems to be pointing to 2012 - 2014, although diverse cycles show the likelihood for major eruptions in each of the next 3-5 years.

European Eruptions?

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.

A couple years ago, I detailed multiple cycles related to Mt. Etna & Mt. Vesuvius - both on the Mediterranean - that converge around 2014.

There are also large-scale cycles (which, admittedly, have the greatest margin of error) that show the area around Santorini, Greece is overdue.

One of the greatest volcano eruptions of history is the Minoan eruption in Santorini, Greece that is dated to be about **3,600** years ago. *Hmmm.*

That number is interesting, since a period of 360 years - a large scale, geometric cycle of 360 degrees - has been discussed repeatedly over the last two decades. An even larger-scale geometric cycle would be 10 of these 360-year periods... or a period of 3,600 years.

Most scientific dating pinpoints that eruption to 1600 - 1628 BC (based on radio-carbon dating & tree-ring dating). If correct, a 3,600-year cycle matures in **2001 - 2029 AD** (since there is no '0' year). While that is a relatively broad time frame (with **2015** representing the midpoint), there is another eruption that might hone this focus...

1650 is the last modern-day eruption of a volcano near Santorini. A single 360-degree cycle - from 1650 - matures in **2010**.

However, 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**.

There is one final aspect of volcano cycles that I want to touch on now. It is the time of year when a majority of the major eruptions have taken place.

From Tambora in 1815 to Mt. St. Helens in 1980, many of these eruptions have taken place in

the April/May time frame. This is particularly interesting when you factor in S. American earthquake/volcano cycles during the month of May and N. American earthquake cycles during the month of April (see Feb. 2010 issue for details).

'Signs - and Synergy - in the Sun'

So, with the recurrence of diverse, multi-century earthquake, volcano & solar cycles, I will certainly be watching the months of April & May, particularly in **2012 - 2014**.

However, even in **2010 & 2011**, this period warrants close monitoring. So, too, does solar activity in the coming months. *IT* **[End of excerpt from 2/25/10 March 2010 issue 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.

As described in January, **February 2010** was the anniversary of a series of 6 earthquakes in Chile & S. American that struck in February 2009. It was also the latest phase of the **February/May/August/November** cycle of major earth disturbances in Chile. And, **2010** is the crescendo of the **17-Year**

Swarm Cycle of Earth Disturbances in Chile (see March 2009 INSIIDE Track).

Last week's massive earthquake fulfilled all of these cycles... and increased the focus on the coming years for similar - or worse - quakes in Japan & North America.

Japan is next on the list & should reach a crescendo of activity between **Dec. 2010--Jan. 2012** while the U.S. appears most vulnerable - cyclically speaking - in **April 2011 - October 2012**. As the coming year unfolds, these time frames should be narrowed down to more specific, synergistic periods of months... or even weeks.

This also ushers in the period - as detailed in this publication - when volcanoes should begin to erupt, with escalating intensity and ramifications. European volcanoes are expected to lead the way, with Italy, Greece & Iceland possessing the highest potential for now through **2014**.

This earth instability is expected to pave the way for geopolitical instability with major, multi-year, multi-decade, multi-century & multi-millennial cycles converging in the Middle East - beginning in **2010/2011...** and then escalating into **2017/2018**. *IT*

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