

NCGR Research Journal



Volume 4, Spring 2014

Jagdish Maheshri, Director of Research

Patricia Buckley, Publications Director



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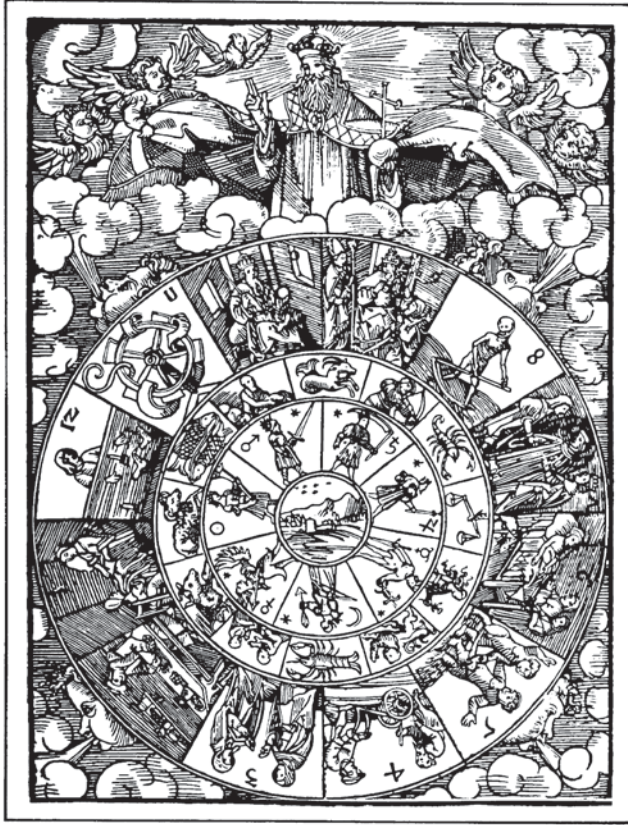
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The NCGR Research Journal



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Research Director, Jagdish Maheshri

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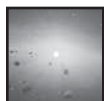
The Astronomer: Oil on canvas,
Johannes Vermeer circa 1668,
Current location, Louvre Museum,
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Editorial

I'm very happy to bring the fourth issue of the NCGR Research Journal. It's a great pleasure and honor to serve as a Research Director and Editor. The theme of this issue is mainly the research in astrology, and the articles in this issue cover a wide range of research from—astrology as predestined to astrology as a science with free will.

The Journal begins with a fascinating article by **Alex Miller** on Personal Named Asteroids (PNA), and makes one wonder the implied impacts of PNAs for issues of fate and free will. Do we in fact “control” anything? Or is it all subject to the finely tuned tick-tock of a clockwork universe, where destiny is mapped in the heavens and we merely play our predetermined part?

The second article by **Kyosti Tarvainen** investigates the validity of Jonas's Theory with a large amount of data where he looks at a part of conceptions related to the mother's Moon phase and also the sex determination of child. It's a good piece of scientific research.

The next article by **Armand Diaz** explores the consciousness development of the western professional astrologers by surveying twenty seven professional astrologers and measuring their identification with seven developmental tiers. And his preliminary findings indicate that professional astrologers are not identified with levels of development where superstition, self-centeredness, and limited ability to take others' perspective dominate.

Bruce Scofield's article on the Mars-Aries ingress is one of the wonderful examples of scientific research on which this journal thrives. He examines the ingress of Mars in Aries with the corresponding temperature variations using three separate data sets for two locations.

The next article is about the language through which astrologers communicate. I always wondered about the

keyword in astrology for planets, signs and house, and how we communicate through them. **Michael Munkasey** must have read my mind. His paper offers an approach to classifying and assigning astrological meanings to the everyday words of our language with a few set of rules for assigning and classifying the daily words of language into their astrological correlations.

The following article, “A theory of Continuous Planetary Interaction” by **Tony Waterfall** is fascinating and intriguing. According him each planet of our solar system has a surrounding interactive sphere with magnetic poles and auroral ovals. And it is through these auroral ovals the energy travels among the planets, and thus, influencing us through the electromagnetic field. Although it’s yet to be proven, it certainly offers explanations for possible planetary interactions through which all habitants of earth are influenced.

I have chosen the last article as a tribute to one of the greatest astrologers and true researcher of astrology—**Bonnie Armstrong**. This tribute is articulated by **Leigh Westin** who had opportunity to interview her in the early seventies. Bonnie Armstrong’s research article, “The point of loneliness” focuses on the latest degree planet in a natal chart. It is this degree that represents a point of aloneness, describing energy that one had to act on one’s own to fulfill his or her destiny.

Finally, I would like to sincerely acknowledge John Marchesella, Gene Shaw, Patricia Buckley and Joseph Addeo for their contributions in helping with the editing of this issue--and also to our publishing director, Patricia Buckley, and to our art director Loretta Lopez, who have been a tremendous force behind this issue. Patricia and Loretta’s timely help and huge efforts in laying out the entire journal with minute, but important details are deeply appreciated.

Jagdish Maheshri

Jagdish Maheshri - NCGR Research Director



Personal-Named Asteroids and the Uranus/Pluto Square

Alex Miller



ABSTRACT

This article investigates the terrestrial manifestations wrought when celestial objects, predominantly Main Belt asteroids, with proper names interacted with the Uranus/Pluto square in the period 2012-2013, detailing the effects and events evoked among individuals and geographic locales with the same or similar names. Comparison is made between the news events themselves and the astrological patterns in effect at the time, indicating a perhaps causal relationship between the two.

Introduction

So, first off, what are PNAs? PNAs, or Personal-Named Asteroids, as the name implies, are small chunks of rocky debris primarily found in the Main Belt of asteroids between the orbits of Mars and Jupiter, which have been given common names such as Paul, Lorraine, McConnell and Smith. There are some 1.9 million minor bodies circling our sun, and although only about 17,000 have been named, astronomers ran out of

deities a long time ago! So unlike major planetary energies, which have mythic resonances built into their nomenclature which provide clues to their meaning, many of these points are named for common first and surnames, geographic locales, and such prosaic items as Petunia, Beer, Storm and Fireman, and have no deeper implications which are obvious at first glance.

But they do resonate very strongly, in birth charts and particularly current events, for persons and places with connections to those names. The personal names chosen may be exact matches, similar spellings or phonetic mates (as Gifford for Giffords or Juels for Jules), foreign language equivalents (as Edoardo for Edward or Luisa for Louise), nicknames or opposite-gender variations (as Patricia for Patrick or Jessie for Jesse and Jessica), but they all show prominently in charts cast for events affecting the people and places represented.

A particularly rich area of research into this emerging and fascinating field has been the ongoing Uranus/Pluto square, the defining aspect of our times. Chock full of potential for dramatic, outrageous and over-the-top events, when this square is activated by PNAs that stray into their “hot zone,” truly amazing stories appear. We’ll look at just a sampling of the examples the ever-fertile cosmos has bequeathed us the past two years, and I think you’ll find the case for inclusion of these tiny dynamos in your astrologic repertoire quite compelling.

Methodology

But first a quick note about methodology. It’s difficult, when beginning a study of this type, to decide exactly how wide orbs should be. Generally speaking, the closer the better, when doing research, but some of these points are so clearly active in the terrestrial events they cosmically portray that wider orbs do seem to be effective. As a rule of thumb, I don’t go broader than 5 degrees, and most of the stories presented here will involve considerably closer aspects, but on some occasions an effect of the contact is transparent for up to 10 degrees. My source for the asteroid names listed in this article is the Minor Planet Center (www.minorplanetcenter.net), and all calculations were computed on the asteroid ephemeris generator at www.serennu.com.

Examples

1. Let's begin with a story that most of us will remember, the tragic shooting in an Aurora, Colorado movie theater, when James Holmes, dressed as the Joker, shot up a midnight showing of "The Dark Knight Rises" on July 20, 2012, just as the Uranus/Pluto square began spitting on its hands and getting down to business. Their first exact square had come less than a month before, and the implications for increased shootings, terrorist acts and murder with this combination is obvious.

But nothing in that very basic astrology prepares us for seeing the details of the incident sketched out so clearly in the heavens. Uranus and Pluto were squaring off from 8 and 7 degrees of Aries and Capricorn respectively, and into that hot zone strayed Mars, planet of violent attacks, at 9 Libra for the shooting. In exact union with Mars was asteroid Holmes (#5477), precisely identifying the shooter. [Asteroid James also makes a starring appearance, in a tight Grand Cross with Neptune (victims, movie theaters) and the Lunar Nodes (destiny), but as the focus of this article is Uranus/Pluto interactions, we'll give that a passing nod and move on]. Moreover, in James Holmes' nativity (born December 13, 1987), asteroid Aurora (#94, for the town where the shooting occurred) also appears at 9 Libra, bringing together the shooter, the venue, and the potential for devastating violence and disruption in one all-too-neat celestial package.

James Holmes killed 12 and wounded 58 that day, and, oddly enough (if you're unfamiliar with PNAs), three of the dozen dead shared the name Alex¹ - Alex Sullivan, Alex Teves and Alexander "AJ" Boik. This was a totally random, untargeted shooting in a darkened theater, and the "coincidence" does indeed seem odd at first blush, until we look at the placement of asteroid Alex (#3367) that day. At 6 Capricorn, asteroid Alex had also walked into the square's energy, just a degree shy of Pluto, modern ruler of death.

2. Adam Lanza's massacre of 20 school children at Sandy Hook Elementary on December 14, 2012 is another case in point. That morning, just hours before the shooting, the Moon came to conjoin Pluto at 8 Capricorn, but this was no ordinary conjunc-

tion. It was an occultation, literally a “hiding”, of Pluto by the Moon (one in a series lasting 19 months), and the first life Adam Lanza took was that of his mother Nancy (whose namesake asteroid came to its retrograde station that very day). The Moon of course rules the mother, and also early childhood, the age of most of his victims (seven adults were also killed). But for our purposes we see an astounding exact triple conjunction of asteroids: Requiem (named for the funeral mass for the dead), Osiris (named for the Egyptian god of the dead) and Sandra (#1760, for Sandy Hook elementary), all at 6 Capricorn, just two degrees shy of Pluto at 8 Capricorn, and in square to Uranus at 4 Aries, which is itself conjunct asteroid Child (#4580) at 2 Aries.

All but two of the 28 who died that day (including the shooter) have asteroid referents, and all fit eerily well into the astrology of the shooting. But as regards the Uranus/Pluto square, the victims represented are Dawn Hocksprung, the school’s principal, with asteroid Dawn (#1618) at 5 Aries; Mary Sherlach, the school psychologist, with asteroid Mary (#2779) at 13 Aries; Catherine Hubbard, aged 6, with asteroids Kathy (#4711) at 7 Cancer and Kathryn (#2612) at 12 Cancer; Allison Wyatt, aged 6, with asteroid Wyeth (#5090) at 5 Libra; Lauren Rousseau, a teacher, with asteroid Laura (#467) at 10 Libra; Josephine Gay, aged 7, with asteroid Josephina (#303) at 11 Libra; and Chase Kowalski, aged 7, with asteroid Kowalski (#7392) at 16 Capricorn (at eight degrees ahead of Pluto, this is a bit wide, but clearly shows resonance with its exact match to the victim’s surname). Many other victims have PNAs in softer aspects to the square, but well within range by orb.

3. Another sensational killing which made big news was the Valentine’s Day 2013 murder of model Reeva Steenkamp by her boyfriend, Paralympic gold medalist runner Oscar Pistorius, at his home in Pretoria, South Africa. On that day Pluto at 10 Capricorn was joined by asteroid Oskar (#750) at 9 Capricorn (aptly identifying Oscar Pistorius as the murderer), both squaring Uranus (ruling shootings) at 6 Aries. Pluto/Oskar was also conjunct asteroid Praelorius (#4889, for Pretoria) at 12 Capricorn in Oscar Pistorius’ birth chart (born November 22, 1986), defining the venue for the tragedy.

4. More celestial/terrestrial geography lessons can be gleaned from a trio of stories emerging in spring 2013. When the Tsarnaev brothers detonated two bombs at the finish line of the Boston Marathon on April 15th, killing three and wounding or maiming more than 100, asteroid Massachusetts (#4547) at 11 Aries was conjoined Uranus at 9 Aries and exactly squared Pluto at 11 Capricorn, which had turned retrograde just days before. Pluto rules terrorist acts and is the modern ruler of death, and Uranus rules explosives of all kinds, from the pop of a handgun to the blast of a nuclear warhead. [There is also an asteroid Marathon, which at the time of the explosions appears just three degrees off the midheaven, the focus of all eyes, and an asteroid Patria, for Patriot's Day, when the marathon is run, which appears on the descendant with Neptune, ruling victims.]

5. Just two days later, on April 17th, a massive explosion in a fertilizer plant rocked the town of West, Texas, killing 15 and obliterating dozens of homes in a five-block radius. Pluto here is devastation generally, but also rules fertilizers specifically, with Uranus once more providing the spark of explosives. When the plant blew, asteroid West (#2022) was at 9 Cancer, opposed Pluto at 11 Capricorn and exactly squared Uranus at 9 Aries. The difference in magnitude of the two explosions might be explained by the Marathon blast being represented by a more general asteroid for the state, and in exact aspect to the Pluto end of the square, whereas the plant explosion shows an asteroid specific to the town itself, and is in exact aspect to volatile Uranus.

6. On May 6th came news of the miraculous rescue of three young women held captive in a private home in Cleveland for over a decade. Ariel Castro had allegedly abducted Amanda Berry, Michelle Knight and Gina DeJesus in the early years of the new millennium, repeatedly raping and beating them, holding them locked up in his house, even fathering a child by Amanda Berry. The elements of abduction, rape, and abuse are represented by Pluto, who equates to the Greek god Hades, famous for his abduction and rape of Persephone, while Uranus' role is seen in the release and freedom of the captives. When they were discovered and freed May 6th, asteroid Cleveland (#6296) at 5 Cancer squared Uranus

at 10 Aries and opposed Pluto at 11 Capricorn, accompanied by asteroid Ohio (#439) at 12 Capricorn, identifying both the town and the state where the horrific events occurred. Asteroid Knight (#29391, for victim Michelle Knight) appears at 10 Libra, also focused on the Uranus/Pluto square, and forming a grand cross.



7. Speaking of Cleveland, this asteroid emerged prominently in another story of the period, the tornado which devastated Moore, Oklahoma on May 20th, 2013, the very day of the third exact square between Uranus and Pluto, at 11 Aries and Capricorn. The tornado was perhaps the strongest ever recorded, an EF5 with winds of up to 200-210 mph, with a wedge as much as a mile wide and cutting a 20-mile-long pathway through Oklahoman farmland and suburban developments, a meteorological behemoth worthy of the square.

The propensity of this particular square to elicit major weather events might be foreshadowed by the presence of TNO (Trans-Neptunian Object) Typhon at 9 Libra, closely T-squaring Uranus and Pluto. Typhon, from whom we derive our word “typhoon”, was a mythical Greek Titan responsible for massive storms, and although his natural element is water, Typhon the mythic monster also had the power to control the winds, and the eponymous TNO shows up often in prominent placement in charts of all types of weather-related disasters.

So there is a strong predisposition for some disastrous weather to manifest somewhere, but why Oklahoma? When the tornado hit, asteroids Oklahoma (#13688) and Storm (#12182) at 3 and 5 Capricorn were moving in on Pluto at 11 Capricorn,

just edging within orb of conjunction. Moore is in Cleveland County, and asteroid Cleveland at 12 Cancer was even more closely tapped into the Uranus/Pluto square; with Typhon, this created a Grand Cross. [There is also an asteroid Moore (#2602), and while it was not aspected directly to the square, at 27 Pisces it was highlighted on the descendant, which moved from 23 Pisces through 29 Pisces during the period from 3:01 PM CDT to 3:35 PM CDT, while the tornado was destroying Moore.]

8. The summer of 2013 provided much more grist for the PNA research mill. Let's start the ball rolling with NSA secrets leaker Edward Snowden, whose revelations about massive data monitoring by the US government were first published June 6th, 2013. The story began a national conversation which is still reverberating, and brings together two classic Uranus/Pluto elements, technology (Uranus) and secrets or spying (Pluto). When Snowden went public with his information, asteroid Eduarda (#340, for Edward) at 14 Libra opposed Uranus at 11 Aries and squared Pluto at 10 Capricorn retrograde. [Squaring Eduarda was asteroid Russia at 18 Cancer, a bit wide of the Uranus/Pluto square's influence, but well within orb of Eduarda, and describing the future locale of his temporary asylum.] Overnight Snowden had gone from total anonymity to being perhaps the most sought-after man on the planet, his disclosures having major implications for his own freedom (Uranus) while totally transforming (Pluto) his everyday reality.

9. On June 25th Texas state senator Wendy Davis made national headlines with her 11-hour filibuster of anti-abortion legislation, successfully delaying its passage (although Governor Rick Perry called a special legislative session two weeks later which enacted the bill). Davis' slight, almost fragile form, clad in pink sneakers for foot comfort, created an iconic image of (literally) standing up to



authority, the ability of the individual (Uranus in Aries) to oppose entrenched power (Pluto in Capricorn). When Wendy Davis took to her feet, asteroid Wendy (#2993) at 14 Cancer had also walked right into the Uranus/Pluto square, at 12 Aries and 10 Capricorn, with asteroid Texas (#35352) right beside her at 13 Cancer.

10. On the 26th notoriety of a less pleasant variety assailed NFL tight end Aaron Hernandez, arrested and charged with the murder of Odin Lloyd, a friend and semi-pro football player. The New England Patriots player had been involved in brushes with the law before, and is now also being investigated for a double homicide in Boston in July 2012. Pluto's connections to murder are obvious here, and Uranus' natural rulership of Aquarius, governing friends, ties in Odin Lloyd as the victim (as well as the shooting death). At Hernandez' arrest, asteroid Aaronson (#3277, for Aaron) at 7 Libra was squared Pluto at 10 Capricorn retrograde and opposed Uranus at 12 Aries. Close on the midpoint of the square, and in semisquare to each, was asteroid Odin (#3989) at 22 Aquarius, also in exact sesquiquadrate (135 degrees) to Aaronson. Asteroid Hernandez (#19079) at 11 Scorpio also tied to the square, sextile Pluto and inconjunct Uranus.

11. It's not just the famous or well-placed who can be affected by eponymous asteroid interactions with the square. On July 26th the peaceful quiet of a Hialeah, Florida apartment complex was shattered by gunfire (Uranus ruling shootings) and mass carnage (Pluto ruling homicide), when Pedro Vargas shot and killed seven after a dispute with neighbors and the complex's managers. The Uranus/Pluto square was further exacerbated at the time by Mars' entry into the ring (Mars ruling violence and attacks), opposing Pluto from 8 Cancer. When the first 911 calls were made at 6 PM local time, Pluto was exactly rising on the 9 Capricorn ascendant, with Mars just setting on the descendant, adding additional angular emphasis to the moment. Incredibly, Pluto was accompanied by asteroid Vargas (#29133) at 7 Capricorn, with asteroid Peter (#1716, for Pedro) in trine to Pluto and sextile Mars from 8 Taurus. Vargas' nickname in the family was "Albertico", and asteroid Albert (#719) filled out the cardinal grand cross from 6 Libra.

Jupiter added fuel to the fire, encouraging excess and out-of-proportion responses from 6 Cancer, where it conjoined Mars, opposed Pluto, squared Uranus and exactly squared Albert. Asteroid Icarus, noted for rash, reckless behaviors heedless of the consequences, lent support for the shooting spree from 10 Capricorn, conjoined Pluto/Vargas. [Born October 3, 1970, Vargas' natal Sun/Uranus conjunction at 10 and 9 Libra, which in itself indicates a volatile, explosive personality, had been stressed repeatedly by the square over the previous year, with transit Pluto exactly squared natal Uranus at the shooting, in which Vargas also died, killed by police.]

12. On August 5th, New York Yankee third baseman Alex Rodriguez was given a whopping 211 game suspension for his use of illegal PEDs, "performance enhancing drugs," to up his game. Rodriguez is appealing the decision, and can continue to play ball in the interim, but the ruling, which would bar him from baseball through the 2014 season, effectively ends the 38-year-old's career. Asteroid Alex (#3367) is exactly conjunct Uranus at 12 Aries, denoting the disruption to Rodriguez' life and career, as well as the high tech pharmaceuticals he allegedly used, with transit Mars, ruling sports figures and athletes, an integral part of the square from 15 Cancer. Along with Pluto at 9 Capricorn, asteroid Rodriguez (#13760) at 17 Libra fills in the missing leg to create a grand cross.
13. Finally, for the summer of 2013, the disaster-that-wasn't. On August 20th, 20-year-old Michael Hill slipped into McNair Elementary School in Decatur, Georgia, behind a staff member who had access to a restricted entrance. Armed with an AR-15 assault rifle, Hill confronted staff and allegedly let off half a dozen rounds before responding officers returned fire, and Hill surrendered. Thankfully, no one was injured. But the intent was clear, and well reflected in the day's sky. Asteroid Hill (#1642) exactly opposed Uranus from 12 Libra, with asteroid Michela (#1045, for Michael) at 12 Scorpio, exactly inconjunct the planet ruling shootings. Asteroid Georgia, representing the state in which the incident occurred, joined in the mix from 15 Cancer, squaring Uranus and Hill, forming a loose grand cross by broad opposition to Pluto at 9 Capricorn.

14. Uranus/Pluto PNA manifestations continued throughout the year. On November 1st, shots rang out in Los Angeles International Airport. The gunman, 23-year-old Paul Ciancia, apparently disgruntled with government in general, targeted unarmed TSA agents at LAX, killing one and wounding seven, spreading panic among passengers waiting to board flights. Ciancia was wounded and taken into custody by police less than ten minutes after his spree began.

Asteroid Paul (#3525, for shooter Paul Ciancia) at 10 Aries retrograde was closely conjoined volatile Uranus, ruling shootings, at 9 Aries retrograde, on that very day forming its fourth of seven squares with Pluto. At the time this planet of violent destruction was also conjunct asteroid Icarus at 8 Capricorn, representing rash, reckless actions.
15. Two unusual stories emerged on November 5th, one a triumph of justice long delayed, the other a train wreck still in the making. Missouri native Ryan Ferguson, 29, saw his 2005 conviction for murder vacated by an appeals court, after key prosecution witnesses recanted their testimony. Ferguson was freed on the 12th, and this story, thankfully, emphasizes the “freedom” aspects of Uranus’ bipolar personality, with asteroid Ferguson (#1745) at 10 Aries retrograde conjunct Uranus at 9 Aries retrograde, and asteroid Ryan (#21936) at 12 Cancer retrograde in square to both, also exactly squared Uranus’ prior retrograde station. Ryan was also in exact sextile to asteroid Themis at 12 Virgo, named for the Greek goddess of justice, and trine to the Sun at 13 Scorpio, that day making its annual conjunction with asteroid Sisyphus (named for the denizen of Hades doomed to forever roll a rock uphill, only to have it roll back again), representing a repetitive struggle against impossible odds (Ferguson’s legal team had been battling the conviction for a crime he did not commit for 8 years). Themis was also exactly conjunct transit Mars, representing the violent death with which he had been wrongly accused, and bringing justice to the matter at last.
16. The other story from November 5th is still unfolding, involving embattled Toronto, Canada mayor Rob Ford. In May rumors surfaced of a video showing the mayor smoking crack cocaine, but as no news outlets or websites were willing to pay the requested fee for

the footage, the matter rested after Ford's strenuous denial. Ford has a well-established history of public drunkenness, with early arrests for DUI and marijuana possession, which became issues during his campaign for mayor in 2010, but no record of a prior incident involving hard drugs.



Since his election, Ford has been videoed on at least three occasions, both publically and in his office, while clearly intoxicated and belligerent, including St Patrick's Day 2013 and an August 2013 local food festival. On October 31st the Toronto police department confirmed that they were in possession of the tape showing the mayor smoking crack cocaine, which Ford finally confessed to in a November 5 press conference, stating he had tried the drug once, "probably in a drunken stupor."

Over the next ten days additional allegations, of public drunkenness, drug use, and sexual harassment emerged, with some very entertaining, if inappropriate and bizarre, responses from Ford. Throughout, the mayor has staunchly refused to resign, take time off, enter rehab, or in any way address the situation, stating he will remain in office and run for re-election next year (he was in fact the first in line to file the required paperwork, on January 2, 2014). Finally on November 15th, the Toronto City Council, which does not have the authority to actually remove Ford from office, voted to strip him of all but his ceremonial functions, and there the matter lies as of this writing.

When the firestorm broke with Ford's admission of crack use on November 5th, asteroid Roberts (#3428, for Robert "Rob" Ford) at 5 Capricorn was conjunct taboo-and-scandal-ruling Pluto at 9 Capricorn (Pluto also associated with drug use via its rulership of Scorpio). Accompanying Roberts and Pluto were asteroids Icarus at 9 Capricorn, representing rash, reckless actions heedless of the consequences, and Pandora at 4 Capricorn, that image of "opening a can of worms" and unwittingly releasing a host of troubles. Pluto/Icarus together were also exactly conjoined

Rob Ford's natal (born May 28, 1969) asteroid Askalaphus at 9 Capricorn, a point noted for tale-bearing, representing the host of eyewitness allegations about his conduct soon to emerge.

17. On December 1st, a Metro-North commuter train bound for Grand Central Terminal derailed ten miles short of its goal, in the Bronx. Four passengers were killed and more than 60 injured when the train failed to make a particularly severe curve, sending the engine and all seven cars off the tracks, some of them landing within yards of the Hudson River. The train's event recorders logged a speed of 82 mph as the locomotive neared the curve, which should have been navigated at no more than 30 mph. Engineer William Rockefeller admitted to "drifting off" shortly before the crash, and was unable to recover himself quickly enough to avert the disaster. Among the dead were Donna Smith, 54; James Lovell, 58; James Ferrari, 59; and Ahn Kisook, 35.

What jumps out immediately as regards PNAs is the "coincidence" of half the victims with the same first name, James. Asteroid James (#2335) at 5 Capricorn is just entering Pluto's orb, at 10 Capricorn, the modern ruler of death, and in square to Uranus, ruler of accidents, at 8 Aries, thus activating the hot zone of their ongoing square.

18. On December 13th another school shooting occurred, in Centennial, Colorado, just miles from Columbine and Aurora, the locales of prior mass shootings. This one mercifully kept the carnage to a minimum, when disaffected debate team member Karl Halverson Pierson attempted to find and kill his coach, Tracy Murphy, who had recently cut him from the team. Unable to locate him, Pierson shot and fatally wounded fellow student Claire Esther Davis, who was just in the wrong place at the wrong time, then turned the gun on himself. Davis lingered in "very critical condition" for just over a week before dying on December 21st.

Asteroid Centenaria (#1240, for Centennial, CO) at 9 Cancer was traveling with asteroid Lachesis, named for the mythic Greek Fate who determines the span of life, at 8 Cancer, and together these were directly in the crosshairs of the Uranus/Pluto square, at 8 Aries and 10 Capricorn when the shooting occurred.

Asteroid Halverson (#24059, Karl Pierson's middle name) at 3 Libra was conjoined Mars, ruling violent acts, at 2 Libra, both squared asteroid Clara (#642, for Claire Davis) at 0 Capricorn. Mars/Halverson are also just entering the hot zone of the Uranus (shootings)/Pluto (death) square, and appear at the 1 Libra Descendant for the incident, which began with Pierson's entrance to the school at 12:33 PM MST. At that moment asteroid Clara was exactly on the 0 Capricorn midheaven, perhaps prompting her involvement and subsequent visibility in the story.

19. On December 19th New Mexico became the 17th US state to recognize same-sex marriage, when Justice Edward Chavez of the New Mexico Supreme Court issued a verdict in favor of plaintiffs Miriam Rand and Ono Porter, a lesbian couple who had sued the state for the right to marry. County offices began issuing marriage licenses to same-sex couples the same day.

With same-sex marriage so prominent in the news this year, it's not surprising to find that Sappho, named for an ancient Greek lesbian poet and representative of gay issues generally, and Hera, named for the Greek goddess of marriage, have been traveling arm-in-arm throughout 2013. Never more than six degrees apart, the pair were within 2-3 degrees for most of the year. Appearing at 5 and 8 Sagittarius for the New Mexico ruling, they are interacting by sextile with the ongoing Mars/Ganymed (named for Zeus' cupbearer and underage boy-toy lover) conjunction at 5 and 9 Libra, putting homosexual activity front and center. Also involved are PNAs Miriam and Randa (#102 & 3928, for NM plaintiff Miriam Rand) at 7 and 8 Libra, also within range of the ever-contentious Uranus/Pluto square, which brings so many private persons into the public limelight. The fine hand of the square is seen here in Uranus' rulership of equality, and Pluto's governance of taboo and sexuality.



Summary and Final Thoughts

The facts presented above are only the tip of the iceberg in the PNA research I have conducted extensively since 2005, limited in scope to just those interactions with the Uranus/Pluto square. In each of these stories, and in countless others throughout the period, additional PNAs related to the event appear prominently juxtaposed with “standard” celestials and mythically-named minor planets evocative of the themes central to the narrative.

How this mechanism operates is, frankly, beyond me. When we see a news item about a shooting death, and find Uranus and Pluto active in square, that’s one thing. Uranus and Pluto are megaliths astrologically, conveying many meanings and with literally millions of possible manifestations to their union, providing lots of “wobble room” for the outcomes. But when we see asteroid Alex joining the mix on a day when a random mass shooting leaves three Alexes dead in one room, that’s quite another thing entirely, concrete and incontrovertible, not subject to speculation or wishful thinking. The specificity of these points in tandem with the prominence of their namesakes in news events reflecting similar-themed celestial patterns makes for a truly fascinating study.

The implications of this research with PNAs for issues of Fate and Free Will are staggering. Do we in fact “control” anything? Or is it all subject to the finely tuned tick-tock of a clockwork universe, where destiny is mapped in the heavens and we merely play our predetermined part?

Endnotes

1. The issue of the three Alexes killed in Aurora raises an important point about PNAs. Obviously, not every Alex on the planet had an encounter with death that day; the natal chart rules all, and each of these individuals had pertinent transits which encouraged this manifestation. But during the period when asteroid Alex was conjoining Pluto, each individual associated with that name should, in theory, have had some level of increased interaction or involvement with Plutonic themes, of whichever sort, to one degree or another. The extent of this involvement would be determined by the issues in the natal chart, the impact of the transiting conjunction upon it, and the influence of additional transits and progressions in effect at the time. But the overall “astrological

weather forecast” for Alex-related individuals planet-wide is definitely for “stormy weather” of some sort while the conjunction is in effect.]

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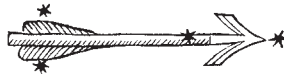
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On the Validity of Jonas's Theory

Kyösti Tarvainen



ABSTRACT

According to Eugen Jonas, women have, in addition to the normal ovulation cycle, another fertility cycle, which reaches a peak each time the transiting Sun and Moon have the same phase as at the woman's birth. The validity of this theory was studied in the case of 37,947 mothers included in the data collected by the Gauquelins for heredity studies (Archives Gauquelin, 2009). This study gave clear support to the fact that a part of conceptions is related to the mother's Moon phase. But with this data it is not possible to discern if there really exists two distinct fertility cycles since, by some women, the ovulation cycle may be synchronized to the Moon phase at the birth. Another part of Jonas's theory is that the sex of the child is determined according to the polarity of the Moon sign at the conception. No support was found for this claim.

Jonas's Fertility Theory

The Czechoslovakian Doctor Eugen Jonas claimed (Ostrander and Schroeder, 1972) that the woman has two fertility cycles: she can be pregnant according to the normal ovulation cycle and also when the phase of the Moon (the degrees the Moon is ahead of the Sun in the Ecliptic) is the same as at the birth of the woman. Jonas was lead to this assertion due to the fact that the rhythm method for birth control often failed and that, in ancient Assyrian-Babylonian texts, it was said that a woman is fertile according to the Moon. A second claim by Jonas concerns the sex of the child; this is dealt with later in this paper.

Dean (1977, p. 480) mentions studies that are made to test the validity of Jonas's theories. Information on these studies is mostly based on Dean's personal communication. There are only two published studies (Miller, 1972; Christilles, 1973). They, as well some undocumented studies, do not give support to Jonas's theories. But Dean mentions an unpublished study by R. Kimball and W.H. Kautz. The study lasted 3 years and involved 500 women. The researchers' conclusion was that the Jonas theory is mostly but not completely wrong. Dean mentions also some cases where claims supporting Jonas are made, but no details are given.

In this study, the data is a part of the Gauquelins' heredity data (available in the website <http://cura.free.fr>). The data consists of 37 947 mothers and their children. The first part of the heredity data can be seen in the Internet page <http://cura.free.fr/gauq/902gdB1.html>.

Correlation between the Moon phase at the mother's birth and at the conception

It would be very easy to check Jonas's Moon phase theory if the gestation period from fertilization to birth was exactly the same for each woman and if all fertilizations would happen during the same Moon phase the mother has in her chart. But since these two things do not hold, we use statistical methods in the following way.

We consider here two Moon phases (expressed as a number between 0 and 360 degrees): in the mother's chart and at the fertilization. Let us first assume that we knew the average gestation period from fertil-

ization to birth. Then, using this average value we can go back from the birth time of a child and determine an estimated fertilization time and its Moon phase.

Since we here use an average gestation period and since not all fertilizations are expected to happen at the mother's Moon phase, the two considered Moon phases are usually not the same, even if Jonas were right. But if he is right, we would, even in the middle of these variations, expect that there is a tendency that if the mother's Moon phase is small, then the estimated Moon phase at fertilization is often relatively small, and if the mother's Moon phase is big, then the estimated Moon phase at fertilization is often also rather big.

The magnitude of this kind of tendency is usually measured by *Pearson's correlation coefficient*¹. The maximum value of this correlation coefficient is always 1. This would mean, in our application, that the two phases are the same for each child. If its value is 0, this would here mean that there is actually no such tendency as described above, indicating that Jonas is not right.

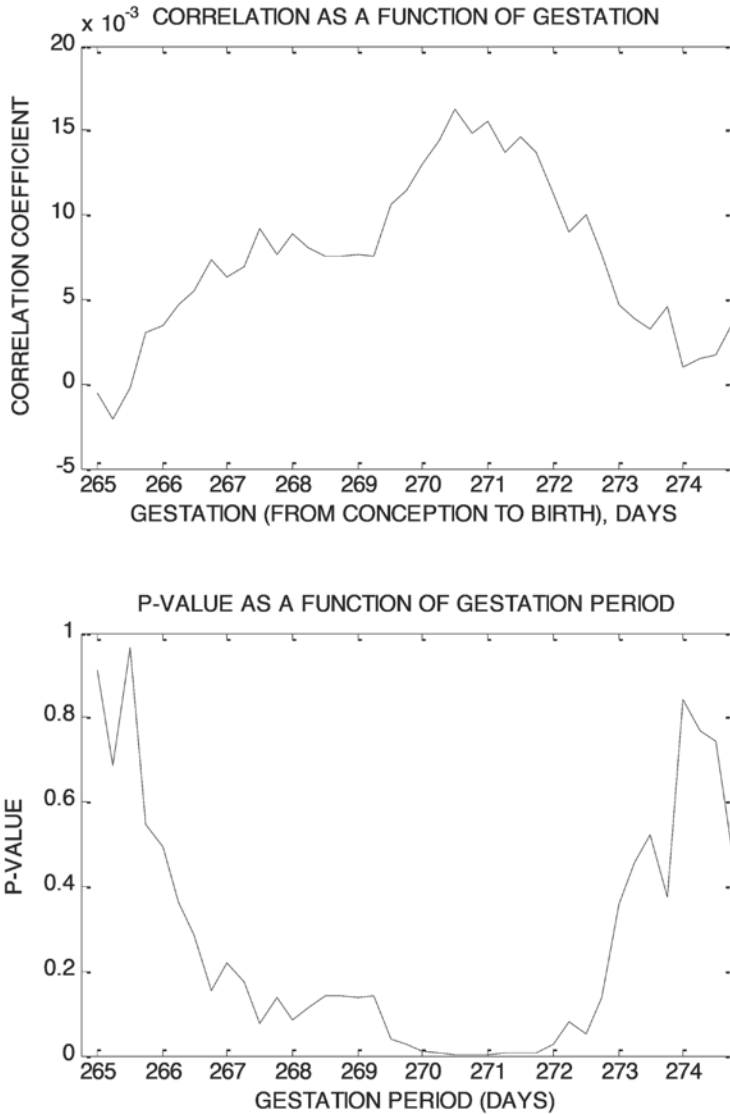
Since, in the considered data, we do not know the exact average gestation period, we do so that we determine the correlation coefficient for different average gestation periods. Thereby, we obtain the upper subplot of Fig. 1.

It was mentioned that if the correlation coefficient is zero, this indicates that there is no correlation between the two phases and Jonas is not right. But the correlation coefficient can be also non-zero for random reasons, even if there is no correlation. Therefore, one also determines the probability that a non-zero correlation coefficient has been aroused by pure change.

This kind of probability is called the *p-value*². If the p-value is below 0.05 (5%), it is custom to say that the obtained result is *statistically significant*. The lower subplot of Fig. 1 shows how the p-value varies when we use different average gestation periods.

Figure 1 (Page 26) Upper subplot: Pearson's correlation coefficient between the Moon phase (0...360 degrees) at the mother's birth and at the estimated conception. The correlation is drawn as a function of the assumed constant gestation period. Lower subplot: the corresponding p-value.

Figure 1



In the upper subplot of Fig. 1, we see that the peak value of the correlation is 0.0162 when the used constant gestation period is 270.5 days. Even if the correlation coefficient is a small number, the corresponding p-value 0.0016 is, due to the great amount of data, statistically very significant. In the lower subplot, we see that the correlation is statistically

significant for gestation periods ranging from 269.5 days to 272 days. Let's consider how realistic these gestation periods are.

According to Mittendorf et al. (1990), the pregnancy from the date of *ovulation* lasts 274 days for the first born child and 269 days for subsequent pregnancies. No accurate estimates are known for the time it takes from ovulation to conception. But this average time may be only some hours, since usually the egg meets the sperm in the fallopian tube soon after the ovulation, and less often the egg waits for the sperm.

In the Gauquelins' heredity data, there are mothers and, for each mother, one, two or more children. Actually, even for a single child or a first one in this data, we do not know whether this child is the mother's first child. Therefore, we are not able, using Mittendorf's information, to determine the exact average gestation period in this data. But we can estimate it in the following way.

If we assume that, in the data, there are as many first born children as others, the average gestation time from ovulation to birth would be $(269+274)/2 = 271.5$ days. Assuming that one third of the children are first born, we get the average $(2*269+274)/3 = 270.7$ days. This would be the case if mothers would have on average three children and the data would contain a random sample of children.

The gestation periods from conception to birth are probably, as mentioned above, some hours shorter than these values and are, thus, in the interval from 269.5 to 272 days where p-values are statistically significant (cf. the lower subplot of Fig. 1). Hence, we obtain clear support to the claim that a part of the conceptions is related to the Moon phase of the mother.

The obtained maximum correlation coefficient is small for two reasons. First, gestation periods vary much (cf. Dean, 1977, p. 478). Secondly, clearly not all conceptions follow the Moon phase of the mother. It was estimated that 30% of the conceptions happened at the mother's Moon phase with an orb of 15 degrees (in simulations³, the amount 30% gave the observed correlation coefficient). By pure chance, this would happen in only 8% ($=30/360$) of cases.

The orb of 15 degrees is used by Jonas (note the Moon phase varies from 0 to 360 degrees). Jonas claimed that 70-85% of conceptions happen at a time when the transiting Sun and Moon reach the same angular relationship (± 15 degrees) as in the mother's natal chart (Dean, 1977). We did not obtain support to such high percentages, but a smaller one.

Computer program for studying Jonas's theory about child's sex

In addition to the Moon phase theory, Jonas claimed that the sex of the child is determined according to the polarity of the Moon sign at conception: if the sign is feminine, a girl will be born, if masculine, a boy is born.

Jonas considered the sex of a child in the following way. His starting point was that the conception takes place at the same Moon phase as the mother has. Conceptions can thus occur at an interval of 29.5 days. Based on the weight and height of the baby he estimated the gestation period and then selected the nearest date among those having the mother's Moon phase.

Then, he checked whether the Moon at the arrived conception moment is in a masculine sign by each boy and in a feminine sign by each girl. In the book by Ostrander and Schroeder (1972), ten sex prediction calculations made by Jonas are reproduced. At least in three cases, the nearest date having the mother's Moon phase is not selected⁴, which casts doubt on the reliability of Jonas's original research on children's sex.

In the present data, there is no information about the weight and height of the baby. But we can partly follow the above Jonas's procedure by using an average length of the gestation period. Figure 2 illustrates this procedure. The time points A, B and C about 9 months before the birth of a child are such that the Moon phase is the same as in the mother's chart.

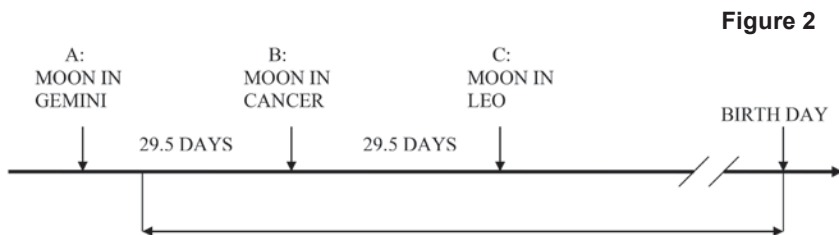


Figure 2. At time points A, B and C, the Moon phase is the same as in the mother's chart. Point A is selected as the conception moment since it is closest to the time point obtained using an average gestation period.

If we knew the weight and length of the baby and possibly other information, we could with a great probability select the right concep-

tion day among the three moments A, B and C. In the Gauquelins' data, we do not have this information. Therefore, we use an average gestation period as a starting point for determining the conception day. Time point A (Moon in Gemini) is the nearest point to the estimated conception moment, and, in the computer program, we take point A as the conception moment meaning that a boy should be born according to Jonas.

We then compare this sex to the real sex of the child. When considering all births this way, we can determine the hit rate how often our retrospective sex forecast is right. Since we do not use information of the weight and length of the baby, the hit rate cannot be 100%. But anyhow, it is clear that the average gestation time works in many cases, whereby we would have a hit rate clearly over 50%, provided Jonas is right.

When the computer program was applied to the Gauquelins' data, a hit rate of 49.8 % was obtained for the average gestation period of 270.5 days. For assumed average gestation periods of 268-272 days, the hit rate varied 49.7-50.1 %. Hence, in the Gauquelins' data, no support was found for the sex claims of Jonas since by pure chance the average hit rate is 50%.

Summary

It was observed that the Moon phase at the mother's birth and at the estimated conception correlate in a statistically significant way. A difficulty in this study is the estimation of the conception time. But we saw that, when we let the average gestation period from conception to birth vary from 269.5 days to 272 days, the correlation is statistically significant, and it was estimated that, in this data, the average gestation period is, indeed, in this interval.

Hence, there seems to be some truth in the ancient Assyrian-Babylonian texts that a woman is fertile according to the Moon. In the Gauquelins' data, about 30% of conceptions seemed to follow the mother's Moon phase (with an orb of 15 degrees). By pure change, we would expect this happen in only 8% ($=30/360$) of children.

This is an interesting result as such. But with this data it is not possible to say that there really exists two distinct fertility cycles as claimed by Jonas since, by some women, the normal ovulation cycle may be synchronized to the Moon phase at the woman's birth. This was pointed out as a possibility by Ostrander and Schroeder (1972, p. 161). Hence, in fur-

ther studies, one could investigate how a woman's Moon phase generally correlates with the Moon phase at the onset of her menstruation.

No statistical support was found for Jonas's second claim that the sex is determined by the Moon sign (masculine or feminine) at the conception. Severe inaccuracies were found in Jonas's original sex determinations (see Note 4). In further studies, the sex claim could be easily studied with a much smaller set of data if estimates for ovulation times can be determined, which is now much more easier with modern techniques than in Jonas's time.

Acknowledgements

Many thanks to Dr. Patrice Guinard for the Gauquelins' data at the website: <http://cura.free.fr> and to the reviewer for valuable comments.

Endnotes

1. For more information on correlation coefficients, consult Wikipedia or statistics books. Correlation coefficients are usually determined by statistical computer programs or by, for example, Excel.
2. More information on p-values can be found in Wikipedia and statistics books. P-values are usually determined by statistical computer programs.
3. In simulations, artificial mothers and children were generated by the computer. A part of fecundations happened randomly, but an extra part happened at the same Moon phase (+/- 15 degrees) the mother has in her birth chart. It was noticed that when the total share of the same phase fecundations was around 30%, the correlation coefficient for the considered two Moon phases was the same as in the real data. For the value 30%, the so called 95% *confidence interval* used in statistics was estimated to be 18-43 %, when the chance probability is, as mentioned in the same paragraph, 8%.
4. In Ostrander and Schroeder (1972, pages 228-232), ten cases out of 100 sex predictions are reproduced (a hit rate of 83 % is claimed for the 100 cases). In each of these ten cases, Jonas predicted correctly the child's sex in the backward way explained in the text. These chart calculations were checked by computer and no errors were noticed in technical calculations. But there are four cases where the conception is taken to happen before the last menstruation, even if this (bleeding after the ovulation) is rather rare. In three of these cases, the selected conception date having the mother's Moon phase doesn't seem to be the most likely. In case number 23, the newborn

weights 3 200 grams and is 48 cm high, being below average (distributions of the weight and length of babies are reported by, for example, Blidner et al., 1984). However, Jonas has assumed a gestation period of 285 days, which is longer than the average. If he had chosen the gestation period of 254 days that is below the average, he would have the sex wrong. The case number 11 (3 070 grams, 46 cm, an assumed gestation period of 276 days) is similar. In the case number 13, the weight 3 400 grams and height 52 cm are close the average values; however, a very long gestation period of 297 days is assumed, even if a period of 267 of days with the same Moon phase is close to the average. Also in the fourth case, number 11, the assumed conception occurs before the last menstruation (33 days ahead); the newborn is big (4 950 grams, 54 cm), but the assumed gestation period of 307 days is probably too long. In all, Jonas's sex determinations seem unreliable.

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Western Professional Astrologers' Identification with Developmental Levels of Consciousness

Armand Diaz



ABSTRACT

This study explored consciousness development in professional astrologers. Twenty-seven professional astrologers participated by completing an online survey that measured their identification with seven developmental tiers, based on established models of consciousness development. The survey tool focused on general beliefs and values rather than astrological content. Results showed that as a group the astrologers had stronger identification with the middle to upper range of consciousness that were included in the instrument, with comparatively weak identification with the lower levels. Although results are preliminary, this study shows that professional astrologers are not identified with levels of development where superstition, self-centeredness, and limited ability to take others' perspective dominate. Rather, the astrologers surveyed identified with levels where multiple perspectives are recognized, values extend beyond the individual self, and a wide circle of caring is present.

Introduction

Critics of astrology often associated it with an unsophisticated, pre-modern worldview. If this were the case, we would expect that astrologers would identify with such a worldview across a range of values and beliefs, including those that have little or nothing to do with astrology. The aim of this study is to see whether that assumption would be supported in a survey of the worldviews and beliefs of professional astrologers.

In recent decades, models of consciousness development have become increasingly comprehensive and detailed, and have been well supported with¹. These models generally present the evolution of consciousness through a series of sequential stages that reflect both individual and collective development. The impetus for development varies, and may include such factors as neurological maturation and changing life conditions. Each level of consciousness represents a more complex, cohesive, and inclusive perspective than the levels preceding it. More than a set of skills or attitudes, the particular kind of consciousness structures a worldview, a comprehensive way of seeing the world. Essentially, it creates (a) reality. Consciousness development takes place within individuals and also within societies (collections of individuals), as well as across historical epochs.

Because collective as well as individual development is taken into account, it is possible to find a degree of coherence between stages of development historical ages and individual development. For example, the highly egocentric period of Iron Age kings and early Homeric Greece would be correlated with the Terrible Twos of personal development. Although cognitive skills of people in the historic era may have far outpaced those of a two year old, the basic psycho-emotional and moral worldview can show remarkable similarity. Several thousand years ago, this represented an innovation in consciousness, while in contemporary society a person whose overall development is arrested at this stage may go on to exhibit narcissistic or sociopathic personality traits.

This study uses a version Jenny Wade's *holonomic* model of consciousness development in conjunction with Beck and Cowan's *Spiral Dynamics* as a means to assess astrologers' level of identification with seven sequential, hierarchically arranged, worldviews². This study does not seek to find an overall, comprehensive understanding of the consciousness development of its participants, but rather to find where they

self-identify (perhaps the highest developmental stage to which they aspire, rather than the one from which they act).

Methodology

Participants for this study were 27 professional astrologers from Europe, North America, and Australia/New Zealand. Although there is a great deal of variation in the consciousness of people within any society, this initial study focused only on astrologers living within the Western cultural sphere, and did not include astrologers living in India, Southeast Asia, or South America, where there are sizable astrological communities. Astrology did not need to be the only vocational activity of the participants, but they did need to offer services to the public in exchange for compensation. Participants were recruited through social networking sites and astrology groups, and therefore this study does not represent a comprehensive cross-section of the astrological community. Participants were made aware that the study was about the attitudes and beliefs of astrologers, but more specific information was not offered until the study's completion.

Each participant was sent a link to a Google Docs survey tool. The survey was answered anonymously, and consisted of 35 items, adapted from a survey tool developed by the researcher for a similar study of psychic-mediums. Each item contained a statement reflecting general worldviews and values, followed by a seven-point scale with "Strongly Agree" marked on one end, and "Strongly Disagree" on the other. Participants were instructed to mark each item according to how much they agreed with the statement.

The 35 items were comprised of five statements for each of seven developmental levels. Three of the statements for each level were made in direct, positive form (to agree with the statement is to identify with the developmental level) and two were in negative form (to disagree with the statement is to identify with the developmental level). Each statement had a possible value between 0 (minimal or no identification) and 6 (strong identification). The 35 statements were presented in random order.

The seven developmental levels were based on an adaptation of Wade's (1996) and Beck and Cowan's (1996) models: Magical, Egocentric, Traditional, Modern, Humanistic, Integral and Transcendent.

Results and Discussion

The average for each of the seven developmental levels was calculated, along with the

standard deviation for each level (See Table 1). As a group, the professional astrologers showed the greatest level of identification with Integral and Transcendent consciousness,

and a strong identification with Humanistic consciousness. These represent the three highest levels of consciousness explored in this study. Identifications with Magical, Egocentric, and Modern consciousness were the lowest, while a slightly greater identification with Traditional consciousness was noted. Although individual responses reflect diversity of the participants, an overall identification with the upper three levels of consciousness is apparent.

Table 1
Results for all participants as a group

Developmental Level	Mean/Level (maximum 30)	Standard Deviation
Naïve/Magical	7.07	3.01
Egocentric	4.26	3.49
Conformist/Traditionalist	12	4.21
Achievement/Modern	7.11	3.03
Affiliative/Humanistic	17.59	4.99
Integral	20.15	3.16
Transcendent	20.15	4.78

Magical consciousness is associated with magical thinking, a high degree of preservation of sameness in both beliefs and activities, and an incomplete differentiation of the ego from one's clan or group. Personal and group superstitions, fear of change and difference, and concrete thinking dominate consciousness at this level. Identification with this level was weak among professional astrologers.

Egocentric consciousness is characterized by a "Look out for

Number One” mindset, as the newly formed independent ego recognizes its vulnerability. Concrete thinking, fear of change and difference, and a deep need for control are characteristic of this type of consciousness, which had the lowest level of identification among astrologers.

Traditionalist consciousness develops as the need to cooperate becomes apparent, and identification becomes ethnocentric rather than egocentric. Abstract thinking becomes dominant, to the point where rules, types and other abstractions can become more important than actual objects and experiences (e.g., Platonic forms are the real reality). Belief in a universal *way* develops. Truth is passed down from authority and generally accepted without question. Although this form of consciousness first appeared in antiquity, it continues to represent the high water mark of development for most people today. The professional astrologers surveyed had a modest level of identification with Traditionalist consciousness, perhaps reflecting the ongoing influence of this worldview.

Modern consciousness is associated with an unflinching belief in progress and personal independence. The dominance of habit and tradition that are prevalent in prior levels are replaced with a confidence that with the proper cognitive tools in place each individual can discover truth for himself or herself. The scientific method is a key part of this type of consciousness. A materialistic worldview is not uncommon, and an emphasis on personal achievement and its tangible rewards are a side-product of modern consciousness. The astrologers surveyed had little identification with this level.

Humanistic consciousness follows closely on Modern, and reflects a desire to be inclusive and compassionate in addition to being successful. While Modern consciousness continues to assume that a single truth exists, Humanistic consciousness recognizes that truth varies depending upon perspective. Group identification is strong, but based on values and ideals rather than ethnicity or geography. The Civil Rights, Women’s Rights, Gay Rights movements, the New Age and the Green movements all reflect this tier of consciousness. Professional astrologers in this survey had a strong identification with statements reflecting Humanistic consciousness.

As described by Wade, Integral consciousness recognizes the value of the entire developmental process, and essentially corresponds to Abraham Maslow’s concept of self-actualization¹. Truth is seen as con-

textual, and even ideals are tempered by situational dynamics. Flexible Transcendent consciousness focuses on overcoming the limitations of ego and (re)uniting with the fundamental source of consciousness. The astrologers who participated in this research had the greatest degree of identification with these last two levels.

Although these are not the only levels of consciousness recognized in the developmental literature, they are the levels that are most likely to be prominent among working professionals, and they are the levels that are most accessible via a brief survey tool. It is important to emphasize that consciousness development is a complex process, and individuals vary in their functioning depending upon a variety of factors. For example, a person may be inclined towards a Humanistic approach in social and political matters and a Modern perspective in career, while having a Traditionalist view of personal relationship. Stresses may result in movement to a higher level of consciousness, but may also result in a (potentially temporary) regression to a lower level.

It is not possible to make an assessment of an individual's mean level of consciousness with a survey of the kind used in this study, and the functional utility of finding such an average level of consciousness may be very limited. What can be done within the scope of a simple questionnaire is to discover a person's point of identification with various levels of consciousness. Higher levels of consciousness do not have appeal to individuals whose psychic center of gravity is at lower levels, and vice-versa. The farther apart two levels are, the less likely that an individual participates robustly in both.

The earlier-emerging levels of consciousness were the least identified with by the participants. If astrologers were truly acting from a primitive, superstitious, naïve or egocentric consciousness, we would expect a higher level of identification with the statements characteristic of these levels, such as "It is generally unsafe to change the way we do things" and "More or less, I feel that I am on my own, in competition with others around me." Such statements reflect the assumptions of the Magical and Egocentric levels of consciousness, and would appeal to people with a strong identification with those levels.

Similarly, statements reflecting Humanistic consciousness, such as "Although we may hold different views and ideas, at a deep level we are all fundamentally equal" would neither appeal to nor make sense to someone whose identification was at the Magical or Egocentric levels.

The same would be true of Transcendent level statements, such as “All things are interdependent, and what we do to one part of reality, we do to the whole.” Although the participants can be expected to reflect a diverse mosaic of developmental levels, both individually and as a group, it is apparent that their identification clusters towards the upper end of the spectrum rather than the lower end.

For comparison purposes, Beck and Cowan describe the baseline of American society as being around the Traditional/Modern levels, and European society around the Modern/Humanistic levels.

This study had the modest aim of making an initial exploration of the worldview of professional astrologers within the framework of models of consciousness evolution. Although the findings are quite preliminary, they challenge the belief that astrologers are operating from a more primitive psycho-emotional level of consciousness, and instead point towards a view of the professionals as having a sophisticated cognitive-emotional worldview and tending towards self-actualization.

Summary and Conclusions

Astrology has long been on the outside in the Western world. When the Catholic Church dominated Europe, astrology had to present itself as a natural science. With the rise of scientific materialism, astrology was unable to meet criteria as a science, and fell into a fallow period. When it reemerged in the late 19th century, it presented as a more spiritual discipline in contrast to the dominant materialistic worldview. While its compensatory function in the contemporary world may be valuable, astrology is often ridiculed as superstition, and its adherents are characterized as foolish, naïve, gullible, and immature. Particularly among those with a Modern worldview (dominant in the West), the lack of material explanations for astrological phenomena and difficulty in measuring astrological effects scientifically are considered damning evidence against astrology, and, by extension, astrologers.

Those in the astrological community will have noticed that astrologers are *not* childlike *Pollyannas* holding onto wishful beliefs while denying hard reality. To the extent the astrological community has been able—given funding limitations and practical and theoretical roadblocks—we have endeavored to show that we can indeed participate in the modern,

scientific world by engaging in an empirical approach to astrology. This study took a different approach: rather than trying to show that astrology itself is scientifically verifiable, it focused on the practitioners of the ancient discipline, examining their beliefs and worldviews.

The professional astrologers who participated in this study clearly do not have a strong identification with the kinds of pre-modern, simplistic thinking that characterizes the earlier levels of consciousness. Since developmental stages appear in a predictable sequence, it is nearly impossible to display a strong identification with higher levels of consciousness—as the participants in this study did—if truly anchored at the lower levels.

This study is confined to astrologers living within the Western cultural sphere. Therefore, further research studies are warranted to include astrologers from other cultures to confirm the findings of this study. The preferred method for investigating worldview and consciousness stages would then be through in-depth interviews rather than a questionnaire format.

Astrologers need not prove their art or themselves to anyone. But they would do well to understand as much as possible about both, for their own benefit. They should continue astrological research along many lines, broadening their understanding of the system, its practitioners, and its function in the contemporary world.

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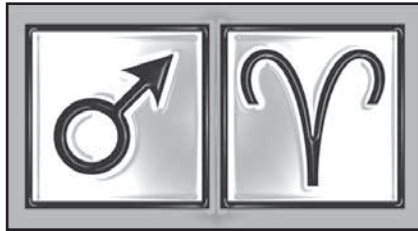
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The Mars-Aries Ingress and Temperature Trends Recorded in Three Data Sets

Bruce Scofield



ABSTRACT

The passage of Mars over the vernal point, or first degree of Aries, is examined using several daily mean temperature datasets – one from Central Massachusetts and two from Europe. Some temperature volatility is noted near the date of the ingress and, in Central Massachusetts, a general warming trend is recorded. Daily temperatures in Europe do not show a warming trend at the time of a Mars ingress. The simultaneous passage of the Moon or the Sun over the equinoxes appears to enhance temperature volatility. The passage of Mars over the autumnal equinox shows a very small rise in temperature sustained for several days. No mechanism for this weak effect is known.

The vernal point, the intersection of the plane of the ecliptic and the plane of the celestial equator, designates a point in space that, when transited by the Sun, marks the beginning of the spring season. This point is also the first degree of the sign Aries in the tropical zodiac, not to be confused with the constellation Aries of the sidereal zodiac. Casual observations of Mars crossing the vernal point over several decades, expressed in this paper as the Mars ingress into Aries, suggested a possible

correlation with rising temperatures. On March 12, 2013, the ingress of Mars into tropical Aries produced an interesting spike in temperatures in the northeastern region of North America and also in Central England. The two graphs below (Figures 1 and 2) constructed for this event are based on mean daily temperature data. Data for Figure 1 is from Harvard Forest in Central Massachusetts, located in an inland region with a climate representative of Central New England, though a similar temperature variation at this time was recorded in the mid Atlantic states of eastern New York, New Jersey and eastern Pennsylvania.(1) Figure two is a composite of temperatures from the Central England Temperature Series. In both cases a sharp temperature drop (12 degrees Celsius in Central Massachusetts and 7 degrees in Central England) occurred very close to the Mars-Aries ingress.(2) This interesting observation stimulated a more detailed investigation of correlations between this type of astronomical event and daily temperature weather records.

Figure 1

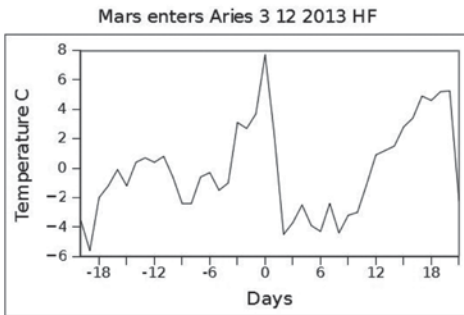
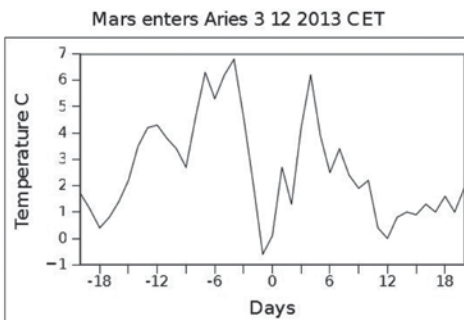


Figure 2



These graphs (Figures 1 and 2) show a 41-day interval with the day Mars crossed the vernal point designated as day 0. Negative numbers indicate the days before the event and positive numbers those afterwards. Temperature, the daily mean, is given in Celsius. The data for Figure 1 is from the Fisher Meteorological Station located in Harvard Forest, Petersham, Massachusetts, data for Figure 2 is a composite of temperatures from Central England from the Hadley Meteorological Center. (1,2)

Data Sources and Methods

A weather record of mean daily temperatures expressed in Celsius was obtained from the Fisher Meteorological Station located in Harvard Forest, Petersham, in Central Massachusetts (1), where long-term forest biology and environmental research is conducted. The daily weather records are in two parts: the 1964-2002 Shaler dataset and the more complete 2001 to present Fisher dataset. The Shaler record has some missing data which was replaced by figures from a mean generated from the entire dataset. The Fisher dataset is complete. Daily means for the length of the dataset were calculated from each weather record and then subtracted from the original data producing a daily record of the anomaly, or difference, from the mean. This display of the record in this format shows the temperature above or below the mean on any given day. In the following graphs (not including Figures 1 and 2), the zero line represents the mean, not 0 degrees Celsius. As the dates of Mars entering Aries are nearly always found in the first six months of the year, when temperatures are naturally rising, this method is necessary to compensate for expected seasonal temperature changes.

Between 1964 and 2013 the Mars ingress into Aries occurred 27 times; 23 occurred within the first six months of the year, January-June, and 4 in the second six months, July-December. Temperature data for these 27 dates, along with data 20 days before and after, were stacked and sums were calculated. A mean of this sum was then computed representing a composite of all Mars-Aries ingresses for the period of the dataset. This data was then graphed as shown below in Figure 3. This composite graph shows considerable noise (irregularity) which is smoothed exponentially into a signal that better approximates the overall trend in Figure 4. Exponential smoothing is a technique commonly used in economic data where, unlike a standard moving average which uses adjacent data, the algorithm takes into account all the data and consequently depicts the longer trend. What is apparent in Figure 4 is that from about a week before day 0 the trend line moves above the mean, as indicated by 0 on the y-axis, indicating a warming trend beginning about a week before the transit of Mars over the vernal point.

A control set of 27 points was created by generating random dates in the same years that Mars entered Aries.(3) The proportion of dates

Figure 3

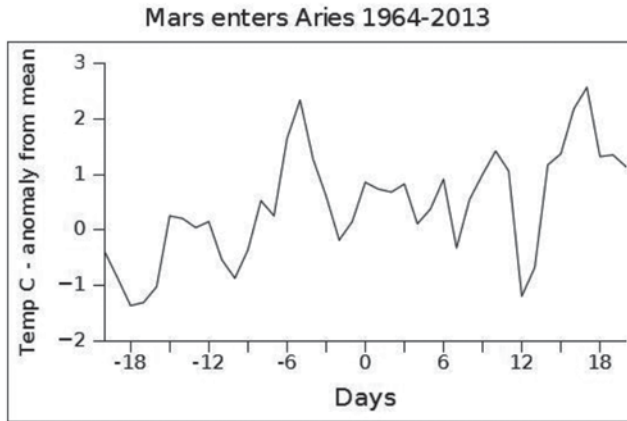


Figure 4

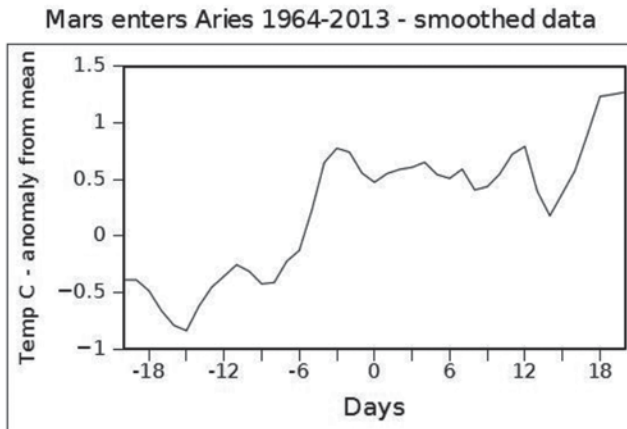


Figure 3 depicts the mean of all Mars-Aries ingresses from 1964-2013 expressed as the anomaly from the mean of the period which is designated as zero on the y-axis. Figure 4 depicts this same data smoothed exponentially. Data is from the Shaler and Fisher datasets, Harvard Forest, in Central Massachusetts.(1)

in the first half and second half of the year in the original sample was accounted for; that is 23 dates were randomly taken from months January-June and only 4 from July-December. The noise in the random data

shown in Figure 5 is smoothed in Figure 6 where it can be seen that the overall trend from day 0 to the day 20 is below the mean temperature.

The transit of Mars over the vernal point was next tested in two other datasets, both from Europe. Figure 7 is uses Central England Temperature data from 1964 to 2005 (23 events) and Figure 8 uses a blended

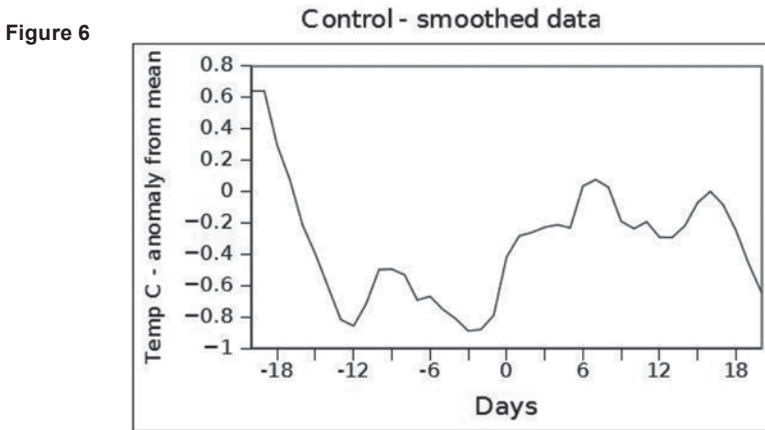
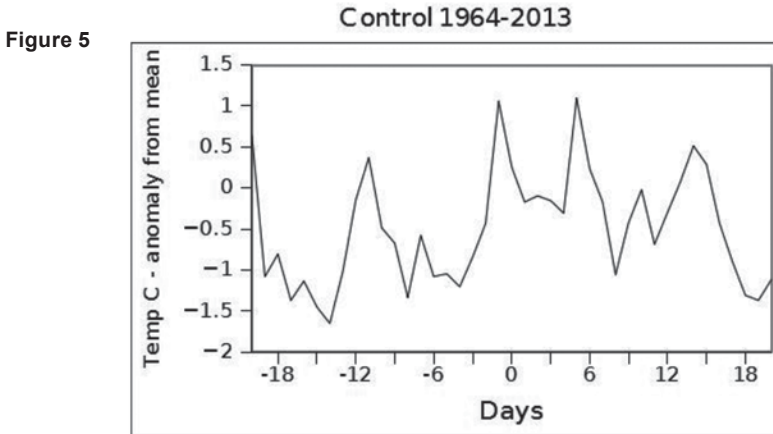


Figure 5 displays control data, randomly selected from the Shaler and Fisher datasets, for the same period as in Figure 3.(1) Figure 4 depicts this data smoothed exponentially.

time series, 1971-2000 (18 events) from Prague, Czech Republic in central Europe.(4) Neither dataset shows temperature rising at or following the ingress though some volatility appears very close to the day of ingress. In both cases the temperature following the ingress remained near or below the mean for the period.

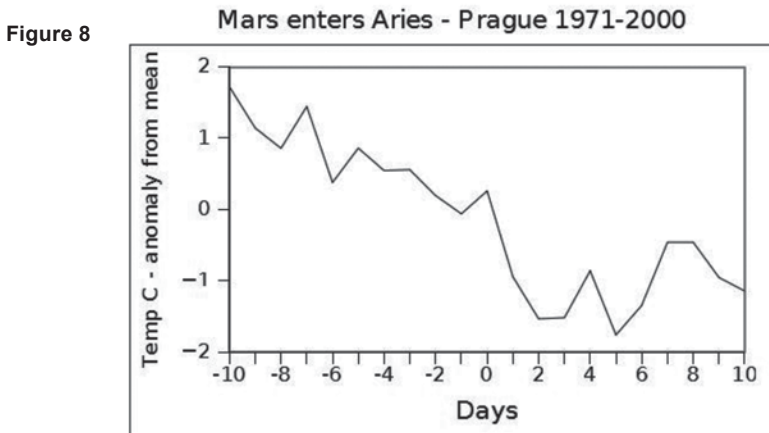
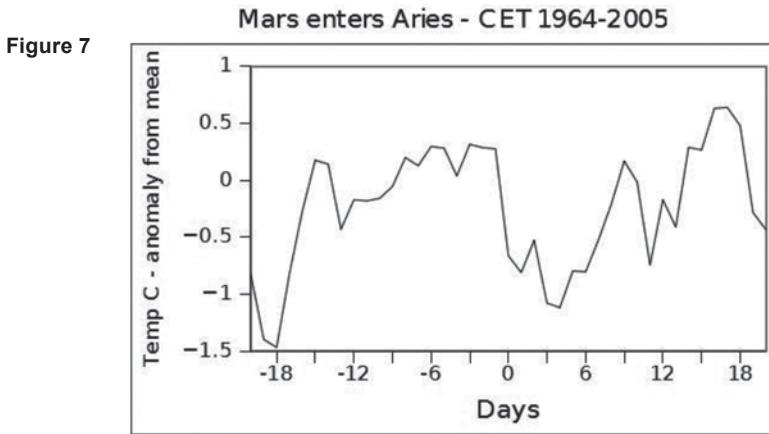


Figure 7 graphs Mars-Aries ingresses from 1964-2005 using the Central England Temperature data from the Hadley Meteorological Center. (2) Figure 8 graphs the data for the 30-year period 1971-2000, but presented within a 21-day range, from Prague, Czech Republic. (3)

Several of the Mars-Aries ingresses in the Central Massachusetts dataset show distinct volatility when the Moon is coincidentally near either of the vernal points, or in one case, at 90 degrees from the vernal points. These are the conjunctions, oppositions and squares between the Moon and Mars, equivalents to the quarters of the Sun-Moon synodic cycle. In two of these cases the proximity of Mars and the Sun, within 10 degrees, is noted, which occurs when the Mars ingress is close to the annual Sun's ingress into Aries on March 20-21. These are shown in the table below and graphed in Figure 9.

Date	Moon relative to Mars	Sun relative to Mars
3.29.1964	Moon opposite Mars	Sun conjunct Mars
5.21.1975	Moon opposite Mars	
3.16.1981		Sun conjunct Mars
5.5.1992	Moon square Mars	
4.22.2009	Moon conjunct Mars	
3.12.2013	Moon conjunct Mars	Sun conjunct Mars

The ingress of Mars into Libra, the point of the autumnal equinox, was also tested using the Central Massachusetts anomaly from the mean dataset. The resulting graph, Figure 10, shows a rise in temperature of about 1 degree C beginning two days before the ingress and ending abruptly six days later. The mean temperature during this period was mostly above the mean, but by only about 0.3 of a degree.

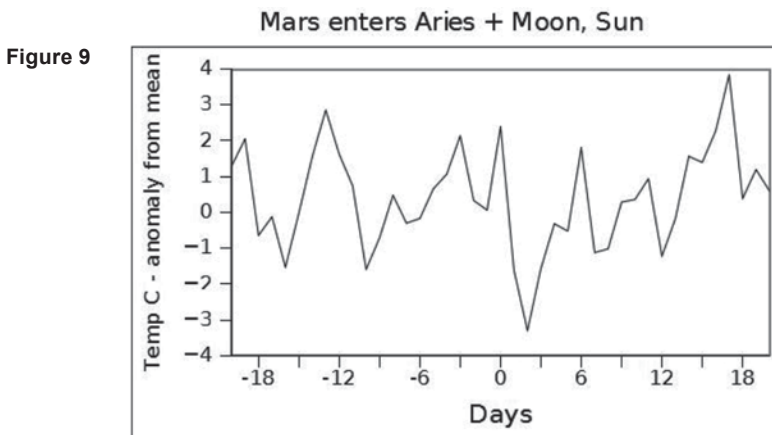


Figure 10

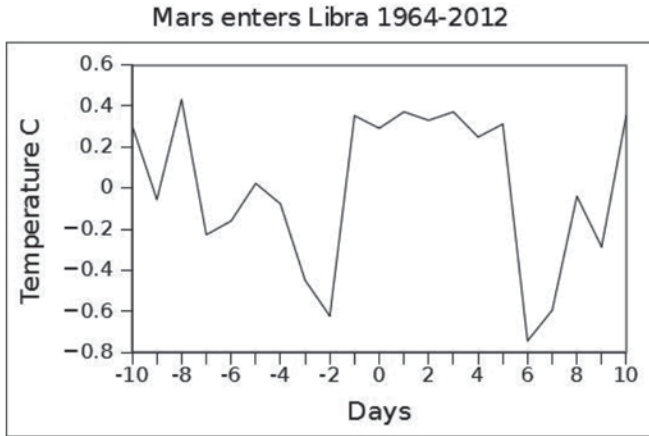


Figure 9 graphs the sum of the above six dates when the Mars-Aries ingress coincided with a 4th harmonic (conjunction, square, opposition) alignment with the Sun or Moon. Volatile conditions on the date of the ingress are shown by a 5 degree drop (over one standard deviation for the dataset) in mean temperature over two days. Figure 10 graphs mean temperatures for all ingresses of Mars into Libra between 1964 and 2012 over a period of 21 days. While the graph shows an interesting plateau of temperatures higher than the mean, beginning very close to the ingress and sustained for several days, the temperature variations are very small.

Discussion

From the data examined in this study no major conclusions can be drawn. It appears that the Mars ingress into Aries in the New England data may initiate a warming trend. In the case of the 2013 ingress the data registers a spike in temperature followed by a steep drop in the New England data and a spike followed by a drop and another spike in the Central England data. These suggest rapid changes in atmospheric conditions at those places, at that time. Such volatility cannot be the same for all parts of the world, however. The longer datasets from Central England and Europe do not show such extreme volatility and do not suggest decisive temperature changes at the Mars ingress in the average. The generally high level of noise in the data presents makes interpretation of the data difficult.

This study has not produced evidence of a robust correlation between the Mars-Aries ingress and temperature variations. It does, however, constitute an observation of a weak correlation with temperature volatility and a general warming trend that appears in the dataset for Central Massachusetts. If temperature volatility increases near the day of a Mars-Aries ingress or the Mars-Libra ingress, and more volatile conditions prevail if the Moon or Sun is simultaneously at or opposite the ingress (or at 90 degrees to it), then what kind of mechanism is producing this effect? The gravitational force from Mars is several orders of magnitude less than that of the Moon or Sun and would likely have little effect on Earth's atmosphere by itself. But it should be noted that the equinoxes, vernal and autumnal, are the only points on the ecliptic that lie at 90 degrees to the poles and it is remotely possible that a planet, Sun or Moon crossing these points could disrupt atmospheric circulation by a weak tidal force, causing a bulge at the equator and depressing the poles. Why such an effect would be registered in some regions but not in others, and not just at the spring equinox when warmer air masses are moving north, would probably need to be explained by land mass location and regional weather patterns. The results of a recent study of Sun-Saturn aspects and daily temperatures also suggests that amplified tidal forces acting on the Earth's atmosphere could be a possible explanation for the volatility displayed at the Mars ingress.⁽⁵⁾ It is apparent, however, that a deeper investigation, utilizing much longer daily records and in more regions, would need to be done in order to isolate what appear to be real planetary effects on weather. These effects are the same ones that centuries of annual astrological almanac astrologers were aware of and used to predict the weather months, and even years, in advance in their publications.

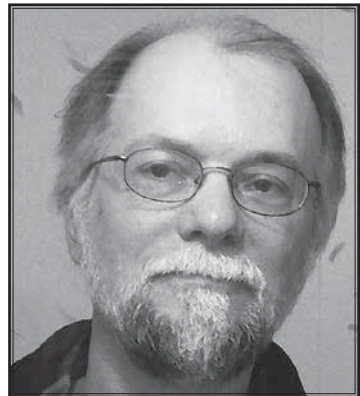
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Bruce Scofield, Ph.D., is an author and practitioner of astrology, speaks at conferences, and is a strong advocate for astrological education and certification. He has taught evolution at the University of Massachusetts and astrology for Kepler College. His interest in Mesoamerican astrology has a web presence at www.onereed.com.



Astrological Symbols and Keywords

Michael Munkasey



ABSTRACT

Keywords provide the foundation for astrological practice. This paper offers an approach to classifying and assigning astrological meanings to the everyday words of our language. Described here are a few set of rules for assigning and classifying the daily words of language into their astrological correlations. The rules for such may seem simple, but have taken many years of development.

Introduction

Learning meanings for astrological symbols is a never-ending pursuit and requires a good grasp of astrological keyword correlations. Keywords provide the everyday language words and/or word-ideas astrologers use when interpreting the symbols and patterns shown in an astrological chart. A good knowledge of keywords is crucial for astro-

logical work. Keywords provide everyday common language words to explain astrological symbolism.

Keywords for the Sun include: creative, distinguished, and motivating. Keywords for the Moon include: feminine, instinctive, and romantic. Keywords for the sign Taurus include: reliable, steady, and unhurried. Keywords for the Sixth House include: employees, assistance, food preparation, etc. Other planets, signs, etc. have their own keyword associations. Using keywords like these astrologers can provide meaning to astrological symbols or areas within a chart.

Learning everyday common language word (i.e., keyword) to astrological symbol associations is an ongoing task necessary for all levels of astrological expertise, from beginner to professional. Keyword associations are aided by reference works that provide useful symbol and word correlations. Having access to a good collection of keyword reference works is crucial for those at any stage of astrological development or study. Keywords serve to help translate chart symbols and/or patterns into a language useful to readers and clients. Keywords help bring meaning to chart patterns and planet placements.

If one writes or says “keywords” one also really mean “key ideas”, as some word phrases contain more than just one word. Examples of multi-word “keywords” include: smart-mouthed; enraged over; mindful of; ferret-out; etc. These are still keywords, or, more correctly, key ideas. Wherever one says or writes “keywords” you can substitute the phrase “key ideas”.

Keywords do not provide a chart or symbol interpretation. Just as the keys on a piano do not make a song without a pianist playing them, or colors an artist’s palette do not make a picture without an artist painting with them, keywords do not make a chart interpretation without an astrologer applying skill. But like the keys on a piano, or the colors an artist uses, keywords are the basic tools needed to effect a chart or symbol interpretation. Keywords as a tool are used by skilled astrologers to bring meaning to the chart diagram.

Astrological symbols are ancient, yet filled with profound substance. They convey a deep and meaningful heritage. Through habit and daily practice astrologers use a variety of keywords to define and explain astrological intentions. There is a correlation between everyday spoken and written language and the rules of keyword correlation and usage.

RESOURCES

Books and articles have been written on astrological symbol meanings (i.e., keywords), each showing the author's particular opinions. These works offer a beginning for obtaining astrological symbol to language word assignments. There are many such reference works available, both in and out of print. Some are short, some are longer works. Many astrological texts offer keyword associations even though they are not specifically focused on keywords.

I learned keyword associations through hard work. As a student astrologer in the 1970s I read through hundreds of astrological books and articles and extracted keywords from these. Also found were references to herbs, flowers, etc., which I did not retain as I was looking for psychological correlations. I read through all the astrological books or articles I could then readily locate and from those amassed about 1800 key-ideas suitable for modern usage.

A collection of 1800 terms was not a very large vocabulary to work with. I estimated that a high school graduate is exposed to about 75,000 key ideas, and a four-year college graduate to about 110,000 key ideas. Thus for a profession with a history of two plus thousand years to have a vocabulary of only 1800 word-ideas is embarrassing — and serves to trivialize the profession.

What made this even worse was that some of these word-ideas were archaic and medieval expressions, and they had fallen out of general usage by the 20th century. Thus, there were not even 1800 separate modern word ideas available for the astrological user. I felt something positive needed to be done to develop this small set of vocabulary into an expanded and modern astrological paradigm. Within these 1800 word-ideas, there was a rich diversity of symbolism — even if there was not a large modern vocabulary. But their core ideas were and remained unchanged through the centuries. Words for the Sun remained for the Sun. Words for the Moon remained for the Moon. Even better, the various word associations remained consistent across cultures and schools of thought. Those 1800 word ideas were a start and a good starting place. Earlier references were somewhat diminished by not being able to include keyword associations for the planets Uranus, Neptune and Pluto — which did not exist for astrological consideration before about 1780.

Keywords for the Trans-Neptunian planets of the Uranian School

had been developed starting about 1915.³ The range of keyword association for those hypothetical bodies is extensive and well proven through decades of application. Keywords for the eight Uranian planets meld well with the traditional astrological ten planets — they don't overlap in any significant way and they complement with each other. The same can be said for keyword associations for bodies like the Ivy Goldstein-Jacobsen "Lilith".

Starting about the mid-1970s, the introduction of keywords for the Asteroids and Chiron, and then in the 2000s with discovery of thousands of potential astrological bodies beyond Pluto's orbit, a comprehensive structure for recognizing ruler-ships and assigning keywords became even more important. Before about 1980 keywords were presented, but there was no rule structure available for correlating and assigning keywords. Keywords were offered as a fixed set, and often keywords which belonged to houses were assigned to signs.

A popular keyword book from the 1960s is Rex Bills' "The Rulership Book" which has about 3,000 keyword references; many are flowers, trees, or herbs.² Other efforts, like those from Dr. Lee Lehman, who did extensive and thorough work on medieval keyword associations, can be found in her works. My book "The Astrological Thesaurus, House Keywords, Book One"¹ from 1991 has over 14,000 keyword references. It can help you translate astrological house meanings into popular words and ideas. Rex Bill's book covers planets, signs, aspects and house associations. My book only focuses on houses, because I had exposure to many Horary Astrologers and their ideas, and their need for many good and consistent keyword associations that reflected trends in modern daily life. Horary Astrology needs to know about the "things" of life; or occupations, colors, family inter-relationships, etc.

Houses, the topic of my book, lend important shades of meaning to astrological workings. My houses book also provided an introduction to keyword theory, and a basis for adjudging and selecting a system of house division. Further, the trigonometric formulae for various house systems were provided in an Appendix.¹

My book helps tie many common English words and expressions to the astrological houses. I have also divided house keywords into many categories: Things, Occupations, Psychological Qualities, Family Relationships, etc. These divisions are important for helping astrologers in their work with Horary and Electional Astrology.

KEYWORDS AND GRAMMAR

My houses book offers a detailed explanation of how keywords may work, and how to consistently and correctly classify new keywords. The opening chapters are important to read to understand my view of modern keyword theory and to work with keywords. Introduced in those chapters are unique ideas for assigning astrological keywords using modern language grammar.

One important difference between Rex Bills' book and my book is that the former allowed multiple astrological correlations for any one keyword, whereas in the latter only one assignment is allowed to a keyword. In reading the assignments in the Bills' book it seemed as if every idea that came from various persons was included without regard to consistent historical evidence of a core thrust. These multiple assignments frustrated me. Was this one keyword in focus for Mars, Taurus, 4th house or an opposition aspect? With a good collection of keywords from many sources I undertook the difficult task to update keyword theory to a modern level by doing research to locate and identify traditional_core keyword assignments. The best one-on-one associations were sought.

None of the assignments and references was one-for-one copied from earlier works without careful consideration of implications. Earlier associations were examined and recognized, and used as possible. Any new associations created were derived from personal efforts and research. This, of course, included extensive collaboration with other astrologers to ensure that a variety of opinions were examined. In the end the one association for a keyword or key-idea remained.

WORKING WITH KEYWORDS

The process of how to assign keyword associations to astrological symbols is important to understand. One way to assign new or previously unlisted keywords about an astrological symbol is to use techniques developed from psychological inquiry, dream analysis, mythology, etc. Example: the Mars glyph showing a circle and a stylized cross shown as an arrow represents. Another way is to look at existing listings of keywords for important clues and seek opinions from professionals.

A definition of "astrological symbol" means any glyph or figure,

including letter abbreviations, used to represent the five fundamental astrological tools. These tools are: planets, signs, houses, aspects and the personal sensitive points (PSPs). These five sets of astrological tools are related, they have affinities and correlations amongst each other, but not equivalences. For instance, Mars is not equal to Aries, but there are affinities between Mars and Aries such that if you know of these affinities, then correlations about the other tool can be drawn.

Traditional rulerships exist for showing affinities between planets and signs. The same is true with houses. Ties with planets or signs to the personal sensitive points (PSPs) are rare to locate. Of course, it is helpful to have a few basic rules about working of affinities amongst each other. Then a new approach was formulated to gather additional keyword information for each astrological symbol.

KEYWORD METHODS

Surprisingly there are only two short “rules” needed to assign keyword correlations. First, astrology acts as a language and provides a means to translate from symbol to the language of the client; the next, the astrological language has a correlation with grammar and parts of speech we use in our everyday interactions. Thus, there should be one-to-one correlation between parts of speech like nouns, adjectives, verbs, and the astrological tools (planets, signs and houses).

There is sufficient astrological tradition to provide an adequate basis for classifying astrology as a language correlating to English (or French, Russian, etc.) words and ideas. Thus the approach was the keyword definition as though astrology is a language. That is similar to English, nouns, adjectives, verbs, etc., and established rules of grammar. In astrology we have planets, signs, houses, etc., to correlate to nouns, adjectives, verbs, etc. The astrological equivalent of grammar is “planets in signs.”

Follow-on from this is that an astrologer is someone who trains himself or herself to translate from the symbol and patterns of an astrological chart to the everyday language of the client using appropriate keywords. This is a skill which can be taught. One observation is that it takes at least few years of study and application to really understand the correlations between astrological symbols and keywords. Knowing good

keyword associations is not the same as making meaningful astrological delineations. Keywords are just one tool needed for delineation work. Another tool is learned insight into the human process. Often student astrologers will assume that with the learning of some basic keyword associations they have achieved interpretation or delineation mastery. It takes substantial efforts and time to study and understand keyword correlations and astrological symbol interpretation using keywords. It can take even more efforts and time to understand people in their infinite complexities and varieties.

Just reading through or memorizing a list of keywords is not sufficiently educational. The word-ideas have to be experienced through life experiences and over a multi-year period of practice in order to ingrain them into your psyche. The next corollary is that each person needs to develop their own Mercury-based chart attributes as it is ultimately this resource within each person's psyche that makes the person a successful translator of symbol into client language. It is not prudent to think that a word like "test" has to be associated with "X". The assignment of everyday language words to astrological correlations is more complex than pulling an idea off the top of one's head.

KEYWORD RULES

In summary the astrological Planets can act as nouns, adjectives, or adverbs; astrological Signs can act as nouns and adjectives; the astrological Houses are the noun "things" — as opposed to abstract qualities, which are left to the planets and signs; and Aspects are assigned the verbs. The PSPs link to the parts of grammar in the same way the Planets do. With these few ground rules in place then a dictionary or thesaurus can be opened and each word therein can be assigned an astrological counterpart based on its definitions. Many words, of course, will have multiple entries and astrological correlations. For example: demonstration (exhibition) is quite different from demonstration (gesture); one implying a Leo connotation, and the other a Mercury connotation. This requires practice and practice to a level beyond what someone recently quipped: "I didn't know that New Yorker's could wave with more than one finger."

One very surprising outcome from this multi-year effort is a quite different thrust in astrology to noun-word versus the adjective-word ideas. That is, for astrological definition it is important to distinguish between the parts of speech. It is necessary to separate out, say, Jupiter-nouns from Jupiter-adjectives; Taurus-nouns from Taurus-adjectives; etc. There are words that may look similar in word lists, but the thrust of their direction is different, and their role in delineation is different too.

CLASSIFYING KEYWORDS

Any person classifying keywords has to be very aware of the existing astrological correlations, such as those which are firmly imbedded in astrological tradition. For example, Mars represents action, energy; Jupiter represents expansion, opinion, etc. To state that Jupiter associates with aggression is moving away from basic astrological tradition. It is important to understand and keep this tradition intact.

Sometimes an astrologer will ask: "What rules xx?" That word may exist in keyword references, and a diligent person should look there. To add new or unknown keywords you can open a dictionary or thesaurus and find appropriate new words not already in available keyword lists.

First, note the part of speech for the word. If it is a verb, then it is assigned to an aspect. If it is a noun, then determine if it is a noun object or a noun quality. If it is a noun object, then it is assigned to a house; if it is a noun quality, then it goes either to a planet, PSP or a sign. If it is an adjective it goes to either a planet or a sign. If it is an adverb it goes to a planet. These procedural rules simplify making keyword associations. The other parts of speech present in language: pronouns, prepositions, and interjections have no direct correlation as parts of speech to the astrological symbols. Nor are they needed within astrology. Of course, they are useful, but not for keyword assignments.

A single "word" can have several diverse definitions. When working with a word enclose a thrust of the word definition in parenthesis along with the word. For example, using the seemingly innocuous word 'blanket':

Key-idea	Ruler	Part of speech
blanket (cover with paper)	005	Verb
blanket (inclusive)	sag	Adjective
blanket (umbrella)	sag	Adjective
blanket (wrap)	moo	Noun
blanket (warming cover)	Th 06	House
blanketly (all-inclusively)	jup	Adverb
wet blanket	sat	Noun
my blanket (my blankie)	eqa	Noun
blanket (general)	moo	Adjective

[Note: 005 refers to the 5th harmonic, or Quintile aspect, and it has a Mercury correlation; sag is Sagittarius; moo is the Moon; jup is Jupiter; Th is a thing, and 06 is the 6th house; eqa is the Equatorial Ascendant.]

Examples of statements using these thrusts are:

- We can blanket the neighborhood with this poster.
- Your blanket statement that all dogs are good ...
- This drug is a blanket answer for many types of diseases.
- You can blanket yourself with a newspaper to keep warm.
- A good blanket on the bed in cooler weather ...
- To blanketly accuse all unschooled persons ...
- The Chairman’s comments hung like a wet blanket over the crowd.
- A child carries his/her blanket (blankie) for reassurance.
- Your blanket refusal to look into this widely held position ...

Although the word ‘blanket’ was arbitrarily chosen as an example it is adequate enough to explain in assigning rulership or affinities to key ideas. The idea of covering or protection is traditional with the Moon; and the idea of household linen is traditional with the 6th House. Jupiter is traditional for “covering” large areas. The clues for assigning rulership affinities exist within astrological tradition. It provides an astrological vocabulary resource of about 75,000 such word. However, distribution of this large amount of information in a usable form is the next challenge.

One can try word associations. It is a lot of work and it is tedious. With that in mind this work was attempted to provide as easy guide.

CATEGORIES FROM MANY WORDS– A PRACTICE EXAMPLE

How can one gather and then assign keywords? Gathering keywords is relatively easy. One encounters a word, and then puts it into its assumed “bucket” (i.e., a place to temporarily hold such unclassified words). For example: “blanket (inclusive)” is an adjective, and that sounds like a Sagittarius thing, so let’s temporarily place “blanket” into the Sag - Adj bucket for now. Many thousands of words later one finds that there can be hundreds and hundreds of words in the Sag Adjective bucket category. That is when the real work begins.

It takes about four to six weeks of intensive daily work to examine the hundreds of words in, for instance, Sag Adjective and ask the question for each word: “Does this word belong in this category or in some other category?” Usually some words are sent to other places, and some ideas missing from the bucket are added. Further those hundreds of words will divide into a fixed set of from ten or so to maybe thirty categories or more. It is those topic categories, all astrological teachers and writers seek to reference and learn.

Here is a list of unexamined Gemini Noun words - words from the Gemini Noun “bucket”. These are the results of going through texts and dictionaries and saying “put that one into the Gemini - Noun bucket”. Now that we have hundreds of supposedly Gemini Nouns, let us examine each one in turn and ask, does this word belong here with Gemini, or does it belong elsewhere?

Here are some Gemini Noun words taken from the unfiltered Gemini bucket:

calculation (deliberation)
call (clamor)
call (shout)
call (telephone)
call (visit)
cant (jargon)
caricature (inferior imitation)
case (instance)
chameleon (a changeable person)

change (improvement)
change (variation)
characterization (description)
characterization (replica)
chatter (chitchat)
chatter (talk)
childhood
chitchat (talk)
citation (extract)
citation (mention)
clamor (shout)
class (course)
clearness (unambiguity)
clip (clipping)
closeness (nearness)
cogitation (thinking)
colloquy
comment (remark)
commentary (explanation)
communication (announcement)
communication (conversation)
communication (exchanging)
communication (impartation)
communication (information)
communication (intercourse)
communication (message)
communicator (speaker)
companion (mate)
company (guests)

The categories in which the hundreds of Gemini Nouns or Adjectives divide into are shown below. Each line represents one idea, although there are several related words on each line to help define the thrust of the intention of that line. These lines of thought are sought as the essence of the Gemini Noun or Adjective basic idea thrust. These lines of definition provide the results that astrological writers and teachers seek. It is important to note that it is not so much the hundreds of Gemini-associated words themselves (as above) are important, but the ideas put forward from within their essence. If needed, add your own words into

these ideas and then one can personalize this approach. If one wants to know and understand the sign of Gemini, then one needs to understand the Gemini Noun and the Gemini Adjective categories.

The category lines below are offered in no particular order. Each line is just as important as any other line. Remember, each line represents one idea thrust, showing their difference in word thrusts divide into nouns and adjectives yet retain their sign affiliations. Both the Gemini-Adjective Themes and the Gemini-Noun Themes are shown below.

Gemini (*Adjective*) Themes

Eloquent: Talkative: Articulate: Vocal:
Explains: Descriptive: Describes: Illustrated:
Curious: Inquisitive: Asking: Questioning:
Intelligent: Smart: Literate:
Familiar with: Informed about: Wise to:
Thinking: Reasoning: Contemplative:
Studious: Teachable: Educational: Scholarly:
Learnable: Verifiable: Determinable: Knowable:
Discussing: Talking about: Revealing:
Sees: Notes: Records: Alert to: Observant:
Distinct: Explicit: Understandable: Legible:
Similar: Alike: Comparable: Resembling: Related:
Imitative: Mimicking: Gesturing: Motioning:
Adjacent: Touching: Handy: Local: Nearby:
Dual: Twin: Paired:
Flexible: Pliable: Bendable:

Gemini (*Noun*) Themes

Information: Communication: Exchange: Announcement:
Conversation: Discussion: Statement: Mention:
Resemblance: Similarity: Repetition: Duplication: Variation:
Clarification: Explanation: Interpretation: Description:
Cleverness: Ingenuity: Expertness: Skillfulness: Facility:
Nimbleness: Adaptability: Dexterity: Manipulation:
Language: Eloquence: Enunciation: Dialog:
Reasoning: Cogitation: Wondering: Logic:
Curiosity: Inquisitiveness: Observance: Questioning:

Education: Learning: Studying: Schooling:
Handiness: Convenience:
Duality: Twoness: Pairing
Youth: Juvenile:

As you can see these noun and adjective Theme Lists are quite different, but they do represent astrological Gemini well. Dividing word lists into their parts is an important part of keyword definition and assignment. But then when considering hundreds and hundreds of American English words, these are the essence categories from that body of words that define Gemini through everyday language usage. These thrusts are a good place to start to understand the astrological Gemini. Similar theme accounts are available for other astrological signs, planets and aspects.

In developing Theme lists it is important to try to avoid overlap of one category (e.g., Gemini) with another (e.g., Mercury, Virgo). Gemini has its correlations, and Mercury and Virgo have theirs, and they remain quite distinct.

CONCLUSIONS AND FINAL THOUGHTS

The following is a list of all categories / thrusts derived, by part of speech, by astrological tool. Want “Sun - Adjective”, or “Pluto - Noun”, or “Node - Noun”, or “Opposition - Verb”? These lists, similar to the above are pretty much available now.

One useful tool comes out from making up lists of about fifty words for each category (e.g., Sun - Noun), and then printing these in columns, three columns per page, on a sheet of paper. Then take that paper and cut each column into a two-inch wide strip. Doing this you would see for Mercury Adjectives:

adaptable
adjustable
agile
airy
androgynous
angled
asexual
bartering

branched
breathing
carrying
changeable
cheating
choppy
complex
computable
crafty
crooked
deft
dexterous
elaborate
evading
etc.

The strips can then be laid next to each other, like Mercury Adjectives with Libra Nouns, to show how these inherent word ideas interact with each other for Mercury in Libra. What you will see are not definitions but hints, thrusts, which become a means for your mind to grasp the potential of a wide range of energies possible of planet, sign, etc.

Making lesson plans may be one task, and planning lessons may be another, but basic classroom tools like this are certainly one important part to the overall teaching equation.

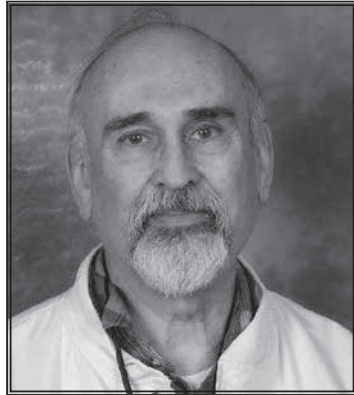
The overlaps among keywords assigned to signs, houses and/or planets are the result of this exercise. , For one example: the word “newcomer” can just as easily fit in as an Aries Noun as it can for a First House association. The implication here is that in the Aries Noun sense the word newcomer represents one person, where as in the House sense newcomer is referencing a body of people. One could endlessly argue over where such word assignments belong.

Again, it is important to recognize it’s a starting point. If in your opinion and experience you feel that other words should be added, or some of the words recommended here be eliminated or assigned elsewhere, then create your own keyword and key idea listings.

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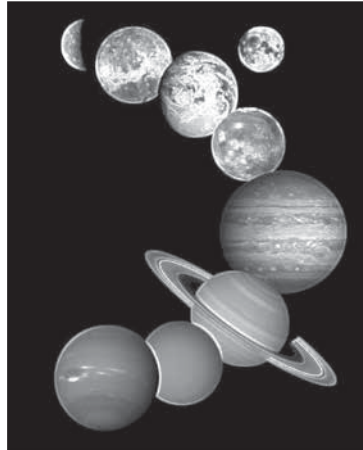
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A Theory of Continuous Planetary Interaction

Tony Waterfall



ABSTRACT

The astrological planets; Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto and Earth each have a surrounding interactive sphere. These spheres have magnetic poles. At the magnetic poles there can be auroral ovals. One auroral oval sits above the attracting magnetically negative pole and the other above the discharging magnetically positive pole. The discharge travels through open space. It follows the path of least resistance and greatest attraction to cover vast distances while creating continuous waves in the yielding dark and cold medium of interplanetary space. The discharge energy from a planet is drawn in by Earth's magnetic field and enters Earth's environmental sphere. Some energy is visible light. Some becomes quarks and hadrons and neutrons and protons, and hydrogen atoms; a universal building block that interacts with the nitrogen rich atoms of Earth's atmospheric environ-

ment. Electron beams from interplanetary space hit Earth along a ring shaped oval where cathode rays interact with high speed electrons. This creates an electrical discharge powered by the solar wind that interacts with the magnetosphere. Solar wind and the effects of solar discharges upon the solar wind create a pressurizing mechanism for the continuous auroral flow at the negative (incoming) pole that will contain travelling matter and unique signatures from all of the planets in our solar system. On Earth, the planetary discharges arrive channelled by the magnetic field and are drawn through the negative auroral oval and through electromagnetic commonality and through biophysical processes are acted upon by human beings.

Background

Though mainstream science recognises the impact of the Sun and the Moon on Earth's biosphere, it is not widely accepted that the planets have any influence on terrestrial events and ultimately human affairs. This is arguably the main reason why astrology remains on the fringe of science.

Professor Syun-Ichi Akasofu says, "I am convinced that new thinking is needed to solve long-standing unsolved problems. The new generation of scientists are encouraged to challenge the present paradigms and advance our understanding of electromagnetic phenomena around the Earth, in interplanetary space, and the heliosphere. In this age of infinite specialization, the importance of synthesis^{1a} should be emphasized more now than ever. My dream of a grand synthesis is to bring solar physics, interplanetary physics, magnetospheric physics, and upper atmosphere physics together in terms of space weather research."¹

The answer to planetary involvement may already be available. NASA and others have collected and continue to collect large amounts of data.² Perhaps the data can get organized into a clear statement of fact that leaves no doubt that planetary influence is alive and well.³

The model that I am proposing can be summed up in twelve statements.

Each planet is surrounded by an interactive sphere.⁴

1. The sphere is surrounded by a magnetosphere, some faint, some strong.⁵
2. Each sphere has two auroral ovals, one at each magnetic pole.⁶
3. The magnetic polarity of the poles under the ovals will change with time as the poles flip magnetic polarity.⁷
4. One auroral oval sits above a magnetically positive pole and the other above the magnetically negative pole.⁸
5. There is a flow through the ovals with its direction dictated by the magnetic polarity of the pole below.^{9,9a}
6. The flow consists of cosmic rays, electrons, protons and more particles yet to be identified.¹⁰
7. The flow at the oval is constant like the flow of water from a tap that is never turned off.¹¹
8. The size and flows through the auroral oval differ from planet to planet. On Earth where considerable study has taken place the auroral ovals are found to be of considerable size. The auroral oval above Earth's negative magnetic North Pole is 6,400 kilometers in diameter while the auroral oval above Earth's positive South Pole is 6,000 kilometers in diameter.¹²
9. The average rate of magnetic flow through Earth's incoming auroral curtain that forms the outer edge of the auroral oval is 1,000,000 megawatts.¹³
10. If a cross-section of the entrance flow at Earth's incoming auroral oval was monitored it should show a composition made up of contributions from each of the astrological planets.¹⁴
11. At any given moment a signature from each of the astrological planets is entering Earth's atmosphere and the environment of Earth's biosphere.¹⁵

I have tried to lay out the workings for A Theory of Continuous Planetary Interaction in four parts (1) Planetary Sphere (2) Auroral Oval (3) Space Transference (4) Planetary Dispersion.

I do not claim that A Theory of Continuous Planetary Influence is the answer to how astrology works, but it is my hope that this theory will show at least one mechanism for continuous planetary interaction with life on Earth.

Planetary Sphere

The concept of spheres around planets has been postulated since Ptolemy and Copernicus and goes back to at least 1250–1300 when the Latin *sphaera* for globe and the Greek *sphaira* for ball were in use.¹⁶ Spheres are quite common on Earth where we have a Magnetosphere, Atmosphere, Exosphere, Ionosphere, Thermosphere, Mesosphere, Stratosphere, Troposphere, Heterosphere, Homosphere, Biosphere, Anthroposphere, Noosphere, Hydrosphere, Cryosphere, Pedosphere, Geosphere, Lithosphere, Asthenosphere, Mesosphere, Mantlesphere, and a Coresphere.

Dr. Anne Hofmeister, Research Professor, Department of Earth and Planetary Sciences, says when talking about her recent research paper, “Existing models for planetary accretion assume that the planets form from the dusty 2-D disk, but they don’t conserve angular momentum. It seemed obvious to me to start with a 3-D cloud of gas, and conserve angular momentum. The key equations in the paper deal with converting gravitational potential to rotational energy, coupled with conservation of angular momentum...In all cases, the process is gravitational accretion of these cold, 3-D clouds making things contract and spin out, and that’s where the energy comes from. It’s all happening in very cold temperatures, in 3-D instead of 2-D.”¹⁷

The nebula hypothesis¹⁸ of star formation accepts that a star is formed by the gravitational collapse of a pocket of matter within a giant molecular cloud.

It seems quite possible to place a sphere-like cloud around a planet and by adding an auroral oval above each magnetic pole, and to infer two holes within the sphere that through a magnetic process facilitate movement of mass from outside the sphere to inside the sphere and then from inside the sphere back to outside the sphere. Mass arises through the interaction between two particles. Protons and electrons join to form hydrogen atoms setting light free. Interaction happens at the auroral oval.

The Sciences accept¹⁹ that most of the planets in our solar system have auroral ovals but based on today's current data it is said that Mars, Venus and Earth's Moon have no auroral ovals. It is possible that the Sciences will discover active auroral ovals on Mars, Venus and the Moon in the very near future.

Auroral Oval

Many people are aware of the Aurora Borealis also known as the Northern Lights.²⁰ The dynamic visual light display is the outer visual edge of the inflowing auroral oval cascading 100 kilometers into the atmosphere of Earth as colored chemical rain traveling through an electrical field that is motivated by an electrical current. The auroral oval acts as a generator producing up to 10,000,000 megawatts of electrical power while a 1,000,000 ampere current flows through the auroral curtain.²¹

Dr.Syun-Ichi Akasofu says, "The Aurora can then be understood as the only visible manifestation of the electrical discharge processes that are powered by the dynamo. Thus auroral activity and geomagnetic disturbances are only different manifestations of an enhanced dynamo power."²²

Light is emitted when charged particles trapped in the magnetic field interact with atoms of atmospheric gases. The colour depends on which atoms in the Earth's atmosphere are emitting the light. Plasmas and electrons traveling the field lines spiral in and hit the atmosphere, generating light whose colors depend on which chemicals – oxygen (red and green light), nitrogen (blue light), and others - are excited in this process. When auroral light displays occur, about two thirds of the time, they cause the Earth's atmosphere to expand slightly.²³

There are two auroral ovals above planet Earth, and this theory hypothesises that there are two auroral ovals above each of the *Astrological Planets: Sun, Mercury, Earth, Jupiter, Saturn, Uranus, Neptune and Pluto*. Auroral ovals may be found on the Moon, Venus and Mars no matter how faint or distorted.

On Earth at this moment in our history the north auroral oval sits above the magnetically negative north pole that induces material through the auroral oval towards the magnetic pole and into the atmosphere of Earth.

Earth's southern auroral oval sits above a positively charged pole discharging material out to re-circulate²⁴ and to travel beyond Earth linking up with the space currents. I propose that this re-circulation and interplanetary space interaction happens on all planets.

Each planet through one of its auroral ovals will disburse or receive material. The flow rates and contents will differ but each planet will have a unique signature.

Sun: Coronal holes are regions of low-density plasma on the Sun that have magnetic fields that open freely into interplanetary space. During times of low solar activity, coronal holes cover the north and south polar caps of the Sun. During more active periods, coronal holes can exist at all solar latitudes, but they may only persist for several solar rotations before evolving into a different magnetic configuration. Ionized atoms and electrons flow along the open magnetic fields in coronal holes to form the high-speed component of the Solar Wind.^{24a}

Mercury: Dr's. C. T. Russell and J. G. Luhmann say, "Mercury is of great importance to those studying planetary magnetic dynamos and to those studying planetary magnetospheres. Its importance to the magnetic dynamo problem stems from its being the smallest and most slowly rotating planet with a presently active magnetic dynamo. Its importance to the physics of planetary magnetospheres stems from its lack of a dynamically important atmosphere or ionosphere. Currents generated by the solar wind interaction, which usually close in the ionosphere, cannot close in the same way at Mercury as they do in other planetary magnetospheres. It is thought therefore that the Mercury magnetosphere may be more strongly coupled to the solar wind than is the case for other planetary magnetospheres."²⁵

Venus: Venus' atmosphere is made mainly of carbon dioxide with thick clouds made of sulphuric acid and other atmospheric gases. It has almost no magnetic field but a magnetosphere has been detected. Venus is thought to have an induced magnetosphere where the solar wind interacts directly with the planetary ionosphere.²⁶

Moon: The air on Earth's Moon is a mix of argon-40, which seeps out of the ground due to radioactive decay in the lunar interior while elements such as helium, sodium, and potassium are blown off the lunar surface by solar wind. I propose that this discharge will leave the lunar sphere via an auroral oval that sits above the positive pole.

Based on data from India's Chandrayaan-1 Luna Probe, a mini-

*magnetosphere had been observed on the Moon and other magnetospheres might be found on the Moon perhaps around impact craters.*²⁷

Martin Wieser, a senior scientist at the Swedish Institute of Space Physics says, “The discovery of the moon’s first mini magnetosphere opens the door for finding magnetospheres on smaller bodies, even asteroids.”²⁸

Mars: Mars produces a weak magnetic field that partly deflects the solar wind leaving the Sciences puzzled as they think that Mars once had a thick atmosphere, but they also think it may have been blown away by the solar wind. NASA is sending a new orbiter to Mars called MAVEN— for Mars Atmosphere And Volatile Evolution, that should reach Mars around September 2014. I propose that if Mars once had a thick atmosphere then it is likely that it was magnetized and had a magnetosphere and thus auroral ovals. Bruce Jakosky, Principal Investigator for MAVEN says, “MAVEN will determine if loss to space was the most important player in driving Martian climate change.”²⁹

I propose that if Mars once had a magnetosphere, it is possible that it has not disappeared but it is faint or has been distorted to the point that it is currently unrecognizable.

A University of California at Berkeley, Press Release says, “Though Mars lacks a global protective magnetic shield like that of the Earth, strong localized magnetic fields imbedded in the crust appear to be a significant barrier to erosion of the Mars atmosphere by the solar wind.”³⁰

Dr. Percy Seymour, in his book *Dark Matters: Unifying Matter, Dark Matter, Dark Energy and the Universal Grid*, says about data from Mars Global Surveyor; “The new data show that where the localized surface magnetic fields are strong, the ionosphere reaches to a higher altitude, indicating that the solar wind is being kept at bay.”³¹

If Dr. Anne Hofmeister and the nebula hypothesis is right, then Mars, Venus and Earth’s Moon can have a cloud with a polarized magnetosphere and auroral ovals. I propose that these planets might have an electromagnetic disbursement and capture mechanism and that is through auroral ovals.

Jupiter: Jupiter is a gas giant that rotates very rapidly generating strong magnetic fields in its interior that are surrounded by a giant magnetosphere that contains moons like Ganymede that possess its own magnetic field creating a mini-magnetosphere within Jupiter’s much larger magnetosphere.³²

On Jupiter the solar wind plays a lesser role than on Earth. Electrified sulphur atoms spewed from active volcanoes on Jupiter's moon Io, follow Jupiter's magnetic field through its auroral oval until they crash into Jupiter's upper atmosphere, setting it aglow with color.

Rapid spinning inside Jupiter's ionosphere and magnetic field causes a rotational motion that dominates the magnetosphere. Millions of amperes of electricity flow between the magnetosphere and ionosphere creating currents powerful enough to generate an auroral oval around each pole.

Saturn: Saturn's auroral oval is similar to that of Earth with auroral crowns that are created by fluctuations in the solar wind.³³ Saturn's upper atmosphere is dominated by hydrogen gas causing it to glow deep ruby red when excited by incoming electrons, unlike the more common green auroras produced by oxygen molecules here on Earth. The inflowing auroral oval at Saturn's negative pole takes in large quantities of sulfur emitted from its moon Titan.

Saturn like Jupiter is a gas giant that rotates very rapidly generating strong magnetic fields in its interior that are surrounded by a giant magnetosphere that contain moons. Saturn's moon Enceladus has an auroral oval.

Uranus: Uranus is mostly made of rock and ice. The polar regions are the warmest places on the planet. Due to the unique rotation of Uranus, scientists are currently not sure which of the poles is negatively charged.³⁴

Neptune: The composition of Neptune is assumed to be close to Uranus' and made mostly of hydrogen and helium gases. The winds on Neptune can reach up to 2000km/hr., the fastest winds out of all the planets in the solar system.³⁵ These winds should put strong pressure on the outgoing auroral oval.

Pluto: Although little is known about the atmosphere of Pluto, scientists guess that it is made of nitrogen and a mix of carbon monoxide and methane and likely has a magnetic field.³⁶ Unfortunately, with Pluto losing its planetary status, new exploration effort is not expected. Existing data should be re-examined.

Earth: Earth's northern auroral oval has a continuous curtain around its outer edge. This curtain is half a kilometer thick and extends for many thousands of kilometers somewhere in the order of 20,000 kilometers.³⁷ Within this curtain, you will find the Northern Lights with

their varying intensities caused by a high-vacuum electrical discharge within the mixture flowing through the auroral oval via the auroral curtain, an electric dynamo releasing into Earth's atmosphere.

The entrance surface of Earth's auroral oval contains about 3 million square kilometers while the auroral curtain contains about 10,000 square kilometers of entrance surface. The auroral curtain extends downward 100 kilometers giving it a volume of one million cubic kilometers of dynamic interaction between the magnetic field of Earth, the Interplanetary Magnetic Field and the solar wind.

The auroral curtain hangs down into Earth's atmosphere reaching an elevation 60 miles off the surface of the Earth. Another 10 miles closer to the surface of the Earth, noctilucent clouds circle the globe.³⁸

The area below the Earth's northern auroral oval is a region of heating and strong winds that carry the inflow into the ionosphere and upper atmosphere. The Auroral oval is fixed with respect to the Sun while the Earth rotates under the auroral oval. The geographic pattern of the auroral oval discharge changes as Earth rotates explaining along with solar wind, why auroral light can at times be seen over vast areas.³⁹

The Earth's auroral oval is found at the intersection of the Van Allen radiation belt and the ionosphere and is the boundary between the highly stretched almost vertical magnetic field lines of the polar cap and the more normal field lines at lower latitudes.⁴⁰ Plasmas and electrons traveling the field lines spiral in and hit the atmosphere, generating light whose colors depend on which chemicals – oxygen, nitrogen, and others – are excited in this process.

On Earth, the sound of the auroral oval is intense emitting radio waves over wide frequencies in the range of 500 - 1600 kHz. When auroral activity increases, more galactic radio noise is absorbed into the ionosphere.⁴¹

The causes of the Aurora have been well studied by Dr.Syun-Ichi Akasofu, when he was Director of the International Arctic Research Center. He and others have brought the implications of the auroral oval and Earth's magnetic field into view as Earth's geomagnetic field becomes one with the interplanetary field. The auroral oval size will vary with the strength and direction of the interplanetary magnetic field.

I propose that the auroral oval is a common denominator that every *Astrological Planet* possesses. With eleven *Astrological Planets* (Earth included), there should be at least twenty-two auroral ovals in our

Solar System breathing in inter-planetary chemicals and building blocks and discharging planetary influenced complexities back into our solar system. Time will only find more complexities of interaction as more auroral ovals are located.

The intake and discharge interaction happens with varying degrees of pressure applied to the auroral ovals by the continuous never stopping solar wind made up of electrically charged particles. The almost constantly changing solar wind affects the voltage of the auroral generator and changes the electric and magnetic fields around Earth. There are several measuring devices being used today, but no one seems to be looking at a cross section of the flow and its composition.⁴²

A stream of particles comprised mostly of electrons and protons, flows out from the Sun at speeds of 36,000 kilometers an hour. As it flows out, the solar wind, the result of the hot corona expanding into space accelerates and can reach speeds as high as 3 million kilometers an hour. Ion cyclotron waves made of protons circle around the Sun's magnetic field.⁴³ They accelerate the solar wind and cause it to heat up as it blows into cold space. Chemical elements of the solar wind such as hydrogen, helium and heavier ions, blow at different speeds and change temperature with direction.

The solar wind usually reaches Earth with a velocity around 1.5 million kilometers an hour.⁴⁴ The intensity of the magnetic field hitting Earth is measured at 2–5 nanoteslas. Earth's surface field is usually 30,000–50,000 nanoteslas. During magnetic storms, flows can be several times more intense while the interplanetary magnetic field may also be much stronger.⁴⁵

Earth's magnetosphere is formed by the impact of the solar wind on the Earth's magnetic field that forms an obstacle to the solar wind, diverting it, at an average distance of about 70,000 km forming a bow shock⁴⁶ 12,000 km to 15,000 km further upstream. The width of the magnetosphere abreast of Earth is typically 190,000 km, and on the night-side a long magnetotail⁴⁷ of stretched field lines extends to great distances.

The flow pattern of magnetospheric plasma moves from the magnetotail toward the Earth, around the Earth and back into the solar wind through the magnetopause on the day-side taking with it outflow from the southern auroral oval.

The magnetosphere is full of trapped plasma as the solar wind

passes the Earth. The flow of plasma into the magnetosphere increases with increases in solar wind density and speed. Some magnetospheric plasma travel down along the Earth's magnetic field lines and lose energy to the atmosphere in the auroral zones. Magnetospheric electrons accelerated downward by field-aligned electric fields cause the bright aurora features. The un-accelerated electrons and ions cause the dim glow of the diffuse aurora.

Space Transference

Between the planets is an impressionable medium affected by the weight of passing spheres of energy. The weight of energy upon this impressionable medium creates magnetic waves.⁴⁸

Richard Feynman, winner of the Nobel Prize for Physics (1965)⁴⁹ “If, in some cataclysm, all of scientific knowledge were to be destroyed and only one sentence passed on to the next generation of creatures, what statement would contain the most information in the fewest words? I believe it is the atomic hypothesis that: All things are made of atoms - little particles that move around in perpetual motion, attracting each other when they are a little distant apart but repelling upon being squeezed into one another. In that one sentence, you will see, there is an enormous amount of information about the world, if just a little imagination and thinking are applied.”

I propose that these atoms escape from every planet in our solar system by leaving through the auroral ovals to enter interplanetary space where energy push gives way to magnetic pull.

American astronomer, Professor Henry Norris Russell, of Princeton, said in the *Scientific American* for November 1929, when talking about Einstein's contribution.⁵⁰ “The central fact which has been proved— and which is of great interest and importance— is that the natural phenomena involving gravitation and inertia (such as the motions of the planets) and the phenomena involving electricity and magnetism (including the motion of light) are not independent of one another, but are intimately related, so that both sets of phenomena should be regarded as parts of one vast system, embracing all Nature. The relation of the two is, however, of such a character that it is perceptible only in a very few instances, and then only to refined observations.”

Planetary Dispersion

On Earth, we have a fairly constant and consistent large scale structure that facilitates atmospheric circulation, the large scale movement of air. The wind belts surrounding our planet are broken into three longitudinal circulation cells:⁵¹

1. Hadley Cell (Cardinal): The Hadley Cell is a high volume closed circulation loop, where the vast bulk of vertical motion that occurs is similar in motion to the astrological Cardinal activity. Moist air is lifted aloft in the inter-tropical convergence zone to the troposphere and carried to the poles.
2. Ferrel Cell (Mutable): The Ferrel Cell is similar in motion to the astrological Mutable activity as it is the circulation facilitator for the high and low pressure areas. This cell is sometimes known as the “zone of mixing.” The Ferrel Cell is not a closed loop like the Hadley and Polar Cells where the flows are more predictable. The Ferrel Cell is the movement of air masses influenced by the jet stream that I propose has been influenced by an auroral oval flow.
3. The Polar Cell (Fixed): The Polar Cell is a stable area that strengthens and weakens, driven by lower latitude warm air and undergoes enough convection to drive a thermal loop. The Polar Cell is similar in motion to the astrological Fixed activity. The cold air in the polar areas mixes with the auroral flow and drops as cold dry high pressure moving away from the poles to travel westward. This downward outflow creates harmonic waves in the atmosphere known as Rossby waves.

Rossby waves, (often called planetary waves) are very long high frequency westward moving waves that guide the path of the jet stream traveling the troposphere and enter the Ferrel Cell. Rossby waves are found both in the atmosphere and in the oceans.⁵²

Between these three cells is an overall atmospheric motion called zonal overturning circulation,⁵³ a consequence of solar radiation density, that like an astrological Cusp merges the cells together at their outer perimeters.

There are vast ocean currents like the Pacific Ocean Cell, an entirely ocean based circulation cell that flows below the atmospheric wind circulation cells, affecting our weather as energy is transferred from ocean to atmosphere. This is where El Nino and La Nina are born.⁵⁴

In these days of extreme weather, life here on earth is easily disrupted by energy from our atmosphere that has come through the auroral oval. Energy is transferred from our atmosphere to human life here on Earth. I propose that this energy carries signatures from all the planets in our solar system.

The planets are dispersing all the time and our planet Earth is receiving all the time. The cyclical nature of the planets may cause increases and decreases to the dispersing and receiving.

Can we go so far as to say that something transported through space from Saturn has reached Earth and is playing a role in our weather? Possibly, but we will only know for sure when science produces a cross section of the inflow of Earth's northern auroral oval. A cross section that identifies quality and quantity and originating source.

Can we go further and say that something in our atmosphere that has arrived from a planet in our solar system is affecting our health? Possibly, if we are breathing our atmosphere then we are breathing in part what has come through the auroral oval, the gateway to the other planets of our solar system.

Magnetism and electricity are all around us. The human body is composed of a high quantity of water making it an excellent receptor and conductor of magnetic electricity energy. Science has recently discovered that magnetotactic bacteria contain inside them chains of very small single crystals of magnetite. These chains line up with the Earth's magnetic field and the bacteria themselves are then also aligned, unable to rotate away from this fixed direction, but confined to travel up and down a magnetic field line.⁵⁵ Growth of such mineral structures inside living organisms is called biomineralization. Examples of this process of mineral growth include the formation of shells and bone.⁵⁶

Since I wrote the first draft of this theory, I have received comments and suggestions from several prominent astrologers. I have tried to incorporate all that I have received and clarify my position and thinking. Any errors are mine. Any incompleteness is my inability at this time

to find scientific evidence. The purpose of this theory is to open future thought on the electromagnetic connections between planets and inter-planetary space and the ramifications for life on Earth.

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Tony Waterfall has published four astrological theories and has been involved in many pioneering astrological efforts including 320 weeks with online astrology forums. His keen interest is in the linking of multiple charts (tropical/sidereal) (geocentric/heliocentric) using Exactitudes (the exact timing of angular interaction) and Apparent Motion (direct and retrograde motions). Some of his past accomplishments include:



Director of Registration, Canadian Astrological Directory, Director of Registration, Waterfall Astrological Directory, Director of Registration, World Astrological Directory Director British Columbia Astrological Society, British Columbia Coordinator Canadian Independent Astrologers Order. He can be reached at twaterfall@shaw.ca .



A tribute to Bonnie Armstrong

(August 9, 1924 – May 8, 2008)



From Conversations with Leigh Westin

It was in the early 70s at an AFA Conference that I first met the elegantly attired 'lady in the hat', Bonnie Armstrong. Even at first introduction, Bonnie came across as a modest and pragmatic persona, yet freely discussed our craft with an unassuming brilliance. Thus to me, and multitudes of others, this physically diminutive lady was an intellectually tall figure in the astrological world. Bonnie was a meticulous and adept true astrological researcher and though she worked with clients and students she also worked with psychiatrists, scientists and well-known astrological professionals, thus well-respected for her endeavors. As much as Bonnie loved to research and lecture, she was equally shy about the written word, thus a series of interviews ensued so her knowledge could be shared.

Bonnie was also known as an adept palmist and in the following interview she shared her encounter with astrology, the very beginning of which was a deep secret. In Bonnie's words:

I was familiar with astrology references through the palmistry that I had been taught, beginning as a very young child; in fact it was handed down from a great-great grandmother who had been a gypsy—I was forbidden to ever tell this when growing up. She had run away from the tribe to marry my great-great-grandfather and went into hiding every spring because she was afraid when the gypsies came through they would take her away. And, too, when I was growing up, being related to a gypsy was considered pretty terrible.

As a tradition, palmistry was handed down from grandmother to granddaughter. I remained secretive about it until I read about a woman giving a class in palmistry at an AFA gathering. I sought her out as soon as I arrived and we spent a good bit of time together. I went to her class and sat in the back. Every once in a while I would—shall we say—speak up, with her urging of course, since people were saying things that were totally wrong. I remember the *murderous thumb* mentioned—people began tucking their hands under their arms. So I spoke up and said—no, no, your hands are what you have to have to live this lifetime, just like your astrological chart is what you have to live this lifetime—and it is all there, if you know how to use it—it is not negative unless you choose to use it that way.

How Bonnie's interests broadened from palmistry into the astrological world, she had this to say:

For a short time I worked for a business that was close to the city library where I spent my lunch hour. This particular time, I picked up a magazine with an article about Marlene Dietrich. She was highly successful which was unusual for a woman then and had been married to the same man for many years—again unusual, especially for Hollywood. The article told about Marlene advising a young actress that she should not do anything until checking her horoscope—which Marlene proceeded to do for her. Since this successful, dynamic woman used astrology, I thought: here is something that must work.

After reading the magazine article about Dietrich, I looked for astrology books at the library. There were three books, all in the archives and retrieved for me to check out. One was Vivian Robson's *The Radix System*, another Evangeline Adams', *The Bowl of Heaven*, and the third,

an Alan Leo book. They were very helpful. Then secretively, like with palmistry, I began buying astrology magazines, *Dell Horoscope* and *American Astrology*. But it was the Dietrich article that got me started.

Astrology is so incredible. You watch television and you see it demonstrated in every moment of time. You observe the incredible creativity of other people. Jim Lewis is a good example. His *Astro*Carta*Graphy* program, was such an extraordinary demonstration of how astrology works. I also remember his amazing, if not bizarre, sense of humor, a total delight in my book. But his research was incredibly important. He put it out for the public, and he said, you can use my work, but you must always give credit where credit is due. In other words, always acknowledge the source, which I don't see demonstrated very much by a whole lot of astrologers.

It is not a good picture of humanity that astrologers can't acknowledge other astrologers' work—that they can't say I heard this speaker and I learned this great idea or fact. I have been very fortunate to have been in contact with so many great astrologers and really value so many people and what they do. I'm a pretty hard pragmatist and think we had better acknowledge people for what they do if we want to continue making progress.

The last interview with Bonnie occurred just a year before she departed this plane. Bonnie especially wanted two pieces of her research presented to the astrological community. One was the Lifetime Factor which was published in the 2013 November-December Memberletter, the other was the Point of Lonelines presented herein.

~ Leigh Westin



The Point of Loneliness

Developing the Point of Loneliness came about through my friendship with Barbara Watters and the progress Al Morrison was making in investigating from a mundane perspective, what later became known as the-void-of-course Moon.

Basically a void-of-course Moon begins after it makes no more aspects before it changes signs and ends when it enters 0° of the next sign. After considerable investigating, Al generalized that time period to be (his exact words) a “silly season or a vacation from normal living.” After his considerable research and writings, the event came to be known as a time that little or nothing would come of anything begun then and that it was best used for relaxation, meditation or something of that nature. Once in a while the event could last up to two days, but most often it would last for only a short time when the Moon was in the latter degrees.

As Al’s research went forward, I began to wonder about other positions in late degrees, the Sun and planets, and rather than from the mundane perspective, from a natal impact. Discussions with Barbara, her friendly encouragement and considerable research on my part led to the late degree bodies showing evidence as a Point of Loneliness.

My curiosity was first directed toward my own chart and those of my family, but it was an experience with a railroad executive with whom I worked that brought to words a possible theory.

The man was like the Rock of Gibraltar, strong, steady and very much available when his employees turned to him about work or any issue for that matter. Yet he responded quite differently if personal factors came up, especially family, or talk about a mother or female siblings. He would become very quiet, and eventually slip into his office and close his door.

One day after such an exchange, the opportunity arose that I could say that I hoped I hadn’t said anything to offend him since I noticed he went into his office and closed his door. With no hesitation, he said “no, not at all,” then looked rather perplexed.

We talked further and he confided that he hadn’t realized until then that he was acting in a pattern and went on with a little self-analysis—that he didn’t have a close relationship with his mother; that his sisters were physically comforted when they had problems, but the same didn’t occur for him. He said his folks weren’t bad to him or anything of that nature, but he wasn’t treated the same as his sisters and when this wasn’t

forthcoming, he would go to his room and do something else—further commenting, “I guess I still do.” In essence, the man had learned to deal with a negative impact and used it positively for himself. Later I learned his birth date and it was more confirming than surprising to find his Moon at 28° Leo, and the latest degree body in the chart.

I began researching as many charts as I could lay my hands, eventually leading to the conclusion that the latest degree planet in a natal chart represented a *point of aloneness*, describing energy that one had to act on their own to fulfill its destiny. Because the energy nearly always was such that a person not only acted alone, but that the feelings accompanying were a type of loneliness as well, Barbara suggested that perhaps the term would be better described as the Point of Loneliness, thus it was.

This concept was presented for the first time at the Chicago AFA conference. It is my hope that in sharing it again, that people will make use of it in their own charts and apply for clients. Look for the latest degree position in a chart, recognize it as your Point of Loneliness and analyze how you can apply it positively to make a difference in your life to fulfill your own type of destiny.

[Bonnie mailed a copy of her research matrix, and from that listing, an example of the Moon, Sun and planets (Mercury-Neptune) as the Point of Loneliness are briefly described.]

Edgar Casey is a good example of the **Sun** (27 Pisces 50), as the latest natal degree body. Casey, perhaps the best known American psychic, went into trances exhibiting an extraordinary intelligence and healing knowledge of which he had no memory when in the waking state—like he was a separate entity when in trance. (Birth: March 18, 1887; Beverly, KY.)



Winston Churchill’s Point of Loneliness was the **Moon** (29 Leo 36). Like the railroad executive, Churchill was estranged from his parents. An out-of-bounds Moon may also correlate to an unusual family paradigm, however, his was inbound. Churchill was a prolific solo writer, focusing on war and politics (Moon) and acting for the public (Moon) as a politician, but frequently from his own, often unpopular

ideas and from a dictatorial approach (Moon 15N38 parallel Uranus 16N55, near 16N/S20, power point). In WWII he established a Minister of War position, named himself and illustriously performed. (Birth: November 30, 1874; Woodstock, UK.)

Nikola Tesla had **Mercury** at 28° 26', in its own sign, Gemini, and is acknowledged today as one of the most brilliant minds ever (Jupiter parallel Pluto near the equinox, but not quite on it). During his life, he was so far head of his day in his aloneness of thought, eccentricity and perhaps antagonistic to boot (Moon parallel/conjunct Mars), that his radio invention was credited to Marconi, his work with electricity was credited to Edison and his desire to give the public free electricity was curtailed, then exploited by J.P Morgan; but then he also had Sun parallel Saturn. (Birth: July 10, 1856; Smiljan, Austrian Empire.)



Walt Disney, one of the most influential innovators in the entertainment world had **Venus** at 29 Capricorn 12, in the 4th, ruler of his 9th and 2nd of values. His father was a tyrant who often severely beat Walt and his brothers. Disney's no small gifts (Venus parallel, Sun, Jupiter, Saturn, Uranus; all contra-parallel Neptune) allowed him to escape his pain in his drawings. His high values (Venus in Capricorn) brought childhood joys that he himself, had missed, to children all over the world through his animated movies. (Birth: December 5, 1901; Chicago, IL.)

Bob Hope's Point of Loneliness was **Mars** 29° 43' in Virgo. Hope's fame as an entertainer for the common soldier (Virgo) in active war (Mars) zones was greatly admired and well-known (Mars 00N47, on the Equinox, thus connected to the Aries Point, thus the world). Originally it was his courage of conviction alone to support the war efforts in WWII. Though later others joined him in this generous service, there was always for what he did the loneliness of consciously choosing to place oneself in physical danger. (Birth: May 29, 1903; Elton, UK.)

Jack Anderson, a newspaper columnist, was a major initiator of modern day investigative reporting. With his latest degree planet, **Jupiter** (28 Libra 28) parallel-conjunct his Sun (25 Libra 38) in the sign of justice

(Libra), he considered his crusade against corruption to be a noble cause (Jupiter), most certainly a point of loneliness. Add the Nodes (connections) even later placed (29 Pisces/Virgo 39), right on the equinoctial axis (00N/S08), and connections, no doubt, came from around the world. He was passionately courageous (Venus and Mars in an out-of-bounds anti-scion parallel to focus on the hidden) and was both a key and controversial in reporting on J. Edgar Hoover's ties to the Mafia, Watergate, JFK's assassination, the Savings and Loan scandal, and for breaking the Iran-Contra affair. Henry Kissinger once said Anderson was "the most dangerous man in America." which in turn placed Anderson's life in danger, a most lonely spot. (Birth: October 19 1922; Sioux City, IA.)

Saturn (25 Sagittarius 22) marked the Point of Loneliness for Martin Luther King, Jr., a primary leader of the civil rights movement. King's Sun (25°08') was in Capricorn, sign of status, parallel powerful Pluto. King was educated as a Baptist minister, one of the few leadership roles available to blacks during his lifetime. Early on he became highly visible as a civil rights activist (Uranus, 00N55, at the Aries Point; Mars, out-of-bounds in Gemini). He saw the need to raise public consciousness concerning segregation and racial discrimination, using Gandhi's non-violent methods and established himself as one of the great orators in US History with his "I Have a Dream" speech. He was the youngest to ever receive a Nobel Peace Prize (1964). Four years later, he was assassinated (April 5, 1968). (Birth: January 15, 1929; Atlanta, GA.)

Uranus (29 Virgo 49) was the Point of Loneliness for Eleanor Roosevelt. By choosing to make a difference, Eleanor redesigned her destiny. She restyled the traditional First Lady role and refashioned it



around her oratorical skills and commitment to social reform and civil rights, often taking radical steps to set an example; when black Marian Anderson was rejected by the Daughters of the Revolution, Eleanor resigned her own membership. Not surprisingly, Uranus (00N43) was parallel Mercury (00°41, North) which was in the opposite direction (South, 02 Libra 49) by longitude, thus adding a bit more of the unusual to the mix—indeed, she was the first

woman to speak at a national convention, to write a syndicated column, to be paid as a lecturer and radio commentator and to hold regular press conferences. She set the stage for women as a whole to later gain a better foothold in the work place (Uranian change). (Birth: October 11, 1884; New York, NY.)

Grandma (Anna Mary) Moses' lonely **Neptune** at 28 Pisces 20 Rx was accentuated late in life when she began her painting career at age 76. When her arthritic hands could no longer embroider and crochet, she turned to brush, capturing daily life and rural themes commonly found in upstate New York where she had lived all her life In declination, Neptune was near the Equinox (01S54) parallel Pluto (00S56) while in the opposite direction by longitude (09 Taurus 45), thus adding a further unusual tone. In fact her first one-woman show in 1940 immediately catapulted her to fame. Painting became her destiny, dramatically changing her life, a destiny that only she alone could enact and fulfill. (Birth: September 7 1860; New York, NY.)

Bibliography

1. Published in *The Other Dimension*, Declination SIG Journal, Vol.12, No.3, Autumn, 2007.
2. Ibid.
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Bonnie Armstrong who passed away in 2008 was an astrologer, palmist, and an enthusiastic advocate for the use of declination in one's astrological work.



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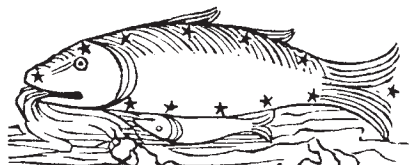
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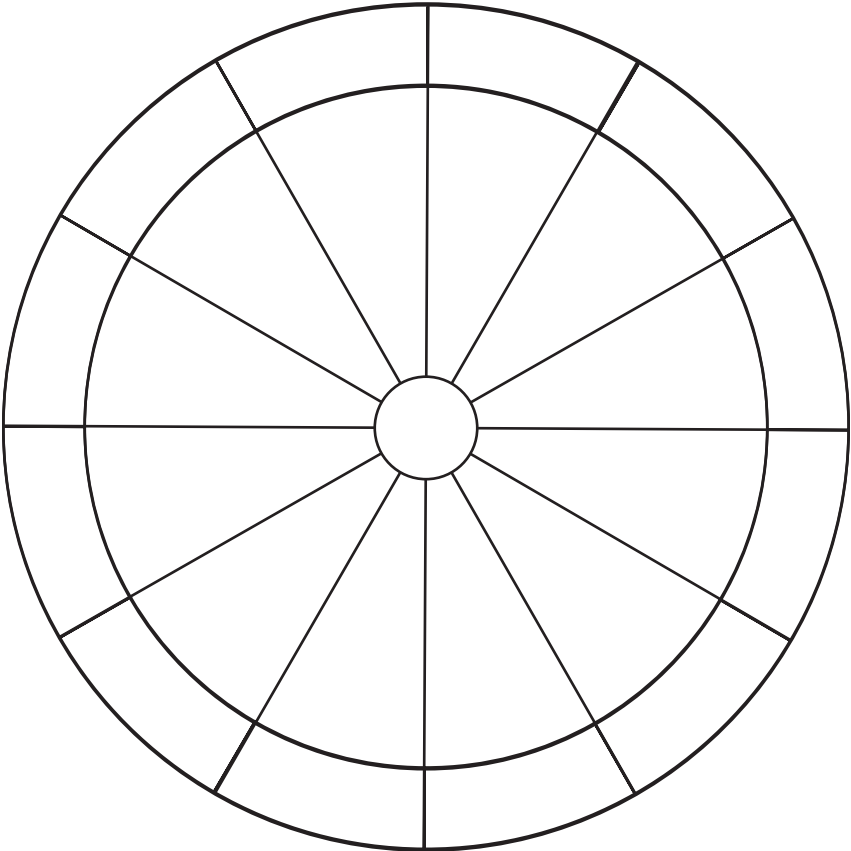
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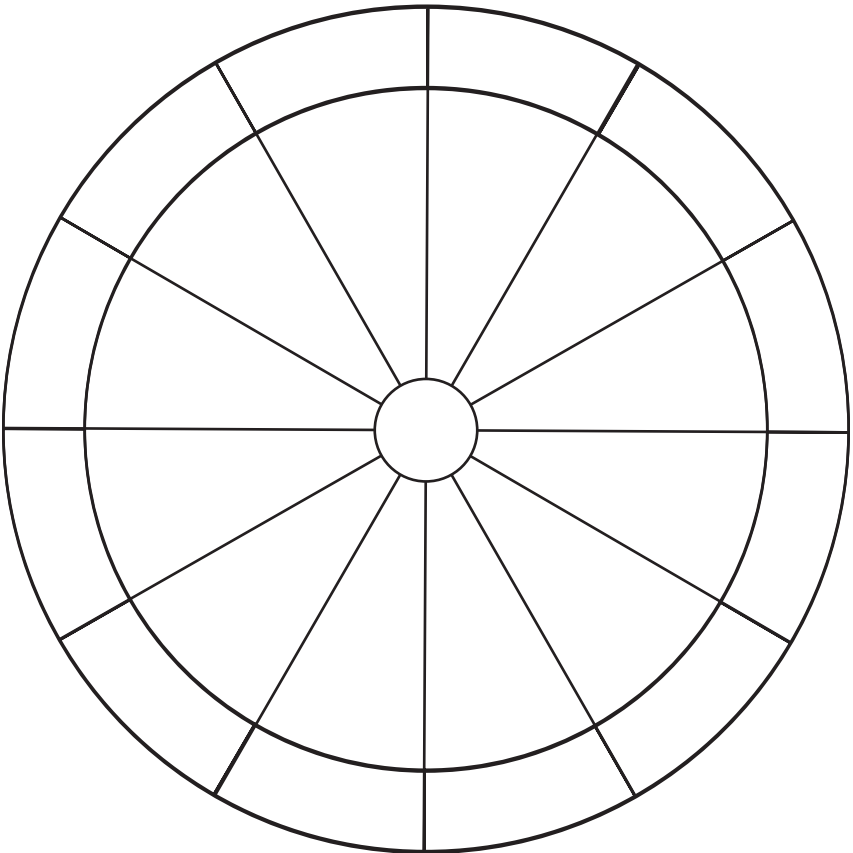
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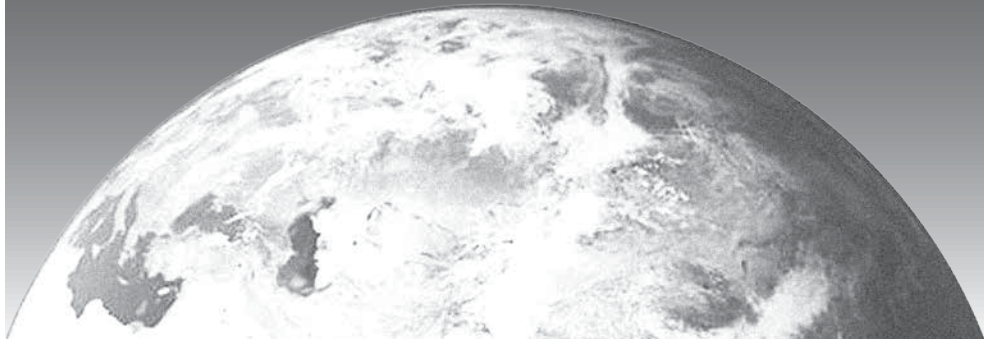
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