

## Stormy 2018 from perspective of vortical astrogeophysics

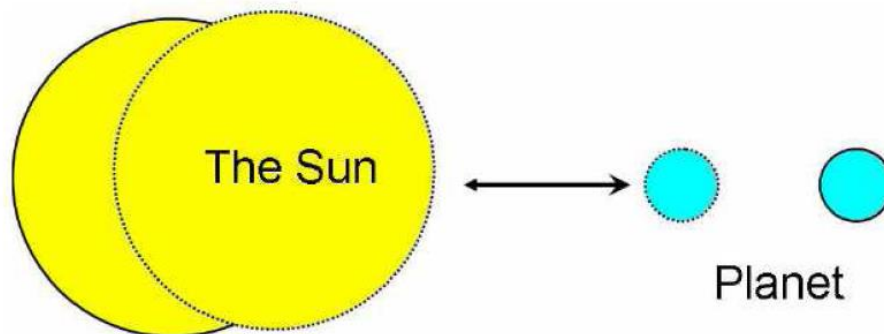
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One level of acting forces of astrogeophysics are deciphered here in examples of July/August and September/October ephemerides.

keywords: DesCartes vortices, climate, astrogeophysics, Blizard report, Charvatova, 2018 Atlantic cyclone season

As forecasts for 2018 Atlantic hurricane season range from „above normal” to just catastrophic, it is interesting to make a factor analysis of vortical astrogeophysics and see, how it corresponds with hurricane season afterwards.

Acting objects are Jovian planets, Mercury, Venus, Mars. Here is vortical jostle between the Sun and all Jovian planets (cf. Blizard, 1969; Charvátová, 2014) (fig.1).



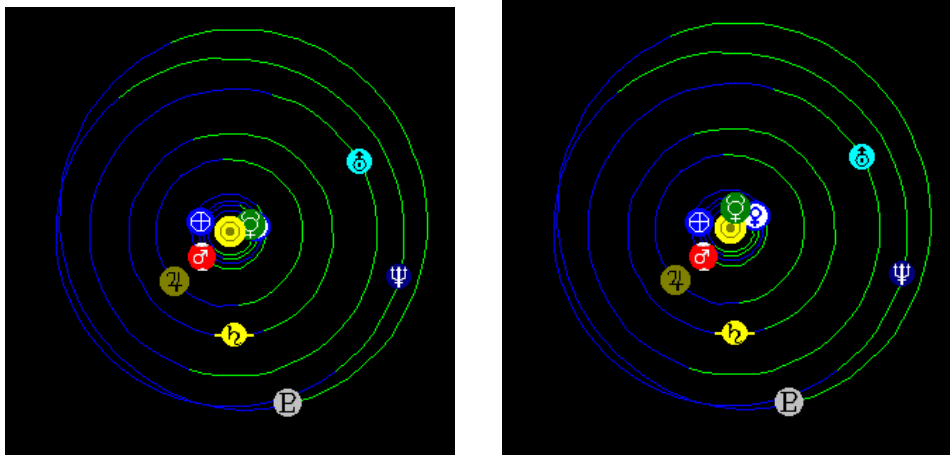
**Fig.1 Mutual displacement of the Sun and Jovian planets.** Not to scale.

Mercury, Venus and the Earth itself can interfere with this interaction. Mars can reflect in certain extent solar radiant energy back to Earth, as climatological artifacts shows.

Hurricane season forecast than falls into several stages:

- 1) getting the „baseline”,
- 2) estimation of probability and timing of strong solar flares,
- 3) analysis of planetary ephemerides.

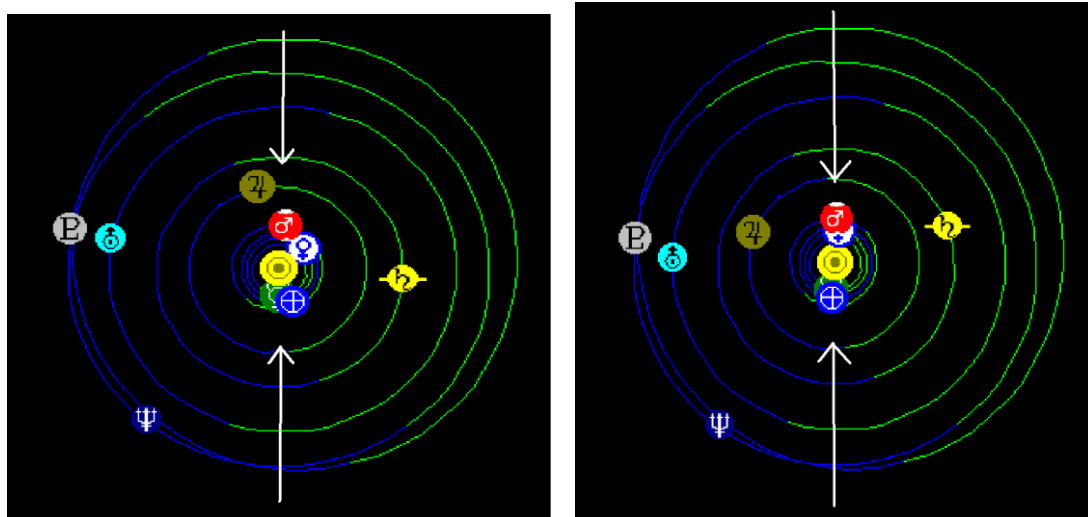
1) „Baseline” for 2018 are neverending storms on winter/spring boundary which may prompt turbulent Atlantic hurricane season later on. For US East coast here were four nor'easter storms in first three weeks of March (fig. 2).



**Fig.2 Enigmatic planetary positions in the beginning (left) and in the middle (right) of stormy weeks of March, 2018.** Connections of Jupiter- the Sun, Uranus- the Sun and galactic connection of the Sun (see fig.3) are distorted. Opposition of Neptune for the Earth.

Torrental rain has become more common, signaling (in our viewpoint) about changes in upper mantle turbulence. Thus draining the rainclouds should be possible as a mean of tactical geoengineering.

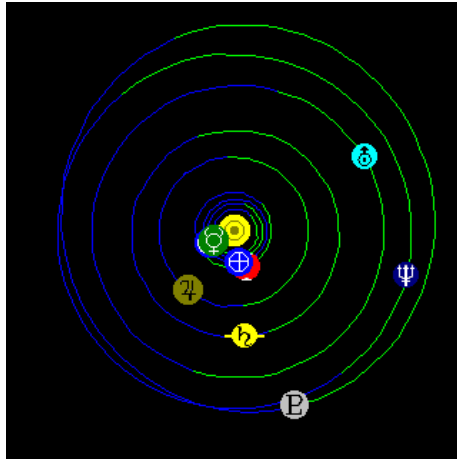
2) Blizard (1969) mentioned conjunctions of Jupiter-Venus, Jupiter-Mercury and especially Jupiter- Venus- Mercury as a triggers of solar flares, noting certain more favorable celestial directions for this. Here was, however, a type of proton events, which could not be explained that way. Mentioned artifacts can be understood better within vortical galactic celestial mechanics- planets distort connections of the Sun with galactic centre and Perseus arm (fig. 3).



**Fig. 3 Planetary positions in mid July, 1966 (left) and mid June, 1968 (right) which coincide with proton events.** Important galactic connections of the Sun are distorted. *Credit: Fourmilab*

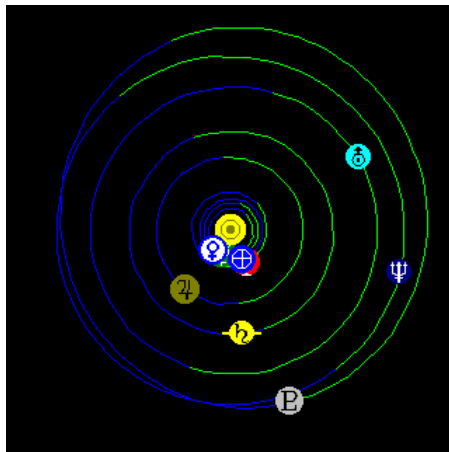
In 2018, we see Jupiter-Venus conjunction around July, 20 and Jupiter-Mercury conjunction- around July, 10 and October, 10.

Let us look for planetary ephemerides for interesting moments of July/August and September/October, 2018. (July is not classical month for hurricanes, of course).



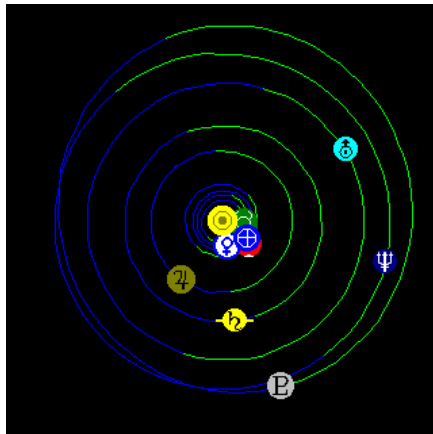
**Fig. 4 Planetary positions in July 1, 2018.** *Credit: Fourmilab*

Start of interesting period. Earth is leaving Saturn conjunction and approaching Mars, Mercury and Venus are getting closer to conjunction with Jupiter. All planets are within 180 degree angle from the Sun.



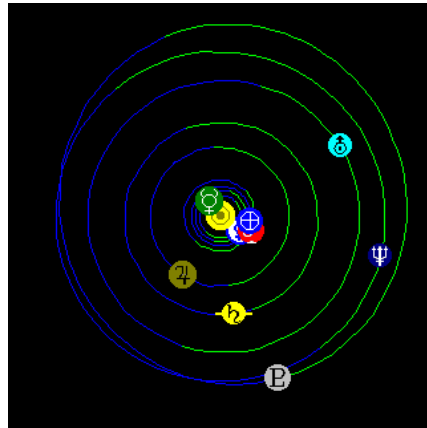
**Fig. 5 Planetary positions in July 15, 2018.** *Credit: Fourmilab*

First Mercury, then Venus are passing Jupiter conjunction. Mars stay close to Earth in angular aspect for weeks.

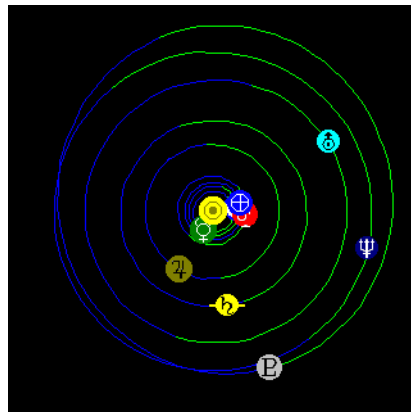


**Fig. 6 Planetary positions in Aug 18, 2018.** *Credit: Fourmilab*

Connection Jupiter- Uranus distorted for weeks. Venus in conjunction with Saturn, partially distorting galactic connection, Neptune-Sun connection is distorted for weeks.



**Fig. 7 Planetary positions in Sep 10, 2018.** Credit: Fourmilab  
Mars and Venus close to the Earth. Neptune-Sun connection distorted. Equinox time.



**Fig. 8 Planetary positions in Oct 10, 2018.** Credit: Fourmilab  
Mercury in conjunction with Jupiter, Neptune- Sun connection clear after weeks, Earth and Venus approached Uranus conjunction. (Uranus can be considered as a weak player, however).

At first look, July/August could bring effective turbulences of nature. Time around autumnal equinox has special power, however. Let us see, which factors will dominate the show.

**References**

Blizard J. (1969) Long range solar flare prediction. *NASA contractor report CR-61316*.  
Charvátová I., Hejda P. (2014) Responses of the basic cycles of 178.7 and 2402 yr in solar-terrestrial phenomena during the Holocene. *Pattern Recogn. Phys.*, **2**, 21–26.