Quest Journals
Journal of Research in Environmental and Earth Sciences
Volume 8 ~ Issue 9 (2022) pp: 96-97
ISSN(Online) :2348-2532
www.questjournals.org

Research Paper

Relation Between Solar Activity Periods & Planetary Orbits:

Suresh Kumar Pareek

Corresponding author's email: pareek.sureshkumar@gmail.com

***R**eceived 04Sep, 2022; **R**evised 17 Sep., 2022; **A**ccepted 19 Sep., 2022 © The author(s) 2022.*
P**ublished with open access at **www.questjurnals.org

Sun's solar activity follows three type of periodic cycles-

1. Solar activity cycle of average 11 years (called Schwabe cycle).

2. Sunspot cycle of average 95.115 days.

3. Solar flare cycle of average 112 days.

Various planets orbit around sun in accordance to above three cycles, as below:

Planet	Orbital period (Days)	Relation to cycle
1. Mercury	87.969	137 orbits in 3×11 years
2. Venus	224.701	1 orbit in 2×112 days
3.Earth	365.242	25 orbits in 96×95.115 days
4. Mars	686.980	9 orbits in 65×95.115 days
5. Ceres	1680.8	1 orbit in 15×112 days
6. Jupiter	4332.59	101 orbits in 4600×95.115 days
7. Saturn	10759.22	100 orbits in 101×112×95.115 days
8. Uranus	30688.5	1 orbit in 274×112 days
9. Neptune	60195	177 orbits in 1000×112×95.115 days
10. Pluto	90560	2 orbit in 17 ×112×95.115 days
11. Eris	204199	6 orbits in 115 ×112×195.115 days
12. Moon	29.5306	34 lunar years in 3×11 years
13. Lunar Node	6798.4	13 orbits in 22×11 years

It is clear from the above table that planets are orbiting in resonance with solar activity periodicities.

Conclusion-

The planetary orbital periods are derivative of solar activity periods.