Earth In The Universe

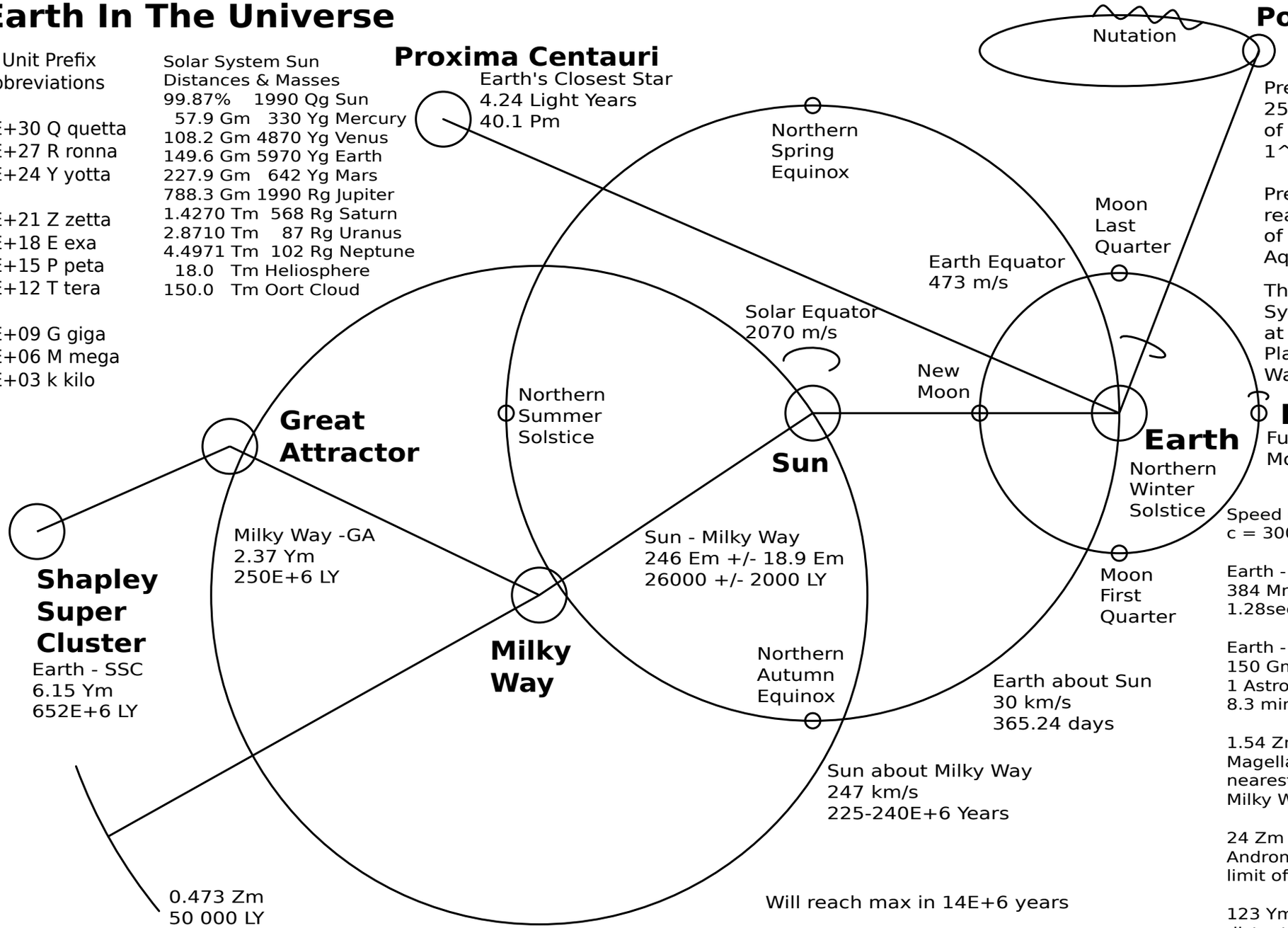
SI Unit Prefix Abbreviations

1E+30 Q quetta
1E+27 R ronna
1E+24 Y yotta

1E+21 Z zetta
1E+18 E exa
1E+15 P peta
1E+12 T tera

1E+09 G giga
1E+06 M mega
1E+03 k kilo

Solar System Sun
Distances & Masses
99.87% 1990 Qg Sun
57.9 Gm 330 Yg Mercury
108.2 Gm 4870 Yg Venus
149.6 Gm 5970 Yg Earth
227.9 Gm 642 Yg Mars
788.3 Gm 1990 Rg Jupiter
1.4270 Tm 568 Rg Saturn
2.8710 Tm 87 Rg Uranus
4.4971 Tm 102 Rg Neptune
18.0 Tm Heliosphere
150.0 Tm Oort Cloud



Precession
25820 year wobble
of Earth's axis
1^ per 72 years

Precession is the reason for the Dawn of the Age of Aquarius

The plane of Solar System planets is at right angles to Plane of Sun - Milky Way

Speed of Light
c = 300 Mm/s

Earth - Moon
384 Mm
1.28sec at Speed of Light

Earth - Sun
150 Gm
1 Astronomical Unit
8.3 minutes at Speed of Light

1.54 Zm 163 000 LY Large Magellanic Cloud
nearest object NOT in Milky Way

24 Zm 2.50E+6 LY
Andromeda Nebula
limit of naked eye vision

123 Ym 13E+9 LY most distant Quasar ...

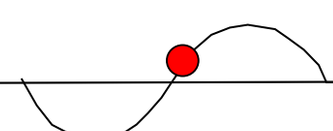
440 Ym 46.5E+9 LY Edge of observable universe

Will reach max in 14E+6 years

Max = 2.37 Em 250LY above

Galactic Plane of Milky Way

Min = 2.37 Em 250LY below



Rising at 7 km/s
Sun - Solar System

0.47 Em 50 LY above plane
crossed plane 2E+6 years ago
period 66E+6 years

http://solar-center.stanford.edu/FAQ/Qsolsysspeed.html

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