



WHAT ARE WE LOOKING AT HERE?

NUMBERS OR LETTERING THAT READ BACKWARDS ARE NEARER TO YOUR POINT OF VIEW.
 NUMBERS OR LETTERING THAT READ NORMAL ARE FARTHER FROM YOUR POINT OF VIEW.

WE ARE LOOKING AT 3 SYSTEMS AND THEIR NORTH POLES.

SYSTEM 1 IS THE PATH OF THE EARTH AND ITS POSITION AT 12 POINTS DURING THE YEAR.

WHAT IS SHOWN HERE IS ALMOST IDENTICAL TO WHAT IS KNOWN AS THE ECLIPTIC, EXCEPT THE ECLIPTIC IS LABELED BY THE APPARENT POSITION OF THE SUN AND HERE I HAVE LABELED THE POSITION OF THE EARTH. THE DIRECTION PERPENDICULAR TO THIS SYSTEM IS ECLIPTIC NORTH.

SYSTEM 2 IS THE CELESTIAL EQUATOR, THE EQUATOR OF THE APPARENT SPHERE OF STARS THAT SURROUNDS US, THAT APPEARS TO ROTATE ABOUT THE EARTH'S AXIS. THE DIRECTION PERPENDICULAR TO THE CELESTIAL EQUATOR IS CELESTIAL NORTH.

SYSTEM 3 IS THE GALACTIC EQUATOR, THE APPARENT EQUATOR OF THE MILKY WAY, ALTHOUGH IT IS ONLY APPARENT. THE TRUE CENTRAL PLANE OF THE MILKY WAY IS A BIT SOUTH OF OUR SOLAR SYSTEM AND THE TRUE CENTER OF THE MILKY WAY IS HUGELY DISTANT AWAY, IN THE DIRECTION INDICATED BY 0. THE DIRECTION PERPENDICULAR TO THE GALACTIC EQUATOR IS GALACTIC NORTH.

THE ANGLE BETWEEN ECLIPTIC NORTH AND CELESTIAL NORTH IS 23.4392°

THE ANGLE BETWEEN CELESTIAL NORTH AND GALACTIC NORTH IS 62.8717°

THE ANGLE BETWEEN GALACTIC NORTH AND ECLIPTIC NORTH IS 60.1923°

THESE ARE ALSO THE ANGLES BETWEEN THE RESPECTIVE EQUATORS OR PLANES OF THE SYSTEMS.