Precession of Orbit Plane Pole

Large Satellite at GEO
Notes and legend:

The xy plane is the Earth's equatorial plane.

The x axis is aligned with the vernal equinox and is pointing out of the paper.

F₁ is the perturbing force due to the equatorial bulge.

F₁p is the out-of-plane component of F₁. It generates a torque tending to regress the ascending node.

F₂ is the perturbing force due to lunar and solar gravity.

F₂p is the out-of-plane component of F₂. It generates a torque tending to advance the ascending node.