



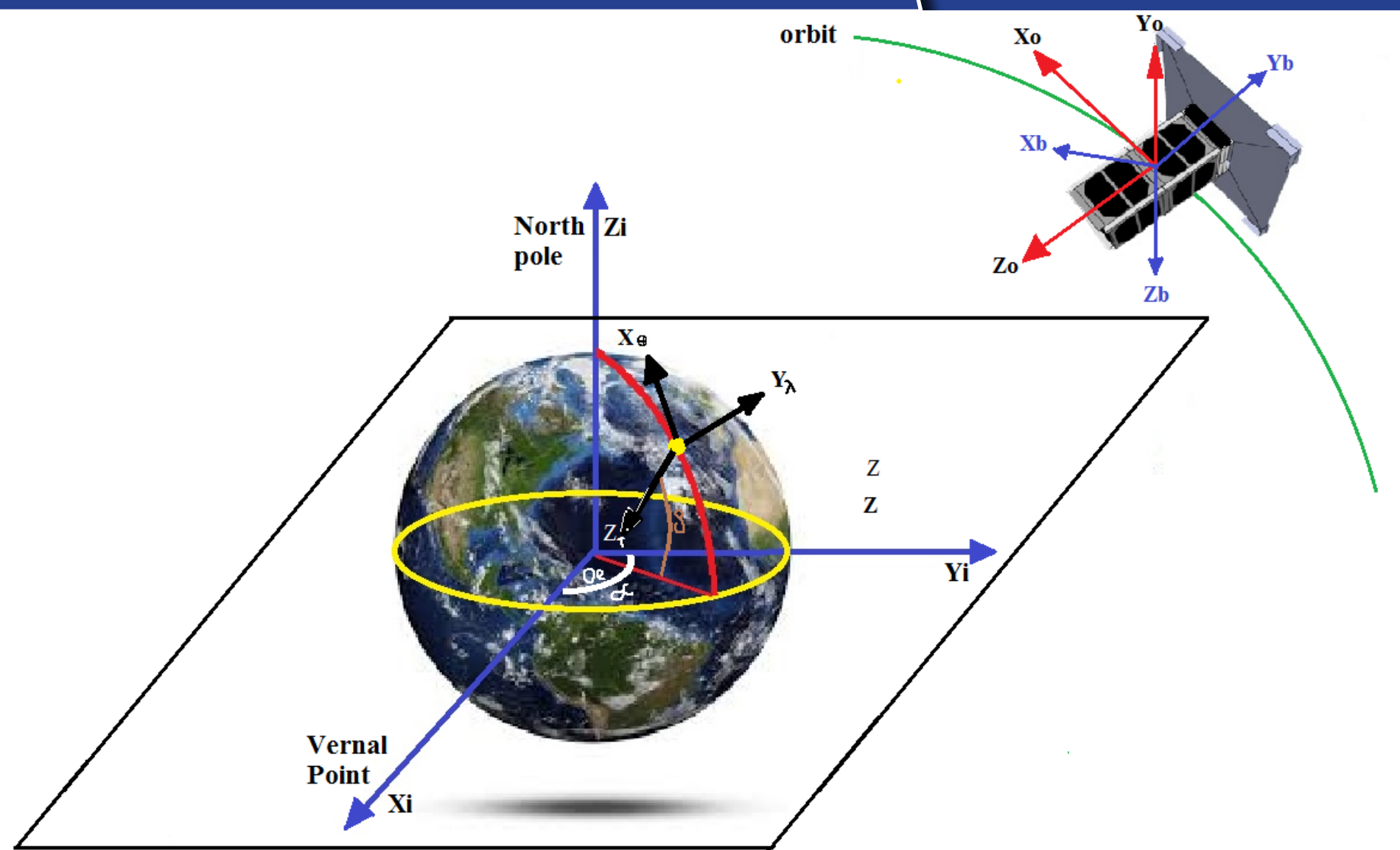
# MASTA 2015 (Micro-Satellite Technology) Team Pilot Project Final Poster

TP Group Advisor: **Dr. Wang Xinsheng**

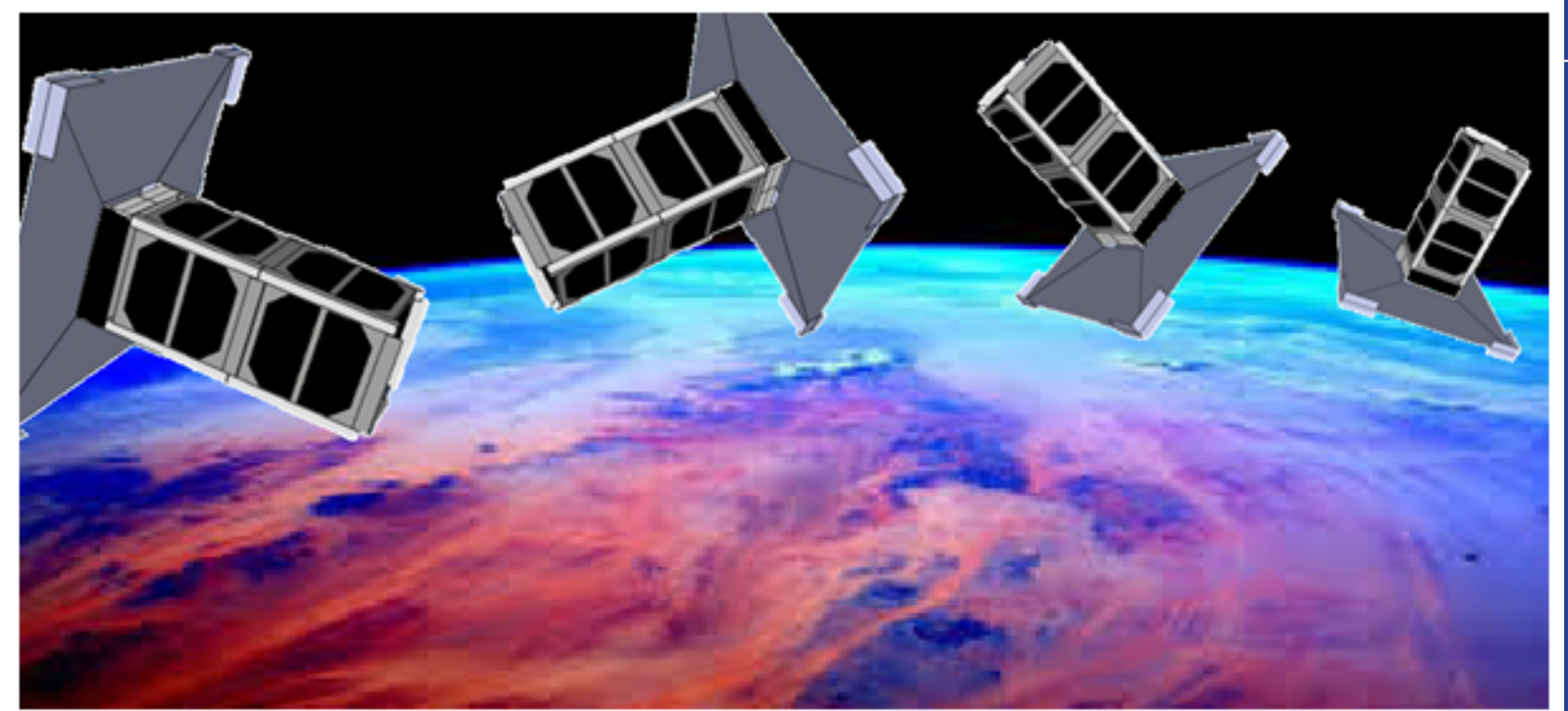
## ATTITUDE DETERMINATION AND CONTROL SYSTEM (ACDS)

Submitted by: **Jhonny Uscategui, Hasan Uzzaman**

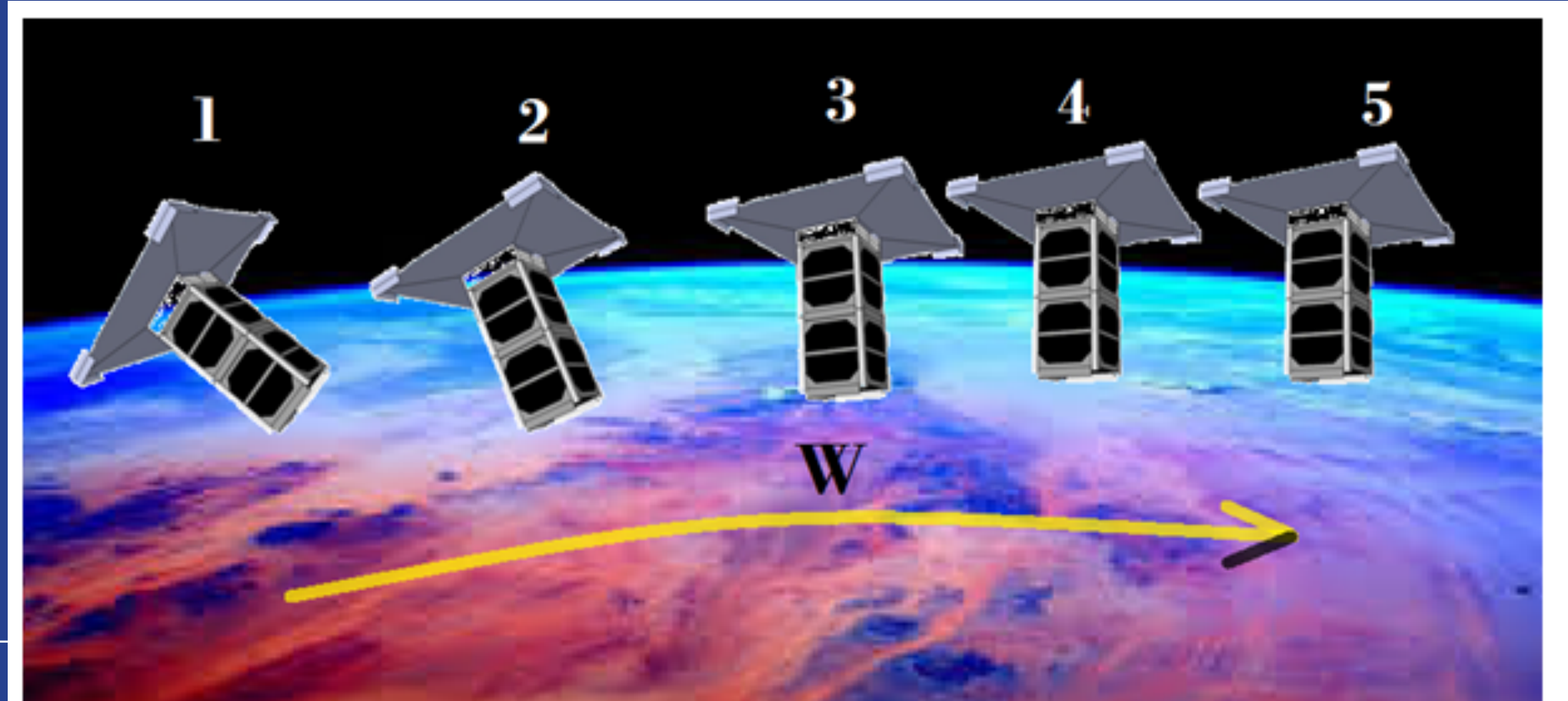
ACDS



**QY-1 COORDINATE SYSTEM**



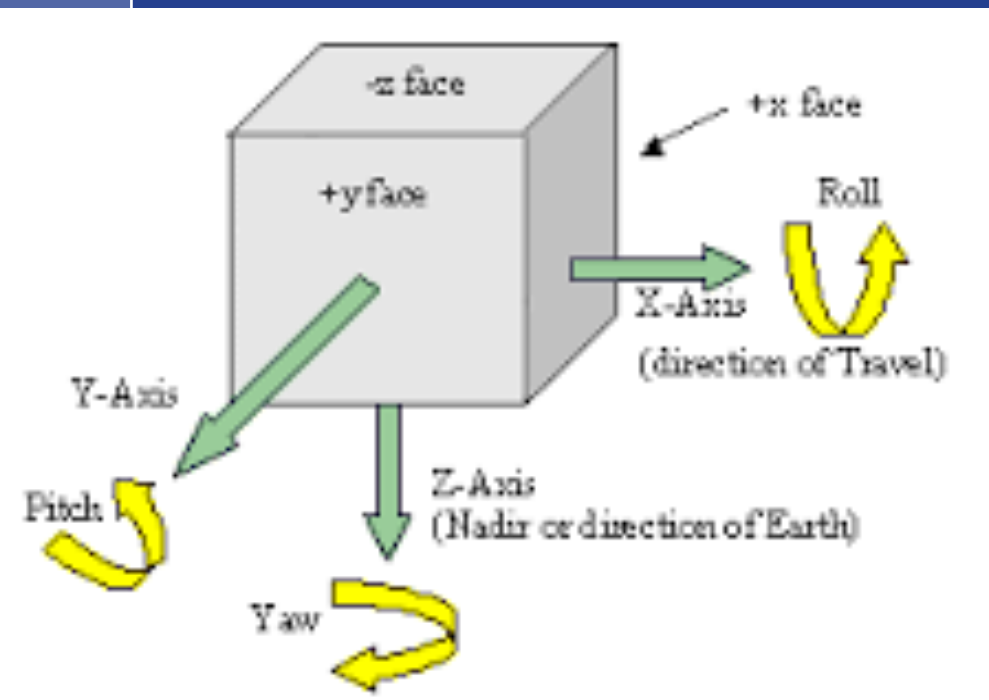
*QY-1 after deployed and before beginning damping mode.*



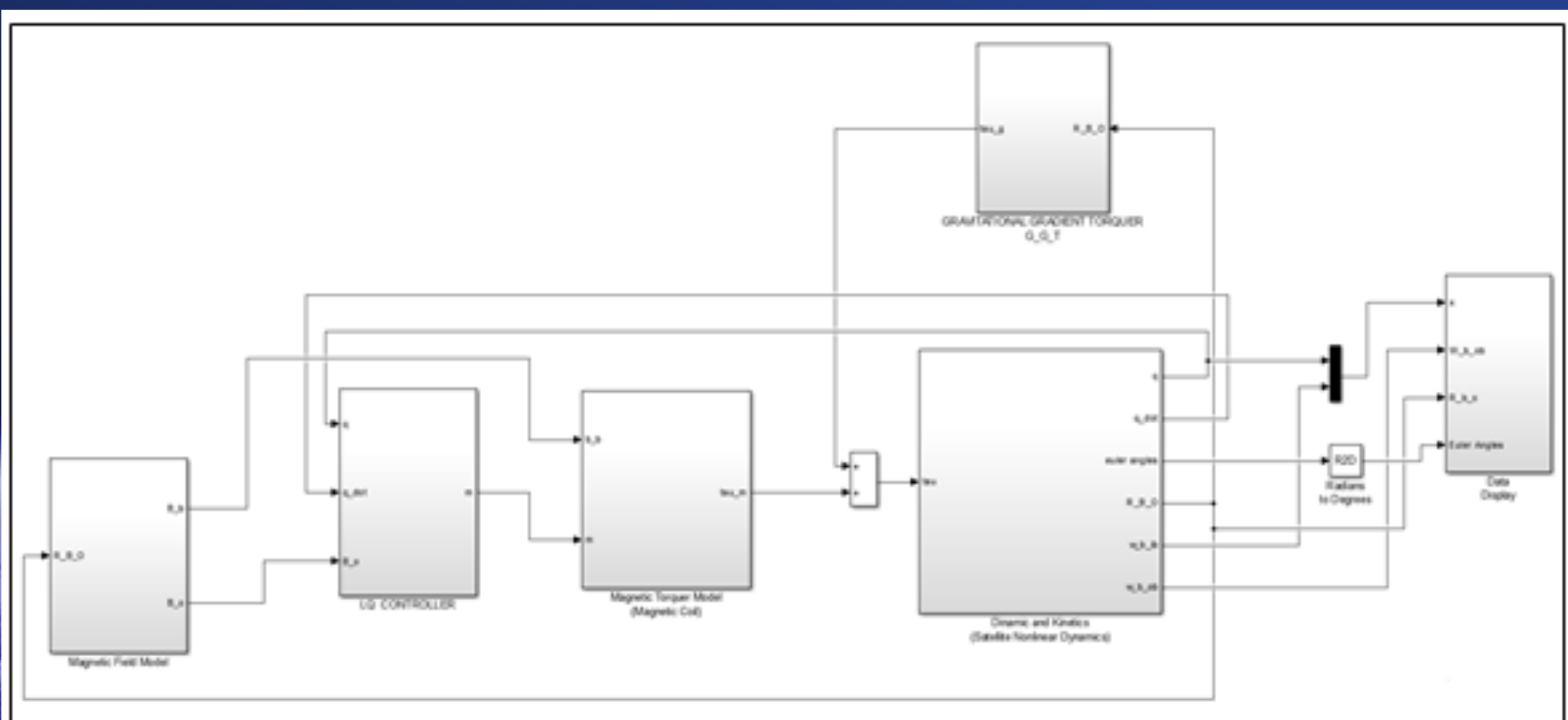
*QY-1 after damping mode, Capture mode working.*



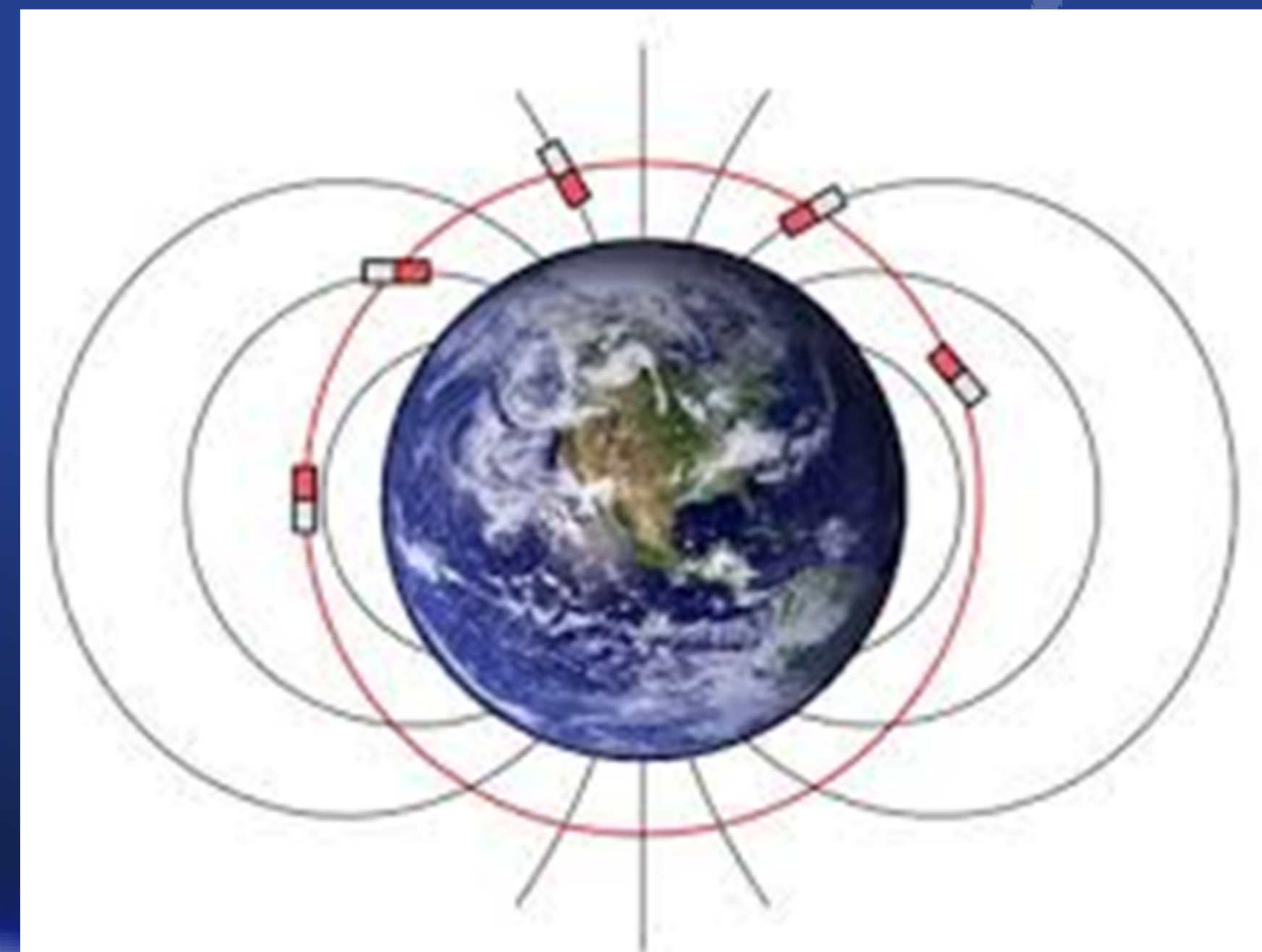
**Magnetorquer**



**Spacecraft Body-Axis Definition**  
 X-Axis - Direction of Travel  
 Y-Axis - Resultant Direction  
 Z-Axis - Direction of Earth



**Simulink Technical diagram with Magnetic Torquers for QY-1.**



*Effects of magnetic field on a spacecraft*

