Coordinate System

Global Frame

The global frame is such that the x,y origin is at the pinger, and z=0 is at the surface. Positive z is up. Yaw is relative to magnetic north. Pitch and Roll are relative to the gravity vector.

Axes

- X+ front of the sub
- Y+ left of the sub
- Z+ above the sub

Rotations

• Yaw+ - Counterclockwise around Z+ axis (this is opposite of magnetic) (Yaw **Left** positive)

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- Roll+ Counterclockwise around X+ axis (Roll **Right** is positive)
- Pitch+ Counterclockwise around Y+ axis (Pitch **Down** is positive)

From:

https://robosub.eecs.wsu.edu/wiki/ - Palouse RoboSub Technical Documentation

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Last update: 2017/01/20 16:02