3 Jan, 2012

1. **Polars, Sailboat Model, etc.**
   1. **Activities completed:**
      1. **Found a fixed a bug involving the last leg of a voyage. The Lat/Lng was not being updated for time steps that occurred within the last leg.**
      2. **Cleaned up several bugs and checked out the algorithm for determining the path that a sailboat would take when faced with a current. I checked this by changing the current’s speed to see how the path would be affected. In particular, a strong enough current can allow the boat to go straight into the wind, and I wanted my program to be able to do that.**
      3. **Ironed out the motion model with Art Allen. We’re putting some more parameters in to effect Art’s notion of “bias off of rhumbline.” I haven’t done that, but have agreed to the model with Art and will implement that soon.**
   2. **Travel completed:**
      1. **None**
   3. **Upcoming activities scheduled:**
      1. **Finish implementing the use of Art’s new parameters. I hope that my SAROPS work will have the dynamic AOI in place. After that, I’ll start to use the lessons learned from that to query the EDS for pre-distress sailboat motion. Right now, I debugged the motion model using constant (no EDS lookup) winds and currents.**
   4. **Travel planned:**
      1. **None**