1 Dec, 2011

1. **Polars, Sailboat Model, etc.**
   1. **Activities completed:**
      1. **Wrote the code that reads in the Polars.**
      2. **Wrote the initial sailboat voyage I have a few bugs yet, but I think I’ll finish this initial stage up in December, complete with a GUI. This will complete the sailboat part of the contract EXCEPT for the following:**
         1. **Must review (and probably revise) the parameters that I had to introduce (mean time on leg with exponential distribution, frequency of environment checks, closeness to destination that defines arrival, etc.)**
         2. **Must use the environment during the pre-distress stage. Right now I’m doing that, but I’m only debugging with constant winds and currents and zero standard deviations. I’ll roll off of this project and work a similar issue on SAROPS (there it’s dubbed “Smart AOI”) and then come back to this one.**
         3. **Must figure out how to handle uncertainties in the environment for the (sub-steps)**
         4. **Must introduce land recognition.**
         5. **Must deal with winds that are too low or too high.**
         6. **Deal with potential performance problems.**
      3. **What I accomplished in this stage was almost complete:**
         1. **Add a parameter “polars” to the voyage scenario and get the corresponding polars from a static spreadsheet that Jim Teeters gave me**
         2. **Create a single particle, and have it tack its way through the voyage’s route (assuming winds during the route are between the minimum and maximum)**
         3. **Adjust my display to find and verify that this is working.**

**I say “almost” because I still have some bugs that are evident from the display.**

* 1. **Travel completed:**
     1. **None**
  2. **Upcoming activities scheduled:**
     1. **Finish the initial phase of the sailboat scenario.**
  3. **Travel planned:**
     1. **None**