25 Jul, 2014

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**Progress Report – 1 Jul 2014 – 25 Jul 2014**

Contract Number: HSHQDC-06-D-00022

Contract Number 7500097279

Order Number: HSCG23-07-J-TED150

Task Order – Performance Work Statement (PWS) 1.12

Attachments: (1) SAROPS subcontractor financial reports

1. **SAROPS Systems Component Services Tasks**
   1. **Land concerns again arose. I was asked if there could be a quick way of modifying the land files. I thought about this and came up with 2 ways, both of which I will discuss at Aug IPR. They involved some refactoring of code and testing. I made up a test case: Northwest Oahu. I loaded a NOAA chart which showed the shore to be south of GSHHS’ shore. Using ArcMap, the info feature, and the chart, I captured in text a better set of points than GSHHS. These I put into an xml and fed it and the rest of the raw data for building the data jar files, to my build program. The result is that where I “corrected” the NW shore of Oahu, it was corrected in the final land files.**
   2. **The second approach is not coded up, but it would use the same code. The corrections could be supplied to me on an individual case’s xml, and I would simply correct the small set of polygons that I extract when I run a case. This correction would be effected just as the big file is, and the case’s land shpFiles would reflect these corrections.**
   3. **Rebuilding the Land jar files was a little tricky since I used Jul 1, 2014 GSHHS raw data and there was a bug in that. I found the bug, sent it to Paul Wessel of GSHHS, he acknowledge the problem, and I am now using a corrected version that will be available to the public on Aug. 1.**
   4. **A *lot* of planner work. I’m trying to smooth out the treatment of the different constraints. There are 3: The obvious one is overlap, but minimum track spacing and “PsCs” (a CS cannot have length bigger than 3 times the width) must be checked as well. Most code is in place to work this and I hope this improves Planner. This is where most of this month’s work was spent. Hope to have this running by this time next month.**
   5. **Answered a few questions about wind speed (I think ASA depicted wind arrows differently than Rob was expecting them), time step, and a question from Robert about why little ponds show up on the edge of the Great Lakes. These (especially the last one) required some investigation, but no code changes.**
   6. **Wrote up land slides for IPR.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke (New Contract) | Coding/Doc/Travel | 93.2 | 261.27 | 24350 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 42 |  | 24350 |
|  |  |  |  |  |