1 Sep, 2012

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**Progress Report – 1 Aug 2012 – 31 Aug 2012**

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. **Activities completed:**
      1. **Found and fixed very subtle bugs in geometry routines. For example, if an arc ends with a lower latitude than it started with, but its initial heading is north of east or west, there are problems. This doesn’t occur very frequently, but it does in the Great Lakes refinement that I’m working on.**
      2. **I finished the New York Harbor data set. This did not involve the above-mentioned bug (the offending condition never occurred) so it went smoothly after I found a similarly obscure bug. NY Harbor now has the missing Columbia River Islands. This is a little harder, and will never go into the off-the-shelf GSHHS, because these islands are inland of the GSHHS’ idea of the Columbia River. The Columbia and its tributaries are a combination of 3 data sets (GSHHS, NHD, and USGS). The lower Columbia, including the Willamette, is NHD, and the Snake and above are USGS. These must be processed and merged before the islands that Jack sent me can be inserted. Interesting note; these islands are actually in USGS, but not NHD, and the region that they are in is from NHD.**
      3. **The end result of this debugging is actually much faster code. The first step is to convert the raw GSHHS into cleaned up polygons. That has gone from about 36 hours to 2. The most difficult part of Sim’s code is also much cleaner now, with many redundancies removed, as well as “dead options” (parameters that are never being used) removed.**
      4. **Finished working on configuring Sim as a server. SAR School was having trouble with the default configuration. I used my own Demo Sim Web Server to try out new configuration values and we found one that seems to work pretty well at Sar School.**
      5. **Started to clean up a POS problem, but ended up simply explaining what was happening and that there was nothing for me to fix.**
   2. **Travel completed:**
   3. **Upcoming activities scheduled:**
   4. **Travel planned:**
      1. **None**
   5. **Concerns or recommendations:**

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| --- | --- | --- | --- | --- |
| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke | Coding/Doc/Travel | 171 | 248.93 | 42567 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 171 |  | 42567 |
|  |  |  |  |  |