06 Jul, 2015

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**Progress Report – 1 Jun 2015 – 30 Jun 2015**

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. **Responded to questions involving how solutions for the Srus are stored. This is different in the current version than it is in what would be an probably improved planner. The current version is “box-centric;” the box is specified and the path is derived. The improved version would be “path-centric;” the path is specified and the exclusion box would be derived. The latter allows different buffers (than ½ track spcing) and non-perfect boxes.**
2. **I think I wrapped up the IDL problem and gave ideas about how to test it. It’s difficult to test the 50-meter contour, which is what most SAROPS users and testers are concerned with. But it’s easier to see if the etopo is being correctly read if one compares GSHHS with the 0-meter contour. I believe Rob understands that and is satisfied that the bug is fixed.**
3. **Spent time validating the 5-minute rule with Jack. Explained how I’m implementing it, and produced output that made it easier to trace for a single particle. For a given particle, I list all of the legs, their CPAs (including the times of the CPAs), their PDs, and put an asterisk next to the ones that get kept. Jack and I then went through these by hand to determine if the correct ones were being kept. They were.**
4. **Had a problem with my library; Visual C++ was “optimizing out” some code that was necessary. This was happening in the release version. This “optimization” doesn’t help much and in fact, was disastrous in this case. So I re-did my installers to eliminate the “release version.” Jim wants the release version, so I went back and figured out how to turn the optimization off for all versions. The problem is that Visual C++ doesn’t understand that, because of JNI, that code can*not* be optimized away.**
5. **Much work with Doug Graham of NOAA on CUSP. Found some problems but am working through them.**
6. **Another apparent zero-sweep width problem, but it was easy to fix.**
7. **A Nan problem that was not easy to fix because the correct response really is “not-a-number.” Discussed this and will leave it at Nan.**
8. **Participated in Mini-IPR.**
9. **Jun 4th build has fixes plus slipper/sticky/proportion of slippery-sticky in.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke (New Contract) | Coding/Doc/Travel | 90 | 282 | 25380 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 90 |  | 25380 |
|  |  |  |  |  |