3 Jan, 2017

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**Progress Report – 1 Dec 2016 – 31 Dec 2016**

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. **There are 5 phases to the land processing sausage maker. Each of them uses 2 fundamental operations; merging loops, and nesting loops. The 2 fundamentals are now done, and the first 2 phases are done.**
2. **In addition, the even lower-level problems, finding the nearest shoreline, etc., that I wrote about last month, have faster solutions with simpler code. All of this required fairly extensive profiling for memory issues, cpu issues, and a few deadlocks. I used a plugin to my IDE called YourKit. It provides a very nice and easy to use wrapper to the profiler that comes with Java.**
3. **There were some brushfires that I put out. a. A 2-scenario bug where the weights were not being normalized across scenarios, but rather normalized within the scenario. b. A reverse-drift issue in which I was reporting the “first time” a particle left the AOI. For reverse drift, I should report the ‘last’ time that it was outside of the AOI (with RD, sometimes I feel as if I’m Alice looking through the looking glass). c. A performance issue which was fixed in spades; slippery land works faster now than before. d. A crash on bravo runs, or any run with frozen patterns of a particular type. e. The interaction between Judy and me for both LatestSeed and Martian cases are now working better.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke | Coding/Doc/Travel | 169 | -- | -- |
|  |  |  |  |  |
| **Totals** |  | 169 |  |  |
|  |  |  |  |  |