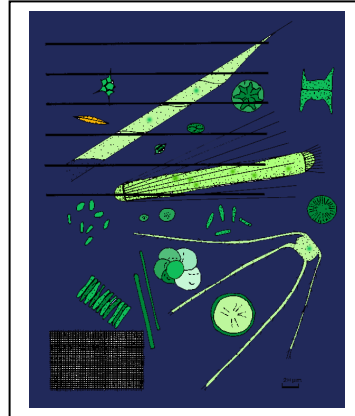July 26, 2014



TO**: QLG Virtual Team**
(Steve Kenyon, GPS Indie, 2
NASA MODIS Coordinators

Topic: **QLG USDA NIFA SBIR PHASE I Update & Next Step Forward Thinking.**

==**Key Question**==:   I have now identified the geographic location of the Virginia Based Waterman/Shell Fish Aquaculture Farms by County, and by geographic location (Courtesy State of Virginia Agency called DSS (Division of Shell Fish Sanitation).

Virginia has the largest Hard Clam Shell Fish of any states in USA, creating about 1000 direct employment in this industry.  The Oyster Industry is smaller but is growing.   Based on my DSS maps for Shell Fish Aquaculture, all of the near urban rivers and tributaries are condemned for Shell Fish.  But about 7 counties in Virginia still has "open" coastal or estuarial locations where all of these marine aquaculture farms, both clams and oysters are located.

What we need to do is using perhaps GPS Ground Station geographic location (an affordable GPS Antenna plus Receiving Station) at each of these approximately 20 locations, receive NASA Aqua Modis Instrument images & data that we can access easy enough (select those which we want for each location such as temperature, chlorophyll A, turbidity, and few other sub topics for that particular GPS ground station location.

Once downloaded, then using our cloud based internet servers provided to us by our internet service host, Jaguarpc.com ,  we can figure out how best to analyze, monitor and detect this information n a way that is value added to our Waterman/Aquaculture Farmers in Virginia.

I have identified a "GPS Resource" available I think to us likely via the U.S. Navigation Center (U.S. Dept of  Homeland Security & Operated by U.S. Coastguard) as follows: WEB: http://www.navcen.uscg.gov/

**This is a slightly advanced form of GPS, applied to coastal transportation use primarily called Differential Global Positioning System** (DGPS) or Maritime Differential GPS (MDGPS), (See Wikipedia on DGPS).

==**Question For your Thoughtful Comments**==: ==*What specific enquiry topics I should include to see if MDGPS can be used for our application in a way that will make possible GPS linked NASA MODIS instrument images or data for this application & 10 Virginia geography of choice?  Comments?*==
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