

Ryan Chouest daily data transmission and report

Period covered: 14.00hrs 06/17/2010-17.00hrs 06/18/2010

0 - Nautical miles covered

Vessel science party:

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Cruise notes:

Since 1400 hrs 06/17/2010 we have continued fitting out the new jib crane and block, 150 m hose, reel, and testing new nitrile coated hose with the Fluorometer sensor.

Science results and preliminary interpretation:

We have spent this time in port, no new fluorometer readings to discuss.

Planned route for cruise 4:

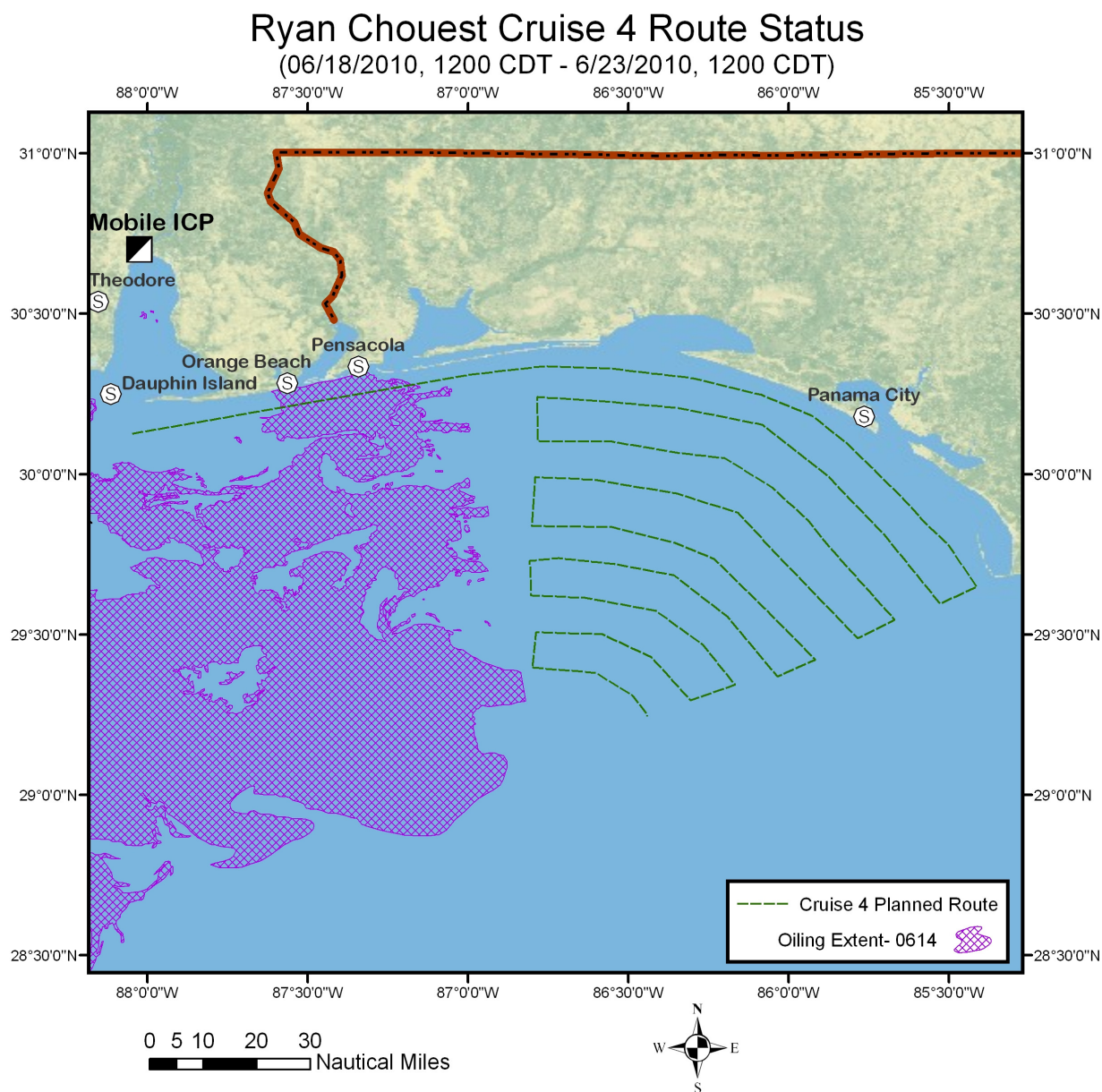


Figure 1: Planned course plotted for Cruise 4. Purple shaded area represents outline extent of the slick from 06/14 ERMA composite.

Vessel science operations:

Operations have centered on ensuring the arrival and installation of the reel, hose, jib crane, and block (Figures 2-3). The proposed course for cruise 4 is plotted in Figure 1 above. We plan to perform vertical fluorometer casts approximately every 10 nautical miles or in areas of interest determined by real-time examination of the fluorometry data. However, we have not taken these before and the number of casts will depend on how long it takes to deploy and retrieve each cast.

A short line of the new nitrile hose was tested for hydrocarbon contamination by running seawater through the hose and then through the hydrocarbon sensor array (HSA, Figure 2). Initial test results show no contaminants.

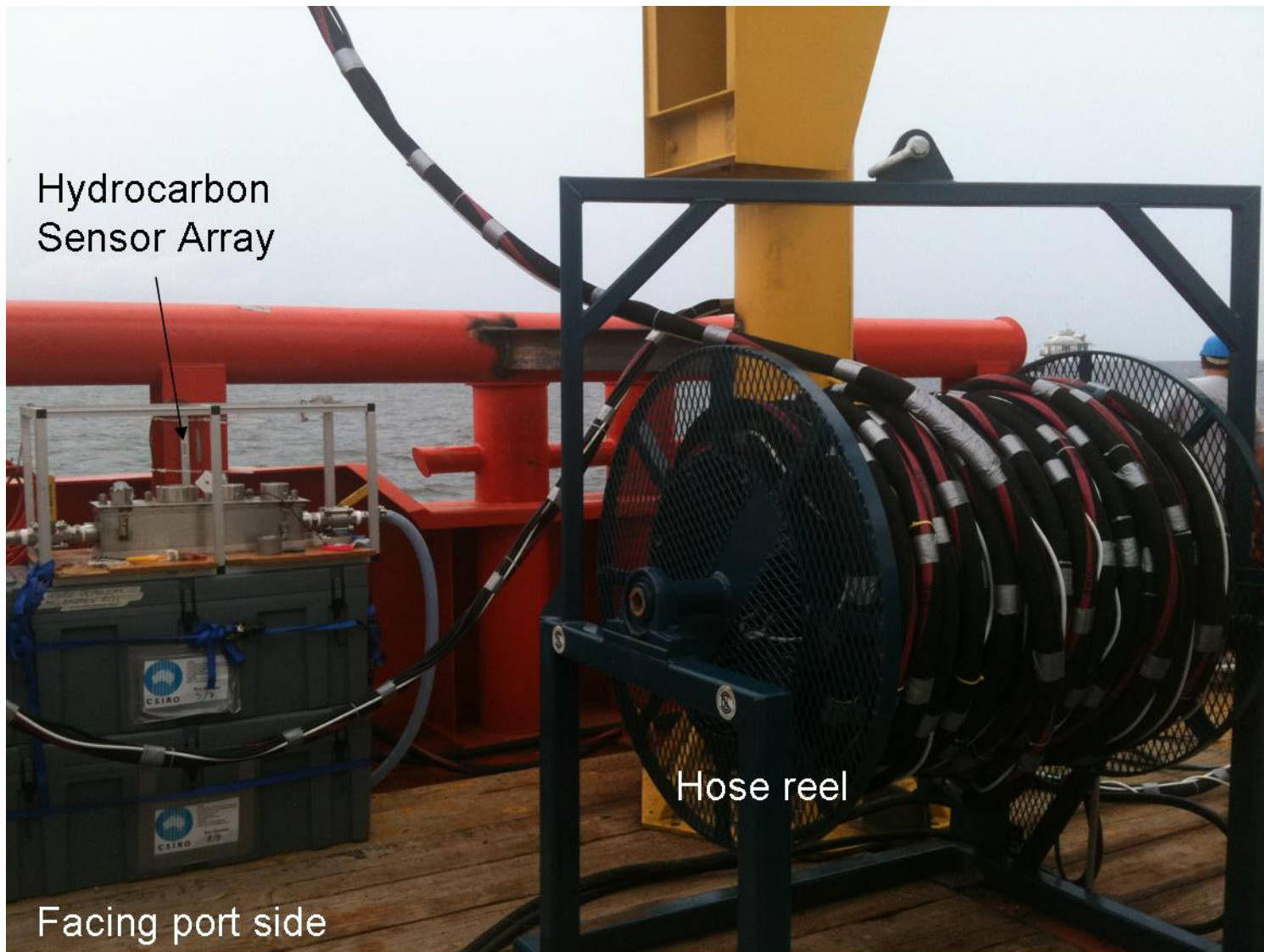


Figure 2. Wired reel spooled with new hose that is coated on the inside with nitrile. To the left is the hydrocarbon sensor array.

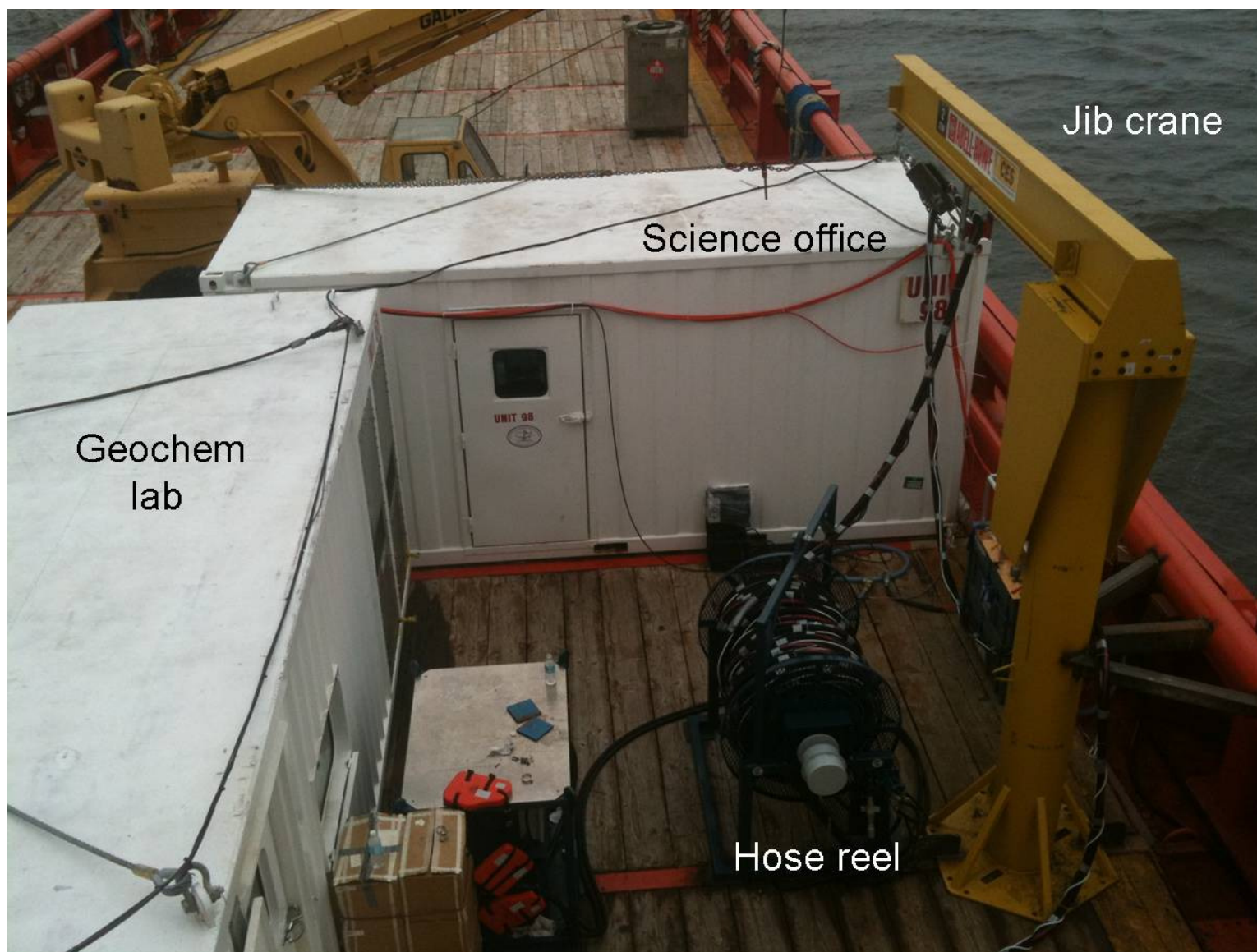


Figure 3. Photo showing the reel and jib crane and their orientation on the port side relative to the science lab and office container.

Problems/operational issues:

The internet problem was solved by purchasing a wireless ethernet router. Still need to resolve firewall access to the shared hard drive.

Planned activities for next 24 hours:

We are sailing on the new course and will deploy the HSA system beginning at Pensacola, FL. Until then, we will test the new system shown in Figures 2 and 3.