Ryan Chouest daily data transmission and report

Period covered: 2231hrs 06/24/2010-1323hrs 06/25/2010

123.329 - Nautical miles covered

Vessel science party:

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Cruise notes:

We are sailing on the cruise trajectory shown in Figure 1.

Science results and preliminary interpretation:

Fluorometry results

Fluorometry measurements for all three sensors show low to medium inferred hydrocarbon concentrations and are generally higher offshore of Mobile Bay and Pensacola (Figures 2-4). However, values decrease towards Panama City, which is consistent with measurements along this track in Cruise 4. The Trios sensor shows three regions of higher medium-level inferred hydrocarbon concentrations beginning at 30º 15'N 87 20'W and eastwards ~30º 20'N 86 45'W (Figure 3). The Contros sensor shows the least variability of the three sensors along this track.

Surface Observations

Orange mousse and red-orange emulsions were observed offshore of Pensacola and Orange Beach. These observations are consistent with positions noted in approximately the same locations as shown in the Cruise 4 Summary Report. No photographs were taken for the time frame of this report.

Planned versus actual route taken for cruise 5:

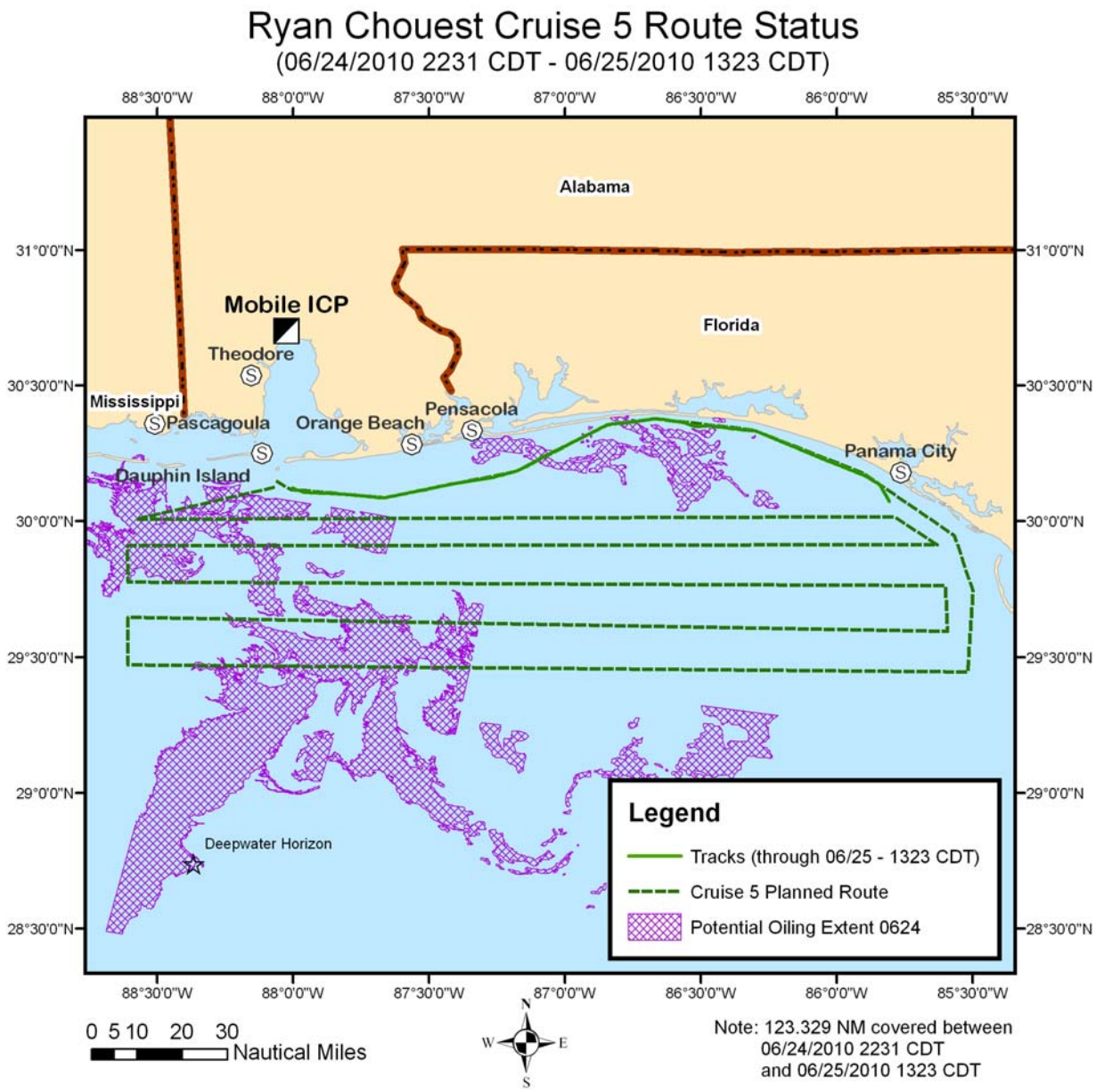

Figure 1: Planned versus actual route course plotted between 06/24/2010 –06/25/2010. Purple shaded area represents outline extent of the slick from 06/24 ERMA composite.

Vessel science operations:

We logged fluorometer measurements and observed sea-surface conditions. We continue to perform liquid-liquid extractions on seawater samples and analyze with the GCMS.

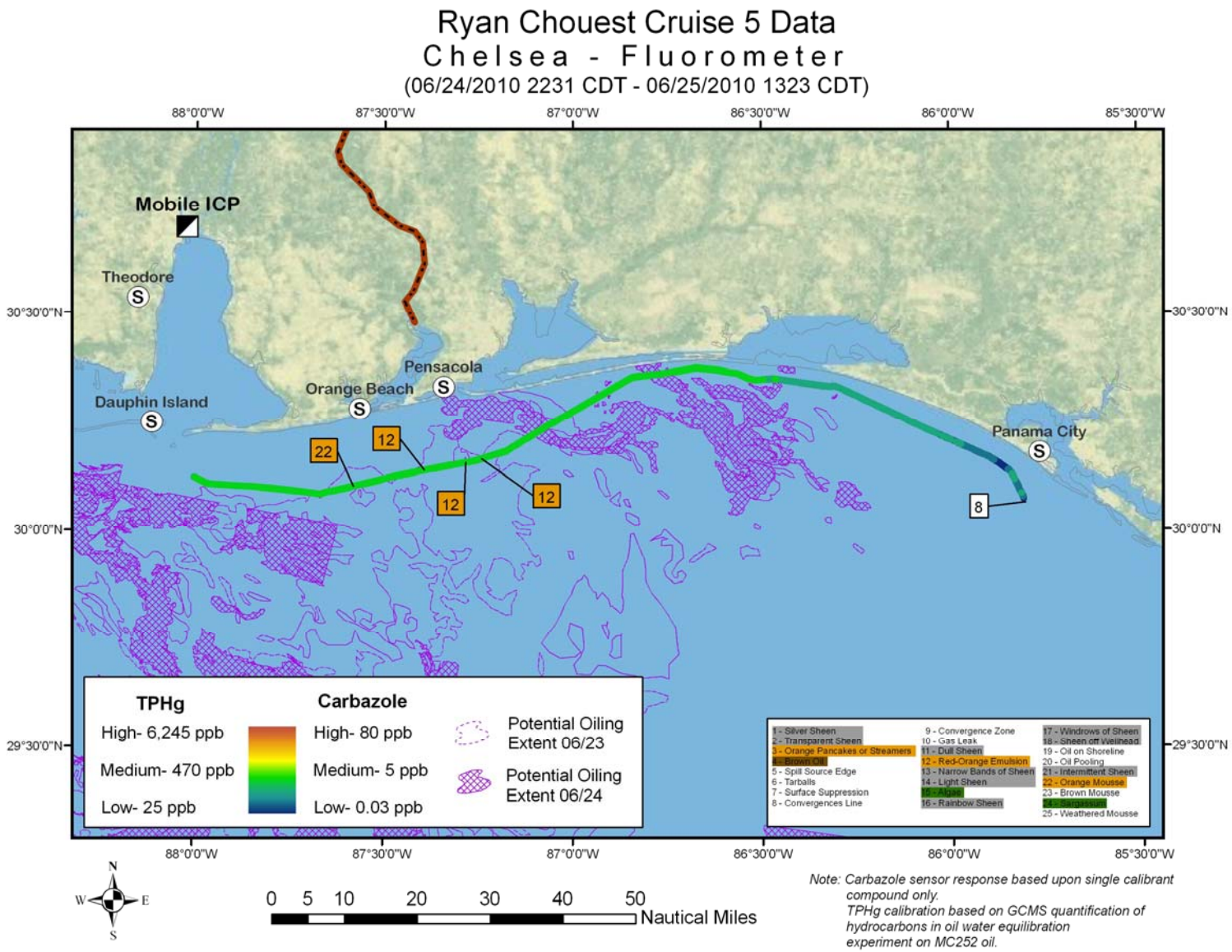

Figure 2. Chelsea fluorometer results plotted with location on cruise 5 track. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems.

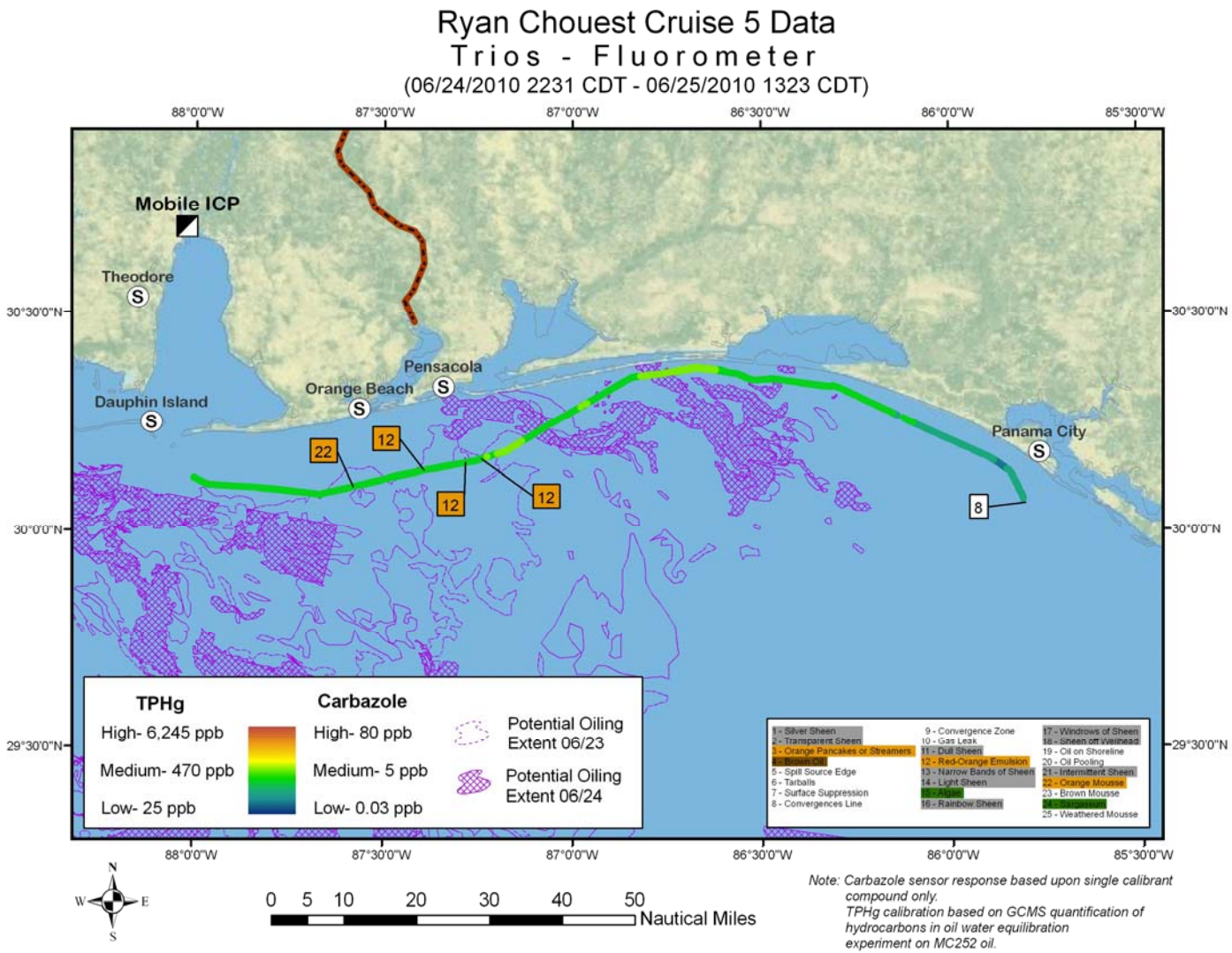

Figure 3. Trios fluorometer results plotted with location on cruise 5 track. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems.

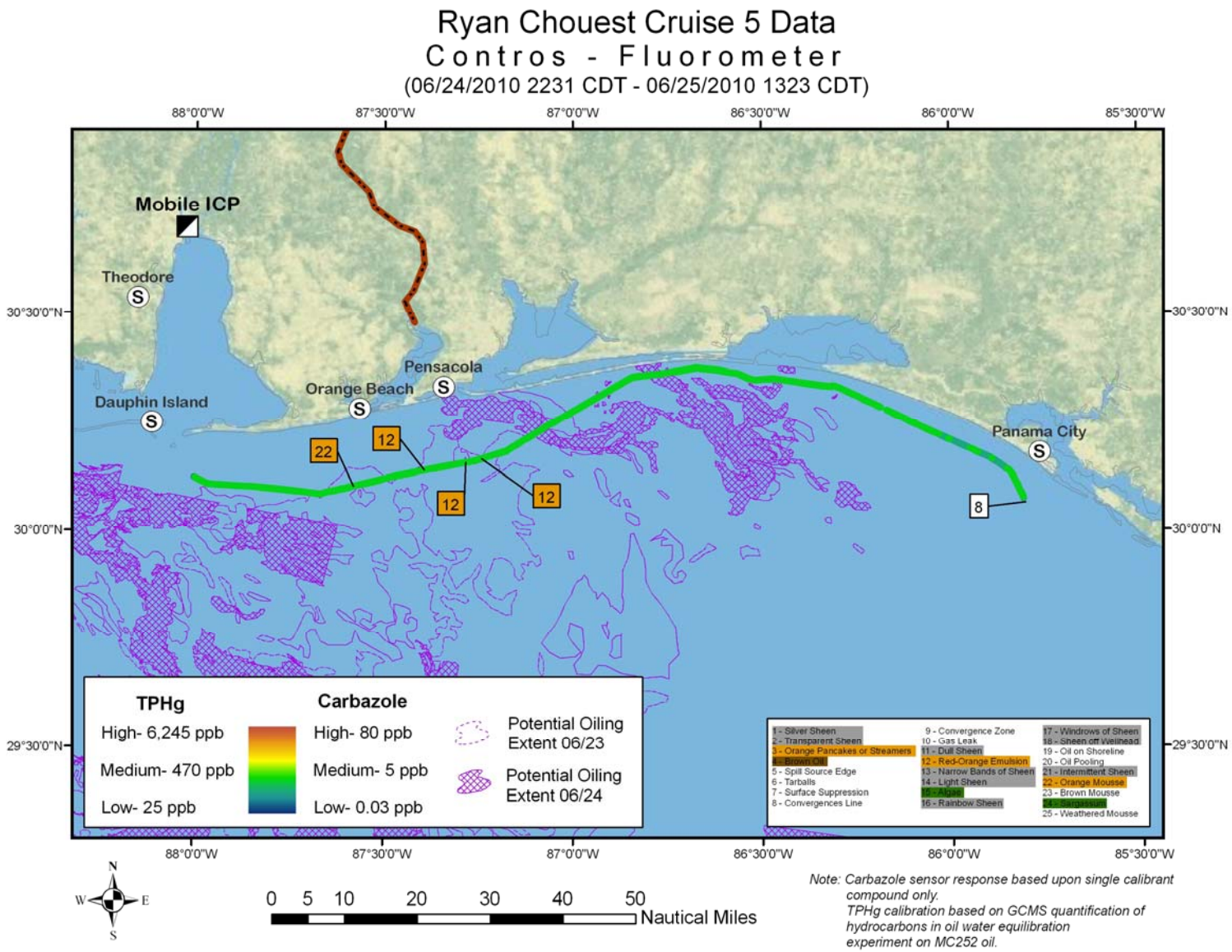

Figure 4. Contros fluorometer results plotted with location on cruise 5 track. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems.

Problems/operational issues:

(Includes items up to report submission time)

There are no problems at this time. The 150m hose was unreeled and the electrical cable was attached and then respooled. The new equipment will ready for deployment once the epoxy sets, which should be by tomorrow afternoon.

Planned activities for next 24 hours:

We are sailing the planned cruise track.

Full Crew List:

William A. Smith	MASTER
Demarco Jones	A/B
Elijah Benjamin	O/S RIG
Jon Cheney	Capt.
Brian Corley	Mate
Eduardo Zepeda	A/B
Mark Harmon	A/B
Samuel Nwosu	QMED
Craig Lyons	CHIEF ENG.
Emma Crooke	CSIRO
Xiubin Qi	CSIRO
Stephane Armand	CSIRO
David Fuentes	CSIRO
Andrew Ross	CSIRO
Lawrence Febo	BP
Guilherme De Almeida	Entrix
Brian Harmon	C&C
Greg Richard	C&C
Roderick Baker	OS/COOK
Brandon Wilson	C-PORT
Ben Autin	C-PORT