
August 23rd | 2010

Ryan Chouest daily data transmission and report

Period covered: 1103 hrs 08/22/2010 – 1333 hrs 08/23/2010

171.505 - Nautical miles covered

Vessel science party:

Xiubin Qi (Xiubin.Qi@csiro.au), Stephane Armand (Stephane.Armand@csiro.au), Andy Revill (Andy.Revill@csiro.au), Charlotte Stalvies (Charlotte.Stalvies@csiro.au), Lawrence Febo (Lawrence.Febo@bp.com) Guilherme de Almeida (gdealmeida@entrix.com), Tim MacEwan (tem@cctechnol.com), Brett Bundick (bbundick@cctechnol.com), David Duplechain (david.duplechain@cctechnol.com), Bobby Patrick (rdpatrick@cctechnol.com)

Contact details:

+ 1 337 761 9830 – Sat phone
+ 1 337-761-9830 – Broadband phone ship office 1
+ 1 337-761-9827 – Broadband phone ship office 2
+ 1 337-761-9826 - Broadband phone ship bridge

Cruise notes:

The *Ryan Chouest* completed the planned cruise 12 route and headed towards Theodore, continuing the echo sounder survey and the underway fluorometry pump system (Figure 1).

Science results and preliminary interpretation:

Fluorometry results

The Chelsea and Trios sensors indicate baseline to very low levels of inferred hydrocarbons concentrations through the reporting period (Figures 2 and 3). Both sensors also show slightly elevated readings along the transect track from Port Fourchon to the southwest of the mouth of the Mississippi River (Figure 3). As previously discussed, the Contros data are not shown as the instrument needs servicing as the lamp reached the end of its useful life. We await a spare Contros sensor from the manufacturer.

Surface Observations

There are no new surface observations to report.

EK-60 Echosounder results

No acoustical contacts were observed during this report period.

Vertical Casts

No vertical fluorometry/CTD casts were taken during this report period.

Planned route for cruise 12:

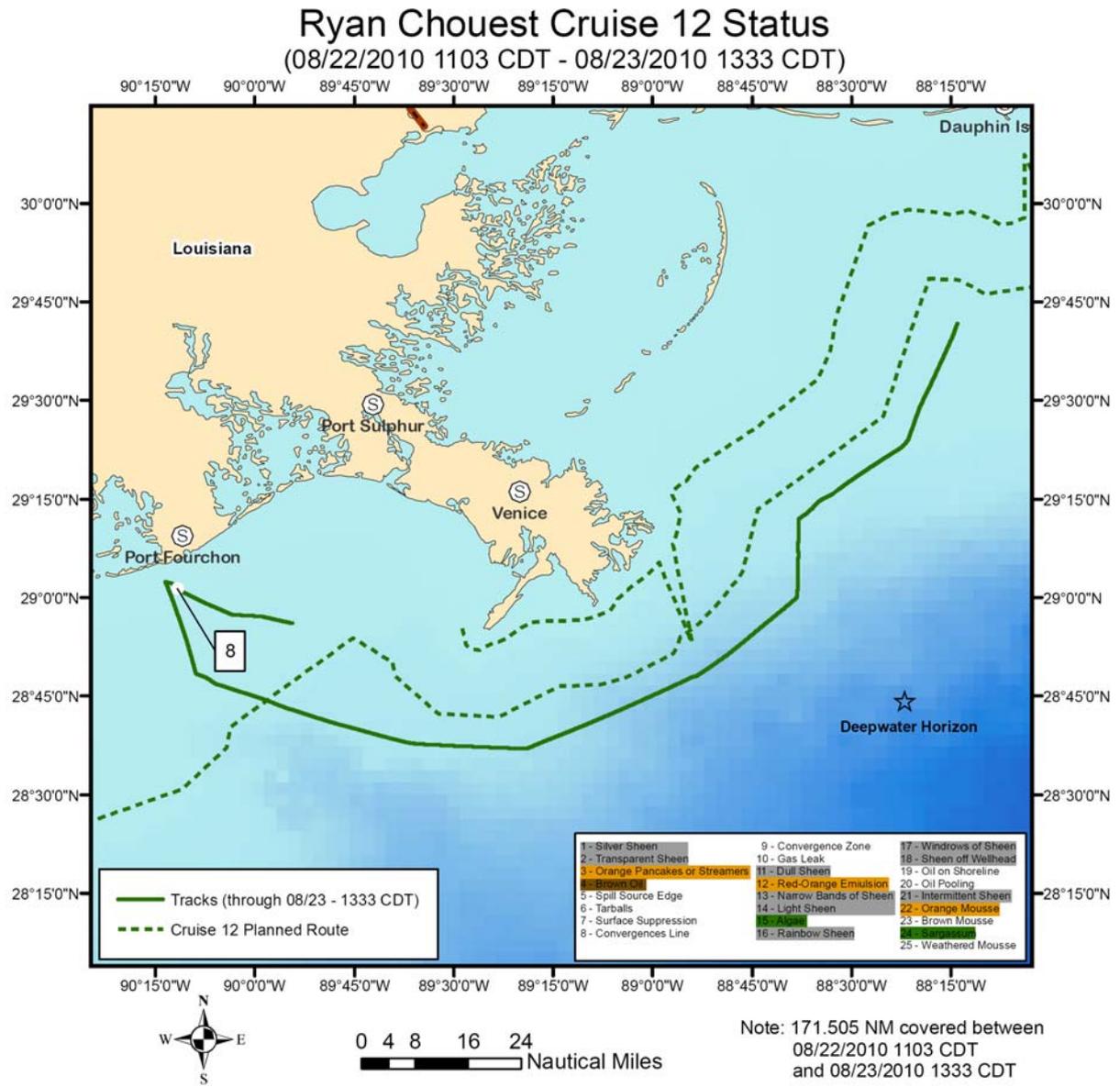


Figure 1: Planned route for cruise 12 versus the actual route plotted between 08/22/2010 – 08/23/2010.

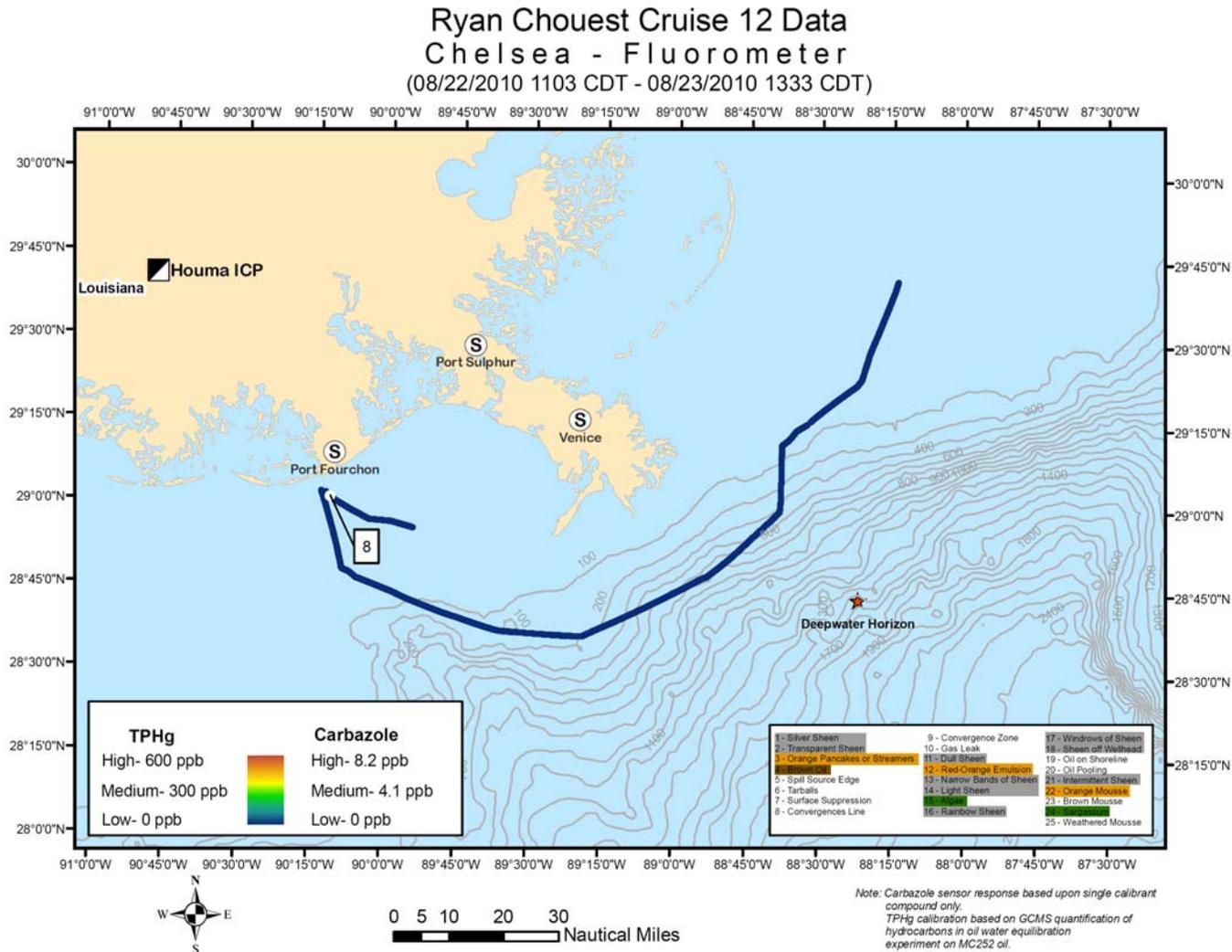


Figure 2. Chelsea fluorometer results plotted with location on cruise track 12. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems. Purple lines represent depth contours of 100 m intervals.

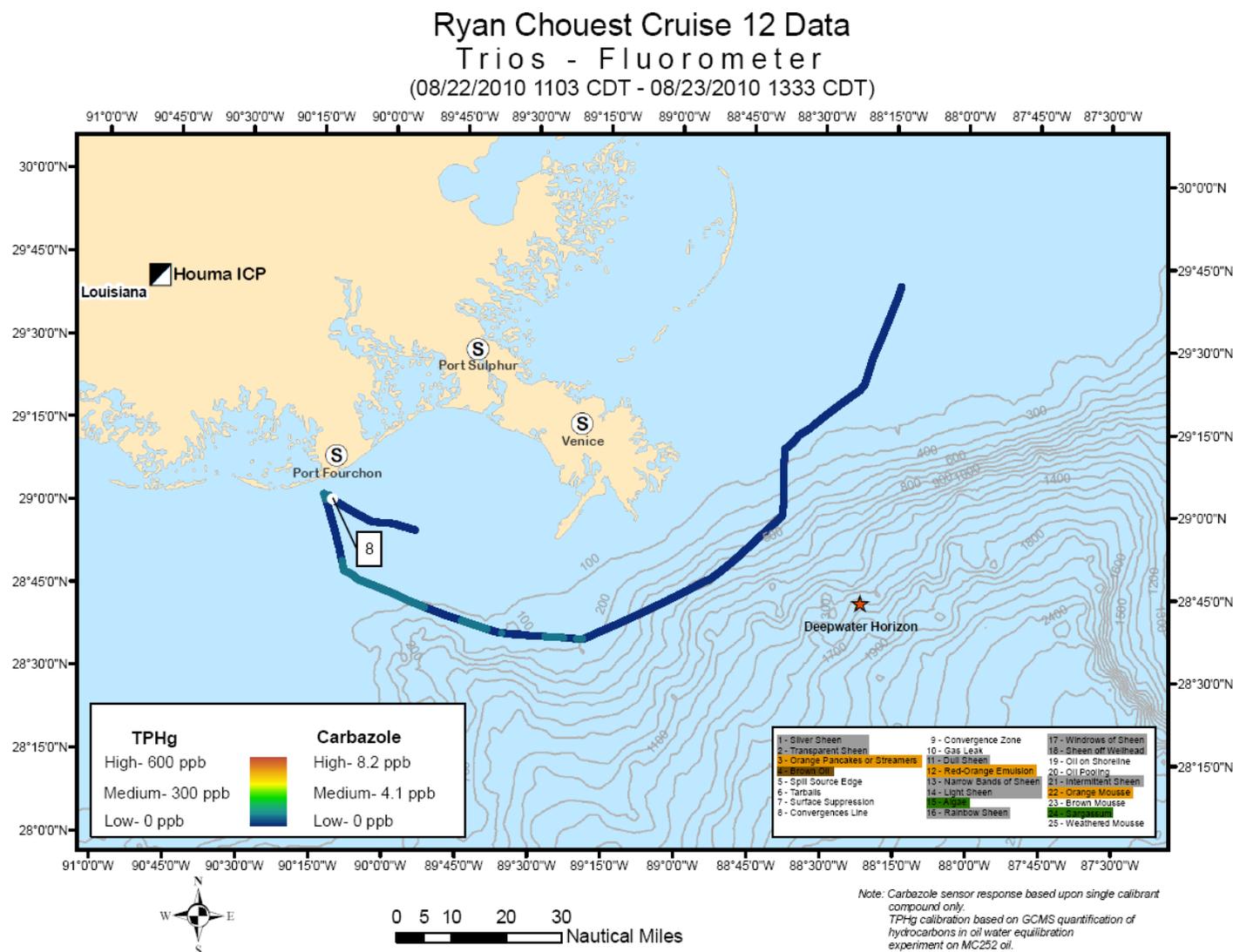


Figure 3. Trios fluorometer results plotted with location on cruise track 12. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems. Purple lines represent depth contours of 100 m intervals.

Science Operations:

Fluorometer measurements were logged for the majority of the period and observations of sea-surface conditions were made throughout. The EK-60 echo sounder is continuously collecting data to evaluate the seabed and water column for possible seeps. We continue to analyse water samples using the GCMS.

Problems/operational issues:

No new problems have occurred.

Selected Photographs:

No photographs were taken during the reporting period.

Planned activities for next 24 hours:

The *Ryan Chouest* is returning to Theodore to prepare for the arrival of wave gliders on Wednesday.

Full Crew List:

William A. Smith	MASTER	Brian Corley	Mate
Craig Lyons	ENG	Robert Thompson	ENG
Elijah Benjamin	O/S	Arthur Triggs	O/S
Roderick Baker	OS/Cook	Patrick Anderson	A/B
Kile Blunt	A/B/Cook	Guilherme de Almeida	Entrix
Lawrence Febo	BP	Stephane Armand	CSIRO
Xiubin Qi	CSIRO	Charlotte Stalvies	CSIRO
Andy Revill	CSIRO	Bobby Patrick	C&C
Tim MacEwan	C&C	Ben Autin	C-Port
Brett Bundick	C&C	Braden Wilson	C-Port
David Duplechain	C&C		

Important Disclaimer

The information contained in this report comprises general statements based on scientific research. The reader is advised and needs to be aware that such information may be incomplete and represents interim results only, which require further analysis. No reliance or actions must therefore be made on that information without seeking further expert professional and technical advice.