

H11671

NOAA FORM 76-35A U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE
VERTICAL AND HORIZONTAL CONTROL REPORT
Type of Survey: <u>Hydrographic Multibeam & 200% Sidescan</u>
Project No. : <u>OPR-K387-KR-07</u>
Registry Nos. : <u>H11669, H11670, H11671</u>
LOCALITY
State: <u>Louisiana</u>
General Locality: <u>Gulf of Mexico</u>
<u>2009</u>
CHIEF OF PARTY <u>Joseph Burke</u>
LIBRARY & ARCHIVES
DATE: _____

**VERTICAL AND HORIZONTAL CONTROL
REPORT TITLE SHEET**

State: Louisiana
General Locality: Gulf of Mexico
Project Number: OPR-K387-KR-07
Vessels: R/V Emma McCall, M/V Captain Blake, M/V C-Ghost, M/V C-Wolf
Chiefs of Party: Scott Croft, Joe Burke

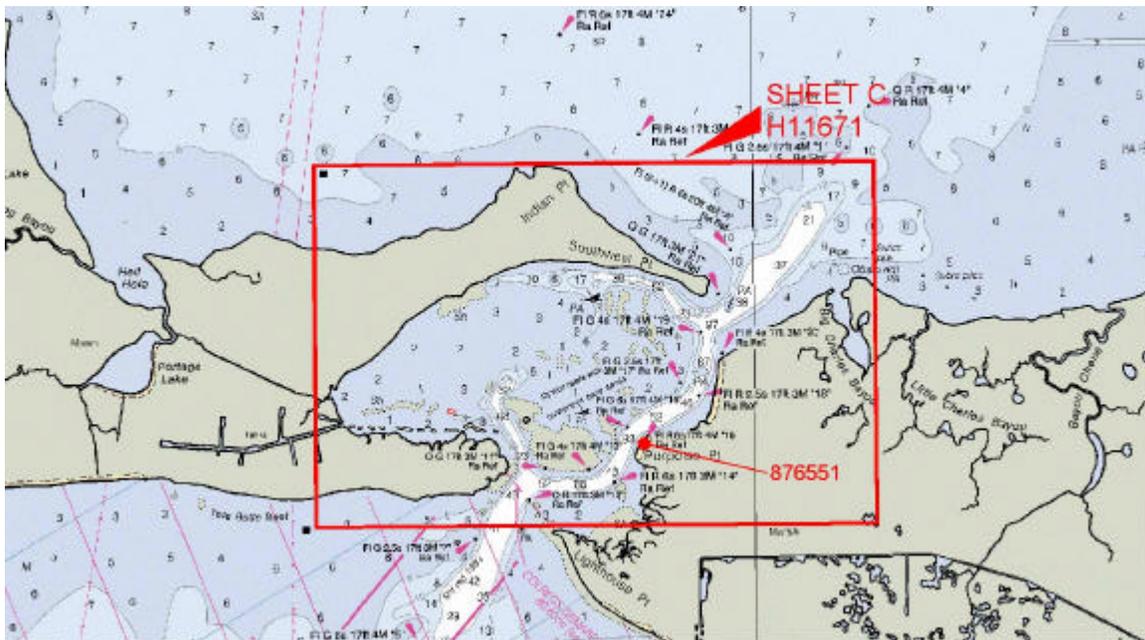
	Survey Dates	Vessel	SOW Date	Party Chief
H11669	July 5, 2007 - August 20, 2007	<i>Inez McCall</i> <i>Captain Blake</i> <i>C-Ghost</i> <i>C-Wolf</i>	22-Feb-07	Burke
H11670	August 3, 2007 - August 20, 2008	<i>Inez McCall</i> <i>Captain Blake</i> <i>C-Ghost</i> <i>C-Wolf</i>	22-Feb-07	Burke
H11671	July 7, 2007 - August 21, 2008	<i>C-Ghost</i> <i>C-Wolf</i>	22-Feb-07	Burke

TABLE OF CONTENTS

Vertical Control.....	1
Horizontal Control.....	2

A. Vertical Control

C&C Technologies established a subordinate station (876551) in Southwest Pass on the red navigation marker #16, at $29^{\circ}35'25.681''\text{N}$, $92^{\circ}01'06.618''\text{W}$. Tidal data was collected from July 11, 2007 through August 11, 2008. None of the data collected by this gauge was applied to the survey soundings.



All vertical tidal correctors applied to data collected during this survey were taken from the NOAA CO-OPS website. Height, time and zoning corrections provided by CO-Ops were applied with no changes.

All data was collected in UTC time.

Vertical correctors were applied to all accepted bathymetric data within Caris.

No unusual tidal events were noted during this survey, and no alterations to the NOAA provided tidal zoning was required.

No benchmark surveys were conducted by C&C Technologies in support of this survey.

Tide gauge 8765551 is located in a remote area, and three benchmarks were set nearby on Marsh Island when the gauge was established. Information regarding these benchmarks will be submitted to CO-OPs along with all data collected with this gauge.

B. Horizontal Control

No horizontal control field stations were established by C&C Technologies in support of this survey.

Multiple DGPS receivers collected horizontal positioning throughout the survey on all ships used during the collection of this survey. Following the collection of every survey line, navigation statistics comparing the position of these multiple antennas were analyzed. Any apparent error in position resulted in a rerun of the line.

LETTER OF APPROVAL

Vertical and Horizontal Control Report

OPR-K387-KR

This report is respectfully submitted.

Field operations contributing to the accomplishment of this survey were conducted under my direct supervision between the dates of July 2007 – August 2008 with frequent personal checks of progress and adequacy. This report has been closely reviewed and is considered complete and adequate as per the Statement of Work.

Joseph Burke
Chief of Party
C&C Technologies
March 2009