

S-T909-USN-08

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

**HORIZONTAL AND VERTICAL
CONTROL REPORT**

Type of Survey: **Navigable Area**

Registry Numbers: **H11843**

LOCALITY

State: Guam

General Locality: Navy Base Guam

Sub-locality: Inner and Outer Apra Harbor

2008

CHIEF OF PARTY
LTJG Stephen C Kuzirian, NOAA
LT Matthew Henigin, USN

LIBRARY & ARCHIVES

DATE

HYDROGRAPHIC TITLE SHEET

S-T909-USN-08

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State: **Guam**

General Locality: **Navy Base Guam**

Sub-Locality: **Inner and Outer Apra Harbor**

Scale: **1:10,000** Date of Survey: **29 March – 4 May 2008**

Instructions Dated: **12 March 2008** Project Number: **S-T909-USN-08**

Vessel: **USN Swamp Fox**

Chief of Party: **LTjg Stephen C Kuzirian**

Surveyed by: **United States Navy Fleet Survey Team**

Soundings by: **RESON 8125**

Graphic record scaled by: **N/A**

Graphic record checked by: **N/A**

Protracted by: **N/A** Automated Plot: **N/A**

Verification by: **Atlantic Hydrographic Branch Personnel**

Soundings in: **Meters at MLLW**

Remarks:
1) All Times are in UTC.
2) This is a Navigable Area Hydrographic Survey.
3) Projection is UTM Zone 55.

A. VERTICAL CONTROL

Vertical control for project S-T909-USN-08 is consistent with Letter Instructions as provided by Hydrographic Surveys Division and CO-OPS. This project includes Navigable Area surveys H11843.

A.1.1 WATER LEVEL OBSERVATION STATIONS

The primary water level observation station for project S-T909-USN-08 is the National Water Level Observation Network (NWLON) station located at Sumay Cove Marina (1630000). No installation, servicing, leveling, or maintenance of this station was required by Fleet Survey Team personnel

A.1.2 WATER LEVEL CORRECTORS

All tidal datum reduction procedures are consistent with the Letter Instructions and Tide Note. Datum reduction procedures are discussed in detail in the 2008 SWAMP FOX Data Acquisition and Processing Report.

All echosounder soundings were corrected to MLLW using observed water levels with tidal zoning supplied to SWAMP FOX by CO-OPS for project S-T909-USN-08. Verified water levels were applied to all echosounder data acquired by SWAMP FOX during survey operations for project S-T909-USN-08

A.1.3 Benchmark Positioning Procedures

Positioning of tidal benchmarks was not required for project S-T909-USN-08..

B. Horizontal Control

All horizontal control methods, techniques, and procedures for project S-T909-USN-08 are adequately described in the 2008 SWAMP FOX Data Acquisition and Processing Report and the Descriptive Report for Navigable Area survey H11843. No horizontal control stations were established, serviced, or maintained by the field unit for project S-T909-USN-08.

Table 1 – Times of Hydrography

2008_094	00:38:30	23:40:20
2008_095	00:05:00	23:59:56
2008_096	00:00:04	23:57:23
2008_097	00:24:20	23:59:56

2008_098	00:00:03	23:59:56
2008_099	00:00:03	23:52:59
2008_100	00:07:16	23:52:10
2008_101	00:18:14	23:59:56
2008_102	00:00:03	23:58:38
2008_103	00:01:09	05:41:06
2008_104	21:33:17	23:59:56
2008_105	00:00:03	23:38:29
2008_106	00:17:54	23:57:51
2008_107	00:01:37	23:57:55
2008_108	00:02:10	23:54:13
2008_109	00:24:52	23:59:55
2008_110	00:00:03	05:12:30
2008_111	22:45:56	23:59:56
2008_112	00:00:04	23:59:56
2008_113	00:00:03	23:38:22
2008_114	00:19:18	01:35:28
2008_115	20:45:22	23:59:09
2008_116	00:04:37	23:59:56
2008_117	00:00:05	03:33:55
2008_118	21:21:40	23:56:55
2008_119	00:02:28	23:56:33
2008_120	00:07:36	23:59:55
2008_121	00:00:03	23:59:29
2008_122	00:03:04	23:59:56
2008_123	00:00:04	23:59:56
2008_124	00:00:03	23:59:56
2008_125	00:00:03	04:56:08