

Second (2nd) Quarterly Report (January 2018)

for

Deepwater Atlantic Habitats II: Continued Atlantic Research and Exploration in Deepwater Ecosystems with Focus on Coral, Canyon and Seep Communities – “DEEP SEARCH - DEEP Sea Exploration to Advance Research on Coral/Canyon/Cold seep Habitats” Contract - M17PC00009

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The primary work accomplished and results achieved during the second quarter of this project are described below. Planned actions for the succeeding quarters and a summary of the post award meeting are also included as appendices.

The main activities in the previous quarter on this project were:

1. submit cruise report for first cruise,
2. submit bathymetric and oceanographic data from first cruise to database,
3. complete first outreach event,
4. participate in ADEON cruise #1,

Additional content

1. cumulative summary of the expenditures for this period
2. describe major accomplishments and results achieved during the quarter
3. brief discussion of the planned actions for the succeeding quarter and

Details of project activities are detailed below.

Cruise Report for First Cruise

The report for cruise 1 of DEEP SEARCH (PC17-05) was completed and one (1) digital copy of the cruise report was submitted to the Chief, DES/ COR/ CO/ NOAA Representative/ USGS Representative on 24 January 2018. The report is attached as **Appendix A**.

Bathymetric and Oceanographic Data to NOAA

Approximately five (5) TB of data were submitted to NOAA National Centers for Environmental Information, Stennis Space Center, collected on the first cruise of DEEP SEARCH. A summary of the files submitted is presented in **Appendix B**.

First Outreach Event

An Education Module was published on the Ocean Explorer website for the initial cruise onboard the NOAA ship *Pisces* using WHOI's *Sentry* AUV. The cruise occurred September 12, 2017 to September 25, 2017, mobilizing from Norfolk, Virginia.

<http://oceanexplorer.noaa.gov/explorations/17deepsearch/background/edu/lessons.html>

ADEON Cruise #1

A DEEP SEARCH representative, Sebastian Velez (partner with Sutton Lab at Nova Southeastern University), participated in a joint ADEON/DEEP SEARCH effort in November 2017 to ground-truth hydroacoustic sensing of deep-scattering layers (DSLs). During this cruise Mr. Velez assisted with the collection of midwater animals for quantitative characterization of the faunal composition of the DSLs in the ADEON study area. Mr. Velez also collected tissue samples for ongoing genetic and stable isotope analysis projects (Sutton Lab, Demopoulos Lab – USGS). A total of 24 midwater samples were collected, and from these, DEEP SEARCH collected 403 specimens for genetic and biochemical analysis. As an expert in deep-reef fish early life history stages, Mr Velez was able to identify several DEEP SEARCH species of interest (e.g., *Pronotoqrammus martinicensis* [rougtongue bass], *Centropyge* sp. [angelfish], and *Stephanolepis hispidus* [planehead filefish]) at sea (**Figure 1 a-c**). The remaining specimens will be identified fully by Dr. Sutton during a dedicated trip to Stony Brook University in 2018.

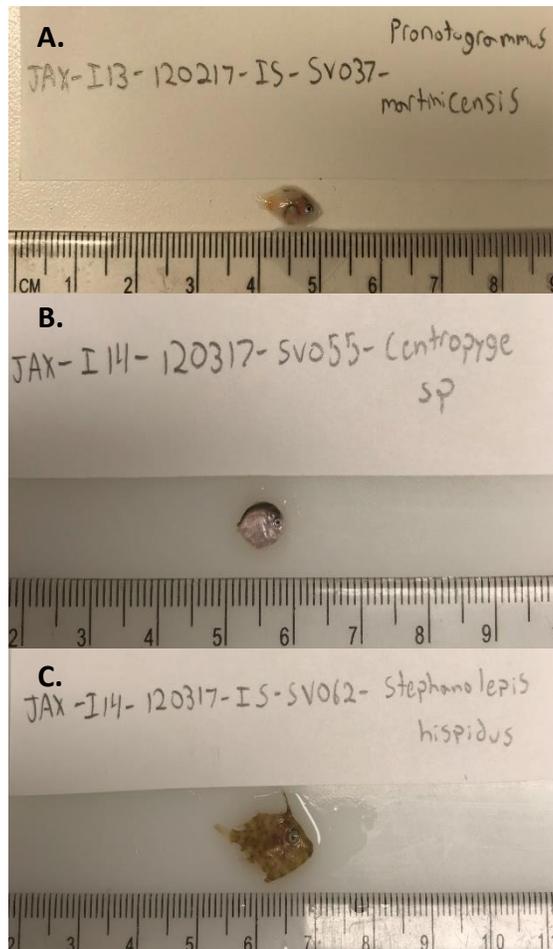


Figure 1. Reef fishes collected during the Nov 2017 ADEON cruise: A. rougtongue bass; B. angelfish; C. planehead filefish.

Cumulative Summary of Expenditures for Quarter

Laboratory - \$76,379, Science/Eng Subcontract - \$41,523; **Total - \$117,902**

Exceptional expenditures - none

Accomplishments for Quarter

- Begin plans for the 2nd and 3rd cruises in 2018
- Completed cruise report for 1st cruise
- Submitted OER FFO Cruise & Data Information form for NCEI
- Submitted first phase of bathymetric and oceanographic data from First Cruise (PC-17-05) to database
- Participated in ADEON cruise #1
- Begin analysis of data from cruise #1
- Begin to assemble predictive habitat models
- Complete outreach event through NOAA Ocean Explorer

Planned Actions for the Next Quarter

- Refine plans for the 2nd and 3rd cruises in 2018
- Submit cruise plan for 2nd cruise on Nancy Foster
- Ship lander materials and instruments
- Conduct 2nd cruise on the Nancy Foster (3/27 to 4/23)
- Review the data collected from Cruise 1
- Data Management: organizing data from Cruise 1 and 2 and adding to the program database.
- Access to program data among the project's Principal Investigators
- Complete preliminary analysis of pelagic samples from ADEON cruise
- Complete first draft of predictive habitat models
- Complete acoustic bioindicator processing code
-

Appendix A – Cruise Report - PC-17-05 (OMAO), 2017-004-FA (USGS)



NOAA Office of Ocean Exploration and Research Quick Look Report Coversheet

Project Title: Deep SEARCH: Deep Sea Exploration to Advance Research on Coral/Canyon/Cold seep Habitats

Report Date: 27 November 2017

Principal Investigator: Amanda Demopoulos

PI Organization: U.S. Geological Survey

<p>Results Table: Please check all that apply. Details: Please describe any discoveries in the discipline. Answers such as “possible awaiting data analysis” or “no apparent discoveries” are acceptable.</p>	
<p>Multidisciplinary <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Geology Biology</p>
<p>Coordinates of actual executed operations</p>	<p>UL:-77.4975 ,35.949; LR:-74.7481, 32.2875 Sentry tracklines from 3 dives in PC1705_SentryDivesTrks.shp</p>
<p>Bathymetric Mapping <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Multibeam (ME-70): 44.7 km of survey lines collected during transits to Sentry dive locations; Sentry (Reson 7125) 145 km (depth, backscatter)</p>
<p>Potential New Species Discovered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Analysis of imagery and sediment collections are underway.</p>
<p>Potential Habitat Range Extended <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Awaiting data analysis</p>
<p>Sub/ROV/AUV Dives</p>	<p>AUV:Sentry</p>

<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3 Dives: 454-“Kitty Hawk-Alternate-1”, 455-“Pea Island B”, 456-33 kms north of “Stetson Bank”.
Maritime Cultural Heritage <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
New Technology <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
Bio-prospecting Relevancy <input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
Chemical Processes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water chemistry and CTD analyses are pending
Geologic Processes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Bathymetry, sidescan and sub-bottom data collected by Sentry during Dives 454 and 455 show seafloor characterized by hemipelagic sedimentation and numerous instances of sub-surface gas accumulation and seafloor gas release. The mapping and geophysical imaging captured parts of canyon head morphologies. Monocores from Kitty Hawk and Pea Island areas confirm hemipelagic and somewhat higher energy processes at depth. Sentry dive 456 captured mapping and sidescan imagery of hard bottom (carbonate?) and adjacent areas of sediment accumulation (some showing mega-ripples perhaps reflective of strong bottom currents).
Physical Processes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sampling <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Discrete samples of water and sediments were collected, see Table 1 for details
Submitted Web Summary? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Outreach <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	http://oceanexplorer.noaa.gov/explorations/17deepsearch/welcome.html
Students Involved <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1 graduate student in shipboard science party

NOAA OER Quick Look Report

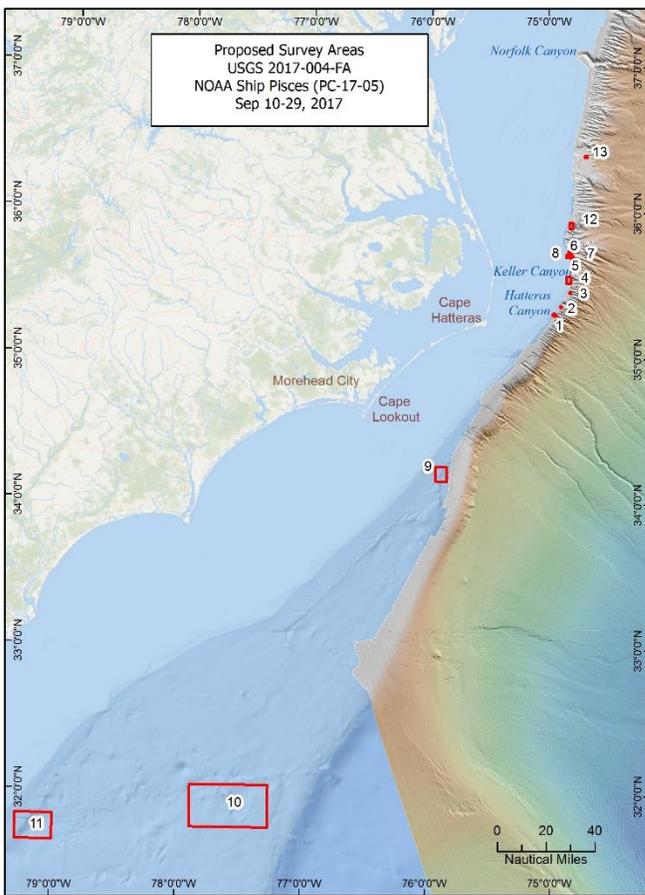
Project title: Deep SEARCH: Deep Sea Exploration to Advance Research on Coral/Canyon/Cold seep Habitats

Unique cruise ID: PC-17-05 (OMAO), 2017-004-FA (USGS)

Summary of expedition background and objectives:

This expedition is the first of three cruises for the Deep SEARCH project focused on exploring and characterizing seeps, corals, and canyon environments along the Atlantic margin. This project is a collaboration among three federal agencies: Bureau of Ocean Energy Management (BOEM), NOAA Office of Ocean Exploration and Research (OER), and the U.S. Geological Survey (USGS). TDI Brooks with academic partners has been selected to serve as BOEM contractor for this study. Data gathered during this mission and future cruises for this project will help inform multiple management issues concerning this region. The cruise focused on several putative seep sites, canyons, and hard bottom features located <100 nm offshore, 36.8455°N, -74.5844°W to 31.7421°N, -79.0941°W.

The goal of this expedition was to validate several seep targets (Fig. 1), image and map seeps, canyons (e.g., Keller, Pamlico, Hatteras, and unnamed canyons), and hard bottom features located between Virginia and Georgia. Specific objectives included:



1. Survey canyon, seep, and hard bottom features using AUV *Sentry* multibeam, subbottom profiling, digital still camera, and other sensors to characterize the seafloor in and around these benthic habitats.

2. Conduct CTD casts to collect sediment (monocore, see Appendix 2) and water samples (down to 2000 m).

3. Collect multibeam bathymetry with the ship's Simrad ME70 in areas lacking high resolution bathymetric data.

4. Conduct trawling operations a mid-water tucker trawl (see Appendix 3) net from the stern (preferred) or the starboard side J-frame (if needed).

5. Create a georeferenced database that incorporates MB bathymetry, the seafloor imagery, CTD data, and other environmental sensor data from *Sentry* with locations of benthic communities, including seep organisms and deep-sea corals and sponges.

Expedition dates, start and end ports, and

itinerary: Table 1 below provides specific station details. A summary of the daily activities is included below.

9/12/17: Delayed departure due to Hurricane Irma. Departed the dock at ~16:00 local time, headed for Kitty Hawk dive site.

9/13/17: Sentry dive 454 at Kitty Hawk seeps, 25.2 hours.

Table 1. Stations sampled during the PC1705 expedition aboard the NOAA ship Pisces in September 2017. For Gear: CTD = conductivity temperature depth profiler, MC = monocrorer, AUV = autonomous underwater vehicle Sentry. For Collections: W = water, S = sediment, D = digital

Survey	Station	Site	Gear	StartDate	EndDate	StartLat	StartLon	EndLat	EndLon	Collections	Depth (m)
PC1705	PC1705_001	Kitty Hawk	CTD, MC	9/14/2017	9/14/2017	35.93434	-74.8116	35.93426	-74.8116	W,S	10-249
PC1705	PC1705_002	Kitty Hawk	CTD, MC	9/14/2017	9/14/2017	35.90732	-74.7839	35.90734	-74.7839	W,S	10-1060
PC1705	PC1705_003	Kitty Hawk	CTD, MC	9/14/2017	9/14/2017	35.89388	-74.7525	35.89387	-74.7525	W,S	10-1390
PC1705	PC1705_004	Pea Island	CTD, MC	9/14/2017	9/14/2017	35.72657	-74.7775	35.72656	-74.7776	W,S	10-1170
PC1705	PC1705_005	Pea Island	CTD, MC	9/15/2017	9/15/2017	35.7157	-74.805	35.71573	-74.805	W,S	10-798
PC1705	PC1705_006	Pea Island	CTD, MC	9/15/2017	9/15/2017	35.71976	-74.8304	35.71976	-74.8304	W,S	10-286
PC1705	PC1705_007	Pea Island	CTD, MC	9/15/2017	9/15/2017	35.70585	-74.8259	35.70585	-74.8259	W	10-347
PC1705	PC1705_454	Kitty Hawk	AUV	9/13/2017	9/14/2017	35.93619	-74.8197	35.9061	-74.8125	D	200-560
PC1705	PC1705_455	Pea Island	AUV	9/14/2017	9/15/2017	35.70663	-74.8146	35.67349	-74.7937	D	278-574
PC1705	PC1705_456	Stetson Banks	AUV	9/20/2017	9/21/2017	32.30249	-77.4748	32.29655	-77.4607	D	279-634

9/14/17: Conducted 3 CTD casts with monocrorer attached near Kitty Hawk seeps, depth range 249-1340 m. Following CTDs, transited to Pea Island B/North Keller Canyon (unnamed). Conducted CTD cast (station 004) at Pea Island site prior to Sentry dive 455. Sentry dive 455 started ~1730 local time.

9/15/17: Pea Island/North Keller Canyon: Continued dive at Pea Island B. Sentry recovered at 13:42 local time, completing a 20.1-hour dive. Conducted 3 CTD casts with monocrorer attached, over a depth range of 342-1165 m.

9/16/17: Headed to Morehead City, NC to wait out Hurricane Jose.

9/17-18/17: In port at Morehead City, NC.

9/19/17: Departed the dock at 0900, headed to Stetson Banks.

9/20/17: At ~0700, ran an EK60 line on the north end of the Stetson banks area, near the target dive location. A few mound features were encountered at ~638m, along the line heading southeast, then flat terrain was observed until the eastern end point. There were at least 2 mounds that appeared to have a rugged top, possibly indicating corals or other non-solid structure. We finished the line and commenced with dive 456.

Dive 456 splashed at 07:46 local, and continued diving overnight. Around 17:03, we received a message from Sentry that the blueview sonar status was bad. Determined around 18:30 local time that the camera was not working and not taking pictures since the start of the dive, despite a successful deck test. EL determined that it would be risky to attempt a night launch (which would be required if Sentry was recovered, tested, new mission uploaded, etc.) due to the late hour that this information was discovered. Also, the blueview sonar was not functioning well. It was determined that the AUV needed to be further off the bottom to avoid colliding with mounds, so the Reson was turned back on to acquire high resolution multibeam.

9/21/17: Recovered Sentry dive 456. Total dive time: 22.6 hrs., transit to Norfolk, VA.

9/22/17: Arrived in Norfolk, 14:00

9/23-25/17: Norfolk, Demobe.

Co-sponsors / partners / participating organizations: BOEM, NOAA-OER, Temple University, USGS, WHOI. A team of scientists from multiple institutions participated in this expedition.

Name (Last, First)	Title	Affiliation
Demopoulos, Amanda	Chief Scientist	USGS
Kelley, Sean	Expedition lead-Sentry group	WHOI
Adams, Caitlin	NOAA coordinator	NOAA OER
Andrews, Brian	scientist	USGS
Chaytor, Jason	scientist	USGS
Durkin, Alanna	graduate student	Temple Univ
Billings, Andy	Sentry group	WHOI
Jakuba, Mike	Sentry group	WHOI
Vaccaro, Jennifer	Sentry group	WHOI
Vaughn, Ian	Sentry group	WHOI

Vessel identification: R226

Primary equipment: AUV Sentry

Geographic area of operations US Mid and South Atlantic

Summary of digital data collected:

Pisces:ME-70 multibeam: 6.53 Gb (Raw)

ADCP: 878 Mb (Raw)

EK-60: 8.41 Gb (Raw)

CTD: 57.4 Mb

POS-MV: 30.3 Gb

Sentry: Reson 7125 multibeam: 2073 Gb (Raw)

Edgetech 2200 Sidescan/sub-bottom: 140 Gb (Raw)

Digital images: 1648 Gb (Raw)

Summary of outreach and educational activities: NOAA-OER maintained an expedition website for the duration of the expedition. (<http://oceanexplorer.noaa.gov/explorations/17deepsearch/welcome.html>)

Summary of expedition operations:

Between 12 and 26 September, 2017, the NOAA Ship Pisces conducted a research expedition (PC1705) in the mid- and south Atlantic Ocean, focused on exploring the seafloor for seeps, corals, and canyons. During this expedition, the Pisces mapped 44.7km of seafloor. Using the AUV sentry, an additional 145 km of seafloor was mapped. These efforts helped to fill in the gaps in available mapping information, some of which dates back to the 1800s.

During the PC1705 expedition, despite three hurricanes, we were able to complete 3 Sentry dives; two surveyed unverified seeps located offshore of North Carolina, and one dive at a potential coral habitat located off South Carolina. We groundtruthed several unverified seeps, imaged several seep habitats, and collected corresponding sub-bottom and backscatter data to provide context for these seep environments. In addition to bathymetry, the ship and Sentry also collected water column acoustic data using the ship and AUV instruments. Additional data collected by Sentry included sidescan, CTD, DO, redox, turbidity, and photos. Seeps in this area are likely methane, but follow up cruises for this project will help confirm the source and composition of the venting material. The data gathered at the deep-sea coral habitat will be used to guide future dives in this area and the deployment of landers to provide continuous records of the environment around these features. Lastly, water column and sediment samples were collected using the ship's CTD rosette and moncore to help us better understand the environment in and around the features that we explored.

The Deep SEARCH team will continue to review the data collected on this mission in order to plan for our upcoming cruises in 2018. Each of the partners involved, including the USGS, BOEM, TDI-Brooks contracted scientists, and NOAA OER will play a role in compiling the available data and will ultimately make these data publically available. The data gathered on this mission and future expeditions will be used to help guide future resource management decisions for this region.

Dive Summaries:

Sentry Dive 454-13 September 2017: Kitty Hawk Seeps

Sentry dive 454 began at 11:45UTC with an uneventful launch. The dive initially conducted multibeam mapping at 60MAB over target seep locations. These seep targets were based on acoustic anomalies detected previously through shipboard multibeam mapping effort. Both sidescan (127/418 kHz) and the subbottom profiler (4-16 kHz) collected data during this survey. Total area mapped through multibeam was ~3.1 km². Following mapping, Sentry descended to ~5 MAB to conduct photo transects with LF/HF sidescan sonar and the subbottom profiler operational. Following completion of the northern targets, Sentry headed to the southern targets and conducted MB followed by photo transects. Depth ranged from 130-560 m. Based on the ORP sensor, there were areas throughout the survey that had low Eh and high turbidity, which may be due to vehicle resuspension of mud when near bottom and/or potentially particles in the water due to active venting from seeps. While the pH sensor was working, the values were too high, indicating that the sensor needed to be calibrated. Preliminary calibration coefficients were calculated after Dive 455 and were used to calculate pH from Dive 456.

The seafloor was primarily composed of soft sediments, with carbonate boulders occurring infrequently throughout the photo surveys. Shallow depressions and small “holes” were visible in the sediment in all surveyed areas and were spatially correlated on the bathymetry, side-scan and sub-bottom profiler datasets. The sub-bottom profiler records from the photo surveys contain scattered water column anomalies that in general correlated well with previously identified seeps (anomalies unrelated to previous seep locations were present and further analysis of these data are needed).

Zoanthids and anemones were found attached to some of the rocks. There were few bacterial mats encountered and bubbles were imaged in a few locations. Notable animals observed included horseshoe crabs, large lobsters, squid, and several fish species (e.g., scorpaenids, flatfishes, hakes, macrourids). Other crustaceans included *Cancer* and *Chaceon* spp., cf. *Bathynectes*, cf. *Eumunida*, shrimp, and some type of lithodids. Quill worms (Onuphidae: cf. *Hyalinoecia*) were found in high abundances on the sediment surface. Trash was observed and included rope, fishing line, and other plastic. Unusual track marks were observed in several images throughout the dive. Other human-made objects included an unidentifiable metal frame and possibly an anchor. Sentry was on deck 12:56UTC, 14 September 2017 for a total dive time of 25.2 hours.

sentry.20170913.195458219493.2022.tif: 2017/09/13 19:54:58 UTC
Lat: 35.93490076 Lon: -74.81781990 Depth: 221.05 Alt: 5.43 Hdg: 87.95
TEMP: 11.47 SAL: 35.43 OPT: -999.00 ORP: 4.743e-05V/s OBS: 0.0272



Sentry Dive 455-14 September 2017: Pea Island B and C Seeps

Sentry dive 455 followed a similar mission plan as Dive 454. The dive began at 22:36 UTC with an uneventful launch. The dive initially conducted multibeam mapping at 60MAB over target seep locations. These seep targets were based on acoustic anomalies detected previously through shipboard multibeam mapping effort. Both sidescan (127/418kHz) and the subbottom profiler (4-16 kHz) collected data during this survey. Total area mapped through multibeam was ~2.1 km². Following mapping, Sentry descended to ~5 MAB to conduct photo transects with LF/HF sidescan sonar and the subbottom profiler operational. Following completion of the northwestern targets, Sentry headed to the southern targets and conducted MB followed by photo transects. Depth ranged from 168-574 m. Based on the ORP and OBS sensors, there were several areas throughout the survey that had low Eh and high turbidity, which may be due to localized resuspension of particles due to active venting from seeps. While the pH sensor was working, the values were too high, indicating that the sensor needed to be calibrated. Preliminary calibration coefficients were calculated after this dive and were used to calculate pH from Dive 456. The oxygen optode did not work for this dive.

The seafloor was primarily composed of soft sediments, with carbonate boulders occurring infrequently (but more often than during Dive 454) throughout the photo surveys. Large bacterial mats were observed, as well as bubbles throughout the survey and may be of significant size to correspond with bright-patches on the side-scan sonar data. Evidence of seeps was observed on all data sources, including the sidescan sonar, subbottom profiler and bathymetric water column records, and in the photos. During the photo transects, the sub-bottom profiler was able to penetrate several 10's of meters into the sub-seafloor and imaged horizontal and tilted sediment layers adjacent to the smaller canyon walls. "Bright spots" (areas of intense, chaotic acoustic return) in the shallow sub-surface were often found associated with seep and other anomalies in the water column.

Similar fauna was observed on this dive as were encountered at the Kitty Hawk seeps (Dive 454). Anemones were found attached to some of the rocks. Notable animals observed included a scalloped hammerhead shark (*Sphyrna lewini*), a catshark, large lobsters, squid, and several fish species (e.g., scorpaenids, flatfishes, hakes, macrourids). Most of the fishes were associated with carbonate rocks. Other crustaceans included *Cancer* and *Chaceon* spp and shrimp. Quill worms (Onuphidae: cf. *Hyalinoecia*) were found in high abundances on the sediment surface. Trash was observed and included a glass bottle, fishing line, and other plastic. Sentry was on deck 18:42 UTC, 15 September 2017 for a total dive time of 20.1 hours.

sentry.20170915.143356740711.8504.tif 2017/09/15 14:33:56 UTC
Lat: 35.67568597 Lon: -74.79767881 Depth: 295.17 Alt: 5.39 Hdg: 274.56
TEMP: 9.82 SAL: 35.23 OPT: -999.00 ORP: 0.0001264V/s OBS: 0.0805



Sentry Dive 456-20 September 2017: Stetson Banks

Target dive at Stetson Banks was associated with an area with limited MB available. Following deployment, communications between the ship and Sentry were poor, due to the distance between the ship and Sentry dictated by sea state. Note that tracking of Sentry was working, but communications (sending commands and receiving status updates) was poor. As a result, it was not determined that the camera was not functioning until several hours into the dive. High-frequency and low-frequency sidescan and sub-bottom profiler data were collected throughout the dive. High-intensity reflectivity of the seafloor (likely due to near-surface hard substrate) over a significant portion of the dive and line to line offset of seafloor features have made mosaicking of the sidescan data difficult. Processing of these data are continuing. Sentry was on deck at 12:30 UTC, 21 September 2017 for a total dive time of ~ 24hrs.

Appendix B – Data Submission NOAA

Drive 1

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\2017-demopoulos\	6	4	2,448,004
FOLDER	L:\2017-demopoulos\dives\	2	1	31,678
FOLDER	L:\2017-demopoulos\dives\sentry454\	9	0	0
FOLDER	L:\2017-demopoulos\dives\sentry454\blueview\	1	30	1,012,632,808
FOLDER	L:\2017-demopoulos\dives\sentry454\blueview\son\	0	29	23,528,611,840
FOLDER	L:\2017-demopoulos\dives\sentry454\metadata\	0	31	416,305
FOLDER	L:\2017-demopoulos\dives\sentry454\multibeam\	4	1	87
FOLDER	L:\2017-demopoulos\dives\sentry454\multibeam\log\	0	30	138,488,193
FOLDER	L:\2017-demopoulos\dives\sentry454\multibeam\nav\	0	10	271,937,077
FOLDER	L:\2017-demopoulos\dives\sentry454\multibeam\procl\	1	10,969	50,482,172,556
FOLDER	L:\2017-demopoulos\dives\sentry454\multibeam\proclarchive\	0	1	276,672
FOLDER	L:\2017-demopoulos\dives\sentry454\multibeam\raw\	0	726	744,729,666,781
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\	2	1	85
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\procl\	0	53	1,750,306,057
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\	9	1	24,035,328
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\advantech_adam\	0	29	4,505,355
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\batman\	2	0	0
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\batman\console\	0	36	56,849,941
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\batman\data\	0	36	34,201,409
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\divsend\	0	58	132,269,632
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\gps\	0	13	3,773,062
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\mcl\	0	85	45,917,711
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\remus_pltgh\	0	29	5,654,424
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\rov\	0	802	4,643,845,991
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\subsea-nav\	0	31	3,985,332,678
FOLDER	L:\2017-demopoulos\dives\sentry454\nav-sci\raw\topside-nav\	0	30	463,924,204
FOLDER	L:\2017-demopoulos\dives\sentry454\photos\	4	2	4,793,904
FOLDER	L:\2017-demopoulos\dives\sentry454\photos\labeled\	0	14,659	340,126,088,448
FOLDER	L:\2017-demopoulos\dives\sentry454\photos\procl\	0	14,659	338,492,511,446
FOLDER	L:\2017-demopoulos\dives\sentry454\photos\raw\	0	14,659	314,294,248,682
FOLDER	L:\2017-demopoulos\dives\sentry454\photos\thumbnails\	0	14,659	2,380,982,774

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\	4	1	85
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\hf-sss\	3	11	143,112
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\hf-sss\Backup\	0	1	24,576
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\hf-sss\CSF\	0	666	826,542,973
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\hf-sss\images\	0	171	227,801,827
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\lf-sss\	4	11	147,218
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\lf-sss\Backup\	0	3	125,700
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\lf-sss\CSF\	0	474	846,306,431
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\lf-sss\GeoTiff\	1	212	11,985,339
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\lf-sss\GeoTiff\Tiles\	0	84	11,093,972
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\lf-sss\images\	0	27	45,811,465
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\proc\	0	171	33,743,377,000
FOLDER	L:\2017-demopoulos\dives\sentry454\sss-sbp\raw\	0	171	33,747,930,112
FOLDER	L:\2017-demopoulos\dives\sentry454\subsea-acomm\	0	30	11,788,284
FOLDER	L:\2017-demopoulos\dives\sentry454\subsea-iridium\	0	29	1,698,244
FOLDER	L:\2017-demopoulos\dives\sentry454\topside-comms\	3	0	0
FOLDER	L:\2017-demopoulos\dives\sentry454\topside-comms\acomm\	0	30	10,151,192
FOLDER	L:\2017-demopoulos\dives\sentry454\topside-comms\iridium\	0	119	25,841,157
FOLDER	L:\2017-demopoulos\dives\sentry454\topside-comms\sydney\	0	29	26,608,725
FOLDER	L:\2017-demopoulos\dives\sentry455\	9	0	0
FOLDER	L:\2017-demopoulos\dives\sentry455\blueview\	1	24	797,854,666
FOLDER	L:\2017-demopoulos\dives\sentry455\blueview\son\	0	22	18,471,890,944
FOLDER	L:\2017-demopoulos\dives\sentry455\metadata\	1	17	268,674
FOLDER	L:\2017-demopoulos\dives\sentry455\metadata\evt\	0	1	0
FOLDER	L:\2017-demopoulos\dives\sentry455\multibeam\	4	1	87
FOLDER	L:\2017-demopoulos\dives\sentry455\multibeam\log\	0	22	106,455,552
FOLDER	L:\2017-demopoulos\dives\sentry455\multibeam\nav\	0	8	141,368,645
FOLDER	L:\2017-demopoulos\dives\sentry455\multibeam\proc\	1	7,921	29,714,476,062
FOLDER	L:\2017-demopoulos\dives\sentry455\multibeam\proclarchive\	0	1	380,424
FOLDER	L:\2017-demopoulos\dives\sentry455\multibeam\raw\	0	521	534,763,104,439
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\	2	1	85
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\proc\	0	41	893,790,900
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\	9	1	61,440
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\batman\	2	0	0

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\batman\console\	0	23	30,685,334
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\batman\data\	0	23	19,645,314
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\divsend\	0	44	104,063,872
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\gps\	0	6	736,985
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\mcl\	0	68	36,789,578
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\phins\	0	1	18,542,592
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\remus_pltgh\	0	22	4,345,993
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\rov\	0	605	3,678,261,534
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\subsea-nav\	0	24	3,170,298,697
FOLDER	L:\2017-demopoulos\dives\sentry455\nav-sci\raw\topside-nav\	0	23	361,524,539
FOLDER	L:\2017-demopoulos\dives\sentry455\photos\	4	2	3,463,969
FOLDER	L:\2017-demopoulos\dives\sentry455\photos\labeled\	0	11,356	266,088,637,664
FOLDER	L:\2017-demopoulos\dives\sentry455\photos\procl\	0	11,356	264,821,743,612
FOLDER	L:\2017-demopoulos\dives\sentry455\photos\raw\	0	11,356	243,476,734,014
FOLDER	L:\2017-demopoulos\dives\sentry455\photos\thumbnails\	0	11,356	1,866,342,201
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\	4	1	85
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\hf-sss\	3	11	133,865
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\hf-sss\Backup\	0	4	136,928
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\hf-sss\CSF\	0	388	634,677,282
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\hf-sss\Images\	0	133	101,357,823
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\lf-sss\	4	11	135,698
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\lf-sss\Backup\	0	8	237,060
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\lf-sss\CSF\	0	455	656,957,179
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\lf-sss\GeoTiff\	0	15	4,440,280
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\lf-sss\Images\	0	141	194,539,448
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\procl\	0	132	26,065,117,512
FOLDER	L:\2017-demopoulos\dives\sentry455\sss-sbp\raw\	0	132	26,069,450,752
FOLDER	L:\2017-demopoulos\dives\sentry455\subsea-acomm\	0	23	9,364,449
FOLDER	L:\2017-demopoulos\dives\sentry455\subsea-iridium\	0	22	1,201,405
FOLDER	L:\2017-demopoulos\dives\sentry455\topside-comms\	3	0	0
FOLDER	L:\2017-demopoulos\dives\sentry455\topside-comms\acomml\	0	24	8,058,042
FOLDER	L:\2017-demopoulos\dives\sentry455\topside-comms\iridium\	0	24	4,820,347
FOLDER	L:\2017-demopoulos\dives\sentry455\topside-comms\sdynel\	0	23	20,738,490
FOLDER	L:\2017-demopoulos\docs\	0	16	14,707

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\2017-demopoulos\planning\	0	42	18,679,247
FOLDER	L:\2017-demopoulos\planning-bathyl	10	12	79,715,595
FOLDER	L:\2017-demopoulos\planning-bathylKittyHawk5mWGS84_contour\	0	4	2,375,848
FOLDER	L:\2017-demopoulos\planning-bathylnavG-Backgrounds\	0	10	15,042,406
FOLDER	L:\2017-demopoulos\planning-bathylNOAA_BSB\	0	2	5,921,427
FOLDER	L:\2017-demopoulos\planning-bathylPC1704BaseBath10m\	1	6	317,273,815
FOLDER	L:\2017-demopoulos\planning-bathylPC1704BaseBath10m\PC1705BaseBath10m_contours_50\	0	4	36,848,183
FOLDER	L:\2017-demopoulos\planning-bathylplume_locations\	1	16	222,407
FOLDER	L:\2017-demopoulos\planning-bathylplume_locations\PC1705SurvPlan\	0	8	14,160
FOLDER	L:\2017-demopoulos\planning-bathylSentry_455\	1	0	0
FOLDER	L:\2017-demopoulos\planning-bathylSentry_455\SurvPlan\	1	4	3,680,752
FOLDER	L:\2017-demopoulos\planning-bathylSentry_455\SurvPlan\Pealsland_BC_WGS84_10m_contour\	0	4	1,887,012
FOLDER	L:\2017-demopoulos\planning-bathylstetson-bank\	1	19	56,453,013
FOLDER	L:\2017-demopoulos\planning-bathylstetson-bank\stetson-north-contour\	0	4	2,203,030
FOLDER	L:\2017-demopoulos\planning-bathyltarget_files\	0	4	159,502
FOLDER	L:\2017-demopoulos\planning-bathylusa\	0	7	9,563,266
FOLDER	L:\2017-demopoulos\planning-bathylusgs_background_bathyl	0	20	433,746,663
FOLDER	L:\2017-demopoulos\plots\	0	126	1,007,471,683
FOLDER	L:\2017-demopoulos\products\	2	1	29,919
FOLDER	L:\2017-demopoulos\products\sentry454\	7	0	0
FOLDER	L:\2017-demopoulos\products\sentry454\blueview\	0	1	66
FOLDER	L:\2017-demopoulos\products\sentry454\hf-sss\	1	0	0
FOLDER	L:\2017-demopoulos\products\sentry454\hf-sss\mosaics\	0	1	55
FOLDER	L:\2017-demopoulos\products\sentry454\lf-sss\	2	0	0
FOLDER	L:\2017-demopoulos\products\sentry454\lf-sss\images\	0	27	45,811,465
FOLDER	L:\2017-demopoulos\products\sentry454\lf-sss\mosaics\	0	1	55
FOLDER	L:\2017-demopoulos\products\sentry454\multibeam\	3	0	0
FOLDER	L:\2017-demopoulos\products\sentry454\multibeam\grid\	0	2	106,332,128
FOLDER	L:\2017-demopoulos\products\sentry454\multibeam\images\	0	3	15,517,023
FOLDER	L:\2017-demopoulos\products\sentry454\multibeam\nav_s7k\	0	726	744,791,173,021
FOLDER	L:\2017-demopoulos\products\sentry454\photos\	1	0	0

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\2017-demopoulos\products\sentry454\photos\thumbnails\	0	14,659	2,380,982,774
FOLDER	L:\2017-demopoulos\products\sentry454\sbp\	3	0	0
FOLDER	L:\2017-demopoulos\products\sentry454\sbp\sd-objects\	0	1	58
FOLDER	L:\2017-demopoulos\products\sentry454\sbp\segy\	0	1	58
FOLDER	L:\2017-demopoulos\products\sentry454\sbp\su\	0	1	71
FOLDER	L:\2017-demopoulos\products\sentry454\scc\	0	2	35,755,588
FOLDER	L:\2017-demopoulos\products\sentry455\	7	0	0
FOLDER	L:\2017-demopoulos\products\sentry455\blueview\	0	1	66
FOLDER	L:\2017-demopoulos\products\sentry455\hf-sss\	1	0	0
FOLDER	L:\2017-demopoulos\products\sentry455\hf-sss\mosaics\	0	1	55
FOLDER	L:\2017-demopoulos\products\sentry455\lf-sss\	2	0	0
FOLDER	L:\2017-demopoulos\products\sentry455\lf-sss\images\	0	15	23,587,750
FOLDER	L:\2017-demopoulos\products\sentry455\lf-sss\mosaics\	0	1	55
FOLDER	L:\2017-demopoulos\products\sentry455\multibeam\	3	0	0
FOLDER	L:\2017-demopoulos\products\sentry455\multibeam\grid\	0	2	143,981,912
FOLDER	L:\2017-demopoulos\products\sentry455\multibeam\images\	0	3	12,226,385
FOLDER	L:\2017-demopoulos\products\sentry455\multibeam\inv_s7k\	0	521	534,804,480,908
FOLDER	L:\2017-demopoulos\products\sentry455\photos\	1	0	0
FOLDER	L:\2017-demopoulos\products\sentry455\photos\thumbnails\	0	11,356	1,866,342,201
FOLDER	L:\2017-demopoulos\products\sentry455\sbp\	3	0	0
FOLDER	L:\2017-demopoulos\products\sentry455\sbp\sd-objects\	0	1	58
FOLDER	L:\2017-demopoulos\products\sentry455\sbp\segy\	0	1	58
FOLDER	L:\2017-demopoulos\products\sentry455\sbp\su\	0	1	71
FOLDER	L:\2017-demopoulos\products\sentry455\scc\	0	1	14,222,185

Drive 2

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\2017-demopoulos\dives\	1	0	0
FOLDER	L:\2017-demopoulos\dives\sentry456\	9	0	0
FOLDER	L:\2017-demopoulos\dives\sentry456\blueview\	0	29	696,953,579
FOLDER	L:\2017-demopoulos\dives\sentry456\metadata\	0	17	273,961
FOLDER	L:\2017-demopoulos\dives\sentry456\multibeam\	4	1	87
FOLDER	L:\2017-demopoulos\dives\sentry456\multibeam\log\	0	27	122,719,675
FOLDER	L:\2017-demopoulos\dives\sentry456\multibeam\nav\	0	8	157,998,387
FOLDER	L:\2017-demopoulos\dives\sentry456\multibeam\procl\	1	12,484	55,444,761,953
FOLDER	L:\2017-demopoulos\dives\sentry456\multibeam\proclarchive\	0	1	1,054,812
FOLDER	L:\2017-demopoulos\dives\sentry456\multibeam\raw\	0	826	841,430,959,236
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\	2	1	85
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\procl\	0	43	1,004,877,775
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\	10	0	0
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\advantech_adam\	0	27	4,238,525
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\batman\	2	0	0
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\batman\console\	0	27	36,318,876
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\batman\data\	0	27	23,465,714
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\divsend\	0	54	120,569,152
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\gps\	0	4	494,970
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\mcl\	0	77	41,329,121
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\phins\	0	7	42,254,336
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\remus_pltgh\	0	56	10,051,008
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\rov\	0	727	3,825,393,928
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\subsea-nav\	0	28	3,621,304,102
FOLDER	L:\2017-demopoulos\dives\sentry456\nav-sci\raw\topside-nav\	0	27	434,461,735
FOLDER	L:\2017-demopoulos\dives\sentry456\photos\	1	1	84
FOLDER	L:\2017-demopoulos\dives\sentry456\photos\raw\	0	10	214,403,560
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\	4	1	85
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\hf-sss\	4	11	141,871
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\hf-sss\Backup\	0	7	218,662
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\hf-sss\CSF\	0	623	770,630,185
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\hf-sss\GeoTiff\	0	81	23,977,512
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\hf-sss\Images\	0	160	244,544,514
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\lf-sss\	4	11	144,618

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\lf-sss\Backup\	0	4	147,676
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\lf-sss\CSF\	0	617	826,798,323
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\lf-sss\GeoTiff\	0	27	7,992,504
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\lf-sss\Images\	0	170	262,474,919
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\proc\	0	154	30,406,169,800
FOLDER	L:\2017-demopoulos\dives\sentry456\sss-sbp\raw\	0	154	30,412,580,864
FOLDER	L:\2017-demopoulos\dives\sentry456\subsea-acomm\	0	28	10,881,798
FOLDER	L:\2017-demopoulos\dives\sentry456\subsea-iridium\	0	27	1,692,994
FOLDER	L:\2017-demopoulos\dives\sentry456\topside-comms\	3	0	0
FOLDER	L:\2017-demopoulos\dives\sentry456\topside-comms\acomm\	0	28	9,270,007
FOLDER	L:\2017-demopoulos\dives\sentry456\topside-comms\iridium\	0	51	10,729,712
FOLDER	L:\2017-demopoulos\dives\sentry456\topside-comms\sdynel\	0	27	24,694,552
FOLDER	L:\2017-demopoulos\products\	1	0	0
FOLDER	L:\2017-demopoulos\products\sentry456\	6	0	0
FOLDER	L:\2017-demopoulos\products\sentry456\blueview\	0	1	66
FOLDER	L:\2017-demopoulos\products\sentry456\hf-sss\	1	0	0
FOLDER	L:\2017-demopoulos\products\sentry456\hf-sss\mosaics\	0	1	55
FOLDER	L:\2017-demopoulos\products\sentry456\lf-sss\	1	0	0
FOLDER	L:\2017-demopoulos\products\sentry456\lf-sss\mosaics\	0	1	55
FOLDER	L:\2017-demopoulos\products\sentry456\multibeam\	2	0	0
FOLDER	L:\2017-demopoulos\products\sentry456\multibeam\grids\	0	2	161,080,592
FOLDER	L:\2017-demopoulos\products\sentry456\multibeam\images\	0	3	19,324,720
FOLDER	L:\2017-demopoulos\products\sentry456\sbp\	3	0	0
FOLDER	L:\2017-demopoulos\products\sentry456\sbp\sd-objects\	0	1	58
FOLDER	L:\2017-demopoulos\products\sentry456\sbp\segy\	0	1	58
FOLDER	L:\2017-demopoulos\products\sentry456\sbp\su\	0	1	71
FOLDER	L:\2017-demopoulos\products\sentry456\scc\	0	1	15,897,978
FOLDER	L:\Multibeam at a Glance\	0	11	13,139,375
FOLDER	L:\PC1705_PostCruise\	3	1	951,296
FOLDER	L:\PC1705_PostCruise\data\	3	0	0
FOLDER	L:\PC1705_PostCruise\data\BathPlan\	0	15	311,653,853
FOLDER	L:\PC1705_PostCruise\data\ME70\	0	16	1,488,197
FOLDER	L:\PC1705_PostCruise\data\Sentry\	0	36	54,715,547
FOLDER	L:\PC1705_PostCruise\layers\	0	4	131,584
FOLDER	L:\PC1705_PostCruise\PC1705.gdb\	0	67	54,826,308

Type	Full Name	Number of Sub-Folders	Number of Files	Folder Size
FOLDER	L:\Pisces_Sentry_Maps\	5	8	6,708,634
FOLDER	L:\Pisces_Sentry_Maps\Analyzed Photo Data\	0	4	11,000,699
FOLDER	L:\Pisces_Sentry_Maps\Chem and Photo CSVs\	3	0	0
FOLDER	L:\Pisces_Sentry_Maps\Chem and Photo CSVs\454\	0	7	5,132,500
FOLDER	L:\Pisces_Sentry_Maps\Chem and Photo CSVs\455\	0	6	3,683,769
FOLDER	L:\Pisces_Sentry_Maps\Chem and Photo CSVs\456\	0	6	3,372,701
FOLDER	L:\Pisces_Sentry_Maps\Maps\	3	7	43,723,260
FOLDER	L:\Pisces_Sentry_Maps\Maps\Dive454.gdb\	0	323	3,240,215,226
FOLDER	L:\Pisces_Sentry_Maps\Maps\Dive455.gdb\	0	239	2,462,430,595
FOLDER	L:\Pisces_Sentry_Maps\Maps\Dive456.gdb\	0	168	5,066,748
FOLDER	L:\Pisces_Sentry_Maps\Science Files\	0	7	64,445,367
FOLDER	L:\Pisces_Sentry_Maps\Selected_Snapshots\	2	2	944,654
FOLDER	L:\Pisces_Sentry_Maps\Selected_Snapshots\454\	0	137	3,228,363,306
FOLDER	L:\Pisces_Sentry_Maps\Selected_Snapshots\455\	0	103	2,452,184,192
FOLDER	L:\System Volume Information\	0	2	88