*Okeanos Explorer* ROV Dive Summary

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| Dive Information |
| General Location |  |
| General Area Descriptor | Oahu |
| Site Name | USS Baltimore |
| Science Team Leads | John Smith/Meagan Putts |
| Expedition Coordinator  | Kasey Cantwell |
| ROV Dive Supervisor | Karl McLetchie |
| Mapping Lead | Mike White |
| ROV Dive Name |
| Cruise | EX1708 |
| Leg | - |
| Dive Number | DIVE22 |
| Equipment Deployed |
| ROV | Deep Discoverer |
| Camera Platform | Seirios |
| ROV Measurements | [x]  CTD | [x]  Depth | [x]  Altitude |
|  | [x]  Scanning Sonar | [x]  USBL Position | [x]  Heading |
|  | [x]  Pitch | [x]  Roll | [x]  HD Camera 1 |
|  | [x]  HD Camera 2 | [x]  Low Res Cam 1 | [x]  Low Res Cam 2 |
|  | [x]  Low Res Cam 3 | [x]  Low Res Cam 4 | [x]  Low Res Cam 5 |
| Equipment Malfunctions |  |
| ROV Dive Summary(from processed ROV data) |  Dive Summary: EX1708\_DIVE22^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^In Water: 2017-09-29T18:21:19.212000 21°, 01.008' N ; 157°, 50.327' WOut Water: 2017-09-30T02:20:34.103000 21°, 01.087' N ; 157°, 50.000' WOff Bottom: 2017-09-30T01:45:46.596000 21°, 01.059' N ; 157°, 50.196' WOn Bottom: 2017-09-29T18:51:55.205000 21°, 01.031' N ; 157°, 50.222' WDive duration: 7:59:14Bottom Time: 6:53:51Max. depth: 536.9 m |
| Special Notes |  |
| Scientists Involved(please provide name, location, affiliation, email) |

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| Purpose of the Dive | Maritime heritage dive to conduct non-invasive video survey of remains of USS Baltimore, late 19th-century USN protected cruiser scuttled near Oahu in 1944, including: documentation of specific 19th-century features; photogrammetry and mosaic data compilation; assessment of scuttling damage; assessment of preservation/deterioration status; marine species inventory.  |
| Description of the Dive | Vessel was found upright and intact on the flat sandy bottom. A complete video survey was accomplished meeting all the main objectives: perimeter survey of main features; detailed photogrammetry compilation of iconic bow ram; detailed engineering spaces documentation; full deck photomosaic compilation; hull plate damage assessment. Data will enable interpretive products of this historic vessel.  |
| Overall Map of the ROV Dive Area | Close-up Map of Main Dive Site |
| D:\KC_Silver_Spring_Comp\Documents\FY17\Expedtions\EX\EX1708\ship's network\EX1708\DiveSummaries\HypackScreengrabs\DIVE22_Hypack_wide.JPG | D:\KC_Silver_Spring_Comp\Documents\FY17\Expedtions\EX\EX1708\ship's network\EX1708\DiveSummaries\HypackScreengrabs\DIVE22_Hypack_zoom.JPG |
| Representative Photos of the Dive |
| D:\KC_Silver_Spring_Comp\Documents\FY17\Expedtions\EX\EX1708\Imagery\EX1708_DIVE22_20170929\EX1708_IMG_20170929T201354Z_ROVHD.jpg | D:\KC_Silver_Spring_Comp\Documents\FY17\Expedtions\EX\EX1708\Imagery\EX1708_DIVE22_20170929\EX1708_IMG_20170929T211416Z_ROVHD.jpg |
| The stern of the USS Baltimore was modified to accommodate mine laying operations. | At the bow of the USS Baltimore, there was a large aggregation of Brisingid sea stars.  |
| Samples Collected |
| No samples were collected during this dive. |

# Please direct inquiries to:

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