*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 | CTD | | Depth | Altitude |
|  | Scanning Sonar | | USBL Position | Heading |
|  | Pitch | | Roll | HD Camera 1 |
|  | HD Camera 2 | | Low Res Cam 1 | Low Res Cam 2 |
|  | Low Res Cam 3 | | Low Res Cam 4 | 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' W  Out Water: 2017-09-30T02:20:34.103000  21°, 01.087' N ; 157°, 50.000' W  Off Bottom: 2017-09-30T01:45:46.596000  21°, 01.059' N ; 157°, 50.196' W  On Bottom: 2017-09-29T18:51:55.205000  21°, 01.031' N ; 157°, 50.222' W  Dive duration: 7:59:14  Bottom Time: 6:53:51  Max. depth: 536.9 m | | | |
| Special Notes |  | | | |
| Scientists Involved  (please provide name, location, affiliation, email) | |  |  |  | | --- | --- | --- | | **Name** | **Email** | **Affiliation** | | Jarrod Kellogg |  | Defense POW/MIA Accounting Agency (DPAA) | | Amanda Murphy |  | DPAA | | Asako Matsumoto | amatsu@gorgonian.jp | Planetary Exploration Research Center, Chiba Institute of Technology | | Ashley Burch |  | Defense POW/MIA Accounting Agency (DPAA) | | Bruce Mundy | bruce.mundy@noaa.gov | NOAA NMFS Pacific Islands Fisheries Science Center | | Bruce Terrell | bruce.terrell@noaa.gov | NOAA | | Christopher Kelley | ckelley@hawaii.edu | University of Hawaii | | Christopher Mah | brisinga@gmail.com | Dept. Invertebrate Zoology, NMNH Smithsonian Institution | | David Ball | david.ball@boem.gov | BOEM | | Denise To |  | Defense POW/MIA Accounting Agency (DPAA) | | Eric Young |  | Defense POW/MIA Accounting Agency (DPAA) | | Frank Cantelas | frank.cantelas@noaa.gov | NOAA NOS MHP/ OER | | Frederick Hanselmann | fhanselmann@rsmas.miami.edu | University of Miami | | Hans Van Tilburg | hans.vantilburg@noaa.gov | NOAA ONMS | | Heidi Hirsh | heidi.hirsh@noaa.gov | NOAA NMFS PIRO Marine National Monuments Program | | Jack Irion | jack.irion@boem.gov | BOEM | | Jim Masterson | jmaster7@fau.edu | FAU Harbor Branch Oceanographic ECC | | John Smith | jrsmith@hawaii.edu | University of Hawaii | | Joseph Hoyt | joseph.hoyt@noaa.gov | Office of National Marine Sanctuaries | | Kara Davis | kara.e.davis.civ@mail.mil | Defense POW/MIA Accounting Agency | | Kimberly Galvez | kgalvez@rsmas.miami.edu | University of Miami - RSMAS | | Mary Megyesi |  | Defense POW/MIA Accounting Agency (DPAA) | | Meagan Putts | Meagan.putts@noaa.gov | University of Hawaii | | Nolan Barrett | barrettnh@g.cofc.edu | FAU Harbor Branch Oceanographic Institute | | Piotr Bojakowski |  | Defense POW/MIA Accounting Agency (DPAA) | | Richard Wills | richard.k.wills.civ@mail.mil | DPAA SA CIL | | Robert Schwemmer | Robert.Schwemmer@noaa.gov | NOAA | | Russ Matthews | rmatthews@mor-ent.com | Air Sea Heritage Foundation | | Tina Molodtsova | tina@ocean.ru; tina.molodtsova@gmail.com | P.P.Shirshov Institute of Oceanology RAS | | | | |
| 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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