

# NOAA DART Buoy Deployment B-Roll

Technical Note: Buoy deployed during this mission utilizes DART-I technology.

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Time Code	Description
1:00:00:00	<b>Mission overview video TRT 5:43</b> Designed for reference only to explain system components, purpose and nature of mission, and phase-by-phase description of operations. All footage in this video also appears uncut in the ensuing b-roll.
1:05:54:00	<b>B-Roll and Interviews TRT 21:21</b>
1:06:05:00	<b>NOAA Ship HI'IALAKAI</b> Docked in Portland, Ore. Several Views
1:06:51:00	<b>DART buoy: replacement for malfunctioning buoy</b> secured to fantail deck of HI'IALAKAI
1:07:23:00	<b>Bottom Pressure Recorder (BPR)</b> to be deployed with new buoy. Slate provides text describing its use.
1:07:44:00	<b>Ship leaves Portland 13 FEB 2005</b> 07:49 Pulling in lines 07:58 Hoisting anchor 08:18 B-Roll of ship's commanding officer CDR Scott Kuester 08:28 Navigational chart: Port of Portland
1:08:46:00	<b>Engineers &amp; Technicians from the NOAA National Data Buoy Center</b> Shannon McArthur (chief scientist), Mike Brewer, Kendal Michel, Bill Hansen Preparing buoy and BPR for deployment
1:09:39:00	<b>Arrival at site of malfunctioning buoy; 190 miles SW of Seattle, Wash.</b> Crew prepares for buoy and BPR recovery operations 09:45 buoy in the water 10:00 deck crew prepares for retrieval operations
1:10:05:00	<b>Engineers &amp; Technicians from the NOAA National Data Buoy Center</b> Shannon McArthur (chief scientist), Mike Brewer, Kendal Michel, Bill Hansen After BPR is released from its mooring anchor and begins rising to surface, Kendal lowers a transducer over the side which communicates with the BPR, allowing technicians to locate it.
1:10:36:00	<b>Retrieval of BPR</b> With flotation provided by highly visible, yellow-encased, glass-ball flotation devices, the BPR reaches the surface and is sighted. The BPR is then recovered with a grappling hook (10:49) and retrieved via the ship's crane (10:54).

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1:12:13:00	<p><b>Deployment of replacement buoy</b>  Existing mooring chain, still anchored to the ocean floor, has been taken off the "old" buoy and attached to the replacement buoy, which is then deployed.  14:00 Release of buoy, applause  14:17 Buoy in the water  15:11 Crew preps for next operation</p>
1:15:21:00	<p><b>Deployment of replacement BPR</b>  BPR, attached to a steel-plate anchor capable of sinking BPR and its glass-ball flotation system, is deployed via ship's crane.</p>
1:16:30:00	<p><b>Engineers &amp; Technicians from the NOAA National Data Buoy Center</b>  Shannon McArthur (chief scientist), Mike Brewer, Kendal Michel, Bill Hansen  Just-deployed BPR immediately begins transmitting depth information as it descends, which is received and monitored by NDBC technicians.</p>
1:17:50:00	<p><b>Ocean and wind conditions</b>  B-Roll of American flag in high winds, roiling ocean, horizon tilting, gyrocompass in pilot house.</p>
1:18:48:00	<p><b>Interview: CDR Scott Kuester</b>  Commanding Officer, NOAA Ship HI'IALAKAI</p>
1:20:22:00	<p><b>B-Roll: Shannon McArthur</b>  Operational Manager, DART Tsunami Warning System, NOAA National Data Buoy Center – Shannon with CDR Scott Kuester and other ship personnel.</p>
1:21:50:00	<p><b>Interview: Shannon McArthur</b>  Interview #1: prior to deployment. Explains objectives, demonstrates system</p>
1:23:58:00	<p><b>Interview: Shannon McArthur</b>  Interview #2: after deployment. Addresses frequently asked questions.</p>
1:27:21:00	<p><b>NOAA logo</b></p>