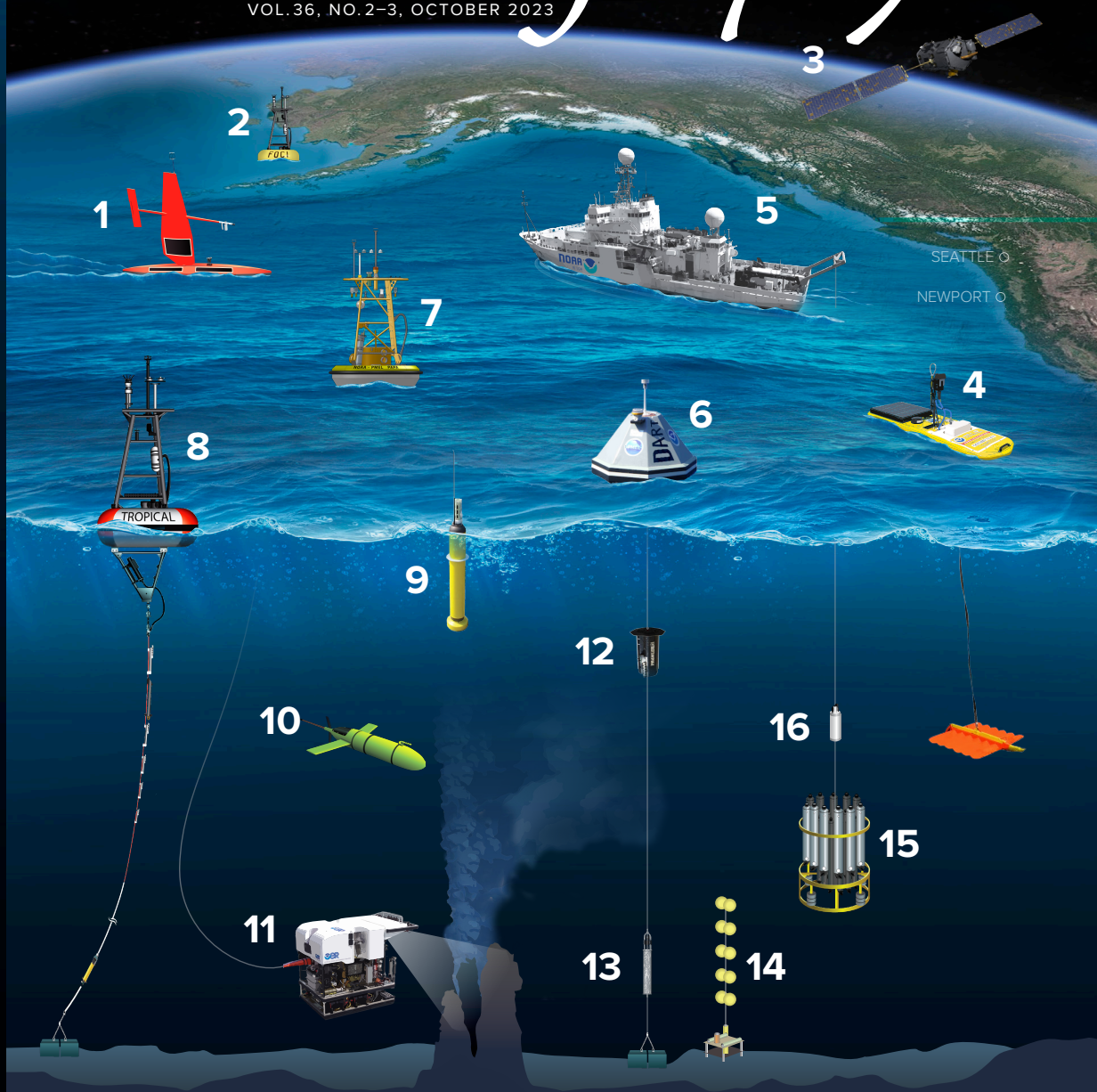


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PACIFIC MARINE ENVIRONMENTAL LABORATORY

50 YEARS OF INNOVATIVE RESEARCH IN OCEANOGRAPHY

ON THE COVER

The cover illustration depicts many of the technologies that support research at the NOAA Pacific Marine Environmental Laboratory (PMEL). (1) Saildrone. (2) Ecosystems & Fisheries Oceanography (FOCI) mooring. (3) NASA's Orbiting Carbon Observatory-2 satellite. (4) Wave Glider. (5) NOAA Ship *Ronald H. Brown*. (6) DART mooring acoustically linked to a (14) Bottom Pressure Recorder and a (12) profiling crawler, or Prawler, on the mooring line. (7) Papa mooring. (8) Tropical moored buoy. (9) Argo float. (10) Oculus glider. (11) NOAA remotely operated vehicle *Deep Discoverer*. (13) Hydrophone. (15) CTD-rosette with a (16) Miniature Autonomous Plume Recorder (MAPR) on the wire. Communications satellites (not shown) relay ocean data from many of these platforms to PMEL. Background map by Google Earth.