



MISSION I “SOLO-TREC”

Sounding Oceanographic Lagrangian Observer (SOLO) Thermal RECharging (TREC)

SOLO-TREC is the first unmanned underwater vehicle (UUV) that is completely powered by renewable energy associated with the temperature differences in the ocean. In collaboration with Scripps Institution of Oceanography from University of California at San Diego sponsored by the Office of Naval Research, the JPL team deployed the SOLO-TREC float southwest of the Hawaii Islands on November 30, 2009. After making 1000 profiles surfacing three times per day between the surface and 500 meters depth, the SOLO-TREC was successfully recovered by David Cowper, a British yachtsman, who was the first man to sail solo round the world in both directions, on board of the MV Polar Bound traveling from Hawaii to Dutch Harbor, Alaska.