

Compact Recoverable Ocean Mooring Buoy

The Compact Recoverable Ocean Mooring Buoy (C-ROM) is an oceanographic subsurface mooring solution that offers a reliable and compact design for mooring and recovering oceanographic instrumentation. With a rugged exterior polyethylene shell and a DeepTec® syntactic foam core, these buoys are designed for flexibility, allowing the user to house their choice of instruments and acoustic releases.

The C-ROM consists of a subsurface flotation collar with integral mounting hardware. Instruments are mounted within the inner diameter for protection. Standard hardware frames are available to mount a user-specified acoustic release, as well as other instrumentation. The C-ROM is also offered in a larger size for increased buoyancy; the C-ROM Plus.

Standard hardware kits are available for most popular acoustic release systems, as well as mounting hardware for ADCPs, beacons, flashers, CTDs and profilers. Custom instrument mounts and additional battery packs are easily accommodated.

A unique feature of the C-ROM system is that it inverts at the surface for recovery allowing the release transducers to remain in the water. This allows availability for acoustic ranging. The tracking beacons are mounted to the underside of the C-ROM, so that they are above the water when the float is on the surface.

Originally designed by Bedford Institute of Oceanography, the C-ROM was sold by ROMOR Ocean Solutions. The syntactic foam float was manufactured by DeepWater Buoyancy. In 2025, DeepWater Buoyancy secured the rights to manufacture and sell internationally.



	C-ROM	C-ROM PLUS
DEPTH in meters	UPLIFT IN LBS/KG	
750	73.0 / 33.0	102.0 / 46.5
1500	61.5 / 27.5	86.5 / 39.5
3500	50.0 / 22.6	71.0 / 32.5
6000	45.5 / 20.6	64.5 / 29.5