



MARINE ROBOTIC VEHICLES™

**Our floats tell the stories of
the sea, from top to bottom,
year after year**



About MRV Systems

MRV Systems, LLC was founded in July 2010 and is a leading designer and manufacturer of autonomous underwater vehicles. MRV is committed to providing reliable, long-lived marine robotic vehicles at a reasonable cost to better understand and monitor the world's oceans.

We take the secret out of the sea with reliable, steady measurements

ALAMO™

- Originally designed for aircraft deployment in path of hurricanes and tropical cyclones.
- Standard models meet A-size sonobuoy dimensional limits
- Extended hull models available to carry additional sensors
- 1200m depth rating
- Mass (standard hull): 9.2kg (20.2lbs)
- Mass (extended hull): 11.5kg (25.3lbs)
- Height (standard hull, including antenna): 91cm (35.8in)
- Height (extended hull, including antenna): 111cm (43.8in)
- Diameter (pressure hull): 12.2cm (4.8in)
- Expect 400-700 rapid profiles to 300m (~12/day), depending on sensors
- Available volume change: 350cc ($dV/V = 3.9\%$)
- Iridium SBD for telemetry, command and control
- Standard hull models: RBR Temperature-Pressure or RBR ArgoCTD
- Extended hull models: SBE-41CP+ CTD, Li-Cor PAR, RSI MicroPod

S2-A™

- Standard core Argo program float, licensed from Scripps Institution of Oceanography (SIO), with more than 500 deployed since 2011
- 2000m depth rating
- Mass: 19.2kg (42.2lbs)
- Height (including antenna): 133cm (52.5in)
- Diameter (pressure hull): 16.5cm (6.5in)
- Expect 325 Argo profiles with Lithium primary batteries, other battery options available
- Iridium SBD for telemetry, command and control
- SBE-41CP+ Conductivity, Temperature, Depth (CTD) sensor package
- Ship or aircraft-deployable (boxed)
- Available volume change: 650cc ($dV/V = 3.4\%$)

ALTO™

- Available for core Argo or development and sensor integration programs
- Higher efficiency hydraulic (buoyancy) system
- 2000m depth rating
- Mass: 19.2kg (42.2lbs)
- Height (including antenna): 133cm (52.5in)
- Diameter (pressure hull): 16.5cm (6.5in)
- Expect 500 Argo profiles with Lithium primary batteries, other battery options available
- Iridium SBD for telemetry, command and control
- SBE-41CP+ CTD, RBR ArgoCTD
- Ship or aircraft-deployable (boxed)
- Available volume change: 650cc ($dV/V = 3.4\%$)

Deep SOLO™

- Deep Argo program float, licensed from SIO
- 6000m depth rating
- Mass: 27kg (42.2lbs)
- Height (including antenna): 84cm (33in)
- Diameter (glass sphere pressure hull): 33cm (13in)
- Expect 250 Argo profiles with Lithium primary batteries
- Iridium SBD for telemetry, command and control
- SBE-61CP+ CTD
- Ship-deployed (box)
- Available volume change: 650cc ($dV/V = 2.2\%$)
- Passive bottom detection (wire rope)

From basic ocean research to maritime domain awareness, MRV Systems provides a family of profiling vehicles designed for a wide variety of applications.

Based on the SOLO-II float developed by Scripps Institution of Oceanography for the International Argo program, MRV's floats provide high-resolution data and an unmatched level of reliability.

High energy efficiency enables continuous operation for hundreds of cycles and as long as seven years.

**It's more of what you want.
More data, more often,
more efficiently.**



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