ASL provides many solutions for your mooring needs. Whether you’re deploying a single instrument or a whole suite, we have a host of designs to suit your requirements. We also create custom designs. Our various configurations are:

- Reasonably priced
- Field-proven
- Corrosion resistant construction
- For large or small boat deployments
- Well suited to oceanographic instrumentation
- Options available include pop-up buoys, ground lines, tilt-pingers

### Standard and Custom Bottom Frames

**Gimballed Bottom Frame**  
Light-weight, collapsible, optional leg extensions for stability.

**Mini Bottom Frame**  
Simple and deployable from small boat.

**Diver Serviceable Bottom Frame**  
Instrument pod attaches to permanent base.

**Trawl Resistant Bottom Frame**  
Low profile, ice impact and trawl resistant.

**LowPro5**  
For use with RDI Sentinel ADCPs; can be taken apart for shipping & is very stable and easy to deploy.

**Tripod Bottom Frame**  
Easily configured; multi sensor.

**Multi-Instrument Bottom Frame**  
Designed for strong currents.
Taut-Line Moorings

Standard Dual Purpose Cage Design
Specifically designed for the ASL Ice Profiler or Acoustic Zooplankton Fish Profiler (AZFP) in a full pressure case or any combination of the TRDI Workhorse ADCP and external battery pack.

Features:
• Specifically designed for the ASL Ice Profiler or Acoustic Zooplankton Fish Profiler in a full pressure case, or the RDI Workhorse ADCP with external battery pack, or two ADCPs.
• Shown with the HD modification with max working load of 2,000 lbs (higher loads on request).
• An optional top crown is available for use as an inline cage.
• 316 stainless steel construction.
• Includes sacrificial anodes for corrosion protection of the cage.
• Cage is electrically isolated from the instrument(s).
• Uses up to 8 Viny floats Model 12B3 (200m working depth). Deep-rated floats also available.
• Overall length is 56” inches (1420 mm).
• Weight in air with anodes but without Viny floats and instrument(s) is approx. 65 lbs (or 30 kg).
• Est. weight in water with anodes but without Viny floats and instrument(s) is 56 lbs (or 26 kg).

Mooring Design/Custom Cage Design
ASL has designed and built a number of custom in-line cages for various oceanographic instruments (Passive Acoustic Recorders, Acoustic Doppler Current Meters, CTDs). As an example, one cage was specifically designed for the Model AEM-USB logger-type current meter manufactured by Alec Electronics co. Ltd.

Features:
• Specifically designed for the Model AEM-USB logger-type current meter manufactured by Alec Electronics co. Ltd.
• The three vertical rods are positioned 6.5” (165 mm) away from the EM transducer.
• Maximum working load is 2,000 lbs (higher loads available upon request).
• Overall length is 41” inches (1040mm).
• Weight in air with instrument and anodes is 15.5 lbs (7.0 kg).
• 316 stainless steel construction.
• Includes sacrificial anodes for corrosion protection of the cage.
• Cage is electrically isolated from the instrument.