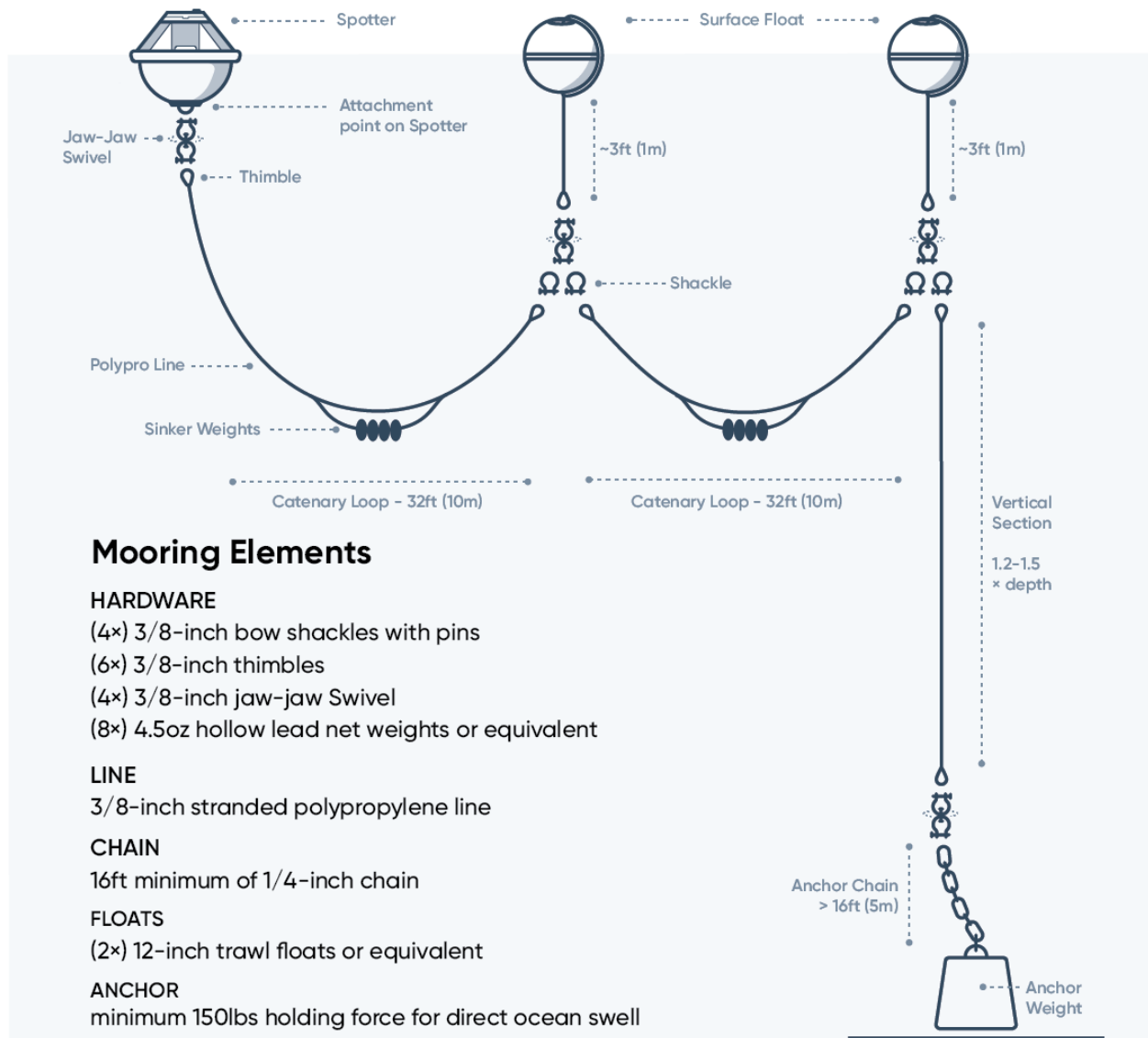


Example Deployment Checklist and Schedule

1. Getting in touch with the Backyard Buoys team regarding your community's interest in deploying ocean observation equipment.
2. Information on co-design and the Spotter and Smart Mooring systems.
3. Planning the deployment location. Working with the BB team to permit.
4. Planning the deployment of the buoy.
 - a. Securing a vessel and personnel.
 - b. Funding for these efforts.
5. Receiving the buoy and getting ready for deployment.
 - a. Spotter buoy system and data telemetry systems.
 - i. Main Product Documentation Hub:
<https://www.sofaroccean.com/posts/spotter-product-documentation>
 - ii. Spotter User Guide.
 - iii. [Spotter Tutorials: Dashboard Part 1](#): Setting up an account and activating your Spotter
 - iv. [Spotter Tutorials: Dashboard Part 2](#): Comprehensive tour of Spotter dashboard:
 - v. API Documentation: <https://docs.sofaroccean.com/>
 - b. Mooring Design
 - i. Double Catenary



Mooring Elements

HARDWARE

- (4×) 3/8-inch bow shackles with pins
- (6×) 3/8-inch thimbles
- (4×) 3/8-inch jaw-jaw Swivel
- (8×) 4.5oz hollow lead net weights or equivalent

LINE

3/8-inch stranded polypropylene line

CHAIN

16ft minimum of 1/4-inch chain

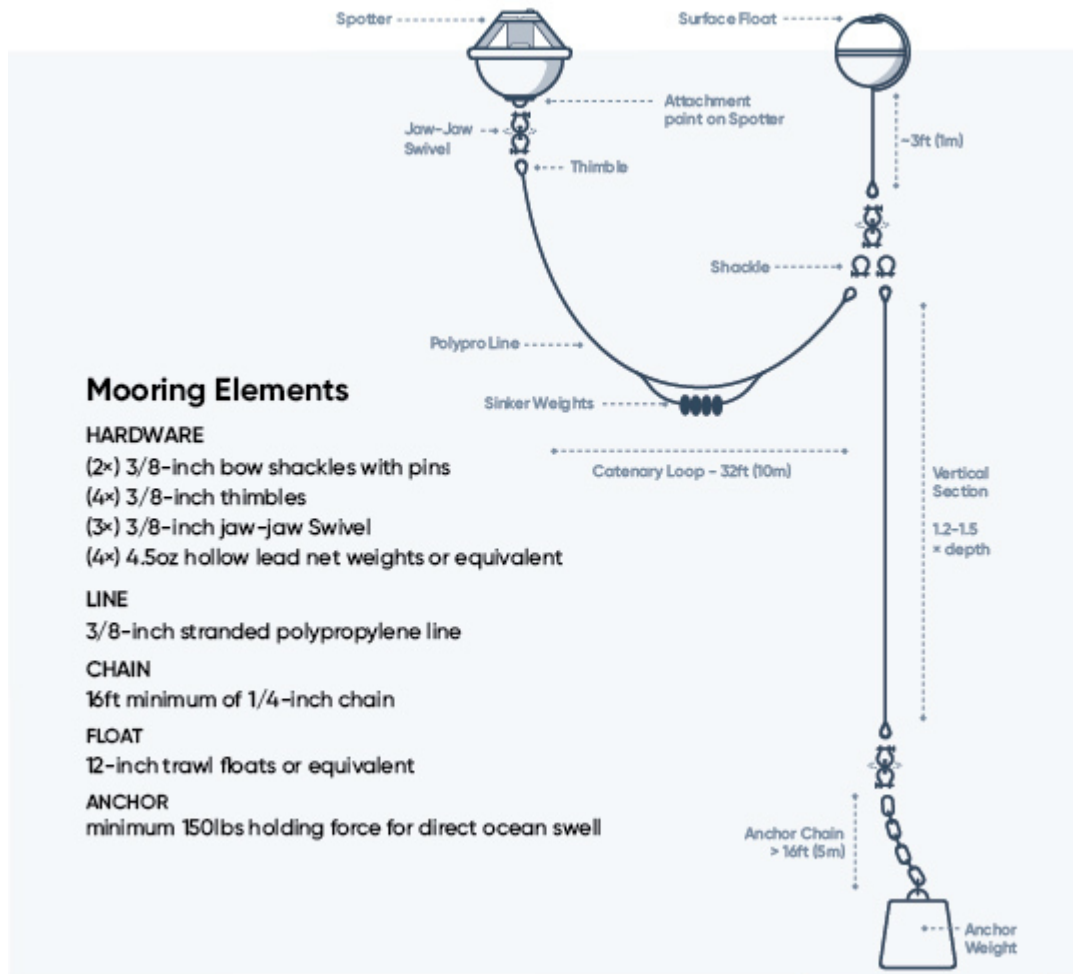
FLOATS

(2×) 12-inch trawl floats or equivalent

ANCHOR

minimum 150lbs holding force for direct ocean swell

ii. Single Catenary



Example Deployment Timeline

Phase	Time Period	Action	More Detailed Description
Pre-deployment: Information gathering		Pick out locations where it is most important to receive real-time wave data or start gathering a long term dataset.	Work with locals, buoy and mooring experts, regional ocean science orgs, IOOS RA Target Site Physical Characteristics <ul style="list-style-type: none"> ● Depth 35-200ft (10-60m) ● Bottom Type (Rock, reef, or sand) ● Outside the surf zone ● Outside of shipping lanes and areas of heavy boat traffic ● Current <1m/s ● For Pacific reef contexts <ul style="list-style-type: none"> ○ 1 km outside reef

			<ul style="list-style-type: none"> ○ Less than 12% grade on the reef face
Pre-deployment: Surveying and permitting		Survey deployment site	<p>Survey of deployment sites:</p> <ul style="list-style-type: none"> ● Referencing most up to date bathymetric data ● Traditional/experiential, historical measured observations, or modeled <ul style="list-style-type: none"> ○ Wave conditions ○ Tidal range ○ Current estimates ● Physical survey: <ul style="list-style-type: none"> ○ Inspection of bottom composition ○ Depth readings
Pre-deployment: Organizing and ordering		Design mooring, Develop deployment plan, get permits, order/ship systems	<p>Design mooring and anchor</p> <ul style="list-style-type: none"> ● Design <p>Deployment Logistics</p> <ul style="list-style-type: none"> ● Vessel and onboard equipment ●
Deployment Phase: Preparing for deployment		Build or order mooring, activating the buoy, verification that it is ready to go, deployment checklist	
Deployment Phase: Deployment			
Post Deployment Phase: Expanding data access pathways and alerts		Deployment, data logistics, setting alerts.	<p>Set alerts on the dashboard</p> <p>integrate into dashboard, app, or satellite based delivery systems, notify mariners of location and how to access data</p>
Post Deployment Phase: Servicing			