

# Alaska Emergency Towing Systems

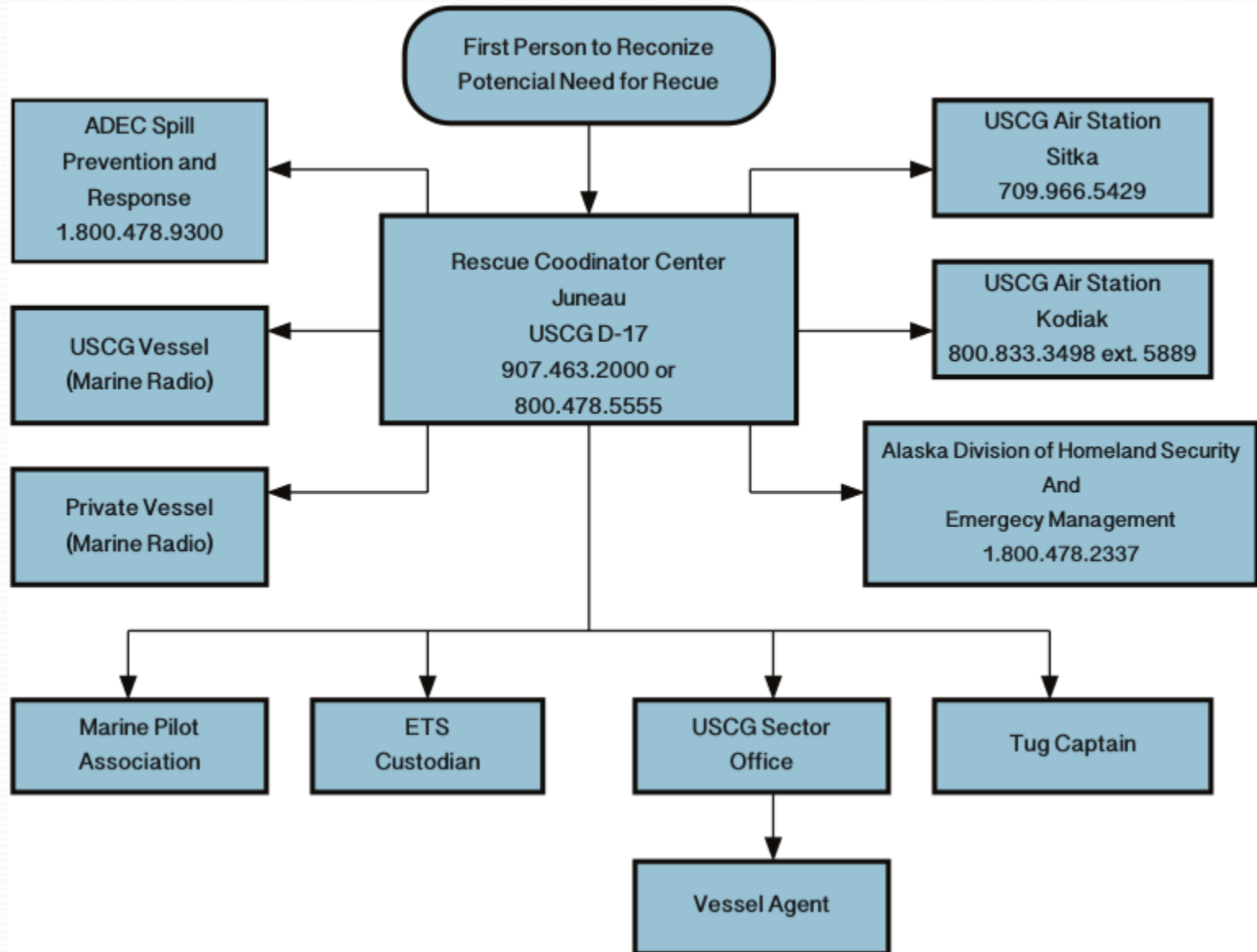


# ETS History

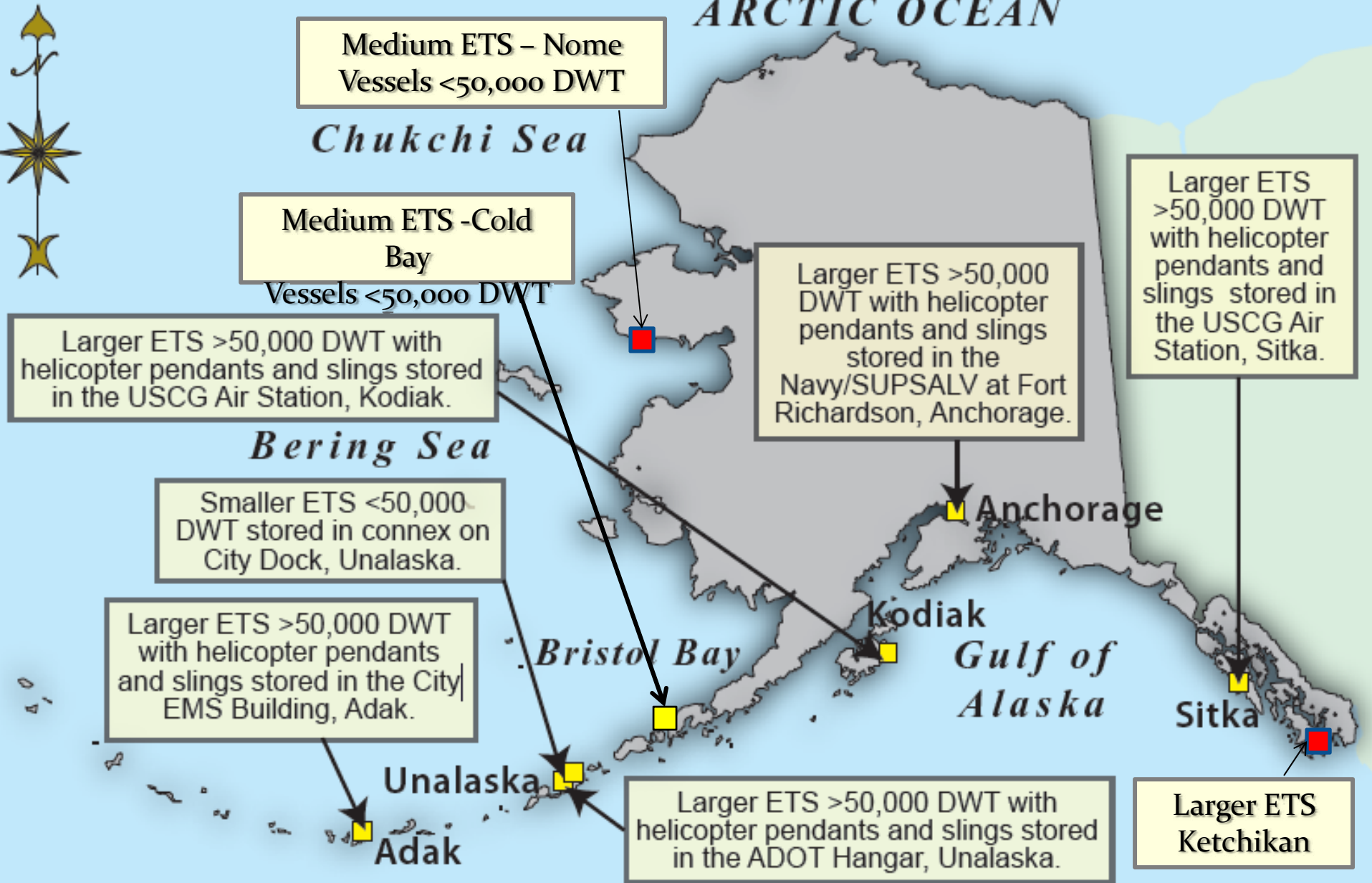
- **Background:**
  - Selendang AYU grounding in Dec. 2004
  - Cougar Ace in March 2006
  - Near grounding in March 2007 (Salica Frigo)
  - ETS Work Group formed
- Two ETS purchased for Dutch Harbor 2007
- ETS purchased for Coast Guard Air Station Kodiak 2008
- ETS purchased for Adak 2011
- ETS purchased for Coast Guard Air Station Sitka and a ETS for Anchorage 2011 (CIAP)
- ETS purchased for Cold Bay (Grant)
- ETS purchased for Ketchikan and Nome is on order 2013 (CIAP)



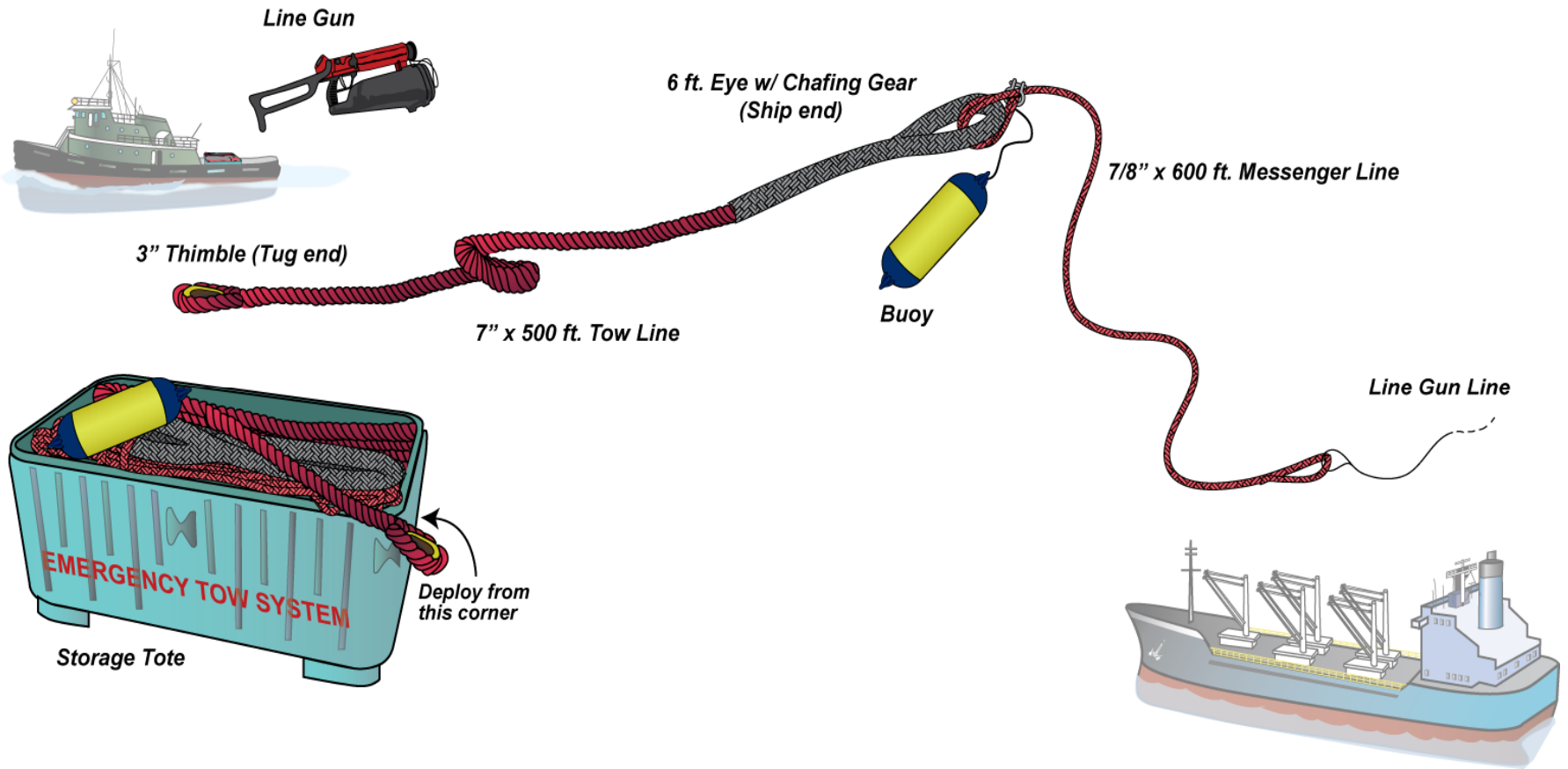
# Information Flow



# ETS Locations



# Tug to Ship Deployment

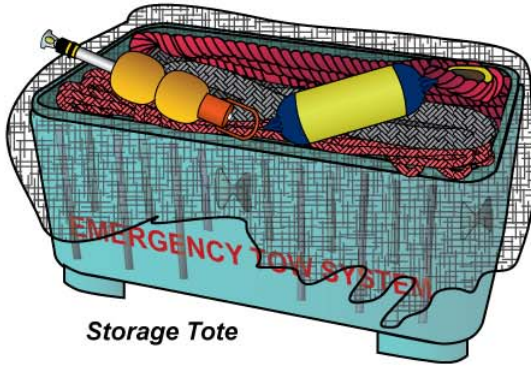


# Tug to Ship Layout





# Ship to Tug Deployment



Storage Tote



Helicopter with ETS  
to drop off on ship

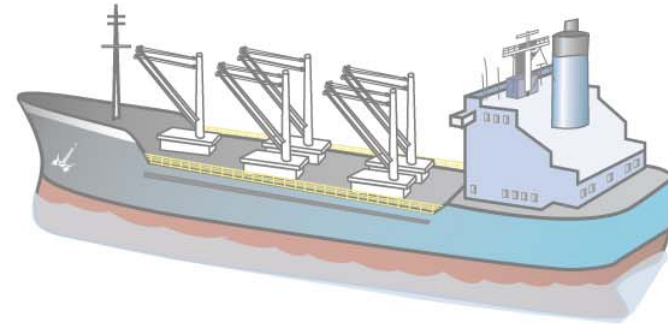
6 ft. Eye w/ Chafing Gear  
(Ship end)

7" x 500 ft. Tow Line

3" Thimble (Tug end)

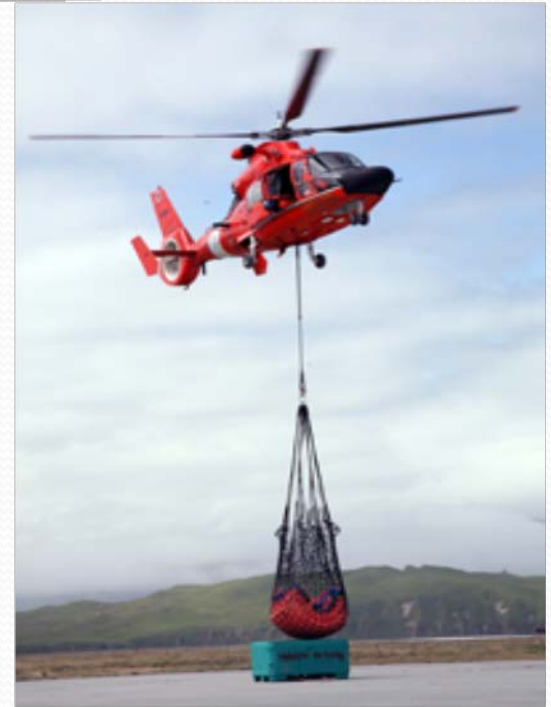
Buoy

7/8" x 600 ft. Messenger Line





# Air Deployable





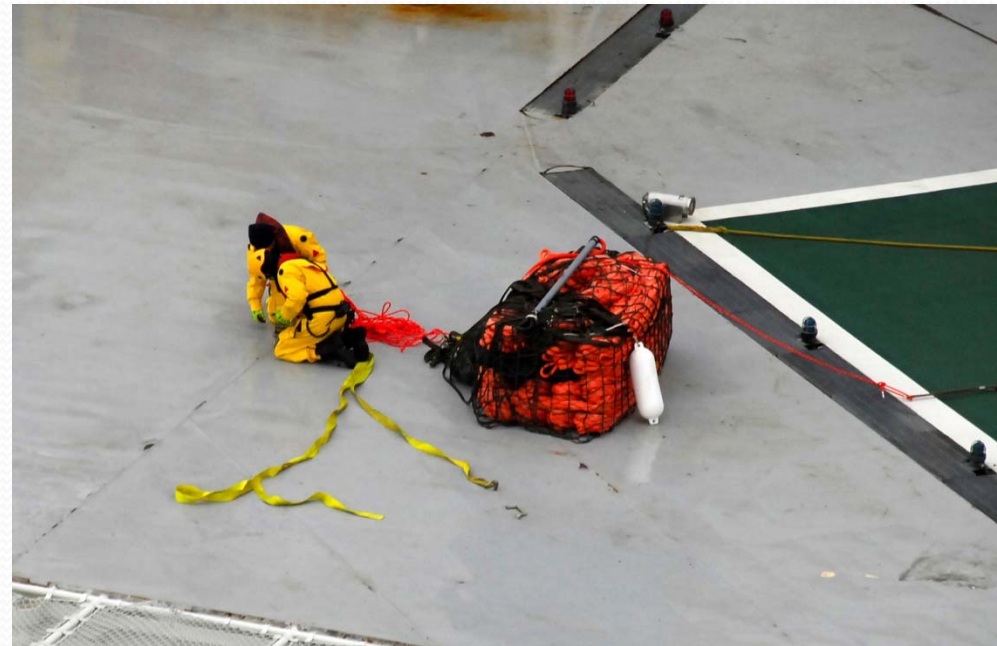
# A Successful ETS Employment: M/V Golden Seas (December 2010)





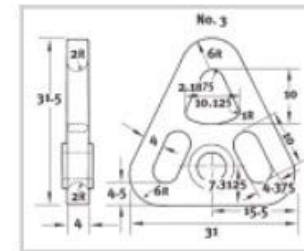
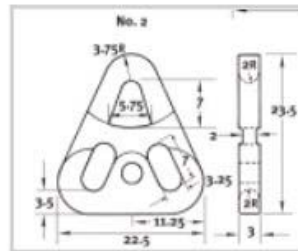
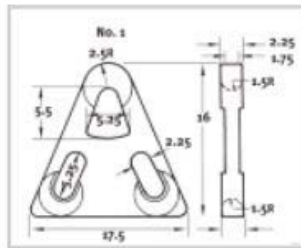
**The drill rig Kulluk aground  
north of Ocean Bay near  
Partition Cove –  
December 31, 2012**

**Salvage crew aboard the  
Kulluk receiving ETS which  
was deployed to the drill rig  
after it went aground.**



# Tow Plates

Simpler, stronger, and safer—that's the MARQUIP tow plate. Its patented design lets you rig the bridle with only three shackles, eliminating the extra weight, cost, time, and risk of older-style flounder plates. The No. 2 plate features an extra hole for a tandem shackle to tow additional barges, or to haul in the bridle. Cast from nickel-chrome steel, MARQUIP plates also provide maximum corrosion resistance. They are available in 300,000-, 485,000-, and 624,000-pound pull test capacities, and can be certified on request.



## Specifications

	No. 1	No. 2	No. 3
Shackle	1-1/2	2-1/4	3
Sizes*	1-3/4	2-1/2	4
	2	2-3/4 – 3	
Dimensions	17-1/2 x 16	22-1/2 x 23-1/2	31 x 32-1/2
Weight (lbs.)	70	170	548
Proof Test (lbs.)	300000	485000	624000

\*All dimensions in inches



2 1/2 inch Tow Shackle



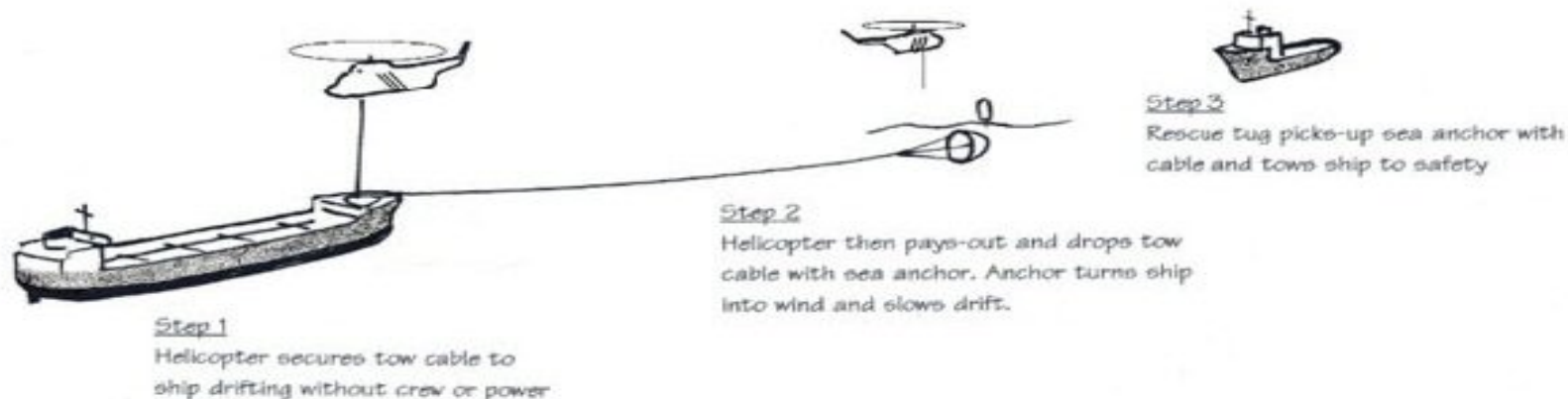
#10 synthetic tow thimble

Gary,

You may of heard of this, Tim Robertson brought this drogue system to my attention. I've included the link to the web page. I'm not a proponent lassoing the bow of a ship, but if we could reduce the drift by one knot, it may be enough to make a difference.

<http://gcaptain.com/ship-arrestor-dropping-giant-sea-anchors/>

## THE SHIPARRESTOR PRINCIPLE



Thank You



<http://dec.alaska.gov/spar/perp/ets/index.htm>