

Practical Boat Handling

- Distress signals
- Lights and sound signals
- Radio
 - Calling procedure
 - Channels
 - Practice what to say, where to find data

FI (2)

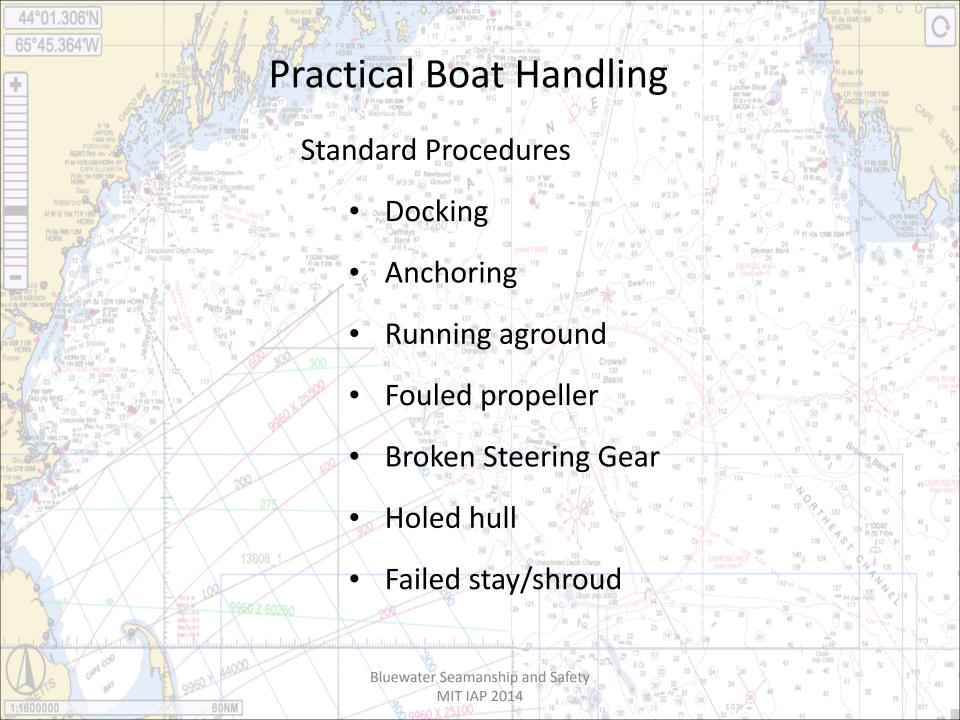
Mayday / Pan Pan / Securite

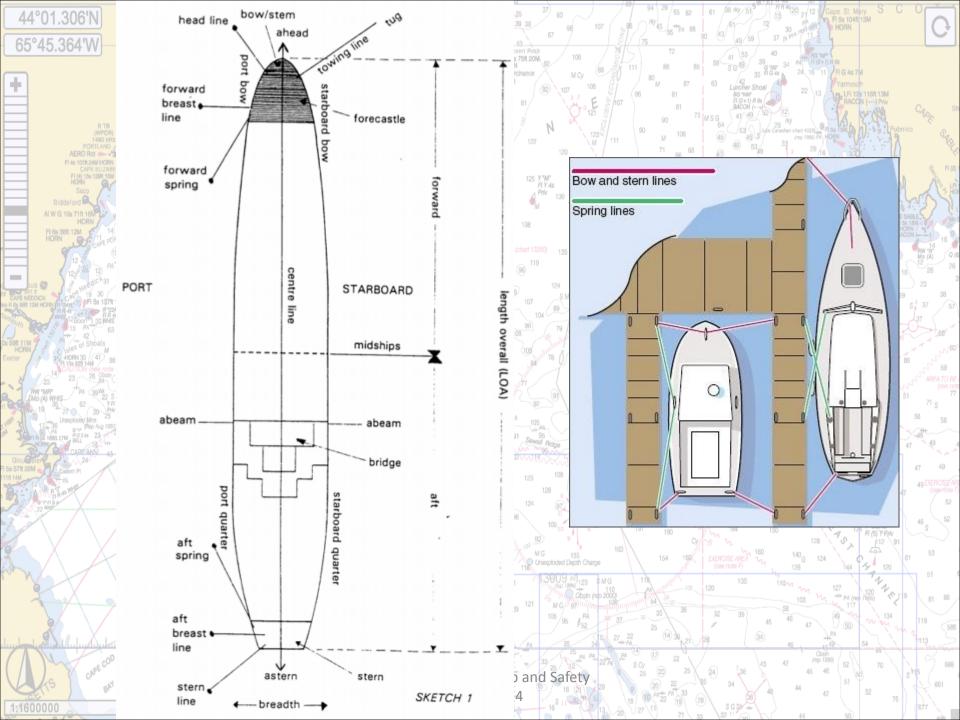
Bluewater Seamanship and Safety MIT IAP 2014 $\frac{70}{20}$

Practical Boat Handling

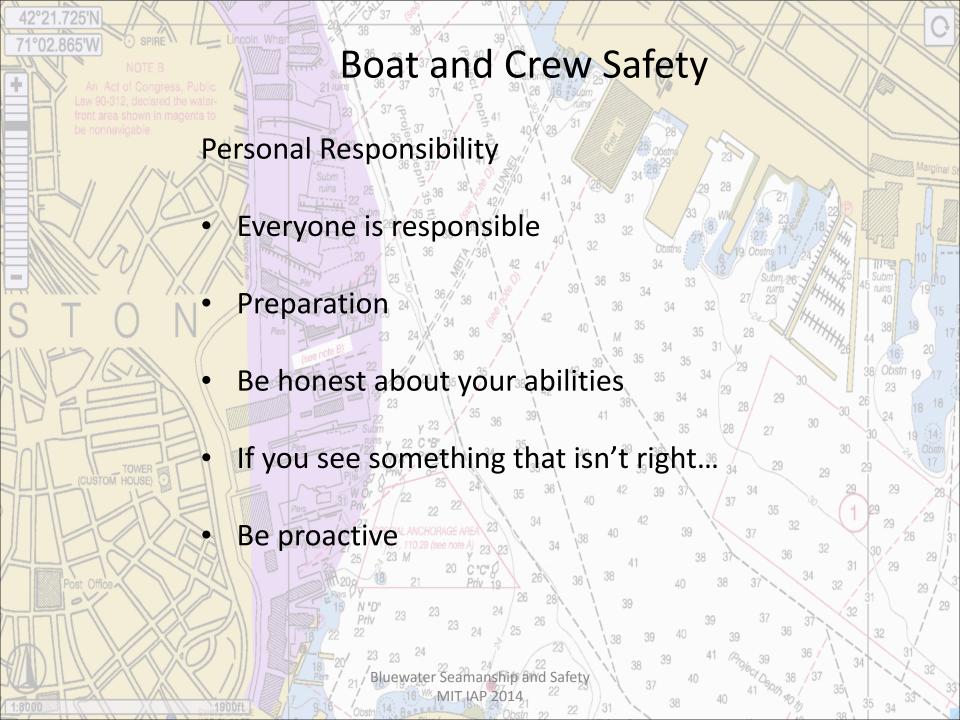
Pan Pan, Mayday, or Securite?

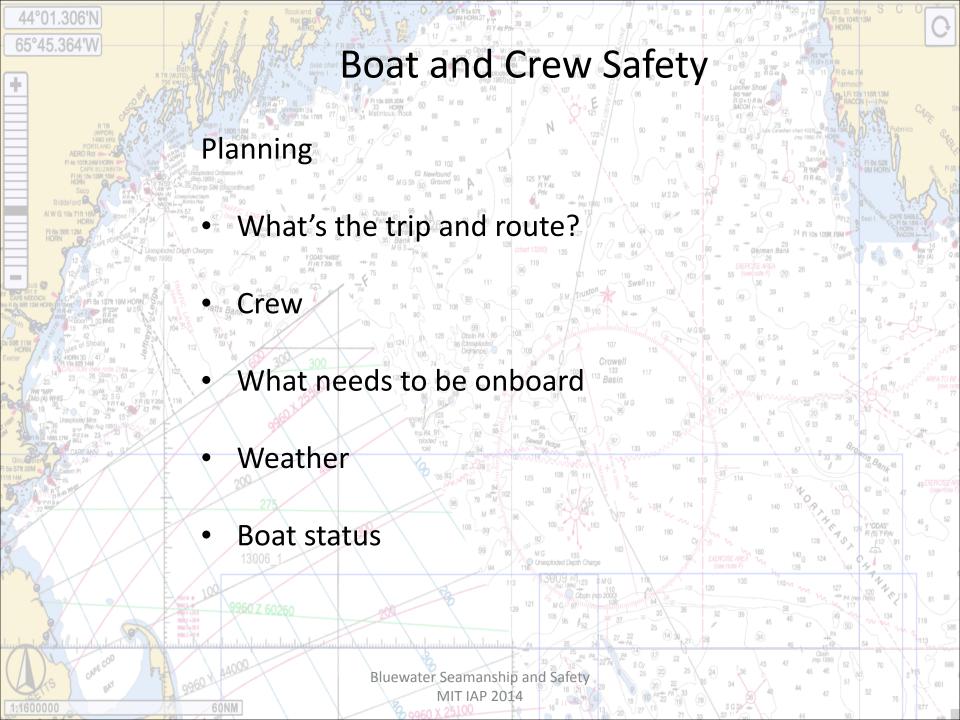
- You see a large floating log in the main ship channel that could be a hazard to small boats.
- You are offshore, and a passenger starts complaining of chest pains.
- In Boston Harbor, a thru-hull fails and the boat starts filling with water, near the capacity of the primary bilge pump.
- On a spinnaker reach, your unsecured whisker pole whips forward and whacks a crewmember in the head, who drops to the deck senseless.

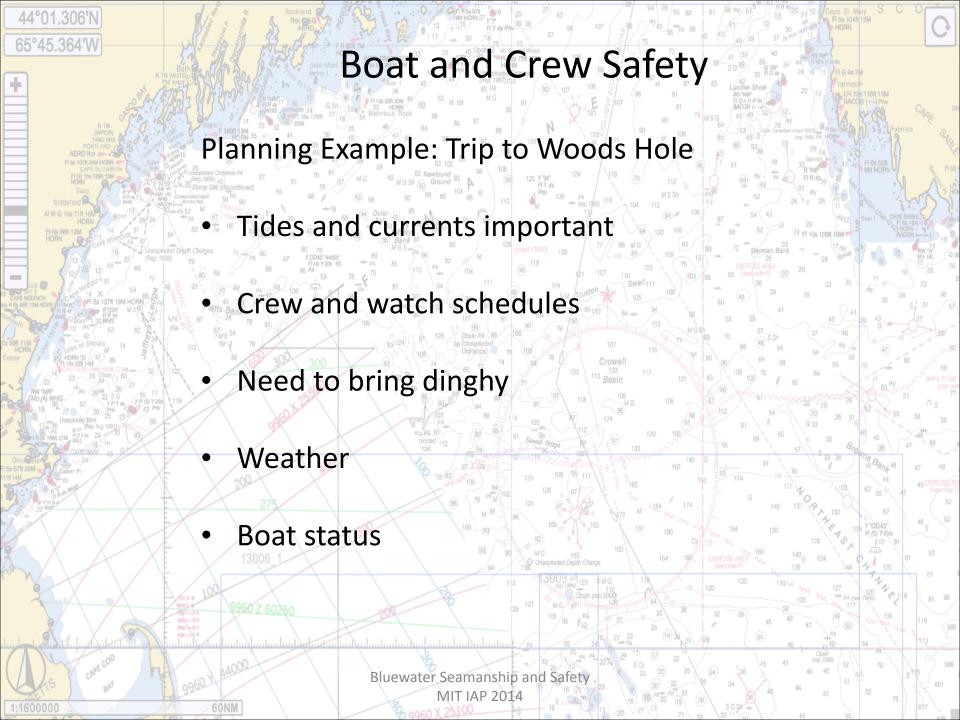


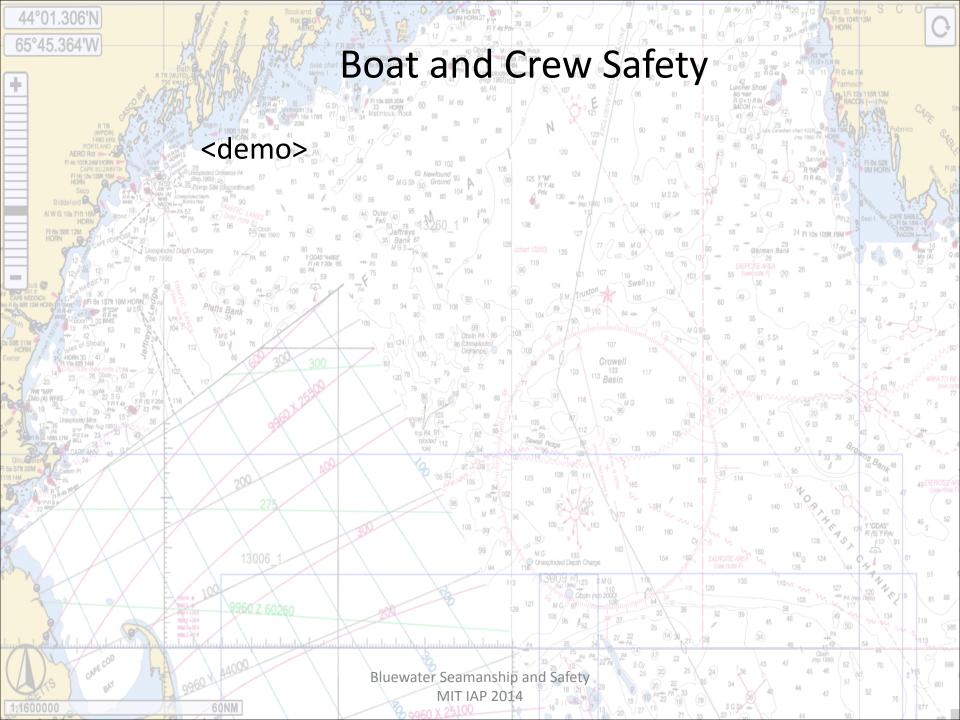


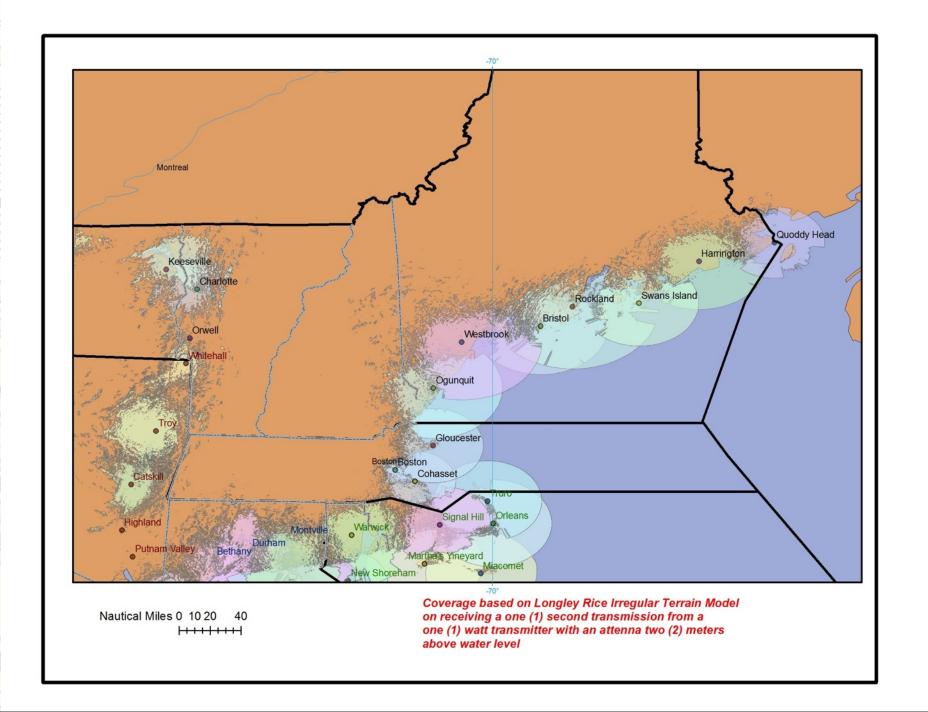


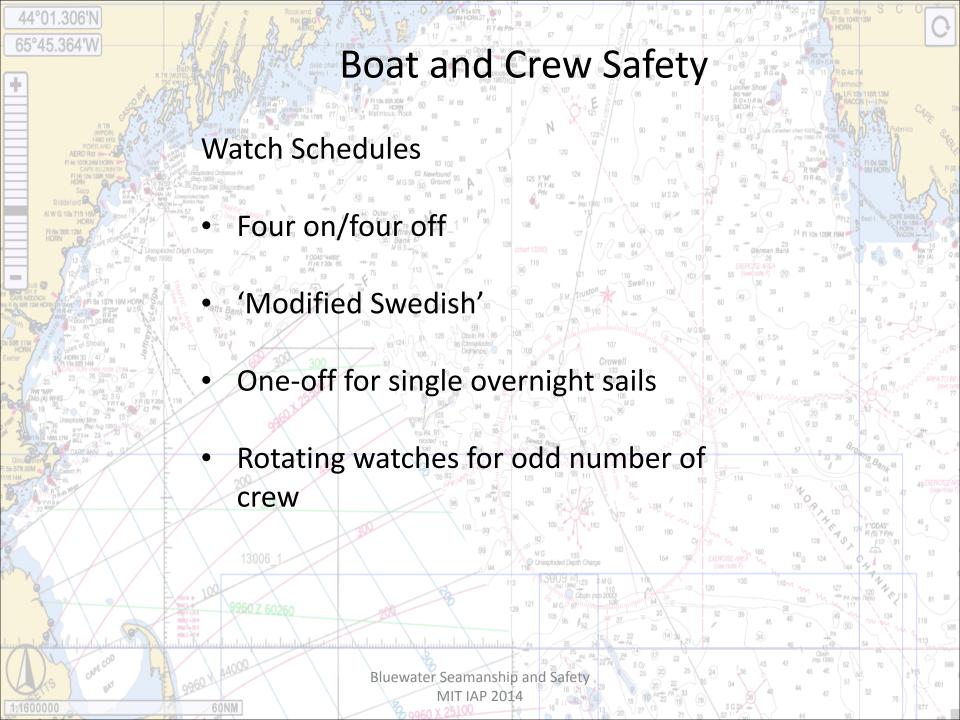


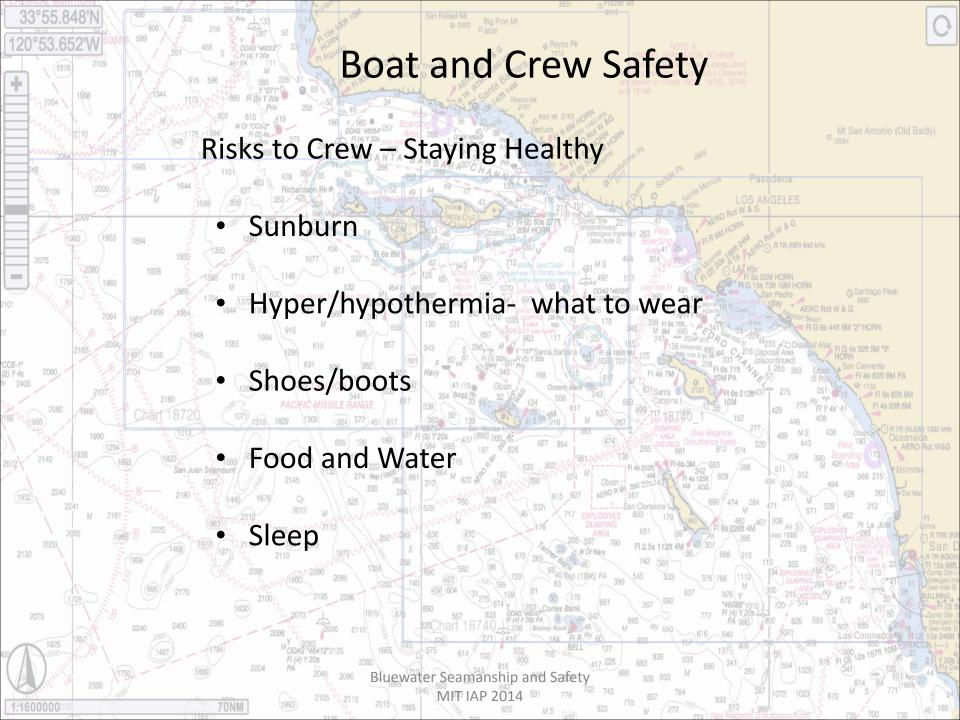


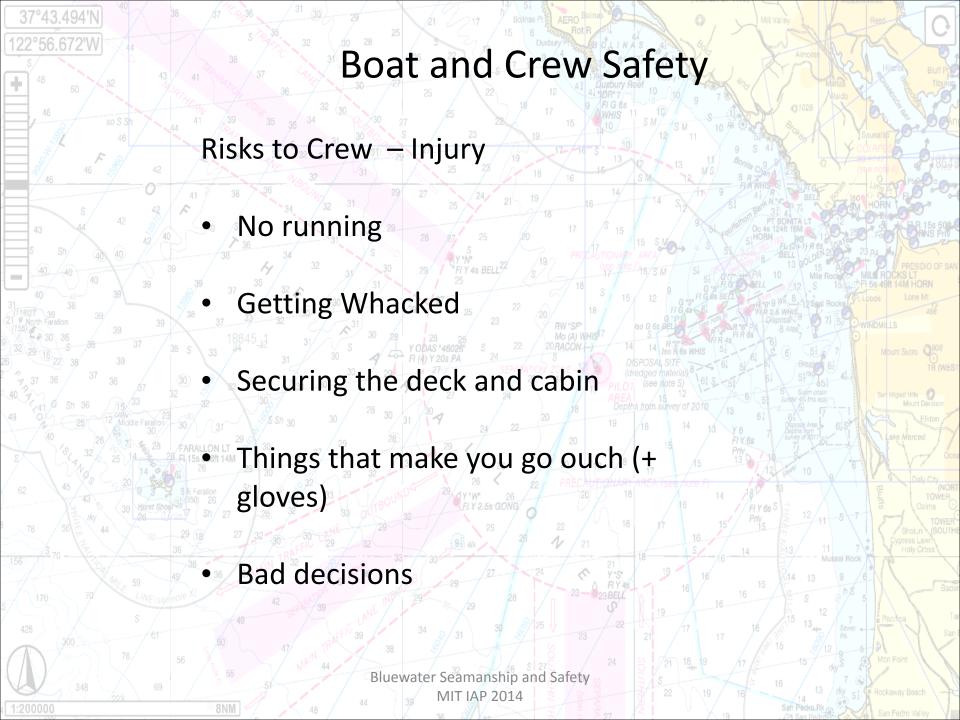


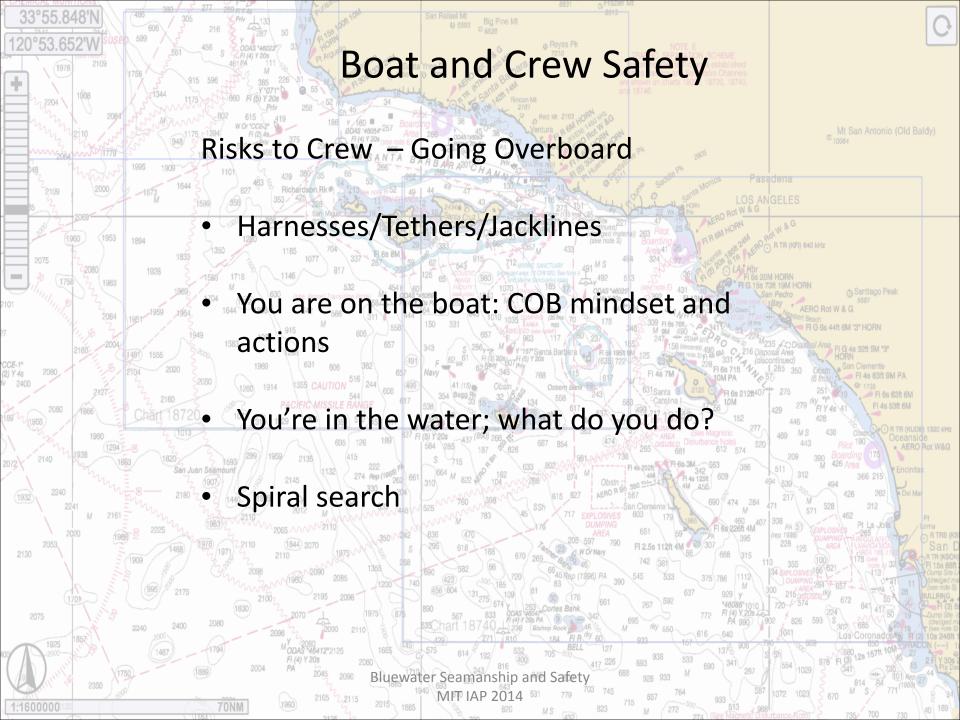


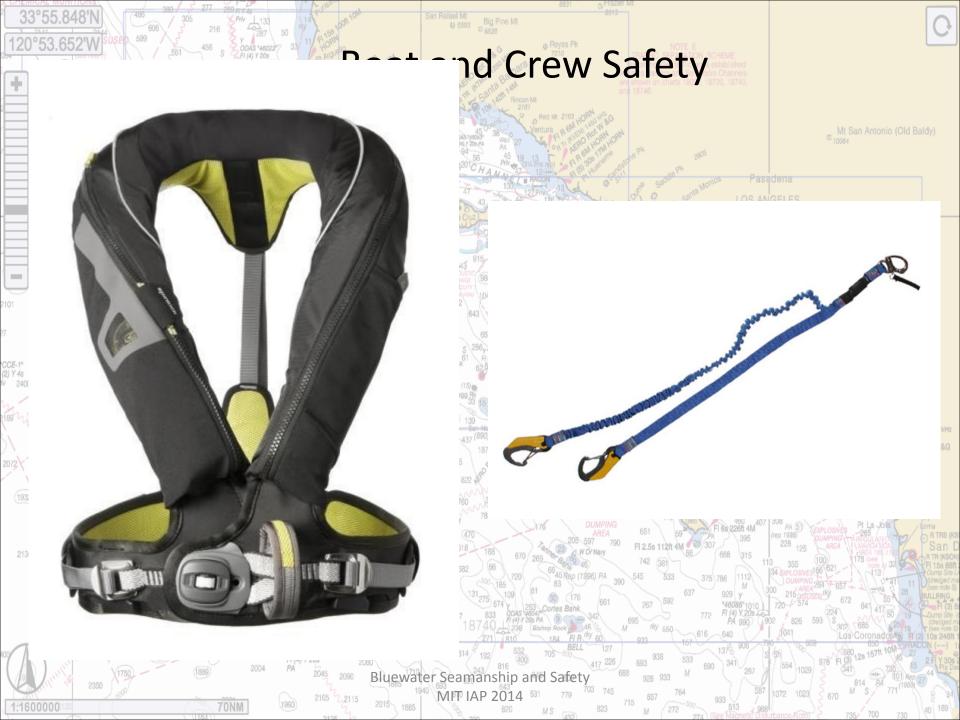


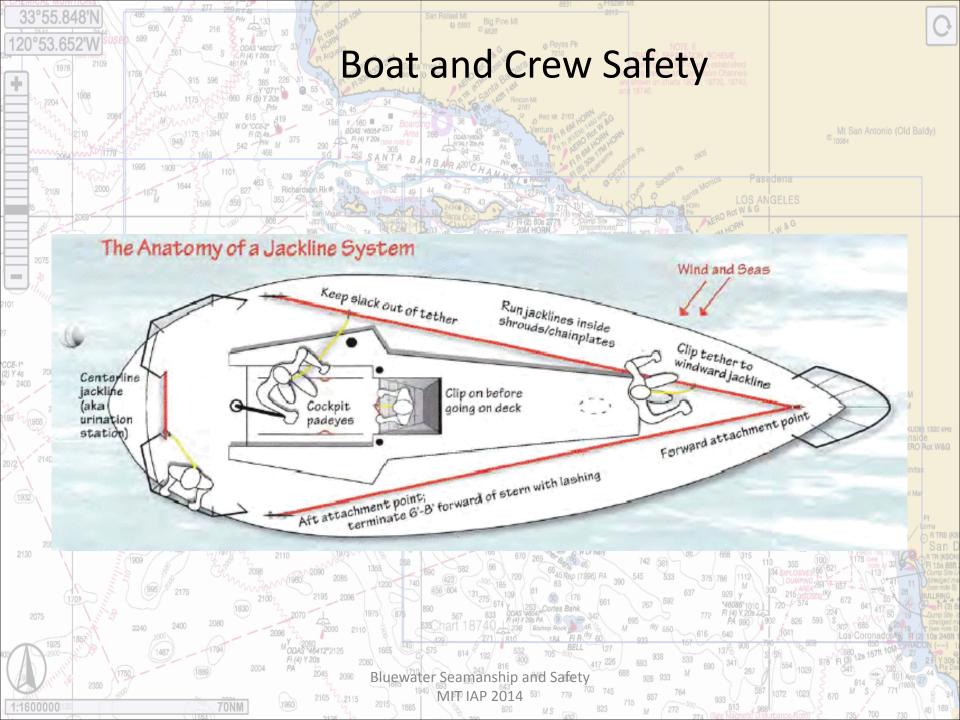


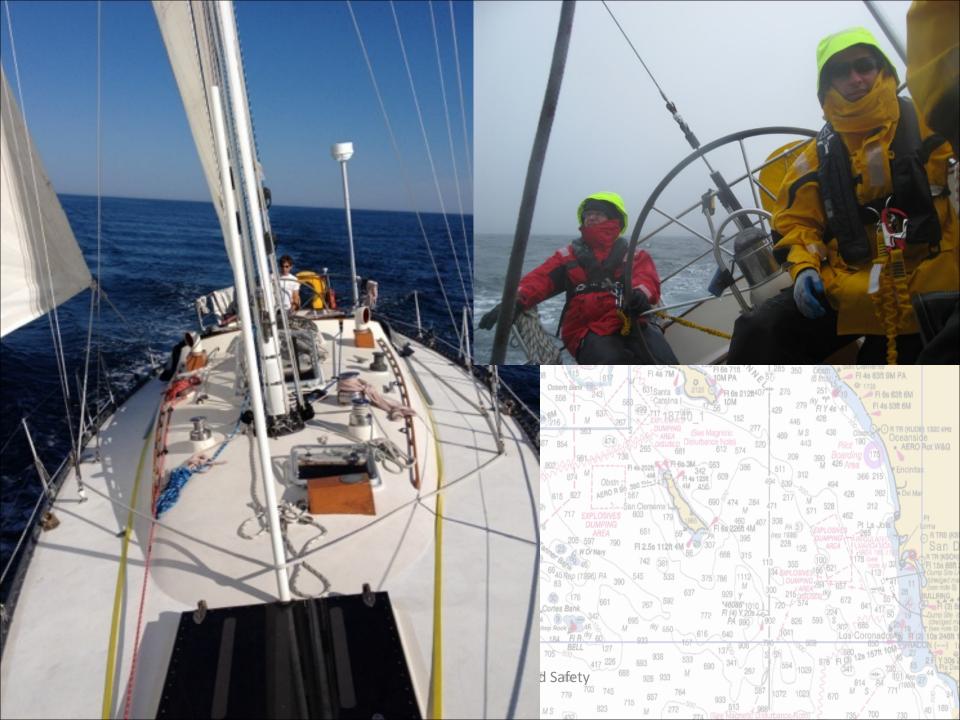


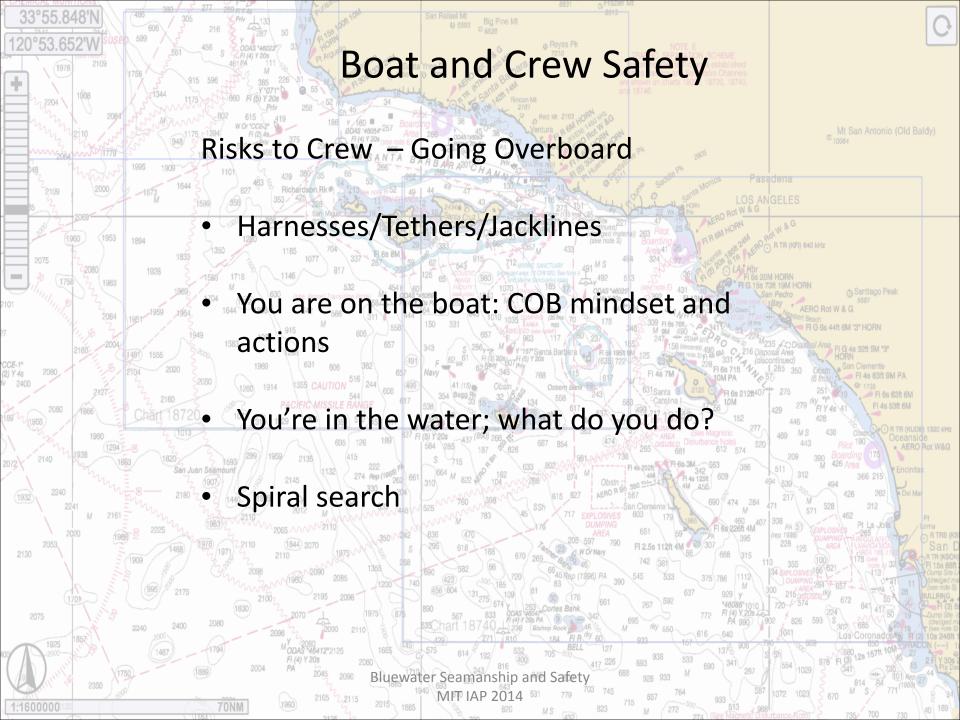












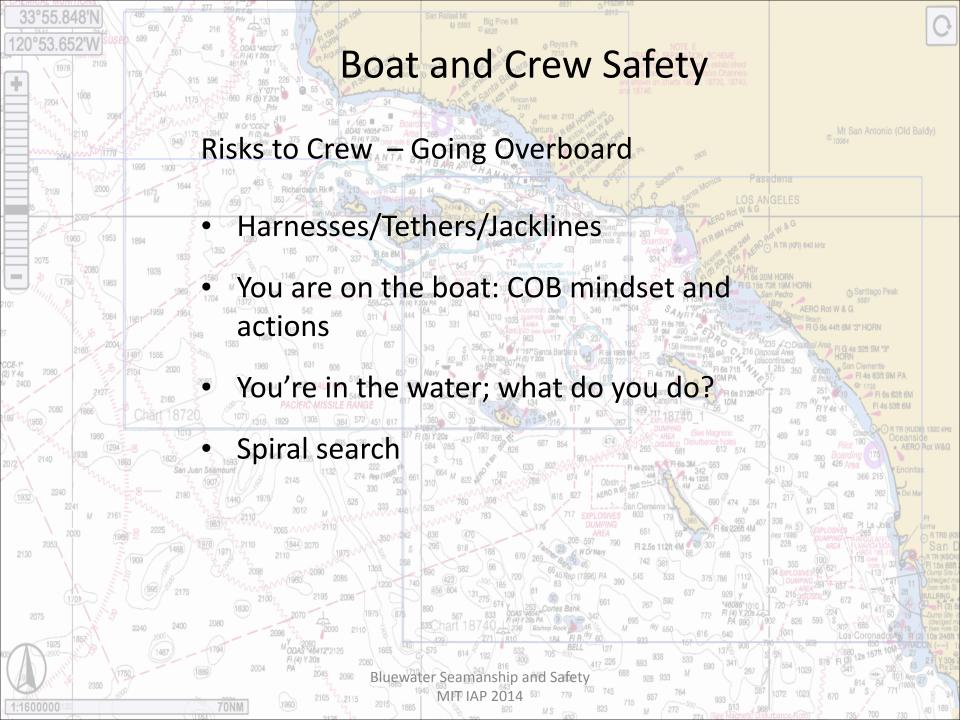
Crew Overboard Strategy

- 1. A clear chain of command
- 2. Mark the spot
- 3. Most important task: seeing the COB
- 4. Attaching the COB to the boat

Key tips:

- Furl the jib to control speed/reduce complexity
- No style points for rescue under sail; start the engine
- Only through periodic drills can you be prepared for the real event







urposes is considered equivalent to the World Geodetic stem of 1984 (WGS 84). Geographic positions referred the North American Datum of 1927 do not require

Boat and Crew Safety - Stories

I was the skipper.. The boat hit the submerged rocks between the deer island light and deer island under both full sail and motor. I am not sure exactly how fast we were going but it was somewhere between 7-10 knots. Thekeel sheered right off and the boat rolled immediately.

The short story is that I was out with an inexperienced crew and was not attentive enough, lost focus on the big picture, and made some very bad assumptions about the crew's ability and knowledge despite having been out with the crew at the helm 3 times and having given specific instruction about channel markers and about the deer island light in particular. My fault as the skipper entirely. I am thankful that there were no serious injuries.

I <mark>am not a very experienced sailor but have b</mark>een sail<mark>ing off and on fo</mark>r 25 ye<mark>ars. Have s</mark>ailed 100+ hours in Boston harbor both as a skippel and as a student getting one on one instruction on a CC36....

I had been out the previous weekend as skipper with the high winds and perhaps I was lulled in to a false sense of lax security by the mild conditions and the fact that the day was going so well with crew all taking turns at the helm under my supervision. Truly an idyllic day sailing with friends and our children. After being under sail for 3 hours or so we ventured out in to the south channel (when we passed deer island light on the way out I specifically reiterated to crew that it needed to be off our port bow due to under water obstructions between it an deer island and again went over red-right-returning). I put the boat on a heading that would have taken it out the south channel without further tacks and gave the helm to crew (adult) with a visual heading (white gas storage tank on far shore). I then went below for the 1st time since we had set sail to use the head and while down there I received a cell phone call that distracted me. I was in the cabin for perhaps 10 mins (during which time I had called up to the helm to ask if we were in the channel to which I received an affirmative reply) and I feel a bump. I jump back to the cockpit and find that we are south of the channel near the area of Rams Head off of Lovell island. I immediately rounded the boat to port and head back in to the channel heading back in and engage the engine.

... Even though we didn't ground hard it was still a bump and I explained to the crew that we were headed back in as I didn't want to take any chances. ... The boat was now motor sailing towards deer island light and I asked the crew to come to the helm while I went below to check for leaks. I pumped out the toilet, ran the bilge, checked under the floor boards and the engine compartment and didn't see any leaks. The crew had pushed the throttle to its stop and I called up to ask that they throttle back as I couldn't hear anything over the sound of the engine (wanted to see if I could hear any water sloshing about). The next thing I know there is the loudest crash I have ever heard, I am flying through the air full length of the boat and land on my back toward the bow. The scene has gone from everything ship shape to floor boards, cushions, and other debris all floating around the cabin and the within what seemed like seconds there was water up to my waist and the boat was rolling under. I pushed my 10 year old daughter up and out of the cabin (she had been wearing her PDF since boarding) where she climbed up on to the rail that was still out of the water, I turned the VHF to 16 and put out a mayday call that I repeated twice and then swam out of the cabin off the boat. The crew were all calm and had climbed part way on to the hull which was the only part of the boat above the waterline at that point. Within what was probably 10-15 minutes the MEP picked us up and did a great job.

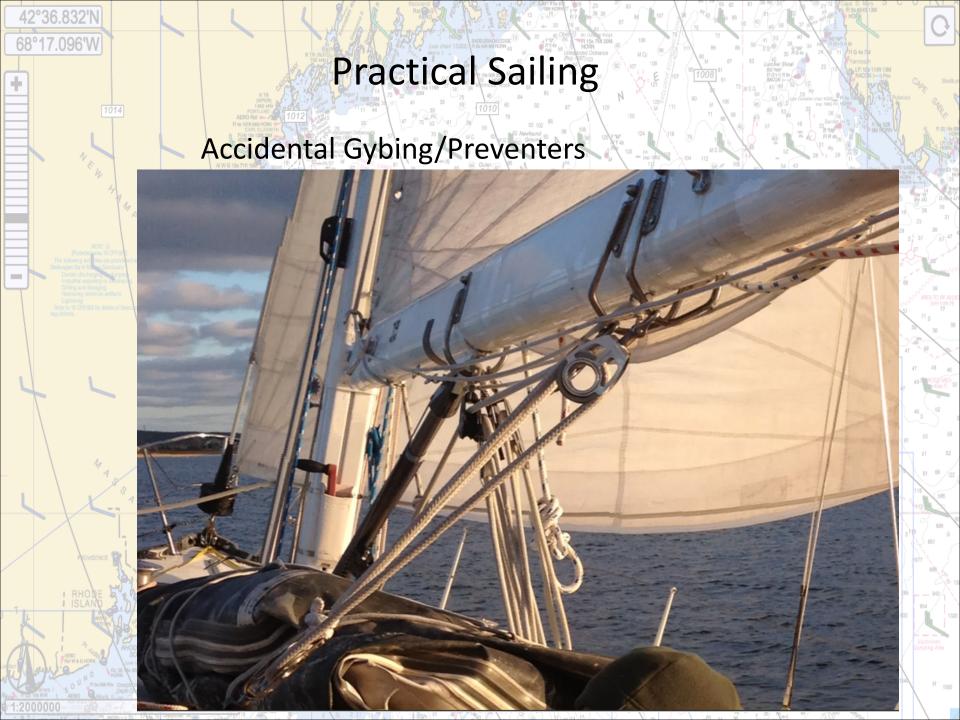
Yes I feel like a complete idiot for letting happen and I know we got very very lucky and I am incredibly thankful for the first responders that did such an excellent job.

Bluewater Seamanship and Safety
MIT IAP 2014











A Polar Example



BOAT SPEED AS A FUNCTION
TRUE WIND VELOCITY & ANGLE

Yacht AUDACIOUS

NAVY 44 44 LOA NA-1 MASTHEAD SLOOP 150% JIB, KEEL Folding Exposed Prop

WIND	OPTIMUM VMG BEAT	OPTIMUM VMG RUN	OPT RUN
		4.42 °	
8 kt	4.375	143 °	
10 kt	5.241	146 °	
12 kt	6.008	158 °	
16 kt	7.246	171 °	
20 kt	8.040	174 °	
Notes:			
Boat - s	peed curves are	e	
	erent true wind		

• optimum run angle

velocities as shown at right:

Run: 5/20/87 8:49:12 Cert 19065 Copyright 1987 USYRU Newport, RI

