Introduction to Sailing, Class 2

Yacht Club Bar Song, Chorus

I love to sit around the yacht club bar
and talk about the things we're going to do.
I love to sit around the yacht club bar
because it doesn't move.
The swells are big and the winds are high
but that don't bother me.
Cause I never get lost and my tummy doesn't toss
It's a wonderful life on the sea.

Yacht Club Bar Song, Verse 2

I took her out one Sunday, we got about five miles out

The wind it was a screaming, right dead out of the south.

The waves they must have been two feet high, the swells at least one more.

I’m so lost and my tummy is tossed, I’ll never get back to the shore.

Yacht Club Bar Song, Chorus

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Core Concept in Sailing (review)

How the Boat is Oriented to the Wind

Implications:

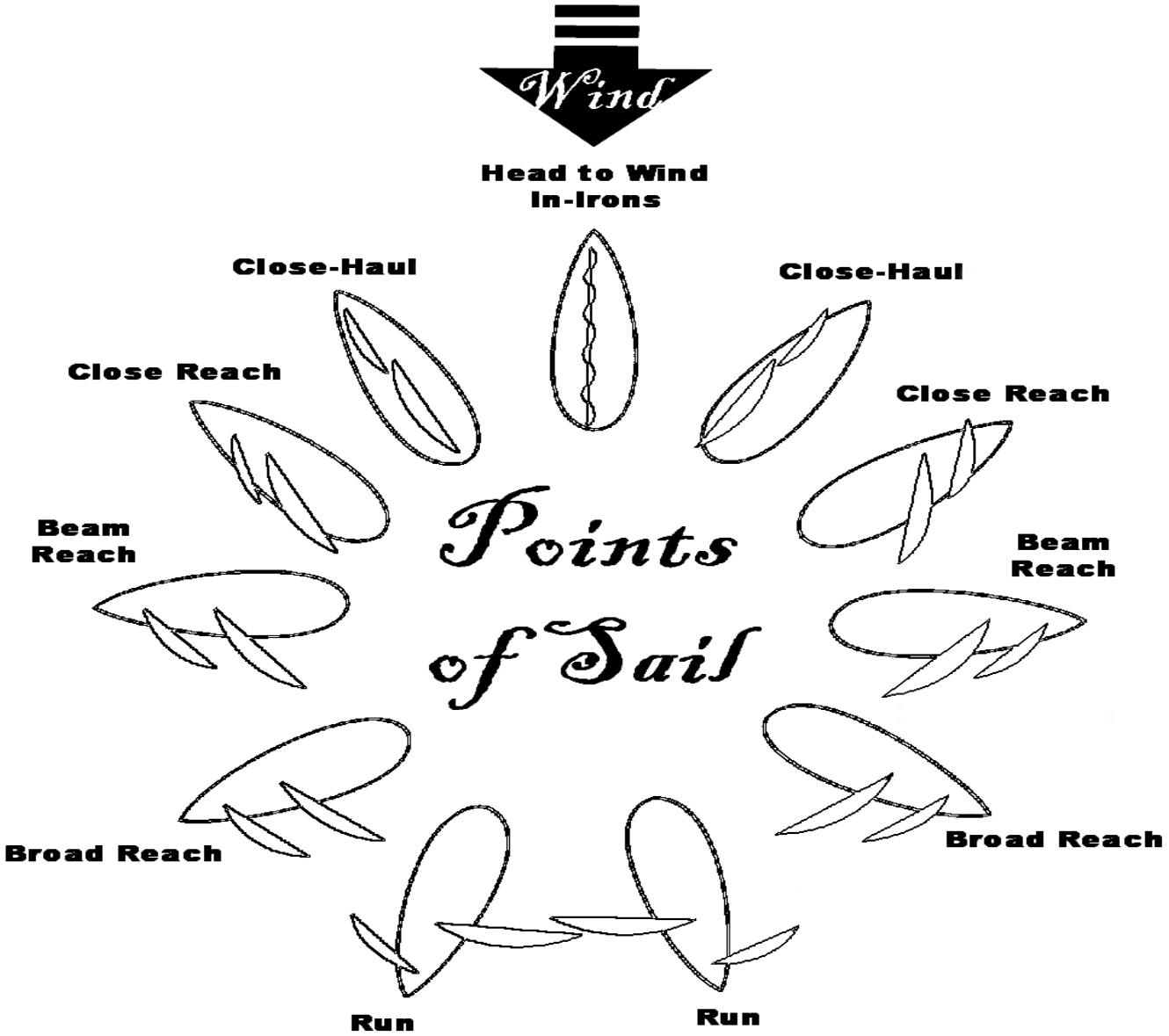
Must keep track of wind direction.

We need terminology to describe boat's orientation to wind.

Orientation of boat to the wind determines how far we trim out the sails.

See *Basic Keelboat*, p. 15

Points of Sail (review)



See *Basic Keelboat*, p. 15

Points of Sail

You Must NOW Start Trying to Integrate Points of Sail into:

- Thinking about Sailing
- Thinking when Sailing

Requires:

- Awareness of Boat Orientation to Wind
- Understanding Implications for
  - Sail Trim
  - Helming

See *Basic Keelboat*, p. 15

Points of Sail

What is a Common Source of Confusion when Sailing about What to Do and What is Happening?

Lack of Awareness of the Boat's Orientation to the Wind and its Implications

View short Video Showing an Example:

Sailing Videos DVD, first segment

Turning the Boat so that the Wind is on the Other Side (review)

With wind in front:

Tacking, or

Coming About

With wind in back**:**

Jibing

Study Questions

Go over 1st half of study questions.

Tacking, Step-by-Step

Basic Keelboat, pp. 44-45

Tacking Videos, Discussion

Tacking Videos - Observe: What are people doing to execute the tack?

- Working the sheets
- Helming

Basic Keelboat, pp. 44-45

Jibing, Step-by-Step

Basic Keelboat, pp. 46-47

Comparison to Tacking

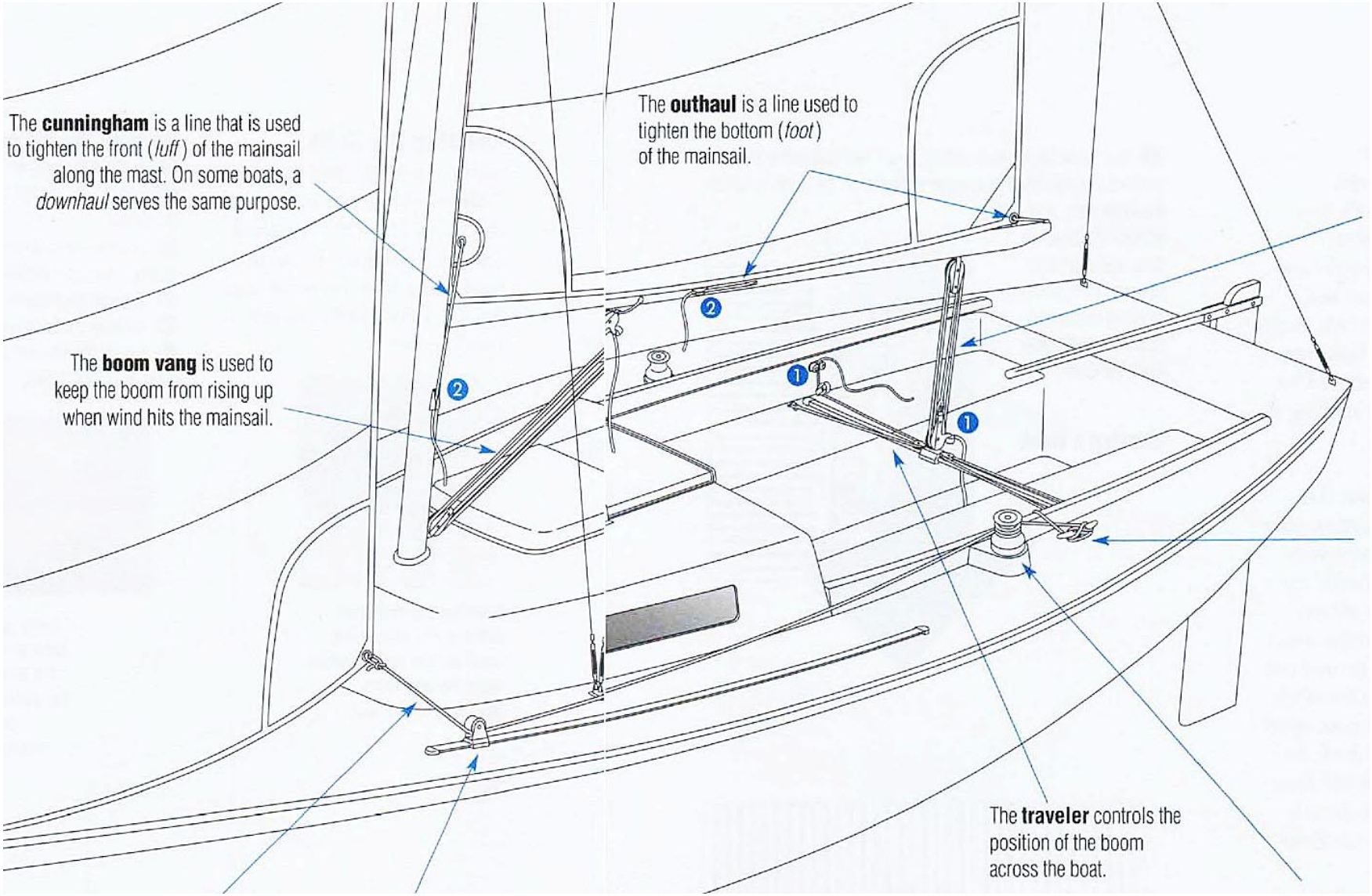
- Implications for Handling Sheets
- Implications for Helming

Tiller Steering

Basic Keelboat, p. 37

Sail Control Equipment

Basic Keelboat, pp. 32-33


The **cunningham** is a line that is used to tighten the front (*luff*) of the mainsail along the mast. On some boats, a *downhaul* serves the same purpose.
The **outhaul** is a line used to tighten the bottom (*foot*) of the mainsail.
The **boom vang** is used to keep the boom from rising up when wind hits the mainsail.
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The **traveler** controls the position of the boom across the boat.

Navigation

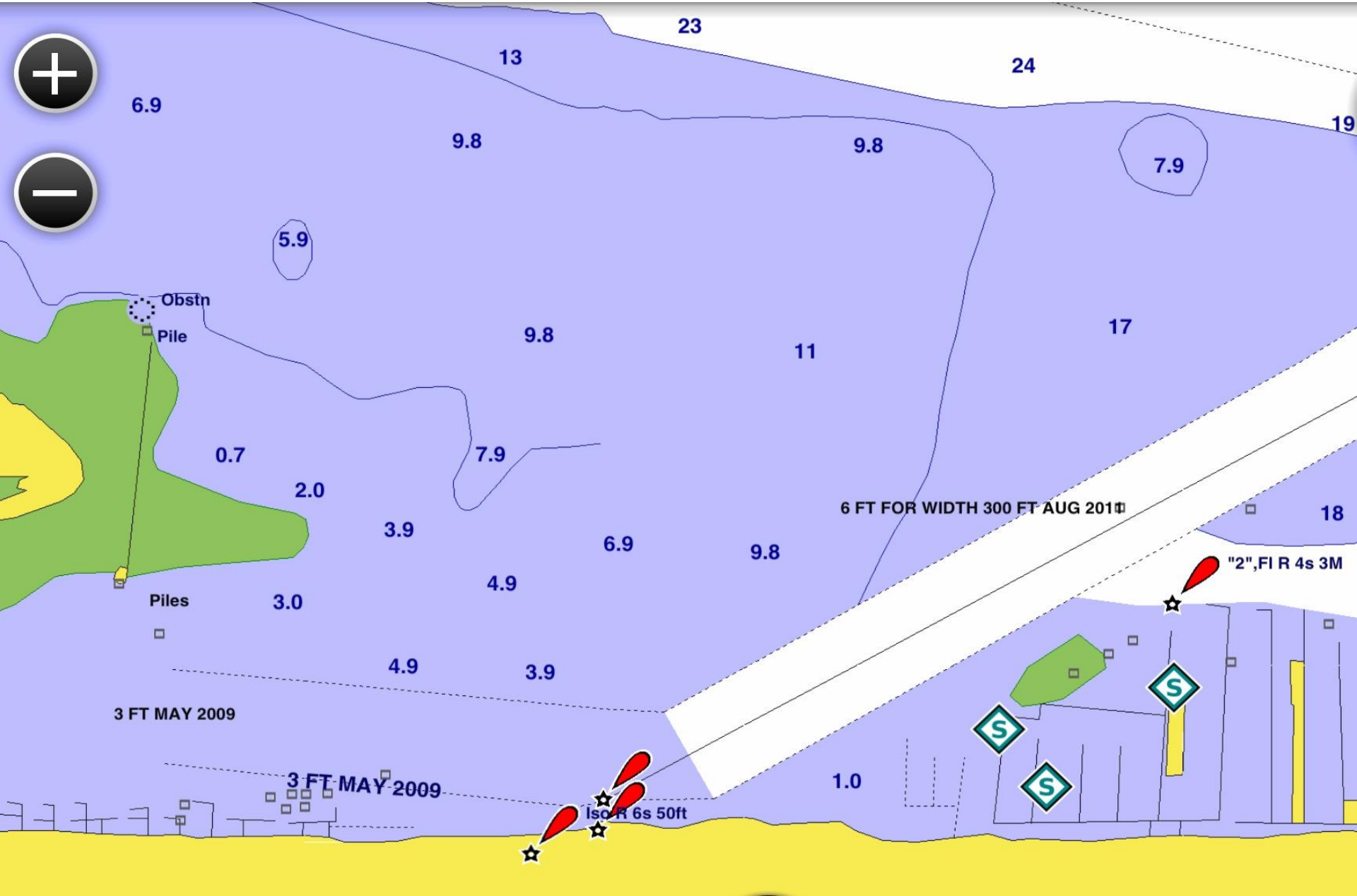
Nautical charts – Most important tool

Will use some local chart examples

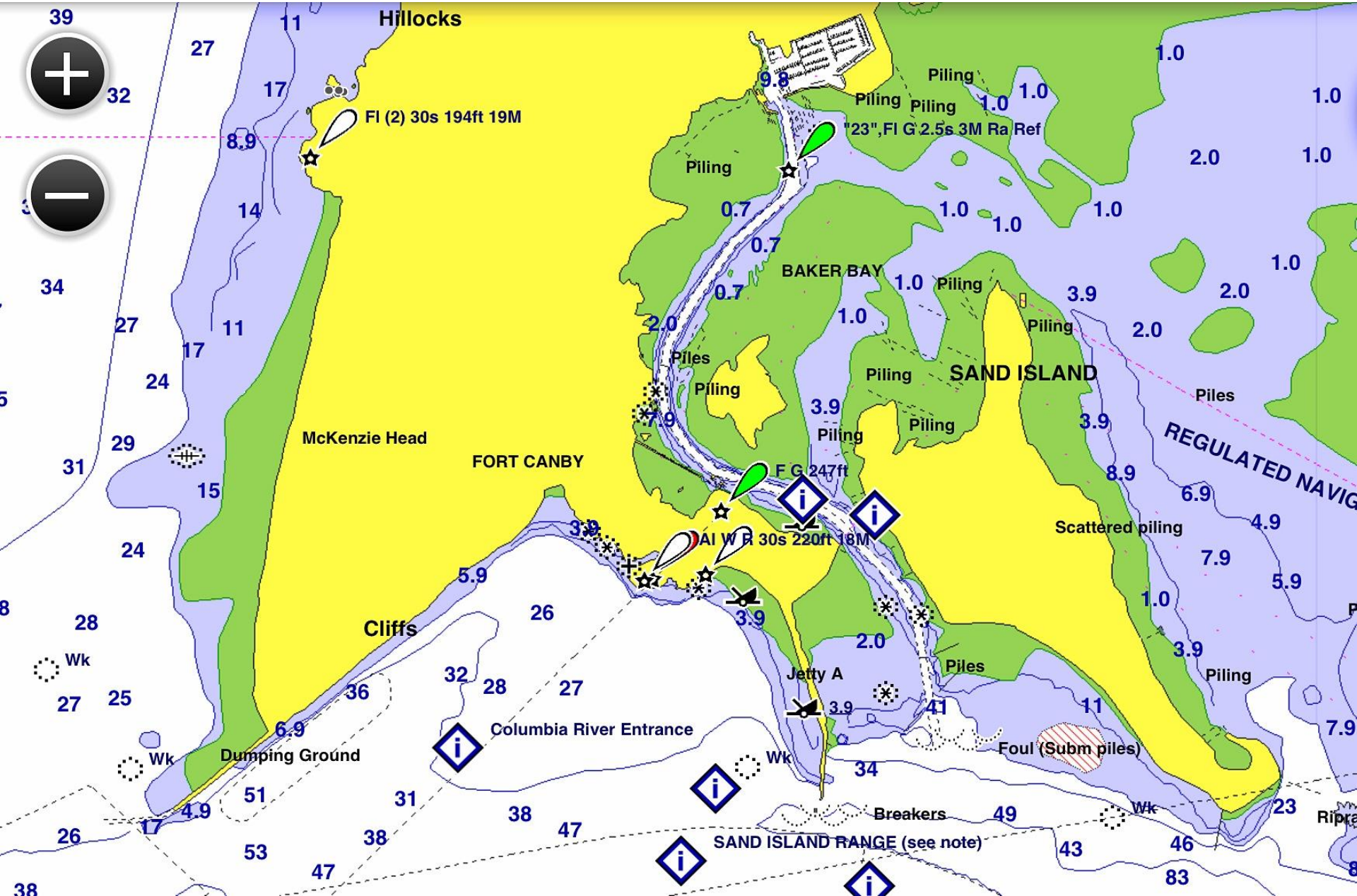
Look at charts, compare to photos, maps

(Covered a little in Basic Keelboat, Part 5.)

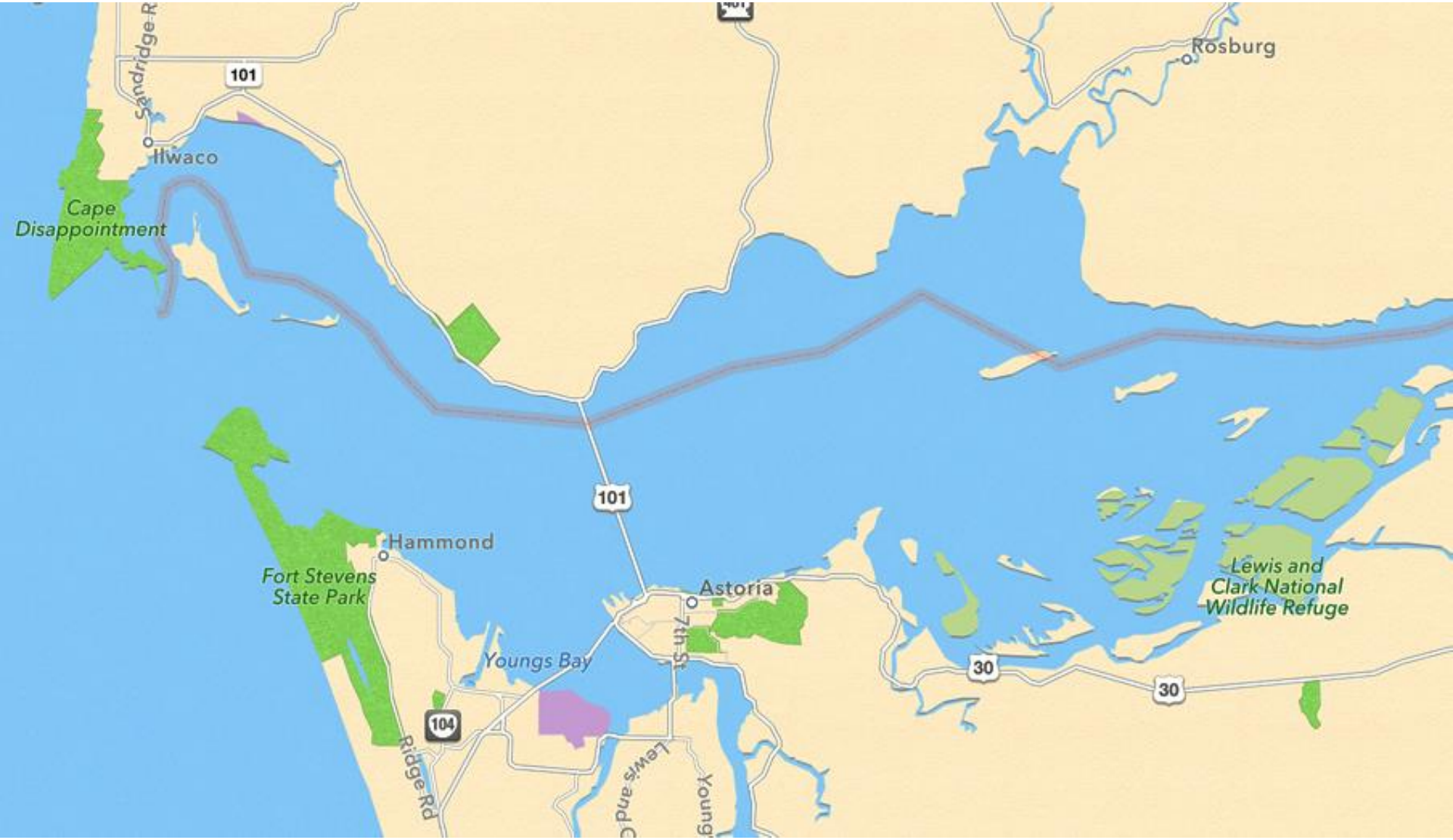
Columbia River Chart, Portland



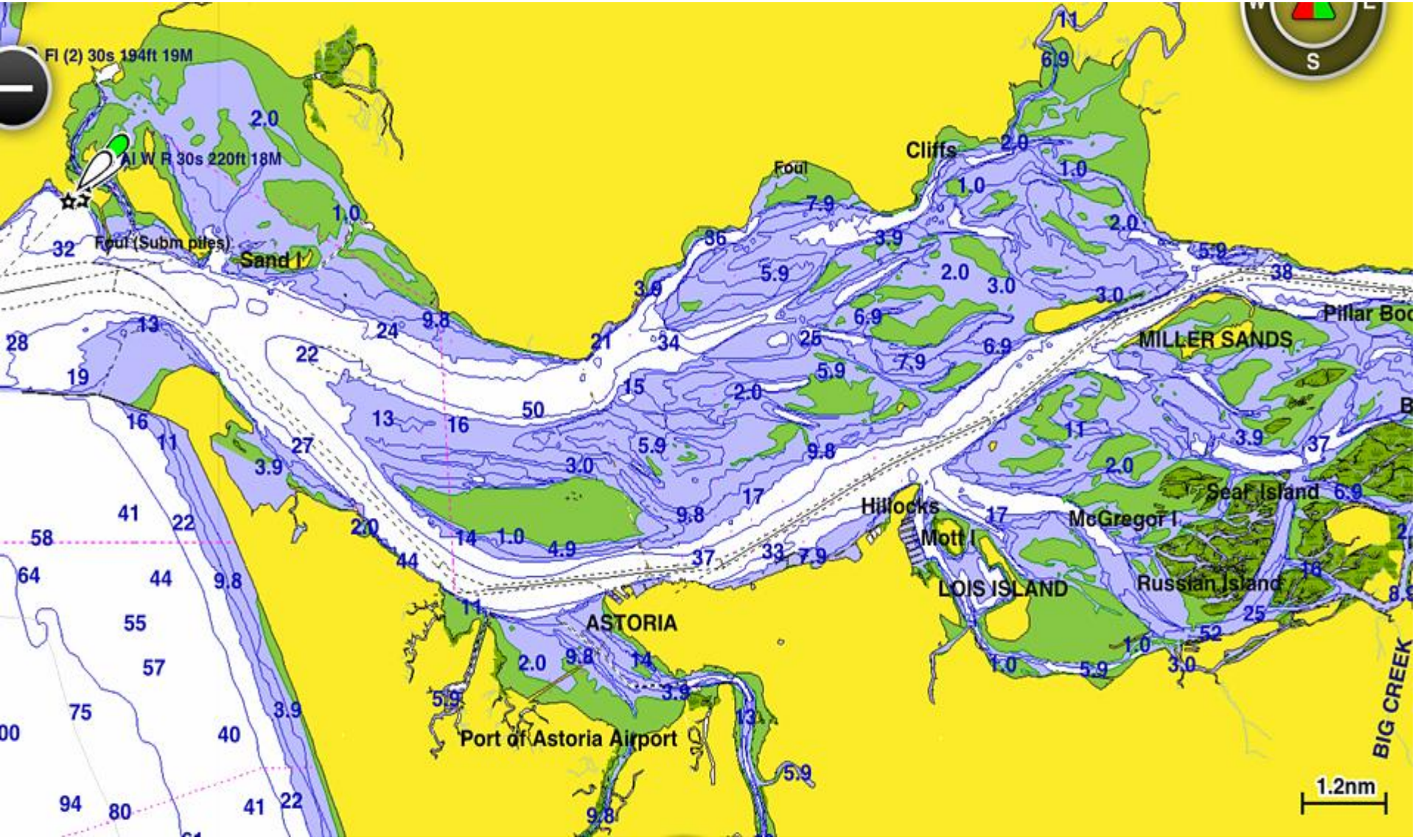
Illwaco Entrance Chart



Astoria Area, Map

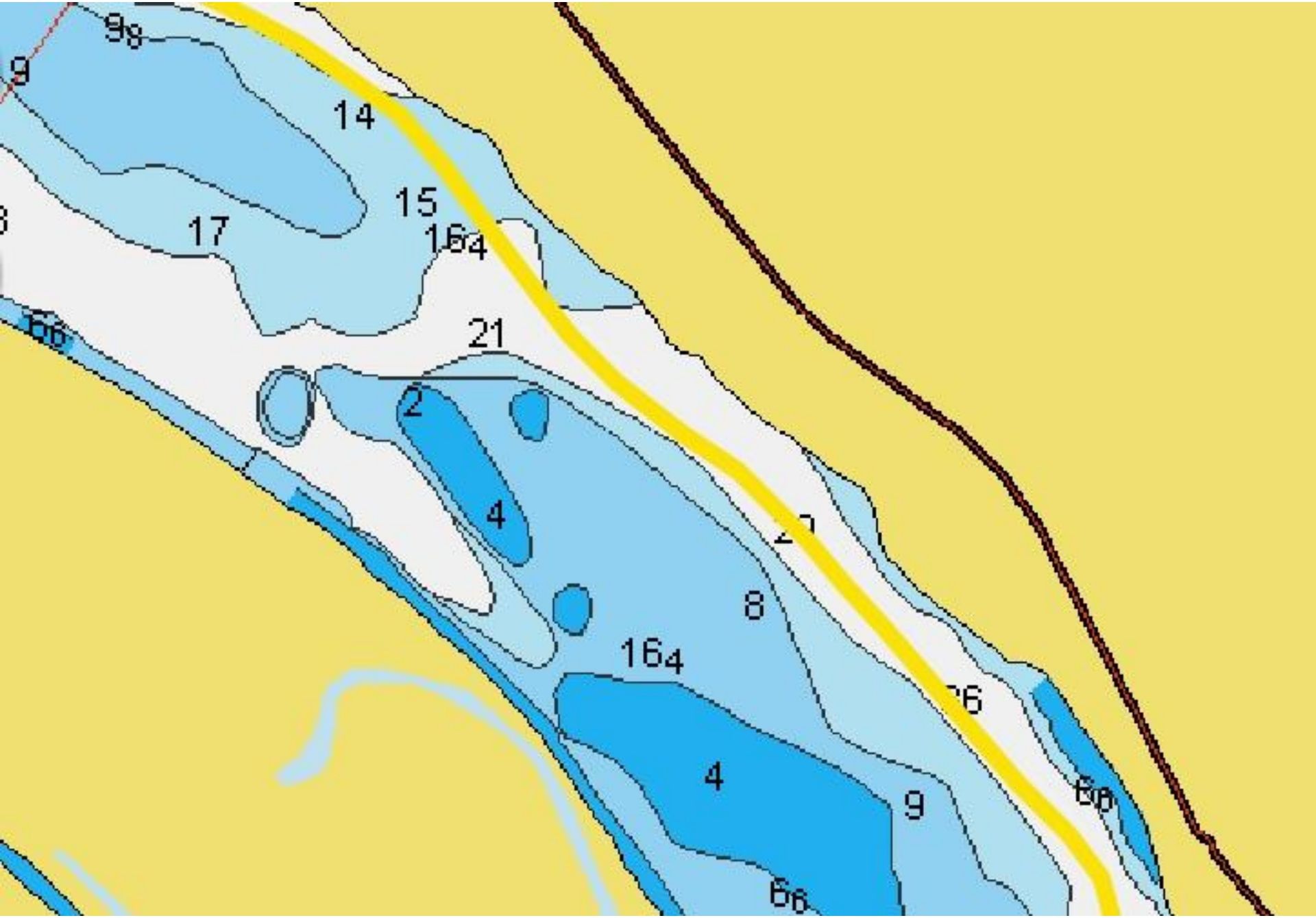


Astoria Area, Chart




Cathlamet
Channel


Cathlamet Channel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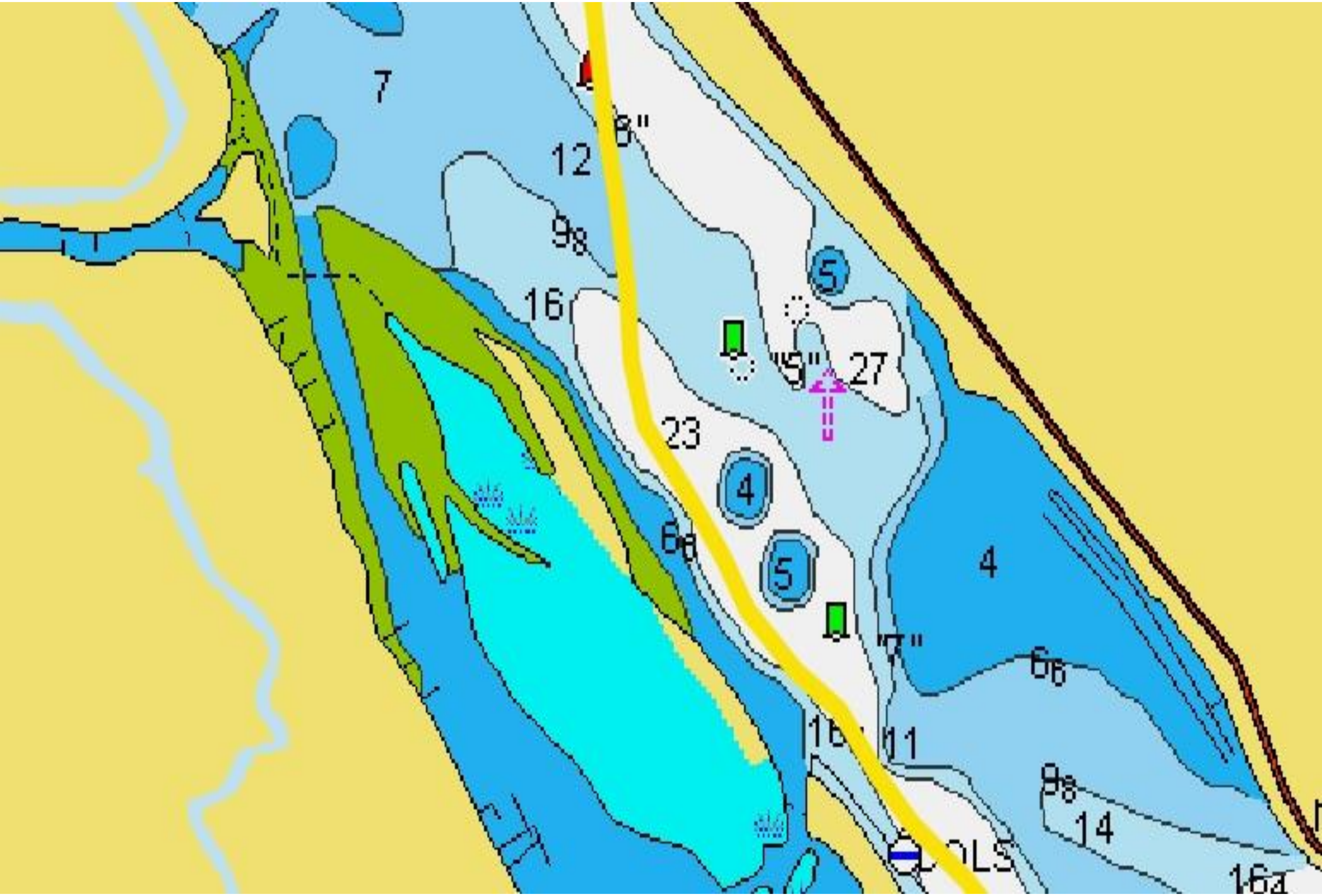
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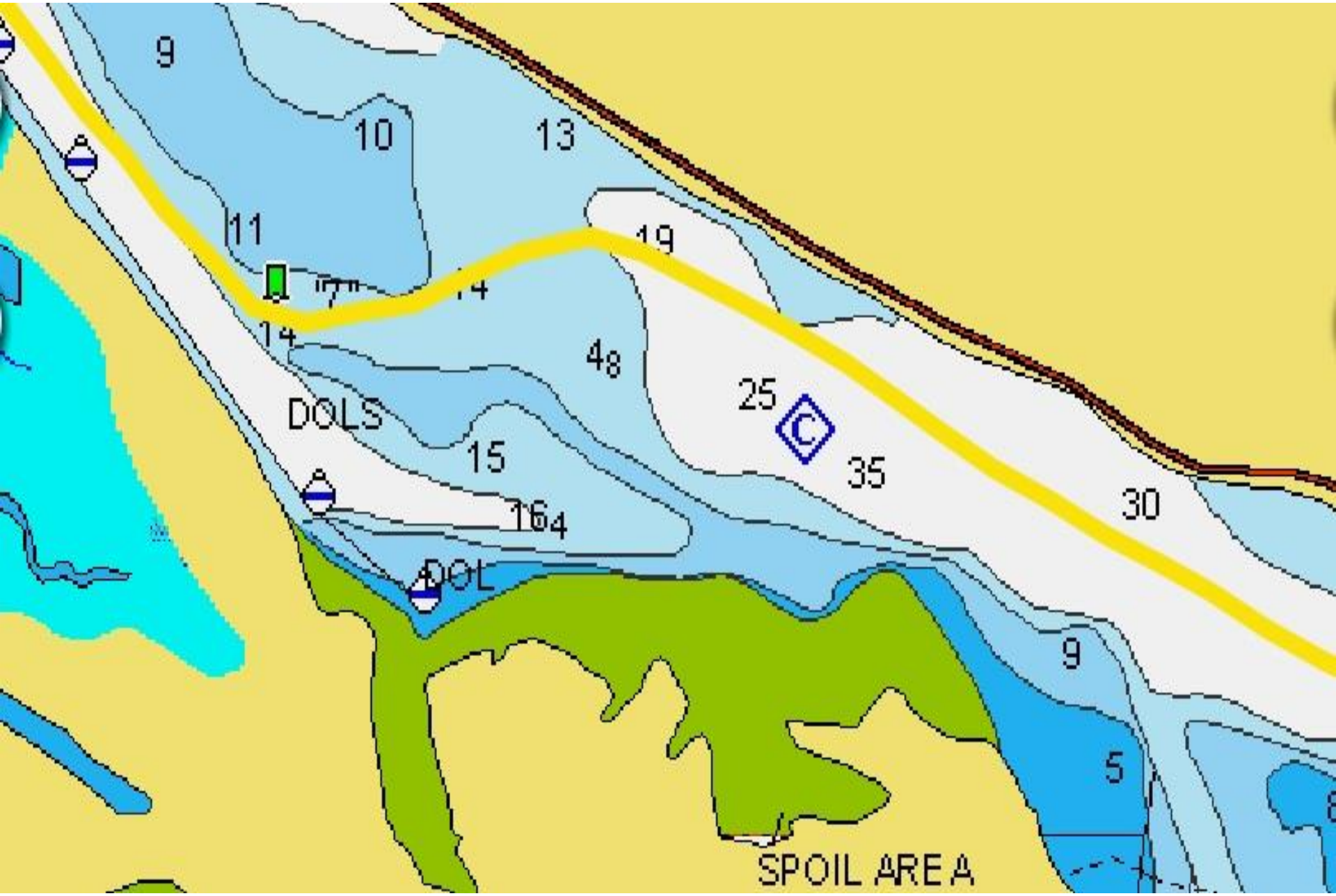
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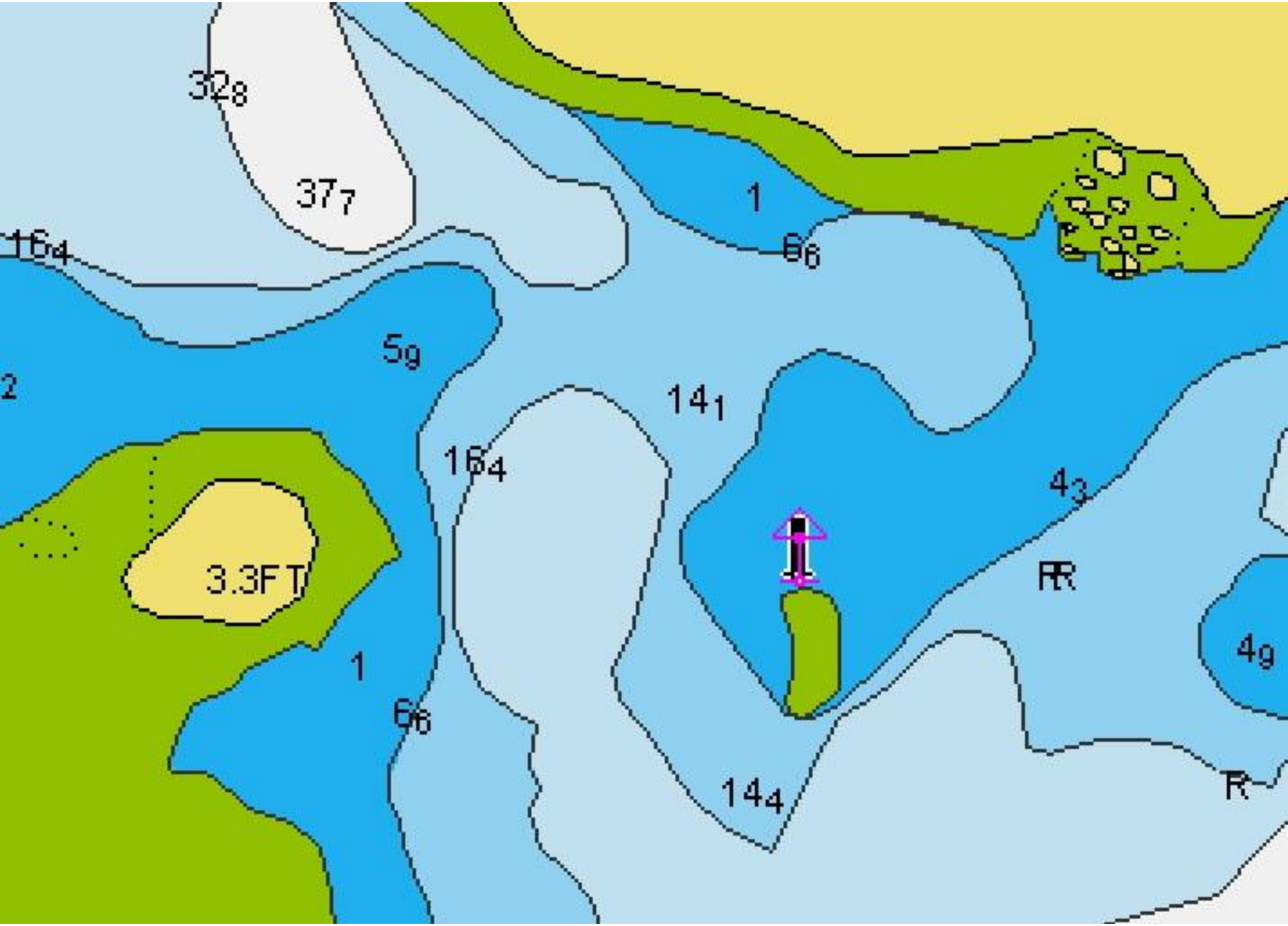
SPOIL AREA


Robbers Passage
Barkley Sound, BC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What Navigation Tools we Use

Traditional:

- Charts
- Route Planning
- Tide Tables
- Plot Fixes, DR Positions
- Steer Compass Heading
- Convert True/Magnetic
- Maintain Logbook
- VHF Weather Forecasts/Observations

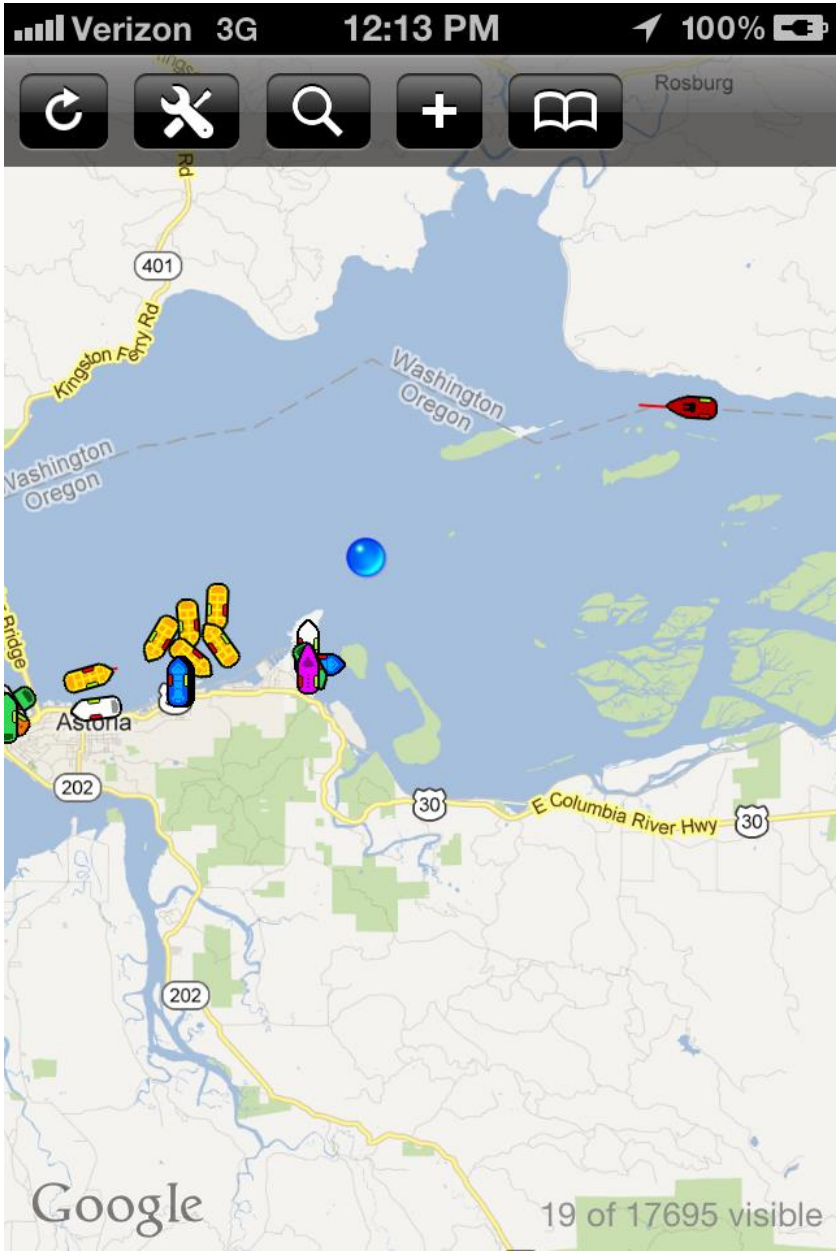
What Navigation Tools we Use, cont.

Electronic:

- Web Weather Forecasts/Observations
- GPS
- Chartplotter
- Radar
- AIS

Smartphone Apps (demo, illustrate?):

- Navionics and Garmin charting apps
- Ship Finder, Marine Traffic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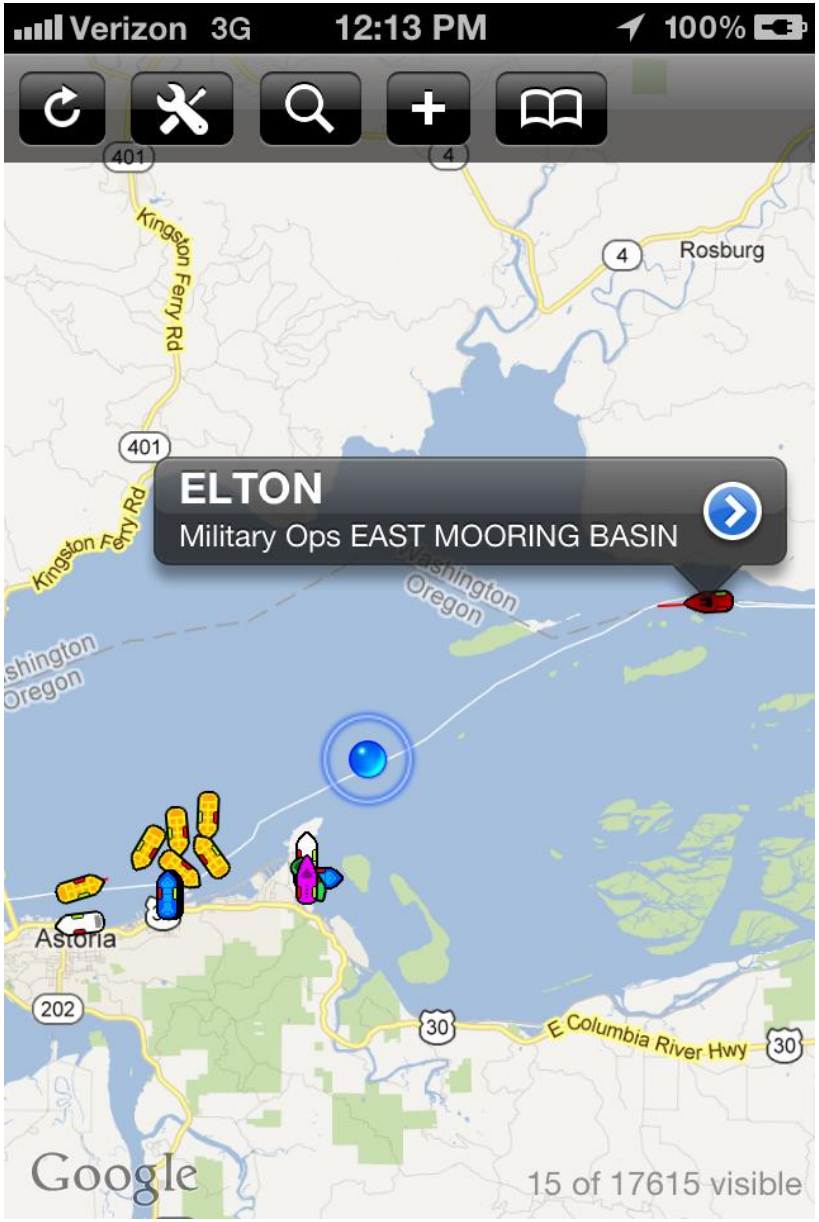
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Sail Balance

(if time allows)

Basic Keelboat, p. 52

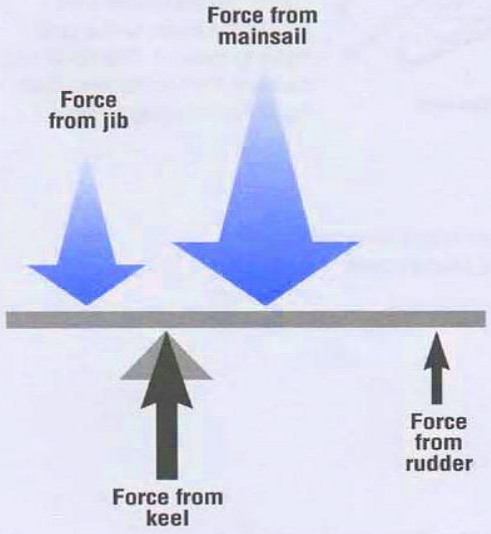
Weather Helm vs. Lee Helm

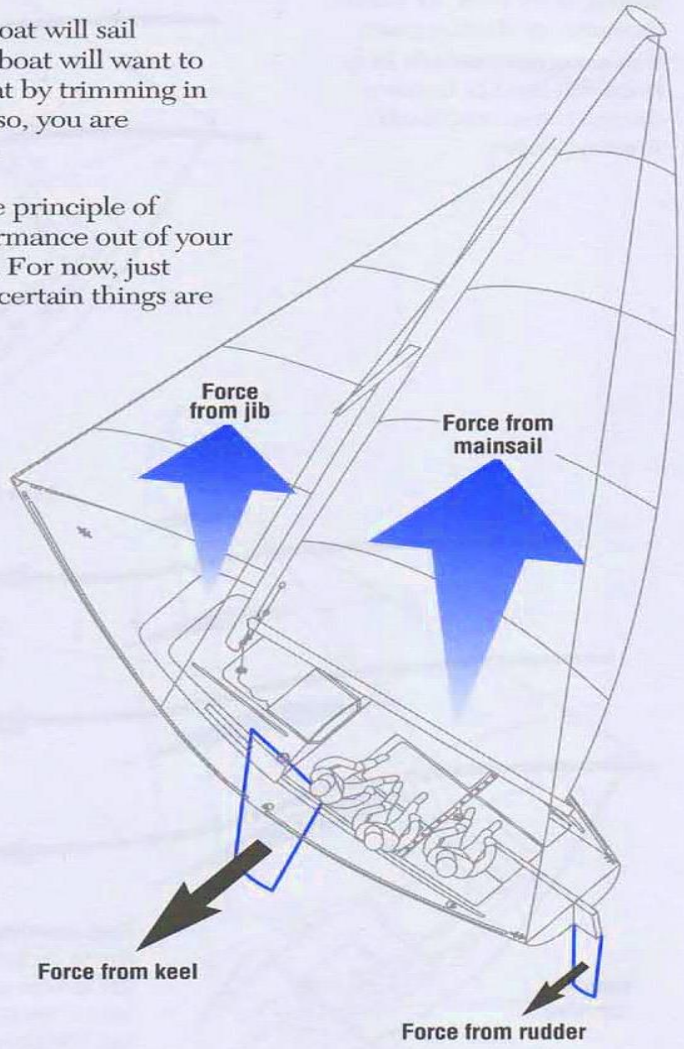
Balance

You can steer a boat with its sails instead of its rudder because of a principle called *balance*. A sailboat is a collection of forces in motion, not all of which are headed in the same direction. There are forces exerted by the mainsail and the jib, both of which pull the boat forward and sideways. There are opposing forces exerted by the water on the keel and rudder.

When all of these forces are *in balance*, the boat will sail forward in a straight line. If they are not, the boat will want to turn. This is why you are able to steer the boat by trimming in or easing either the mainsail or jib. By doing so, you are consciously throwing the boat *out of balance*.

As your sailing skills improve, you will use the principle of balance more and more to get the best performance out of your boat and execute more advanced maneuvers. For now, just understanding balance will help explain why certain things are happening on your boat.



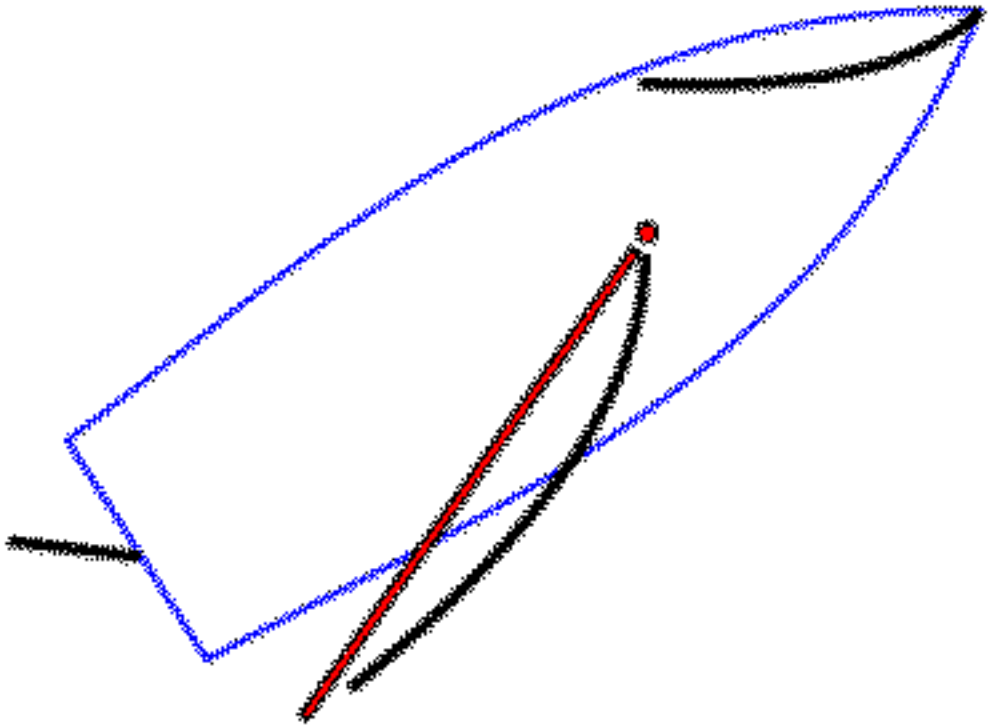


Forces on a sailboat act like weights on a see-saw (above), with the keel supporting the middle. If the force from one sail outweighs the other, the see-saw will tip (the boat will turn).

Heaving To

(if time allows)

Basic Keelboat, p. 45



Study Questions

Prepare answers to second half of study questions, 47-90, for next class meeting.

Videos?

(If time allows; if we want a short diversion)

Knots!

(Basic Keelboat, pp. 58-60)

1) Figure 8 Stopper Knot
2) Cleat Hitch
3) Round Turn and Two Half-Hitches
4) Bowline

For each knot: Discuss uses, practice tying.

Also: Learn to coil a line!