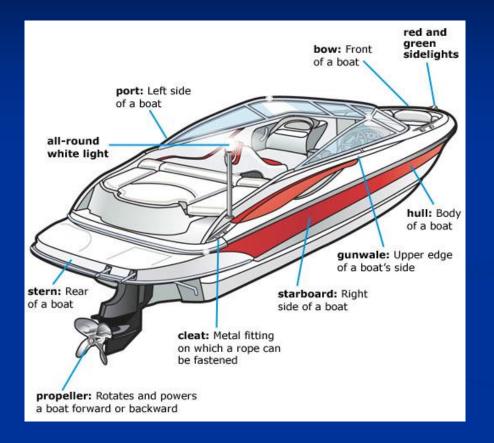
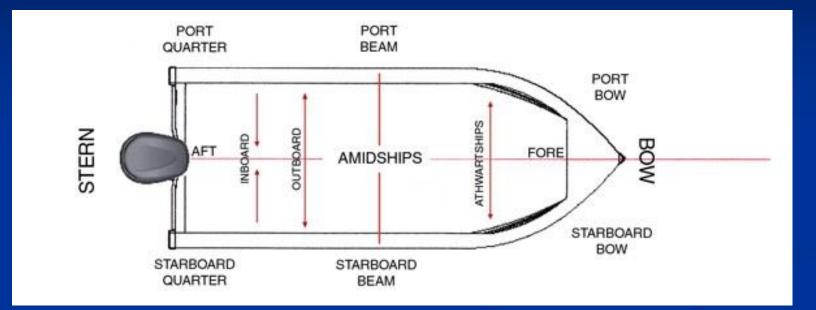
BOAT CREW TRAINING Marlinspike Seamanship (Boat Nomenclature and design)

> BCM-03-01 BCM-03-03 to -06 BCH 16114.4A Ch 3,4,6

Boat Nomenclature



Boat Nomenclature



(Note: Length, Beam, Draft)

Hull Types

Displacement:

- Push water aside
- Plow thru water

Cruisers, most sailboats, ships

Planing:

- Skim along surface
- Flat or v-bottom

Small power-driven, some sailboats



Bar Keel- extends below the hull Flat plate keel- within boat's hull

Other Factors

Watertight integrity: Doors, hatches, hull fittings (caution when opening if grounded)

Stability affected by:

Static forces- weight distribution in boat Dynamic forces- wind, waves, speed,

turning

Stability Factors

- Center of gravity: Depends on load. Weight of boat acts vertically downwards.
- -Center of Buoyancy: Upward force of water on hull.
- Equilibrium: Center of Buoyancy acting upwards/vertically is below the Center of Gravity acting downwards.

Types of Stability

Longitudinal (bow to stern) - prevents pitchpoling

Transverse (side to side)- prevents capsizing

Seas and Stability

Deep water waves (wakes)- approach at an angle, 25-45 degrees, slow down.

Breaking waves- increase power to get bow over the crest, slight bow up to approach next wave. Do not "fly thru" the crest

Dealing with Current/ winds

- -Ride the back of the swell for following sea
- -Hand on throttle, adjust speed
- -If can't get to shelter before a storm, head into wind
- 1 knot of current may affect boat as 30 knots of wind