

## Sailing Terms

Taken from American Sailing Association (ASA) Manuals: Sailing Fundamentals and Cruising Fundamentals  
(Page numbers correspond to the chapter and page in the specific manual)

Term	PART ONE	Pg
Keel	A weighted fin that, when attached to the bottom of a sailboat, keeps the boat from slipping sideways in the water and allows it to sail upwind.	1/17
Centerboard	A wooden or metal fin housed in the centerboard trunk that serves the same purpose as a keel. It can be lowered to overcome the boat's lateral motion.	1/17
Hull	The main body of the boat.	1/17
Beam	The maximum width of the hull.	1/17
Deck	The horizontal upper surface of the boat.	1/17
Stern	The back of the boat.	1/17
Bow	The front of the boat.	1/17
Aft, After	Towards the stern.	1/17
Forward	Towards the bow.	1/17
Windward	Toward the wind.	1/17
Leeward	Away from the wind.	1/17
Rudder	The fin at the stern of the boat used for steering.	1/17
Tiller	The wooden or metal steering arm attached to the rudder. It is used as a lever to turn the rudder.	1/17
Tiller Extension	A wooden or metal pivoting extension attached to the tiller. It is usually found in dinghies and enables the skipper to steer accurately while hiking out.	1/17
Wheel	On larger boats the wheel replaces the tiller and is used to turn the rudder.	1/17
Mast	The vertical pole or spar that supports the sails and boom. The top of the mast is called the masthead.	1/17
Boom	The horizontal spar which is attached to the mast to support the bottom part of the mainsail.	1/17
Hiking Out	Leaning the weight of the crew over the windward side to help keep the boat on an "even keel."	1/17
Port	The left side of the boat as you face forward.	1/17
Starboard	The right side of the boat as you face forward.	1/17
Mainsheet	The line used to make the major adjustments to the trim of the mainsail.	1/18
Boomvang	An adjustable tackle or rod that prevents the boom from lifting. A rod-type boomvang also keeps the boom from dropping on deck.	1/18
Lifelines	Plastic-coated wires enclosing the deck to keep the crew from falling overboard. Lifelines are suspended from metal supports, called pulpits and stanchions.	1/18
Traveler	A slide, running across the boat, to which the mainsheet is led. The crew can change the trim of the mainsail by adjusting the slide position.	1/18
Topsides	The sides of the hull above the waterline.	1/18
Standing Rigging	A collection of wires that supports the mast. On more sophisticated boats, the standing rigging is more complex and can be adjusted to optimize a sail's performance.	1/18
Headstay (Forestay)	A wire that runs from the top of the mast (or near the masthead) to the bow and onto which the jib is attached. It supports the mast, preventing it from falling backwards.	1/19
Backstay	A wire that runs from the top of the mast to the stern and supports the mast.	1/19
Shrouds	Wires that run from the masthead (or near the masthead) to the sides of the	1/19

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(Sidestays)	boat to support the mast and prevent it from swaying.	
Sails	The power supply of the sailboat. They are most frequently made of Dacron, a synthetic fiber, used because of its resistance to stretching. Other materials such as nylon, Mylar, and Kevlar are also used in sailmaking.	1/19
Mainsail	The primary and most easily controlled source of sail power, attached along the front edge to the mast and along the bottom edge to the boom.	1/21
Spinnaker (Chute)	A balloon like sail, often colored, used when running with the wind.	1/21
Jib (Headsail)	The sail set forward of the mainsail and attached to the forestay using jib hanks.	1/21
Genoa (Headsail)	A large jib with an overlap aft of the mast.	1/21
Head	The top corner of the sail.	1/21
Tack	The forward lower corner of the sail.	1/21
Clew	The back lower corner of the sail.	1/21
Luff	The leading edge (front) of the sail. The luff of the mainsail attaches to the mast, and the luff of the jib attaches to the forestay.	1/21
Foot	The bottom edge of the sail. The foot of the mainsail attaches to the boom. The foot of the jib is unattached and consequently more difficult to control.	1/21
Leech	The trailing (back) edge of the sail.	1/21
Battens	Support sticks held in pockets to keep the leech from flapping and to add support to the sail.	1/21
Draft	The fullness or roundness of the sail.	1/21
Running Rigging	Consists of lines that pull the sails up and adjust the sail's shape. Unlike the standing rigging, the running rigging is not stationary. When sailors speak of "trimming" sails to find the most efficient shape, they mean that the sheets are being let out (eased) or pulled in (trimmed).	1/21
Halyards	Lines used to raise (hoist) sails and hold them up. They attach to the top or head of the sail and run through the top of the mast by means of a sheave or block (pulley) and then down to the bottom of the mast. Halyards can be internal (inside the mast) or external (outside the mast). Halyards sometimes terminate at the base of the mast, requiring the crew to be at the mast when hoisting and lowering the sails. A better system is to have the halyard lead back to the cockpit through <b>turning blocks</b> and <b>padeyes</b> (blocks and eyes through which a line is threaded to give it a clear, safe run). The sail can then be hoisted or lowered by the crew without leaving the cockpit.	1/21
Mainsheet	A line used to trim the mainsail; it is lead through a series of blocks to form a block and tackle.	1/21
Jib Sheets	Two lines, one on each side of the boat, to trim the jib.	1/21
Topping Lift	Part of the running rigging that prevents the boom from dropping on deck.	1/21
Downhull	The line attached to the tack of the sail, used to trim the draft forward.	1/21
Outhaul	The line that attaches to the clew and is used to tension the foot of the sail.	1/21
Cunningham	A block & tackle system used to exert tension on the luff of a sail.	1/21
Winches	Located on the mast or deck to assist in the hoisting of sails. They pull lines mechanically and consist of a drum that rotates only in a clockwise direction	1/21

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	around which the line is wrapped and a crank handle to rotate the drum.	
Sheets	Control the shape of the sail and sail trim or position of the sail.	1/22
Mainsheet	A multiple block and tackle used to increase an individual's pulling power.	1/22
Jib Sheet	Consists of two lines connected to the clew of the jib that lead along each side of the boat to the cockpit. A <b>Windward</b> sheet is lead along the windward side of the boat and is the non-working or "lazy" sheet and will be slack. A <b>Leeward</b> sheet is lead along the leeward side of the boat and is the working sheet. As the side of the boat the wind is blowing from changes, reference to the windward or leeward jib sheets changes.	1/22
Bowline	Knot that attaches the jib sheets to the clew of the jib.	1/22
Block	Pulley	1/22
Cleat	Wooden, plastic or metal fitting used to secure lines	1/22
Figure Eight	A stopper knot.	1/22
Crew Capacity Formula	Length x width ÷ 15.	1/28
PFD	Personal Floatation Device	1/37
Gooseneck	Fitting that attaches the boom to the mast.	1/37
Tack Pin	The pin that holds the tack of the sail to the boom.	1/37
Outhaul	The line that attaches to the clew of the mainsail and is used to tension the foot of the sail.	1/37
Hanked	Attaching the luff of the jib onto the head stay with small brass snap fittings on the jib.	1/39
Point of Sail	A sailboat's directional heading with respect to the wind. <ul style="list-style-type: none"> <li>• Head to wind (In Irons) – main &amp; jib in tight</li> <li>• Close hauled (point of sail closest to wind) – main &amp; jib sheeted in close and the boat is steered as close to the wind as possible without the sails luffing.</li> <li>• Close reaching (Boat sails across the wind at an angle. Wind is forward of abeam) – main &amp; jib trimmed out slightly on leeward side</li> <li>• Beam reaching (boat sails across the wind at 90° angle; wind is directly abeam) – main &amp; jib trimmed out a little more on leeward side</li> <li>• Broad reaching (boat sails across the wind at an angle; wind is comes from aft of abeam) – main &amp; jib trimmed out almost 90° on leeward side</li> <li>• Running (wind comes from directly behind) – Main eased all the way out on windward side &amp; jib eased out on leeward side (winged)</li> </ul>	1/45
Beating Course	Wind is from ahead.	1/45
Reaching Course	Wind is from the side.	1/45
Running Course	Wind is from astern.	1/45
Sail Trim	Set of the sail in relation to the boat and the wind.	1/45
Trim	Adjust the sail's position by pulling in or letting out the sheet.	1/45
Coming About (Tacking)	Changing course by turning the boat into and through the wind until the sails move from one side of the boat to the other.	1/49
Starboard Tack	The wind comes over the starboard or right-hand side of the boat. The boom is	1/49

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	always on the port side of the boat.	
Port Tack	Wind comes over the port or left-hand side of the boat and the boom is to starboard.	1/49
Jibing	Turning the boat away from the wind until the wind crosses the stern of the boat and the sail moves to the opposite side of the boat.	1/49
Bearing Away / Bearing Off	Boat turns away from the wind.	1/49
Telltails	Pieces of yarn attached to the sails & rigging to help in reading the wind. If pointing too close to the wind, the sail is under trimmed & the windward telltail will flutter up & down. Adjust course away from the wind or trim sails. If pointing too low or the sail is overtrimmed (trimmed too tightly), the leeward telltales will flutter up and down. Head closer to the wind or ease sails.	2/67
Masthead Fly	Wind pennant placed at the top of the mast.	2/68
Apparent Wind	The wind you feel while sailing. The apparent wind is forward of true wind.	2/69
True Wind	Actual direction the wind is blowing over the water.	2/69
Lateral Resistance	Resistance to side slipping due to the keel or centerboard	2/70
Center of Lateral Resistance	Point on the centerboard, keel or hull under the water that acts like a pivot for the whole area of lateral resistance.	2/70
Center of Effort	Acts as a pivot on the sails. When both are in the same vertical plane, the boat is in balance and easier to steer.	2/70
Heel	Tipping of boat. Heeling lengthens the boats waterline that allows the boat to go faster by creating a longer wave length.	2/70
Leeway	When a boat heels over too far, it will begin to slide sideways.	2/70
Weather (Windward) Helm	Created by heeling and the wind on the sails. It is the tendency of the boat to round up into the wind when you let go of the tiller. To reduce, (a) hike out until the boat is flat; (b) head the boat slightly into the wind to reduce heel; (c) easing the sails; (d) flattening the sails.	2/71
Lee (Leeward) Helm	When you let go of the tiller and the boats steers away from the wind you have lee helm.	2/71
Heading Up	Steering toward the wind	2/72
Bearing Away	Steering away from the wind	2/72
Beating to the Windward	Sailing close hauled.	2/72
Balanced	A boat will sail in a straight line with little action on the tiller. Most boats perform best when there is some weather helm.	2/73
Surfing	When sailing downwind, the boat is pushed by the waves as they pass under the hull.	2/74
Head to Wind	Point of sail: Boat pointed directly into wind and sails luffing.	2/76
By the Lee	Point of sail: On a run, when the wind blows on the same side of the boat on which the mainsail is set. Could cause an accidental jibe.	2/76
Rules of the Road /	Inland Rules of the Road International Rules of the Road	2/77



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jibe”		
“Jibe ho”	Helmsman command – tiller is pulled windward and the boat starts to turn away from the wind	2/86
Sailing on a Reach	Helmsman maintains a straight course; the crew trims the sails by easing them out until they luff and pulling the sheets in until the luffing stops.	2/86
Stopping the boat	With the boat on a close reach, ease the sails out as far as possible until one stops. (sails will luff).	2/87
Safety harness	Purpose is to keep a person on board by attaching the person to a strong part of the boat	3/91
Mild hypothermia	Feeling cold, violent shivering, slurred speech	3/93
Medium hypothermia	Loss of muscular control, drowsiness, incoherence, stupor and exhaustion	3/93
Severe hypothermia	Collapse and unconsciousness, respiratory distress and/or cardiac arrest probably leading to death	3/93
HELP	Heat Escape Lessening Position (fetal position that conserves body heat in the water)	3/94
Hypothermia Do’s	Remove wet clothing; wrap in blanket or sleeping bag with external heat source; call for medical attention	3/93
Hypothermia Don’ts	Do not administer fluids unless person is totally coherent; do not massage arms or legs; do not administer alcohol, coffee or tea	3/94
Foretriangle	Space between the mast and forestay	3/101
Small craft advisory	One red pennant displayed at day; one red light above a white light at night	4/111
Gales warning	Two red pennants displayed at day, one white light over a red light at night	4/111
Storm warning	A single red flag with black center displayed at day; two red lights at night	4/111
Hurricane warning	Two square red flags with black centers at day; white light between two red lights at night	4/111
Soundings	Water depths on charts, measured in fathoms (6 feet = 1 fathom), feet or meters. Charts changing to metric system now	4/113
Nautical mile	1 nautical mile = 1.15 statute miles	4/113
Latitude	Degrees north & south from the equator. One degree = 60 nautical miles. 1/60 of 1° latitude (minute) = 1 nautical mile.	4/113
Longitude	Degrees east & west, the measure of the earth’s circumference around the equator	4/113
Latitude scale	Found on the side of nautical charts, divided into tenths	4/113
ATONs	Aids to navigation, such as buoys and beacons that identify the locations of channels where safe passage is assured, warn boaters of dangers and obstructions, and help boaters determine their position	4/113
Red Buoy	Red, right, returning	4/114
CANS	Unlighted green buoy that resembles vertical cylinders	4/114
NUNS	Unlighted red buoy that look like cylinders with a conical top	4/114
Lateral mark	Buoys or beacons that indicate the port or starboard sides of a route to be followed.	4/117
Nonlateral mark	Information and regulatory marks: Open-faced diamond = danger; circle =	4/118

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	restrictions; diamond containing a cross = boats are excluded	
Junction Buoy	Indicated where a river or channel splits into two routes	4/114
Ground tackle	Combination of anchor, chain and rode (rope).	4/119
Danforth anchor	All purpose anchor, and it will hold in any bottom soft enough to allow the flukes to dig in. Suited for hard mud, sand or soft clay. It's the choice for the weekend sailor and cruiser.	4/119
Plough anchor	Heavy-duty cruising anchor that digs into harder surfaces that the Danforth can penetrate, also grabs into rocks. It must be heavier than a Danforth to provide the same holding power for the same size boat.	4/119
Rode	The rope line in the ground tackle. When anchoring, let out 4-7 times the amount of rode as depth of water.	4/119
Chain	Connects the anchor to the rode. It will absorb shock from a pitching boat in heavy seas, allowing the anchor to stay dug into the bottom. It also keeps the rode from chafing on the bottom when it passes over jagged coral or rocks.	4/120
Safe Anchorage	Must have (a) shelter; (b) room to swing on the anchor; (c) sufficient depth of water; (d) good holding ground (bottom).	4/121
Shelter	Best is in the lee (between the boat & the wind) of an island or shore.	4/121
Bow lines	Secure bow to dock.	4/124
Stern lines	Secure stern to dock	
Spring lines	Used to control fore and aft motion of boat at dock and as an aid in maneuvering a boat for docking or undocking.	4/124
Nylon	Anchoring and mooring lines.	4/124
Dacron	Sheets, halyards and other running rigging.	4/124
Polyethylene, polypropylene	Ski tow ropes and dinghy painters.	4/124
Cotton	Flag halyards and lanyards.	4/124
Self-bailing cockpit	Allows the water to run out as it enters, automatically.	5/137
Through-hull fitting	Below water line where water drains out	5/137
Sole	Floor of cockpit	5/137
Transom	Flat surface across the stern.	5/137
Pintle	A bolt of metal secured to the rudder and fitting into the gudgeon. It gives swinging support to the rudder.	5/137
Gudgeon	A fitting attached to the hull into which the rudder's pintle's are inserted.	5/137
Rudderpost	A post where a rudder is suspended through a hull.	5/137
Tangs	Strong metal fitting that attach the shrouds, forestay and backstay to the mast	5/139
Turnbuckle	Attaches the shroud and backstay to toggle and allows them to be adjusted to proper tension.	5/139
Chainplate	Stainless steel straps that attach the turnbuckle to the hull	5/139
Stem fitting	Forestay is attached via the stem fitting	5/139
Masthead light	Fixed white light over the fore-and-aft centerline of the vessel attached to the mast. Visible from ahead to an angle 22.5° abaft the beam on both sides. Also called a bow or steaming light and indicates a boat moving under engine power. Mounted higher than sidelights.	5/140

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Sidelights	Red & green lights visible on the port and starboard sides from directly ahead to an angle of 22.5° abaft of beam. For a boat under power, they must be lower than the masthead light. Vessels < 65.5' may have sidelights mounted in one lantern on the centerline and sidelights & stern lights in one lantern at the top of the mast when under sail.	5/140
Stern light	A white light placed as near the stern as possible and visible astern from an angle of 22.5° abaft of beam on either side.	5/140
At anchor	All vessels must have a 360° white light unless anchored in a recognized small craft anchorage.	5/140
Red light	Sidelight on port side – port wine is red	5/141
Green light	Sidelight on starboard side	5/141
White light	Stern light	5/141
Under power	Sidelights, masthead light and sternlight must be shown.	5/141
2 powerboats approaching each other	Should pass port side to port side (give way to the right).	5/143
2 powerboats crossing	Vessel that has other vessel to its starboard side must keep clear. Slow down & wait or change course and pass astern.	5.143
One boat overtaking another	The overtaking vessel shall keep out of the way of the vessel being over taken.	5/143
One short blast (Inland)	You intend to pass port-to-port.	5/143
Two short blasts (Inland)	You intend to pass starboard-to starboard.	5/143
Three short blasts (Inland)	You are operating in reverse.	5/143
Response-agree	Same signal as above	5/143
Response-disagree	5 or more short blasts – indicated dangerous situation exists.	5/143
2 prolonged blasts + 1 short blast (Int'l) (---)	Overtaking vessel in a narrow channel or fairway, passing on your port side.	5/143
2 prolonged blasts + 2 short blasts (Int'l) (---)	Overtaking vessel in a narrow channel or fairway, passing on your starboard side.	5/143

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1 prolonged blast (-) Inland/Int'l	Nearing a bend or an area of a channel or fairway where other boats may be obscured or ( <b>Inland</b> ) a powerboat leaving a dock.	5/143
1 prolonged blast followed by 2 short blasts at intervals of not more than 2 minutes	A sailboat without engine running when operating in or near an area of restricted visibility.	5/144
PFID	Personal flotation Device. Must be carried for each person on board. If boat is $\geq 16'$ , a Type IV must be on board.	5/144
Type I (off-shore life jacket)	Must turn unconscious people from face down positions to vertical or nearly face up positions (22 lbs of buoyancy). Recommended for offshore cruising where a delayed rescue is probable.	5/144
Type II (near-shore buoyant vest)	Will turn some unconscious people from face down to vertical or nearly face-up positions (15.5 lbs buoyancy). Recommended for inshore or inland cruising on calm water – prompt rescue likely.	5/144
Type III (floatation aids)	May not turn unconscious persons face-up. Recommended for water skiing, sailing in small boats, hunting or fishing.	5/144
Type IV (throwable device)	Ring life buoys, buoyant cushions, horseshoe buoys. Use in emergency only.	5/144
Type V (special-use devices, hybrids)	Boardsailing vests, deck suits, work vests or inflatable hybrid life jackets.	5/145
Class A Fire	Ordinary combustible material (paper or wood).	5/145
Class B Fire	Gasoline, oil, grease and other flammable liquids.	5/145
Class C Fire	Electrical	5/145
Water only	Class A fires	5/145
Carbon dioxide	All 3 classes of fires	5/145
B-I Extinguisher	4 lbs carbon dioxide, 2 lbs dry chemical	5/145
B-II Extinguisher	15 lbs carbon dioxide, 10 lbs dry chemical	5/145
Boat < 26'	One B-I	5/145
Boat 26' - < 40'	Two B-I or one B-II	5/145
Boat 40' – 60'	Three B-I or one B-II + one B-I	5/145
Vessel over 39.4' but less than 65.5'	Must carry a horn, whistle or bell audible for one mile.	5/147
Vessels less than 39.4'	Do not need to carry a horn, whistle or bell, but must have means to make efficient signal when necessary.	5/147
Vessels in coastal waters	Must carry visual distress signals (flares)	5/147

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Safety equipment required	Two anchors with no less than 200' rode on each, bailer or manual bilge pump, flashlight and extra batteries, first aid kit, tool kit, navigation charts and equipment. Other may be soft wood plugs, VHF radio.	5/147
Personal safety equipment	Safety harness	5/149
Man overboard rescue equipment	Life buoys, buoyant heaving line, inflatable life raft, rigid dinghy, inflatable dinghy, distress flares, daylight distress (smoke) signals, Water resistant light, fog horn, name and sail number	5/149
Mainsail and mizzens (2 <sup>nd</sup> sail on yawl or ketch)	Main sail power	6/163
Foresails	Jibs or genoas set from headstay. Genoas overlap mast when close-hauled sailing	6/163
Staysails	A small rectangular sail used forward of the mast on a reaching course.	6/163
Spinnakers	A balloon-like sail used on a downward course.	6/163
Low pressure system	Bad weather comes from	6/168
Cirrus clouds	High wispy, hazy thin layers identifying an approaching warm front. Rain to follow in less than 24 hours.	6/168 & 6/171
Cirrostratus	With a solar halo; more defined cloud layer. Rain getting closer	6/168 & 6/171
Altostratus	White & gray, full & fluffy formed in round masses	6/168 & 6/171
Nimbostratus	Long, ragged clouds, thick and darker bringing rain	6/168 & 6/171
Cumulonimbus	Thick and darker with anvil-shaped top, bringing rain and thunderstorms.	6/168 & 6/171
Cumulus	Small fluffy clouds. Fair weather sign.	6/168
Cold front	Tends to produce more severe weather than a warm front.	6/168
Thunderstorms	Usually occurs along a cold front.	6/168
Line squall	Low rolling cloud is a sign of approaching line squall – short lived	6/168
Rapid changes in barometric pressure	Usually indicates strong winds.	6/169
Rise or fall of 8 mb within 3 hours	Followed by gale in 4 to 8 hours	6/170
Lower clouds	Indicate bad weather	6/170
Wind direction	Wind backs (counterclockwise) with approach of bad weather; veers (clockwise) with coming of an improvement.	6/170

