

ANCHORING TECHNIQUES

1. Anchoring Equipment

- 1. Type of Anchor: Pivoting Fluke (Danforth, Fortress), Rollbar (Rocna), Plow (CQR, Delta), Claw (Ray, Bruce).
- 2. Size of Anchor: Holding power: determined by weight, design and surface area of blades and flukes.
- 3. Anchor Rode: Chain: hot-dipped galvanized Proof coil, BBB, high test & alloy chain. All chain 120'-250.' Line: 3 strand or multiplait. Combination: Chain 50' and Rode 120'-350'
- 4. **Connectors:** Shackle anchor to chain. Secure shackle pin with seizing wire.
- 5. Anchor Windlass: horizontal or vertical. Stainless is far better than aluminum. Requires annual maintenance.
- 6. **Bow Roller(s):** Two are better than one, & **Bow Cleats:** strong enough for cleating off an anchor snubber.
- 7. Anchor Snubber: 30' of line to transfer load from chain to bow cleat, bypassing the anchor windlass.
- 8. **Chafe Protection:** for nylon rode or snubber: fire hose or flexible reinforced vinyl water hose.
- 9. Anchor Marker: brightly colored float and light line.
- 10. Anchor Rode Bag: storage bag for anchor line.
- 11. **Tender:** may be required to set and/or retrieve second anchor.

2. Selecting and Anchorage

- 1. Consult chart and cruising guides for depth and seabed characteristics for obstructions and information.
- 2. Check weather forecast.
- 3. Choose a spot with good depth, flat bottom, minimum swell and wind, and sufficient swinging room.
- 4. Make a circuit of the anchorage checking how other boats are anchored and their swinging radius.
- 5. Avoid anchoring in rock, kelp, coral and eelgrass if possible.
- 6. Anchor near similar boats to yours and observe the unwritten code of conduct. Vessels already at anchor have priority.

3. How to Anchor

- 1. Slowly approach your anchoring spot steering into the wind while noting depth.
- 2. Bring the boat to a stop and **drop the anchor** to the sea floor.
- 3. Back up slowly while paying out the desired scope (generally 4 to 1 with all chain), keeping the bow into the wind.
- 4. Let boat settle into the wind, **set anchor snubber** or bridle, then slowly apply power in reverse at about 2/3 throttle for two minutes. Anchor should set and rode stretch out.
- 5. **Check you're not dragging** by aligning two objects, one behind the other, and feeling for vibration on the anchor rode. If anchor is dragging there will be vibration.
- 6. Place engine in neutral, rig chafe gear, turn off engine.

4. After Anchoring

- 1. Navigator notes time, depth and GPS position in log book, then plots anchorage positon on chart.
- 2. Plan and study escape route. Set waypoints for a safe night time exit. Set the radar's VRM's in shore to help determine if you are dragging.
- 3. If possible dive the anchor with a mask to visually check the set.
- 4. Establish anchor watch standing procedures in case conditions warrant it.
- 5. At dusk note all surrounding vessels, navigation lights and prominent features such as trees, structures, headlands and lights. 6. Rig night **anchor lights**. Two are better than one.

5. Six Anchoring Techniques: see other side

6. What to Do if You're Dragging

- 1. If anchor starts to drag, it is likely the bow will blow off and the vessel will assume a beam-to-wind and swell orientation. If this happens, IMMEDIATELY start the engine, turn on the nav lights and call for "ALL HANDS ON DECK!!!"
- 2. Increase scope. If this doesn't stop the dragging retrieve and reset the anchor.

7. Anchor Retrieval

- 1. Motor slowly towards the anchor and stow the snubber line.
- 2. Keep the boat positioned over the anchor rode as you winch in the rode. Don't place undue stress on the windlass.
- 3. Once the rode is hanging vertically over the bow the **anchor should disengage** from the seafloor. Let helm know "anchor is free"
- 4. Bring the anchor up entirely to the bow roller and pin or secure it.

8. What Matters: Keeping it Simple

- 1. Items we've never used: swivel connecting anchor & chain, riding sail, tandem anchors or kellet.
- 2. Key points: arrive in good daylight, select anchoring spot carefully, let our substantial amount of scope, and be prepared to move to a safer anchorage if wind increases or changes direction or if an arriving vessel anchors close directly upwind of you.

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SIX ANCHORING TECHNIQUES











6. Beam Anchor



Useful when moored to a rough wharf surface or if wind or current is pressing your vessel against the wharf.

Drop main anchor several boat lengths off the wharf at a 45 degree angle, reversing alongside or once moored set a beam anchor to the midship cleat using the dinghy.

Loosen dock lines and tension anchor rode to keep your boat off the wharf.

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