



Weighing the Anchor – Or is it Waying?

by VINCENT T. PICA, II

Flotilla Commander, 18-06 (1SR) - United States Coast Guard Auxiliary



Sometimes, the simplest thing can take on monumental proportions – if you get it wrong. And setting a proper anchor, and retrieving (or “weighing it” so you can “make way”), can make all the difference in the world when the wind starts to stiffen and all the other fishermen around you start to look askance at you... as you drag your anchor towards them...

Setting the Anchor

The art and science of anchoring are closely akin. It is all about leverage and “scope”. Scope is the ratio of the depth of the water (plus your freeboard, i.e., the distance from the water to your anchor’s cleat) to the amount of line, i.e., “anchor rode”, you’ve laid out. If you are in 7 feet of water and there is 3 feet from the water to the cleat, this is a distance of 10 feet. Lay out 70 feet of “ground tackle” – anchor, anchor chain, and line (rode) – and you have a scope of 7:1 (70/10). This happens to be the US Coast Guard’s recommended scope for proper anchoring under “normal” conditions. In light air, you can reduce to 5:1. In heavy seas, you should lay out 10:1 or even more.

The leverage aspect has to do with how the “flukes” create the holding power. The flukes are those long blades that actually stick into the sand (I am describing the Danforth-style anchor, which is ideal for our sandy and muddy bottoms on the South Shore). Imagine your hand is the anchor for a second. Make a “claw” with your hand and your down-turned fingers are the flukes. They would bite in deeper and more firmly if your arm (what would be the “shank” if it were part of the ground tackle) was laying flat along the surface (try it down at the beach with some sand.) If you start to lift your arm, you can see how your claw/fingers/flukes start to pry themselves out of the imaginary sand/mud/ground. This is why a longer scope is better than a shorter one. It “de-levers” the flukes and keeps them pointing deeply into the holding surface. And the reason that chain (typically 6’ but it can obviously be more) is encouraged as the connecting medium between the anchor itself and the line is to add more weight to the shank – keeping the flukes digging in deeply.

What Goes On Around You Matters

One of the toughest parts of anchoring is judging how much scope to put out when you are anchoring around other boats. All boats will swing down-

wind on their anchors. If you anchor 50’ behind another boat, and you put out 70’ of rode, pray that the wind doesn’t clock around to the opposite heading. If so, prepare to be boarded by an angry crew!

Also, don’t anchor from the stern alone. If you anchor from the stern alone, you are likely to sink “on the hook.” Why? Well, your bow is now downwind and your stern, i.e., the flat transom, is into the wind. Water splashes against the transom and some splashes into the boat. The boat sits a little lower. The same size wave now splashes more water into the boat. The boat sits a little lower. You can see where this is headed. Down.

Weighing Anchor

If 7:1 scope is recommended for good holding power, and 10:1 scope is even better than that, what would be best for providing the least holding power? If you said 1:1, you get an “A” in anchoring. Here’s how you do it...

Hopefully, you have a crew man who can go to the bow and take up the slack, flaking it on the deck as it comes in, while you slowly power up over the anchor. When the anchor line is lying straight up and down, your crew yells “stop” and then tries to “weigh” or retrieve the anchor. But maybe it is stuck! Well, re-cleat the anchor rode so that it is pointing straight down to the anchor (this is called “snubbing” the anchor.) If the line is going straight down to the bottom from your cleat, the scope must be 1:1! Now, back away – don’t power forward! If the anchor suddenly breaks free, it could impale itself in your hull as it sweeps upwards under the force the boat surging ahead. Add power gradually astern and you will very likely break free. If you still haven’t, while power is still being applied in reverse, turn the helm hard over. This will cause the boat to rotate around the anchor. You are unscrewing from the bottom, like a cork screw. 99 times out of 100, this will finish the job. If the anchor is fouled though on rocks or cables, your last resort is to cut yourself free...

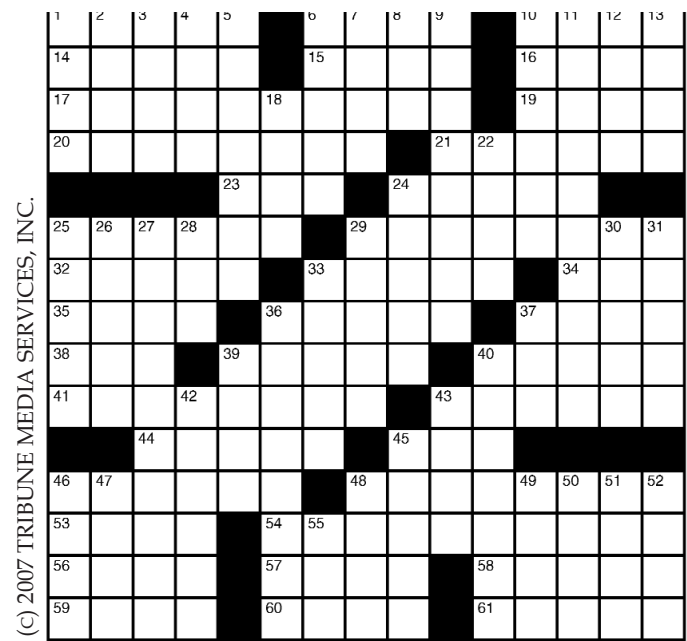
anchors away!

BTW, if you are interested in being part of USCG Forces, email me at USCGAUX2006@aol.com or go direct to MaryJo Cruickshank, who is in charge of new members matters, at FSO-PS@emcg.us and we will help you “get in this thing...”

Tide Table Moriches Inlet April 1 - April 30 40.7650°N, 72.7533° W

Day	High	Low	High	Low	High
Sun 1		12:42 AM / 0.10	6:58 AM / 3.02	1:03 PM / 0.01	7:22 PM / 3.20
Mon 2		1:23 AM / 0.03	7:34 AM / 3.01	1:38 PM / 0.01	7:56 PM / 3.26
Tue 3		2:02 AM / -0.00	8:09 AM / 2.94	2:12 PM / 0.06	8:29 PM / 3.25
Wed 4		2:40 AM / 0.01	8:44 AM / 2.84	2:44 PM / 0.14	9:00 PM / 3.20
Thu 5		3:16 AM / 0.06	9:18 AM / 2.71	3:14 PM / 0.25	9:32 PM / 3.12
Fri 6		3:51 AM / 0.16	9:53 AM / 2.57	3:42 PM / 0.36	10:04 PM / 3.03
Sat 7		4:26 AM / 0.28	10:32 AM / 2.45	4:12 PM / 0.47	10:42 PM / 2.95
Sun 8		5:05 AM / 0.40	11:17 AM / 2.36	4:46 PM / 0.58	11:30 PM / 2.88
Mon 9		5:54 AM / 0.51	12:11 PM / 2.32	5:35 PM / 0.68	
Tue 10	12:27 AM / 2.85	7:02 AM / 0.56	1:10 PM / 2.34	6:54 PM / 0.74	
Wed 11	1:29 AM / 2.86	8:15 AM / 0.49	2:13 PM / 2.45	8:25 PM / 0.65	
Thu 12	2:35 AM / 2.91	9:17 AM / 0.32	3:19 PM / 2.65	9:35 PM / 0.44	
Fri 13	3:42 AM / 3.03	10:11 AM / 0.10	4:22 PM / 2.94	10:35 PM / 0.18	
Sat 14	4:45 AM / 3.18	11:01 AM / -0.11	5:18 PM / 3.28	11:31 PM / -0.08	
Sun 15	5:42 AM / 3.33	11:49 AM / -0.29	6:10 PM / 3.61		
Mon 16		12:25 AM / -0.30	6:35 AM / 3.43	12:38 PM / -0.41	6:58 PM / 3.86
Tue 17		1:19 AM / -0.46	7:25 AM / 3.46	1:26 PM / -0.45	7:45 PM / 3.99
Wed 18		2:11 AM / -0.53	8:15 AM / 3.39	2:14 PM / -0.41	8:33 PM / 3.98
Thu 19		3:01 AM / -0.50	9:07 AM / 3.26	3:02 PM / -0.29	9:23 PM / 3.85
Fri 20		3:52 AM / -0.37	10:02 AM / 3.08	3:50 PM / -0.10	10:18 PM / 3.64
Sat 21		4:43 AM / -0.16	11:01 AM / 2.90	4:41 PM / 0.14	11:16 PM / 3.40
Sun 22		5:39 AM / 0.08	12:01 PM / 2.76	5:37 PM / 0.39	
Mon 23	12:15 AM / 3.17	6:42 AM / 0.28	1:00 PM / 2.67	6:44 PM / 0.59	
Tue 24	1:14 AM / 2.98	7:50 AM / 0.39	1:59 PM / 2.63	7:56 PM / 0.68	
Wed 25	2:12 AM / 2.84	8:51 AM / 0.40	2:58 PM / 2.65	9:02 PM / 0.66	
Thu 26	3:11 AM / 2.76	9:43 AM / 0.36	3:55 PM / 2.75	9:58 PM / 0.57	
Fri 27	4:07 AM / 2.74	10:27 AM / 0.30	4:47 PM / 2.90	10:46 PM / 0.45	
Sat 28	5:00 AM / 2.77	11:08 AM / 0.25	5:32 PM / 3.06	11:31 PM / 0.33	
Sun 29	5:45 AM / 2.81	11:46 AM / 0.21	6:13 PM / 3.22		
Mon 30		12:14 AM / 0.23	6:27 AM / 2.85	12:23 PM / 0.19	

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ACROSS

- 1 Gets a return
- 6 Hr. with a shrink
- 10 Fraud
- 14 Cliff dwelling
- 15 Telephone on stage, e.g.
- 16 ___ into one's own
- 17 Oxymoronic appearance
- 19 Wellness grps.
- 20 Speakers before drinks
- 21 Frat boys
- 23 Du Maurier's "Jamaica ___"
- 24 Besieged site of 1836
- 25 Beauty parlors
- 29 At fault
- 32 Plucked sound
- 33 Surface luster
- 34 Pharmaceutical watchdog grp.
- 35 Auricles
- 36 Lowly workers
- 37 Kettle covers
- 38 Heart-chart letters
- 39 Uplift
- 40 Shoestrings
- 41 Goes back in
- 43 Orator Tully
- 44 Half-pints

- 45 Floor-cleaning implement
- 46 Gung-ho
- 48 Opera text
- 53 Noteworthy times
- 54 Oxymoronic knowledge
- 56 Mound
- 57 Campus military grp.
- 58 ___ we all?
- 59 Clumsy lummoxes
- 60 Altar area
- 61 Because of

DOWN

- 1 Spellbound
- 2 Younger Saarinen
- 3 Precinct
- 4 Low places
- 5 Scene
- 6 Brush off
- 7 Work units
- 8 Fa-la link
- 9 Small telescope
- 10 Conspire
- 11 Oxymoronic workplace
- 12 Berserk
- 13 Disorderly state
- 18 Urges

- 22 Battering devices
- 24 Stag
- 25 Handle the helm
- 26 Not asleep
- 27 Oxymoronic portion
- 28 Start-up buttons
- 29 Discoloring stains
- 30 Cow feature
- 31 Rodeo rope
- 33 First, reverse, etc.
- 36 Abundance
- 37 Varnish ingredient
- 39 European volcano
- 40 Hear visually?
- 42 Hospital workers
- 43 Male swans
- 45 Chop into bits
- 46 Collection biz
- 47 Diva's song
- 48 ___ not and say we did
- 49 Light brown
- 50 Family or shoe follower
- 51 Collapsible shelter
- 52 Eight: It.
- 55 Dad

See Solution on Page 7