



Prevention of Collision at Sea – Lights! Camera! Action!

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You may recall that back on January 9th, we wrote about a brace of Rules that didn't warrant their own column but needed addressing anyway. One of those Rules was Rule 20. Rule 20 says that all the Rules in the "Lights and Shapes" Section of the Rules of Navigation (Rules 21-31) are governed by a few common factors and that you need to see each separate Rule for specific matters as they relate to the vessel or circumstances. This column will start to get these important facts and circumstances out in the open.

Rule 20 – Rules Common to All

Rule 20 is quite simple (see "Prevention of Collision at Sea – Rules, Rules, Rules!," SSP, 1/9/08). It says that Rules 21-31 all shall comply with the following common factors:

1. Use your lights from sunset to sunrise and in times of restricted visibility (implying foul weather, of course)
2. Use no other lights at that time unless you are sure that there is no way that they can be mistaken for the lights spelled out in this Section – or won't impair their visibility or distinctive character (now you know why there are no headlights on a boat – try finding red and green side lights while staring into headlights!)
3. From sunrise to sunset, regardless of visibility, vessels shall exhibit "Shapes" (another column coming!) that conform to the "Lights" that would be used at night/foul weather.

So, what are the specifics beyond that? Let's start this week and finish as time and space permit!

Rule 21 – What Does It Say?

Rule 21 specifies what a masthead light is – a white

light placed fore and aft of the centerline of the vessel. It shows an unbroken line over an arc of the horizon of 225 degrees and so fixed that it can't be seen if you are more than 22.5 degrees abaft the beam of the vessel. Abaft? Seaman-speak for "behind." So, if you see a vessel ahead and you can see a side light (red or green) and a white light above and behind it, it is a crossing situation and you are not more than 22.5 degrees "abaft" her beam. If all you can see is a white light, it is her stern light (keep reading) and you are overtaking her – or it is her anchor light (try not to hit her!).

Just what is 225 degrees? Extend your arms and pretend you are a jet plane. That angle, from your right hand, up your arm, across your chest and down your left arm to your other hand...that for most people is roughly 225 degrees...you get the picture.

Rule 21, having described what a mast light is, goes on to describe "side lights" – those red and green lights. Green goes on the starboard side and red goes on the port side. Which side is port? "There is no RED wine LEFT in the bottle of PORT..." For the numerically advanced, these lights exactly cut the mast light's "arc of horizon" in half. Each light shall show her colors over an unbroken arc of 112.5 degrees ($112.5 * 2 = 225$) and also can't be seen if you are more than 22.5 degrees abaft the beam of the vessel. Take your jet wings and have one arm point straight ahead while holding the other at "take-off" position – 112.5 degrees.

You might ask yourself, "Wait. I don't have two lights on the side of my boat. I have one on the bow, which is half green and half red." Exactly, Bunky. Under 20 meters (66'), you can combine these side lights into one "lantern carried on the fore and aft centerline of the vessel."

Continuing to move aft on the boat, the Rule then defines the "stern light" – a white light placed as nearly as practical at the stern showing an unbroken light over the horizon of 135 degrees and fixed so you can't see it if you have moved forward more than 67.5 degrees from the stern. And just what is 135 degrees? Pretend you are a jet plane again. That angle, from your right hand, across your back and to your other hand...that for most people is roughly 135 degrees...And $225 + 135 = 360$ degrees...you get the picture. And what's with the 67.5 degrees? That is to ensure you can tell when you are behind the target vessel ($67.5 * 2 = 135$ degrees or from the spine of your jet plane to either hand) or crossing her...and lastly for the math geeks and those who love the hidden zen of the sea – 112.5 degrees from the bow and 67.5 degrees from the bow = 180 degrees. The full side of your boat, from stem to stern.

Rule 21 finishes with some more simple definitions and so shall I – a "towing light" is just like your stern light, except she is yellow; an "all-around light" is, you guessed it, a light that exhibits an arc of horizon of 360 degrees (combining the mast light and stern light into one which is common and permitted on smaller vessels) and a "flashing light" is a light that flashes 120 times (or more) per minute. These are thus "defined terms." (There is actually one more defined term in Rule 21 – a "special flashing light" which is just like your mast light, except she is yellow and flashes 50-70 times per minute...) Until next week...

BTW, if you are interested in being part of USCG Forces, email me at USCGAUX2008@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..."

Joan's View

story and photos by Joan Travan

Brookhaven Republicans

The Brookhaven Republican Committee may well be considered the existentialists of the 2008 political season. By sheer will they have won the spoils of the 2007 town election and with increasing numbers they are gearing up for the 2008 Presidential and Congressional elections this coming November.

"We're doing the right thing and moving forward," said Councilwoman Kathy Walsh, speaking about the Republican Majority on the Brookhaven Town Board, at a pancake breakfast given as a thank you for all their hard work.

John Bivona credited much of the committee's success "not only to the committee members," but also to their exuberant chairman Jesse Garcia.

With Rudy Giuliani dropping out of the presidential race, Chairman Garcia said, "I am proud to announce Brookhaven's endorsement of John McCain for president – along with the support of Edward Romaine and Judy Pascale, the Suffolk County coordinators of the Giuliani campaign." Additionally he stated, "Senator McCain is a true patriot and American hero. He is steadfast in his support of Republican-Conservative ideals, while being a

strong voice for reform and change."

The hundred or so committee members at the VFW hall in Centereach early Saturday morning left the event with a feeling of camaraderie and focused with like purpose.

