



## TECHNICAL COMMITTEE

### New York Yacht Club 2010 Cruising Rule

The New York Yacht Club's Cruising Rule (NYYC CR) is a simple rating rule for cruising yachts characterized by vintage design or a substantial bias toward cruising. It is a formula-based rule that uses owner-furnished measurement data. It produces a single-number rating that is used in time-on-distance scoring. If a yacht is considered to be more racing oriented than intended for the Cruising Rule, it may be requested to consider entering another Non-spinnaker Division. The Technical Committee has established screening values of sail-area-to-displacement and displacement-length ratios that assist in determining whether a yacht is eligible for the Cruising Rule. Please refer to the Restrictions & Racing Rules of Sailing (RRS) Modifications and the Owner's Statement on the Cruising Rule application.

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**NEW YORK YACHT CLUB CRUISING RULE:** Rating in  $S/M = 2340/R^{.5} + 183$ ;  $R = RF * ((.98L) + (1.32 * SA^{.5}) - (1.5 * DSP^{.333}) + (DrC))$ ; where  $SA = ((JMF * LPF * I * J)/2 + MMF * MSA * .96/LPF + .4 * MZA) * ((Max\ of\ I\ or\ P)/(J + E + E_2))^{.3}$ ; and  $LPF = 1 + 0.4(LPJ - 1)$  where  $LPJ = LP/J$  expressed as a fraction; and  $L = \text{greater of } (1.05 * LWL) \text{ or } (LOA + 3LWL)/4$ ;  $DrC = (\text{Rated draft} - \text{Base draft}) * (1 \text{ if positive or } 0.5 \text{ if negative or } 0 \text{ for fin with bulb or wing if negative})$ ; and  $RF = \text{Prop Factors} * \text{Keel Factor} * \text{Mast Spreader Factor}$ . Prop Factors are: In Aperture .975; Exposed Shaft .99; Sail Drive .985; Off Center .99; 2 Blade Fold/Feather 1.01; 3 Blade Fold/Feather 1.00; Solid 2 Blade .975; Solid 3 Blade .95; Outboard 1.02; Twin Screw .96. Keel factors are: Fin 1.02; Full .975; Center Board .96; Drop Keel 1.03; Fin with bulb or wing 1.03. Mast/Weight Factors are: Wood .98; Aluminum 1.00; Carbon 1.01; No. of pairs of Spreaders: Zero .98; 1 or more 1.00.  $E_c = .5 * E + .75 * G_M + .5 * G_U$ ; Base draft =  $(0.15 * LWL + 1.5) \text{ FT}$ ; Rated draft = Draft(keel) or Draft(CB); Draft(CB) =  $Up + .5 * (DN - UP)^2 / DN$ ; Sail Material Factors: Mainsail (MMF = 1.00 if Woven; 1.02 if Laminated Cruising; 1.04 if Laminated Racing); Jib (JMF = 1.00 if Woven; 1.03 if Laminated Cruising; 1.06 if Laminated Racing). Other sails MF=1.00 if woven. Honorary Winners Penalties: 2% for first, 1% for second based on overall season performance.

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**RESTRICTIONS & RRS MODIFICATIONS:** Minimum LWL = 25 feet. RRS 52 is modified to allow power operated winches. Crew is limited to the number of berths and must be stationed fully inside the lifelines except as required for sail handling. No spinnakers allowed. No mizzen staysails on yawls. Number of jibs allowed on board: one up to 155% J; one up to 135% J; one up to 110% J. Smaller jibs: no restrictions. No spinnaker pole or outrigger shall be carried to leeward. Only one jib shall be carried in the foretriangle at one time; i.e., drop one sail before setting another. Bonefide double headsail rigs may be carried with staysail attached to inner forestay. A spinnaker pole no longer than J may be used to wing out a jib on the side opposite the main boom as long as no other sail is set in the fore triangle.