high performance rule

Recent improvements to HPR – February 2013

The latest version of the HPR Calculator is V4e, and is posted now online. All previous versions have been deleted from the HPR website so as not to cause confusion with this latest version.

But the following gives an overview of the recent evolution of the rule calculator:

Changes in Rule Calculator V4d (Jan 2013)
Prior to Key West Race Week, the following changes have been made to the Rule Calculator Spreadsheet creating version V4d:
- The penalty bowls for Beam, Freeboard, Draft, VCG, Crew Factor, and Displacement have been replaced with increased slopes, mostly 2X and 4X.
- The slope of the beam performance line has been changed such that effect is to rate beam solely on crew arm with the exception of a very small component for windage.
- The point at which existing boats no longer receive displacement credit has been increased from 20% to 30% of base displacement.
- IG has been increased from a maximum of 0.88 of P+BAS to a maximum of 0.92.
- Delay for one year the requirement to use luff-based mainsail widths for calculating mainsail area.

Changes in Rule Calculator Version V4e (Feb 2013)
- Remove freeboard penalty for low values on existing boats.
- Re-calibrate the displacement slope using a heavier boat.
- Increase propeller credit for existing boats to the calculated amount.
- Adjust the TOT curve to give more credit to smaller boats relative to larger ones.
- Increase the age allowance for all boats with an age or series date of 2011 or earlier by 1% of rated length. This is a bonus increase overlaid on top of the existing 0.2% per year of age allowance.
- Qualify existing production boats for the Economy of Scale credit.
- Provide a penalty for bowsprits whose length exceeds the HPR maximum of $0.4229*L+2.285m$ as follows: 4 times the excess length shall be added to the asymmetrical spinnaker width in calculating the spinnaker area.

Also, while the V4e Calculator is now ready, the HPR Rule book is still under revision to reflect these latest changes.