



## **Gippsland Lakes Yacht Club PERFORMANCE HANDICAPS RULES 2013/2014**

1. Performance based handicaps may be used to allow boats of different designs and ages to compete together on an equitable basis. This handicap system will function properly if the configuration of the boats and the majority of the crew remain unchanged between races.

GLYC handicaps are based on analysis of performance in accordance with an agreed set of rules.

### **GLYC PERFORMANCE HANDICAPPING RULES - by relative performance**

#### **2. Conditions for the Issue and Maintenance of a GLYC Performance Handicap**

- 2.1 The GLYC Handicap is the measure of performance achieved by a boat/crew combination. To qualify for a GLYC Handicap, the boat concerned must have finished in five races with a fair result, and with her hull, rig and crew substantially unchanged.
- 2.2 Any substantial change in hull, rig or crew combination, which is likely to change performance, must be notified to the Club Handicapper at least 24 hours prior to the race.
- 2.3 Interpretation of such substantial changes will include:
  - change of helmsman
  - more than half of crew who have not competed in past 5 races
  - hull or rig changes
  - new or different sails
  - changes to ballast
  - changes to powered systems
- 2.4 Failure to notify of such changes may be considered to be "unfair practice" and may result in protest and subsequent disqualification.
- 2.5 The race committee may require owners/skippers to declare that these requirements have been met.

#### **3. Abbreviations**

AHC	Allocated Handicap
BCT	Base Corrected Time
BCH	Back Calculated Handicap
LBCH	Limited Back Calculated Handicap
LBCHU	Limited Back Calculated Handicap Upper
LBCHL	Limited Back Calculated Handicap Lower
LBCHD	Limited Back Calculated Handicap Discard
CHC	Calculated Handicap
IPH	Initial Provisional Handicap
P	Provisional Handicap

#### **4. GLYC Performance Handicap**

- 4.1 Handicaps are issued and updated by the Handicap Sub-committee.
- 4.2 If a handicap is queried then it is to be resolved by the Handicap Sub-committee and if necessary referred to the Sailing Committee of that club

## **5. Method of Calculation of GLYC Performance Handicap**

- 5.1** Select the Corrected Time of the boat positioned 45% of the way down the fleet from the winning boat on Corrected Time. This then becomes the "Base Corrected Time" for that particular race.
- 5.2** Back Calculate the handicaps for each boat by dividing the Base Corrected Time by the boat's Elapsed Time: viz:-

$$\text{BCH} = \text{BCT} / \text{Elapsed Time (for each boat)}$$

- 5.3** Discard BCH values that are less than LBCHD (i.e. 75% of the Allocated Handicap).
- 5.4** Apply Limited Back-Calculated Handicaps
- If the BCH is between 75% and 90% of the Allocated Handicap then the recorded LBCH shall be LBCHL (i.e. 90% of the Allocated Handicap).
  - If the BCH is above 110% of the Allocated Handicap then the recorded LBCH shall be LBCHU (i.e. 110% of the Allocated Handicap).
- 5.5** All other BCH values to be recorded as calculated without applications of limits (i.e. between 90% and 110%), in these cases BCH=LBCH.
- 5.6** From the Allocated Handicap and the BCH (or LBCH) for the last race, the new Calculated Handicap shall be:-

$$\text{Calculated Handicap} = 1/2 \text{ Allocated handicap} + 1/2 \text{ BCH (or LBCH)}$$

- 5.7** This new handicap is the Calculated Handicap.
- 5.8** At the discretion of the Handicapper, the Calculated Handicap becomes the new Allocated Handicap.

## **6. Alterations to a GLYC Performance Handicap**

- 6.1** A boat may cease to qualify for a GLYC Performance Handicap and revert to a Provisional Handicap at the Handicapper's discretion if the boat has less than five Performance Handicap analysed results in the preceding 12 months.

## **7. Provisional Handicaps**

- 7.1** An Initial Provisional Handicap will be allocated according by the GLYC Handicap Sub-Committee's and may be adjusted at the Handicap Sub-committee's discretion.
- 7.2** The Provisional Handicap will be recalculated, using calculation per Para 5.7 above.
- 7.3** A win or a discard for a boat on a Provisional Handicap should be reviewed by the Handicapper and the Provisional Handicap changed if required.

*This performance handicapping system is based on that developed by Yachting Victoria and used for keelboat racing on Port Phillip.*