



## PHRF-LO 2024 Season Championship

### Definition of the Chipstead High Point Scoring Method (Amended for use for the PHRF-LO Season Championship)

#### 1. Scope

This document defines the Chipstead High Point Scoring method applicable for the PHRF-LO Season Championship. This scoring system was developed by Chipstead Sailing Club. This scoring system has been adapted from the original Chipstead method for this championship. These provisions apply as permitted by Rule 90.3(a) of the World Sailing Racing Rules of Sailing.

#### 2. Principles

The aim of this method is to produce scores for the championship series that are based upon each boat's performance while reflecting as fairly as possible the degree of competitiveness in each event across a range of entry numbers and divisions.

The key features of the scoring system are:

- At the end of the Season Championship the winner is the boat with the highest points score.
- The points scored for each event are totalled, counting up to the prescribed maximum number of events to count.
- For any particular finishing position in an event, a boat is allocated a greater score if it beats more boats.
- The points scored for winning an event gradually increases towards 100 as the number of starters increases, while at the same time the score for a retirement gradually decreases towards a minimum score of 5.
- The score for a retirement is equivalent to finishing in "last +1" place.

#### 3. Scoring Method

Points are scored in accordance with a formula in which:

- The largest possible score for winning a race is 100, achievable in large fleets ( $N > 47$ ).
- The lowest possible score for a retirement is 5.

##### Score for Boats that Complete the Event

The Points Scored (S) for finishing in position P in an event for which there are N starters is determined using the following formula:

$$S = 95 \times \left[ \frac{(N+1-P)}{N} (1 - 0.986682e^{-0.1622N}) + 0.81475e^{-0.1622N} \right] + 5$$

For each individual event the points score, S, determined by the formula is rounded to 0.1.



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### Score for a Retirement

Boats that fail to finish an event after starting or retire after finishing will be awarded points equal to finishing in position "last plus one". In the formula the retirement score is determined by setting:  $P = N + 1$

### Score for a Disqualification or "Did-Not-Start"

Zero points will be scored for any boat that does not start (DNS), does not compete (DNC) or is disqualified (DSQ).

### **4. Maximum Number of Events to Count**

The championship ranking of positions shall be in the order of the largest points score, counting up to 4 events from the list advertised on the PHRF-LO website.

### **5. Resolution of Ties**

If there is a championship score tie between two or more boats, each boats championship scores shall be listed in order of best to worst, including if necessary any discarded scores, and at the first point where there is a difference the tie shall be broken in favour of the boat with the highest points score.