



PORT ADELAIDE SAILING CLUB INC
RACING COMMITTEE

The Top Yacht Handicap System for 2019/2020

CALCULATING THE HANDICAP FOR THE NEXT RACE

The **Allocated Handicap** (AHC) is the handicap used for the current race. For race 1, this handicap is allocated by the handicapping committee. For subsequent races, the AHC is the CHC calculated from the previous race in a series.

The **Back Calculated Handicap** (BCH) is calculated by the system and is the handicap that each competitor would have sailed in order that all competitors finished with the same corrected time. For BCH the reference time will be that of 46% of the fleet.

The **Calculated Handicap** (CHC) is calculated by the system as a result of performance in the current race using the Top Yacht Exponential Handicapping System. It is the handicap that will be used for the next race.

For the calculation process, each BCH will be restricted to a maximum difference (higher or lower) from the current AHC of the race from which it is derived. This maximum is known as a Clamp. The BCH with the clamps applied is called the CBCH.

Provided that the Upper or Lower Limits are not exceeded, the BCH will be restricted by the clamps to produce the CBCH.

RECOMMENDATIONS FOR 2019-2020 SEASON

LIMITS/CLAMPS

Upper and Lower Limits

Upper Limit is +15% of the AHC for all races except Twilights where it is +25% of the AHC.

The Lower Limit is -10% for all races, except Twilights where it is +5% of the AHC

During a series, boats typically have one great performance and some bad due to breakages, etc. Limits are a mechanism to accommodate these anomalies.

These function as follows:

- If the BCH is above the upper limit, the full BCH is used with no clamp applied. Two or more consecutive BCH's above this limit are considered as improving performance. Thus the second and subsequent consecutive occurrences will use an amplified BCH in calculating the AHC for the next race.
- If the BCH is below the lower limit, the competitor is assumed to have broken something etc. and the BCH is not representative of a boat's normal performance. In this case, the BCH for that race is ignored and the CHC will remain unchanged.

Upper and Lower Clamps

The BCH is clamped at $\pm 6\%$ of the AHC for all races except Twilights where they are $+20\%$ of the AHC and -10% of the AHC to produce the CBCH.

The different settings of Limits and Clamps for Twilights is aimed at making the handicaps fluctuate more rapidly and thus giving more boats the opportunity of placing.

The **Exponential System** does not use any data from previous races in calculating the handicap for the next race, it simply focuses on the current race.

AHC R1 set by the Handicap Committee

$$\text{AHC R2} = \frac{2}{3} \text{AHC R1} + \frac{1}{3} \text{CBCH R1}$$

AHC R3 = $\frac{2}{3}$ AHC R2 + $\frac{1}{3}$ CBCH R2 and similar for remaining races.

PENALTY SCORES (Note: calculations are based on series entrants only)

DNC: number in series (including non-starters) + 1 BFD: number of series starters + 1

DNF: number of series starters + 1

RET: number of series starters + 1

DNS: number of series starters + 1

TLE: number of series finishers + 30% of the number of series starters (rounded) but no greater than the number of series starters

DSQ: number of series starters + 1 greater than the number of series starters

OCS: number of series starters + 1

ARB: Finishing place + 20% of series entrants

DROPS: (different from SI's – choose which one the Sailing committee wants)

Inside /Outside Series:

Total 7 Race per series - 2 drops if all races completed or 1 drop if less than 7 races – this results in best 5 results count for championship. (20%)

Twilight Series

Twilight Series 1 Total 10 Races – 4 drops per series (40%) – best 6 races

Twilight Series 2 Total 10 Races – 4 Drops per series (40%) – best 6 races

Winner Overall Twilight Series – Total lowest score of both series combined.

Winter Series 5 Races in total - 1 drop, best 4 races (20%)