

Submission: **NED 1**

Reporting committee: **MEASUREMENT COMMITTEE**
RATING OFFICERS COMMITTEE

STERN HEIGHT AS A DEFINITION FOR ORC CLUB PURPOSES

PROPOSAL

Additionally define the aftmost point of the hull (stern) in the offset file. Extend the LPP to facilitate boat trim calculations based on displacement/stern height.

RATIONALE

The ultimate intention of this submission is to provide an alternate to the LPP routine which calculates freeboards from a club displacement input (ORC Club). This so-called "pessimisation" routine requires even today over 10 minutes computing time and is in practice circumvented by workarounds.

Boat trim can also be calculated from boat weight (displacement entered directly) and stern height, and this is the essence of the proposal. A strong point of this method is that stern height is easy to measure because a layman cannot measure freeboards. Displacement entered directly can be either declared (ORC Club) or measured (crane weight). This proposal anticipates a growing interest in ORC if crane weighing is used to measure displacement.

Please bear in mind that this is for Club certificate purposes only. This proposal supports an alternate method to process Club certificates when freeboards are not measured. Freeboard points might not be validated in the Club offset or data may be simply owner-declared.

There are quite a number of offsets around where the underwater body is pretty accurate but freeboards are discussable. In these cases the proposed option can be of help especially when boat weight is known, for instance with an IRC endorsed certificate