



Burgess Trophy Interschool Regatta, Friday, 28th February 2025

SAILING INSTRUCTIONS

Organising Authority: Hamilton Yacht Club (HYC), Lake Rotoroa, Hamilton

1	RULES
1.1	In each series racing will be governed by the rules as defined in <i>The Racing Rules of Sailing</i> 2021 - 2024 and Yachting New Zealand (YNZ) Safety Regulations Part 1 shall apply.
2	ELIGIBILITY AND ENTRY
2.1	The regatta is an interschool fleet racing competition for teams from the Waikato Thames Coromandel region. The regatta is open to single or double-handed monohull classes up to 4.7m in length. ILCA 7 (Laser standard), ILCA 6 (Laser Radial), 3.7, Zephyr, Starling, P Class, and Optimist are regularly sailed on Lake Rotoroa. Foiling centreboarders, multihulls, and windsurfers are excluded from the Burgess Regatta.
2.2	The size of a school team is not limited to a certain number of boats (see scoring section below).
2.3	A range of sailing skills is expected, but at a minimum each sailor must have the ability to sail around a course unassisted in moderate wind, right a capsized sailing dinghy, and have a basic understanding of the fleet racing rules of sailing.
2.5	For a boat class to form a fleet at least five boats of that class must enter the regatta. Classes with less than five boats will sail in one or two open fleets. Two open fleets will be created if the classes in the open division have a broad range of expected performance, splitting the classes into one slower, and one faster open fleet. Races for the open fleet(s) will be scored using corrected times applying boat based handicaps based on the following sources – Portsmouth Yardstick, Great Lakes Handicaps, Australian Yardsticks, or where no figure is available for a particular class of boat, based on the principle race officers (PRO) estimate. At the discretion of the PRO if either the ILCA 6 or ILCA 7 have less than five boats entered then these two classes may be combined in a single fleet and scored using corrected times as per the open fleet system.
2.6	School team entries will be accepted through the HYC secretary via email, secretary@hyc.org.nz Email notice of entry MUST be given by Wednesday 26 February at the latest.
2.7	Eligibility to represent a school will be determined according to the guidelines given in the Constitution of the New Zealand Secondary Schools' Sports' Council Incorporated.
2.8	Entry fees: \$15 per sailor, payable to Hamilton Yacht Club by 26 Feb 2025. Entry fee payable to HYC 03-0306-0201534-00. Include sailor's name(s), or the school's name if paying as a group; and the code 'Burgess'

2.9	When racing skippers have an obligation to make sure that their boats are readily identifiable by the tower staff. In general this means having a unique number and class insignia on their sail.
3	SCHEDULE OF RACES
3.1	Registration: 0900-1000hr and Briefing 1000hr Friday 28 th February at the HYC Clubrooms
3.2	Racing Schedule: The first race will be not less than 30min after the briefing. Up to five races are scheduled with up to three races back to back.
3.3	No warning sound for races will be made after 1530hr.
4	VENUE All racing will occur within the confines of Lake Rotoroa, Hamilton.
5	THE COURSES Due to the tight confines and variable winds of this sailing venue non-standard course layouts will often be used. These will be explained at the race briefings.
6	THE START
6.1	Starts will be boat starts, or tower starts. Any changes to the starting sequences or starting marks listed below will be explained at the briefing.
6.2	Boat Start: The start line shall be between an orange staff on the committee boat and the yellow starting mark. Each fleet will be started with the standard starting signal sequence (<i>RRS</i>) of flags and horns. The period between the preparatory signal and the starting signal may be less than four minutes. See sailing instructions (section 10) for further detail.
6.3	Tower Start: The start line shall be between a green mark closer to the tower and the yellow starting mark. Instead of class flags and preparatory flags the tower lights will be used as described below. The period between the preparatory signal and the starting signal may be less than four minutes. See sailing instructions (section 10) for further detail.
6.4	Classes starting under a general recall shall restart after all the other classes have started.
7	THE FINISH Generally the finishing line will be the between two green buoys. Any variation to this will be explained at the briefing.
8	TIME LIMITS AND TARGET TIMES
8.1	The target duration for all races 25– 45 minutes. Note: any failure to meet the target time will not be grounds for redress.
8.2	If no boat has passed Mark 1 within the 20 minutes the race will be abandoned.
9	PROTESTS AND REQUESTS FOR REDRESS
9.1	For protests where a boat is alleged to have broken a rule of part 2, or rule RRS31 arbitration will be offered (See section 1.2 for notes on changes to rule 44.1).
9.2	For each class, the protest time limit is 30 minutes after the last boat has finished the last race of the day or 30 minutes after the race committee signals no more racing for the day, whichever is later.
9.3	Protest notices will be posted no later than 30 minutes after the protest time limit to inform competitors of hearings in which they are parties or named as witnesses. Hearings will be held in the HYC clubrooms unless otherwise stated on the protest notice.
10	SCORING
10.1	A custom high points scoring system will apply. Boats are awarded points on the basis of their placing within their fleet. A boats total score is the sum of their individual race

	<p>scores. All sailed races count towards a boats total score. The team score is the sum of the scores awarded to the top five boats in each school team, or if the team size is 5 or less than boats then the sum of the scores awarded to all the boats in that team. The team with the highest score will be awarded the Burgess Trophy.</p>
10.2	<p>Custom High Point Scoring System $2+10*(s/s+3)*\ln((s+4)/(p+4))/\ln((s+4)/5)$ (calculated to one decimal place) s = number of boats reaching the start area p = finishing place ln = natural logarithm DNF = 1, arbitration penalty (ARB) = 20% reduction in points or 2 points, whichever is greater, and did not compete (DNC) and all other codes are awarded zero points Any ties in series scoring will be resolved using the Appendix A system. A table listing the spread of points based on fleet size is attached as an appendix to these sailing instructions.</p>
10.3	Two races must be completed to constitute a series.
11	SAFETY REGULATIONS
11.1	Buoyancy vests or lifejackets, complying with the requirements of the YNZ Safety Regulations shall be worn at all times while sailing. Failure to comply with this requirement may result in disqualification without protest.
11.2	Boats retiring shall advise the committee boat or the RO as soon as possible when retiring from a race. Failure to comply with this requirement may result in disqualification from the series without protest.
11.3	Boats must sign-on, using the sheet provided, before the start of racing, and sign off at the end of the days racing. Failure to comply with this requirement may result in disqualification without protest.
12	REPLACEMENT OF CREW OR EQUIPMENT Substitution of damaged or lost equipment will not be allowed unless authorised by the RO. Requests for substitution shall be made to the RO at the first reasonable opportunity.
13	SUPPORT BOATS No support boats will be allowed on the lake.
14	PRIZES
14.1	Prize giving will be held as soon as possible after the last race and the Burgess Cup awarded to the school with the highest team score.
15	DISCLAIMER OF LIABILITY Competitors participate in the regatta entirely at their own risk. See rule 4, <i>Decision to Race</i> . The organizing authority will not accept any liability for material damage or personal injury or death sustained in conjunction with or prior to, during, or after the regatta.
16	INSURANCE Each participating boat should be insured with valid third-party liability insurance.
17	GENERAL INFORMATION
17.1	Please bring your own Lunches. There will be a sausage BBQ after the sailing.
17.2	Open Bic boats are available for hire from WTYA Youth Development. Enquiries to waikatochairman@gmail.com In addition, some sailing clubs may have Optimists or other classes available for hire. Contact your respective club.

--	--

Appendix 1 – HYC Custom Highpoints Scoring system examples

Points are calculated using the formula below.

$$2+10*(s/s+3)*\ln((s+4)/(p+4))/\ln((s+4)/5) \quad (\text{calculated to one decimal place})$$

s = number of boats reaching the start area, p = a boats finishing place, ln = natural logarithm

DNF = 1, arbitration penalty (ARB) = 20% reduction in points or 2 points, whichever is greater, and did not compete (DNC) and all other codes are awarded zero points. Any ties in series scoring will be resolved using the Appendix A system.

Points for 1st place increases with the size of the fleet. If all the boats that start a race also finish a race then the last placed boat always scores 2 points. The distribution of points follows a curve which is steeper at the start, so that the difference in points between 1st and 2nd is larger than between 2nd and 3rd, and the difference in points between 2nd and 3rd is larger than between 3rd and 4th, etc (within the limits of rounding to one decimal place). Table below shows points spread for 5, 7, 10, 14, & 20 boat fleets.

Placing	5 boats	7 boats	10 boats	14 boats	20 boats
1 st	8.3	9	9.7	10.2	10.7
2 nd	6.3	7.4	8.3	9.1	9.7
3 rd	4.7	6	7.2	8.1	8.8
4 th	3.3	4.8	6.2	7.2	8.1
5 th	2	3.8	5.3	6.5	7.4
6 th		2.8	4.5	5.8	6.9
7 th		2	3.8	5.2	6.3
8 th			3.2	4.6	5.8
9 th			2.6	4.1	5.4
10 th			2	3.6	5
11 th				3.2	4.6
12 th				2.8	4.2
13 th				2.4	3.9
14 th				2	3.6
15 th					3.3
16 th					3
17 th					2.7
18 th					2.5
19 th					2.2
20 th					2