

**ORDER RACE OFFICIAL EQUIPMENT LIST**

**SIGNAL / MARKSET BOAT**

1	Quest 187 18ft center console powerboat with Johnson 150hp outboard & EZ Loader trailer
1	15lb Danforth anchor with chain, 5lb mushroom counter weight and 200ft 3/8 line
1	Extra 50ft 3/8 anchor line with thimble
1	10lb coated Danforth anchor with 100ft 3/8 line
many	Raymarine depth, speed and water temp
2	OEM and custom rod holders for displaying signal flags
2	telescoping boat hooks

**RACE MARKS**

6	3ft tall x 2 ft diameter orange ETP cylinders with 4ft anti-chafe wrapped counter weight chains
2	3ft tall x 2 ft diameter yellow ETP cylinder with 4ft anti-chafe wrapped counter weight chain
2	22in diameter Taylor Made red round fender style marks
2	22in red bouncy balls with 4ft anti-chafe wrapped counter weight chains
1	22in blue bouncy ball with 4ft anti-chafe wrapped counter weight chain
5	2ft diameter 2ft tall orange APS pumpkin marks
1	Lithium powered handheld inflator with multiple nozzles, 2 batteries & charger in Pelican case
2	12v cigarette outlet wired inflators with multiple nozzles

**ANCHORS**

6	10lb river anchors with 32in of 3/8in chain
3	10lb mushroom anchors with 32in of 3/8in chain
2	5lb mushroom anchors with small chains and galvanized clip shackles

**GROUND TACKLE**

10	100ft x 3/4 inch reflective orange anchor lines with threaded shackles on adjustable line keepers
4	75ft x 3/16 inch white anchor lines on small line keepers
2	60ft 1/4in lines with shackles at the end
2	75ft 3/8 in lines
3	25ft 3/8 in lines for shallow water or towing dinghy sailboats

**SIGNAL BOARDS**

1	single digital course number board
1	3-digit course direction board
1	3-digit course distance board
2	Charlie "change" boards
1	white board with markers

**SIGNAL FLAGS**

FLAG	PURPOSE	12x15	12x24	18x24	22x22	24x24	24x26	35x35
RC Blue	Race Committee	5ft pole					5ft pole	
RC yellow	Mark Set Boat		5ft pole					
orange	start line			no pole	6ft pole			10ft pole
orange	start line pin end							10ft pole
P	prep					7ft pole		10ft pole
I	starts					7ft pole		
Z	starts				5ft pole	7ft pole		
U	starts					7ft pole	10ft pole	
BLACK	starts						no pole	
X	indiv recall	5ft pole				7ft pole	7ft pole	10ft pole
1st SUB	gen recall		7ft pole			7ft pole	7ft pole	10ft pole
C	change course					7ft pole		7ft pole
S	shorten course					7ft pole		10ft pole
AP	postpone		7ft pole	5ft pole				10ft pole
N	abandon			5ft pole		7ft pole		10ft pole
H	N + signals ashore					no pole		
A	N + end of day					no pole		
blue	finish line							5ft pole
M	missing mark							8ft pole
yellow	misc	5ft pole	no pole					
V	monitor radio					7ft pole		
L	hall, follow-me		5ft pole					10ft pole
Opti Green	Class flag						5ft pole	
Optimist	Class flag	5ft pole		no pole		5ft pole		
Butterfly	Class flag					5ft pole		
Radial ILCA 6	Class flag						7ft pole	
Laser ILCA 7	Class flag					5ft pole	7ft pole	
Club 420	Class flag					5ft pole		
pink	coach flags (12)	5ft pole						
extra poles	long & short							

**TEAM RACING SIGNAL BOARDS & FLAGS**

1	Team Race starting signal board with 10 different sail color squares
1	Custom Race Number signal board
2 sets	Green/Red/Black Team Race Umpire flags

**MATCH RACING SIGNAL FLAGS & SIGNAL BOARDS**

1	24x24 Foxrot "F" flag on 6ft pole
2	16x24 solid blue on 3ft pole
2	16x24 solid yellow on 3ft pole
1	16x36 pennant 1 on 6ft pole
1	16x36 pennant 2 on 6ft pole
1	16x36 pennant 3 on 6ft pole
2	24x24 Charlie "C" flag with 16x24 red flag on 6ft pole
2	24x24 Charlie "C" flag with 16x24 green flag on 6ft pole
1	Custom Race Number signal board

**ON THE WATER JUDGING FLAGS**

2 sets	Green/Red/Black Team Race Umpire flags
2	yellow flags for Match Race & RRS 42 Fleet Race judging/umpiring

**ELECTRONICS & SOUNDING INSTRUMENTS - ETC**

1	permanently mounted VHF radio (on 18ft center console boat)
5	Handheld VHF radios with chargers, 2 with remote mic
7	two-way walkie-talkie radios
1	Garmin handheld GPS with mounting brackets
2	ADP-AR 6X waterproof rangefinders
1	Windtronics 2 wind speed instrument w/ flex mount
2	Windie360 wind speed instruments w/ extension handle
1	Vaavus WeatherPro Bluetooth wind meter
1	WindRate handheld wind meter
1	stopwatch
3	digital voice recorders on lanyards
1	Windex wind direction indicator on carbon pole
many	yarn windsticks
1	Nautos IRIS 50 hand bearing puck compass
2	handheld fluid compasses
1	iStart automatic sound starter with custom rod holder mount & extra set of remote horns
4	battery powered 50 watt bullhorns with extra batteries
4	handheld air horns - variety of nozzle sizes
many	cans of compressed air
1	70 dB handheld electronic horn
1	Spalding Windor electronic whistle
3	manual whistles on lanyards
1	7x50 binoculars with integrated compass
1	pocket binoculars
many	spare batteries for all the above
3	Clipboard with document compartments

**SMARTPHONE APPS**

iNavX	TrackTrac	BuoyWhale	RadaruS+
iSailGPS	Radur Omega	BuoyData	RadaruPlus
MarkSetBot	RaduScope	WindAlert	NOAA Radar
Bouy Zone	SailFlow	Windy	iTactic
Kwindoo Tracker	PredictWind	StormRadar	Lightning Pro
Kwindoo Race Committee	SailDrone	Wunderground	WindHub

**REGATTA REGISTRATION & SCORING**

<i>*All packed in a rolling Pelican case</i>	
laptop with all relevant software	
printer w/ extra ink cartridges	
stapler, pens, pencils, markers, dry-markers, etc	
extension cord and power strip	
pink ribbon for identifying Opti Green Fleet boats	

**ELECTRONIC JUDGING & PROTEST HEARINGS**

3	printed Racing Rules of Sailing
1	ISSA Procedural Rules
1	ISSA Dinghy Class Rules
1	ICSA Procedural Rules
1	ICSA Dinghy Class Rules
1	Portsmouth DSN Target time glossary
1	Target Times Tables for numerous boat designs
1	Optimist Go / No-Go Table
1	full set of magnetic protest models
1	Case Book
1	Appeals Book
1	Judges Manual
1	Rule 14 Decision Tree
1	Protest Hearing Procedures
1	Preferred Standard Wording
1	Scribing Guide
1	Contact & Damage
4	Facts & Conclusions
1	Validity Reference Page
1	World Sailing Jury Policies & Discretionary Penalties
blank	Protest Forms
blank	Protest Decision Forms
blank	Validity Checklists
blank	Hearing Checklists
blank	Hearing Schedule Tables
blank	Hearing Results Tables

*\* most of the above also on smartphone and iPad Pro*