

CORDER RACE OFFICIAL EQUIPMENT LIST

SIGNAL / MARKSET BOAT

	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 90ft 3/8 anchor line with thimble
1	10lb coated Danforth anchor with 100ft 3/8 line
	Raymarine depth, speed and water temp
many	OSM and custom rod holders for displaying signal flags
2	telescoping boat hooks

SPACE MARKERS

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	12x 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 1/4 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	Team Race starting signal board with 10 different sail color squares
1	Custom Team Racing Race Number signal board
1	white board with markers

SIGNAL FLAGS

FLAG	PURPOSE	12x16	12x24	18x24	22x22	24x24	24x26	35x35
RC blue	Race Committee	5ft pole					5ft pole	
RC yellow	Mark Set Boat		5ft pole		no pole	5ft pole		8ft pole
orange	start line							10ft pole
	start line pin end							10ft pole
P	prep					7ft pole		
I	starts						7ft pole	
Z	starts						7ft pole	
U	starts						7ft pole	10ft pole
BLACK	starts						no pole	
X	indy recall	5ft pole			7ft pole	7ft pole	10ft pole	
1st SUB	gen recall	7ft pole				7ft pole	10ft pole	
C	change course						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							5ft pole
blue	finish line							5ft pole
M	missing mark							8ft pole
yellow	misc	5ft pole	no pole					
V	monitor radio					7ft pole		
L	hail, 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 (20)	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 Footrot "F" flag on 6ft pole
1	24x24 Papa "P" 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
1	16x36 pennant 4 on 6ft pole
1	24x24 Charlie "C" flag with 16x24 red flag on 6ft pole
1	24x24 Charlie "C" flag with 16x24 green flag on 6ft pole
1	24x24 Charlie "C" flag with 16x24 white flag on 6ft pole
1	24x24 Charlie "C" flag with 16x24 red flag on 4ft pole
1	24x24 Charlie "C" flag with 16x24 green flag on 4ft pole
1	24x24 Charlie "C" flag with 16x24 white flag on 4ft 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 IRS 42 Feet Race Judging/Umpiring

ELECTRONICS - TIMING - 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	ADAR 6X waterproof rangefinders
1	Windtronics 2 wind speed instrument w/ flex mount
2	Windie360 wind speed instruments w/ extension handles
1	Vaavod WeatherPro Bluetooth wind meter
1	WindMate handheld wind meter
1	stopwatch
4	digital clock/countdown timers with seconds display
3	digital voice recorders on lanyards
1	Windex wind direction indicator on carbon pole
many	yarn windsticks
1	7x50 binoculars with integrated compass
1	Nautos IRS 50 hand bearing puck compass
2	handheld fluid compasses
1	Start 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/whistle
1	Spalding Windor electronic whistle
3	manual whistles on lanyards
1	pocket binoculars
many	spare batteries for all the above
3	Clipboards with document compartments

SMARTPHONE APPS

iNavX	TrackTrac	BuoyWhale	RadartIS+
iSailGPS	Radar Omega	BuoyData	RadartPlus
MarkSetBot	RadarScope	WindAlert	NOAA Radar
Buoy Zone	SailFlow	Windy	iTactic
Kwindoo Tracker	PredictWind	StormRadar	Lightning Pro
Kwindoo Race Committee	SailDrone	Wunderground	WindHub

DIGITAL REGISTRATION & SCORING

	*All packed in a rolling Pelican case
	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

OFFICIALS JUDGING & PROTEST HEARINGS

3	printed Racing Rules of Sailing
	ISSA Procedural Rules
	ISSA Dinghy Class Rules
	ISCA Procedural Rules
	ISCA Dinghy Class Rules
	Portsmouth DSN target time glossary
	Target Times Tables for numerous boat designs
	Optimist Go / No-Go Table
	Full set of magnetic protest models
	Case Book
	Appeals Book
	Judges Manual
	Rule 14 Decision Tree
	Protest Hearing Procedures
	Preferred Standard Wording
	Scribing Guide
	Context & Damage
	Facts & Conclusions
	Validity Reference Page
	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