

SAILING INSTRUCTIONS

RACING RULES: 1.

- Official notices and amendments will be available online through the EVENT NOTICE BOARD on this event's page of the CRA 1.1 website. Any notice posted online by 6pm on the day before any race will be considered applicable and will not be distributed by the R/C boat. Notices posted after 6pm will be available at the R/C Boat on race day(s) when code flags "L" and "A" are on hoist during Race Check-In.
- 1.2 Local Advisory: Be advised that no vessel has the "right-of-way" over a large ship in the deep-water channel. USCG Navigational Rules 9(b) and 10(j) will be strictly enforced. All competitors are asked to observe USCG Navigational Rule 9, which in part reads "a sailing vessel shall not impede the passage of a vessel that can safely navigate only within a narrow channel or fairway" and Rule 10 which in part reads, "a sailing vessel shall not impede the safe passage of a power-driven vessel following a traffic lane." Further, USCG Navigational Rule 34, in part reads "....When vessels in sight of one another... doubt whether sufficient action is being taken by the other to avoid collision, the vessel in doubt shall immediately indicate such doubt by giving at least five short and rapid blasts on the (horn)." To keep from infringing this rule, do not cross the bow of any ship in the channel within two of her ship lengths. Any boat participating in a CRA race that is identified in any complaint from a RC boat, the Coast Guard, Harbor Pilot or commercial vessel captain that has sounded 5 horns will be presumed to have infringed this instruction. RRS 60.2. 63.1 and A5 are modified to add that the R/C may disgualify a vacht infringing this instruction without a hearing. RRS 90.3 is modified to add that this disgualification shall not be excluded.
- 1.3 NAVAL and CRUISE SHIP PROTECTION ZONE: The Naval and Cruise Ship Protection Zone is a 500 yard regulated area of water surrounding all US Naval and Cruise Ship Vessels. All vessels within 500 yards of such vessel shall operate at the minimum speed necessary to maintain safe course and speed and shall proceed as directed by an official patrol. No vessel is allowed within 100 yards of Naval and Cruise Ship traffic. [DP]
- 1.4 Per RRS 42.3(h), competitors may use an engine or other propulsion method to avoid situations in 1.4 or 1.5 provided they gain no significant advantage in the race.
- RRS 55 is changed by adding the following sentence to the rule: 'However, discarding biodegradable bands when setting a 1.5 sail is permitted.'
- 1.6 Sailing Instructions 1.2, 1.5, 3.2, 5.7, 5.8, 5.10, 6.2, 9.2, 10.2, 10.4, 11, and 12.1 modify the RRS.

2. SCHEDULE OF RACES

- 2.1 Two races are scheduled for all classes except Class 6, non-spinnaker boats, which will have one race.
- 2.2 The scheduled time of the warning signal for the first race is **11:55am**. The warning signal for the second race will be as soon as possible after the completion of the first race.

3. ENTRIES & CHECK-IN:

- 3.1 Boats will have completed their "Check-In" when they check-in with and are acknowledged by the R/C, while clearly displaying their sail number and backstay pennant. Check-In will commence when the "L" flag is hoisted. Visual and radio check-in (VHF 68) are acceptable until the first Warning Signal. Visual check-in may continue after the first warning at the sole discretion of the R/C (but not within one minute of any start). If you are in costume, please check-in at the RC boat for picture-taking and judging.
- 3.2 All boats shall have clearly visible sail numbers. Missing, improper, inconsistent, unclear, illegible, or numbers other than those used for Check-In, are not permitted and may result in being scored DNF. [DP] This modifies RRS Appendix A5.

4. CLASSES. CLASS FLAGS AND STARTING ORDER:

4.1 A numeral pennant, matching the class, must be flown from the backstay of all PHRF boats while checking in, while racing, and while finishing.

4.2 The classes for this regatta are:

| Class | | | Class Flag Numeral Pennant |
|-----------|----------------|---------------------|------------------------------------|
| Class 1 | PHRF Spinnaker | RLC of -999 to -1 | #1 |
| Class 2 | PHRF Spinnaker | Sport Boats | #2 |
| Class 3 | PHRF Spinnaker | RLC of 0 to +79 | #3 |
| Class 3.5 | PHRF Spinnaker | RLC of +80 to +99 | BOTH #3 and #5 and yellow streamer |
| Class 4 | PHRF Spinnaker | RLC of +100 to +144 | #4 |
| Class 5 | PHRF Spinnaker | RLC of +145 to +999 | #5 |
| Class 6 | Non-Spin | All Ratings | #6 |
| Class 7 | Cruising Class | All Ratings | #7 |
| Class 8 | Multi-hulls | All Ratings | #8 |
| Class 9 | J-105 Class | - | #9 |

4.3 The starting order will generally be in numeric order. The RC may cancel or combine starts. It is the responsibility of a boat to start at her signaled start time.

5. THE START AND RACING AREAS:

- 5.1 The starting area is in the vicinity of the $\frac{1}{2}$ mile marker mid-Harbor Island.
- 5.2 The racing area covers the general locale known as San Diego Bay. For navigation, refer to NOAA Chart #18773, San Diego Bay.
- 5.3 The "L" flag, when on hoist, indicates the R/C is "On Station" for race Check-In procedures.
- 5.4 The Starting Line will lie between a staff with an orange flag on the R/C vessel and an inflatable buoy or autonomous mark ("A" Mark) near the R/C boat. (NOTE: "A" Mark is also the Pin End of the Start/Finish line.)
- 5.5 If the Race Committee boat is damaged as a result of a boat breaking a rule, that boat shall pay for the repairs.
- 5.6 Boats whose warning signal has not been made shall avoid the starting area during the starting sequence for other classes. Otherwise, this may be seen as a breach of RRS 24.1. [DP]
- 5.7 A boat starting later than 5 minutes after her starting signal will be scored Did Not Start (DNS) without a hearing. This changes rule A5.
- 5.8 After properly starting, a boat shall not sail through the "Starting Line" or "Finishing Line" unless actually finishing. This ranks as an obstruction for the purposes of Part 2 of the RRS. Skippers in violation of this paragraph shall be subject to a DSQ imposed by the R/C without benefit of a hearing. This modifies RRS 63.1, Requirement for a Hearing, and Appendix A5, Scores Determined by the Race Committee. *However, when either end of the line as defined in 5.4 or 8.1 is removed, there is no line and therefore no obstruction exists!*
- 5.9 All races will be started in accordance with RRS 26. As a courtesy, one minute prior to the first warning the R/C may sound 4 horn blasts.
- 5.10 The use of an autonomous mark will not be grounds for redress. Routine movement of autonomous marks will not be grounds for redress. This includes minor readjustments, marks returning to station after having been pushed away by a competitor, and collisions with marks that are not actively marks of the course presuming these collisions do not cause damage. This modifies RRS 62.1 (a).

6. RECALLS:

- 6.1 Individual Recalls will be signaled by a horn blast as the long sound signal, in accordance with RRS 29.1. As a courtesy, the R/C will attempt to hail boats "On Course Side" (OCS) as soon as possible over a loud hailer and/or on VHF 68, but it is the responsibility of each boat to start properly.
- 6.2 Failure of electronic equipment, failure to hear a hail, order of hail, or delay in hailing will not be grounds for redress. This modifies RRS 62.1 (a).
- 6.3 A R/C assist vessel may be stationed near the Pin Buoy end of the starting line and is also authorized to identify and hail premature starters.

7. COURSES:

- 7.1 The Race Course Number will be displayed onboard the R/C boat no later than the first warning signal for each class. Courses may be posted and changed up to the warning signal for any class.
- 7.2 The course will be selected from the attached course sheet. All marks listed are considered rounding marks.

8. THE FINISH:

- 8.1 The Finish Line will lie between an Orange Flag onboard the R/C boat and a nearby buoy ("A" Mark).
- 8.2 In the event that the pin mark is missing, boats may finish by passing on either side of the R/C, within 3 boat lengths.
- 8.3 Boats finishing during a "Start Sequence" should elect to finish within 2 boat-lengths distance outboard of the R/C boat.

9. TIME LIMIT:

- 9.1 If no boat in a class has finished by **4:30 PM** on the day of the race, the race will be abandoned for that class.
- 9.2 Boats not finished by **5:00 PM** will be recorded as DNF. This modifies RRS 35.
- 9.3 If an "E" (echo) signal flag is raised and on hoist prior to the first warning of a race, these finish deadline times may be extended at the discretion of the R/C.
- 9.4 When a boat retires from a race, **the R/C must be notified before leaving the course area.** Informing the R/C vessel can be accomplished by either (a) sailing (motoring) past the R/C vessel OR (b) radioing the R/C vessel (VHF 68). Failure to do this may result in entry rejection for other CRA races. If the R/C vessel does not answer, leave the information with another race participant to avoid punitive action, or keep trying.

10. SCORING:

- 10.1 One race is required to be completed to constitute a series.
- 10.2 Each boat's score shall be the total of her race scores. No score will be excluded. This modifies RRS Appendix A2.
- 10.3 PHRF "RLC" ratings will be used as the default for scoring all races and to determine class breaks. However, the PRO may elect, on a race-by-race basis for each class, to use the Buoy ratings, should conditions permit. Courses signaled with a "B" designation will indicate Buoy ratings are expected, but the final decision will be determined based on actual race conditions. PHRF non-spinnaker offsets will not be used for scoring.
- 10.4 The PRO's decision regarding the rating assigned will not be grounds for redress. This modifies RRS 62.1 (a).

11. PENALTIES:

- 11.1 RRS V1, <u>Penalty at the Time of the Incident</u>, shall apply: "The first two sentences of Rule 44.1 are changed to: 'A boat may take a One-Turn Penalty when she may have broken one or more rules of Part 2 or Rule 31 in an incident while racing. However, when she may have broken one or more rules of Part 2 while in the zone around a mark other than a starting mark, her penalty shall be a Two-Turns Penalty."
- 11.2 RRS V2, <u>Penalty Taken After a Race</u>, shall apply: "After a race, a boat that may have broken one or more rules of part 2 or Rule 31 in an incident while racing may take a Post-Race Penalty for that incident. A boat takes the penalty by delivering a written notice to a race officer that identifies the race number and when and where the incident occurred. The penalty shall be a 30% Scoring Penalty, calculated as stated in rule 44.3(c). However, rules 44.1(a) and (b) apply, and the penalty shall not be taken after a protest hearing involving the incident has begun."

12. PROTESTS:

- 12.1 *RRS 61 is modified to add this additional requirement:* A boat intending to protest shall report her intentions and the boat(s) being protested to the R/C boat on station upon finishing or retiring and obtain R/C acknowledgment. Radio reports of protests are not accepted except from boats that are retiring from the race.
- 12.2 As there is no postrace party this month, protests shall be filed electronically to Colleen Cooke, sailorcookie@cox.net or (619)852-5010, within 90 minutes of the docking of the RC signal boat. The Protest Time Limit will be posted on the EVENT NOTICE BOARD. The Protest Committee may extend this time if there is good reason to do so.
- 12.3 The parties involved will be listed, in the order of filing, on the <u>EVENT NOTICE BOARD</u> and protests will be heard as soon as practicable, which will be at a later date. This posting constitutes the notice required by RRS 63.2, Time and Place of the Hearing.

13. RESPONSIBILITIES, SAFETY & PERSONAL FLOTATION:

- 13.1 It is the sole responsibility of the skipper of each boat to decide whether or not to start and/or continue to race.
- 13.2 After the starting sequence is complete, the R/C vessel will make every attempt to monitor VHF channel 68.
- 13.3 Not withstanding any safety requirements, the ultimate safety of a boat and her crew is the sole and inescapable responsibility of the owner or charterer. He/she must do his/her best to ensure that the boat is fully sound, thoroughly seaworthy and manned by an experienced crew who are physically fit to face bad weather. He/she must be satisfied as to the soundness of hull, spars,

rigging, sails and all gear. He/she must ensure that all safety equipment is properly maintained and stowed, and that crewmembers know where it is stowed and how it is used.

13.4 While racing, each competitor will be required to have onboard and accessible, a "wearable" PFD. The use of PFDs by individuals and skippers is encouraged at all times. If in the opinion of the R/C conditions warrant the use of PFDs, the R/C will signal the "Y" flag accompanied by multiple rapid horn blasts, indicating RRS 40 is in affect.

14. RADIO COMMUNICATION

- 14.1 The Race Committee will monitor VHF Ch.68 for radio traffic regarding the regatta. Please contact them to notify the Race Committee of a boat's intent to withdraw from racing per 9.3.
- 14.2 Except in an emergency, a boat that is racing shall not make voice or data transmissions and shall not receive voice or data communication that is not available to all boats. This restriction also applies to mobile phones. [DP]
- 14.3 In the event of an on-the-water emergency, contact the US Coast Guard on VHF Channel 16 directly and immediately.

15. RACE RESULTS & TROPHY AWARDS:

- 15.1 Race results will be published on the CRA web site (<u>www.cortezracing.com</u>). No official after race party this month due to SD County health recommendations during the Coronavirus pandemic.
- 15.2 Regatta prizes will be awarded using the listed procedure: one prize in each class of 2 4 boats, two prizes for 5 7 boats, three prizes for 8 or more, based on the number of starters in the class. And of course, don't miss the Halloween Costumes: Best Team Costumes (2), Funniest, Scariest, and Most Original!
- 15.3 Regatta and Costume prize winners will be contacted by our sponsor, **Kathy O'Brien** at the **Doyle Sails loft** at 2805 Canon Street, San Diego, CA, 92106, (619)226-1133, to arrange retrieval of prizes.

16. DISCLAIMER OF LIABILITY

Sailing is an activity that has an inherent risk of damage and injury. Competitors in this event participate entirely at their own risk. See RRS 4, Decision to Race. The race organizers (CRA, race committee, protest committee, host club, sponsors, or any other organization or official) will not be responsible for damage to any boat or other property or the injury to any competitor, including death, sustained as a result of participation in this event. As a condition of their participation in this regatta, competitors release all claims they may have against CRA and its officers, directors, members, committees and employees for damage to property, personal injury or death sustained in conjunction with or prior to, during or after the regatta. Competitors shall be responsible for damage or injury caused by their breach of The Racing Rules of Sailing or applicable governmental rules for the avoidance of collision.

CRA Race Committee Chair Colleen Cooke (619)852-5010 sailorcookie@cox.net





Cortez Racing Association 2020 HALLOWEEN REGATTA COURSE TABLE

All races start and finish at "A". Marks are to be rounded to port unless they are followed by "s". Marks followed by "s" are to be rounded to starboard. Distances are calculated from current charts and are subject to change due to occasional buoy repositioning by the US Coast Guard.

| Course # | | | Ma | urks | | | Handicap Distance | Course # | | Marks | | | Handicap Distance | | | |
|-----------------|----------|------------|-----------|-----------|----------|------|----------------------|-------------------|------------------|--------------|----------|----------|----------------------|------|-----|---------------------|
| 1 | Х | 21 | | | | | 2.0 | 68 | 20 | 24 | Z 20 | | _ | | 5.8 | |
| 2 | X X | 20 FM19 | 21 | | | | 2.2 2.4 | 69 70 | 20 20 | FM19 26 | 20 Z | 23 | Z | | 6.9 | 8.6 |
| 4 | X | 20 | FM19 | | | | 2.4 | 71 | 20 | 26A | Z | | | | | 9.3 |
| 5 | Х | 19 | 21 | FM19 | | | 3.2 | | | | | | | | | |
| 6 | X | Z | | 0.1 | | | 3.4 | 72 | <u>X</u> | 18 | Z | | | | | 4.3 |
| 7 | X X | FM19 22 | 20 | 21 | | | 3.8 3.9 | 73 74 | X X | 14 16A | Z Z | Х | Z | | | 6.9 9.0 |
| 9 | X | 21 | Х | 21 | | | 4.0 | 75 | X | 9 | Z | | | | | 9.4 |
| 10 | Х | 20 | 22 | FM19 | | | 4.2 | 76 | Х | 9 | 22 | Z | | | | 10.3 |
| 11 | Х | 22 | Z | | | | 4.4 | 77 | Х | 11 | Z | Х | Z | | | 11.8 |
| 12 13 | X X | 20 FM19 | FM19 X | X FM19 | 21 | | 4.6 | 78 79 | X | 11 5 | FM19 | Х | Z | | | 10.9 11.9 |
| 13 | X | 23 | ^ | FIVITS | | | <u>4.0</u> 5.1 | 80 | X | 5 | Z 22 | Z | | | | 12.9 |
| 15 | X | 23 | FM19 | | | | 5.3 | 81 | Х | 9 | Z | X | Z | | | 12.8 |
| 16 | Х | 23 | Z | | | | 5.5 | 82 | Х | 18 | 22 | | | | | 4.8 |
| 17 18 | X X | 24 Z | Х | FM19 | | | 5.8 5.8 | 83 84 | X | 18 16A | 24 22 | Х | Z | | | 6.7 9.4 |
| 10 | X | 24 | FM19 | FIVITS | | | 5.9 | 85 | X | 18 | 26 | ^ | 2 | | | 9.4 |
| 20 | Х | 24 | Z | | | | 6.3 | 86 | Х | 16A | 24 | Х | Z | | | 11.2 |
| 21 | Х | 20 | Z | Х | Ζ | | 7.1 | 87 | Х | 16A | 26 | Х | Z | | | 14.0 |
| 22 | X | FM19 | Х | Z | Х | FM19 | 8.2 | 88 | Х | 16A | 28 | Х | Z | | | 15.3 |
| 23 24 | X X | 26 Z | Х | Z | | | 8.6 8.6 | 89 | Х | 22 | 18 | 21 | | | | 6.4 |
| 25 | X | 26 | FM19 | 2 | | | 8.7 | 90 | X | 22 | X | Z | | | | 7.3 |
| 26 | Х | 26 | Z | | | | 9.1 | 91 | Х | 22 | Z | Х | Z | | | 7.8 |
| 27 | X | Z | X | FM19 | <u>X</u> | Z | 9.3 | 92 | X | 22 | X | 22 | Z | | | 8.2 |
| 28 | Х | Z | X | Z | Х | Z | 10.3 | 93 94 | X X | 24 24 | 18 X | 21 Z | | | | 8.2 9.1 |
| 29 | 19 | 21 | | | | | 2.7 | 95 | X | 24 | Z | X | Z | | | 9.6 |
| 30 | 19 | FM19 | | | | | 3.1 | 96 | Х | 24 | Х | 22 | Z | | | 10.0 |
| 31 | 19 | Z | | | | | 4.1 | 97 | X | 26 | 18 | 21 | _ | | | 11.0 |
| 32 33 | 19 19 | 21 22 | X Z | 21 | | | <u>4.6</u> 5.1 | 98 99 | X X | 24 26 | X X | 24 Z | Z | | | 10.8 11.9 |
| 33 | 19 | 22 | 19 | 21 | | | 5.2 | 100 | X | 20 | X | Z | | | | 13.2 |
| 35 | 19 | FM19 | X | FM19 | | | 5.5 | | | | | | | | | |
| 36 | 19 | FM19 | 19 | FM19 | | | 6.1 | 101 | X | 21 | X | | | | | 3.2 |
| 37 38 | 19 19 | 23 24 | Z | | | | 6.2 6.9 | 102 103 | X | FM19 Z | X X | | | | | 3.6 |
| 39 | 19 | Z | 19 | FM19 | | | 7.1 | 103 | 19 | FM19 | 19 | | | | | 5.0 |
| 40 | 19 | Z | X | Z | | | 7.6 | 105 | 19 | Z | 19 | | | | | 6.1 |
| 41 | 19 | Z | 19 | Z | | | 8.2 | 106 | Х | 17 | Х | 16 | | | | 6.7 |
| 42 | 19 | 26 | Z | | | | 9.7 | 107 | <u>X</u> | 19 | Z | 16A | | | | 7.4 |
| 43 | 18 | FM19 | | | | | 3.2 | 108 109 | X | 15 18 | X Z | 16 17 | | | | 7.9 |
| 44 | 18 | Z | | | | | 4.1 | 110 | X | 18 | 24 | Z | Х | | | 8.4 |
| 45 | 18 | 22 | Z | | | | 5.1 | 111 | Х | 20 | Z | 21 | 23 | FM19 | 18 | 8.9 |
| 46 | 18 | 21 | 18 | 21 | | | 5.1 | 112 | <u>X</u> | 17 | Z | 17 | | | | 9.9 |
| 47 48 | 15 18 | FM19 23 | Z | | | - | 5.8 6.2 | 113 114 | X | 15 15 | Z Z | 17 19 | 15 | | | <u>10.7</u> 11.6 |
| 49 | 18 | FM19 | 18 | FM19 | | | 6.3 | | ~ | | - | | 10 | | | |
| 50 | 17 | 22 | Z | | - | | 6.6 | 115 | Х | 21 | 18 | | | | | 3.9 |
| 51 | 18 17 | 24 EM10 | Z 19 | FM19 | | | 6.9 | <u>116</u> 117 | X | 22 | X X | | | | | 5.1 |
| <u>52</u> 53 | 17 | FM19 22 | Z | FIVLIS | | | 7.6 | 117 | X 19 | 23 22 | X | 19 | | | | <u>6.3</u> 6.7 |
| 54 | 17 | 23 | Z | | | | 7.7 | 119 | 19 | 23 | 19 | | | | | 7.6 |
| 55 | 18 | Z | 18 | Z | | | 8.1 | 120 | 19 | 24 | 19 | | | | | 8.3 |
| 56 | 17 | 24 | <u>Z</u> | EM40 | | | 8.4 | 121 | X 10 | 24 | X | 16A | | | | 9.1 |
| 57 58 | 17 18 | FM19 26 | 17 Z | FM19 | | | 9.1 9.7 | 122 | 19 | 26 | Х | | | | | 10.5 |
| 59 | 17 | Z | 19 | Z | | | 9.7 | 123 | 20 | 21 | 18 | | | | | 3.4 |
| 60 | 17 | 26 | Z | | | | 11.2 | 124 | 20 | Z | 20 | | | | | 3.8 |
| 61 | 17 | Z | 17 | Z | | | 11.2 | 125 | 18 | FM19 | X | 18 | | | | 5.3 |
| 62 63 | 20 20 | 21 FM19 | | | | | 1.5 2.0 | <u>126</u> 127 | <u>16A</u> 17 | FM19 FM19 | X | 19 18 | | | | <u>6.4</u> 6.9 |
| 64 | 20 | Z | | | | | 3.0 | 127 | 17 | 21 | 17 | 10 | | | | 7.6 |
| 65 | 20 | FM19 | 20 | FM19 | | | 3.8 | 129 | 18 | Z | 15 | | | | | 8.6 |
| 66 | 20 | 22 | Z | | | | 4.0 | 130 | 17 | Z | 17 | | | - | | 9.2 |
| 67 | 20 | 23 | Z | | | | 5.1 | 131 | 15 | Z | 17 | | | | | 10.3 |

| | | | | | | | | | | | _ | | 1 | | 1 | | |
|-----|------|----|--------|----|--------|----|------|-----|-------|------|-----|-----|------|-----|----|------|------|
| 132 | 16A | | | | | | 3.2 | 179 | FM19 | X | Z | | | | | | 4.6 |
| 133 | 17 | | | | | | 3.6 | 180 | Z | X | Z | | | | | | 5.6 |
| 134 | Х | 16 | | | | | 4.0 | 181 | Z | 19 | Z | | | | | | 6.3 |
| 135 | 15 | | | | | | 4.7 | 182 | Z | Х | 18 | Z | | | | | 6.5 |
| 136 | 12 | | | | | | 6.1 | 183 | Z | Х | 16A | Z | | | | | 7.4 |
| 137 | 10 | | | | | | 7.2 | 184 | Z | Х | Z | Х | FM19 | | | | 8.0 |
| 138 | 11 | 14 | 9 | | | | 8.9 | 185 | Z | Х | 14 | Z | | | | | 8.9 |
| 139 | 5 | | | | | | 9.8 | 186 | Z | 19 | Z | 19 | Z | | | | 10.3 |
| 140 | 10 | 17 | 10 | | | | 11.0 | 187 | Z | 17 | Z | Х | Z | | | | 11.3 |
| 141 | 5 | 9 | 5 | | | | 12.3 | 188 | Z | Х | Z | Х | Z | Х | Z | | 12.5 |
| 142 | 5 | 11 | 5 | | | | 13.4 | 189 | Z | 19 | Z | 19 | Z | 19 | Z | | 14.4 |
| | | | | | | | | | | | | | | | | | |
| 143 | FM19 | Х | | | | | 2.4 | 190 | 21 | Х | 21 | | | | | | 2.7 |
| 144 | FM19 | 19 | | | | | 3.1 | 191 | 21 | 19 | 21 | | | | | | 3.3 |
| 145 | Z | Х | | | | | 3.4 | 192 | 22 | Х | 21 | | | | | | 4.6 |
| 146 | Z | 19 | | | | | 4.1 | 193 | 22 | 19 | 21 | | | | | | 5.3 |
| 147 | Z | Х | FM19 | Х | | | 5.8 | 194 | 23 | Х | 21 | | | | | | 5.8 |
| 148 | Z | Х | Z | Х | | | 6.9 | 195 | 24 | Х | 21 | | | | | | 6.5 |
| 149 | Z | 19 | Z | 19 | | | 8.2 | 196 | 24 | 19 | 21 | | | | | | 7.1 |
| 150 | Z | Х | FM19 | 19 | FM19 | 19 | 9.5 | 197 | 24 | 22 | 23 | Х | 21 | | | | 7.7 |
| 151 | Z | Х | Z Z | Х | Z Z | Х | 10.3 | 198 | 24 | 22 | 24 | Х | 21 | | | | 8.4 |
| 152 | Z | 19 | Z | 19 | Z | 19 | 12.3 | 199 | 26 | Х | 21 | | | | | | 9.3 |
| | | | | | | | | 200 | 26A | Х | 21 | | | | | | 10.0 |
| 153 | 21 | Х | | | | | 2.0 | 201 | 26A | 19 | 21 | | | | | | 10.6 |
| 154 | 21 | 19 | | | | | 2.7 | 202 | 28 | 19 | 21 | | | | | | 11.2 |
| 155 | 22 | Х | | | | | 3.9 | | | | | | | | | | |
| 156 | 22 | 19 | | | | | 4.6 | 203 | 22 | Z | | | | | | | 3.2 |
| 157 | 23 | Х | | | | | 5.1 | 204 | 22 | Z | Х | 21 | | | | | 5.2 |
| 158 | 24 | Х | | | | | 5.8 | 205 | 22 | FM19 | 19 | 21 | | | | | 5.4 |
| 159 | 24 | 19 | | | | | 6.5 | 206 | 21 | FM19 | Х | 21 | FM19 | Х | 21 | FM19 | 6.1 |
| 160 | 24 | 22 | 23 | Х | | | 6.9 | 207 | FM19 | 19 | 21 | 19 | 21 | | | | 6.3 |
| 161 | 24 | 22 | 24 | Х | | | 7.6 | 208 | 22 | FM19 | Х | 21 | Х | 21 | | | 6.8 |
| 162 | 26 | Х | | | | | 8.6 | 209 | 22 | Х | 22 | Z | | | | | 7.0 |
| 163 | 26A | Х | | | | | 9.3 | 210 | 24 | Z | Х | 21 | | | | | 7.0 |
| 164 | 26A | 19 | | | | | 9.9 | 211 | 22 | Z | Х | 22 | Z | | | | 7.5 |
| 165 | 28 | 19 | | | | | 10.6 | 212 | 22 | Х | 22 | 21s | Z | | | | 8.0 |
| | | | | | | | | 213 | 26 | Z | Х | 21 | | | | | 9.8 |
| 166 | 21 | 20 | FM19 | 20 | | | 3.4 | 214 | 24 | Х | Z | Х | 21 | | | | 10.0 |
| 167 | 21 | 20 | FM19 | 19 | | | 4.5 | 215 | 26 | Х | Z | Х | 21 | | | | 12.8 |
| 168 | FM19 | 19 | 21 | 19 | | | 5.6 | | | | - | | | | | | |
| 169 | 22 | X | FM19 | X | | | 6.3 | 216 | FM19s | 22 | Z | | | | | | 3.3 |
| 170 | 22 | X | Z | Х | | | 7.3 | 217 | FM19s | 24 | | | | | | | 4.7 |
| 171 | 23 | Х | Z | Х | | | 8.5 | 218 | 22s | 22A | Z | 22A | 22 | | | | 5.7 |
| 172 | 24 | X | Z | Х | | | 9.2 | 219 | FM19s | 22A | Z | 22A | 22 | | | | 5.9 |
| 173 | 24 | 19 | Z | Х | | | 9.8 | 220 | FM19s | 26 | | | | | | | 7.5 |
| 174 | 26 | Х | FM19 | Х | | | 11.0 | 221 | 22s | 22A | Z | 22A | Z | 22A | 22 | | 7.8 |
| 175 | 26 | X | Z | Х | | | 12.0 | 222 | FM19s | 26A | | | | | | | 8.1 |
| 176 | 26A | Х | Z | Х | | | 12.7 | 223 | FM19s | 28 | | | | | | | 8.8 |
| | | | | | | | | 224 | FM19s | 24 | 22 | 26 | | | | | 9.3 |
| 177 | FM19 | Х | FM19 | | | | 3.5 | 225 | FM19s | 28 | 22 | 24 | | | | | 10.6 |
| 178 | FM19 | 19 | FM19 | | | | 4.1 | 226 | FM19s | 26 | 22 | 26 | | | | | 12.1 |

Navigation Mark Descriptions:

"A" CRA YELLOW or ORANGE Inflatable, or ORANGE autonomous mark, South of the middle of Harbor Island

CRA YELLOW or ORANGE Inflatable, South of the west end of Harbor Island

"X" "Z" CRA YELLOW or ORANGE Inflatable, Southeast of the Embarcadero, near Star of India

Cement Fleet Mooring Buoy, SSE of the east end of Harbor Island FM19

Navigation Buoys - (refer to NOAA Chart 18773):

| 5 | SD 5, green channel buoy | 16A | SD 16A, red channel buoy | 23 | SD 23, green channel buoy |
|----|---------------------------|-----|---------------------------|-----|---------------------------|
| 9 | SD 9, green channel buoy | 17 | SD 17, green channel buoy | 24 | SD 24, red channel buoy |
| 10 | SD 10, red channel buoy | 18 | SD 18, red channel buoy | 26 | SD 26, red channel buoy |
| 11 | SD 11, green channel buoy | 19 | SD 19, green channel buoy | 26A | SD 26A, red channel buoy |
| 12 | SD 12, red channel buoy | 20 | SD 20, red channel buoy | 28 | SD 28, red channel buoy |
| 14 | SD 14, red channel buoy | 21 | SD 21, green channel buoy | 30 | SD 30, red channel buoy |
| 15 | SD 15, green channel buoy | 22 | SD 22, red channel buoy | | |
| 16 | SD 16, red channel buoy | 22A | SD 22A, red channel buoy | | |

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