

Marion to Bermuda Race 2021



Race Starts: June 18, 2021



So You Want to Race to Bermuda

- Why You Should Go
- The History
- The Race
- Preparing for The Race
 - The Boat
 - The Crew
 - Post Race
- Where to begin



Why Marion to Bermuda

Love of Sailing and Competition



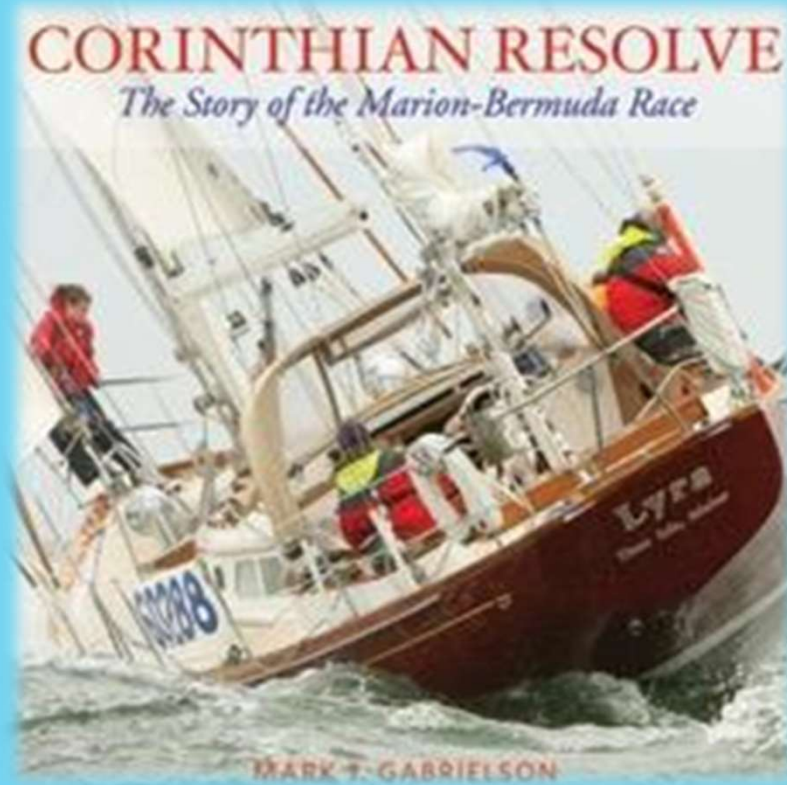
- Reasonable offshore passage
- Strategic and tactical challenges
- Fair competition
- Last celestial race

Adventure Accomplishment Comaraderie

Corinthian Resolve

The Story of the Marion Bermuda Race

Mark Gabrielson



“...a fine, often surprising sea story of men and women who share a distinctive understanding of what sailing really should be – **an adventure by amateur sailors in normal cruising boats** making their damp, exciting way across rough seas to a beautiful, beckoning, remote destination.”

John Rousmaniere

Why Marion to Bermuda?

Resources to ensure success



- Well managed race
- Experienced RC
- CoPilot Program
- Safety at Sea seminar

Why Marion to Bermuda? Simply... Bermuda



- Great landfall
- Events for entire family in Bermuda

**But really,
isn't this reason enough?**



Or Simply This



The History

- Founded in 1977
- Blue Water Sailing Club
- Royal Hamilton Amateur Dinghy Club
- Beverly Yacht Club



Marion Bermuda 2021

44 Years of Racing to Bermuda

- *Continued emphasis on Celestial Navigation*
 - Classes, copilots, webpage
 - 3% handicap benefit
- *Offshore Youth Challenge*
 - 66% of crew ages 16-23
 - Adult Sponsored & Coached
 - Academies
 - Colleges
 - Yacht Clubs
- *Manufacturer Classes*
- *Multihull class*



The Race

Start: Friday, June 18, 2021



Race Governance

- US Ocean Race
- Governed by
*US Safety Equipment
Requirements (USSER)*
(as modified for MBR)

Notice of Race

Sailing Instructions

Racing Rules of Sailing



2021 MBR Safety Requirements

US Safety Equipment Requirements

Ocean Race

www.ussailing.org/competition

Modified for Marion Bermuda

www.marionbermuda.com/preparation/documents

- Easier to understand; Self-contained (no external docs)
- Streamlined inspection
- Storm trysail not required (but strongly recommended)
- Ability to steer with rudder disabled
- HMPE lifelines no longer allowed (2017)
- **AIS required: both boat and crew (2021)**

The Race

Length on Deck:


- Founders Division
32' to 80'
- Big Yacht Division
81' to 100'
- Sail Training
Tabor Boy
Spirit of Bermuda



The Race

- ORR Rating System
 - improvements for 2021
 - conditions adjustment
 - request spin/ non spin/ both
- Partial measurement
- Certificate required
- Time on time rating
- Apply beginning Mar 15
- Received by RC by June 11

2006 OFFSHORE RACING RULE CERTIFICATE™

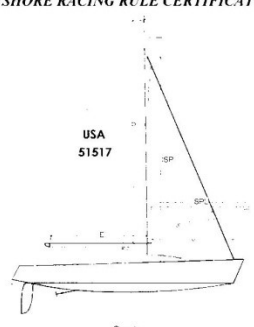


YACHT NAME: **ERLEICHDA**
 SAIL NUMBER: USA-51517
 ADDRESS: Dr Donald Crandall
 3981 Norton Hills Rd
 Marquette, MI 49841-4456

Signature: _____

CERTIFICATE# 138441 AGE DATE: 11/2006
 ISSUED DATE: 07/2006 22:07 PM
 YEAR VALID: 2006
 CLASS: 1121
 BUILDER: J/25
 OFFSETS FILE: J/25-1004-05 ABS PLAN: Not filed
 MEASUREMENT: SPECTRA/DALUS (Foot Boards)
 Firstboard Date: 6/2006
 Tacking Date: 7/26/2006
 RIG TYPE: Sloop
 SPINNAKER TYPE: None listed in file
 KEEL TYPE: Fractional
 PROP INSTALL: Fractional
 PROP TYPE: In-hull

LOA 42.01 DRAFT 8.924
 Panel L 79.688 ECE 0.000
 BMAX 76.248 Wet AREA 377.52
 Stability Index 141.8 PIPA 0.0402
 LPS 14.7 VCGM -2.229
 CREW 220K VCGM -24.51
 Fibre Fwd M 4.141 RMC 1.8962
 Fibre Aft M 2.401 RMC 1.1273
 SG 1.444 RMC 140.0
 SFFP 1.154 RMC 705.4
 SAPP 40.124 RMC 800.4
 DSDP Main 99.936 RMT 250.0
 Water Ballast 0 MCS 13.000



USA
51517


Genoa/Spinnakers Mainsail Meas Muzzen Meas

IG	40.000	P	26.500	PY	0.00
ISP	51.000	E	7.000	EY	0.00
J	148.000	HS	0.300	HY	0.00
LPGenoa	148.7%	MGT	0.00	MGTY	0.00
FSP	0.200	MGU	7.000	MGUY	0.00
AJE	00.000	MGW	11.700	MGWY	0.00
JR	00.000	MGL	0.00	MGLY	0.00
TPS	22.050	MDT1	0.10	MDTY1	0.00
SL	0.000	MDL1	0.00	MDLY1	0.00
SMW	0.000	MDT2	0.00	MDTY2	0.00
SF	0.000	MDL2	0.00	MDLY2	0.00
ASL	54.000	TL	8.00	TLY	0.00
AKG	20.000	MSWgt	6.00	ES	0.00
ASP	80.000	A Main	310.6	YSD	0.00
A Genoa	746.2			YSF	0.00
A Spin	0.00			YSMG	0.00
A Regen	1041.6			A Muzzen	0.00

TABLE OF RATINGS

	Time-on-Time (TOT)	6kt	8kt	10kt	12kt	16kt	20kt	24kt	A	B
OPH: 529.8										
CLOSED COURSE:	1.054	658.0	542.7	484.2	449.9	409.0	380.9	358.5	0.91286	73.03
WW 60% LW 40%:	1.046	894.0	722.9	632.9	582.3	523.6	486.4	453.7	0.83234	42.66
WW 90% LW 50%:	1.047	883.4	713.2	623.0	571.6	509.5	467.2	427.0	0.82848	37.56
Ocean Course:	1.125	816.8	628.7	521.8	451.2	373.9	330.7	299.3	0.80150	5.03
Ocean Non-Spin:	1.012	913.3	700.1	579.3	501.3	416.4	367.4	330.8	0.71779	3.34
Offshore Offwind:	1.061	760.4	607.3	522.5	468.2	398.8	347.3	303.0	0.85058	44.60

Chicago-Mackinac All-Purpose TOT: 1.058 Chicago-Mackinac Offwind TOT: 1.061
 ET = Elapsed Time CT = Corrected Time
 Time on Distance Scoring: CT = ET - (Rating - Rating Scratch Boat) x Distance
 Time on Time Scoring: CT = TOT x ET



www.ussailing.org/competition

*Founders Trophy Winner
Marion Bermuda Race 2019
Cordelia Blue Water Sailing Club*



The Race

Choice of Navigation

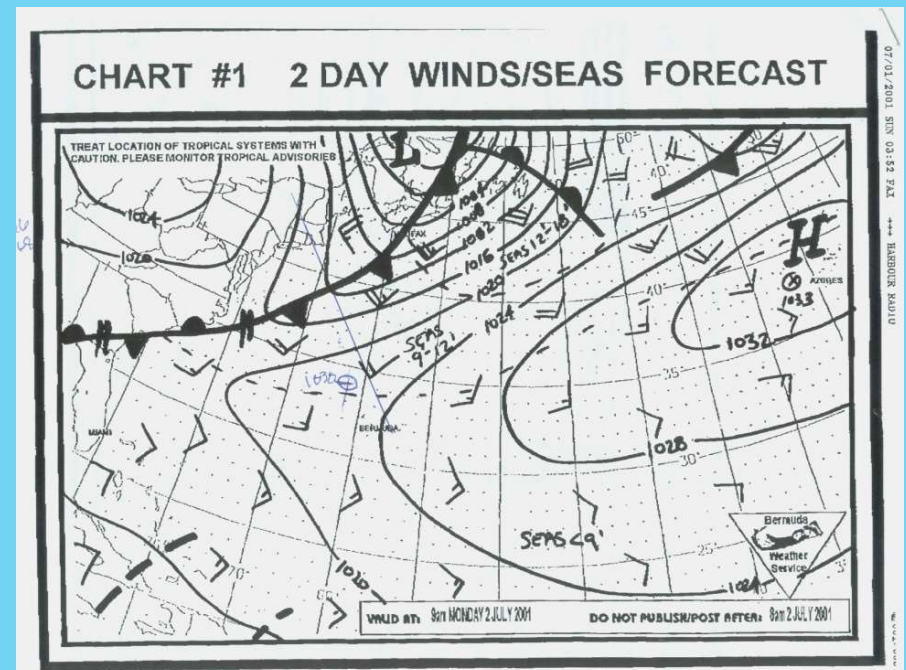
- **Celestial**
 - 3% rating benefit
- **Electronic**
- **Must declare navigation class by June 11, 2021**



The Race

Weather Information:

- **Prior to Captains Mtg**
 - Subscription weather
 - Route planning services
 - Private communications
- **Captains Meeting**
 - No subscription services or private communications
 - Publically available only:
 - Satellite phone, SSB
 - VHF, Cellphone



The Race

- 645 Nautical Miles
- Start: Marion, MA
- Finish: St. David's Light



The Race

Three Distinct Races:

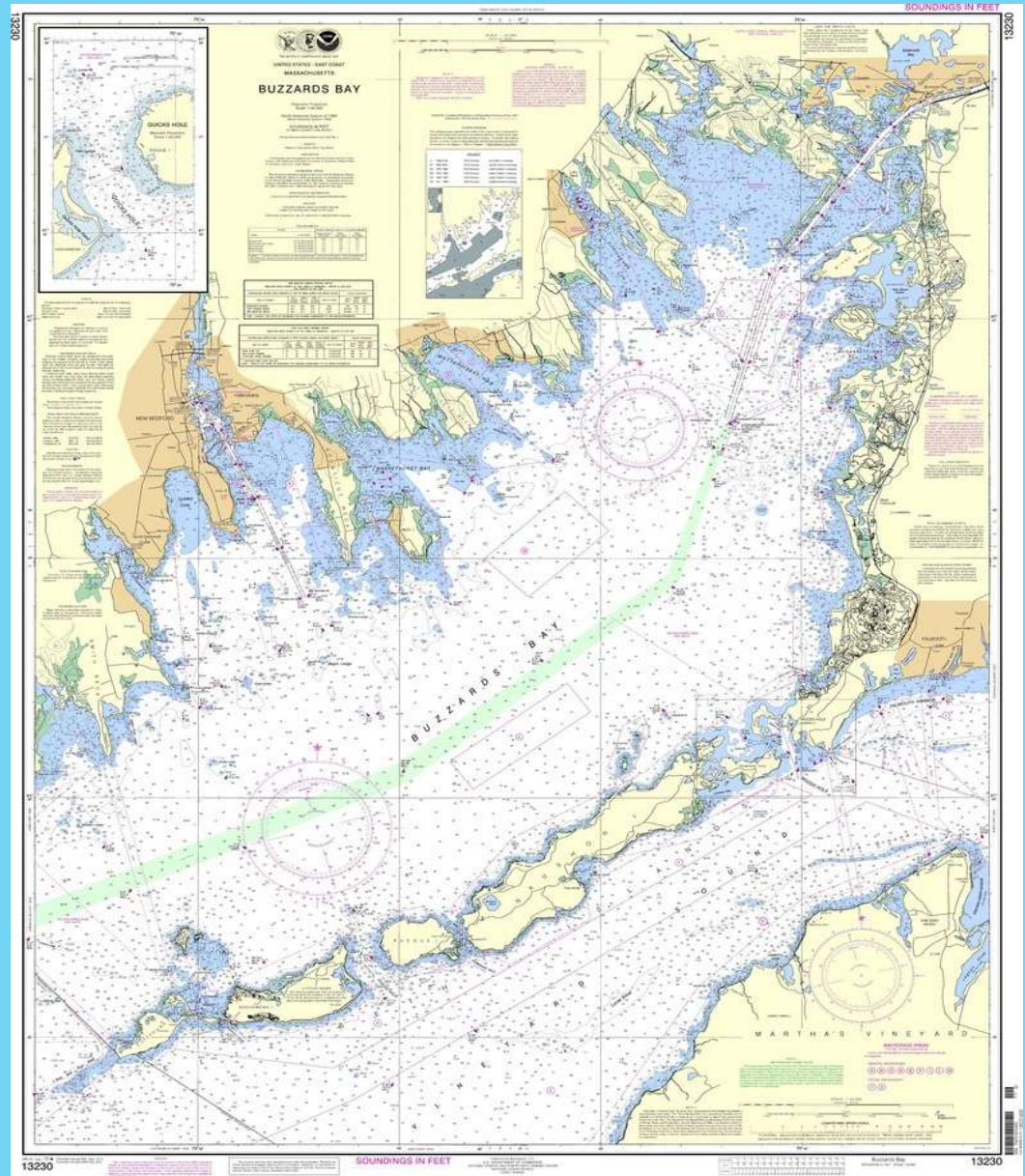
- Buzzards Bay
- Gulf Stream
- Approach to Bermuda



The Race

Buzzards Bay:

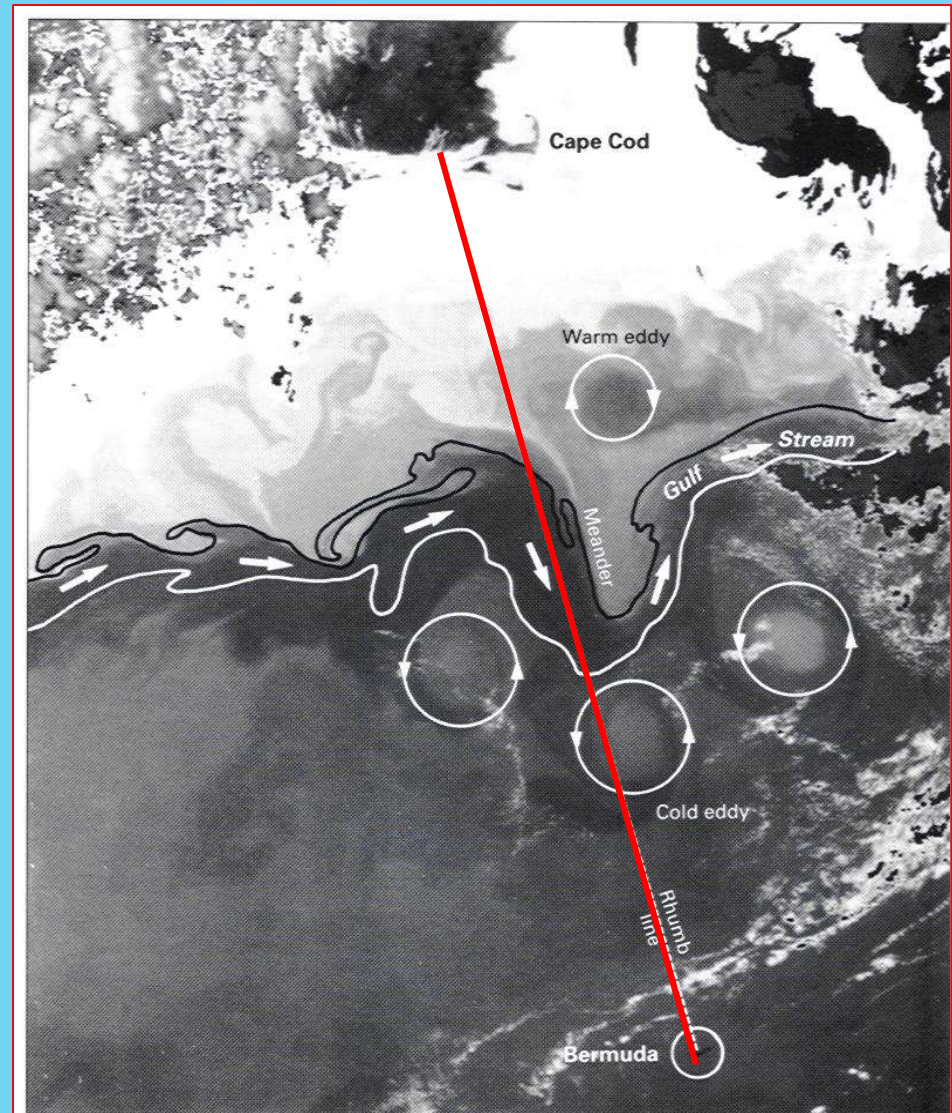
- Prevailing SW winds
- Beat down the Bay
- Round Sow & Pigs
Look out for those rocks!



The Race

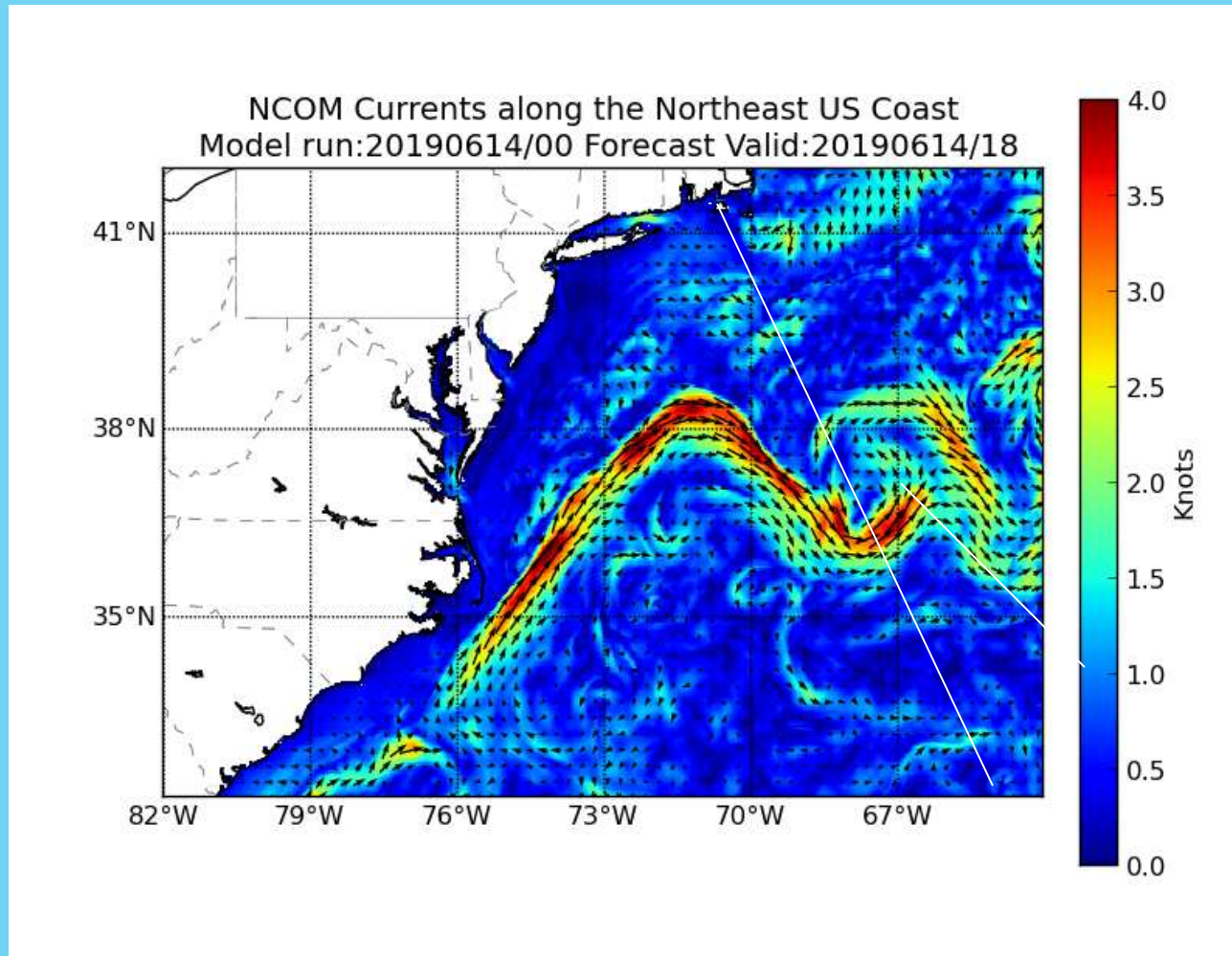
Gulf Stream:

- Reach in 2-3 days
- Has its own weather, current, and sea state
- Develop strategic plan of attack
- Information:
 - Gulf Stream Companion
 - Ocean Prediction Center
 - Safety at Sea Seminars
 - Routing services



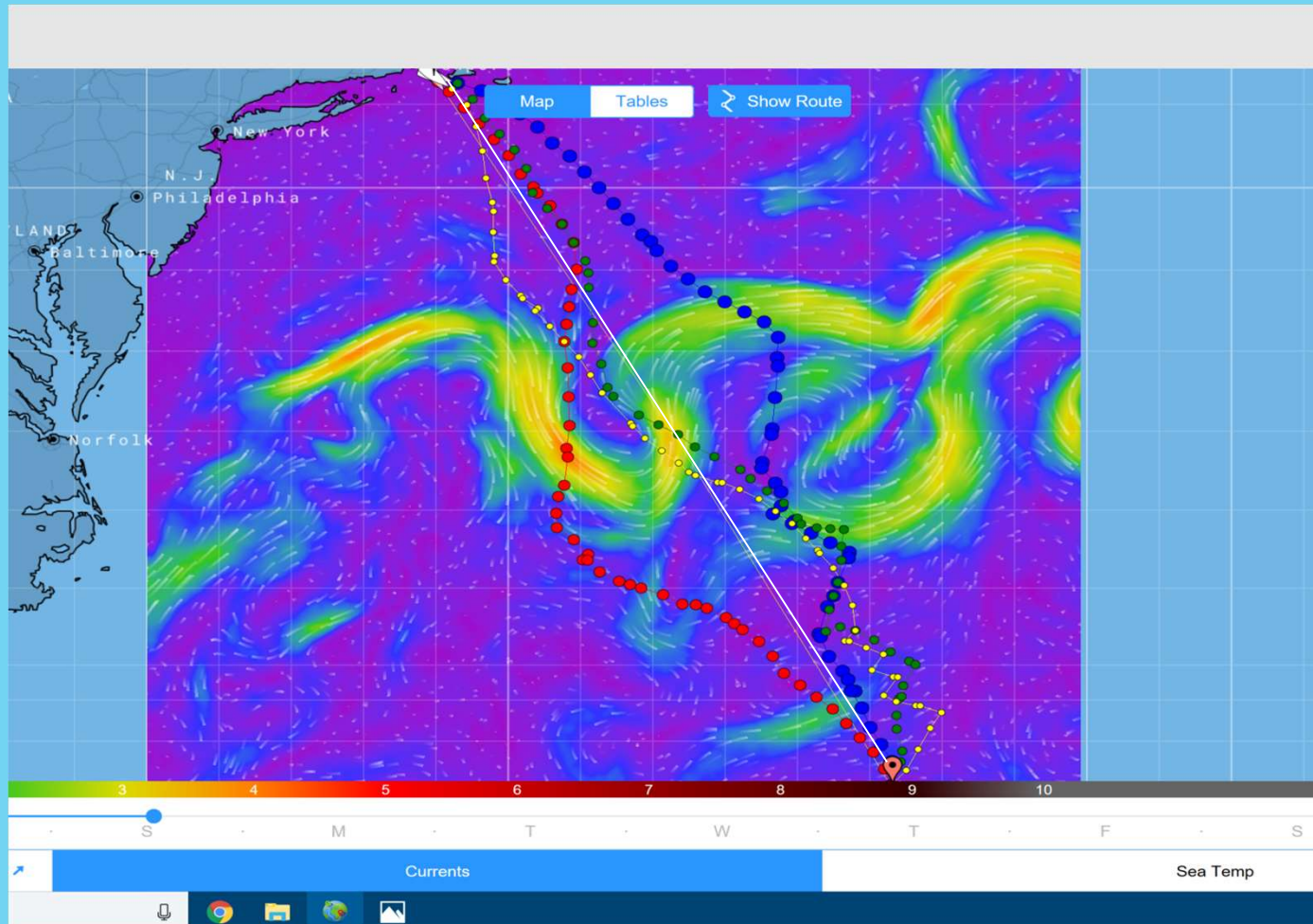
Gulf Stream- Race Day 2019

Ocean Prediction Center- National Weather Service



Gulf Stream Routing

Marion Bermuda 2019



The Race

Approach to Bermuda:

- The Bermuda high
- Read & re-read SI
- Check your charts
- Reefs, reefs, reefs
- St. David's Light and the Finish Line

Note: Finish is a bearing
not between the marks



Preparing for the Race

Review the requirements:

- Notice of Race
- Sailing Instructions
- US Safety Equipment Requirements
- Inspection checklist

www.marionbermuda.com



The Twentieth Marion-Bermuda Cruising Yacht Race Preliminary Notice of Race

Revision date: September 19, 2014

Start: Friday, June 19, 2015

1. ORGANIZING AUTHORITY AND SPONSORS

- The Organizing Authority (OA) is the Marion-Bermuda Cruising Yacht Race Association, Inc. (MBCYRA).
- The race is supported by:
 - The Beverly Yacht Club (BYC), Marion, Massachusetts.
 - The Royal Hamilton Amateur Dinghy Club (RHADC), Paget, Bermuda.
 - The Blue Water Sailing Club (BWSC), Boston, Massachusetts.

2. RACE DESCRIPTION

- The race will start in Buzzards Bay off Marion, Massachusetts, and finish off St. David's Head, Bermuda. The race will start on Friday, June 19, 2015 with the first warning signal scheduled for 1200 EDT. The start may be postponed if unusually heavy weather is predicted.
- The Marion-Bermuda Race is categorized as a US Sailing Ocean Race. It is a race of long distance, well offshore and in waters with strong winds, large waves, and currents, where yachts must be completely self-sufficient for extended periods of time, capable of withstanding heavy storms and prepared to meet serious emergencies where rescue may be delayed.

3. SPIRIT AND OBJECTIVES

- Since its inception in 1977, the Marion-Bermuda Race has been a Corinthian event, and yachts are accepted by invitation. The spirit of the race is that all yachts and crew are participating for the joy and pleasure of sailing, competition, and the camaraderie that accompanies such an off-shore event.
- The race provides an opportunity for cruising yachts and amateur crews to participate in an ocean race and a rendezvous in Bermuda. It encourages the development of blue water sailing skills on seaworthy yachts that can be handled safely offshore with limited crew.

Preparing The Boat

- Initial Contact with CoPilot
- Talk/Walk-Thru with CoPilot
- Request a courtesy inspection



Preparing the Boat

- For well founded yachts
- Permanently installed
 - Permanent bunks
 - Enclosed head
 - Permanent galley
 - Comfortable cruising
- Ballast
 - Water ballast allowed
 - Retractable keel allowed
 - No canting keels



Preparing the Boat

- **Spare GPS and compass**
- **Charts**yes, paper
- **Fuel range: 250 nm**
- **Water: 2 gal/crew**
- **Emergency food and water**
- **2 manual bilge pumps** (above & below decks)

Preparing the Boat

Secure items with
airborne potential:

- Floor Boards
- Drawers
- Batteries
- Stove
- Tool boxes



Preparing the Boat

- **Anchor & rode**
- **Emergency nav lights**
 - Permanent or portable
 - Separate power source
- **Drogue** (*Recommended*)



Preparing the Boat

Secure the mast

*Not Mandatory, but
Strongly Recommended
(Safety Requirement 2.6)*

- At the step
- At the deck



Preparing the Boat

Hatch boards secured

Outside cabin

Inside cabin



**Soft plugs for each
thru hull**



Preparing the Boat

**Inspect quadrant
and
steering sheeves**



Preparing the Boat

Anti-Jibe Device



Preparing the Boat

**Jack Lines
port & starboard**



Preparing the Boat

- Storm Jib with orange patches - *Required*
- Solent Stay - *Recommended*
- Storm Trysail - *Recommended*
- Display sail numbers when sails not set



Preparing the Boat

Rescue Devices:

- MOB System
- Retrieval System
- Life Raft



APPROVED LIFE RAFT

SOLAS ISAF ORC ISO 9650-1



Preparing the Boat

SOLAS Flares *Required*



note: Handheld LED distress flare meets USCG requirements for night time use only

Preparing the Boat

EPIRB

Registered to boat

Required

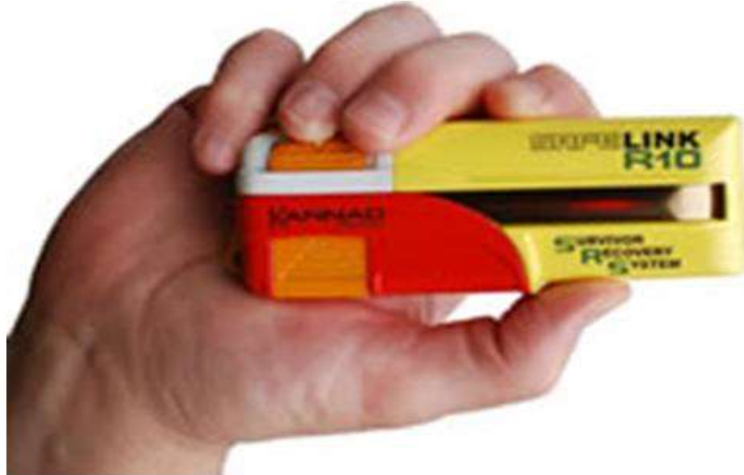


Preparing the Boat

PERSONAL AIS REQUIRED

Personal AIS Transmitters

- Alerts those nearby of MOB
- Easily Attaches to Life vest or held in pocket



Preparing the Boat

PLB NOT REQUIRED BUT RECOMMENDED



Preparing the Boat

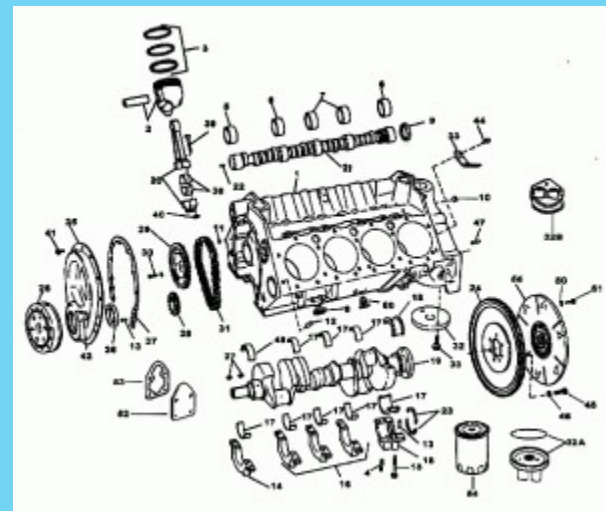
Communications

- **Satellite phone or other satellite comm device**
- **VHF** boat; handheld
(DSC/GPS recommended)
- **Cell Phone**
- **GPS**
- **Weather receiver**



Damage Control

- Engine Spares Kit
 - Impellers
 - Filters
 - Belts
 - Manuals: Engine manual and parts diagrams
 - Special tools specific to your engine



Damage Control Gear



Damage Control

- Damage Control Kits



Two Manual Pumps

In Cabin and on Deck

Minimum capacity 10 GPM



Preparing the Boat



Comprehensive listing of contents at
www.landfallnavigation.com

Abandon Ship Bag

- EPIRB / GPS
- VHF (waterproof)
- Flares
- Strobe light
- Signal mirror

- First aid kit
- Water
- Emergency rations



Landfall Navigation
151 Harvard Avenue
Stamford, CT 06902
P: 203-487-0775
F: 203-487-0776
www.landfallnav.com

ABANDONSHIP BAG CONTENTS

SURVIVAL GEAR

1. EPIRB
2. Handheld Waterproof VHF Radio
with AA Battery Case & Spare Batteries
3. 3ea. Red Handheld & Parachute Flares
and 2 Orange Smoke Canisters
4. Handheld GPS w/ Spare Batteries
5. Dye Marker in Baggy
6. Waterproof Flashlights & Spare Batteries
& 12 Red Chemical Stick Lights
7. Medical Kit & First Aid Book
8. Water Maker or Water Packet Kit
9. Sea Sick Pills & Multi Vitamins
10. 4 Survival Blankets
11. 2 Large Sponges
12. Signal Mirror & Whistle
13. Manual Horn
14. Magnetic Compass

1. SART
2. Spare Life Raft Knife
3. Spare Life Raft Pump
4. Life Raft Repair Clamps
5. 2-4 Thermal Protective Aids
6. 2 Food Rations

PERSONAL ITEMS

1. Duplicate Passports, Credit Cards & Cash
2. Personal Medications
3. Spare Prescription Eye
4. Spare Sun Glasses
5. Toilet Paper in Baggy
6. Waterless Cleansing Pads
7. Long Sleeve Shirts & Polypro. Underwear
8. Tooth Brushes & Paste
9. Vaseline/ Skin Care Sun Block
10. Box Zip Lock Bags
11. Notebook & Pencils
12. Watch Cap
13. Sun Hat

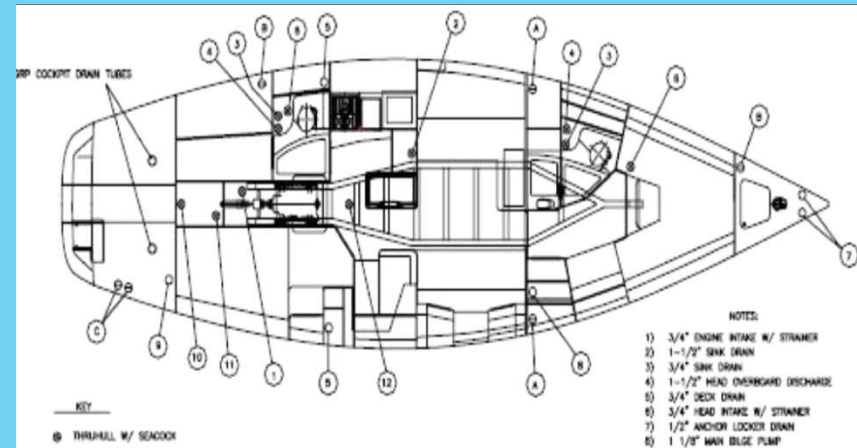
OPTIONAL GEAR

7. Life Raft Survival Book
8. Rescue Kite
9. Fishing Kit
10. Waterproof Matches
11. Spare Sea Anchor

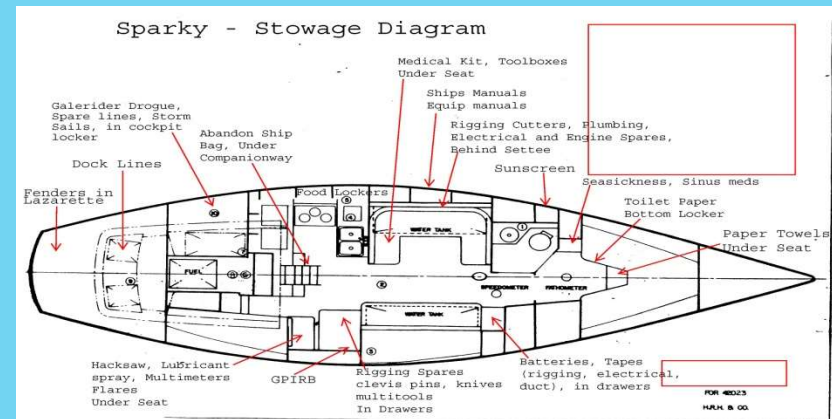
Preparing the Boat

Map of where things are:

- Fire extinguishers
- Thru-hulls
- Spare parts
- First Aid Kit (*Offshore*)



Finally, have boat inspected by approved Marion Bermuda Race Inspector.



Preparing the Crew

- **Open to all World Sailing Group Classifications**
Note: Approval needed for Group 3 crew
- **At least 3 crew unless “Double Handed”**
- **Safety-at-Sea Seminar** (March 2021 UMass Boston)
- **Proper gear**
- **Pre-race medical exams**
- **Physical stamina and personality for offshore**



Preparing the Crew

Suggested Gear

- Life vest w/harness and tether; re-arm cartridge
- Cold weather clothing
 - watch cap
 - gloves (waterproof)
 - boots & socks
- Warm weather clothing
- Cold/warm sleeping bags
- Sailing gloves
- Headlamp
- Sea sickness meds
- Sunscreen / lip balm
- Personal medications
- Valid passport
- Return crew letters

Preparing the Crew

Experience Required:

- Skipper and enough crew to manage boat must have offshore experience (250 nm)
- SAS within 5 years
 - 30% of crew must have World Sailing Offshore Certificate;
 - Skipper & Navigator mandatory
- Shorthanded – all 16+

First aid Strongly recommend
2 certified first aiders



Preparing the Crew

Training prior to the Race:

- Setting all sails
- Set storm sails
- Man overboard drill
- Abandon ship procedure
- Use emergency tiller
- Steer with rudder disabled

www.landfallnavigation.com/safety/storm-survival



Approximate Race Costs*

Equipment:

Life Raft (rental)	\$ 800
EPIRB (rental)	\$ 175
P/AIS	\$ 300
Sat Phone (rental)	\$ 200
SOLAS Flares	\$ 400
Charts	\$ 200
Med Kit Upgrade	\$ 200
Storm Jib	\$ 700
Misc. Equip	\$ 500
	\$ 3,475

Soft Costs:

Entry Fee	\$ 950
Crew Fee (4)	\$ 200
Insurance Rider	\$ 400
Survey for Rider	\$ 400
ORR Certificate	\$ 300
Weather & GS	\$ 500
Fuel	\$ 400
Food	\$ 600
Emerg. Supplies	\$ 200
Dockage	\$ 900
	\$4,850



*Based on a 40' boat

Bermuda Arrival

Clearing Customs only at RHADC

- Finish after sunset,
anchor in St. Georges
- Go to RHADC in
the morning



Bermuda Arrival

**Entry Package
provides key info:**

- **Berthing** (Sun, June 27)
- **Services at RHADC**
- **Re-provisioning
food and fuel**
- **Repair Services**



Bermuda Activities

- Family events for all ages
- Pre-finish events for waiting “shore-crew”
- Gosling Rum parties
- Nightly entertainment
- Golf, beach, shop,



Bermuda Activities

- Gala Awards Ceremony on Saturday



Where to Begin

Start a “To Do” list!



Where to Begin

Visit our website

www.marionbermuda.com

- Review “Yacht Eligibility and Requirements” in NOR
If uncertain about boat’s eligibility, submit inquiry to: *race@marionbermuda.com*
- Review the USSER & Inspector’s Check List
- Request a CoPilot through the website
- Request courtesy inspection
- Join us on Facebook *Friends of Marion Bermuda*

CoPilot Program

- Assist with race preparation
- Answers from experienced owners
- Informal, One-on-one
- Phone, email, in-person
- *CoPilot@marionbermuda.com*

Dates and Stuff to Remember

Fall 2020 / Early 2021

- **Life raft/sat phone rental**
- **Valid passports for race and return crews**

March 13-14 Safety at Sea Seminar – UMass Boston

April 16 Early registration ends

April 30 Sailing Instructions posted

Dates and Stuff to Remember

June 11

- Declare navigation class
- Spinnaker declaration
- Complete crew list submitted; after, all changes in writing
- Election to enter “races within race”
- Online registration closed
- Boat inspection complete
- ORR rating certificate from US Sailing

June 14 Communications device verification opens

June 14 Team Race application deadline

June 12-14 Early on site registration by appointment; see NOR

June 15 On site registration opens

June 17

- Boat acceptance - all changes made & inspected
- On site registration ends
- Skippers meeting - skipper & navigator mandatory

Other Stuff to Remember

- Insure valid inspection dates for:
 Life Raft MOM Flares
- EPIRB, AIS and PLBs registered to boat
- Insurance rider (and probably survey)
- Boat schematics - thru hulls and safety equipment

- Customs clearance App: CBP ROAM
- Ensure all crew members passport number in the App
- Letter of departure for each return crew arriving by air
- Medical history form for each crew
- Crew familiarity with boat
- Perform mandatory safety drills

- Refueling plan (Hamilton or St Georges)
- Departure plan from RHADC

Resources

During the Race:

- GPS tracking (Yellow Brick)
- Satellite phone (and SSB)
- Maritime Medical Access

Dept Emergency Medicine
George Washington Univ



Resources

www.marionbermuda.com

- Notice of Race
- Sailing Instructions
- Safety Equip Requirements
- Equipment Checklist
- Offshore Racing Rules
- Racing Rules of Sailing

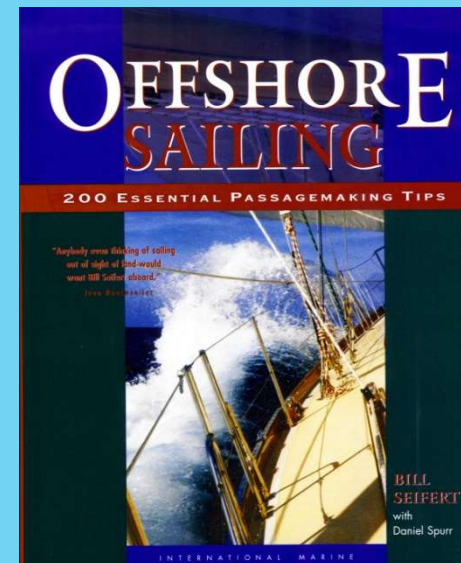
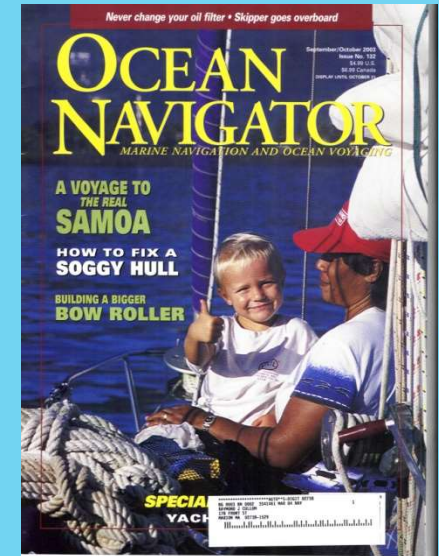
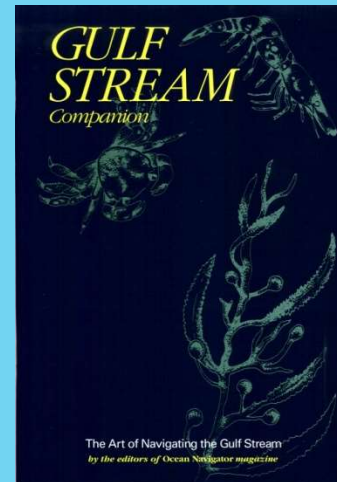
www.offshoreracingrule.org

- Rating certificate

Publications

- Gulf Stream Companion by Ocean Navigator
- Ocean Navigator
- Offshore Sailing by Bill Seifert

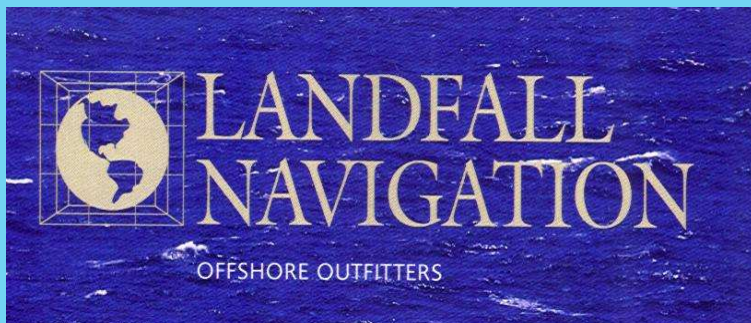
Facebook *Friends of Marion Bermuda*



Resources

Sponsors:

- Kingman Yacht Center
- R&W Rope Rigging Solutions
- Landfall Navigation
- Hinckley Yacht Services
- Team One Newport
- Life Raft Survival Equipment



Resources

Committee Contacts:

- Executive Director - Allan McLean
- Administration - Nan Johnson
- Registration - Al Minard
- CoPilot Program - Roy Greenwald
- Inspection - Ernie Messer
- Race Operations - Mary Pierce
- Safety at Sea - Ed Stott
- Marketing - Ray Cullum

race@marionbermuda.com



Thank You



See You in Bermuda!