

# Find everything you need to sail fast in 2007 at





Extensive Brokerage - Dealers for: Albin, East Bay, Grand Banks, Grand Soleil, HBI, J/Boats, Z34 846-4545 http://www.eastcoastyachtsales.com



# MAINE SAILING PARTNERS

The Way Sails Should Be 846-6400 www.mesailing.com

# LANDING BOAT SUPPLY

Complete Bosting Supply Store

Marine Hardware, Electronics, Clothing, Inflatables

846-3777

# YANKEE MARINA

Yacht Repair & Maintenance - Slip & Storage 60 ton Travelift - 846-4326 http://www.yankeemarina.com

## Marsh Insurance

Marine Specialists - 846-0400 peter, g.arndt@marsh.com

# Associated Marine Surveyors, Inc.

MarineSurveyors - 846-4900 www.amsurveyors.com

106 Lafayette Street - Route 88 Yarmouth, Maine

# Many hands make light work

Last year the theme of these remarks was "More is Better." The more of us that race in the Gulf of Maine, the better is the racing for the sailors and for the clubs who host the races. More of us sailed more races in 2006 than 2005. Your board of directors is working hard to encourage another increase in 2007.

We are hoping to recruit a fleet captain for each class in each of our three regions: Eastern, Central and Western. The job of the fleet captains is to encourage existing sailors and attract new ones. If you share our goal of promoting the growth of your class, and would be willing to help by spreading the word among your competitors, please give me a call or email. My phone and address are listed on the Officers and Directors list on page 6, and also on the GMORA website, www.gmora.org.

To better communicate and promote the races of our member clubs, we are working to reorganize and improve the website. Vice President, Randy Rice, is in charge of that committee, along with scoring. If you have suggestions, or would like to help, con-



Last year, GMORA volunteers ran or assisted the host committee at three regattas. This year, we plan to expand the service of offering trained race officers to assist our member clubs with race administration, when asked. Director and PHRF Handicapper Bud Hawley leads our Race Management Committee. He would like to hear from members and friends of GMORA willing to help with race administration.

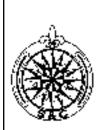
Last year, Director Gail Rice singlehandedly produced and distributed press releases and newsletters weekly during the season and monthly during the winter. Gail is also editing our excellent yearbook in 2007. She could use help with writing, photos and editing. Give Gail a buzz if you have the skills and inclination to help.

More is still better. In 2007, our goal is to involve more of our members in doing the job of GMORA: promoting ocean racing in the Gulf of Maine.

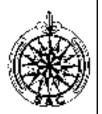
Cheers, Peter Garcia

tact Randy.

3



# SMITHWICK & MARINERS



# INSURANCE

The crew at Smithwick & Mariners wishes you all a successful and safe racing season.

We represent several marine insurers to offer you the most competitive and complete coverage available.

TELEPHONE QUOTES WELCOME



800-370-1883

On-Line Applications: www.smithwick-ins.com 366 U.S. Route 1, Falmouth, Maine 04105



Wavelengthstudios.com/Andrew Sims

## About this publication

Maine Yacht Racing is the official publication of the Gulf of Maine Ocean Racing Association and is published annually each spring.

Points East Publishing, Inc., under contract from GMORA, publishes Maine Yacht Racing using editorial content from GMORA contributors and Points East Magazine. Points East Publishing, Inc. also annually awards the Gulf of Maine Yachtsman of the Year trophy in consultation with GMORA. Points East Publishing, Inc. also publishes Points East Magazine – the magazine of coastal New England cruising – nine times a year.

Maine Yacht Racing is mailed free to all GMORA members and is also distributed through sail lofts and yacht clubs throughout New England. A total of 2,000 copies of this publication are printed and distributed beginning in April. If your favorite sail loft or yacht club has not received a supply of the publication, or has run out of copies, please contact the publisher at 1-888-778-5790. Individual copies, other than those mailed directly to GMORA members, can be purchased for \$5 per copy, which includes 1st class postage.

Editors: Gail Rice, Nim Marsh

Marketing director: Bernie Wideman

Ad sales reps: Lynn Whitney, Denise Saurman,

Martha Fowler, Susanne Carey

Ad design: Holly St. Onge and Univoice Graphics Layout & design: Custom Communications

**Photographs:** Wavelength Studios **Printed by:** Penmore Lithographers

Cover photo: Andrew Sims, Wavelength Studios

For information on advertising call Points East Publishing, Inc. at 1-888-778-5790. On the web at www.pointseast.com.

#### Index

President's page
Racing calendar6
Officers and directors6
Scoring, trophies & eligibility
Rinderle B explained
2006 Awards
Yachtsman of the Year
Race reports
Centerboard Regatta10
The Pilot Races
Harraseeket Regatta
PHRF Maine Championships 12
Mt. Desert Island Series
Boothbay Harbor Yacht Club Regatta 15
Hospice Regatta
Seguin Island Trophy Races 16
Camden-Castine Regatta17
Downeast Challenge
Down East Race Week
MS Regatta
Monhegan Island Races
Yarmouth Cup24
RYC West Bay Race
Kip Stone/Route de Rhum25
Friendship Chowder Cup Race 28
PHRF New Englands30
Handy Boat Regatta31
Why race your boat
Dirigo Bowl winner
GMORA membership application 34
PHRF-NE handicap application35
Frequently Asked Questions
Performance Handicap Racing Formula 37
Getting and keeping crew slots 40
Tips for new skippers 41
Gulf of Maine fleet







# 2007 GMORA RACING CALENDAR

EVENT	DATE	REGION	DAYS
Centerboard Regatta	June 9	W	1
Pilot Race	June 16-17	W	2
Harraseeket Regatta	June 23	W	1
PHRF Maine Championships	July 7-8	W, C, E	2
MDI Series	July 8, 15, & 22	E	3
Boothbay Harbor	July 14-15	W, C	2
Hospice Regatta	July 14	E	1
Seguin Is. Trophy Race	July 21-22	W, C	2
Handy Boat Midsummer Regatta	July 28	W	1
Camden-Castine Race	July 28-29	C	2
Downeast Challenge Race	August 4-5	W, C	2
Down East Race Week	August 5-10	E	5
Monhegan	August 11-12	W	2
MS Regatta	August 18	W	1
MDI Series	August 12	E	1
PHRF New Englands	August 24-26*	Overall only	3
Commodore's Cup	August 26	W,C	1
Yarmouth Cup	August 30	W	2
Portland Yacht Club Fall Series & Lightship Race	Sept. 15, 22 & 29**	W	3
GMORA Awards Banquet	TBA		

<sup>\*(</sup>Tentative – check http://www.thenewenglands.org/ for updates)
\*\*(Tentative – check www.portlandyachtclub.com for updates)

# **2007 GMORA Officers and Directors**

GMORA's official address: P.O. Box 66743, Falmouth, Maine 04105

iiic 04103		
207-784-3200	Director (At Large): Merle Hallett 215 Foreside Road, Falmouth, ME 04105 handybot@gwi.net	207-781-5110
207-865-3617	Director (At Large): Byron Borst PO Box 95, Boothbay, ME 04037 btborst@aol.com	207-633-3337
207-443-8701	<b>Director (Boothbay Harbor YC):</b> Bob Norton 34 Quarry Point Rd., Edgecomb ME 04556 bnorton@midcoast.com	207-882-9622
207-966-2107	Director (Camden YC): John Fitzgerald 170 Melvin Heights Road, Camden, ME 04843 jfitz@adelphia.net	207-236-3603
207-633-2774	<b>Director (Centerboard YC):</b> David Pierce 220 Canterbury Rd, Wells, ME 04090 dopierce@yahoo.com	207-646 9768
207-865-3617	<b>Director (Harraseeket YC):</b> Cliff George P.O. Box 305, South Freeport, ME 04078 cgeorge@munis.com	207-865-4098
207-529-5182	<b>Director (Portland Yacht Club):</b> Scott Gleeson 744 Roosevelt Trail, Ste 203, Windham, ME 04062 scott@nothatlanticins.com	207-893-2733
007.000.0050	Director (Southport YC): Ted Smith 144 Middle Road, Edgecomb, ME 04556 tedsmith@hodgdonyachts.com	207-882-7247
207-888-2256	<b>Director (Rockland YC):</b> Doug Pope 237 Park St., Rockland, ME 04841 doug@popesails.com	207-596-7293
	207-784-3200 207-865-3617 207-443-8701 207-966-2107 207-633-2774 207-865-3617 207-529-5182 207-688-2256	Director (At Large): Merle Hallett 215 Foreside Road, Falmouth, ME 04105 handybot@gwi.net  Director (At Large): Byron Borst P0 Box 95, Boothbay, ME 04037 btborst@aol.com  Director (Boothbay Harbor YC): Bob Norton 34 Quarry Point Rd., Edgecomb ME 04556 bnorton@midcoast.com  Director (Camden YC): John Fitzgerald 170 Melvin Heights Road, Camden, ME 04843 jfitz@adelphia.net  Director (Centerboard YC): David Pierce 220 Canterbury Rd, Wells, ME 04090 dopierce@yahoo.com  Director (Harraseeket YC): Cliff George P.O. Box 305, South Freeport, ME 04078 cgeorge@munis.com  Director (Portland Yacht Club): Scott Gleeson 744 Roosevelt Trail, Ste 203, Windham, ME 04062 scott@nothatlanticins.com  Director (Southport YC): Ted Smith 144 Middle Road, Edgecomb, ME 04556 tedsmith@hodgdonyachts.com  Director (Rockland YC): Doug Pope 237 Park St., Rockland, ME 04841

#### Scoring, Trophies, and Conditions of Eligibility

- 1. Series trophies will be awarded based on performance in not more than the maximum number of race days eligible to be counted for a series trophy. Only boats with valid 2007 PHRF-NE certificates, or with provisional certificates issued by GMORA to new fleet members, shall be considered eligible for scoring.
- 2. A race day is one day of racing, whether one or more races are conducted. A competitor must complete all races sailed on a day to make that race day eligible to be scored. Certain long distance races are scored as two race days. See Racing Schedule on page 6.
- 3. Race day performance of a yacht will be scored by GMORA using the **Rinderle B** scoring system, which weighs results by reference to the number of contestants in a particular class. So, for example, a 1st place in a class of 12 boats will yield a higher score than a 1st place in a class of five.
- 4. For its own scoring, GMORA will use the following PHRF class breaks:

Class A - up to 75

Class B - 76 to 102

Class C - 103 to 149

Class D - 150 and up

Cruising Class - Boats that do not use spinnakers shall score as one class.

5. Member clubs are encouraged to use the same breaks where feasible. For GMORA purposes, a yacht who races in a GMORA-sanctioned regatta in any racing class shall be scored for GMORA purposes in the racing class to which its rating is assigned, unless she races cruising class at a particular regatta, in which case she shall be scored for GMORA purposes in cruising class for that regatta.

For example, a yacht has a racing rating that places her in Racing B. If she signs up for a regatta, and the race committee places that boat in Racing A due to a small number of entries, she shall earn points for each boat beaten in Racing A at that regatta and those points shall be applied to her

GMORA score in GMORA Racing B.

6. Overall Gulf of Maine Championship (**Dirigo Bowl**): The winner shall be the yacht that (a) qualifies for the season championship by sailing the minimum required nine race days in any GMORA scored regattas, (b) accumulates the highest Rinderle B point total determined by scoring the yacht's best nine race days (which need not all be sailed in the same class; e.g., some in cruising and some in racing or doublehanded), and (c) sails at least two race days in an alternate geographic area. For example, if a vessel sailed nine race days in the Western Area, she would still have to compete in at least two race days in the Central or Eastern Area to qualify for the Dirigo Bowl.

**Gulf of Maine Class A, B, C, D, and Cruising Class Championships:** Best nine (9) race days count. Second and subsequent place trophies if participation in class is sufficient.

Western Area Class A, B, C, D, and Cruising Class Championships: Best eight (8) race days count. Second and subsequent place trophies if participation in class is sufficient.

Central Area Class A, B, C, D, and Cruising Class Championships: Best four (4) race days count. Second and subsequent place trophies if participation in class is sufficient.

**Eastern Area Class A, B, C, D, and Cruising Class Championships:** Best five (5) race days count. Second and subsequent place trophies if participation in class is sufficient.

**Multihull Circuit Championship:** Best five (5) race days count. Second and subsequent place trophies if participation in class is sufficient.

#### Rinderle B scoring system explained

												Rinder	le B T	able											
1	2	3	4	5	8	7		9	10	11	12	12	14	15	16	17	16	19	20	21	22	22.	24	25	place
79.1	61.3	53.6	85.8	57.B	89.6	91.2	92.6	891.0	95	26	96.9	97.6	98.2	98.7	99.2	99.5	99.8	100	100.1	100.9	100.4	100.4	100.5	100.5	1
	10.5	48	56.8	85	70.7	75	78.5	81.9	63.6	55.6	67.3	5B.7	89.9	P1	91.9	92.7	93.3	99.9	94.3	94.7	95.1	95.4	95.6	95.B	2
The		10.5	33.7	49.6	55.7	82.1	67.1	71.2	74.5	77.8	79.6	51.6	63.3	54.B	66.1	87.2	68.1	59	89.7	8.09	90.8	91.8	91.7	92.1	3
Rinde	rle B		10.5	28.7	40.6	49.2	55.8	51.1 50.0	65.3	58.9	71.9	74.5	78.7	78.6	80.3	81.7	63	84.1	65	85.9	66.6	87.9	67.9	5B.4	1
scorin	Q 6//6.	tom		10.5	25.6 10.5	36.3 23.4	44.5 33.2	50.0 40.8	56.2 47.1	50.6 52.2	64.3 56.6	57.4 50.9	70.1 63.5	72.4 86.2	74.5 68.6	76.2 70.7	77.8 72.6	79.1 74.2	60.4 75.7	81.4 77	82.4 78.2	58.2 79.2	64 60.1	84.7 81	1
	-				10.5	10.5	21.8	30.7	37.9	48.9	48.9	58.2	56.8	50	62.8	85.9	67.A	59.5	71	72.6	73.9	75.2	78.3	77.8	7
was d	evelo	ped to	o weig	ght		10.0	10.5	20.6	28.8	35.5	41.2	46.1	50.2	59.B	57	50.B	62.3	B4.4	66.4	BB.1	68.7	71.1	72.4	78.6	
perfor	manc	e as	a fund	ction (	of two	)		10.5	19.6	27.2	33.5	38.9	43.6	47.7	51.2	54.9	57.1	59.5	61.7	89.7	65.5	87.1	68.5	59.9	9
criteri	a fini	shing	nosit	ion ar	nd the	nıım	her		10.5	1B.B	25.9	31.B	37	41.5	45.4	4B.B	51.9	54.6	57.1	59.3	61.2	88	64.7	86.2	10
	criteria, finishing position and the number 10.5 18.8 25.8 31.8 37 41.5 45.4 48.8 51.9 54.6 of boats participating in a given race. This grid 10.5 18.2 24.7 30.4 35.8 39.6 48.4 46.7 48.7 of boats participating in a given race. This grid 15.5 17.6 29.7 29.1 28.8 37.8 41.6 44.6									49.7	52.4	54.B	57	50	60.8	52.4	11								
ot bos	ats pa	rticip	ating	ın a g	iven r	ace.	inis g	gria			10.5	17.6	23.7	29.1	33.8	37.B	41.6	44.B	47.8	50.4	52.8	55	56.9	58.7	12
assigr	ns a s	pecifi	c nun	nber b	pased	on, f	irst, a	part	icular			10.5	17.1	22.9	27.9	32.4	38.4	39.9	43.1	46	48.6	50.0	53.1	55	13
yacht'	s finis	shing	nositi	ion ar	nd se	cond	the r	numbe	er of h	noats	that		10.5	16.7	22.1	26.9	81. <b>2</b>	35	38.4	41.5	44.3	46.0	49.2	51.9	14
•		_												10.5	16.3	21.5	28	30.1	33.8	37.1	40.1	42.B	45.3	47.6	15
finish						_	-		_			_			10.5	16	20.9 15.7	25.2 20.8	28.1	32.7	35.9	38.B	41.5	43.9	16
positio	on, th	e higł	ner the	e nun	nber.	The n	nore b	oats	that a	a give	n yac	ht bea	ats, th	ne		19.5	10.5	15.4	24.5 19.8	28.2 28.8	31.6 27.4	34.7 30.7	37.6 33.7	40.2 36.5	17
higher	the r	numbe	er. The	e high	nest n	umbe	er is a	warde	ed to t	the fir	rst-pla	ace fir	nishin	g vach	nt tha	t	10.5	10.5	15.2	19.4	23.2	26.7	29.8	32.B	19
_				_													_		10.5	14.9	19	22.6	26	29.1	20
beats	the ia	arges	. num	ber o	Doac	S. C0	mmoi	sen	se su	pport	s trie	luea	mat a	iriyorie	e wno	beat	S			10.5	14.7	18.6	22.1	25.9	21
more	boats	in a	regatt	ta sho	ould g	et mo	re re	ward.	Seco	ndly, i	it doe	sn't r	nattei	r what	class	s a gi	ven b	oat			10.5	14.5	18.2	21.6	22
races	in. Gl	MORA	wills	score	seaso	on ch	ampic	nshir	s by t	the hi	ghest	t total	of Ri	nderle	e B po	oints a	achiev	ed by	/ indiv	rid-		10.5	14.4	17.9	28
											600	. cocai	J. 111		- p								10.5	14.2	24
ual ya	CHIS 1	rom t	neir n	iirie b	est ra	ice da	ays.																	19.5	25

Yearbook 2007 www.gmora.org 7



Photo by Gail Rice

Members of the Revolution II crew pose with their award at the annual GMORA banquet.

# **2006 GMORA Series Awards**

#### Class A

Revolution II

1st Overall, 1st Western, 2nd Central

2nd Overall, 3rd Central

Sheerness

3rd Overall, 3rd Eastern

Scaramouche

3rd Western

Bandito

1st Central

Far Out

1st Eastern

Weather Gauge

2nd Eastern

Class B

The Wagon

1st Western, 1st Central

Tern

1st Eastern

Sold

2nd Central

Eventyr

2nd Eastern

Xanthippe

3rd Eastern

Class C

Roach Coach

1st Overall, 3rd Western, 1st Central

Commotion

2nd Overall, 1st Western, 2nd Central,

Snow Bird

3rd Overall, 2nd Western, 3rd Central

Class D

**Five** 

1st Overall, 1st Western, 1st Central

Ranier

2nd Central

J105

1st Overall, 1st Central,

Keemah

2nd Overall, 1st Western, 3rd Central

Sidewinder

1st Eastern

Uproar

2nd Central

**Cruising Class** 

Nipantuck

1st Overall, 1st Western, 1st Central Dirigo Bowl Winner

2nd Overall, 2nd Western, 2nd Central

Artemis

3rd Overall, 3rd Western

Rita P

3rd Central

#### **Special Awards**

#### **Best Dressed Boat**

Belafonte

AWARDS, continued on Page 9

# Points East Yachtsman of the Year: Geoff Emanuel

If you're looking for someone who displays an infectious enthusiasm for boating in the Gulf of Maine, and who exemplifies the finest qualities of sportsmanship and seamanship, you need look no further than Geoff Emanuel.

Here's a guy who's been sailing the Gulf of Maine since he was a kid. Whether skippering his own boat or crewing on someone else's, Geoff has an uncanny knack for sharing his enthusiasm for the sport, along with his knowledge of everything from sail trim to local

currents to what's the best menu for a Monhegan race.

Geoff's a true gentleman both on and off the course. He encourages everyone – regardless of their experience or type of boat – to get out on the line. It doesn't matter whether you've got a go-fast



Bernie Wideman photo

Points East Editor Sandy Marsters presents Geoff Emanuel with the Points East Yachtsman of the Year award.

sport boat with all the whistles and bells or a decades-old heavy piece of classic plastic. Geoff goes out of his way to make everyone – from newbies to veterans – feel welcome from the moment they check in right through the end of the post-race party.

Speaking of parties, Geoff is even

good enough to have a birthday that coincides with the Boothbay Regatta – giving his crew the perfect venue to demonstrate the fondness they feel towards their captain. No matter how silly or humiliating the prank, Geoff takes it all with good humor, mixed with immeasurable gentility.

Geoff is also known as Mr. Monhegan. The guy's done more Monhegan Races than just about anyone, and he has inspired countless sailors to follow his lead. Geoff's been heard to say he's "passionately in love" with the Monhegan race. I always wondered what Lori thinks of that!

Sadly, Geoff is leaving Maine to pursue a career opportunity in Dallas, Texas. We will miss

Geoff, and wish him and his family well. We hope they come back and visit from time to time. The Monhegan and Boothbay Regattas – for that matter, the entire racing season – won't be the same without Geoff.

Gail Rice

#### AWARDS, continued from Page 8

#### **Best Named Boat**

Pain Killer

#### **Most Valuable Crew**

Revolution II

#### **Family Award**

Too Elusive

#### "Bud Hawley Award" for Best Run Regatta

Southport Yacht Club

#### Principal Race Officer (PRO) Award

Bud Hawley and Duncan Wood (Centerboard Regatta)

#### **Seamanship Award**

**Butch Minson** 

# **Jim Lowery Award for Sportsmanship**Ron Cole

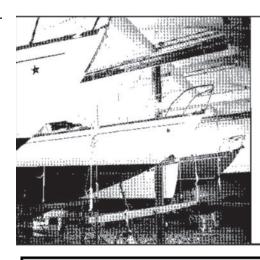
Ron Cole

#### Hospitality Award

Centerboard Yacht Club

#### **Most Improved Performance**

Roach Coach



Strouts Point Wharf Company offers you state of the art facilities; a convenient, safe location; dedicated, experienced craftsmen; consistent attention to detail; unsurpassed finish work; complete, accurate estimates; truly personal service; and a complete range of abilities for the construction or restoration of wood and fiberglass yachts.

Come see us for your next project.



Main Street • South Freeport, ME (207) 865-3899 / Fax (207) 865-4407

# CWC Boat Transport, Inc.

PAUL S. CUNNINGHAM

PO: Box 258, Round Pond, ME 04564 Tel: 207-529-5825 FAX: 207-529-5825

Complete air ride system - 25 years experience



Wavelengthstudios.com/Andrew Sims

# Reports from the Gulf of Maine circuit

#### **Centerboard Regatta**

Centerboard Yacht Club, S. Portland, Maine

2007 regatta: June 9 FMI: www.centerboard.org; David Pierce, 207-646-9768

Centerboard Yacht Club's annual regatta drew 30 boats in six classes for a day of racing in Casco Bay Saturday, June 10. The boats and their crews were treated to weather that was much less dire than what was forecast – the winds were on the light side, seas around three feet, and the dreaded deluge of rain turned out to be off-and-on showers. The turnout was great for the first race of the season. There were four PHRF racing classes, a cruising class, and an Etchells one-design class, making for some close competition. CYC

capped it off with a great spread of food and live entertainment at the club afterwards. For the second straight year,

2006 Centerboard Regatta Results				Jan	Lou Prefenno
Class	A			_	
1	Kaos	Scott Smithwick	Class	_	DD.
2	Big Dog Party	Peter Price	1	Akela	David Peirce
3	Revolution	Ed Rogers	2	Honalee	Dick Stevens
4	Wiley	Bruce Cumback	3	(DNF) Five	Tom Hall
5	Bandito	Ed Hale	0!-	ing Olace	
6	Beausoleil	Richard Parent		ing Class	Devide Messell
7	Revo Ocho	Doyle & Jim Marchant	1	Ajax	David Merrill
		(DNF)	2	Swimmer	Rick Barry
8	Tamarack	Bob Kellogg (DNS)	3	CCure	Harry Hepburn
			4	S-Cape	Paul Morin
Class	В		5	Cats Paw	Butch Minson
1	Keemah	Don Logan	6	Nipantuck	Peter Cole (DSQ)
2	Straw Hat	Andrew Sawyer			
			Etche		
Class	C		1	Schadenfraude	Andrew Carey
1	Roach Coach	Richard Stevenson Jr	2	Hooked on Tonics	Meg Fenderson/Sherry
2	Commotion	Geoffrey Emanuel	_		Fowler
3	Go Dog Go	David Ruff	3	Boogie TYP	Nicole Jacques
4	Rip Curl	Tyler Thims	4	Medusa	Seth Sprague
5	Snowbird	Jon Randall	5	VooDoo	Ralph Carpenter

Scott Smithwick's *Kaos* edged out her competitors in Class A. Other winners included Don Logan's *Keemah* in Class B, Richard Stevenson Jr.'s *Roach Coach* in Class C, David

Pierce's Akela in Class D, David Merrill's Ajax in Cruising Class, and Andrew Carey's Schadenfraude in the Ethchells one-design class.

#### **The Pilot Races**

Falmouth, Maine 2007 races: June 16-17

#### FMI: www.portlandyachtvclub.com

It was a picture-perfect weekend for 40 sail-boats racing in six classes around Casco Bay June 17 and 18 as the Portland Yacht Club hosted the annual Pilot Races. Competitors were divided into three PHRF racing classes, one cruising class, and two one-design classes for two great days of racing under sunny skies off Falmouth Foreside.

Brisk winds on Saturday allowed the Etchells and J/24 one-design classes to get in lots of races while the PHRF and Cruising classes raced long courses. On Sunday, the winds were considerably lighter and more variable, giving skippers and crews some additional tactical challenges. A strong incoming tide on both days also made things interesting.

Congratulations to the following winners: Class A – *Revolution II*, Ed Rogers; Class B – *Sold*, Jon Knowles; Class C – *Five*, Tom Hall; Cruising – *Cat's Paw*, Butch Minson (who sailed singlehanded); Etchells – *Schadenfreude*, Scott Gleason; J/24 – *AL*, Mark Klein.

# **2006 Pilot Races Results**Class A

1 Revolution II Ed Rogers 2 Bandito Dick Hale 3 Big Dog Party Peter Price 4 Kaos Scott Smithwick 5 Scaramouche Merle Hallett 6 Wilev Bruce Cumback 7 Pain Killer Rick Simonds 8 Whiplash Ted Smith 9 Tamarack Bob Kellogg

#### Class B

Reausoleil

11 Revo Ocho

10

1

2

3

Sold Ion Knowles Commotion Geoff Emmanuel Go Dog Go David Ruff The Wagon Richard Hallett Snowbird Jon Randall Rip Curl Tyler Thims Roach Coach Richard Stevenson C-C-Courage Greggus Yahr

 Class C
 1
 Five
 Tom Hall

 2
 Akela
 David Pierce

3 Commocean

Cruising Class
1 Cat's Paw

2 Rita P 3 Artemis

4 Nipantuck5 Ajax6 Windsong

7 Assunta

#### Etchells

Schadenfreude
 Glass Slipper
 Medusa

4 VooDoo 5 Boogie T.Y.P.

#### J/24

Al
 Mr Hankey
 Second Chance

4 Flying Circus 5 Bad Apple 6 Pit Party Andrew Carey Jeffery Smith Howard Koon Bruce Morse Richard Ketchum

Mark Klein

Mark Waite

**Butch Minson** 

Randy Rice

Mark Werner

David Merrill

Justin Andrus

Scott Gleason

Seth Sprague

Ralph Carpenter

Nicole Jacques

Dave White

Ron Cole

Charlie

Micoleau

#### **Harraseeket Regatta**

South Freeport, Maine 2007 regatta: June 23

Richard Parent

Jim Marchant

FIM: www.hyc.cc; info@hyc.cc

Forecasts for cloudy skies and heavy rain didn't keep more than two dozen sailboats and their crews from racing around Casco Bay at the Harraseeket Regatta on Saturday, June 24.



Imagine clear sailing — without glasses or contact lenses. Explore LASIK laser vision correction with new CustomCornea® precision, available now from Eyecare Medical Group, Maine's most experienced LASIK specialists.

Call today for your FREE EVALUATION: 207.828.2020 or toll-free 888.374.2020



53 Sewall Street • Portland, Maine 04102
Bruce R. Cassidy, MD • William S. Holt, MD • Elizabeth G. Serrage, MD
www.eyecaremed.com • www.seewithlasik.com

\*\$0 down and 0% interest for 12 months. May not be combined with any other offers or discounts. Limited time offer.

CustomCornea $^{\otimes}$  is a registered trademark of Alcon Laboratories, Inc.

The race followed a pursuit format, which features a staggered start based on each boat's handicap. This made for close finishes in all three classes. The southeasterly breeze picked up just in time for the noon start for this year's rabbit, *Ajax*. It would be nearly an hour before the fastest-rated boat, *Bandito*, crossed the line.

After crossing the starting line off the northeastern tip of Moshier's Island off South Freeport, racing yachts beat out Broad Sound to the WS gong off the southwestern tip of Whaleboat Island. Racers turned northeast, sailed along the eastern shore of Whaleboat, then circumnavigated Upper and Lower Goose Islands, finally sailing on a close reach to the

2006 Harraseeket Regatta Results Class A Roach Coach Richard Whiplash Ted Smith Stevenson 1 2 Big Dog Party Pete Price 5 Rip Curl Tyler Thims 3 Kaos Scott Smithwick 6 Milady Kris Jennings 4 Bandito Dick Hale Seek John Pier 5 Scaramouche Merle Hallett 8 Wishing Star Doug Martin 6 Wiley Bruce Cumback 9 Persistance Bill Full 7 Revolution II Ed Rogers Honalee Dick Stevens 8 Pain Killer Rick Simonds 9 Beausoleil Richard Parent **Cruising Class** 10 Beagle Nipantuck Peter Cole Nat Henshaw 1 2 Aiax Dave Merrill Class B Rita P Randy Rice 3 Ben Niles 1 Five Tom Hall 5 Allure 2 Snowbird Jon Randall Assunta Justin Andrus 3 Gus MacDonald Panacea

championships, hosted by Portland Yacht Club July 8 and 9. Other than the wind being just a little slow filling in on Saturday, you'd have been hard pressed to find a better weekend for racing in the Gulf of Maine.

Sailors raced on two courses – an inshore course off Falmouth Foreside and an offshore course outside Hussey Sound – under sunny skies and through steady breezes in one of the best-attended regattas in the Gulf of Maine series. Even better than the weather was the racing, with some incredibly close finishes on corrected time.

In Class A, Dick Hale's *Bandito* edged out Peter Price's *Big Dog Party* by a single second to win Race 3. Class B had just

as close a finish when Geoff Emanuel's *Commotion* corrected a second ahead of David Ruff's *Go Dog Go* to take a 2nd place in Race 3. Some other finishes in several classes were just a few seconds apart, making for some great competition.

Dick Hale took top honors in PHRF Class A with his Tripp 47 *Bandito*. Geoff Emmanuel's *Commotion* won PHRF Class B; Chris Eisenhart's *Downtown* took Class C; and Mark Werner in *Nipantuck* emerged at the top of the Cruising Class.

In the one-design classes, *Ghost*, skippered by Ken Colburn, won the six-boat J/105 class. Howard Coon's *Flying Circus* emerged tops in the J/24 fleet. Andrew Haile's *Schadenfreude* won the Etchells division.

finish line. Winds were light, mainly out of the southeast, and while skies were overcast, the heavy rains forecast for the day did not materialize and crews enjoyed a great day of racing.

Whiplash, a J/35 sailed by skipper Ted Smith and his youthful crew, beat out nine other competitors to take top honors in Class A. Other winners included Tom Hall's *Five* in Class B, and *Nipantuck*, skippered by Peter Cole, in Cruising Class.

#### **PHRF Maine State Championships**

2007 regatta: July 7-8

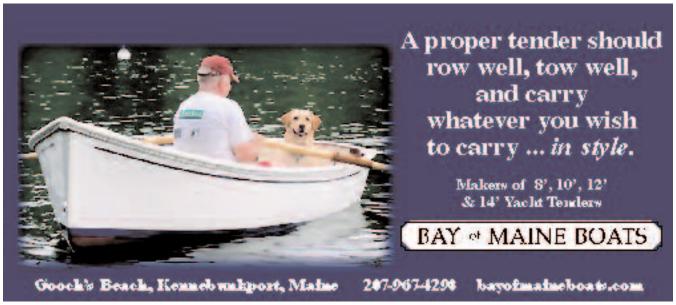
FMI: www.portlandyachtclub.com

Perfect sailing weather greeted nearly 50 yachts that came to Falmouth to compete in the Maine PHRF and one-design

#### Mt. Desert Island (MDI) Series

2007 regattas: July 8, 15, 22 and Aug. 12 FMI: www.nehfleet.org

**The MDI opener – July 9:** Sunday saw the Biggest MDI racing fleet of the Century with 11 Cruising/Racing boats on the starting line. That's up from seven participants a year ago. Kaighn Smith in *Gaylark*, fresh from Bermuda, was the winner. Runner-up by only two seconds was *Tern*. There was a bit of dêja vu at play in playing the tricky sailing conditions of the Great Harbor: *Gaylark* beat *Tern* by 1:12 in the same opening race a year ago. Places 1 through 4 were separated by only 25 seconds. Mike Cook's beautiful Center Harbor 31 *Flirt* was 3rd, just 17 seconds behind *Tern*, with *Reiver* in 4th.



Stocky Smith's Farr 44 Weather Gauge was first to finish in 3:02:21 in spite of fishing for lobsters for about 10 minutes after looking really fast on the first leg, then dragging for herring on the spinnaker takedown near Marsh Head on Islesford. Far Out had the race won handily at Long Ledge, but went left and parked along the Manset shore on the run to the finish.

The wind line had stayed pretty much between South Bunker Ledge and the Long Ledge Gong, so it paid off to hold on a longer starboard jibe until the Western Way entrance buoys could be fetched on a fairly hot angle. Seems like the skipper which makes the least mistakes, wins.

Navigation in these races around islands can be a challenge as *Va Pensiero* unfortunately discovered. The 49-footer grounded along the southern shore of Sutton Island, requiring power to get off the bricks. The Race Committee, by VHF, granted her permission to continue racing, so damage was slight.

Winds were South at 7-12 knots, though building late with some gusts reported over 20 knots. The race started at "A" mark in Great Harbor, went out the Western Way, the scenic route around the Cranberries, returning to "A" then a long Windward-Leeward to Long Ledge Gong and return.

**MDI Race 2 – July 16**: Sunday was another interesting day of sailboat racing. The Race Committee set up the starting line at the mouth of Somes Sound to avoid the dense fog at the usual start location between Spurling Point,

#### 2006 PHRF Maine State Championships Results

Cla	ss A		6	CCure	Harry Hepburn
1	Bandito	Dick Hale	_		, , , , , , , , , , , , , , , , , , , ,
2	Big Dog Party	Peter Price	Cru	ising Class	
3	Revolution II	Ed Rogers	1	Nipantuck	Peter Cole
4	Kaos	Scott Smithwick	2	Artemis	Ron Cole
5	Painkiller	Rick Simonds	3	Ajax	Dave Merrill
6	Scaramouche	Merle Hallett	4	Rita P	Randy Rice
7	Sheerness	Maine Maritime	5	Mach II	Tyler Putnam
		Academy	6	C-C-Courage	Greggas Yahr
8	Tamarack	Bob Kellogg	7	Windsong	Charlie Micoleau
9	Whiplash	Ted Smith			
10	Wiley	Bruce Cumback	J/1	.05	
11	Revo Ocho	Jim Marchant	1	Ghost	Ken Colburn
12	Beausoleil	Richard Parent	2	Uproar	Brian Harrington
			3	Black Owl	Ned Semonite
Cla	ss B		4	Jabberwocky	Mike Williamson
1	Commotion	Geoff Emanuel	5	Straw Hat	Andrew Sawyer
2	The Wagon	Richard Hallett	6	Keemah	Don Logan
3	CharSar	Scott Fox			
4	Snowbird	Jon Randall	J/2	4	
5	Go Dog Go	David Ruff	1	Flying Circus	Howard Coon
6	Sold	Jon Knowles	2	Denali	Anthony Jessen
7	Roach Coach	Richard Stevenson	3	Bad Apple	Bruce Morse
8	Jan	Lou Profenno	4	Second Chance	Jeffery Smith
9	Rip Curl	Tyler Thims	5	AL	Mark Klein
Cla	ss C		Etc	hells	
1	Downtown	Chris Eisenhart	1	Schadenfreude	Andrew Haile
2	Five	Tom Hall	2	Boogie T.Y.P.	Nichole Jacques
3	Honalee	Dick Stevens	3	Medusa	Seth Sprague
4	Akela	Dave Pierce	4	VooDoo	Ralph Carpenter

Great Cranberry and Greenings Island.

Mark Waite

The race went upwind to the Spurling Point Gong, downwind into Somes Sound to Fleet Mark "Y," then out around Greenings to Spurling Point Gong and back to the finish at



#### Massachusetts to Maine, We've Got You Covered

Commocean



Contest us for new sells, repells, sell weeking, serves work, and sell storage!

#### Doyle Center Herbor

Ringflich das Gabert 26 Kasch Kend Erestflich Ritt 646 16 Tab 267-75 62667 Erun II. cauferberher Ofeylassilaces Värkt ungen derdassilaces

#### Doyle Marbieheac

Robbie Doyle, Chair Hower & Paul Adam 70 Frant Street Einsbiebend, EIA, 010/B Tab 771-1700-1400 Einstein unsbieben 40/loyleralle, com

BETTER ENGINEERED BAILE

200	<i><b>06 MDI Series results</b></i>						
Ran	k Boat	Helm	R1	R2	R3	R4	Nett
1	Gaylark	Dr. Kaighn Smith	1.0	3.0	1.0		5.0
2	Tern	Bob Johnstone	2.0	2.0	3.0		7.0
3	Flirt	Michael Cook	3.0	1.0	4.0		8.0
4	Reiver	Henry Brauer	4.0	4.0	2.0		10.0
		& Steve Madeira					
5	Far Out	Hal Kroeger	7.0	5.0	6.0		18.0
6	Eventyr	Gordon Haaland	6.0	6.0	7.0		19.0
7	Sidewinder	Tom Rolfes	5.0	8.0	8.0		21.0
8	Weather Gauge	Stockton Smith	8.0	9.0	5.0		22.0
9	Flying Clipper	Peter Heldman	9.0	RDGa		9.0	27.0
10	Grey Eagle	Bill Wilkinson	10.0	10.0	DNF		30.0
11	Hopscotch	Jeff Dunn	DNC	7.0	DNC		33.0
12	Va Pensiero	Joe Weber	11.0	DNF	DNF		33.0

the Somes Sound entrance bell. The many fog banks, some strange tidal currents and constant wind shifts made the race challenging for all.

As the slowest rated boat in the fleet of 12 boats, *Flirt* finished close enough under its handicap to save its time by 61 seconds on *Tern* and *Gaylark* after a two-hour race. *Far Out* got the gun for crossing the line first, two seconds ahead of *Tern*.

**MDI Race 3 – July 23**: There was some doubt there'd be any racing. The forecast the day before was for 20-25 knots, with gusts over 30 and widespread fog, thunder and lightning. The Bar Harbor weather station even reported snow at 5:55 Sunday morning. Not what you'd call ideal sailing weather. This is meant to be fun after all, not an Outward

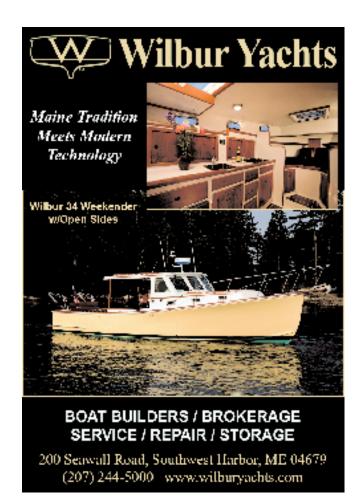
Bound survival course.

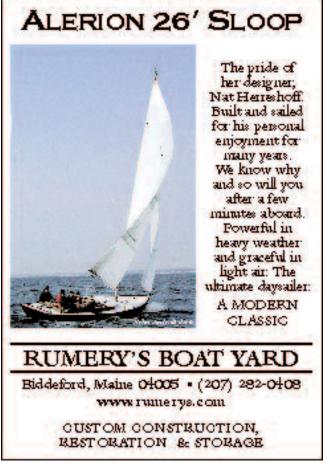
All contestants were put on alert the day before that the race may be postponed and that a decision would be made by 10:00 Sunday morning. Sunday morning didn't start too well with the Bar Harbor snow report. But the low-pressure system went through faster than anticipated, the radar showed that rain would clear out before noon and that winds would be 6-7 knots out of the north. Ouite a change, and it turned out to be a nice day with light winds

from the north.

And quite a turn of events among the 11 racers who made it to the starting line off Spurling Point on Great Cranberry. It wasn't even close! Dr. Kaighn Smith in the venerable gray *Gaylark* bee-lined it for the Northeast Harbor shore, didn't make any mistakes, and got the gun across the finish line as the first to finish in the fleet – even though he is one of the slower-rated boats. The course was to the Somes Sound entrance buoy, back to the start, then up around Greenings Island to the finish.

**MDI Race** 4 – Aug. 20: It was started but cancelled for lack of wind, so the final score for the series was computed on the basis of three races.





#### 2006 Boothbay Regatta Results Class A 1 Sheerness Maine Maritime Academy 2 Scarmouche Merle Hallett 3 Whiplash Ted Smith 4 Wiley Bruce Cumback 5 Bandito Dick Hale 6 Scott Smithwick Kaos 7 Tamarack Bob Kellogg 8 Revolution II Ed Rogers 9 Big Dog Party Pete Price 10 Spanking Machine Rich Ketchum 11 Beausoleil Richard Parent Class B/C Commotion Geoff Emmanual 1 2 Roach Coach Richard Stevenson 3 Fiesta Rick Ledwith Sold Ion Knowles 4

Τ.	Neciliali	Don Logan
2	Uproar	Brian Harrington
3	Witch	Ginny Colburn
4	Ghost	Ken Colburn
5	Ginger Ale II	William Lane
Cru	ising Class	
1	Zealot	John Merrill
2	Nipantuck	Mark Werner
3	Recharge	George Warren
1	Aiax	Dave Merrill

J/105

Cru	Cruising Class										
1	Zealot	John Merrill									
2	Nipantuck	Mark Werner									
3	Recharge	George Warren									
4	Ajax	Dave Merrill									
5	Artemis	Ron Cole									
6	Rita P	Randy Rice									
7	Solution	Andrew Marvin									
8	Too Elusive	Kitt Watson									
9	Snapdragon	Peter Lloyd									

_	ινιραπιασκ	Wark Weiller				
3	Recharge	George Warren				
4	Ajax	Dave Merrill				
5	Artemis	Ron Cole				
6	Rita P	Randy Rice				
7	Solution	Andrew Marvin				
8	Too Elusive	Kitt Watson				
9	Snapdragon	Peter Lloyd				
10	Istia	Kent Phelan				
Posthbay Harbar One Design						

Tom Norsworthy

Pat Berger

Debbie Swan

	6	Sidewinder
	7	Morning Star
	ION	n-Spinnaker
	1	Precious Cloud
	2	Eventyr
	3	Free Spirit
	4	Ardea
	5	Estrellita
Me	erle F	lallett's <i>Scaramouche</i> and Ted

2006 Maine Hospice Regatta Results

1

2

3

Flirt

Tern

Far Out

Gaylark

Hopscotch

#### Mango Cathy Latta 8 Doug Louison Gloria Faster Richard Paine

Rob Hawley

Jon Randall

Tom Hall

1

Blauer Engel

Wildfire

Fraulein

**Boothbay Harbor Yacht Club Regatta** 2007 race: July 14-15 FMI: www.bhyc.net

5

6

7

Rainier

Snowbird

Five

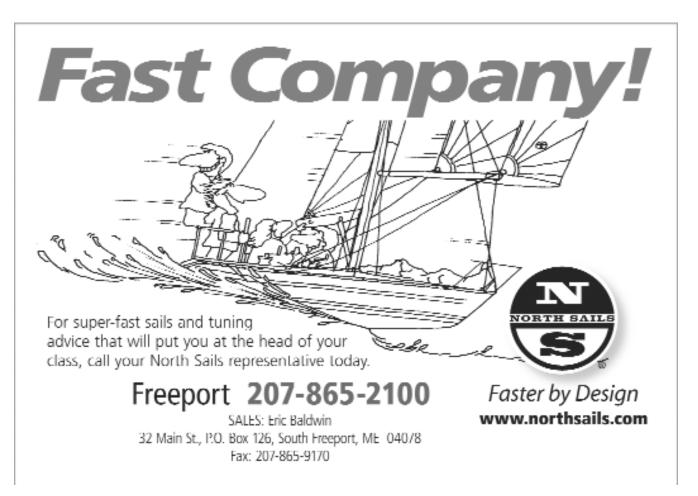
The temperatures were hot and the competition even hotter in Racing Class A at the Boothbay Regatta Saturday and Sunday, July 15 and 16. Skippers' and crews' talents and patience were put to the test in hot sun, light winds and strong tidal currents both days. A brief period of dense fog at the start on Sunday made things interesting as well.

Maine Maritime Academy's Taylor 41 Sheerness edged out

Smith's Whiplash to take 1st place in Class A, with Bruce Cumback's Wiley a very close 4th. Class A saw some of the most intense competition among five classes of boats competing in the two-day event.

Other class winners included Geoffrey Emanuel's Commotion in Class B, Don Logan's Keemah in the J/105 class, and Tom Norsworthy's Blauer Engel in the Boothbay Harbor One-Design class.

John Merrill's Alerion Express 38 Zealot edged out Mark Werner's Nipantuck in the Cruising Class. Those boats not battling for the lead in that class enjoyed a bit of comic relief when a certain "elusive" competitor set off cannon shots at some of her opponents. Fortunately, she was just blowing smoke - no projectiles were involved.



#### **Maine Hospice Regatta**

2007 race: July 14

Flirt won the day with Tern and Far Out following. Zack Stewart's Owens 41 Cutter Precious Cloud won non-spinnaker honors.

#### **Seguin Island Trophy Races**

2007 races: July 21-22 FMI: www.southportyc.org

#### Southport Yacht Club, Boothbay Region Boatyard

The Seguin Island Trophy Races (SITR) are sponsored by the Southport Yacht Club and the Boothbay Region Boatyard (BRB). They were held last July 22-23 on the Sheepscot Bay and river under less than ideal conditions for racing. Forecasts for stormy weather on Saturday prompted more than one yacht to give up any notion of a Friday delivery to Southport.

Yet Tyler Thims in *Rip Curl* braved conditions on Saturday morning to make his delivery just in time for Race 1. The racing that day was held, for the most part, under dark and rainy skies, and Race 2 was completed in a series of rain squalls that drenched the fleet and the race committee.

Shoreside festivities that evening were held under cover in the *Liberty* building at BRB. The steel-drum band "Tinpanic," abundant libations, and another outstanding barbecue kept everyone from thinking about the weather any longer.

On Sunday, the rain was gone but so was the wind, forcing the race committee to make the difficult choice to abandon racing for the second time in two years. It

was not a happy moment, but we're hoping for better racing conditions in 2007.

SYC and BRB thank Win Fowler of Maine Sailing Partners for his outstanding service to SITR and the incredible patience he displayed as principal race officer. At the fall GMORA awards Banquet, the SYC and BRB were presented with the GMORA "Best Run Regatta" award.

In the highly competitive and spirited PHRF Class A fleet, Dick Hale in his new Tripp 46 *Bandito* was overall winner with 1st and 4th place finishes. Merle Hallett was 2nd overall in Class A in his N/M 40 *Scaramouche* with two 3rd-place finishes. The Maine Maritime Academy was 3rd in the Taylor 41 *Sheerness*.

In PHRF Class B, Richard Hallett in his recently modified Evelyn 32 *Off The Wagon* was 1st overall with 1st and 2nd place finishes. John Peer's *Seek* was 2nd with 2nd and 3rd place finishes. Jon Randall in the NY 36 *Snow Bird* was 3rd overall.

In the very competitive J/105 fleet, local Southport sailor Ken Colburn in *Ghost* won both races and was the overall J/105 class winner. Ken also was awarded the Pete Welles Memorial Trophy for the lowest cumulative Rinderle B score in the regatta. Don Logan in *Keemah* was 2nd overall with 2nd and 3rd place finishes. Third place went to Andy Sawyer in *Straw Hat*.

The friendly rivalry between Ken Colburn and Don Logan helped *Ghost* and *Keemah* take 1st and 2nd, respectively, later in the season at the PHRF-NE Championships at Marblehead, Mass. Congratulations Ken and Don from SYC

200	6 Seguin Island	d Trophy Races Res	ults							
Rac	ing Class A		Cruisir	Cruising Class						
1	Bandito	Dick Hale	1	Nipantuck	Mark Werner					
2	Scaramouche	Merle Hallett	2	Recharge	George Warren					
3	Sheerness	Scott Loweth	3	Rita P	Randy Rice					
4	Pain Killer	Rick Simmons	4	Solution	Andrew Marvin					
5	Spanking Machine	Rich Ketchum	5	Ajax	Dave Merrill					
6	Revolution 2	Ed Rogers	6	Assunta	Justin Andrus					
7	Big Dog Party	Peter Price	7	Stinger	Bill Messmer					
8	Wiley	Bruce Cumbach	8	Blue Blazer	Tom Ogg					
9	Whiplash	Ted Smith	9	Muskrat	Jon Smith					
10	Beausoliel	Richard Parent								
			J/1	.05						
Rac	ing Class B		1	Ghost	Ken Colburn					
1	The Wagon	Richard Hallett	2	Kemah	Don Logan					
2	Seek	John Peer	3	Straw Hat	Andy Sawyer					
3	Snowbird	Jon Randall	4	Witch	Thad Hutcheson/					
4	Rainier	Rob Hawley			Bill Hunt					
5	Rip Curl	Tyler Thims								

and BRB.

Peter Cole and Mark Werner won the nine-boat Cruising Class in the Center Harbor 31, *Nipantuck*. *Nipantuck* went on to win the GMORA season Dirigo Bowl. George Warren in the San Juan 24 *Recharge* was 2nd, and Randy Rice was 3rd in the Pearson 30 *Rita P*.

The Notice of Race for the 2007 SITR will be available online at www.gmora.org and www.southportyc.org after June 1. Racing will include two short 6- to 8-mile windward/lee-ward PHRF/One Design class races on July 21 and one or two "blue-water" around-the-buoys races for PHRF and One Design classes on the 22nd. A pursuit race is being planned for novice racers on Saturday. Award winning dockside festivities will be held at the Boothbay Region Boatyard





NAVIEC Service Center, Swaging, Custom Splicing

P.O.Box 364
Southport, Maine 04576
207-633-6788
email: maloney@gwi.net

#### **Camden-Castine** Regatta

2007 regatta: July 28-29 FMI: cyc@midcoast.com, 207-236-7034

Saturday was a great day for racing! A windward start near the No. 2 bell outside Camden, for the 34th running of the Camden/Castine Race, was well executed by all classes. A beat down to Rockport, a starboard rounding of the No. 3 can, then up the west side of Penobscot Bay, and around Islesboro to Castine. This is the only point-topoint race on the GMORA circuit, and it has always been a favorite, as exemplified by the more than 27 boats that registered for the race.

After an overnight in Castine - a good time had by all – the boats were sent down the east bay and eventually into some light airs just north of Robinson Rock. The breeze freshened as the fleet then sailed across the bay and finished just outside Camden harbor. Everybody made it in time for the Beans and Franks Cookout and awards ceremony at the Camden Yacht Club.

It should be noted that the multihulls raced the same course as the monohulls and enjoyed the competition. Also worth mentioning is that Eudemonia was in the middle of a cruise up from the Chesapeake Bay and decided to join in on Saturday. She won her class with two bicycles on deck. Camden Yacht Club (celebrating its 100<sup>th</sup> anniversary) sponsored the race with help from Castine, and a word of thanks goes out to all who made the event a success.

#### **Downeast Challenge**

2007 race: Aug. 4-5 FMI: www.rocklandvc.org

Sponsored by Rockland Yacht Club in association with the Marblehead Yacht Club in Marblehead, Mass., this event is intended to encourage competition and camaraderie in the tradition of shorthanded sailing and passagemaking. It's also a great way for southern New Englanders to get their boats Downeast for the best part of the season.

The 130-nautical-mile offshore race will have racing and cruising divisions, along with singlehanded, doublehanded and fully crewed categories. It's a qualifier for the Bermuda One-Two Yacht Race. First gun will be at 1000 hours Saturday, Aug. 4, outside of Marblehead Harbor. The finish will be between Can #1 and the Rockland Harbor Breakwater lighthouse.

#### 2006 Camden Castine Regatta

#### Class A

1

2

3

5

Scott Smithwick Kaos Pete Price Big Dog Party Whiplash Ted Smith

Revolution 2 Ed Rogers Sheerness Maine Maritime

6 Randito Dick Hail Richard Parent Beausoleil 8 Robert Johnston Sans-Culottes

#### Class B

2

3

4

5

6

Roach Coach Richard Stevenson Jr. Commotion Geoff Fmanuel Sidewinder Tom Rolfes Sea Jab Al Hodsdon Fiesta! Rick Ledwith Jr. John Fitzgerald Moondance

Reservacions please

1-800-359-RELAX

435 Herrick Rd., Brookwille, Maine

#### Multihulls

Flying Circus Guy Polyblank 1 2 Flying Fish Charlie Pingree Richard Saltonstall Faamu Sami John Priestly Cloud IX 5 Peter Howard Wings Irish Lady James Love Bruce Olsen Quickstep

#### **Cruising Class**

Eudemonia Andrew Davis Anjacaa David Watson Too Elusive Kitt Watson Robert Berube 4 Synergy Robert Grant Tempest



#### SPECIALIZING IN Private Weddings AND GROUP EVENTS.

"One of az BEST SPOTS TO DINB on the coast of New England," Yankee Magazine.

Boston Magazine's Elegant Worlding. Spring/Summer 2004; This is just the spot for a private, informally. alegaet alfair..."

On the Mainland Side of Eggemoggin Reach at Herricks!



# SEAL COVE BOATYARD, INC.

STORAGE • MAINTENANCE • RESTORATION

If it has to do with the care of boats., we do it here and we do it better than most.

Box 99 Horseshoe Cove Road, Harborside, Maine 04642 207-326-4422/fax: 326-4411 e-mail: sealcove@acadia.net

#### SMITHBARNEY citigroup

Anthony R. Jessen

First Vice President Investments

100 Middle St., 3rd Floor Portland, ME 04101 Tel 207 771 0823

Tel 800 442 6722 Pax 207 771 0870 mitionismiscomi@ornithinmieszcom www.icomitihamoszcom/jecom

CitiGroup Global Markete Inc.

#### **Down East Race Week (DERW)**

2007 regatta: Aug. 5-10

#### FMI: www.downeastraceweek.com

Jeff Becton's classic, light-blue, 40-year-old Ohlson 41 *Ariana* from the Kollegewidgwok Y.C. in Blue Hill won the "Max" Warburg Memorial Trophy for the best overall score in Down East Race Week Aug. 6-11 among all boats over five races. She also winning the Arthur F. Chace Bar Graph as top boat in Division 3 and the Constance B. Madeira Trophy for the first day's run of the August Cruise.

Winner of the Harry Wilmerding Tray for 2nd overall, the Morris Trophy for top boat in Division 2, and the Arundel Plate for the August Cruise was the newest boat in the fleet form Northeast Harbor, *Tern*, Bob Johnstone's J/100 No. 111, which was launched in June. Third overall and winner of the J/Boats Trophy for Division 1, as well as winner of the Paul Nevin Trophy, was Hal Kroeger's Morris 52 *Far Out*.

The Becton Bowl for the fastest boat, based on cumulative elapsed time for all five races, was awarded to David Rockefeller, Jr. and Rick Burnes' IMX 45 *Cybele*. Another noteworthy performance was that of Governor Pete du Pont's J/100 *Miss Marvelous* from North Haven, which was leading the overall point score for the week by two points and won the Nevin Cup for Division 2, but was unable to participate in the final three races of the Northeast Harbor Fleet's traditional August Cruise. DERW combines the Kollegewidgwok YC's Nevin Cup and the NEHF August Cruise for a weeklong event. Complete results for each of the race days are shown in the summary on the facing page.

**DERW - Nevin Cup 1 – Aug. 6:** Sunday's 20.1-mile race started in Jericho Bay under cloudless skies and a light/moderate sea breeze with a beat, then a reach, through

Merchant's Row, a run around Bald Island, with a beat to the finish. Marc Heilner's beautiful Center Harbor Boat Yard 50, *Hoi-An* was the winner with builder Steve White aboard. Seal Bay, Vinalhaven, was the fleet anchorage and raft-up.

**DERW – Nevin Cup 2 – Aug. 7**: Monday was overcast with a building southwest breeze of 10-20 knots. The KYC Committee boat set a three-mile windward leg followed by a 15-mile run against the current among the islands of East Penobscot Bay to the Bucks Harbor Bell, then a close gusty fetch down the Eggemoggin Reach – a total of 28.5 miles. *Far Out* put her overall length to work, winning this race and the Nevin Cup handily under its combined corrected time format

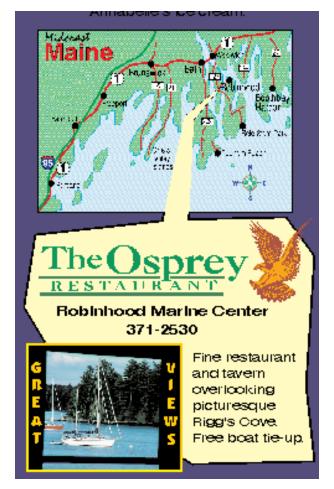
**DERW – August Cruise 1 – Aug. 9**: Beautiful weather continued on Wednesday with a start near Orono Island. Gordon Haaland's J/42 *Eventyr* did the best job of negotiating light winds and favorable current through the Casco Passage, the long beat down Jericho Bay, and the reach into Southeast Harbor to win this 20.1-mile race overall with *Ariana* and *Tern* close behind. The fleet enjoyed a calm, full-moon anchorage.

**DERW – August Cruise 2 – Aug. 10**: Thursday was a navigator's challenge with a start just west of Eastern Mark Island with a half dozen possible routes through the islands of Merchant's Row upwind to Nun 10, northwest of Merchant Island.

Initially *Sheerness* and *Eventyr* played it smart by heading directly into open water away from the islands, but then the next challenge was how to get to Black Island in Blue Hill Bay: Through the Casco Passage, North of Marshall, or South of Marshall around Swan's Island.

Then there were wind/current bands between Long Island and Swans to deal with downwind around Black Island to





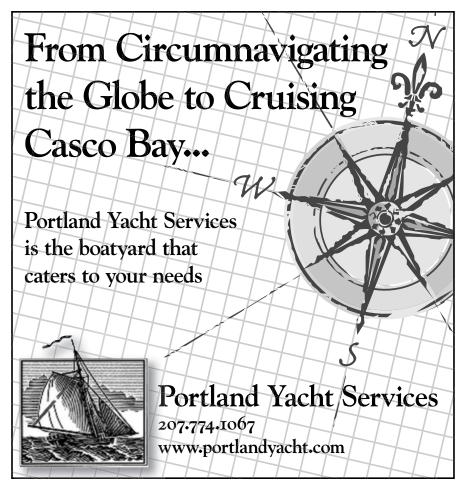
Dox	<b>vneas</b>	t Race Week Resu	lts						
Ran	k Fleet	Boat	Helm	Nevin Cup 1	Nevin Cup 2	August Cruise 1	August Cruise 2	August Cruise 3	Total
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28		Ariana Tern Far Out Eventyr Sheerness Weather Gauge Breakaway Sidewinder Pequot Reindeer Cybele Miss Marvelous Crackerjack Hoi-An Otter Xanthippe TBD Merlin Petard Flying Clipper Fianna Caliegh Seasmoke Oscar Charade Antares Finese Intuition Va Pensiero For Sale Lioness	Jeff Becton Bob Johnstone Hal Kroeger Gordon Haaland Scott Loweth Stockton Smith Edmund C. Tarbell Tom Rolfes Bevin Cherot Newbold Smith Burnes/Rockefeller Pete duPont Alan Krulisch Marcus Heilner Henry Becton Daniel Dennett Peter/Barbie Horneffer Mark Cluett Sandy Lieber Peter Heldman Matt Jones Wiggins Tom Gill Donna Schlegel Patrick Wilmerding David Sharpe Newt Merrill Karl Schoettle Joe Weber Jeff Sammis/Bill Full Ivan Lowenthal	6.0 3.0 7.0 5.0 4.0 9.0 20.0 19.0 11.0 17.0 2.0 13.0 10.0 8.0 23.0 12.0 DNC 18.0 22.0 14.0 15.0 16.0 21.0 24.0 DNC 25.0 DNF DNC DNC DNC	2.0 5.0 1.0 11.0 10.0 6.0 8.0 3.0 12.0 21.0 9.0 4.0 16.0 14.0 7.0 17.0 15.0 DNC 13.0 DNC DNC DNC DNC DNC DNC DNC DNC DNC DNC	2.0 3.0 5.0 1.0 9.0 4.0 7.0 8.0 10.0 6.0 13.0 DNC 12.0 DNC 14.0 DNC 11.0 DNC 11.0 DNC 15.0 DNC DNC DNC DNC DNC DNC DNC	1.0 2.0 4.0 3.0 8.0 11.0 5.0 7.0 12.0 13.0 16.0 DNC 6.0 DNC DNC 10.0 DNC 10.0 DNC 10.0 DNC 10.0 DNC 10.0 DNC 10.0 DNC DNC DNC	2.0 4.0 10.0 8.0 1.0 7.0 5.0 11.0 9.0 6.0 3.0 DNC 14.0 DNC 13.0 DNC 12.0 DNC 12.0 DNC DNC DNC DNC DNC DNC DNC DNC DNC DNC	13.0 17.0 27.0 28.0 32.0 37.0 45.0 48.0 54.0 56.0 58.0 59.0 61.0 68.0 76.0 80.0 81.0 84.0 89.0 90.0 91.0 92.0 93.0 94.0 100.0 101.0 101.0 101.0 101.0
28	III	Balance	Haven Ladd	DNC	DNC	DNC	DNC	DNC	101.0

starboard, then with the current and spotty winds returning to RW "BC" Whistle, then to the finish off Frenchboro – except there was no whistle or buoy. David Rockefeller's *Cybele* was probably wondering whether fatigue had set in on this 34.0-mile race when approaching this phantom buoy and seeing nothing on the water. They radioed the Race Committee, who then advised everyone on VHF 73 to round the spot in the water where their GPS plotters show the mark should have been.

This small glitch didn't seem to dampen the lobster-roll picnic on Janneke Nielson's lawn overlooking the anchorage in Frenchboro, nor did the line of thunderstorms which hit just after dark as nearly everyone had returned to their boats for the evening. Ariana was the overall winner of this race, followed by *Tern* and *Eventyr*. Mrs. Nielson was awarded the Chairman's Bowl for her contribution to this year's event.

**DERW – August Cruise 3 – Aug. 11:** Friday was an idyllic Maine day with a 5- to 15-knot shifty northerly. The fleet sailed upwind with favorable current to

DERW, continued on Page 21



# Outstanding sailing conditions make MS Regatta a breeze

Racing Class A boats beat past Fort Gorges shortly after the start of the MS Regatta in Portland Harbor.

2006 MC Ponetto Populto

Commocean

Mark Waite



Wavelengthstudios.com/Andrew Sims

#### **MS Regatta**

2007 regatta: Aug. 18 FMI: www.mssociety.org

It was another outstanding day on the racecourse Saturday, Aug. 19, as more than 100 yachts participated in 13 classes in the 25th MS Regatta. As always, the fun started long before the race as boats gathered for the traditional parade from The Brothers to Portland Harbor. Who knew that a hot-dog-and-bun assembly could remain perfectly intact when tossed from one boat to another? Thanks to Bob Kellogg and the crew of *Tamarack* for pro-

Ph.D.

20	<i>106 MS Regatta</i>	Results							
Rac	ing Class A		6	Norweigan Could	Lynn Tukey	5	Bodacious	Ken Marsh	
1	Revolution 2	Ed Rogers	Cru	ising Class A		6	Sita	Peter Frankwicz	
2	Scaramouche	Merle Hallett	1	Emotional Rescue	Bruce Cassidy	7	Got Sales	Mike Beaudette	
3	Pain Killer	Rick Simonds	2	Cadre	Fred Leighton	8	Guiness	Bruce Clary	
4	Kaos	Scott Smithwick	3	Too Elusive	Arthur K. Watson Jr.	9	Iolanthe	James Parmentier	
5	Bandito	Richard Hale	4	Dawn Treader	Fred Madeira				
6	Big Dog Party	Peter Price	5	Morning Star	James Palmer	Etc	hells		
7	Tamarack	Bob Kellogg	6	C-C-Courage	Jennifer Yahr	1	Fuzzy Logic	Richard Tonks	
8	Revo-Ocho	Doyle and Jim	7	Jan	Lou Profenno	2	Medusa	Seth Sprague	
		Marchant	8	Eastern Exposure	Anthony Armstrong	3	Glass Slipper	Terry Naylon	
9	Wiley	Bruce Cumback	9	Windsong	Charles Micoleau	4	VooDoo	Ralph Carpenter	
10	Beausoleil	Richard Parent	10	Quiditas	James Hall	5	Boogie T.Y.P.	Nicole Jacques	
11	Sheerness	Maine Maritime							
		Academy	Cru	ising Class B		J/2	4		
			1	Island Pursuit	Paul Riley	1	Second Chance	Jeff Smith	
Rac	ing Class B		2	Endeavor	Mark Balles	2	Mr. Hankey	Andrew Carey	
1	Black Owl	Ned Semonite	3	Nipantuck	Mark Werner	3	Flying Circus	Howard Coon	
2	Ghost	Kenneth Colburn	4	Defiant	Wayne Smith II	4	Denali	Tony Jessen	
3	Keemah	Donald Logan	5	The Phoenix	Erik Greven	5	Underdog	Dan Marston	
4	For Sale	Jon Knowles	6	Enterprise	Neal Weinstein	6	AL	Mark Klein	
5	Phoenix	Sean Dunfey	7	Wasabi	Charles Baird	7	JaZazzi	Jim Dodd	
6	Peregrine	Erik Pedersen	8	Shadow	Bob Steeves	8	Belafonte	Nick Dambrie	
			9	Whisper	Rolfe Bryant	9	Kind of Blue	Matt Blakeman	
Rac	ing Class C		10	Aphrodite	Harry Richardson	10	Impetuous	Stephen Gill	
1	The Wagon	Richard Hallett				11	Flying Chicken	Richard Carlson	
2	Commotion	Geoffrey Emanual	Cru	ising Class C					
3	Downtown	Chris Eisenhart	1	Rita P	Randy Rice	Mu	Itihull A		
4	Snowbird	Jonathan Randall	2	Artemis	Ron Cole	1	Sorn	Jesse Deupree	
5	CharSar	Scott Fox	3	Lioness	Sheldon Haynie	2	Third Dimension	J Scott Reynolds	
6	Sunshine	David Jones	4	Incognito	Al Carville				
7	Roach Coach	Richard Stevenson	5	My Pal	Theo Tierney	Mu	Itihull B		
8	Honalee	Richard Stevens	6	Peer Gynt	Charles O'Brien	1	Hobie 16	Sean MCQuilken	
9	Kingfisher	P. Andrews Nixon	7	EZ Go'N	Brad Weller	2	Hobie 16	Doug Baker	
10	Night Shift	Mike laconeta	8	Surprise	Richard Conner	3	Super Flash	Lawrence Walden	
			9	Seaglass	James Vitale	4	Sea Horse	Bill Bartlett	
	ing Class D					5	Nacra	Craig Hackett	
1	Akela	David Pierce		ising Class D					
2	Five	Tom Hall	1	Ajax	Dave Merrill		ssics		
3	Nette	Stephen Purdy	2	Athais	John Dunning	1	Seaward	Walter Greene	
4	CCure	Harry Hepburn	3	Whiplash!	Jay Nelson	2	Hornpipe	Stephen Duguay	

Steven Ballou

Dovetail

viding the pre-race nourishment.

After the launching of additional projectiles, including water balloons and beverages, it was time to get serious and start racing. It had been a little calm earlier in the day, but any doubts about the favorable wind forecast were erased as a brisk southwesterly filled in and the guns went off. There were new courses this year to keep boats out of the ship channel and away from the high-speed Cat ferry. After the start off Fish Point, racing fleets rounded the first mark south of Fort Gorges, then ran out Diamond Island Pass to Hussey Sound. After

rounding marks at the mouth or outside the Hussey, they came back in, rounded the nun south of Basket Island, and



Wavelengthstudios.com/Andrew Sims

Crew members on a multihull hike out as their boat screams along in a brisk breeze during the MS Regatta.

beat to the finish.

Cruising classes ran shorter courses inside Great Diamond Island to marks near Cow Island Ledge or Basket, depending on class, then did the same beat to the finish. This led to a very busy finish line, with boats from Racing A through Cruising D through Multihulls all crossing within a few minutes of each other. We heard four guns within just a couple minutes of each other, along with lots of horns: How's that for mixing it un?

Best of all, the regatta was part of the four-day MS Harborfest weekend. More than \$100,000 was raised for

the Maine MS Society, whose mission is to end the devastating effects of multiple sclerosis.

#### **DERW, continued from Page 19**

Staples Ledge, out against the current around Great Duck Island then finished this 18.7-mile race in Bass Harbor to end the week. Scott Loweth sailing the Taylor 41 *Sheerness* for the Maine Maritime Academy won this race and also the Lewis K. Cherot Memorial Trophy for the best three races in Division 1. But *Ariana* could do no wrong, catching the right amount of wind to hang in with the leaders, even reaching at eight knots across the notoriously fickle Bass Harbor straight to the finish to secure her overall win on corrected time.

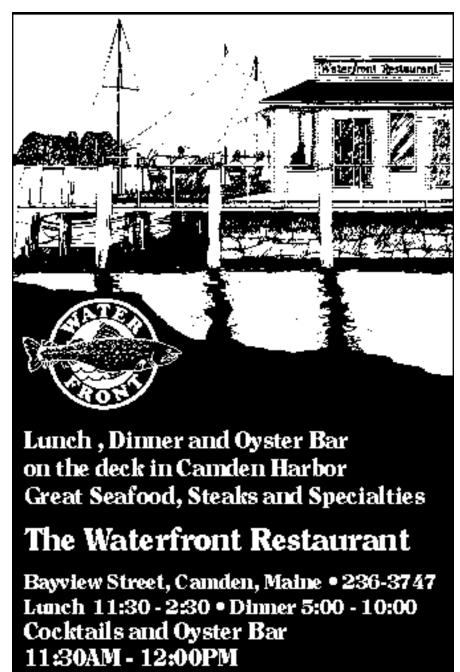
#### The Monhegan Island Regatta

2007 regatta: Aug. 11-12 FMI: www.portlandyachtclub.com

Anyone who opted out of the 2006 Monhegan Regatta thinking that it would be another drifter missed one heck of a ride. A spinnaker start, lots of broaching, and sightings of whales, porpoises, and shooting stars made for a memorable night for the skippers and crews of the 55 competing boats.

"If you weren't going faster than you ever have on your boat, then you weren't in this race," said Geoff Emanuel, also known as Mr.

Monhegan. The former GMORA president and skipper of the Frers 30 *Commotion* has always been passionate about this race (he's sailed it more than 30 times), and said his crew had the boat planing for the first time ever. Not bad considering he was using a back-up main – his primary main blew out two nights earlier when a squall hit





Wavelengthstudios.com/Andrew Sims

#### Tamarack and Scaramouche run through choppy seas in the 2006 Monhegan Regatta.

the Thursday night race at Portland Yacht Club.

As usual, the fun really started at the skippers' meeting and cocktail party the night before. But for racing purposes, we'll say it began, appropriately, at the starting line. With winds out of the northwest, it was a spinnaker start, and their velocity and frequent gusts gave spectators a great show.

The prize for the most highly publicized broach went to Greggus Yahr, whose outstanding timing and boat placement ability put his J/110 *C-C-Courage* directly in front of the media boat when she laid on her ear. *C-C-Courage* graced page 1 of the Maine Sunday Telegram's sports section the following morning. "We were right at the line for the gun and

got hit by a gust as we took up the asymmetrical. She went over, we recovered, and we kept on going," said Yahr, who sailed *C-C-Courage* to a 3rd place finish in the Monhegan B Class.

There were other broaches, wraps, hourglasses, and assorted snafus in other class starts. But before long, boats were running out Hussey Sound. That's right, running! The usual tacking duels were absent, and tidal currents that so often put tacticians' skills to the test were not a big factor.

The A fleet reached down to Kennebunkport, the B fleet and Seguin classes to Biddeford Pool, and the Manana class to the former Portland LNB. Then everyone headed to what would usually be the downwind marks at Monhegan or Mile

# Maine's Most Friendly Anchorage in the heart of Casco Bay

- ★ Seasonal Moorings & Membership Includes Launch Service, Parking and Use of Docks
- \* Full-Service Boatyard
- ★ Falmouth Sea Grill Restaurant
- \* Hallett Canvas & Sails
- ★ The Boathouse Boating hardware
- **★ The Chandlery Fine Clothing for Women**
- \* Handy Boat Brokerage Yacht sales



207-781-5110 Fax 207-781-7534 www.handyboat.com Ledge off Seguin. The northwesterlies made that leg more of a reach - sometimes a tight one.

The earlier finishers had the good fortune to get back to the finish line off Portland Head Light on a single tack. But eventually the breeze moved forward, and most boats ended up beating part or most of the way back in. Still, the 2006 Monhegan was one of the fastest in years. As PYC Commodore Richard Thompson put it at the awards ceremony: "We've proven once and for all that we can have wind for the Monhegan."

The strong winds put some of the heavier boats at an advantage. Richard Parent's Beneteau 456 Beausoleil was able to keep her chute up and crew on the rail for the entire leg to Monhegan, and it paid off. She took 1st in Class A. Ned Semonite's J/105 Black Owl won Class B, and David Ruff's J/29 Go Dog Go won the Manana Class. Ford Reiche's Concordia 39 Eclipse took the doublehanded racing division.

In the Cruising Divisions, Dean Howells' Farr 50 Tenho won Seguin A; the Alberg 37 Artemis skippered by Ron Cole won Seguin B; and Nipantuck, a Center Harbor 31 skippered by Mark Werner, emerged at the top of Seguin C.

#### Monhegan Class A Revolution II

- Beausoleil
- 3 Kaos
- 4 Scaramouche
- 5 Breezing Up
- 6 Boreas
- 7 Whiplash
- 8 Sheerness
- 9 Pain Killer
- 10 Bandito
- 11 Big Dog Party
- 12 Banzai
- 13 Phoenix
- 14 Tamarack

#### Monhegan Class B

- Black Owl
- 2 Prodigal 3
- C-C-Courage Vision Quest Dana Anderson

#### Manana Class

- 1 Go Dog Go 2 Roach Coach
- 3 Snowbird
- 4 Illusion
- 5 Commotion
- 6 Downtown
- The Phoenix
- 8 Milady
- 9 Rip Curl 10 Sunshine
- 11 Rogue
- 12 Assunta
- 13 Belafonte

Scott Smithwick Merle Hallett Brad Willauer Lloyd Van Lunen Ted Smith

Ed Rogers

Richard Parent

Maine Maritime Academy

Rick Simonds Dick Hale

Pete Price Bruce Brown Giff Hammar

Bob Kellogg

#### Ned Semonite Bob Hickok

Jennifer Yahr

David Ruff Rick Stevenson Jon Randall

Gary Blenkhorn

Geoffrey Emanuel Chris Eisenhart

Eric Greven Kris Jennings

Tyler Thims David Jones

**Emmerson Smith** 

Justin Andrus Nick Dambrie

#### Monhegan C - Doublehanded Racing

**Eclipse** Ford Reiche For Sale Ben Knowles 2 3 Wishing Star Doug Martin 4 Emotional Rescue Bruce Cassidy 5 Honalee Dick Stevens Nightshift Mike laconeta 6 Patriot Dexter Hyland

Nat Henshaw

Ted Fisher

#### Monhegan Open Class

Gryphon Solo Joe Harris

#### **Multihull Class**

Beagle

Pegasus

8

Irish Lady James Love

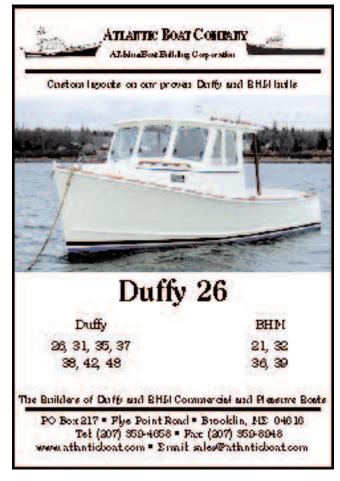
#### Seguin Class A

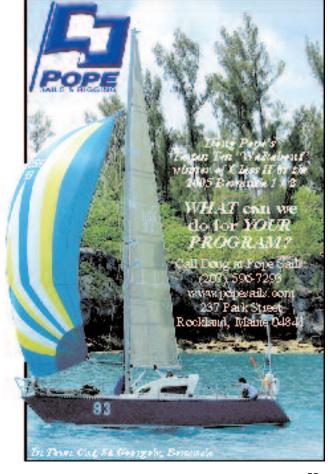
Tenho Dean Howells 2 Thistle James Thomson Cara Mike Kettenback

se	guin Class B	
1	Artemis	Ron Cole
2	Lioness	Sheldon Haynie
3	Dawn Treader	Fred Madeira
4	Nice Twice	Mike O'Roarke
5	Nirvana	Peter Colesworthy

#### Seguin Class C

	B 000 0	
1	Nipantuck	Mark Werner
2	Ajax	Dave Merrill
3	Rita P	Randy Rice
4	Soulmate	Chris Kean
5	Shadow	Roh Steeves

















# **DRA 2006**











# Yarmouth Cup returns after one-year hiatus

2007 race: Aug. 30

FMI: www.yarmouthcup.com

Skippers and crews on 16 boats put their skills and endurance to the test on the 174-nautical-mile trip across the Gulf of Maine as Labor Day weekend approached.

In Racing A class, Arthur "Kitt" Watson's Ocean 80 *Too Elusive* was 1st to finish and 1st on corrected time, beating Richard Parent's *Beausoleil* by about nine minutes. Dean Howells' Farr 50 *Tenho* was 3rd, about 15 minutes (corrected) behind *Beausoleil*.

In Racing B, John Grillo's Sabre 36 *Wendigo* was the decisive winner, crossing first and correcting on everyone. *Wendigo* had company through most of the race, with Greggus and Jennifer Yahr's *C-C-Courage* close behind. She



Points East file photo

At left, good food and camaraderie are always in great abundance at post-race festivities in Yarmouth, Nova Scotia. Above, racing yachts tie up at the docks in Yarmouth after completing the 174-mile race.

people who are typically skippers. In addition to Baker, who sails his Sabre 32 *Libra*, there was long-time HYC racer Spencer Drake, and Dave Merrill, skipper of the Ericson 27 *Ajax*, took 2nd place overall in Cruising Class in 2006. "Sailing is great," said John, "and every once in a while you throw a win in there, and it keeps you coming back."

Congratulations to John, Kitt, and all the competitors on this 174-mile overnighter. Thanks for bringing the Yarmouth Cup back to life!

finished 2nd in the class, and 3rd place went to Dana Anderson's Sabre 426 *Vision Quest*.

After a spinnaker start, racers fought an incoming tide out Hussey Sound, then cracked off on what *Wendigo* skipper John Grillo described as a "nice reach" across the Gulf. "We stayed south of the rhumb line for pressure," he said. "We found ourselves seven or eight miles south of the rhumb line, and the conditions were good out there."

Racers alternated between flying their spinnakers and not flying them. As for *Wendigo*, John said, "We carried it till we blew it out." The wind was out of the north or northwest most of the way across, but eventually moved to the east.

"As we got closer to the Bay of Fundy, the tide brought us back to the rhumb line," said John, who said *Wendigo*'s crew adjusted her course as they approached the finish, per the advice of navigator Barney Baker. "The wind was on the nose, we were getting pushed south, but we had just enough pressure to tack once and get to the line," said John. "It was just perfect – just great." Boats that went north of the rhumb line, seeking a cold front that didn't materialize as forecast, finished further back in the fleet.

John gave lots of credit to his crew, which consisted of

#### 2006 Yarmouth Cup Results

Racing	g Class A	
1	Too Elusive	Kitt Watson
2	Beausoleil	Richard Parent
3	Tenho	Dean Howells
4	Sheerness	Scott Loweth
		Maine Maritime Academy

5	Soulmate	Christine Kean
6	Bandito	Dick Hale
7	Kaos	Scott Smithwick
8	Saga	Kris Kristiansen
9	Big Dog Party	Peter Price
10	Beagle	Nat Henshaw

#### **Racing Class B**

1	Wendigo	John Grillo
2	C-C-Courage	Greggus & Jennifer Yahr
3	Vision Quest	Dana Anderson
4	Wishing Star	Doug Martin
5	S-Cape	Paul Morin
6	Panacea	Gus MacDonald

# Conditions challenge RYC West Bay Race

#### By Neil Woodside

For Points East

The Rockland Yacht Club's annual West Bay Race was held last July 15-16, with 20 boats and crews competing. The distance of approximately 24 miles between Rockland harbor and Bayside, near Belfast, was covered each way during the two days of the event. Ten entries from the Northport Yacht Club competed against 10 from the RYC fleet.

The 11 a.m. start on Saturday was held off the NYC's Bayside dock in a faint southerly breeze. Racers were tested in their ability to get their boats moving upwind in very light air. As the race progressed, the breeze was not consistent, and some competitors gained ground by finding puffs, while others struggled to maintain headway. Late in the afternoon, conditions improved with a steadier breeze, and most boats

were able to complete the course. The crews enjoyed a post-race cookout Saturday evening at the RYC's meeting room at Atlantic Challenge, overlooking Rockland harbor.

The return course on Sunday began with an upwind start set in Rockland Harbor, followed by a downwind passage through Gilkey Harbor in Islesboro, ending off the NYC dock in Northport. The conditions once again were less then ideal, with very light winds and dense fog delaying the start for nearly an hour. During the day, the fog came and went, but gradually cleared near the finish line. Most boats flew their spinnakers, making for an unusual scene as the large, colorful

Kip Stone wins Route de Rhum

Freeport, Maine's, Kip Stone and his Open 50 *Artforms* won the Class 2 monohull division of the 2006 Route du Rhum, a 3,500-mile solo transatlantic race that began October 29 in St. Malo, France, and finished off Guadeloupe. Kip crossed the finish line last November in a class record of 17 days, 22 hours, and 36 minutes, 18 hours ahead of his nearest competitor. More than 70 sailors in eight classes competed in last year's edition.

Kip and *Artforms* also won the Open 50 class in the 2004 Transat from Plymouth, England, to Boston, also with a new course record; won the 2005 Bermuda 1-2; and placed 2nd in the doublehanded Transat Jacques Vabre from France to Brazil.

For the Route du Rhum, Kip teamed up with third-graders at L'Ecole Française du Maine, a French-immersion school in Freeport, followed Kip and *Artforms* during the race.

sails appeared and faded away in fog that was sometimes dense. The breeze was well under 10 knots for most of the race, but briefly increased to near 20 knots and gusting near Bayside, making for an exciting final leg of the race.

Entrants were divided into groups based on handicap ratings. After calculating handicap adjustments, first place in Division 1 was decisively taken by the RYC's Ken and Susan Priest of China, sailing their J/35 Extra Beat. Second went to RYC's Gary Cran of Owls Head on his Tartan 3500, Black Bear. Northport sailor Mike Giles took 3rd on his Olson 38, Apogee. In the second division, Northport sailor Rob Frank took 1st on his Ranger 26, Sea Tao, followed by RYC racer Gust Stringos of Skowhegen on his Morris 36, Bluebird. Third went to another RYC sailor, Dave Hoy of Camden on his Catalina 27, Wyanoke.



# GREAT PRICES! GREAT STUFF!



800-639-2715 hamiltonmarine.com

# 27th Annual Friendship Chowder Cup Race

By Nina M. Scott

For Points East

Aug. 12 dawned sunny and clear, but with gusty northwest winds rather than the prevailing generally steady



Photo by Polly Jones

The fleet at last year's Chowder Cup Race grew to 35, but only 25 successfully completed the course.

southwest breezes. Thirty-five boats registered, and 25 finished. Four others were disqualified for not crossing the official finish line, mainly because their skippers – by their own admission – had not read the race directions.

With 20 boats in Classes A (over 28 feet) and B (18 to

28 feet) all vying for a good start, I confessed to my husband, Jim, that my mouth was very dry. "Mine, too," he said. The wind was challenging for all contenders, with Iulls of about 12 knots alternating with blasts of 30 knots.

Class A and overall winner was Jack Twigg in his 36-foot Sabre, Stealth, who completed the 8.5-mile course in 1:28:55. "Conditions were perfect for her, and we made the right tactical decisions," he said. He bought his entire crew the handsome T-shirts designed this year by local artist Barbara Beebe, "and they haven't taken them off all week." At the post-race dinner, Jack announced that this would be his last race in Stealth, which made his victory that much more satisfying.

Dick Semmes and Judy Ribeiro were 2nd in *Frenesí*, a Contention 33, with *Turtle*, a 37-foot Bostrom



sloop skippered by Chris and Doug Gleason, 3rd. Chowder Cups designed by Tracy Wilson of Saltbox Pottery were awarded to the first three boats in each class.

Class B was won by 18-year-old Toph Cunningham. He and brother Will, 16, are the new owners of *Strega*, a black J/24 that used to belong to the late Clark Donatelli, long-term member of the Chowder Cup organizing committee, and experienced racer and cruiser.

Clark's widow, Ann Fillippi, chaired the awards ceremony. *Strega* means "witch" in Italian, and with tears in her eyes, Ann recalled that when Clark acquired *Strega* he teasingly told her, "I've named the boat for you!"

After his death Ann put *Strega* on the market, but she didn't want the boat to go to just anyone, so she was delighted when the young Cunninghams wanted to buy her. Their grandfather had done considerable work on the boat when Clark first acquired her.

Aboard with skipper Toph was his father, Paul, who has experience racing J/24s. During the race, *Strega* got hung up on Jim's Island ledge but was able to get off and win her class. Toph was unavailable to speak with the boating press, as Paul had just taken him to Maine Maritime Academy for his first year. Ann felt that Clark would have been pleased to have his beloved *Strega* go to two young and accomplished sailors who would race her for many more years.

Tom Hammermeister took 2d in his 24-foot Bridges Point sloop, *Merlot*. He was the Class B winner last year, but this year it was *Strega's* day. "When I saw that J/24 rocket ship, I said 'Uh oh,' and I was right," he commented, but he was still pleased with his performance.

Charlie Witherell, who had courage enough to fly a spinnaker despite the heavy winds and made money doing so, took 3rd with his Rhodes 19, *Osprey*. "My boat was built in 1967," Charlie observed, "and I was just damned glad that everything held together."

In Class C (18 feet and under), Lili and Alex Pugh's 17-foot Mobjack, *Tub*, led all the way but did not cross the proper finish line. They realized their mistake and re-crossed, but by that time Johnny Armstrong in his

Friendship Catboat, *Barbara*, had finished 1st, thereby winning both the silver tray for Class C and the separate Catboat award.

Johnny is a member of his Dartmouth, Mass., high school sailing team, so he is no novice. Johnny was very grateful to his cousin, Mitch Moore, for his expert handling of the mainsheet.

Wells Hodous, accompanied by sons Oliver, 14, and Avery, 8, sailed his 15-foot Point Jude sloop, Elizabeth Marie, to 2nd place. Jono and Caleb Armstrong, Johnny's father and younger brother respectively, took 3rd in Wanna Be Red, a 1966 O'Day Day Sailer, which made it a

good day for the Armstrong clan.

Phil McKean was so busy cooking lobsters for 25 guests that he was 10 minutes late in starting, and his gallant *Deborah Ann*, a 25-foot Bahama Islander (built in 1969), could not make up this deficit. Phil was so profoundly grateful that his sails had not blown out that he did not mind going home with the can of fish chowder traditionally awarded to the Last Boat In.

Next year the Chowder Cup will be held a week earlier, on Aug. 4, 2007. Come and join us. As Dick Semmes put it, "The Chowder Cup is coming to be known as one of the top fun races on the Maine Coast."





Wavelengthstudios.com/Andrew Sims

Above, Merle Hallett's Scaramouche races in the PHRF New Englands. Below, Peter Price's Big Dog Party took 3rd.

# Maine boats excel at PHRF-NE

Two Maine skippers and crews raced to a one-two finish in their class at the PHRF New England Championships in Marblehead, Mass., Aug. 25-27. Ken Colburn's *Ghost* finished 1st and Don Logan's *Keemah* took 2nd place in the J/105 class in the seven-race series.

Ghost, which sails out of Boothbay Harbor Yacht Club, won three of the seven races and had top-five finishes in the other four to take the series. Keemah sails out of Portland Yacht Club in Falmouth and also had a 1st, then remained consistent through the weekend to finish 2nd for the series.

With 17 boats on the line, the J/105 class was the most hotly contested in the fleet, with tight starts, a lot of traffic at mark roundings, and close finishes.

"Over all three days the competition was very challenging," said Colburn. "If you made a mistake, you gave up several boats, and if you were able to call a shift correctly you gained a few. It was some of the most intense J/105 racing



Wavelengthstudios.com/Andrew Sims

Northern New England has seen."

Colburn attributed his success to "a strong crew working well as a team," and Logan agreed that crew work was key to his strong performance. "I've been fortunate to put together a very good crew over the past three years," he said. "They make or break the boat." Ghost and Keemah were among several Gulf of Maine boats competing in the series.

Congratulations also go to Class-8 winner Tom Hall on Five, who dominated GMORA Racing Class D all summer. Peter Price's Big Dog Party,

Merle Hallett's Scaramouche,

and Scott Smithwick's *Kaos* all took 3rd places in their respective classes. Ed Rogers' *Revolution 2*, Richard Ketchum's *Spanking Machine*, Maine Maritime Academy's *Sheerness*, Geoff Emanuel's *Commotion*, and Richard Stevenson's *Roach Coach* also made the trip down to compete. Complete results for the PHRF New England Championships can be found at http://www.phrfne.org.

# Ajax, Wiley excel in Handy Boat Regatta

The lowest-rated boat in GMORA, *Ajax*, David Merrill's Ericson 27, continued its impressive season by winning the cruising class at this year's Handy Boat Midsummer Regatta. A battle between the sea breeze and the land breeze made for challenging conditions and 45-degree wind shifts.

On the first beat of the Class A, the wind went from 190 degrees to 265 degrees midway up the beat as the sea breeze died and the land breeze came rushing in. As boats finished, the wind was at 345 degrees and the land breeze was in full control.

In class A, *Wiley* won the start and worked the advantageous right side early in the beat only to find themselves reaching back to the rhumb line along with the rest of Class A. As these shifty conditions continued, good choices made by several boats paid off, with the lead changing several times and all the A boats finishing within minutes of each other. Final results had *Wiley* winning, *Scaramouche* in 2nd and Tamarack in 3rd.

In class B, Scott Fox sailed his Melges 24 Char Sar to line honors, leading around the entire course. Richard Hallett's The Wagon was in hot pursuit the entire race. The two battled it out for the lead, but in the shifty conditions, protecting any lead was difficult. A 45-degree shift on the last beat had the leaders reaching back to the finish as the slower boats rounded the leeward mark tacked and fetched the finish line. Five ended up correcting out ahead, followed by Char Sar and The Wagon.

In the J/24 fleet, Andrew Carey's *Mr. Hankey* held off Jeff Smith in *Second Chance* for the win.

Jay Hallett did an excellent job as the Race Committee. Jay was single-handed and was able to orchestrate all the starts, change the course for the racing classes at the leeward mark, and be on-station to accurately record all the times at the finish – a tall order for a three-person team.

Bob Kellogg, the event PRO, did a great job organizing the classes, running the skippers' meeting, then jumped off the RC boat to skipper *Tamarack* to 3rd in class, leaving the racers in Jay's capable hands.

# From One Design to PHRF – we cover it all!! Our sails conquer the best competition.



# Don't Get Left Behind...

Contact our Falmouth or Rockland Loft today to learn more about our proven fast sails.

215 Foreside Road **Falmouth**, Maine 04105 207-781-7070 hallettsails@hotmail.com 34 Atlantic Street **Rookland**, Waine 04841
207-594-9810
hallett\_lockland@hotmail.com

1-800-639-9907

New Salls - Racing & Cruising Service - Quick repair turn around, Sall washing, Storage

Canvas - Dodgers, Birninis, Cushions, Sailcovers, etc.

Rigging - Boller furters, standing and running rigging

www.hallettcanvasandsails.com

# A few good reasons to race your cruising boat

There are about 40 boats that actively campaign in the GMORA racing series; dozens of others participate in a few selected events. But there are many, many other sailboats on the Maine coast that don't come out to the line at all. Some of them rarely leave their moorings.

When asked why they don't come out and race, some skippers will say they don't have the time; others say they lack crew; still others feel their "cruising" boat doesn't stand a chance against the race rockets with all the whistles and hells.

But the truth is nearly anyone can get out there and, with a little effort, be competitive. Even if you don't take home any silver, racing is a great way to meet fellow sailors and have a great time out on the water.

It's time to bust some of the common myths about sailboat racing.

Myth #1: My cruising boat wasn't designed for racing. Her displacement is heavier,

she doesn't point as high, and she doesn't have the sail area as some of those race boats.

You stand a better chance than you might think. All boats competing in GMORA races are assigned a handicap based on factors like their design, displacement, rigging, and sail area. The lower the rating, the faster the boat. So if your boat rates 141, the fastest competitor in your class has a rating of 108, and the race committee is using time-on-distance scoring (the most commonly used in the Gulf of Maine), that "faster" boat will owe you 33 seconds per mile. That means on a 10mile course, she would have to

cross the line five minutes, 30 seconds ahead of you to beat you on corrected time.

PHRF New England even has a recreational credit for boats with roller furling and a limited sail inventory. So what you might lack in go-fast equipment, you get back in a rating credit.

# Myth #2: You need a huge inventory of high-tech sails to be competitive.

Not necessarily. As mentioned above, PHRF New England offers a recreational credit for boats with above-deck roller furling and a limited inventory of mylar or Dacron sails. And if you don't have a spinnaker, you can race Cruising Class — it's a great option for first-time racers as well as racers who would like to kick back a notch.

# Myth #3: It costs a fortune to get a boat race-ready and keep it that way.

The incremental cost of racing over cruising doesn't have to be that much. While some skippers spare no expense to get the latest and greatest equipment and sails, others can be reasonably competitive without breaking the bank.

Boat owners already spend a fair amount every year on necessities like bottom paint, hauling, launch, and storage. Some of the most important performance enhancements —

like a smooth bottom and minimizing weight on board — can be achieved cost-effectively by doing the work yourself. Think of the extra boatyard time sanding the bottom as an opportunity to bond with your fellow boat owners.

# Myth #4: Racing involves a lot of complicated rules. It seems like you need to be a lawyer to understand them all.

While the rulebook might look a bit intimidating at first glance, knowledge of 10 basic rules will get you through most situations you'll encounter on the course. See "Tips for new skippers," page 41 to learn more.

# Myth #5: You need a lot of crew to race, and finding crew is difficult.

First, depending on what kind of boat you have and what class you race, you might not need many people. Some cruising class boats, which don't fly spinnakers, race with just two or three people on board.

Second, if you want to fly a chute and need more people,

finding crew is a lot easier now than it used to be. The annual Points East crew match party is a good place to start. It's happening Wednesday, May 9, at Handy Boat in Falmouth. Cruising sailors are already familiar with this annual rite of spring. So this year, in addition to enjoying the free refreshments, find yourself some crew.

You shouldn't miss the party, but if you do, Points East also has a crew match section in its classified advertisements. There is also the world-wide web. GMORA hosts a crew pool forum on its web site www.gmora.org. Sailing Anarchy's crew pool forum can be found at www.sailinganar-



Wavelength Studios

Myth: it's hard to find crew. Not true, there are plenty of people out there willing to help out. Here, the crew of the J/35 *Wiley* beat into a brisk breeze.

chy.com.

You can also post notices at local yacht clubs and boatyards, or check with the yacht clubs' youth sailing programs. Some of the participants in these programs are working toward landing spots on college sailing teams. They have a lot to offer a racing program, and by making them part of your team, you'd be helping them gain valuable experience.

# Myth #6: Racing skippers have a reputation for yelling a lot.

Most of the stories about highly competitive skippers with a reputation for shouting at their own crews and other skippers are gross exaggerations and should be taken with grain of salt. While there are occasionally anxious moments at the starting line, more often than not, the conversation both on and off the course is friendly. After the race, it's not at all uncommon for a winning skipper to buy a competitor a beer and give pointers on making the boat go faster. To put it simply: racers in all classes want more people to come out and play and perform at their best.

I've saved my favorite myth for last.

MYTHS, continued on Page 33

# Nipantuck Dirigo Bowl winner for second year

Nipantuck, a Center Harbor 31 sloop, and her skipper, Mark Werner of Southport, Maine, and Cincinnati, Ohio, were awarded the Dirigo Bowl for the second straight year by the Gulf of Maine Ocean Racing Association at its annual Awards Banquet in October. The event was the culmination of the racing season for nearly 140 competitors in the Gulf of Maine summer series.

The Dirigo Bowl is the top honor in Gulf of Maine sailboat racing, and scores of sailboats, skippers and crews hit the racecourse most weekends from June through Labor Day in hopes of taking it home for the winter. The Dirigo Bowl goes to the boat with the highest number of points for its nine best race days over the summer. Boats have to compete in at least two of GMORA's three regions to qualify for the award.

In announcing *Nipantuck's* repeat, GMORA Vice President Randy Rice noted the extraordinary efforts Werner and his crew take to get *Nipantuck* to the course and to stay ahead of their competitors.

"They commute to Maine from Ohio by jet, then deliver the boat several hours from Southport to Casco Bay for many of the races," he said.

"Nipantuck is always well prepared, and Mark has told me that shifting a crew member just a few inches can give her extra speed. It's this kind of effort that keeps her ahead of us and other competitors in Cruising Class."



Photo by Gail Rice

Peter Cole (left) and Mark Werner (right) from the yacht *Nipantuck*, which won the Dirigo Bowl for the second straight year.

#### MYTHS, continued from Page 32

# Myth #7: I'm really not that competitive — I couldn't care less whether I'm going faster than that other guy.

Come on, you're not fooling anyone. It has been said that whenever two sailboats are within sight of each other and going in the same direction, they are racing. Some die-hard cruisers might fervently deny that, but even the most laid-back skippers who claim not to give a whit about racing have been caught putting forth some effort to make their boat go faster.

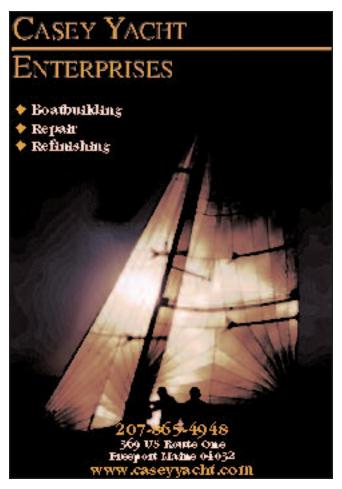
Many a "cruising" skipper has been spotted looking over his shoulder at another boat and them trimming sails to try and gain some ground. So as long as you're going through all the motions of racing, why not make it official?

If you're still not convinced, consider this. The camaraderie among racing sailors is what keeps them hooked. Sailboat racing has been described as a "subculture" where people from diverse careers and backgrounds share a common interest, and where competitive drive is tempered with sportsmanship.

Want more motivation? Skills developed on the racecourse come in handy on that summer cruise. Better boat speed means you'll get to your destination earlier, or, if the mood strikes, you can click off more miles and get to places you haven't visited before.

So even if you think you're a die hard cruiser, consider giving racing a try. There's little to lose and a lot to gain, and the friendships can't be beat.

-Gail Rice



# GMORA APPLICATION INDIVIDUAL MEMBERSHIP FORM

# GULF OF MAINE OCEAN RACING ASSOCIATION

# 501(C) (3) tax exempt organization

Date		
Name		
Address		
	e-mail	
v v	n below if you are a boat owner.	
Type	Length	
Color	Rig	
Sail #		
Club Affiliation		

 ${\it Comments~\&~Recommendations:}$ 

Please mail application and \$10.00 individual membership fee to: GMORA PO BOX 66743 Falmouth, ME 04105

Visit our web site @ www.gmora.org

	P	HRF-NE			YEAR: 200	<u> </u>
Last Name	THE PERFORMANCE HA		OF NEW ENGLAN			
Fleet	**PI ease	review carefull	v and print	clearlv*	Racing Cruisi	ng
11 661					Do Not Write in These Boxes	
First Name	Last Name	Addr ess	Оtу		Stat Zip 9 dig	its Country
Phone 1&2 Indicate fax number	with "F" promafixaddress	Yacht	Club, full name	US Sailing Yea PH embership Nor	r Joined Member RF-NE*	Sailing Assn eg GMORA, MBSA
Yacht Name Sa	iil Number Design(C&	C 35-3) Year Bui	It Hull Color*	Desi gner	Hul I Number	IRC Rating
	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •
Boat Dimension	DA LWL Draft	t Beam	Di spl acement	Keel Ballast Bal	last Materiahternal	Pol Last
	DA LIVE DIGIT	. 254	Si opi doononi	Weight	Weigh	
Rig Mastheac Fra		oretriangleP-Main LuffE-Ma Base	ain Foot ISP=Spinna Halyard He	ker sets of eight spreaders	Mast Sta Material	nding Rigging Material*
Engi ne:	Pr op:	P	r op:			
I nboar d Out boar d	None Intalled In Apertu	ure Exposed Sail DrivÆy Shaft	rpe Fol di ng	2 blade 3 l Feathering Feat	Blade 2 Blade hering Solid	3 Blade Solid
Rudder:		Keel:				
Keel At t ached	Skeg Spade C		Fin Full	Cent er boar d Wir	g Other	
Have hull, rig or appen	ndages ever been modif	fied ?				
Enter Y or N If Yes	EXPLAI N !!	$\neg$				
See web site phrfne.org	g for Modit	fi ed				
<u>Headsail</u> s:List 5 Head selection o	dsails by % LP (e.g. of 3 Cruising Class So					
# 1 Head S #2 Head Sa #3 H	lead Sa #4 Head Sa #5 Head	Ss Heavy Ii Staysail				
Cui unalesa di et movi m			Blooper Storm	Ji Storm Trys	Mizzer Mizz	en Stays
Spi nnaker :List liaxi lit	um of 3 by weight e.g.	•				-
		75, 1.5. Also,	add "A" for As	ymmetrical Spi	nnaker eg . 75A	<u> </u>
#1 oz #1 W dt h	#2 OZ #2	75, 1. 5. Al so,	add "A" for As	ymmet ri cal Spi	r pole Whisker h Whisker	igt h
	#2.02#2 LPRe <sup>2</sup> creational handic	#3 02 ap requires working in working sails)	add "A" for As  #3 W dt h	ymmetrical Spi  — Spinnake lengt oller furling;	r pole Whisker h Whisker pole len	igt h
#1 oz #1 Wdth  Recreat i on Handi ca	#2 0Z #2 LPReCreational handic (Polyester/Mylar OK Spinnaker. See phr	#3 02 ap requires working in working sails)	add "A" for As  #3 W dt h	ymmetrical Spi  — Spinnake lengt oller furling;	r pole Whisker h Whisker pole len	ugth ctra or other exotic
#1 oz #1 Wdth  Recreation Handica  Enter Y or N  For Handicapper Us	#2 02 #2 LPRecreational handic (Polyester/Mylar OX Spinnaker. See phr	#302 ap requires working in working sails) fne. org web site	add "A" for As  #3 Wdth  g, above deck r . Sail invento	ymmetrical Spi — Spinnake lengt oller furling; ory limited to	r pole Whisker h Pole len no Kevlar/Spe 1 Jib >110% LP	ogth octra or other exotic , 1 Jib <= 110% LP a
#1 oz #1 W dt h  Recreat i on Handi ca  Enter Y or N  For Handi capper Us  Base Handi cap LP ADJ Sp	#2 0Z #2  #2 PRecreational handic (Polyester/Mylar OX Spinnaker. See phr  BE Only	#3 02 ap requires working in working sails)	add "A" for As  #3 Wdth  g, above deck r . Sail invento	ymmetrical Spi — Spinnake lengt oller furling; ory limited to	r pole Whisker h Whisker pole len	ogth octra or other exotic , 1 Jib <= 110% LP a
#1 oz #1 W dth  Recreation Handica  Enter Y or N  For Handicapper Us	#2 0Z #2  #2 PRecreational handic (Polyester/Mylar OX Spinnaker. See phr  BE Only	#302 ap requires working in working sails) fne. org web site	add "A" for As  #3 Wdth  g, above deck r . Sail invento	ymmetrical Spi — Spinnake lengt oller furling; ory limited to	r pole Whisker h Pole len no Kevlar/Spe 1 Jib >110% LP	ogth octra or other exotic , 1 Jib <= 110% LP a
#1 oz #1 W dth  Recreation Handica  Enter Y or N  For Handicapper Us  Base Handicap LP ADJ Sp  Handicapper Notati	#2 0Z #2  #2 PRecreational handic (Polyester/Mylar OX Spinnaker. See phr  BE Only	#302 ap requires working in working sails) fne. org web site	add "A" for As  #3 Wdth  g, above deck r . Sail invento	ymmetrical Spi — Spinnake lengt oller furling; ory limited to	r pole Whisker h Pole len no Kevlar/Spe 1 Jib >110% LP	ogth octra or other exotic , 1 Jib <= 110% LP a
#1 oz #1 W dth  Recreation Handica  Enter Y or N  For Handicapper Us  Base Handicap LP ADJ Sp  Handicapper Notati	#2 0Z #2  #2 DRecreational handic (Polyester/Mylar OK Spinnaker. See phr  se Only  sinnaker ADU Rig ADU  Ons	ap requires working in working sails) fne. org web site	add "A" for As  #3 Wdth  g, above deck r . Sail invento	ymmetrical Spi — Spinnake lengt oller furling; ory limited to	r pole Whisker h Pole len no Kevlar/Spe 1 Jib >110% LP	ogth octra or other exotic , 1 Jib <= 110% LP a
#1 oz #1 Wdth  Recreation Handica  Enter Y or N  For Handicapper Us  Base Handicap LP ADJ Sp  Handicapper Notati and I nitial s:	#2 02 #2  #2 PRe-Creational handic (Polyester/Mylar OK Spinnaker. See phrose Only  Innaker ADJ Rig ADJ  Ons  ty and Signature esponsibility to noti	ap requires working in working sails) fne. org web site  Propeller ADJ Recree	add "A" for As  #3 Wdth  g, above deck r . Sail invento  stion # Msc. Al	ymmetrical Spi  — Spinnake lengt oller furling; ory limited to Racing Handid	nnaker eg . 75A  r pole Whisker h pole len no Kevlar/Spe 1 Jib >110% LP	rgth  ctra or other exotic  , 1 Jib <= 110% LP a  Record Date
#1 oz #1 Wdth  Recreation Handica  Enter Y or N  For Handicapper Us  Base Handicap LP ADJ Sp  Handicapper Notati and Initials:  Owner Responsibili I understand it is my responsibilis.	#2 CZ #2  #2 PRe*Creational handic (Polyester/Mylar OK Spinnaker. See phr  se Only  ons  ty and Signature responsibility to notina standard boat. All	ap requires working in working sails) fne. org web site  Propeller ADJ Recrea	add "A" for As  #3 Wdth  g, above deck r Sail invento  stion A  capper of chan d tables must to determine	ymmetrical Spi  — Spinnake lengt oller furling; ory limited to Racing Handid	nnaker eg .75A  r pole Whisker h pole len no Kevlar/Spe 1 Jib >110% LP  ap Cruising Handi  tht which affect d is adequately	rigth  ctra or other exotic  t neasurement points
#1 oz #1 Wdth  Recreation Handica  Enter Y or N  For Handicapper Us  Base Handicap LP ADJ Sp  Handicapper Notati and Initials:  Owner Responsibili  I understand it is my ror would alter her from I acnowledge it is the	#2 CZ #2  #2 PRe*Creational handic (Polyester/Mylar OK Spinnaker. See phr  se Only  ons  ty and Signature responsibility to notina standard boat. All	ap requires working in working sails) fne. org web site  Propeller ADJ Recrea	add "A" for As  #3 Wdth  g, above deck r Sail invento  stion A  capper of chan d tables must to determine ovided on this	Spinnake lengt oller furling; ory limited to Racing Handing ges to the yacremain on boar that the yacht form is accur	nnaker eg .75A  r pole Whisker h pole len no Kevlar/Spe 1 Jib >110% LP  ap Cruising Handi  tht which affect d is adequately	Record Date  t measurement points equipped and mainta

<sup>\*</sup>Please review new field "Standing Rigging Material" for additional information

# Frequently Asked Questions

#### What is meant by the expression: valid PHRF-NE handicap? What will it mean to me if I do not have a valid PHRF-NE handicap when I race?

A valid PHRF-NE handicap In the Gulf of Maine Fleet (GOM) is one that has been processed through the fleet handicapper, and that has been dated and certified by the PHRF-NE handicapper. New applications must be made on the approved PHRF-NE form located at www.phrfne.org. Handicaps must be reviewed and recertified annually. The renewal process is initiated by the fleet handicapper each spring. An application for handicap will not be processed until all fleet dues and PHRF-NE fees have been paid. A valid PHRF-NE handicap symbolizes a commitment to fair play and sportsmanship on the

Valid PHRF-NE handicaps are listed at www.phrfne.org by owner, boat type, and boat name.

Current dated and certified Unofficial PHRF-NE handicaps are also valid PHRF-NE handicaps.

a valid unofficial handicap may not be allowed to participate in offshore regattas where the Notice of Race (NOR) requires

The increasing number of new 30-40 foot yachts designed as daysailers, such as the J100, that have competed or wish to compete with unofficial handicaps in PHRF-NE events was discussed in November 2006 by the PHRF-NE Board of Governors. The discussion ended with suggestion that 2007 NORs require ISAF/ORC Category 5, instead of Cat 4, but further state that ISAF/ORC Cat 4 is highly recommended. NORs that require Category 5 instead Cat 4 permit yachts with unofficial handicaps to race.

Indeed, the 2007 PHRF-NE Championships will allow ISAF/ORC Cat 5 yachts, and the Massachusetts Bay will suggest that NORs in sanctioned events require Cat 5. As always, it will be the regatta organizers and race committees, not GMORA or PHRF-NE, who will ultimately determine which vachts are allowed to race.



The PHRF handicapping formula helps level the playing field so that all types of boats - from racing sport boats to heavy-displacement cruisers and everything in between - can compete

GMORA suggests strongly that regatta sponsors allow only yachts with valid PHRF-NE handicaps to participate in GMORA sanctioned events.

GMORA will score only those yachts with valid PHRF-NE handicaps in its Overall, Western, Central, and Eastern season series.

#### What is meant by the expression "Unofficial PHRF-NE Handicap?"

Unofficial handicaps are those given to yachts that do not conform to ISAF/ORC Category 4 safety regulations. This usually means that the yachts are not of the racer/cruiser type, do not have pulpits, stanchions, or lifelines, have sparse accommodations below, and do not have in-board auxiliary power.

Most daysailer and one-design yachts do not conform to ISAF/ORC Category 4, and their PHRF-NE rating certificates carry the "U" prefix to the handicap. Accordingly, yachts with

#### What is meant by the expression "ISAF/ORC Category 5 Regulations?"

Category 5 Regulations are intended for use in short races, close to shore in relatively warm waters where adequate shelter and/or effective rescue is available all along the course, held in daylight

Category 4 Regulations do not specify that adequate shelter and/or effective rescue should be available along the racecourse.

GMORA recommends that sponsors of GMORA sanctioned regattas, where Category 5 conditions are likely top exist, appropriately alter their NORs so that yachts with unofficial handicaps may race. Details of Category 4 and 5 regulations may be found under ISAF Offshore Special Regulations Appendix J at:

www.sailing.org/offshore/2006/OSR2006.

#### What is meant by the expression "Provisional" PHRF-NE certificate?

Provisional rating certificates are issued by the Gulf of Maine (GOM) Fleet handicapper. They are primarily for yachts that have applications for valid PHRF-NE handicaps undergoing review and processing by the PHRF-NE handicapper. Provisional certificates are issued for a seven-day period, and they are ordinarily not renewable during a given season. To promote participation in GMORA racing, provisional rating certificates may also be issued on a non-renewable, oneregatta, seven-day basis, to novice racers. A novice racer is defined as someone who has never held a PHRF-NE certificate or has not held a PHRF-NE certificate in the past five vears.

Provisional GOM handicap certificates are not valid PHRF-NE certificates. They are a service provided to GMORA members



Wavelengthstudios.com/Andrew Sims

The crew of Revolution II in action during the PHRF New Englands.

# Performance Handicap Racing Formula

New England (PHRF-NE) Gulf of Maine Fleet

The task of handicapping for the PHRF-NE Gulf of Maine (GOM) fleet is a function of the Gulf of Maine Ocean Racing Association (GMORA). Dr. Charles Hawley is the PHRF-NE-GOM Fleet handicapper. Most sponsors of GMORA sanctioned events require that competitors possess a valid PHRF-NE certificate. Annual PHRF certification assures that your handicap is up to date and accurate, and PHRF certification of competitors translates to fair play and sportsmanship on the water.

Inquiries regarding PHRF handicapping in Maine should be directed to:

Dr. Charles E. Hawley P.O. Box 4 Southport, ME 04576 (207) 633-2774, FAX (207) 633-2813

Email: gomphrf@gwi.net

# HERE'S TO ALWAYS HAVING THE WIND AT YOUR BACK

SKELTON Taintor & Abbott

ATTORNEYS AT LAW

207,784,3200

M Neb Stee | RC Box P200 | Adhen, Make #4213-9200 | 1.800/000/5000 | www.nbingd.com



Wavelengthstudios.com/Andrew Sims

#### This racer is hiked way out to keep his boat on an even keel during the Haraseeket Youth Regatta.

only. Acceptance of provisional certificates for racing in GMORA sanctioned regattas is solely the responsibility of regatta race committees.

#### I do not like my handicap! How can I get my PHRF-NE handicap changed?

You can find the details of the appeal process at www.phrfne.org under Handicapping. An appeal is a request to modify an assigned handicap. The appeal must be based upon complete and reliable evidence that suggests that either:

The PHRF-NE handicappers did not have complete or correct data on the boat when the handicap was first assigned, Performance data from racing venues demonstrates that an adjustment of handicap is warranted, or that

There have been unreported modifications to the boat that clearly affect its performance on the racecourse.

The yacht conforms to the intent of the expression: "racing trim."

When citing race results, the appellant should keep in mind that race results that include boats without valid PHRF-NE handicaps are of little value in the appeal. In addition, race results that do not include course length, elapsed times, or corrected times will be difficult for the handicap committee to interpret, and therefore, will under most circumstances be disallowed.

#### What is meant by the expression "racing trim?"

A yacht is handicapped with the assumption that she is in racing trim. Racing trim means a smooth boat bottom and keel that have been wet sanded and are fair. Racing trim also assumes good sails. Credit will not be given for 10- to 20-year-old sails.

Racing trim assumes that extraneous loose "junk" has been removed from the boat as well. A boat in "live-aboard" condition cannot hope to be in racing trim. However, the removal of interior furniture (other than cushions), galley, or cabinetry that is part of the "as-built configuration" upon which the base handicap is based will not be permitted. Of course, the boat must have a good crew, and she must be raced competently.

Appeals of handicaps will not be considered by the handicapping committee if it is perceived that the yacht under appeal does not conform to the intent of the expression "racing trim."

#### What is a base handicap?

A base boat is assumed to in as-built configuration with a 155 percent genoa, a spinnaker/whisker pole length equal to J, a spinnaker width equal to 1.8 times J, a spinnaker height equal to .95 times the square root of I squared plus J squared, and either a folding or feathering propeller on an exposed shaft, a two bladed solid propeller in an aperture, or an outboard motor. IMS sail definitions apply, particularly with respect to mainsail girths.

Sprit boats will be handicapped in the configuration shown on the application. Because of the performance record of some performance boats that race in PHRF-NE fleets, it has been and may be necessary to adjust base handicaps even though the sails, rig, hull, appendages, and interior have not changed.

# Is it possible to have a rating certificate for more than one sail configuration?

No. PHRF-NE requires that a boat may maintain only one valid PHRF certificate at a time and may make only one cer-

tificate change in that certificate during the course of a season. Each sail in the declared inventory may be replaced once during a season. Changes to sails, rig, hull, appendages or interior during the sailing season must be reported to the fleet handicapper and PHRF-NE at the time they are made. Unreported changes to a yacht may invalidate your certificate.

## What are the requirements for the Recreational Handicap?

Above-deck roller furling with the head and tack of a true cruising sail attached to the drum and swivel are required. No exotic sail materials are allowed. Polyester (Dacron and Pentex) and Mylar are allowed in the working sails and nylon in the spinnaker. Kevlar, Technora, Spectra, Vectran etc. (high modulus fibers) in the working sails and polyester in the spinnaker are not allowed. Two jibs are allowed, one with an LP

Two jibs are allowed, one with an LP of 110 percent or less and one with an LP over 110 percent. One nylon spinnaker is allowed. If you have a boat that is already handicapped in the above conditions, such as the one-design J/105, you are not eligible for this credit as it is already taken into account. Likewise, if you remove the roller furling, or make any other change in the boat that is already

incorporated into the handicap, the boat will be subject to an appropriate handicap adjustment.

## Speaking of the J/105, why do they seem to have so many different handicaps?

J/105 handicapping is complicated by several possible sail configurations. The J/105 base handicap of 81 assumes a 150 percent genoa, the jumbo 110-square-meter spinnaker, and the deep keel.

The One Design configuration is a roller-furling 100 percent jib and the 89-square-meter spinnaker.

The following is a table (www.phrfne.org) that shows J/105 handicaps for various sail configurations:

The shoal draft model receives nine seconds per mile credit on both racing and cruising handicaps.

Removal of the furling gear will result in a handicap penalty.

#### Do I get credit for an asymmetrical spinnaker?

Yes and no. If the asymmetric spinnaker is the only spinnaker on the boat, and it is tacked to the bow without a spinnaker pole, there is a nine-second-per-mile credit. If it is tacked to the bow, then the spinnaker pole length on the application must be noted as either NONE or 0. If it is not so noted, it will be assumed that the sail is tacked to a standard pole and no credit will be given. If there are both symmetric and asymmetric spinnakers in the inventory that are tacked to a spinnaker pole there is a six-second penalty. If the asymmetric spinnaker is tacked to the bow, and if it is no wider than the symmetric spinnaker, then there is no handi-

# How do measurement based IRC allowances compare with performance based PHRF-NE allowances when racing?

The following IRC/PHRF comparisons are of IRC (TCC) handicaps, time on distance (TOD) PHRF handicaps converted from time on time (TOT by the formula (650/IRC) – 555, and actual 2005-2006 Racing PHRF-NE handicaps for some members of the Gulf of Maine Fleet (GOM).

Boat	Name *Sistership to	IRC	Calculated PHRF	PHRF-NE
Alerion 28	*Genevieve	0.895	171	U165
Concordia 47	*Synergy III	1.214	-21	-12
Center Hbr 31	*Nipantuck	0.954	126	U171
IMX 45	Cybele	1.167	2	15
J/100	Tern	1.028	77	90
J/105	Sidewinder	1.019	83	90
J/109	*Arion's Ride	1.024	80	81
J/130	*Emotional Rescue	1.14	15	24
J/35	*Whiplash	1.035	75	72
J/42	Merlin	1.027	64	81
J/44	*Abracadabra	1.104	34	36
Morris 454	Firefly	1.162	4	27
Mumm 36	*Pain Killer	1.098	37	42
N/M 40	Shamrock Sensation	1.080	47	42
Open 50	Artforms	1.451	-107	-63
Santana 35	Gold Rush	0.975	112	120
Hinckley SW	Pequot	1.093	40	24
Taylor 41	Sheerness	1.098	37	45
Taylor 42	Hot Numbers	1.067	54	46

cap adjustment.

## What are the differences between the racing and cruising handicaps?

The difference is 12 seconds for a masthead rig, 6 seconds for a true fractional rig, and nine seconds for 15/16ths rigs and fractional rigs with masthead spinnakers. There is no adjustment for catboat rigs. This difference is not intended to fully account for the speed difference between a spinnaker and a non-spinnaker boat.

No free flying sails are allowed with the cruising handicap.

#### Most PHRF racing in the Gulf of Maine has employed time on distance (TOD), seconds per mile, handicap allowances. What is meant by the expression time on time (TOT), seconds per hour, allowances?

The reasoning behind using TOT is that, with TOD, smaller boats are at a disadvantage if the race is slow or if the time allowance doesn't account for the changing conditions of the race (tide, wind, seas, etc.). With the TOT method, the allowance at any point in the race can be affected by a change of conditions later in the race. It has been found to tighten corrected time finishes when there is a very large handicap spread in a class or if the race conditions are variable.

The major advantage of TOD is that is simple and you can tell exactly where you stand at any point in the race.

For more information about PHRF-NE, please consult: <a href="https://www.phrfne.org">www.phrfne.org</a>.



Wavelengthstudios.com/Andrew Sims

# Want a ride? Tips on landing and keeping a crew slot

You don't need a lot of experience to crew on a racing sail-boat. While newbies probably won't crew on the hottest, fastest race rocket right away, most skippers place a lot of value on reliability, enthusiasm, a positive attitude, and willingness to learn. Many skippers are happy to have a few new sailors on board because it's easier to teach them how to do things the way they (the skippers) want them done.

#### Finding a slot

The first step is to see what's out there in terms of boats needing crew. Crew-match forums and classified ads are a good place to start. Points East Magazine (www.pointseast.com) hosts a crew-match party every spring, and publishes and posts ads by both skippers and potential crew in its magazine and on its web site. Sailing Anarchy (www.sailinganarchy.com) has a Crew Pool forum with the slogan "Come here to find a body. Or donate yours." The Gulf of Maine Racing Association (www.gmora.org) also hosts a crew pool forum. And you can go down to the local club the evening of its weekly "beer can race," hang out on the dock, and ask around to see who needs crew. Chances are you'll find a ride, and it might just turn into a regular crew slot. When talking with skippers, be realistic about the commitment involved in a season of racing. A boat that actively campaigns the Gulf of Maine circuit will be racing almost every weekend from early June through late August. In many cases, you will also need to contribute your share of expenses for food and, if the boat goes to out-of-town regattas, lodging. It's important to establish a mutual understanding of these details ahead of time.

Once you've landed a crew slot, there are a few ground

rules that apply to just about everyone:

**Show up on time and ready to go.** Nothing is more frustrating to a skipper than lining up crew only to have no shows on race day because of a rainy weather forecast or some last-minute change in plans. Honor your commitment.

**Be in shape and able to contribute** both physically and mentally. In general terms, this means showing up awake, alert, and sober.

**Bring only what you need in terms of gear.** Few boats provide rain gear and outerwear, so you need to bring your own. But there's no need to bring a week's worth of clothing and other items for an afternoon of racing.

**If you're a rookie, listen** to those with more knowledge and experience. Experienced people should **help** the rookies advance along the learning curve.

Communications dynamics vary among boats. It helps to know the ground rules ahead of time. On some boats, racetime conversation is limited to racing matters, and idle chatter on topics like politics, work, or Hollywood gossip is a distraction. Dialogue on other boats is more casual. I've crewed for a skipper who wanted each command or comment repeated to ensure understanding. I've also crewed with a guy who shared every thought he had about the wind, current, sail trim, and boat speed with little expectation of a response to each of his verbal brain dumps. Both of these guys were

CREW, continued on Page 41

# First-time racers? Some tips for new skippers

Editor's note: Some people are reluctant to try racing because they are not familiar with racing rules. While a good understanding of the rules is important, they're not rocket science. While the US Sailing's Racing Rules of Sailing might seem intimidating to someone who hasn't spent a lot of time on the race course, only a few basic rules come into play with any regularity.

US Sailing provides this summary of the basic rules that all new skippers should know. The words and phrases in italics are common racing terms that you need to know. The corresponding rules are in **bold** type. More details, including video clips and links to key parts of the rule book, are at www.sailingcourse.com/racing\_rules.htm.

Three guiding principles underlie the Racing Rules. All competitors are expected to compete within the framework of sportsmanship, fair sailing, and helping those in danger. If

you're new to racing, you only need to know 10 basic rules that will handle most situations you'll encounter on the race-course. As you gain more experience, you'll learn more about the subtleties and limitations of these and other rules.

When boats approach each other on opposite tacks, the boat on port tack shall keep clear of the boat on starboard tack (Racing Rule 10). The port-tack boat keeps clear, if the starboard-tack boat does not have to change course to avoid a collision. If your boom is on the starboard (right) side, you are

on port tack; if it's on the port (left) side, you are on starboard tack.

When boats are on the *same tack* and *overlap* each other, the *windward* boat shall *keep clear* of the *leeward boat* (**Racing Rule 11**). If your boom is on the side next to the other boat, you are the *windward* boat.

When boats are on the *same tack* and don't overlap each other, a boat that is overtaking from behind shall *keep clear* of the boat that is *clear ahead* (**Racing Rule 12**). It must change course to avoid running into the back of the other boat. If the boat from behind continues to overtake the other boat and they become *overlapped* then the windward-leeward

rule switches on where the *windward* boat must keep clear of the *leeward* boat.

When you're tacking, you must *keep clear* of all other boats from the time your boat passes head to wind until it is on a close-hauled course (**Racing Rule 13**). Look around before you tack to make sure you don't tack in the way of another boat.

You must avoid contact with other boats if possible. Even if your boat has right of way you must avoid contact, but you don't need to act until it becomes obvious that the other boat is not going to keep clear (**Racing Rule 14**).

Whenever you are the right-of-way boat and want to turn, you must give the other boat a chance to *keep clear* (**Racing Rule 16**). You cannot make an abrupt turn that allows no opportunity for the other boat to stay out of your way.

When a boat reaches the two-length zone from a mark or

obstruction, it has to give boats overlapped inside it room to round or pass the obstruction (Racing Rule 18). The outer edge of this zone is two boat lengths from the mark. This Rule is switched off at starting marks, and between boats on opposite tacks at the windward mark.

If you cross the starting line too soon before the start, you have to go back behind the line and start again. While going back, you have to *keep clear* of all boats that have started (**Racing Rule 20**). If a boat starts prematurely, the race committee boat displays the code flag for the letter "X"



Wavelengthstudios.com/Andrew Sims

Knowing the rules is critical when you're racing side by side in tight quarters.

and sounds one blast of a horn.

If you hit a *mark* while *racing*, you must take a penalty as soon as possible by making one turn, including one tack and one jibe (or one jibe and one tack) (**Racing Rule 31**). While doing your One-Turn Penalty, you must stay clear of all other boats.

If you foul another boat while *racing*, you must take a penalty as soon as possible by making two turns in the same direction, including two tacks and two jibes (**Racing Rule 44**). While doing your Two-Turns Penalty, you must stay clear of all other boats.

#### CREW, continued from Page 40

great to sail with. Regardless of the dynamics, good communication on the boat is key to strong race performance.

**Be willing to do any job you are assigned.** Perhaps you're experienced and had your heart set on foredeck, but the skipper needs you to trim main. Just do your job as best you can and remember – you're part of a team.

Volunteer to help with deliveries and pre-season boat prep. Getting the boat race-ready and moving it to and from regatta venues is a ton of work. Willingness to pitch in with the more mundane tasks is a big part of being good crew.

**Gender-specific tips:** Guys, please be respectful of female crewmembers – being your galley slave is typically not their job. And ladies, accept help from the guys if you don't have the brute strength to grind the genoa winch in heavy air.

**Be fun and have fun.** Regardless of your race performance, the idea is to maintain a positive attitude and have a good time.

- Gail Rice

## 2006 PHRF-NE Gulf of Maine Fleet

FIRST	LAST	YACHT	RACTOT	CRUTOT
Dean	Abramson	Mariah	252	264
Maine Maritime	Academy	Sheerness	45	57
Dana	Anderson	Vision Quest	93	99
William	Anderson	Black Pearl	156	174
Justin	Andrus			
Bill	Aronson	Hair Of The Dog	90	96
Barney J.	Baker	Libra	165	177
Mark	Balles	Endeavor	129	138
Richard	Barclay	Odyssey	159	174
Charles	Barker	Antre Express	U168	U171
Rick	Barry	Swimmer	180	192
Henry P.	Becton	Ariana	132	144
Henry R.	Becton Jr.	Otter	117	129
John	Bell	Starlight	90	93
A Jan	Berlin	Aria	117	192
Robert	Berube	Synergy	159	165
Daniel	Bienkowski	Morning Star	33	48
Gary P.	Blenlhorn	Illusion	108	120
Brooklin	Boat Yard	Vortex	81	81
John	Bradford	Pi-Mut Iv	78	90
David	Braun	Windhunter	213	225
Joel	Brightman	Felicitas	114	129
Philip	Brooks	Fiddler	189	204
Robert	Brown	Four Sun's	102	114
John	Butler	Galatea	138	153
Gregory	Carroll	Thunderhead	75 4.74	90
Marshall	Cary	Adventure Laurentide	171 96	183 108
Mike Bruce	Casey Cassidy	Emotional Rescue	24	33
Peter	Cassidy Chandler	Lord George	183	186
Bevin V.	Cherot	Pequot	54	66
Mark S.	Cluett	Merlin	81	81
Mylan/Maya	Cohen	Arion's Ride	72	81
Kenneth H.	Colburn	Witch	90	96
Kenneth H.	Colburn	Ghost	90	96
Ronald	Cole	Artemis	180	183
Doug	Coleman	Skittery Gusset	84	96
Peter	Colesworthy	Nirvana	153	165
Jim/Annie	Connell	Sans Serif	141	147
Michael	Cook	Ghost	84	90
Michael	Cook	Flirt	165	171
Tony	Correa	Noeta	249	261
James	Coughlin	Mainstay lii	177	192
Jim	Coughlin	M 4	U156	U171
Gary John	Criania	Black Bear	141 195	147 201
Philip M.	Crispin Cronin	Perspective Common Sense	78	93
Bruce	Cumback	Wiley	72	84
Allerton	Cushman, Jr.	Gusto	99	111
Jim	Cuthbertson	Rumpleteazer	168	174
Jim	Cuthbertson	Peregrine	84	96
Endicott	Davison	Winsome	96	111
Daniel	Dennett	Xanthippe	81	96
George	Denny	Restive	39	54
Johnathan	Dietz	Esparta	156	168
Spencer	Drake	Avalon	108	120
Pierre	Du Pont	Miss Marvelous	90	102
Steve	Duguay	Hornpipe	216	228
Sean	Dunfey	Phoenix	88	94
Jeffery	Dunn	Hopscotch	90	102
William	Eacho	Atlantica	105	120
Chris	Eisenhart	Downtown	144	156
Geoff	Emanuel	Commotion Ranchee	135 204	147 216
James M.	Facey Feeney	Banshee Pilgrim	213	216
Ted	Fisher	Pegasus	117	123
John	Fitzgerald	Moondance	126	129
	- U	<del>-</del>	-	

John   Forsgren   Spring Fide   78   84   84   99   99   5cott   Fox   Charsar   102   108   99   5cott   Fox   Charsar   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   108   102   102   102   102   108   102   10	FIRST	LAST	YACHT	RACTOT	CRUTOT
Soott   Fox	John	Forsgren	Spring Tide	78	84
William	Win	Fowler			
Peter   Garcia   Michael   Giles   Apogee   165   177   Thomas   Gill   See Smoke   U90   U102   U202   U107   U					
Michael         Giles         Apage         155         177           Thomas         Gill         Sea Smoke         U90         U102           Clifford         Goodall         Maveric         213         225           Joseph         Grant         Fair Lead         153         168           Robert         Grant         Imperior         162         177           Eink D.W.         Greven         The Phoenix         138         141           John N.         Gillon         Wendige         123         135           Bruca         Halland         Wendige         123         135           Bruca         Habamilin         Rubines         144         156           Richard W.         Halle         Bandito         3         43           Richard Hall         Agees         96         108           Meter         Hallett         Scaramouche         60         66           Richard A.         Hallett         The Wagon         99         114           John K.         Hanson Jr.         Ferry Jubilee         210         222           George         Hasetton         Hillino         78         93           Ra			Persistence	117	123
Thomas			4	105	4 7 7
Direction					
Joseph   Grant   Fair Lead   153   158   158   Robert   Grant   Tempest   162   177   177   178   17					
Robert					
Erik D.W.         Greven         The Phoenix         138         141           John N         Grillo         Wendigo         123         135           Gordon A.         Haaland         Eventyr         81         81           Bruce         Haamlin         Ruthless         144         156           Richard W.         Hale         Bandito         3         +3           Richard Hall         Agnes         96         108           Richard Hall         Agnes         96         108           Merle         Hallett         Scaramouche         60         66           Richard A.         Hallett         The Wagon         99         114           John K.         Hanson Jr.         Ferry Jubilee         210         222           George         Hasetton         Hillho         78         93           Raymond         Hawkins         Raylier         168         174           Braymond					
John N   Grillo   Wendigo   123   135     Bruce   Haamiln   Ruthiess   144   156     Richard W   Hale   Bandito   3   43     Richard W   Hale   Bandito   3   43     Richard Hall   Snapdragon   225   234     Peter   Hall   Snapdragon   225   234     Merie   Hallett   Scaramouche   60   66     Merie   Hallett   Scaramouche   60   66     Merie   Hallett   The Wagon   99   114     John K   Hanson Jr.   Ferry Jubilee   210   222     George   Haselton   Hilliho   78   93     Raymond   Hawkins   Hawk's Nest   141   153     Robo   Hawler   Raininer   168   174     Dr. Charles   Hawley   Raininer   168   174     Dr. Charles   Hawley   Raininer   168   174     Dr. Charles   Heidman   Flying Clipper   75   81     Nat, Weld   Henshaw   Beagle   72   84     Harry   Hepburn   COURE   159   162     Robert   Hickok   Rrodigal   87   96     Albert   Hollsch   Hollsch   122   135     David   Hollnes   Free Spirit   114   129     David   Hollnes   Free Spirit   114   129     David   Hollchausen   Amandi   126   132     David   Hollnes   Free Spirit   114   129     Michael   Iaconeta   Night Shift   117   123     Kris   Jennings   Milady   159   171     Robert   Johnston   San-Sculottes   51   60     Michael   Iaconeta   Night Shift   117   123     Kris   Jennings   Milady   159   171     Robert   Keen   Antares   207   222     Alain   Joseph   Hol Numbers   46   58     Milady   159   171   180     Robert   Keen   Antares   207   222     Alain   Joseph   Hol Numbers   46   58     Robert   Keen   Antares   207   222     Alain   Joseph   Hol Numbers   46   58     Robert   Keen   Antares   207   222     Alain   Joseph   Hol Numbers   46   58     Robert   Keen   Antares   207   222     Alain   Joseph   Hol Numbers   46   58     Robert   Keen   Antares   207   222     Alain   Antares   207   222     Alain   Antares   207   222     Alain   Antares   207   222     Alain   Antares   207   228     Alain   Antares   207   229     Alain   Kreeper   Far Out   75     Alain   Robert   Robert   Robert   Robert   Robert   Robert   Robert   Robe					
Gordon A.   Haaland   Eventyr   81   81   81   81   81   81   81   8					
Richard W.         Hale         Bandito         3         43           Richard         Hall         Agnes         96         108           Peter         Hall         Agnes         96         108           Merle         Hallett         The Wagon         99         114           John K.         Hanson Jr.         Ferry Jubilee         210         222           George         Haselton         Hillho         78         93           Raymond         Hawkins         Hawkins         141         153           Rob         Hawkey         Rainier         168         174           Por. Charles         Hawkey         Rainier         168         174           Rene/Diane         Hebert         Clover         231         246           Marcus         Hellner         Hold n         54         72           Rene/Diane         Hebert         Clover         231         246           Marcus         Hellner         Hold n         54         72           Peter K.         Heldman         Flying Clipper         75         81           Harry         Hepburn         CCURE         159         162					
Richard         Hall         Snapdragon         225         234           Peter         Hallett         Scaramouche         60         66           Merle         Hallett         The Wagon         99         114           John K.         Hanson Jr.         Ferry Jubilee         210         222           George         Haselton         Hillho         78         93           Raymond         Hawkins         Hawk's Nest         141         153           Rob         Hawley         Rainier         168         174           Dr. Charles         Hawley         Rene/Diane         168         174           Pot. Charles         Hawley         Rene/Diane         168         174           Marcus         Hellner         Ho' An         54         72         88         18	Bruce	Haamlin	Ruthless	144	156
Peter	Richard W.		Bandito		
Merie   Hallett   The Wagon   99   114     John K.   Hanson Jr.   Ferry Jubilee   210   222     George   Haselton   Hillhon   78   93     Raymond   Hawkins   Hawk's Nest   141   153     Rob   Hawley   Rainier   168   174     Dr. Charles   Hawley     Rene/Diane   Hebert   Clover   231   246     Marcus   Heilner   Hol An   54   72     Peter K.   Heldman   Flying Clipper   75   81     Mat/Weld   Henshaw   Beegle   72   84     Harry   Hepburn   CCURE   159   162     Robert   Hodsdon   Sea Jab   132   135     Albert   Hodsdon   Sea Jab   132   135     Albert   Hodsdon   Sea Jab   132   135     Mein   Holtzhausen   Amarzi   126   132     David   Holmes   Free Spirit   114   129     Michael   Iaconeta   Night Shift   117   123     Michael   Iaconeta   Night Shift   117   123     Michael   Iaconeta   Night Shift   117   123     Albert   Johnston   Sans-Culottes   51   60     Alian   Joseph   Hot Numbers   46   58     Robert   Keefer   Antares   207   222     Michael   Logan   Machine   72   84     Robert   Keefer   Antares   207   222     Alian   Joseph   Hot Numbers   46   58     Robert   Keefer   Antares   207   222     Alian   Joseph   Hot Numbers   46   58     Robert   Keefer   Antares   207   222     Alian   Joseph   Hot Numbers   46   58     Robert   Keefer   Antares   207   222     Alian   Joseph   Hot Numbers   46   58     Sol   Kellogg   Abacia   105   117     Fred   Kellogg   Aba	Richard				
Richard A.         Hallett         The Wagon         99         114           John K.         Hanson Jr.         Ferry Jubilee         210         222           George         Haselton         Hillho         78         93           Raymond         Hawkey         Rainier         168         174           Dr. Charles         Hawley         Rainier         168         174           Robert         Hebert         Clover         231         246           Marcus         Heliner         Hol An         54         72           Peter K.         Heldman         Flying Cilipper         75         81           At Yang         Helman         Flying Cilipper         75         81           Harry         Hepburn         CCURE         159         162           Robert         Holkowel         Prodigal         87         96           Albert         Hodsoon         Sea Jab         132         135					
John K.					
George					
Raymond   Hawkins   Hawk's Nest   141   153   154   156   174   157   158   159					
Rob         Hawley         Rainier         168         174           Por. Charles         Hawley         Rene/Diane         Hebert         Clover         231         246           Marcus         Heblert         Clover         231         246         72           Peter K.         Heidman         Flying Clipper         75         81           Nat, Weld         Henshaw         Beagle         72         84           Harry         Hepburn         CURE         159         162           Robert         Hickok         Prodigal         87         96           Albert         Hickok         Prodigal         87         96           Ken         Holdsdon         Sea Jab         132         135           Ken         Hollowell         Fortitude         153         168           David         Holmes         Free Spirit         114         129           Neil         Holtzhausen         Amanzi         126         132           David F.         Hoy         Wyanoke         213         126           H.Dexter         Hyland III         Patric         123         123           Kris         Jenings         Milady					
Dr. Charles   Hawley   Rene/Diane   Hebert   Clover   231   246	3				
Renc/Diane         Hebert         Clover         231         246           Marcus         Heilner         Hoi An         54         72           Peter K.         Heilner         Hoi An         54         72           Peter K.         Heldman         Flying Clipper         75         81           Nat, Weld         Henshaw         Beagle         72         84           Harry         Hepburn         CCURE         159         162           Robert         Hickok         Prodigal         87         96           Albert         Holdsdon         Sea Jab         132         135           Ken         Hollowell         Fortitude         153         168           David         Holmes         Free Spirit         114         129           Neil         Holtzhausen         Amanzi         126         132           David F.         Hoy         Wyanoke         213         225           H.Dexter         Hyland III         Patriot         122         126           Mish         Jan         Mish         Mish         117         123           Wiris         Jenings         Misat         117         123 <th< td=""><td></td><td></td><td>Kanner</td><td>108</td><td>114</td></th<>			Kanner	108	114
Marcus			Clover	231	246
Nat/Weld	-				
Nat/Weld					
Harry   Hepburn   CCURE   159   162   Robert   Hickok   Prodigal   87   96   Albert   Hodsdon   Sea Jab   132   135   188   David   Hollowell   Fortitude   153   168   David   Hollowell   Fortitude   153   168   David   Hollowell   Fortitude   153   168   David   Hollowell   Free Spirit   114   129   Neil   Holtzhausen   Amanzi   126   132   David F.   Hoy   Wyanoke   213   225   H.Dexter   Hyland III   Patriot   123   126   Michael   Iaconeta   Night Shift   117   123   126   Michael   Iaconeta   Night Shift   117   123   Miss   Jennings   Milady   159   171   Robert   Johnston   Sans-Culottes   51   60   Robert L.   Johnstone   Term   90   102   Alan   Joseph   Hot Numbers   46   58   Christine   Kean   Soulmate   72   84   Robert   Keefer   Antares   207   222   Burt H.   Keenan   Acadia   123   123   123   Robert   Kellogg   Arbacia   123   123   123   Robo   Kellogg   Arbacia   105   117   Fred   Kellogg   Arbacia   105   117   Fred   Kellogg   Arbacia   105   117   Fred   Kellogg   Arbacia   105   117   Robert   Ketchum   Spanking Machine   57   63   Robo   Kellogg   Arbacia   105   117   183   Robo   Knowles   Sold   90   102   128   Robo   Knowles   Sold   90   102   141   Graciela   Lamy   Five   177   183   Richard   Ladd   Balance   129   141   Graciela   Lamy   Five   177   183   Richard   Ledwith, Jr   Fiesta   102   114   Charles   Leighton   Whitecap   66   78   Robo	Nat/Weld	Henshaw	Beagle	72	84
Albert         Hodsdon         Sea Jab         132         135           Ken         Hollowell         Fortitude         153         168           David         Holmes         Free Spirit         114         129           Neil         Holtzhausen         Amanzi         126         132           David F.         Hoy         Wyanoke         213         225           H.Dexter         Hyland III         Patriot         123         126           Michael         laconeta         Night Shift         117         123           Kris         Jennings         Milady         159         171           Robert         Johnston         Sans-Culottes         51         60           Robert L.         Johnstone         Term         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keefer         Antares         207         222           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Arbaria         60         72	Harry	Hepburn		159	162
Ken         Hollowell         Fortitude         153         168           David         Holmes         Free Spirit         114         129           Neil         Holtzhausen         Amanzi         126         132           David F.         Hoy         Wyanoke         213         225           H.Dexter         Hyland III         Patriot         123         126           Michael         Iaconeta         Night Shift         117         123           Kris         Jennings         Milady         159         171           Robert         Johnston         Sans-Culottes         51         60           Robert L.         Johnstone         Tern         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keefer         Antares         207         222           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117					
David         Holmes         Free Spirit         114         129           Neil         Hotzhausen         Amanzi         126         132           David F.         Hoy         Wyanoke         213         225           H.Dexter         Hyland III         Patriot         123         126           Michael         Iaconeta         Night Shift         117         123           Kris         Jennings         Milady         159         171           Robert         Johnston         Sans-Culottes         51         60           Robert L.         Johnstone         Tern         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keefer         Antares         207         222         84           Robert M. Keefer         Antares         207         222         But H.         Keena         Asoulmate         72         84           Robert M. Keefer         Antares         207         222         But H.         Keefer         Antares         207         222         But H.         Recture         Recture					
Neil					
David F.         Hoy         Wyanoke         213         225           H.Dexter         Hyland III         Patriot         123         126           Michael         laconeta         Night Shift         117         123           Kris         Jennings         Milady         159         171           Robert         Johnston         Sans-Culottes         51         60           Robert L.         Johnstone         Tern         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keefer         Antares         207         222           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Kethum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96					
H.Dexter					
Michael         laconeta         Night Shift         117         123           Kris         Jennings         Milady         159         171           Robert         Johnston         Sans-Culoites         51         60           Robert L.         Johnstone         Tern         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keefer         Antares         207         222           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Keloog         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jonathan D.         Knowles         For Sale         87         96           Jonathan D.         Knowles         For Sale         87         96					
Kris         Jennings         Milady         159         171           Robert         Johnston         Sans-Culottes         51         60           Robert L.         Johnstone         Tern         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keen         Soulmate         72         84           Robert         Keefer         Antares         207         222           But H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         For Sale         87         96		•			
Robert         Johnston         Sans-Culottes         51         60           Robert L.         Johnstone         Tern         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keen         Arbacia         123         123           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Arbacia         105         117           Richard         Ketchum         Spanking Machine         57         63           Winston </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Robert L.         Johnstone         Tern         90         102           Alan         Joseph         Hot Numbers         46         58           Christine         Kean         Soulmate         72         84           Robert         Keefer         Antares         207         222           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jonathan D.         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela<					
Christine         Kean         Soulmate         72         84           Robert         Keefer         Antares         207         222           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         For Sale         87         96           Lee         Krow         Momentum         12         24	Robert L.				
Robert         Keefer         Antares         207         222           Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George	Alan	Joseph	Hot Numbers	46	58
Burt H.         Keenan         Acadia         123         123           Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter	Christine	Kean	Soulmate		
Bob         Kellogg         Tamarack         60         72           Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         For Out         75         87           Lee         Krow         Momentum         12         24           Haven					
Bob         Kellogg         Arbacia         105         117           Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroweles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher <td></td> <td></td> <td></td> <td></td> <td></td>					
Fred         Kellogg         Nellie Jane         270         285           Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186     <					
Richard         Ketchum         Spanking Machine         57         63           Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96					
Winston         Kipp         Growl Tiger         84         96           Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129					
Jon         Knowles         For Sale         87         96           Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192					
Jonathan D.         Knowles         Sold         90         102           Hal         Kroeger         Far Out         75         87           Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198 <t< td=""><td></td><td></td><td>_</td><td></td><td></td></t<>			_		
Hal       Kroeger       Far Out       75       87         Lee       Krow       Momentum       12       24         Haven       Ladd       Balance       129       141         Graciela       Lamy       Five       177       183         Richard W.       Ledwith, Jr       Fiesta       102       114         Charles       Leghton       Whitecap       66       78         George       Lewis       Rose       90       102         Peter       Lloyd       Snapdragon li       129       141         Christopher       Loader       Southern Cross       123       132         Seton, Alexander       Loenard, Schoettle       Heretic       171       186         Donald       Logan       Keemah       90       96         Douglas       Louison       Gloria       129       129         James T.       Lowery       My Pal       180       192         Gus       Mac Donald       Panacea       186       198         Ward D.       Mac Kenzie       Genevieve       U168       U177         Russell B.       Mac Pherson       Sea Robin       177       189      <					
Lee         Krow         Momentum         12         24           Haven         Ladd         Balance         129         141           Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189					
Graciela         Lamy         Five         177         183           Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201	Lee		Momentum		
Richard W.         Ledwith, Jr         Fiesta         102         114           Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon li         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213	Haven	Ladd	Balance	129	141
Charles         Leighton         Whitecap         66         78           George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon Ii         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213	Graciela	•	Five		
George         Lewis         Rose         90         102           Peter         Lloyd         Snapdragon Ii         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213					
Peter         Lloyd         Snapdragon Ii         129         141           Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213			•		
Christopher         Loader         Southern Cross         123         132           Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213					
Seton, Alexander         Loenard, Schoettle         Heretic         171         186           Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213					
Donald         Logan         Keemah         90         96           Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213					
Douglas         Louison         Gloria         129         129           James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213					
James T.         Lowery         My Pal         180         192           Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213					
Gus         Mac Donald         Panacea         186         198           Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213					
Ward D.         Mac Kenzie         Genevieve         U168         U177           Russell B.         Mac Pherson         Sea Robin         177         189           Myles         Mace         Sryward         162         177           Constance B         Madeira         Baleira         201         213		-	-		
Russell B.Mac PhersonSea Robin177189MylesMaceSryward162177Constance BMadeiraBaleira201213					
Constance B Madeira Baleira 201 213					
	Myles	Mace			
Fred Madeira Dawn Treader 126 129					
110	Fred	Madeira	Dawn Treader	126	129

FIRST	LAST	YACHT	RACTOT	CRUTOT
Robert	Manheimer	Tendress	126	132
Doyle/Jim	Marchant	Revo Ocho	45	54
Douglas/Mary	Martin	Wishing Star	123	135
John & Dora	Martin	Skylark	237	249
Andrew	Marvin	Solutions	150	162
James	Mc Kenna	Toor A Loora	186	210
Newton P.S.	Merrill	Finesse	81	81
David	Merrill	Ajax	225	240
John	Merrill	Zerlot	126	135
Charles/Judy	Micoleau	Windsong	123	135
Frederick V.	Minson	Cat's Paw	117	129
Charles/Chris	Moore	Northern Muse	171	174
Paul	Morin	S-Cape	117	129
William B.	Morris	Fox	198	204
Tom	Morris	After You	114	123
Cuyler	Morris	Viajero	117	120
Cuyler	Morris	Cary All	93	99
Cuyler	Morris	Cary All	132	135
Randy	Mraz	Aluna	144	156
Sive	Neilan	Aphra Behn	189	192
Ben	Niles	Allure	177	189
P. Andrews	Nixon		117	120
		Kingfisher	111	120
Robert	Norton	Danas	7.5	0.7
David	Nutt	Danza	75	87
Charles E.	O' Brien	Peer Gynt	180	192
Richard	Paine	Faster	126	132
Richard A.	Parent	Beausoleil	75	87
Peter J.	Parker	Tiger Lily	180	192
Peter/David	Parsons	Libertine	159	174
Chris	Paul	Late Night	126	141
Erik	Pedersen	Peregrine	84	93
Paul F.	Perkins	Fling	189	201
Kent	Phelan	Istia	U165	U174
Joan	Pier	Geek	144	156
David	Pierce	Akela	174	183
Jack	Pirozzlo	Skylark	207	222
Douglas C.	Pope	Walkabout	132	138
Peter	Price	Bi Dog Party	12	21
Kenneth	Priest,li	Extra Beat	72	84
Tom	Quinby	Sapphire	132	135
Jonathan	Randall	Snowbird	105	111
Ford	Reiche	Eclipse	168	180
Timothy	Reilley	Athais	198	210
Matthew D.	Reynolds	Wind Game	149	161
Randy	Rice	Rita P	189	192
James	Richter	Bonspeil	84	99
Brion	Rieff	Institution	75	87
David	Rockerfeller	CYBELE	15	30
Thomas	Rodes	Alma	U147	U153
Ed	Rogers	Revolution 2	48	54
Paul K.	Rogers	Canty	147	162
T.R.	Rolfes	Sidewinder	90	96
William	Rooks	Thumper	111	123
Ernie	Rose	Josie P	U174	U174
Douglas	Roth	Old Navy	U270	U276
David	Ruff	Go Dog Go	117	123
Andrew	Sawyer	Straw Hat	87	96
Richard	Schoette	Lena	60	72
Karl	Schoettle	Intuition	75	87
Richard	Schotte	Goshawk	-27	-12
Bruce	Schwab	Ocean Planet	-120	-111
Eric	Schwab	Vigilante	60	72
Winton F.	Scott Jr.	Symmetry	132	144
Ned	Semonite	Black Owl	81	90
David	Sharpe	Antares	48	60
Rick	Simonds	Pain Killer	42	48
Howard	Singer	Marnie	144	159
E. Newbold		Reindeer	24	36
	Smith			
Stockton N.	Smith	Weather Gauge	54	66 153
Wayne C.	Smith	Defiant	141	153

FIRST	LAST	YACHT	RACTOT	CRUTOT
Emerson	Smith	Rogue	108	120
Kaighn	Smith M.D.	Gaylark	102	114
Reginald	Smithwick	Kaos	69	81
John	Somers	Blu	201	198
Jose	Soriano	Aurora	126	135
S.A.	Spencer	Whiplash	72	84
K	Steeves	Shadow	132	147
Richard	Stevens	Honalee	141	153
Richard	Stevenson	Roach Coach	108	120
Kip	Stone	Artforms	-63	-54
Gust	Stringos	Bluebird	177	180
Robert	Stuart	Raka	186	189
Michael B.	Stubbs	Fancy	135	135
Burt	Sturrup	Sora	225	240
Ann	Symington	Anjacaa	48	60
Carvel B.	Tefft	Bangalore	156	168
Robert	Tetrault	Sea Return	111	123
Noel	Tewes	Otter Float	222	237
Tyler	Thims	Rip Curl	132	144
Reid	Thomas	Sea Tao	198	213
James L.	Thomson	Thistle	45	60
Wallace E.	Tobin	Froya	99	111
Mark E.	Tuller	Kanaloa	126	132
Francis (Pat)	Twinem	Jackpot	174	177
Mark	Van Baalen	Ariane	156	168
Lloyd	Van Lunen	Boreas	51	60
Nick	Vanoff	Geranium	99	114
Mark	Waite	Commocean	159	168
George	Warren	Wind Chime	231	246
John Alan	Watson	Sail-Loft	141	156
Arthur K		Too Elusive	21	27
	Watson Jr.		90	99
Joseph Kenneth	Weber	Va Pensiero	84	99 96
	Weg	Afterglow	126	
Neal	Weinstein	Enterprise		141
Dan	Wellehan	Shamrock	114	126
Mark	Werner	Nipantuck	U171	U168
Bernard	Wideman	Gremlin	210	222
Anthony/Matt	Widmnn/Newton	Ranger	108U	114U
R. Glenn	Wiggins	Estrellita	144	159
Richard	Wiken	Gold Rush	120	126
William	Wilkinson	Grey Eagle	129	132
Peter O.	Willauer	Eight Bells	87	87
Bradford	Willauer	Breezing Up	39	51
Patrick	Wilmerding	Firefly	27	42
Patrick	Wilmerding	Morris 42	75	81
Duncan	Wood			
Neil	Woodside	Bijou	210	213
Greg/Jennifer	Yahr	C-C Courage	96	105
1				

#### **Advertisers** Strout's Pont Wharf Company .................9 Wilbur Yachts ......14



Bar Harbor . . . . subtract 22 min.
Bath . . . . add 1 hour
Boothbay Harbor . . . subtract 6 min.
Camden . . . subtract 12 min.
Monhegan Island . . . subtract 13 min.

#### Presented by

# **MARSH**

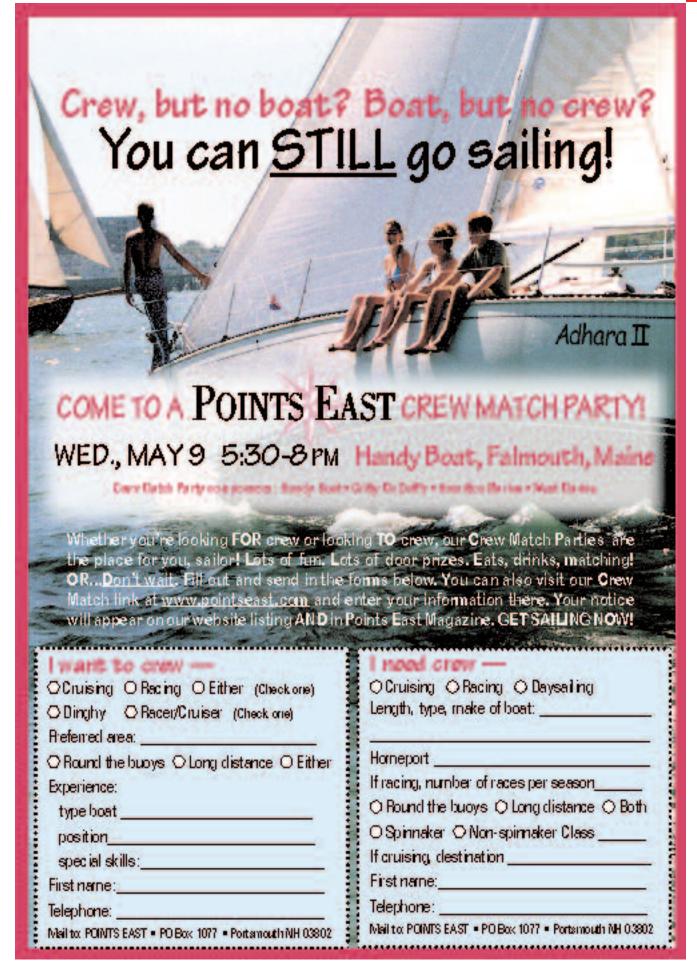


Peter: G.Arndt @ marsh.com

106 Lafayette Street Lower Falls Landing P.O. Box 1137 Yarmouth, ME 04096

207 846 0400 800 820 3151 Fax 207 846 6725

JUN			40.0E DM		C-07 DM					SUST		7.00 414		4:04 DM		7.20 DM	
1	6:12 AM	L		Н	6:07 PM	L	C. 4E DM		1	12:59 AM	Н	7:20 AM	L	1:34 PM	Н	7:32 PM	L
2	12:19 AM		6:48 AM	L	1:03 PM	Н	6:45 PM	L	2	1:45 AM	Н	8:03 AM	L	2:18 PM	Н	8:21 PM	L
3	12:57 AM	Н	7:26 AM	L	1:42 PM	Н	7:25 PM	L	3	2:33 AM	Н	8:48 AM	L	3:04 PM	Н	9:13 PM	L
4	1:37 AM	Н	8:06 AM	L	2:23 PM	Н	8:09 PM	L	4	3:25 AM	Н	9:36 AM	L	3:54 PM	Н	10:09 PM	L
5	2:21 AM	Н	8:49 AM	L	3:07 PM	Н	8:56 PM	L	5	4:21 AM	Н	10:27 AM	L	4:47 PM	Н	11:10 PM	L
6 7	3:08 AM	Н	9:35 AM	L L	3:54 PM	Н	9:48 PM	L	6 7	5:21 AM	Н	11:23 AM	L	5:45 PM	Н	6:49 DM	ш
8	3:59 AM 4:55 AM	H H	10:24 AM 11:16 AM	L	4:44 PM 5:37 PM	H H	10:44 PM 11:45 PM	L L	8	12:15 AM 1:23 AM	L L	6:27 AM 7:37 AM	H H	12:25 PM 1:30 PM	L L	6:48 PM 7:54 PM	H H
9	5:55 AM	H	12:11 PM	Ĺ	6:32 PM	Н	11.45 FW	L	9	2:30 AM	L	8:45 AM	Н	2:36 PM	L	8:58 PM	Н
10	12:48 AM	Ľ	6:57 AM	Н	1:08 PM	Ľ	7:29 PM	Н	10	3:33 AM	L	9:47 AM	H	3:38 PM	L	9:59 PM	Н
11		Ĺ	8:01 AM	Н	2:05 PM	Ĺ	8:25 PM	н		4:29 AM	L	10:43 AM	H	4:34 PM	L	10:53 PM	Н
12	2:53 AM	Ĺ	9:04 AM	H	3:02 PM	Ĺ	9:22 PM	H		5:19 AM	Ĺ	11:32 AM	Н	5:25 PM	Ĺ	11:42 PM	Н
13		L	10:05 AM	Н	3:59 PM	L	10:17 PM	Н	13	6:05 AM	L	12:17 PM	Н.	6:12 PM	L	11.121111	•••
14	4:49 AM	L	11:02 AM	Н	4:54 PM	L	11:11 PM	Н		12:27 AM	Н	6:46 AM	Ľ	12:58 PM	Н	6:56 PM	L
15		L	11:58 AM	Н	5:48 PM	L	11.1111			1:09 AM	Н	7:25 AM	L	1:37 PM	Н	7:38 PM	Ĺ
16	12:04 AM	H	6:35 AM	L	12:51 PM	H	6:41 PM	L		1:49 AM	Н	8:03 AM	Ĺ	2:14 PM	Н	8:19 PM	Ĺ
17		Н	7:27 AM	L	1:43 PM	Н	7:33 PM	L	17	2:30 AM	Н	8:39 AM	L	2:52 PM	Н	9:01 PM	L
18	1:48 AM	Н	8:17 AM	L	2:34 PM	Н	8:26 PM	L		3:11 AM	Н	9:16 AM	L	3:30 PM	Н	9:45 PM	L
19		Н	9:07 AM	L	3:25 PM	Н	9:20 PM	L	19	3:54 AM	Н	9:56 AM	L	4:11 PM	Н	10:32 PM	L
20	3:32 AM	Н	9:57 AM	L	4:16 PM	Н	10:14 PM	L	20	4:42 AM	Н	10:39 AM	L	4:57 PM	Н	11:23 PM	L
21	4:24 AM	Н	10:46 AM	L	5:06 PM	Н	11:10 PM	L	21	5:34 AM	Н	11:28 AM	L	5:48 PM	Н		
22	5:18 AM	Н	11:35 AM	L	5:55 PM	Н			22	12:20 AM	L	6:32 AM	Н	12:22 PM	L	6:43 PM	Н
23	12:06 AM	L	6:13 AM	Н	12:24 PM	L	6:44 PM	Н	23	1:20 AM	L	7:32 AM	Н	1:20 PM	L	7:41 PM	Н
24	1:03 AM	L	7:09 AM	Н	1:13 PM	L	7:33 PM	Н	24	2:18 AM	L	8:31 AM	Н	2:18 PM	L	8:38 PM	Н
25	1:59 AM	L	8:05 AM	Н	2:02 PM	L	8:21 PM	Н	25	3:11 AM	L	9:24 AM	Н	3:12 PM	L	9:30 PM	Н
26	2:51 AM	L	8:59 AM	Н	2:49 PM	L	9:07 PM	Н	26	3:59 AM	L	10:11 AM	Н	4:02 PM	L	10:19 PM	Н
27	3:40 AM	L	9:49 AM	Н	3:35 PM	L	9:51 PM	Н	27	4:43 AM	L	10:55 AM	Н	4:49 PM	L	11:05 PM	Н
28	4:25 AM	L	10:36 AM	Н	4:18 PM	L	10:34 PM	Н	28	5:26 AM	L	11:38 AM	Н	5:36 PM	L	11:51 PM	Н
29	5:06 AM	L	11:19 AM	Н	5:00 PM	L	11:15 PM	Н	29	6:08 AM	L	12:20 PM	Н	6:23 PM	L		
30	5:46 AM	L	11:59 AM	Н	5:41 PM	L	11:55 PM	Н	30	12:37 AM	Н	6:51 AM	L	1:04 PM	Н	7:12 PM	L
																	L
	v								31	1:25 AM	Н	7:35 AM	L	1:49 PM	Н	8:02 PM	_
JUL 1			12:30 PM	ш	6:22 PM						Н	7:35 AIVI	L	1:49 PM	Н	8:02 PW	-
1	6:25 AM	L	12:39 PM	Н	6:22 PM	L	7:05 PM	ı	SEP	TEMBER							
1 2	6:25 AM 12:36 AM	Н	7:05 AM	L	1:19 PM	Н	7:05 PM 7:51 PM	L	SEF	PTEMBER 2:15 AM	Н	8:22 AM	L	2:37 PM	Н	8:55 PM	L
1 2 3	6:25 AM 12:36 AM 1:19 AM	H H	7:05 AM 7:45 AM	L L	1:19 PM 2:01 PM	H H	7:51 PM	L	<b>SEP</b> 1 2	2:15 AM 3:09 AM	H H	8:22 AM 9:12 AM	L L	2:37 PM 3:29 PM	H H	8:55 PM 9:52 PM	L L
1 2 3 4	6:25 AM 12:36 AM 1:19 AM 2:04 AM	H H H	7:05 AM 7:45 AM 8:28 AM	L L L	1:19 PM 2:01 PM 2:44 PM	H H H	7:51 PM 8:39 PM	L L	\$ <b>EF</b> 1 2 3	2:15 AM 3:09 AM 4:06 AM	H H H	8:22 AM 9:12 AM 10:07 AM	L L L	2:37 PM 3:29 PM 4:26 PM	H H H	8:55 PM	L
1 2 3 4 5	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM	H H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM	L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM	Н Н Н	7:51 PM 8:39 PM 9:31 PM	L L L	\$EF 1 2 3 4	2:15 AM 3:09 AM 4:06 AM 5:10 AM	H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM	L L L	2:37 PM 3:29 PM 4:26 PM 5:28 PM	H H H	8:55 PM 9:52 PM 10:54 PM	L L L
1 2 3 4 5 6	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM	H H H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM	L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM	H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM	L L L	SEP 1 2 3 4 5	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM	H H H L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM	L L L H	2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM	H H H L	8:55 PM 9:52 PM 10:54 PM 6:36 PM	L L L
1 2 3 4 5 6 7	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM	H H H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM	L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM	H H H H	7:51 PM 8:39 PM 9:31 PM	L L L	\$EF 1 2 3 4	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM	H H H L L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM	L L L H	2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM	H H H L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM	L L H
1 2 3 4 5 6	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM	H H H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM	L L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM	H H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM	L L L L	SEP 1 2 3 4 5 6	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM	H H H L L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM	L L L H	2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM	H H H L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM	L L H H
1 2 3 4 5 6 7 8	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM	H H H H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM	L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM	H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM	L L L	SEF 1 2 3 4 5	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM	H H H L L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM	L L L H H	2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM	H H H L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM	L L H
1 2 3 4 5 6 7 8	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM	H H H H H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM	L L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM	H H H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM	L L L L	\$EF 1 2 3 4 5 6 7 8	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM	H H H L L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM	L L H H H	2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM	H H H L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM	L L H H
1 2 3 4 5 6 7 8 9	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM	H H H H H L L	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM	H H H H H L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM	L L L H	\$EF 1 2 3 4 5 6 7 8	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM	H H H L L L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM	H H H L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM	L L H H H
1 2 3 4 5 6 7 8 9 10	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM	H H H H H L L	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM	L L L L H H	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM	H H H H H L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM	L L L H H	SEF 1 2 3 4 5 6 7 8 9 10	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM	H H H L L L L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:11 PM	H H H L L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM	L L H H H
1 2 3 4 5 6 7 8 9 10 11 12	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM	H H H H H L L	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM 9:55 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM	H H H H H L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM	L L L H H H	SEF 1 2 3 4 5 6 7 8 9 10 11 12	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM	H H H L L L L	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:11 PM 5:54 PM	H H H L L L L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM	L L H H H
1 2 3 4 5 6 7 8 9 10 11 12 13	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM	H H H H L L L	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM	H H H H L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM	L L L H H H H	SEF 1 2 3 4 5 6 7 8 9 10 11 12	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM	H H H L L L L L L H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:11 PM 5:54 PM 12:28 PM	H H H L L L L L H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM	L L H H H H
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM	H H H H L L L	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM 9:55 AM 10:53 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM	H H H H L L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM	L L L H H H H	SEF 1 2 3 4 5 6 7 8 9 10 11 12 13 14	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM	H H H L L L L L H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM 6:53 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:11 PM 5:54 PM 1:228 PM 1:02 PM	H H H L L L L L H H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM	H H H H L L L L	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM	H H H H L L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM	L L L H H H H	\$EFF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:01 AM 12:07 AM 12:07 AM 12:45 AM	H H H L L L L L H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM	L L L H H H H H H L L L	2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 4:24 PM 5:11 PM 5:54 PM 1:228 PM 1:02 PM 1:35 PM	H H H H L L L L L H H H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM	H H H H L L L L L	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM	L L L L L H H H H H H L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM 2:52 PM	H H H H L L L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:04 PM		SEF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:22 AM 1:59 AM 2:37 AM	H H H H L L L L L L H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:12 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:11 PM 5:54 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM	H H H H L L L L L H H H H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM	H H H H H L L L L H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM	L L L L L H H H H H H L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:52 PM 3:35 PM	H H H H H L L L L L L H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:51 PM 9:39 PM		SEF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:22 AM 1:59 AM 2:37 AM 3:19 AM	H H H H L L L L L L H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:13 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:51 PM 5:54 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM	H H H H L L L L L L H H H H H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:50 PM 10:40 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM	H H H H H L L L L L H H H H H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM	L L L L H H H H H L L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:52 PM 3:35 PM 4:18 PM	H H H H H L L L L L L H H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:04 PM 9:39 PM 10:28 PM		SEF 1 2 3 4 5 6 7 8 9 10 111 122 13 144 155 166 17 18 19	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:59 AM 2:37 AM 3:319 AM 4:04 AM 4:04 AM	H H H H L L L L L L L H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:56 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:54 PM 1:228 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM	H H H H L L L L L H H H H H H H H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 1:30 AM 1:30 AM 1:30 AM 1:30 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM 10:02 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 1:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM 2:52 PM 3:35 PM 4:18 PM 5:33 PM	H H H H H L L L L L L H H H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:51 PM 9:39 PM		\$EF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:22 AM 1:59 AM 2:37 AM 3:19 AM 4:55 AM 4:55 AM	H H H H L L L L L L H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:12 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:13 AM 9:13 AM 9:14 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:51 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM	H H H H L L L L L L H H H H H H H H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM 10:40 PM 11:35 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:02 AM 3:02 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 8:52 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM 10:02 AM 10:02 AM	L L L L H H H H H H H L L L L L L L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:03 PM 5:04 PM	H H H H H L L L L L L H H H H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM		\$EFF 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 15 166 17 18 19 20 21	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:45 AM 12:45 AM 1:59 AM 2:37 AM 3:19 AM 4:04 AM 4:55 AM 1:52 AM	H H H H L L L L L L L H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:13 AM 9:56 AM 10:46 AM 11:42 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:51 PM 1:228 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 4:12 PM 5:03 PM 6:01 PM 1:242 PM	H H H H L L L L L L H H H H H H H H L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:50 PM 10:40 PM 10:40 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:02 AM 3:04 AM 1:30 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM 10:02 AM 10:02 AM 10:02 AM 10:02 AM	L L L L L H H H H H H L L L L L L H	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:03 PM 5:49 PM 1:218 PM	H H H H H H L L L L L L L H H H H H H L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM		\$EFF 1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:45 AM 1:22 AM 1:59 AM 2:37 AM 3:19 AM 4:04 AM 4:55 AM 5:52 AM 1:35 AM	H H H H L L L L L L L H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:13 AM 9:13 AM 9:14 AM 9:15 AM 11:42 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:11 PM 5:54 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM 12:42 PM 1:242 PM	H H H H L L L L L L H H H H H H H H L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM 10:40 PM 11:35 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:47 AM 4:35 AM 5:32 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM 10:02 AM 10:02 AM 10:24 AM 11:29 AM 6:20 AM 7:17 AM	L L L L L H H H H H H L L L L L L H H	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:03 PM 5:03 PM 1:218 PM 1:218 PM	H H H H H H L L L L L L H H H H H H L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM 6:39 PM 7:31 PM		\$EFF 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22 23	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:59 AM 2:37 AM 3:19 AM 4:04 AM 4:55 AM 5:52 AM 1:35 AM 1:35 AM	H H H H L L L L L L H H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:13 AM 9:14 AM 11:42 AM 6:52 AM 7:51 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:11 PM 5:54 PM 1:228 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM 12:42 PM 1:34 PM 2:40 PM	H H H H L L L L L L H H H H H H H H H L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM 10:40 PM 11:35 PM 7:02 PM 8:01 PM 8:57 PM	L L L H H H H H H L L L L L L L L H H H
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 2:51 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:47 AM 4:35 AM 4:35 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM 10:02 AM 10:44 AM 11:29 AM 6:20 AM 7:17 AM 8:15 AM	L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:03 PM 5:03 PM 5:04 PM 1:218 PM 1:09 PM 2:03 PM	H H H H H H L L L L L L H H H H H H H L L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM 6:39 PM 7:31 PM 8:23 PM		\$EF 1 2 3 4 5 6 7 8 9 100 111 122 133 14 15 16 17 18 19 20 21 22 23 24	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:59 AM 2:37 AM 3:19 AM 4:04 AM 4:55 AM 4:55 AM 1:35 AM 1:35 AM 2:30 AM 3:21 AM	H H H H L L L L L L H H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:18 AM 6:53 AM 7:59 AM 8:35 AM 9:36 AM 11:42 AM 6:52 AM 7:51 AM 9:56 AM 11:42 AM 11:42 AM 11:42 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 12:31 PM 3:31 PM 4:24 PM 5:11 PM 5:54 PM 12:28 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM 12:42 PM 1:43 PM 6:01 PM 12:42 PM 1:43 PM 2:40 PM	H H H H L L L L L L H H H H H H H H H L L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM 10:40 PM 11:35 PM 7:02 PM 8:01 PM 8:57 PM 9:49 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 1:30 AM 1:30 AM 1:30 AM 1:30 AM 1:31 AM 2:16 AM 3:02 AM 3:47 AM 4:35 AM 4:35 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:54 AM 8:37 AM 9:20 AM 10:02 AM 10:02 AM 10:44 AM 11:29 AM 7:17 AM 8:15 AM	L	1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:52 PM 3:35 PM 4:18 PM 5:30 PM 5:49 PM 12:18 PM 1:21 PM 1:20 PM 2:52 PM	H H H H H H L L L L L L L H H H H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM 6:39 PM 7:31 PM 8:23 PM 9:14 PM		\$EF 1 2 3 4 5 6 7 8 9 100 111 122 133 144 15 166 17 18 19 20 21 22 23 24 25	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:07 AM 12:45 AM 1:59 AM 2:37 AM 3:19 AM 4:04 AM 4:55 AM 5:52 AM 1:35 AM 12:35 AM 12:35 AM 12:30 AM 3:21 AM	H H H H L L L L L L L H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:12 AM 6:18 AM 6:53 AM 7:59 AM 8:35 AM 9:36 AM 10:46 AM 10:46 AM 11:42 AM 6:52 AM 7:51 AM 8:45 AM 9:34 AM 9:34 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 12:31 PM 3:31 PM 4:24 PM 5:51 PM 5:54 PM 12:28 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM 12:42 PM 5:43 PM 4:24 PM 4:24 PM	H H H H L L L L L L H H H H H H H H H L L L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:50 PM 10:40 PM 11:35 PM 7:02 PM 8:01 PM 8:57 PM 9:49 PM 10:38 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:02 AM 3:47 AM 4:35 AM 5:26 AM 12:13 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM 10:02 AM 10:02 AM 10:44 AM 11:29 AM 6:20 AM 7:17 AM 8:15 AM 9:11 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:03 PM 5:03 PM 1:218 PM 1:09 PM 2:55 PM 3:44 PM 1:09 PM 2:55 PM 3:44 PM	H H H H H H L L L L L L L H H H H H H H	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM 6:39 PM 7:31 PM 8:23 PM 9:14 PM 9:14 PM		\$EFF 1 2 3 4 4 5 6 7 8 9 10 11 12 13 144 15 16 17 18 19 20 21 22 23 24 25 26	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 1:22 AM 1:59 AM 1:59 AM 4:34 AM 1:55 AM 4:55 AM 4:55 AM 1:35 AM 1:35 AM 1:35 AM 1:35 AM 1:37 AM 1:37 AM 1:38 AM	H H H H L L L L L L H H H H H H H H H L L L L L L	8:22 AM 9:12 AM 10:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:36 AM 10:46 AM 10:46 AM 11:42 AM 6:52 AM 7:51 AM 8:45 AM 9:56 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 5:51 PM 1:228 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM 12:42 PM 1:43 PM 2:40 PM 3:34 PM 4:24 PM 5:31 PM	H H H H L L L L L L H H H H H H H H H L L L L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM 10:40 PM 11:35 PM 7:02 PM 8:01 PM 8:57 PM 9:49 PM	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:02 AM 4:35 AM 4:35 AM 5:26 AM 1:11 AM 4:35 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 12:36 PM 7:09 AM 7:09 AM 10:02 AM 10:02 AM 10:44 AM 11:29 AM 6:20 AM 7:17 AM 8:15 AM 9:11 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:03 PM 5:18 PM 1:218 PM 1:218 PM 1:218 PM 1:23 PM 1:24 PM 2:55 PM 3:35 PM 4:18 PM 1:218 PM 1:218 PM 1:218 PM 1:23 PM 1:24 PM 1:24 PM 1:24 PM 1:25 PM 1:25 PM 1:26 PM 1:27 PM 1:27 PM 1:28 PM 1:29 PM 1:21 PM 1:21 PM 1:21 PM 1:21 PM 1:21 PM 1:21 PM 1:22 PM 1:23 PM 1:24 PM 1:24 PM 1:25 PM 1:26 PM 1:27 PM 1:27 PM 1:28 PM 1:28 PM 1:29 PM 1:21 PM 1:29 PM 1:21 PM	H H H H H H L L L L L L H H H H H H H L L L L L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM 6:39 PM 7:31 PM 8:23 PM 9:14 PM 10:02 PM 10:02 PM		\$EFF 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 4 25 26 27	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:22 AM 1:59 AM 2:37 AM 3:19 AM 4:55 AM 1:35 AM	H H H H L L L L L L L H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:13 AM 9:56 AM 10:46 AM 11:42 AM 6:52 AM 7:51 AM 8:45 AM 10:40 AM 11:42 AM 11:42 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:51 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:41 PM 5:13 PM	H H H H L L L L L L H H H H H H H H H L L L L L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM 10:40 PM 11:35 PM 7:02 PM 8:01 PM 8:01 PM 8:01 PM 8:01 PM 8:01 PM	L L H H H H H L L L L L L L H H H H H H
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:02 AM 3:47 AM 4:35 AM 5:26 AM 12:13 AM 3:10 AM 2:13 AM 3:47 AM 4:35 AM 5:26 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 8:52 AM 9:55 AM 10:53 AM 11:46 AM 12:36 PM 7:09 AM 7:54 AM 8:37 AM 9:20 AM 10:02 AM 10:23 AM 10:44 AM 11:29 AM 6:20 AM 7:17 AM 8:15 AM 9:11 AM 10:01 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 3:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:09 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:49 PM 1:218 PM 1:09 PM 2:55 PM 3:44 PM 4:31 PM 5:15 PM	H H H H H H L L L L L L H H H H H H H L L L L L L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM 6:39 PM 7:31 PM 8:23 PM 9:14 PM 9:14 PM		\$EFF 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 15 166 17 18 19 20 21 22 23 24 25 26 27 28	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:01 AM 12:45 AM 12:45 AM 1:22 AM 1:59 AM 2:37 AM 3:19 AM 4:04 AM 4:55 AM 1:35 AM	H H H H L L L L L L L H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 11:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 11:52 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:56 AM 10:46 AM 11:42 AM 6:52 AM 7:51 AM 8:45 AM 9:34 AM 10:40 AM 11:42 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:51 PM 5:51 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 4:12 PM 5:03 PM 6:01 PM 12:42 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 4:24 PM 5:513 PM	H H H H L L L L L L H H H H H H H H H L L L L L L L H	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:50 PM 10:40 PM 11:35 PM 7:02 PM 8:01 PM 8:57 PM 9:49 PM 10:38 PM 10:38 PM	L L L H H H H H H L L L L L L L L L H H H H H H L
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 29 30 30 30 30 30 30 30 30 30 30 30 30 30	6:25 AM 12:36 AM 1:19 AM 2:04 AM 2:51 AM 3:42 AM 4:37 AM 5:36 AM 12:30 AM 1:35 AM 2:39 AM 3:41 AM 4:38 AM 5:32 AM 6:22 AM 12:43 AM 1:30 AM 2:16 AM 3:02 AM 4:35 AM 4:35 AM 5:26 AM 1:11 AM 4:35 AM	H	7:05 AM 7:45 AM 8:28 AM 9:13 AM 10:00 AM 10:51 AM 11:45 AM 6:39 AM 7:45 AM 9:55 AM 10:53 AM 12:36 PM 7:09 AM 7:09 AM 10:02 AM 10:02 AM 10:44 AM 11:29 AM 6:20 AM 7:17 AM 8:15 AM 9:11 AM		1:19 PM 2:01 PM 2:44 PM 3:30 PM 4:19 PM 5:11 PM 6:07 PM 12:43 PM 1:43 PM 2:45 PM 4:42 PM 5:36 PM 6:27 PM 1:24 PM 2:52 PM 3:35 PM 4:18 PM 5:03 PM 5:03 PM 5:18 PM 1:218 PM 1:218 PM 1:218 PM 1:23 PM 1:24 PM 2:55 PM 3:35 PM 4:18 PM 1:218 PM 1:218 PM 1:218 PM 1:23 PM 1:24 PM 1:24 PM 1:24 PM 2:25 PM 3:35 PM 4:18 PM 1:21 PM	H H H H H H L L L L L L H H H H H H H L L L L L L	7:51 PM 8:39 PM 9:31 PM 10:27 PM 11:26 PM 7:05 PM 8:06 PM 9:06 PM 10:05 PM 11:01 PM 11:53 PM 7:16 PM 8:04 PM 8:51 PM 9:39 PM 10:28 PM 11:19 PM 6:39 PM 7:31 PM 8:23 PM 9:14 PM 10:02 PM 10:02 PM		\$EFF 1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	2:15 AM 3:09 AM 4:06 AM 5:10 AM 12:02 AM 1:12 AM 2:20 AM 3:21 AM 4:14 AM 5:00 AM 5:41 AM 12:07 AM 12:45 AM 1:22 AM 1:59 AM 2:37 AM 3:19 AM 4:55 AM 1:35 AM	H H H H L L L L L L L H H H H H H H H H	8:22 AM 9:12 AM 10:07 AM 6:19 AM 7:30 AM 8:37 AM 9:36 AM 10:27 AM 11:12 AM 6:18 AM 6:53 AM 7:26 AM 7:59 AM 8:35 AM 9:13 AM 9:13 AM 9:56 AM 10:46 AM 11:42 AM 6:52 AM 7:51 AM 8:45 AM 10:40 AM 11:42 AM 11:42 AM		2:37 PM 3:29 PM 4:26 PM 5:28 PM 12:14 PM 1:24 PM 2:31 PM 3:31 PM 4:24 PM 5:51 PM 1:02 PM 1:35 PM 2:09 PM 2:46 PM 3:26 PM 4:12 PM 5:03 PM 6:01 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:40 PM 1:43 PM 2:41 PM 5:13 PM	H H H H L L L L L L H H H H H H H H H L L L L L L L	8:55 PM 9:52 PM 10:54 PM 6:36 PM 7:46 PM 8:52 PM 9:50 PM 10:41 PM 11:26 PM 6:33 PM 7:11 PM 7:48 PM 8:26 PM 9:06 PM 9:50 PM 10:40 PM 11:35 PM 7:02 PM 8:01 PM 8:01 PM 8:01 PM 8:01 PM 8:01 PM	L L H H H H H L L L L L L L H H H H H H



# **Outfitting and safety expert**



**electronic charts** paper charts **SOLAS flares** life rafts foul weather gear navigation softwa **MOB** equipment inflatable PFDs cruising guides almanacs, pilots tethers **jacklines** clocks, barometer instruments **EPIRBs** watermakers drogues sea anchors abandon ship gea rigging cutters medical packs night vision sextants

See our catalog online or call for a free print catalog

800-941-2219

FREE online cruising/racing planning guides! www.landfallnavigation.com/gmora.html