

HOW DO YOU WIN THE BERMUDA RACE?

with US SAILING'S Offshore RACE OPTIMIZATION PACKAGE



photo: Onne Van Der Wal



photo: Meghan Sepe

**Test Your Boat in Various Wind/Course Conditions.
Pick the Best Configuration to Beat the Handicap.
Would you Carry a Large Spinnaker in a Mostly Upwind Race? NO!**

Questions You Should be Asking:

- Masthead or Fractional Spinnaker? Sprit on Centerline or Moveable Pole?
- What Size Genoa? How Many Crew? How Much Ballast? Bigger/Smaller Bulb?

Do What the Top Grand Prix Programs do:

- Get performance predictions for each boat variation. Add in some "enemy" boats.
- Pick any of a number of standard/custom predictions of wind speed and direction.
- For each wind prediction find out which boat would win the race, and by how much.
- Choose the optimal boat configuration for the most likely wind conditions.

SAMPLE SPREADSHEET

Race Distance:
Scratch Boat: MY BOAT (current)

Performance Curve Scoring

RACE HANDICAPS: (OCEAN COURSE)

BOAT	TWS:	6	8	10	12	16	20	24	EXPECTED SPM	Elapsed Time Hrs	Corrected Time Hrs	Rank	Corrected Time Diff.
MY BOAT (current)		870.3	688.3	586.8	525.2	461.3	425.0	393.4	476.1	84.112	85.821	10	1.914
MY BOAT (MH Spinn)		875.6	688.0	582.5	525.2	461.3	425.0	380.6	474.9	83.907	83.907	1	0.000
MY BOAT (Frac Spinn)		843.5	665.1	565.0	525.2	461.3	425.0	395.4	458.3	80.972	84.771	4	0.864
MY BOAT (exp 3)		876.5	691.7	588.4	525.2	461.3	425.0	383.9	481.1	84.994	85.269	6	1.340
MY BOAT (exp 4)		905.5	710.4	600.7	525.2	461.3	425.0	391.7	481.1	84.994	85.269	11	2.042
OTHER BOAT 1		874.2	694.2	594.2	527.6	461.3	425.0	395.4	485.9	84.994	85.269	2	0.069
OTHER BOAT 2		843.7	664.2	564.2	527.6	461.3	425.0	362.7	485.9	84.994	85.269	8	1.436
OTHER BOAT 3		867.2	684.2	584.2	527.6	461.3	425.0	374.4	485.9	84.994	85.269	9	1.706
OTHER BOAT 4		886.2	699.2	599.2	527.6	461.3	425.0	386.5	485.9	84.994	85.269	7	1.362
OTHER BOAT 5		876.2	689.2	589.2	527.6	461.3	425.0	390.7	482.9	85.308	85.202	5	1.296
OTHER BOAT 6		845.4	658.2	558.2	527.6	461.3	425.0	379.2	464.9	82.127	84.482	3	0.575

SECONDS PER MILE HANDICAPS USED TO SCORE THE RACE

PREDICTED SEC/MILE FOR WIND CHOICE

PICK OPTIMAL BOAT FOR THIS RACE

WIND/COURSE CONDITIONS (% OCCURRENCE AT EACH COMBINATION OF TRUE WIND SPEED AND TRUE WIND ANGLE)

Choose Forecast: Reaching Light Wind

True Wind Speed:	6	8	10	12	16	20	24	SUM
Wind Probability:	25	50	25	0	0	0	0	100

VMG Up	0	0	0	0	0	0	0
52	5	5	5	5	5	5	5
60	10	10	10	10	10	10	10
75	20	20	20	20	20	20	20
90	30	30	30	30	30	30	30
110	20	20	20	20	20	20	20
120	10	10	10	10	10	10	10
135	5	5	5	5	5	5	5
150	0	0	0	0	0	0	0
VMG Dn	0	0	0	0	0	0	0
WW/LW	0	0	0	0	0	0	0
CR	0	0	0	0	0	0	0
OCEAN	0	0	0	0	0	0	0
NON-SPIN	0	0	0	0	0	0	0
SUM	100	100	100	100	100	100	100

TABLE OF WIND SPEED AND ANGLE PREDICTIONS Special Order: COMMANDER'S WEATHER DATA

NOTES ON PROGRAM USE

In the green cells at the top, type in the race distance (n. miles) and key-in the number for the scratch boat.

To pick a weather forecast, key in a number, 1 to 10 in the green shaded cell under "WIND/COURSE COND..." The table underneath shows the % distribution of true wind angle for each true wind speed, as well as the probability (%) of each wind speed.

For each boat the expected Sec/Mile is calculated along with the elapsed time in hours, Corrected Time, Rank (place) for the race and Corrected Time Differences.

Order your **RACE OPTIMIZATION PACKAGE**

Starting at \$500 (4 boats)

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