

ClearPoint Weather Update

**NYYC Cruise 2007
Maine – August 8th**



CLEARPOINT

What ClearPoint Provides to Sailors

- **High resolution (2 km) weather radar (where available)**
- **High resolution (1 km) wind forecasts for:**
 - - Any sailing region (currently Gulf of Maine, Newport, Caribbean (USVI/BVI) and Valencia, Spain)
- **Current observations and 6-12-24-48-72 hour forecasts for:**
 - - Surface wind speed, direction, and temperature
 - - Wave height/ period
 - - Visibility
 - - Cloud cover and precipitation
 - - Sea surface temperature and ice cover
- **Local shore and port current conditions and forecasts**
- **Tropical cyclone and significant weather tracking**

Pre-Race Analysis for Wednesday, August 8th

• General overview

- Fresh S to SE to S 12-17 knot winds in morning increasing by midday S to SE to 15 to 23 knots and gusting higher. Late afternoon, frontal passage veers wind to SW then W in evening, diminishing to 10-15 knots.
- Warm front moving slowly E bringing overcast skies and strong gradient S to SSE winds most of the day. Fog early.
- Winds will tend to be moderately shifty (10-15 degrees), puffy and streaky in the 12-23 knot range from S to SE most of day. Before front, wind may trend SE, then after front SW.
- Wind direction and speed will be strongly influenced by geographic factors, more SE offshore/opening of bay, more S inside bays, but shifting around points/headlands in classic geographic “bending” fashion (e.g. from SSE to SSW directions- see wind prediction charts attached)

Pre-Race Analysis for Wednesday, August 8th

- **Tactical overview**

- Midday (10 am to 1 pm):

- Watch strengthening S to SE 10-15 knot breeze if race starts in the morning, breeze lines/gusts that develop will be large and growing larger, streaks will remain strong with large, intermittent oscillations.
 - By late morning, midday the S to SE gradient wind flow should continue to increase into steady 14-23 knots range.
 - Key is maintaining timing of oscillations and watching long wind streaks and keeping in synch with oscillations for maximum gains. Streaks will be prevalent.

- Afternoon (1 pm to 5 pm):

- As frontal/gradient breeze develops, the strong gradient S to SE flow will shift S then SW as frontal passage moves east with winds diminishing to 10-15 knot range. Approximate timing for shift will be in the 2 pm to 4 pm range based on frontal speed. Therefore, watch west side of course for new puffs and shifts going from 170 deg. Wind direction swinging to 190-220 degrees.
 - Continue to watch geographic influence on breeze with wind coming off either shores in long streaks with additional velocity; sailing within the long streaks will be key as one can sail out of them even in these conditions.

NOAA Analysis for Wednesday, August 8th

- COASTAL WATERS FORECAST
- NATIONAL WEATHER SERVICE GRAY ME
- 606 AM EDT WED AUG 8 2007

- .SYNOPSIS FOR STONINGTON ME TO MERRIMACK RIVER MA OUT TO 25 NM...
- LOW PRES WILL FORM ALONG A WARM FRONT OVER THE NEW ENGLAND COASTAL WATERS TODAY...BEFORE EXITING WATERS LATE THIS AFTERNOON. HIGH PRES WILL BUILD OVER THE WATERS TONIGHT AND THU. ANOTHER LOW WILL PASS JUST S OF THE WATERS FRI. WEAK HIGH PRES WILL BUILD ACROSS THE WATERS FOR THE WEEKEND.

- .REST OF TODAY...S WINDS 10 TO 15 KT WITH GUSTS UP TO 20 KT... INCREASING TO 15 TO 20 KT WITH A FEW GUSTS UP TO 25 KT LATE THIS MORNING AND EARLY AFTERNOON...THEN BECOMING SW. SEAS 2 TO 4 FT...BUILDING TO 3 TO 5 FT THIS AFTERNOON. AREAS OF FOG EARLY. OCCASIONAL SHOWERS EARLY. A CHANCE OF TSTMS. A CHANCE OF SHOWERS THIS AFTERNOON. VSBY BELOW 1 NM THIS MORNING IN AREAS OF FOG.
- .TONIGHT...NW WINDS 15 TO 20 KT WITH GUSTS UP TO 30 KT. SEAS 3 TO 5 FT.
- .THU...N WINDS 10 TO 15 KT WITH GUSTS UP TO 20 KT... BECOMING SE 5 TO 10 KT IN THE AFTERNOON. SEAS 2 TO 4 FT.
- .THU NIGHT...SW WINDS 5 TO 10 KT. SEAS 1 TO 2 FT IN THE EVENING... THEN 1 FOOT OR LESS.