

Good morning teams racing in Ullman Sails Long Beach Race Week:

The pattern is mostly stable. A dry front is dropping down the central coast this morning and may enhance the marine layer through late morning and could enhance the harbor winds if it clears the low desert by 1400 HRS today. The summer pattern is mostly driven by the offshore high pressure feeding into a thermal low in the low desert. One of the more valuable things I have learned over the years came from Dave Ullman who noted at a CISA I was providing support to was this: "When the temperature delta between Long Beach Harbor and the low desert reaches 40 degrees or more, the gradient supports 18-25 knots in the mid to late afternoon and is joined by a dependable right shift. Once the velocity begins to decrease, the left almost always starts to pay. Today's expected wind delta is 34° F with the high reaching 67° F in the harbor while the low desert is expected to be 101° falling short of the 40° delta. Onshore SW flow should still be the rule, just not quite into the stronger Long Beach harbor potential. Many thanks for WxRouting technology partner [PredictWind](#) for technical support.

Synopsis

A typical late-June Southern California marine pattern remains in place. A weak eastern Pacific high and inland thermal trough will drive a reliable afternoon sea breeze each day. Morning winds will generally be light under the marine layer, increasing from the WSW to W during the afternoon before easing again after sunset. No significant synoptic systems are expected to disrupt the pattern through Sunday. PredictWind's model suite (PWG/PWE) is generally in good agreement with the NOAA marine forecast, differing by only a few knots during the afternoon peak.

Friday

- **Morning (0600–1100):** 3–7 kt, generally S to SW.
 - **Afternoon (1200–1800): 10–14 kt WSW to W.**
 - **Lower hedge:** 8–10 kt
 - **Upper hedge:** 14–16 kt
 - **Evening:** Diminishing to 5–8 kt after sunset.
 - **Confidence:** High (≈85%)
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Saturday

- Marine layer clears late morning.
- **Morning:** 4–8 kt ESE to S.
- **Afternoon: 11–15 kt WSW.**
 - **Lower hedge:** 9–11 kt
 - **Upper hedge:** 15–17 kt

Local funneling near the federal breakwater and Queens Gate could briefly add 2–3 kt.

- **Confidence:** High ($\approx 85\%$)
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Sunday

- Similar overall pattern with slightly cooler air.
 - **Morning:** 3–7 kt.
 - **Afternoon: 9–13 kt W to WSW.**
 - **Lower hedge:** 7–9 kt
 - **Upper hedge:** 13–15 kt
- Winds ease quickly during the evening.
- **Confidence:** Moderate to High ($\approx 80\%$)
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Operational Notes

- Expect the strongest winds between **1400 and 1700 PDT** each afternoon.
- Inside Long Beach Harbor, wind speeds typically run **2–5 kt lighter** than outside the breakwater.
- Just outside Angels Gate and across the San Pedro Channel, expect afternoon winds to be several knots stronger due to local acceleration.
- Seas remain modest with a dominant long-period south swell around **2–3 ft** and a short-period local wind wave developing each afternoon. Harbor conditions should remain relatively protected.

Mark@WxRouting overview

- **Friday:** WSW 10–14 kt (hedge **8–16 kt**)
- **Saturday:** WSW 11–15 kt (hedge **9–17 kt**) — strongest day
- **Sunday:** WSW 9–13 kt (hedge **7–15 kt**)

The overall pattern is very stable, with little indication of a significant wind event. The principal uncertainty is the exact strength of the afternoon sea breeze, on the order of ± 2 –3 knots.

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