

The CADRE Report



Event: 2021 IC37 North Americans
 Forecast Location: Newport, RI
 Forecast Date/Time: 0700 EDT, Sun Oct 03, 2021

- Summary:**
- **Bottom Line: S gradient wind fills at slightly left of 180, unstable and shifty**
 - Big picture: Frontal boundary is dividing the flow – with NE-E winds to the north over eastern Mass, and S-SW across southern New England.
 - boundary will initially be close to the area this morning, killing any gradient wind
 - as land heats it will draw the front a bit northward and allow some S flow today
 - by later tonight the front drops south again
 - Currently this morning, winds are light from SW to NW.
 - Light and shifty winds through about noon today
 - very light N to NE flow inside Bay early, but diminishing around noon
 - first signs of S wind will show up along the offshore course first around noon
 - Nature of the wind will feel unstable and may not feel like 'solid' breeze.
 - clouds will be important- so be sure to look up, sail in blue sky
 - Southerly flow will develop first at Offshore course then filter up the Bay
 - direction may start a bit SSE or left of 180, then will swing to more 180-190 by later aftn
 - Peak wind speeds only 7-11 kts today – occurring around 2-3pm
 - wind really only lasts from 1pm to 4-5pm today
 - By 3pm and on, clouds will be increasing and once there is too much cloud cover, the wind will shut down 4pm+ as the front dips nearer.
 - slight right trend as the wind begins to fade after 3pm.

**Sun Oct 3
General Weather**

Sky Mostly sunny with increasing clouds. Showers tonight.
Waves S swells up to 3-5 ft offshore
Temps Aftn High: 73 **Tides:** Low 11:37 AM
 Water Temp 67 High 6:12 PM

INSHORE COURSES

Time (EDT)	1000	1100	1200	1300	1400	1500	1600	1700
Wind Direction (mag)	350-020	330-020	140-170	180-200	160-180	160-180	170-190	180-200
Wind Speed (knots)	0-5	0-5	2-5	6-10	7-11	7-11	6-10	4-9
Gust (knots)								
Comments				S wind coming up Bay		peak winds		late right shift and fading

OFFSHORE COURSE

Time (EDT)	1000	1100	1200	1300	1400	1500	1600	1700
Wind Direction (mag)	260-280	180-210	160-180	170-190	170-190	180-200	180-200	180-200
Wind Speed (knots)	0-4	1-5	4-8	6-11	7-11	7-11	4-9	3-7
Gust (knots)								
Comments			S wind developing		peak winds		late right shift and fading	

Forecast Confidence

- Confidence is average. Wind directions could easily shift a lot with slight frontal movement
- Most uncertainty is in the Narragansett Bay forecast where I think most of the day winds will be

very tough- light, shifty, and once it fills it may not last long.

- a little more confidence in Offshore forecast where it looks like winds fill earlier and last a little longer

- Max left is 160 and max right is 200

Outlook

Time (EDT)	0800	1000	1200	1400	1600
Wind Direction (mag)					
Wind Speed (knots)					
Gust (knots)					

Weather

Sky
Temps

Today's Weather Maps

