



Lake Michigan Beach Hazards Webinar

National Weather Service Grand Rapids MI



Evolution

- Winds and waves will build from north to south today
- Large waves and dangerous currents will continue into Tonight

Time Period of Concern

- Today and Tonight
- High winds and large waves will subside into Wednesday morning

Threat Area

- All beaches from St. Joseph to Manistee

Confidence Level in the Forecast

- **HIGH**
- These winds are strong by mid summer standards

Tuesday July 23rd 1000AM



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Wind

- Winds from the north or northwest 15 to 30 mph Today and Tonight
- Winds diminish late tonight and into Wednesday morning

Waves

- Waves 4 to 7 feet through sunset

High Impact Beaches

- Stearns Park in Ludington...Mears State Park in Pentwater...Muskegon State Park...Holland State Park and North Beach in South Haven...all of which are located on the north side of north piers (structural currents)

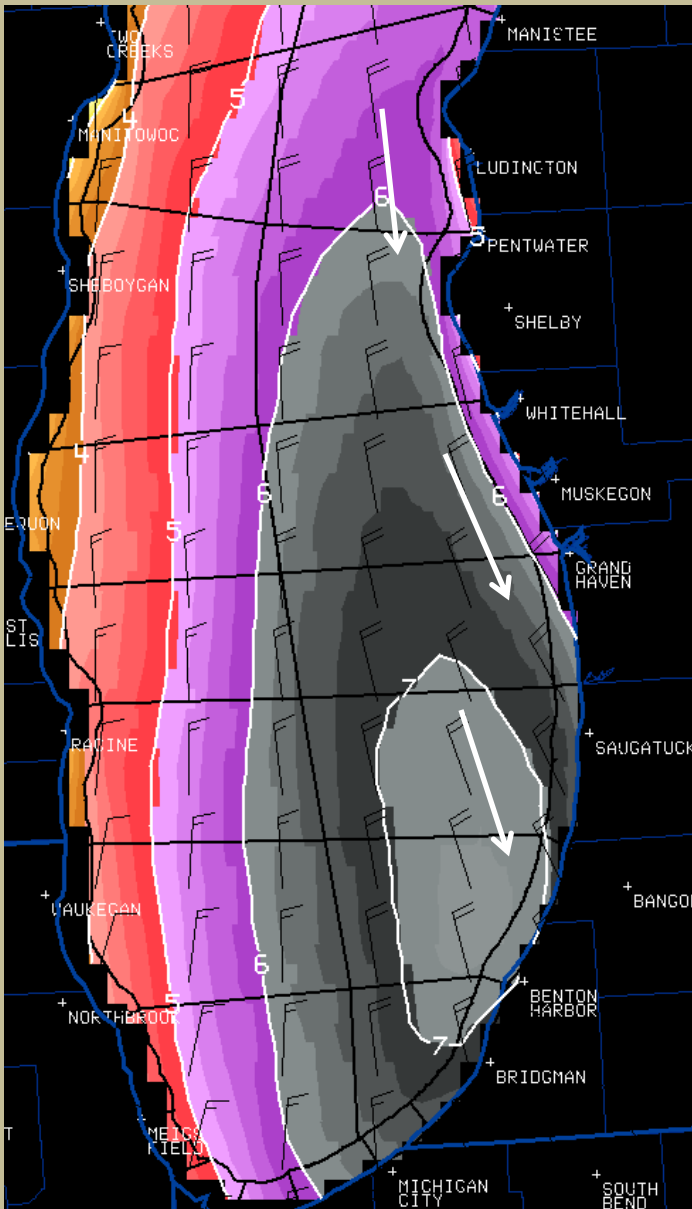
Other Concerns

- With wind blows along the coast like today, strong longshore currents form. Strong currents from the north will occur today.

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Forecast Wave Heights

Image Valid:

400pm Today

Waves Legend

Less and 1 foot **Blue**

1-2 feet **Green**

2-3 feet **Yellow**

3-4 feet **Orange**

4-5 feet **Red**

5-6 feet **Purple**

6-7 feet **Black**

> 7 feet **White**

White arrows indicate direction the wind is coming from



Summary

National Weather Service Grand Rapids MI



- Waves 4 to 7 feet Today
- Dangerous currents including structural, longshore and rips
- Strong southward moving longshore currents can be expected
- Structural currents will occur on the north side of north piers

Swim Hazard Risk

High

Moderate

Low





Click the Links Below for More Information

National Weather Service Grand Rapids MI



NWS Grand Rapids Website

<http://www.weather.gov/grr>

Recreational Beach Forecast

<http://www.crh.noaa.gov/grr/marine/surf/>

GLERL Wave Model

<http://www.glerl.noaa.gov/res/glcfs/>

Buoy / Lakeshore Obs

<http://www.ndbc.noaa.gov/maps/>

Beach Observations

<http://www.crh.noaa.gov/grr/products/>
select OMRGRR