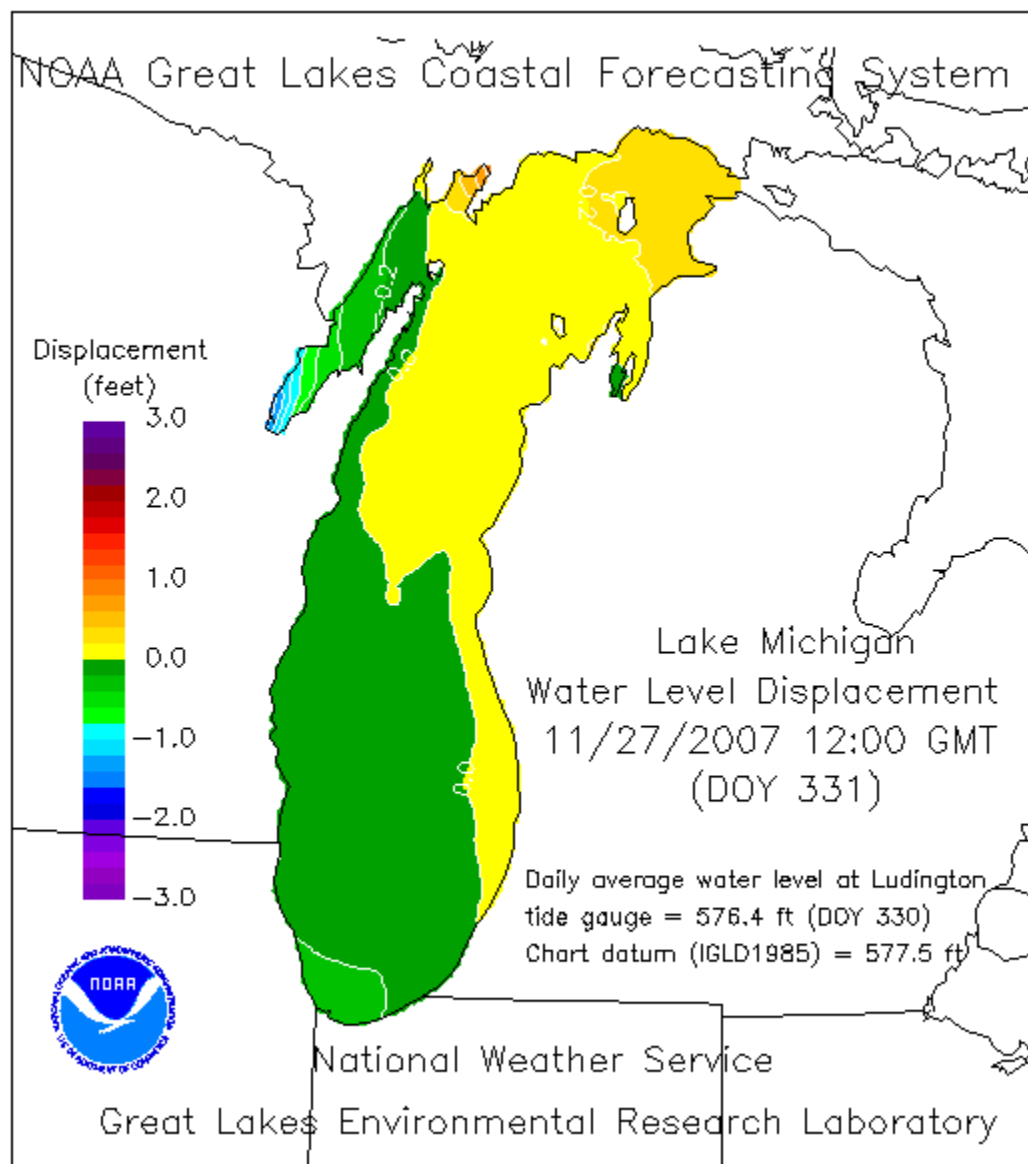


Lake Michigan
Nov 27, 2007 – 7:00 AM
Water displacement

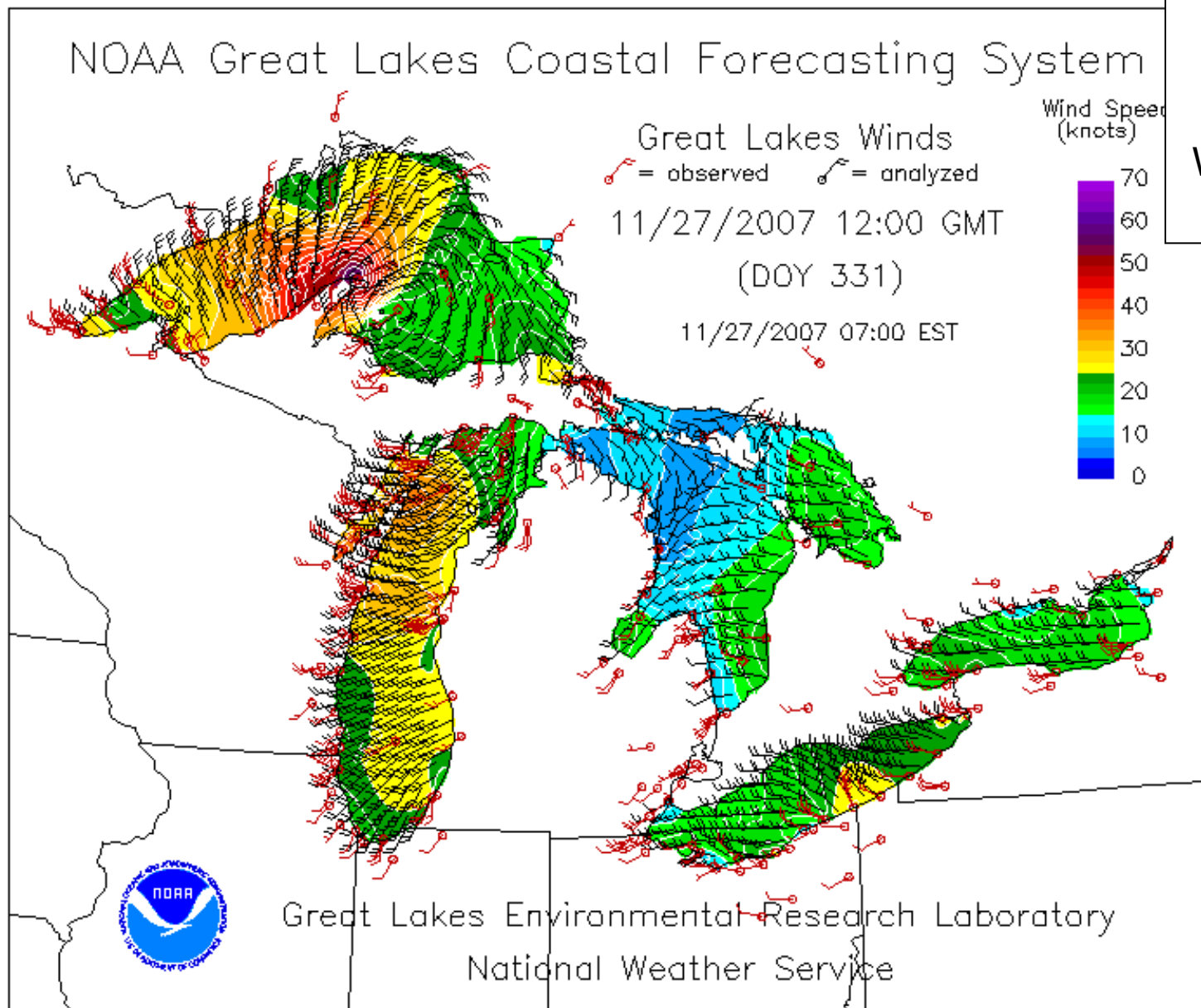


Lake Michigan

Nov 27, 2007

7:00 AM

Wind direction &
speed



Slide 2

NOAA Great Lakes Coastal Forecasting System

Great Lakes Winds

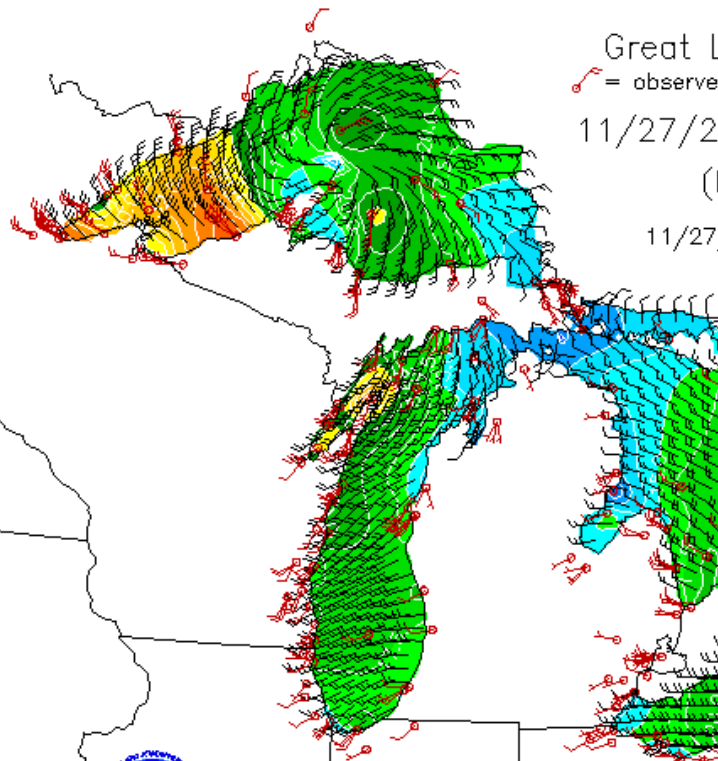
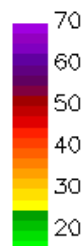
☞ = observed ☞ = analyzed

11/27/2007 10:00 GMT

(DOY 331)

11/27/2007 05:00 EST

Wind Speed
(knots)



Great Lakes Environmental
National Weather

NOAA Great Lakes Coastal Forecasting System

Great Lakes Winds

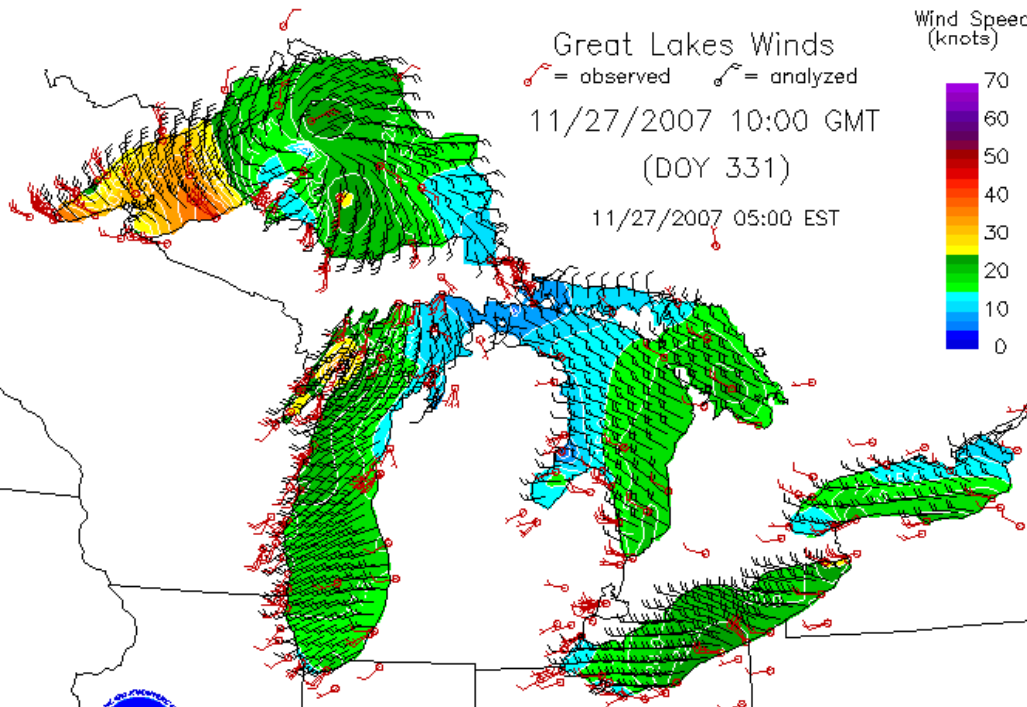
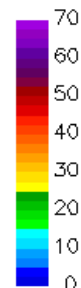
☞ = observed ☞ = analyzed

11/27/2007 10:00 GMT

(DOY 331)

11/27/2007 05:00 EST

Wind Speed
(knots)



Great Lakes Environmental Research Laboratory
National Weather Service

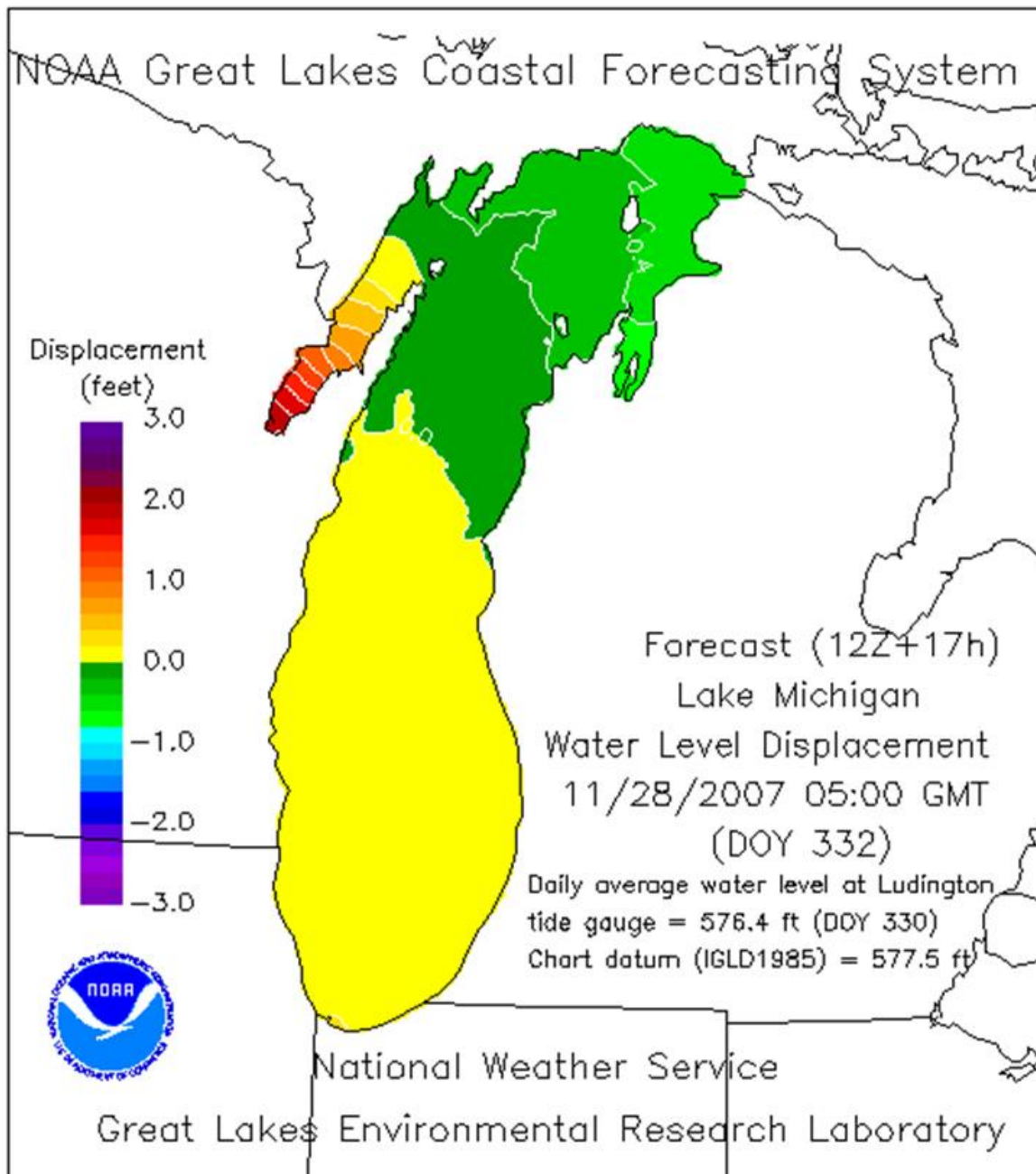
Lake Michigan

Nov 27, 2007

5:00 & 6:00 AM

Wind direction &
speed

Slide 3



Lake Michigan /
Green Bay

Nov 28, 2007

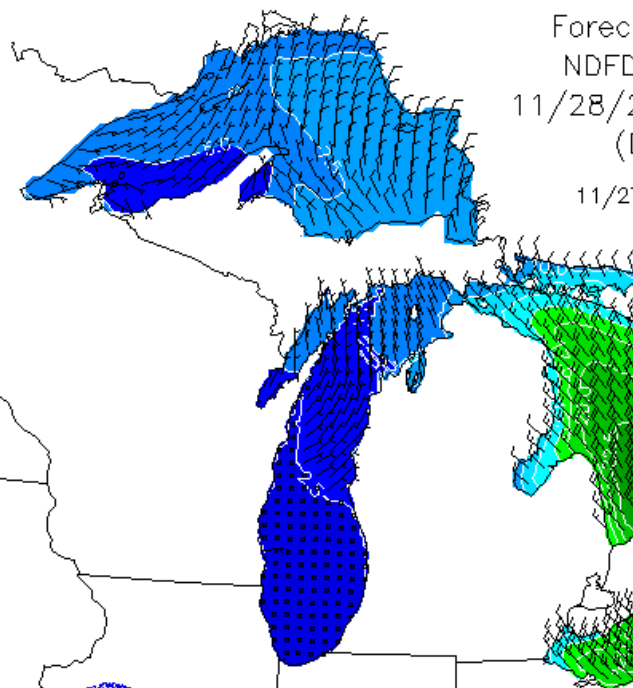
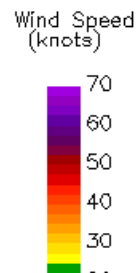
12:00 AM

Water displacement

Forecast

NOAA Great Lakes Coastal Forecasting System

Forecast (12Z+15h)
NDFD Model Winds
11/28/2007 03:00 GMT
(DOY 332)
11/27/2007 22:00 EST



Great Lakes Environmental
National Weather Service

Lake Michigan / Green Bay

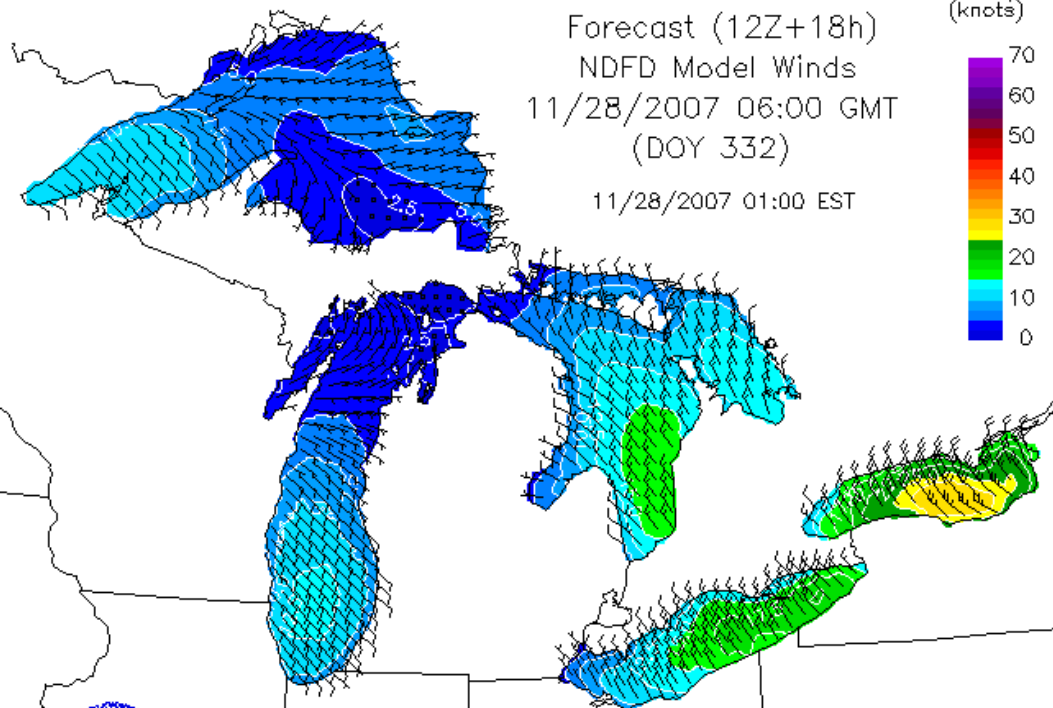
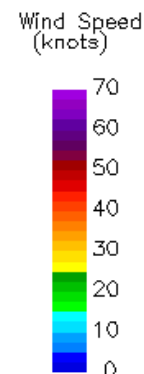
Nov 27, 2007 10:00 PM

Nov 28, 2007 1:00 AM
(Forecast)

Wind direction & speed

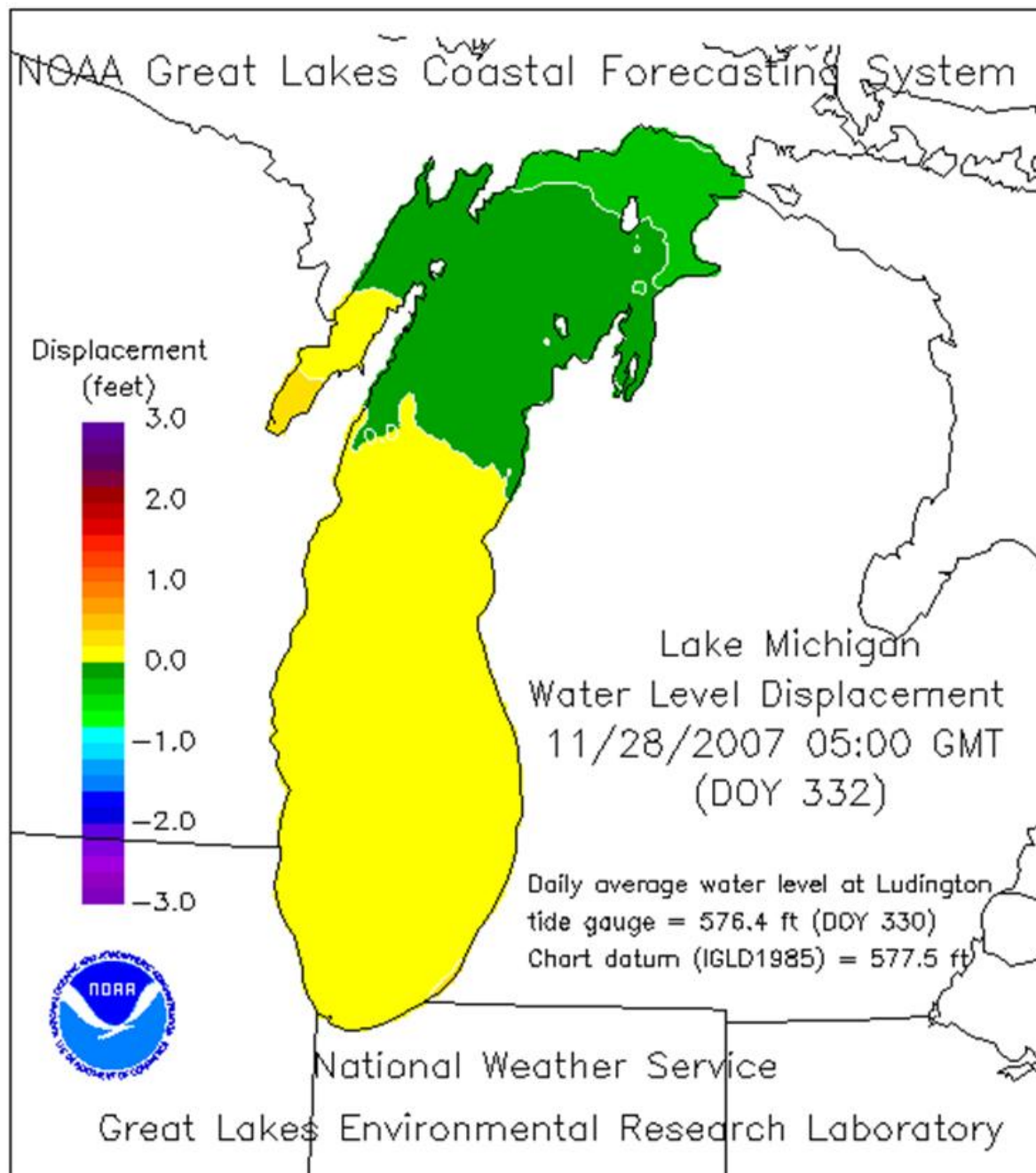
NOAA Great Lakes Coastal Forecasting System

Forecast (12Z+18h)
NDFD Model Winds
11/28/2007 06:00 GMT
(DOY 332)
11/28/2007 01:00 EST



Great Lakes Environmental Research Laboratory
National Weather Service

Slide 5



Lake Michigan /
Green Bay

Nov 28, 2007

12:00 AM

Water displacement

Slide 6

NOAA Great Lakes Coastal Forecasting System

Great Lakes Winds

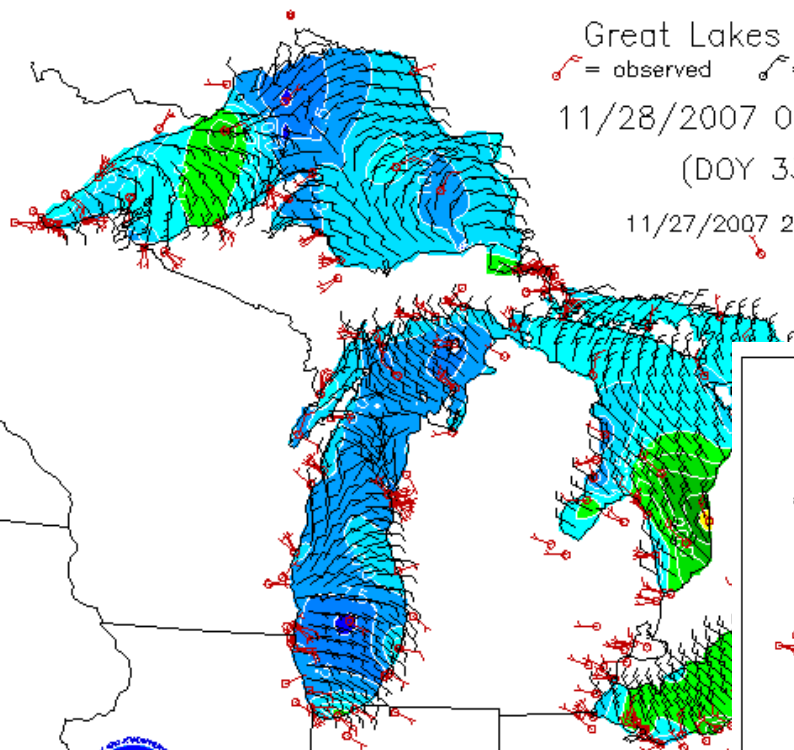
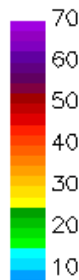
○ = observed ○ = analyzed

11/28/2007 04:00 GMT

(DOY 332)

11/27/2007 23:00 EST

Wind Speed
(knots)



Great Lakes Environmental Research Laboratory
National Weather Service

Lake Michigan / Green Bay

Nov 27, 2007 – 11:00 PM
(Nowcast)

Nov 28, 2007 – 1:00 AM
(Forecast)

Wind direction & speed

NOAA Great Lakes Coastal Forecasting System

Great Lakes Winds

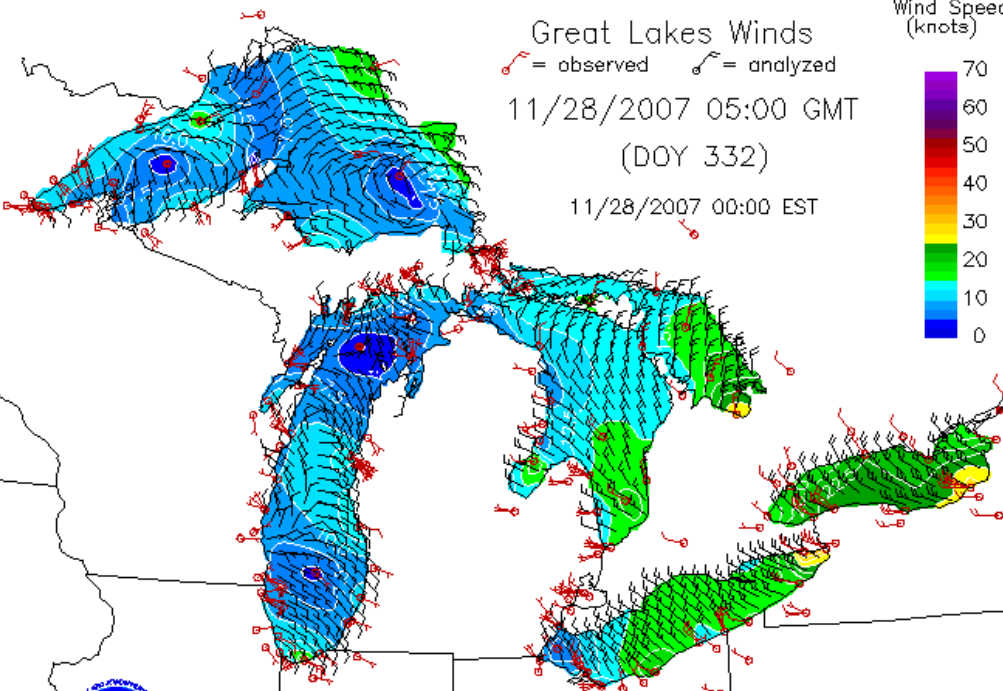
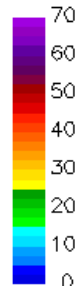
○ = observed ○ = analyzed

11/28/2007 05:00 GMT

(DOY 332)

11/28/2007 00:00 EST

Wind Speed
(knots)



Great Lakes Environmental Research Laboratory
National Weather Service

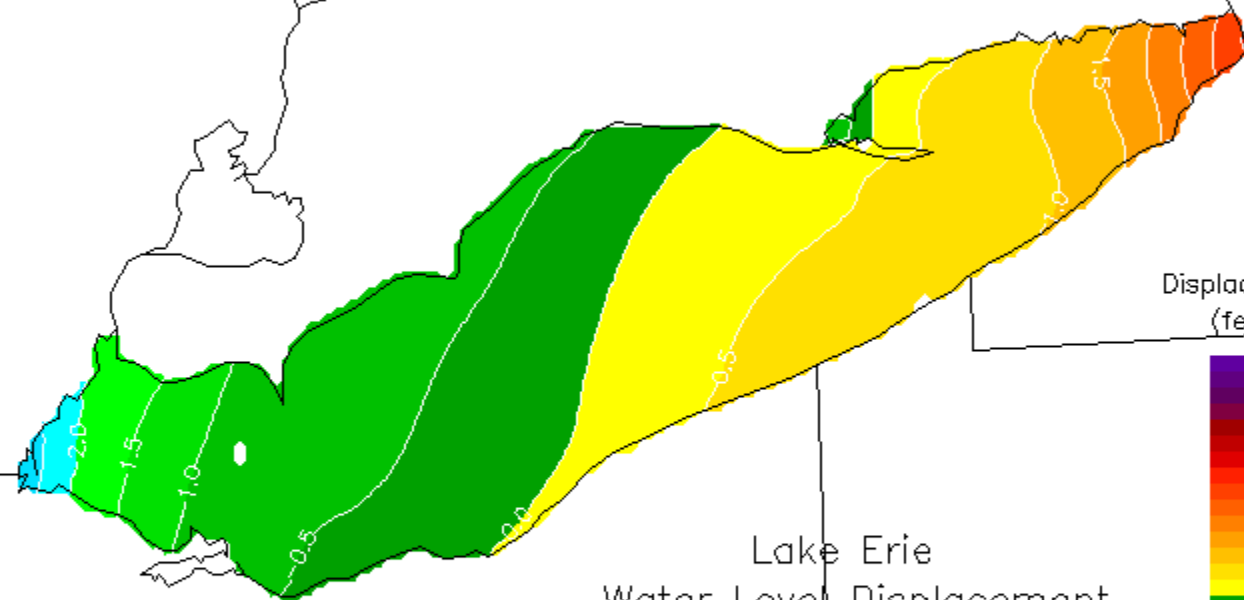
Slide 7

Lake Erie
Nov 27, 2007

3:00 PM

Water displacement

NOAA Great Lakes Coastal Forecasting System



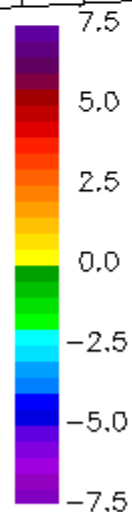
Daily average water level at
Cleveland tide gauge = 570.3 ft (DOY 330)
Chart datum (IGLD1985) = 569.2 ft



Lake Erie
Water Level Displacement
11/27/2007 20:00 GMT
(DOY 331)

National Weather Service
Great Lakes Environmental Research Laboratory

Displacement
(feet)



Slide 8

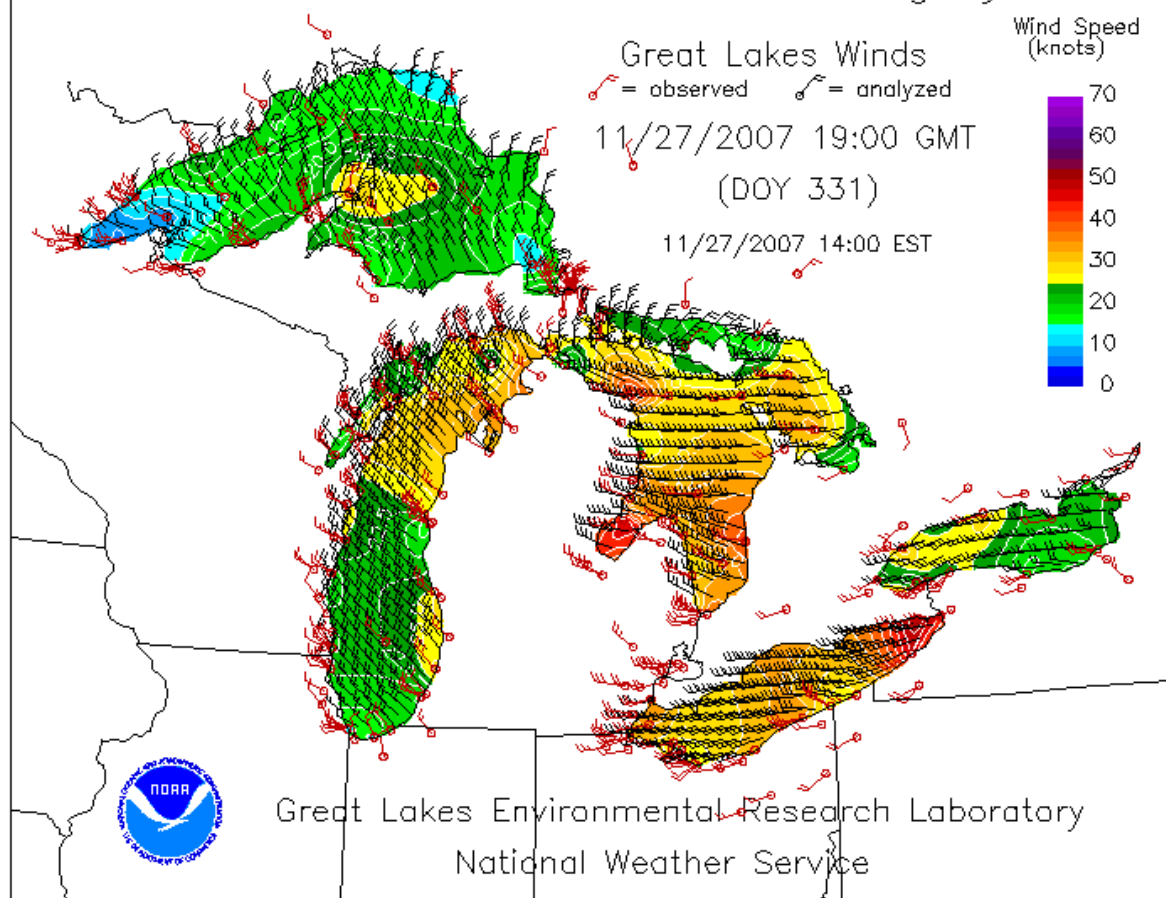
Lake Erie

Nov 27, 2007

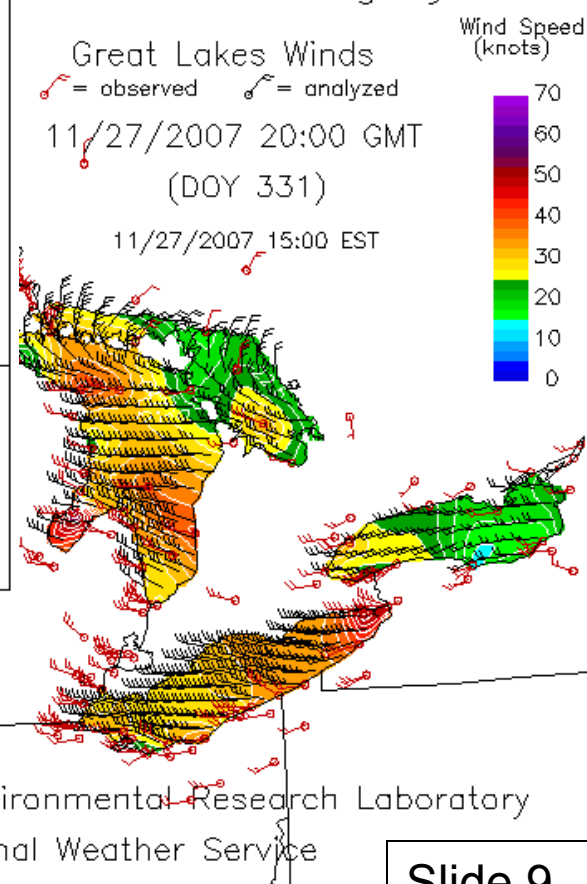
2:00 & 3:00 PM

Wind direction & speed

NOAA Great Lakes Coastal Forecasting System



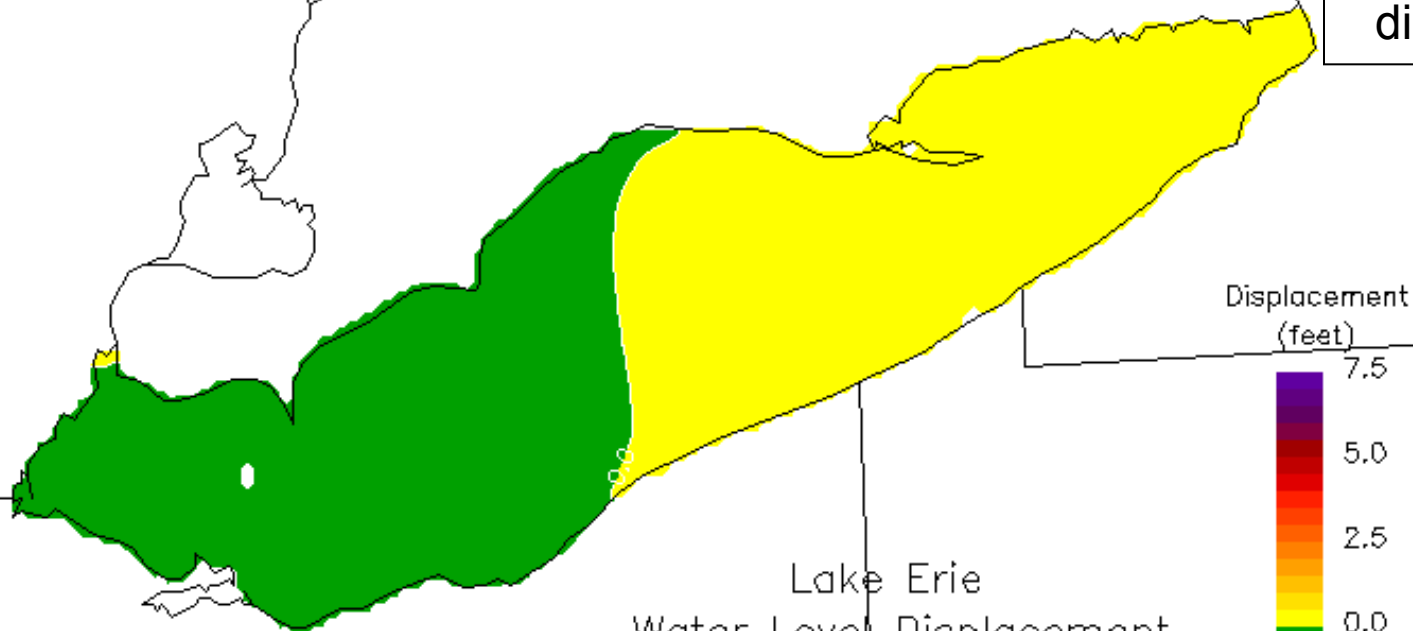
Coastal Forecasting System



Slide 9

NOAA Great Lakes Coastal Forecasting System

Lake Erie
Nov 28, 2007
7:00 AM
Water
displacement



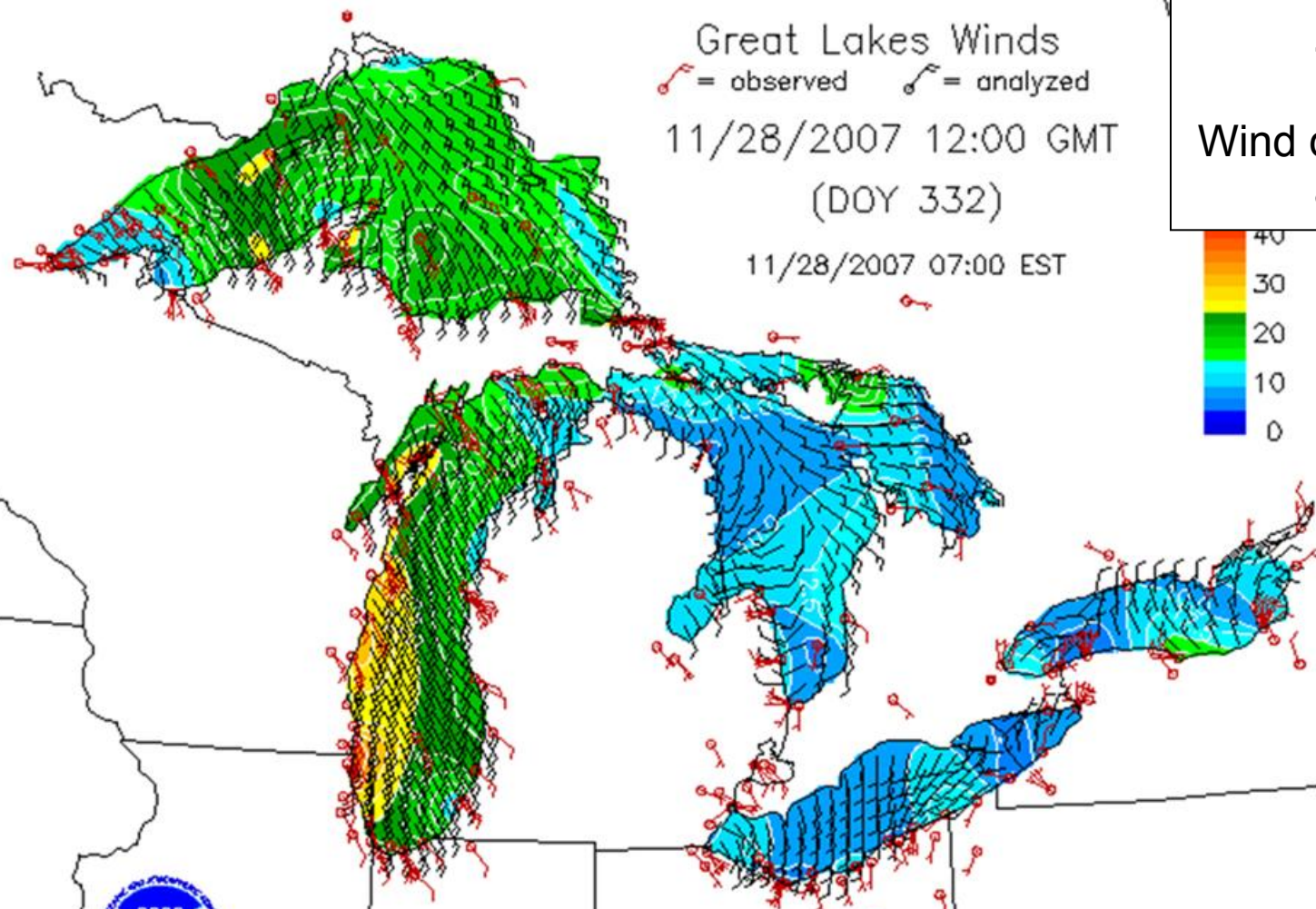
Daily average water level at
Cleveland tide gauge = 570.0 ft (DOY 331)
Chart datum (IGLD1985) = 569.2 ft



Lake Erie
Water Level Displacement
11/28/2007 12:00 GMT
(DOY 332)

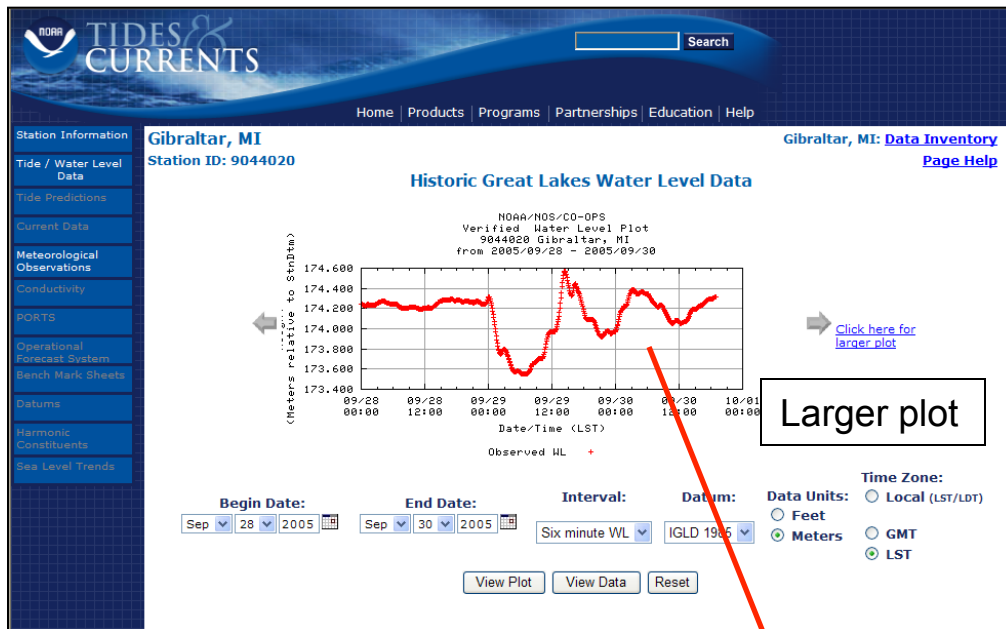
National Weather Service
Great Lakes Environmental Research Laboratory

NOAA Great Lakes Coastal Forecasting System



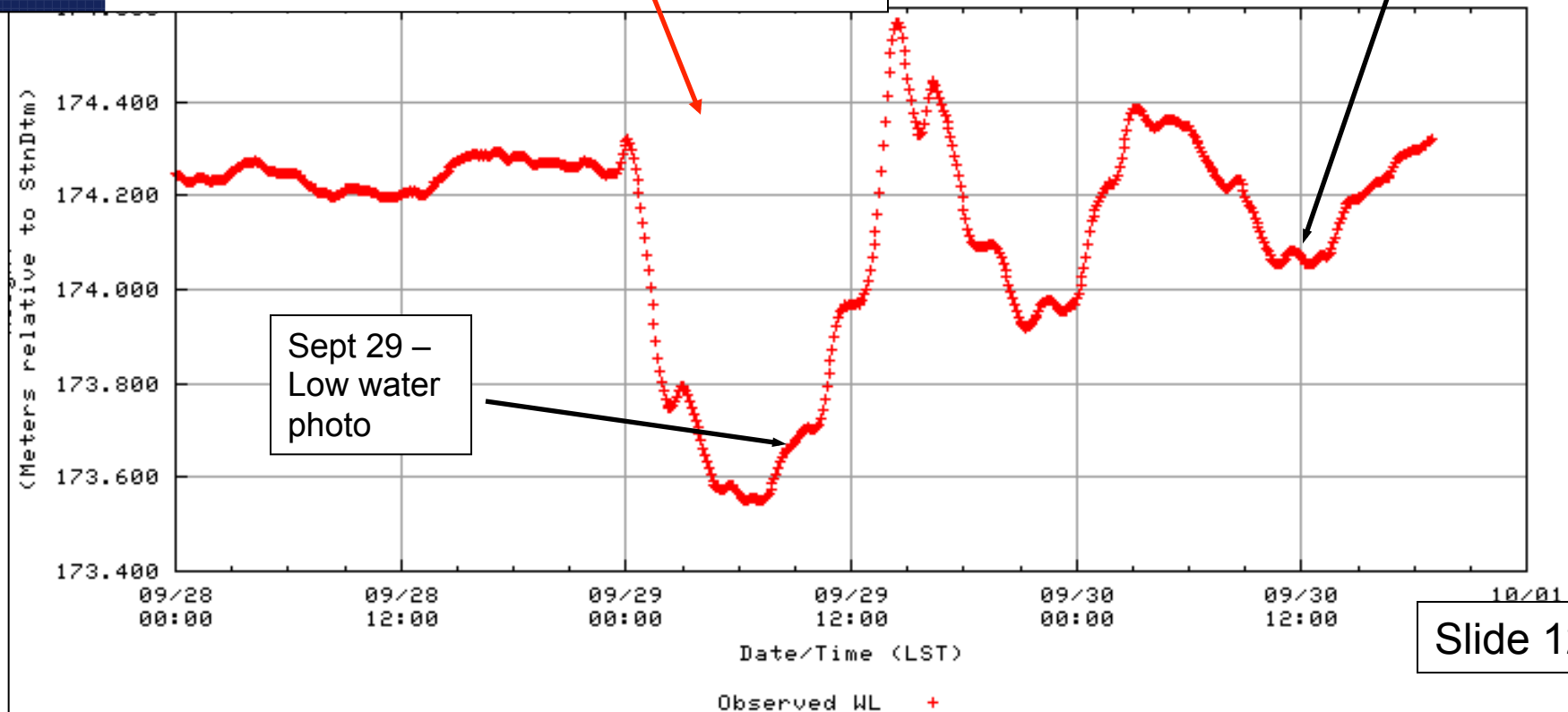
Great Lakes Environmental Research Laboratory
National Weather Service

Lake Erie
Nov 28, 2007
7:00 AM
Wind direction
& speed



NOAA Tides & currents - <http://tidesandcurrents.noaa.gov/>

Sept 30 –
High water
photo



Slide 12

9/29/2005 – 9:36 AM



Photo: Steve Stewart, Michigan Sea Grant

9/30/2005 – 12:18 PM



Photo: Steve Stewart, Michigan Sea Grant

Slide 14

NOAA/NOS/CO-OPS
Preliminary 6 Minute Water Level (V1) Plot
9044020 Gibraltar, MI
from 09/28/2005 - 10/03/2005

