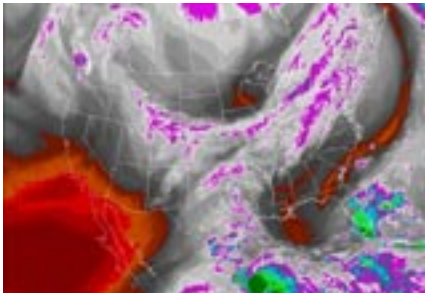


Weather Makers: Understanding Low Pressure Systems



Low pressure systems have a long association with bad weather, and their passage often produces strong, gusty and shifty winds; steep waves; damaging thunderstorms; and abrupt temperature changes. This presentation will introduce and examine the features that comprise low pressure systems such as stationary fronts, cold fronts, warm fronts, and occluded fronts.

Learn what type of wind and weather to expect from each sector of the system. The presentation will also review the online forecasting graphics that predict the formation, transition and movement of these weather makers.



Presentation Outline

- Air masses
- Frontal boundaries
 - Stationary fronts
 - Cold fronts
 - Warm fronts
 - Occluded fronts
- Low pressure system formation, development, and movement
- Weather by sector
- Predicting low pressure systems

LakeErieWX also offers two **full-day seminars**—*Basic Marine Weather Forecasting* and *Advanced Wind Forecasting: A Workshop for Sailors*. Details at www.lakeeriewx.com/Seminars/Seminars.html.

Mark Thornton—Speaker Biography

Mark Thornton began sailing on Lake Erie in 1994 and he currently owns *Osprey*, a 1985 C&C 35. His interest in weather forecasting grew from his experiences cruising and racing on the Lake. Mark is a 2006 graduate of the Penn State University Certificate of Achievement in Weather Forecasting, a two-year program that develops skills in general, tropical, and severe weather forecasting. He maintains a website (www.LakeErieWX.com) devoted to marine weather education and forecasting resources, and is the current president of the local chapter of the American Meteorological Society. Mark is employed as the Vice-President of Administration for the law firm of Wegman, Hessler & Vanderburg, and as a Teaching Assistant in the Certificate of Achievement in Weather Forecasting Program at Penn State University.

For more information

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