



# LakeErieWX

*Marine Weather Education and Forecasting Resources*

**Marine Weather Seminars**

**Case Studies**

**Forecasting Resources**

## Interpreting Surface Weather Maps

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LakeErieWX: Marine Weather Education and Forecasting Resources

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### **Presentation Description**

Weather forecast maps use a confusing collection of symbols, meteorological shorthand, timekeeping systems, and color schemes to display current and future weather patterns. The symbols identifying high and low pressure systems, frontal boundaries, troughs, ridges, tropical cyclones and other meteorological features will be introduced. Wind forecasting graphics such as wind barbs, streamlines, and wind vectors will also be examined.

### **Presentation Outline**

#### **Weather Maps**

- Barometric pressure
- Air masses
- Frontal boundaries and other surface weather features
  - Isobars
  - Low pressure
  - Stationary fronts
  - Cold fronts
  - Warm fronts
  - Occluded fronts
  - Troughs
  - High pressure
  - Ridges
  - Tropical cyclones
- Meteorological Time
- Interpreting surface forecast maps
- Color shading
- Wind forecast graphics
  - Wind barbs
  - Streamlines
  - Wind Vectors
- Wave forecasting graphics
- Weather forecast models