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What Drives The Winter Pattern

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Forecasting Methods: Other Methods

- **Climatology**: averaging weather statistics over many years to forecast weather.
- **Analog Method**: examining the current weather and thinking back to a past date where the weather was similar and then assuming the weather will behave the same way again.
- **Numerical Weather Prediction**: using complex computer programs (forecast models) to predict weather based on equations and formulas.
Ocean Temperatures

NOAA/NESDIS SST Anomaly (degrees C), 10/15/2018
El Niño is favored to form in the next couple of months and continue through the Northern Hemisphere winter 2018-19 (70-75% chance).
Understanding Jet Stream Positioning

Great Lake Temperatures

NOAA Great Lakes Coastal Forecasting System

Great Lakes Water Temps
10/16/2018 03:00 GMT
(DOY 289)
10/15/2018 23:00 EDT

Great Lakes Environmental Research Laboratory
National Weather Service
Lake Effect

Long Range Temperature Outlooks

Jan – Feb - March

Dec – Jan - Feb
Long Range Precipitation Outlooks

Dec - Jan – Feb

Overall Winter Temperature Outlook

Above Normal
Below Normal
Understanding Jet Stream Positioning

Active Weather Outlook
Most Winter Storms Converge on Southern Ontario

Alberta Clippers
Colorado Lows
Texas Lows
Gulf Lows

Formation areas and tracks of typical winter storms

Any Questions?

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