

# Cross Section Analysis in MetPy

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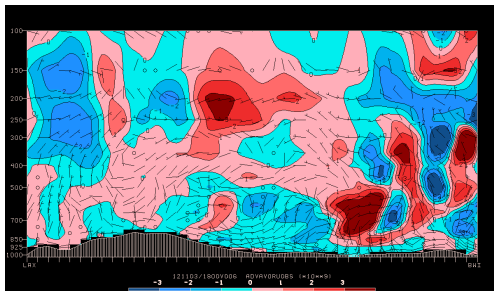
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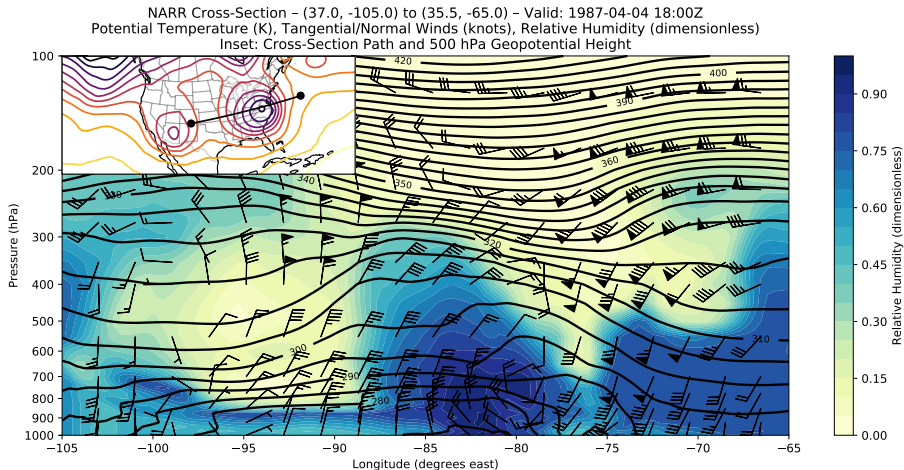
# Vertical Cross Sections

Often used in analysis of:

- Convective systems
- Isentropic ascent
- Tropopause folds
- Conditional Symmetric Instability (CSI)

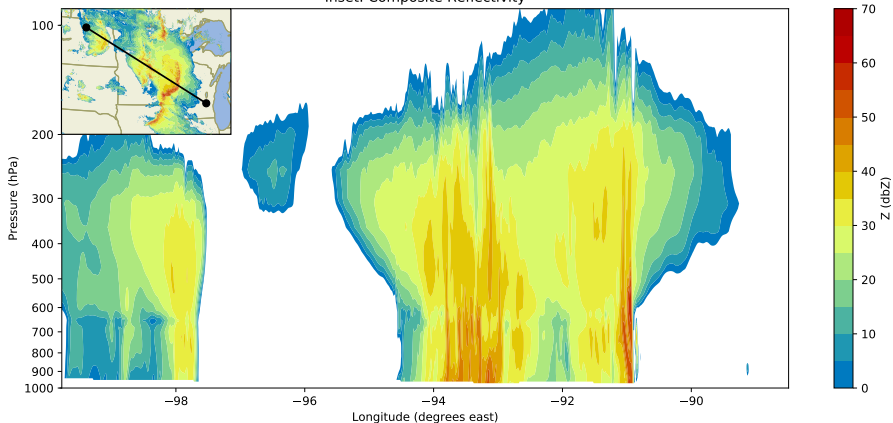


# Examples from MetPy

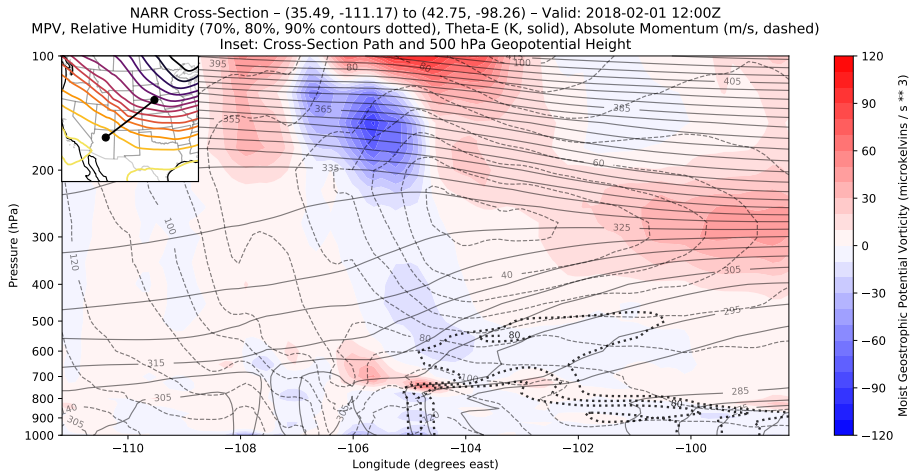


# Examples from MetPy

WRF Simulated Reflectivity - 2015-07-13 05:00Z Forecast  
Initialized 2015-07-12 12:00Z, Thompson Microphysics, MYJ PBL  
Inset: Composite Reflectivity



# Examples from MetPy



# How It Works

Stop by the poster (288) to find out more...

# How It Works

...but the short answer is xarray.

```
import xarray as xr
from metpy.interpolate import cross_section

# Parse for CRS and coordinate types
data = xr.open_dataset('data.nc').metpy.parse_cf()

# Interpolate to cross-sectional slice
cross = cross_section(data, (37.0, -105.0), (35.5, -65.0))
```