

Cross Section Analysis in MetPy

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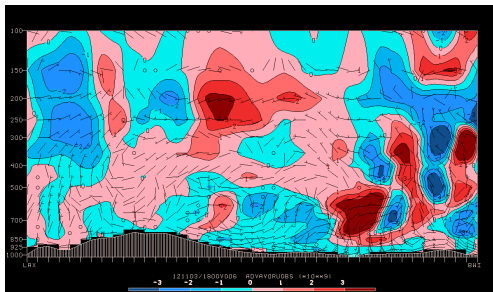
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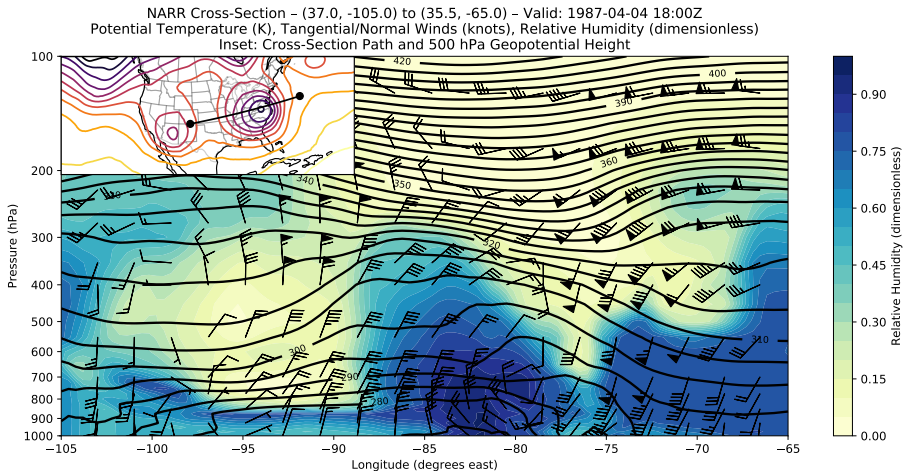
Vertical Cross Sections

Often used in analysis of:

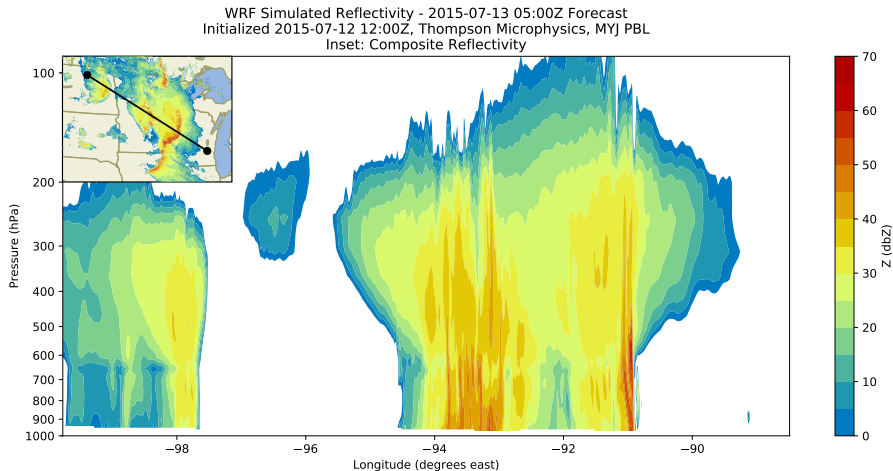
- Convective systems
- Isentropic ascent
- Tropopause folds
- Conditional Symmetric Instability (CSI)



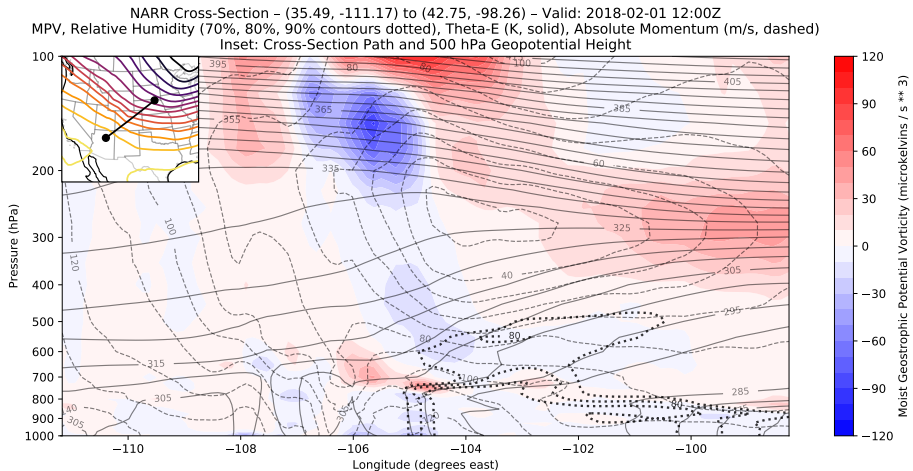
Examples from MetPy



Examples from MetPy



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))
```