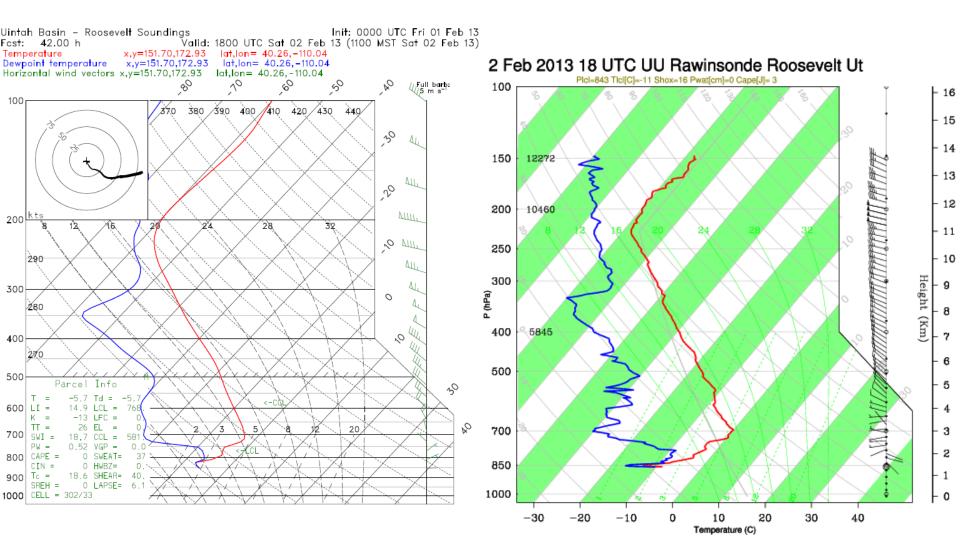
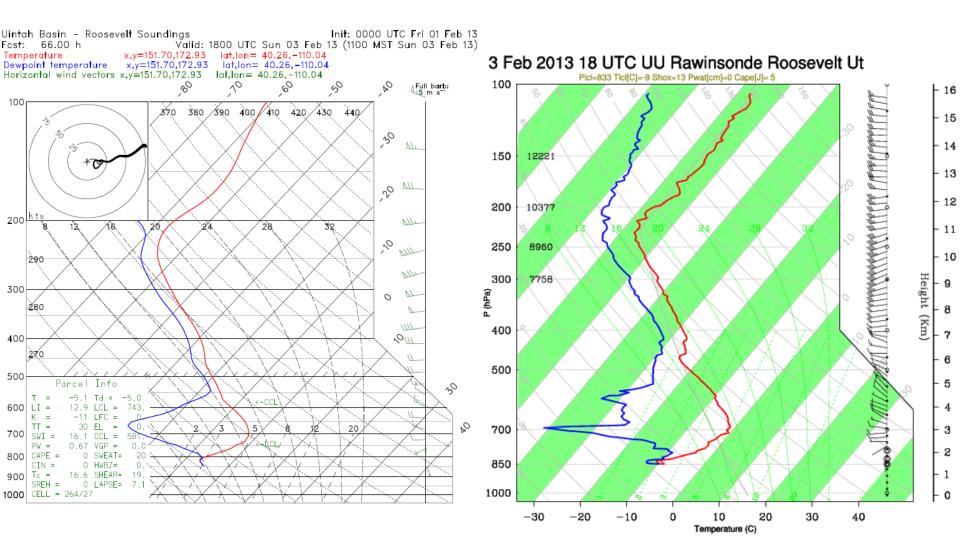
Comparison Between Observed Soundings and WRF Model Soundings at the UU Roosevelt Site

1-7 February 2013 Erik Neemann

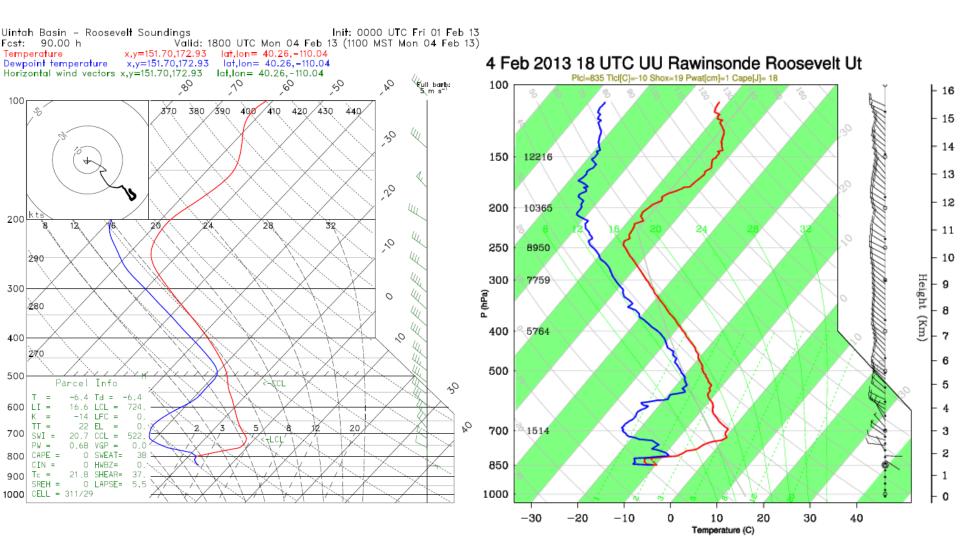
- Overall temperature profile well-represented above 800mb
- Near surface temps 6 C too warm
- Accurate inversion height to around 700mb, but 2 C too cool
- WRF 600-700mb winds a little too strong and northerly



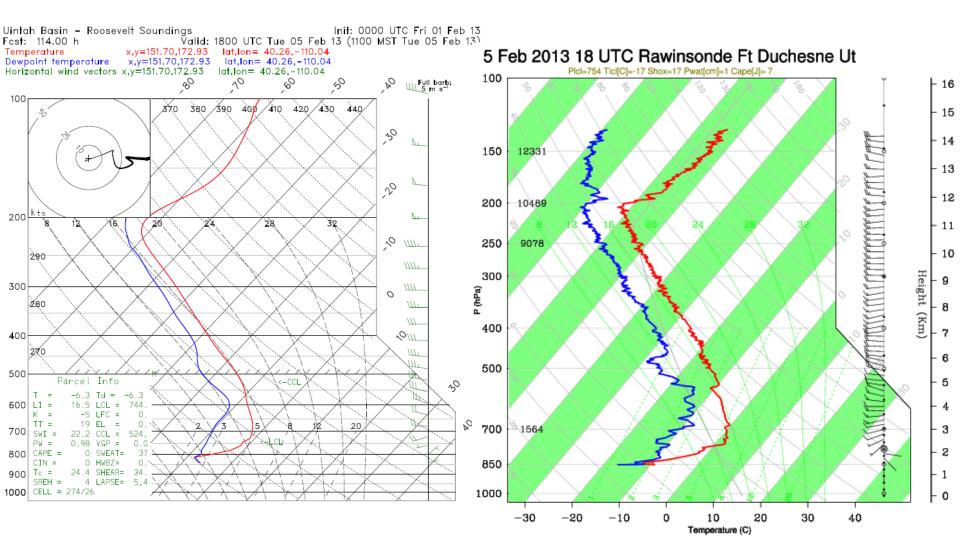
- Overall temperature profile well-represented to 800mb
- WRF too moist below 800mb
- Near-surface temperature 4-5 C too cool
- Accurate winds throughout profile



- Temp profile very good to 800mb, perhaps 2 C too warm at 800mb
- Too moist below 800mb
- Inversion height handled well, temp within 1 C
- Accurate winds throughout profile



- Overall temp/moisture profile very good
- Temp not cold enough near surface (below 800mb), too much moisture
- Inversion height well modeled with thin isothermal layer near 750mb
- Temp at top of inversion about 3 C too cool
- Accurate winds throughout profile



- Accurate inversion height around 750mb
- Too moist at surface by ~4 C dewpoint
- Entire profile above 800mb too dry
- Light easterly winds observed above inversion, WRF has westerly at 10 m/s

