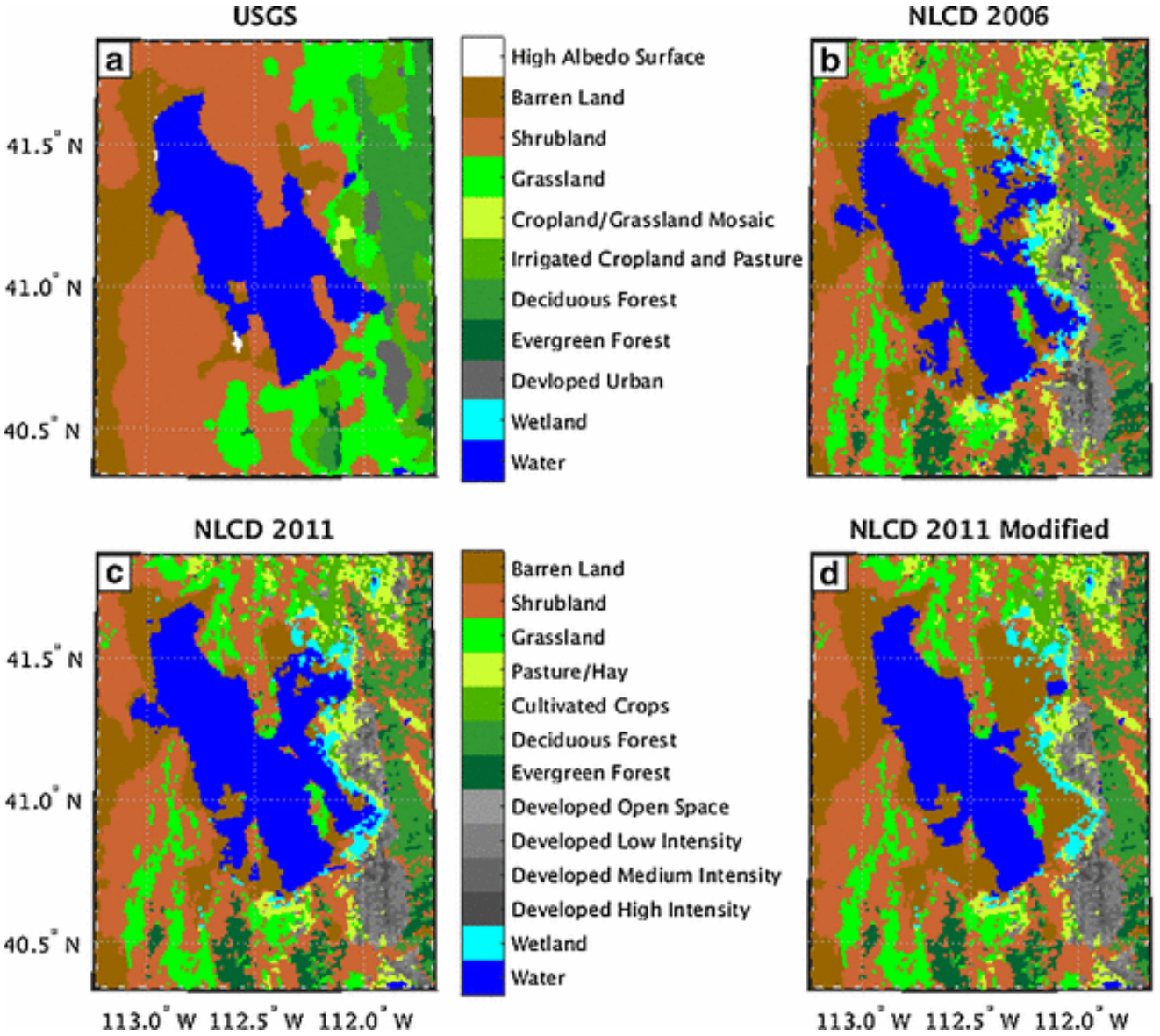
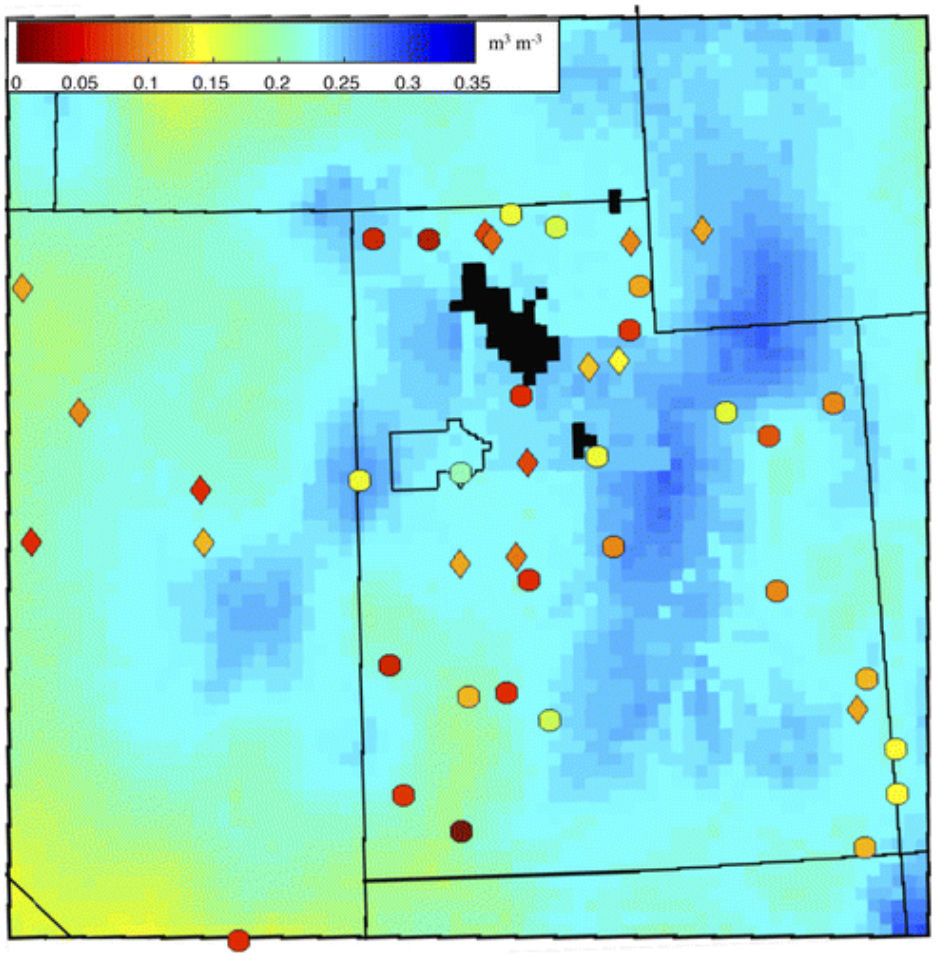
Erik Crosman and John Horel

- Experience running Weather Research and Forecast (WRF) Model over complex terrain in northern Utah, Emphasis in stable conditions
- Numerous modifications to land use and surface state to improve stable simulations
- High-resolution simulations ranging from mesoscale (l km) to large-eddy simulation (250 m resolution)

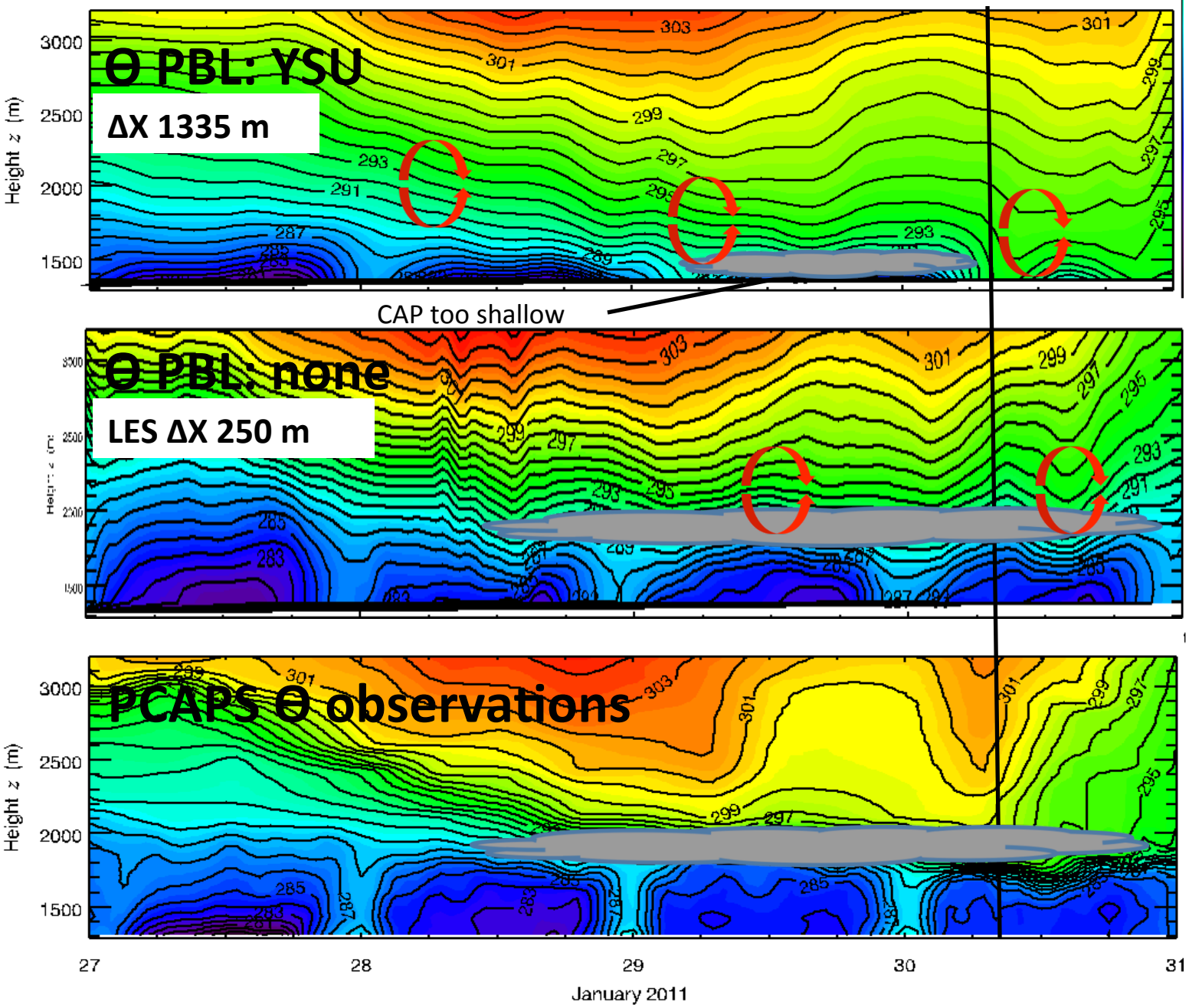


Foster, C., E.T. Crosman, and J.D. Horel, 2017: Simulations of a Cold-Air Pool in Utah's Salt Lake Valley: Sensitivity to Land Use and Snow Cover. In Press, to *Boundary-Layer Meteorology*

Soil Moisture Problems Massey et al. 2016



Improve Turbulent Mixing: Large-Eddy Simulation of CAP



- ✓Depth
- ✓Duration
- ✓Clouds
- ✓Physics

Important To verify **vertical profiles**

Crosman and Horel (2017)