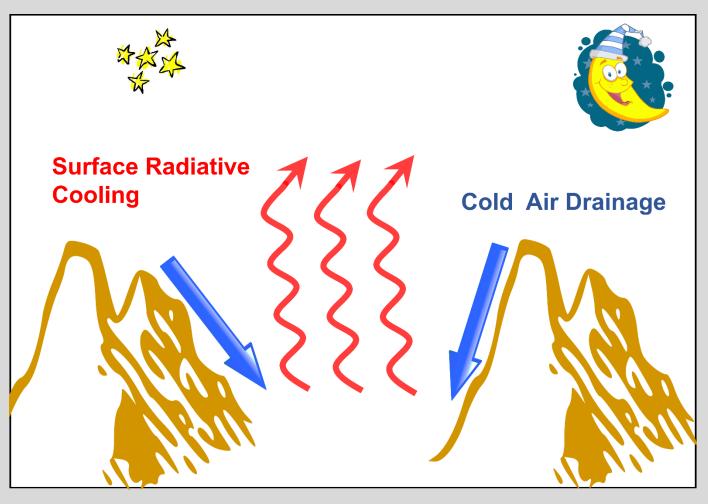


Simulation of the land-atmosphere exchange during persistent cold air pool events in Salt Lake Valley, Utah Xia Sun, Heather A. Holmes



are topographic

(PI: Whiteman, UU)

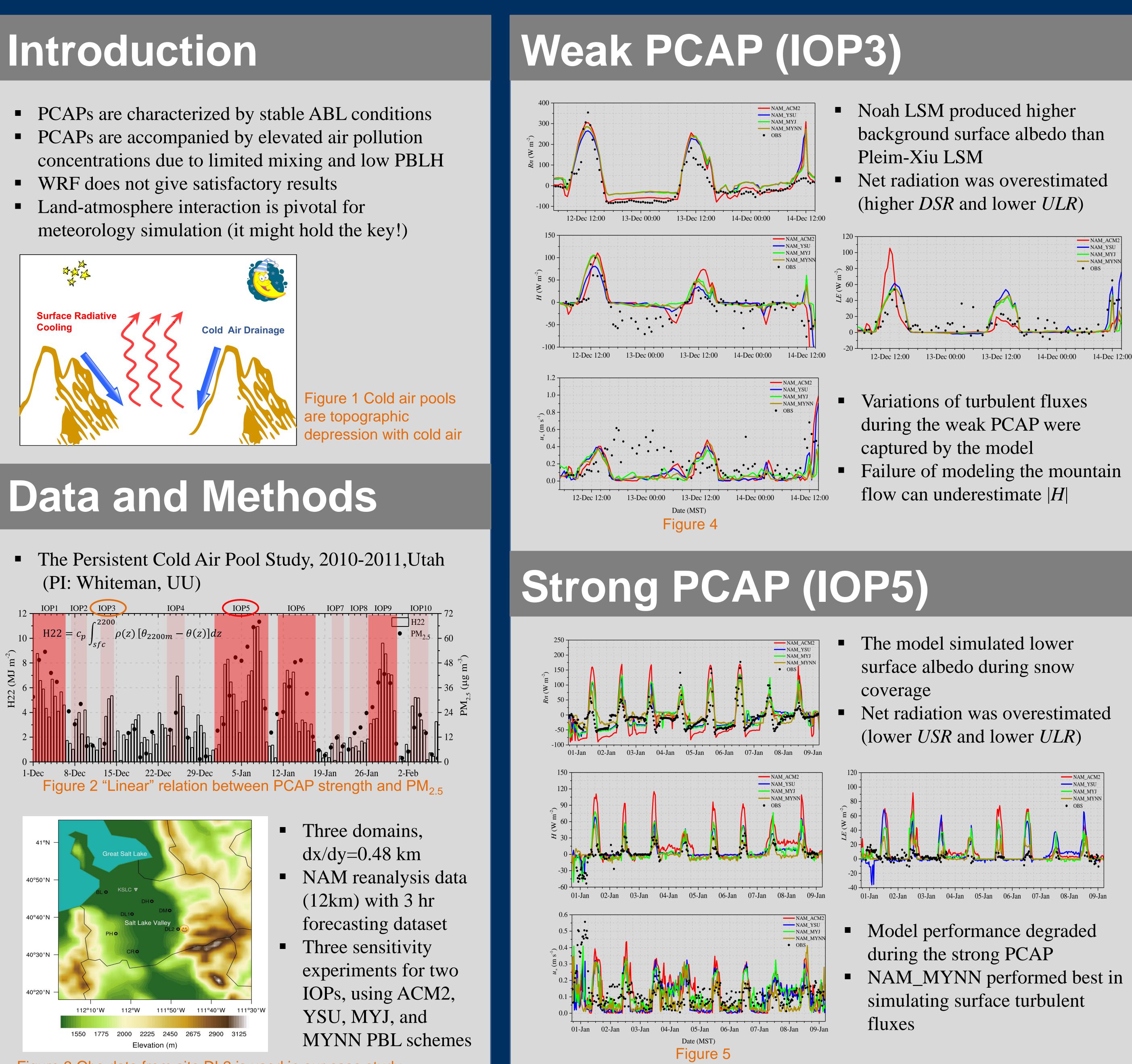
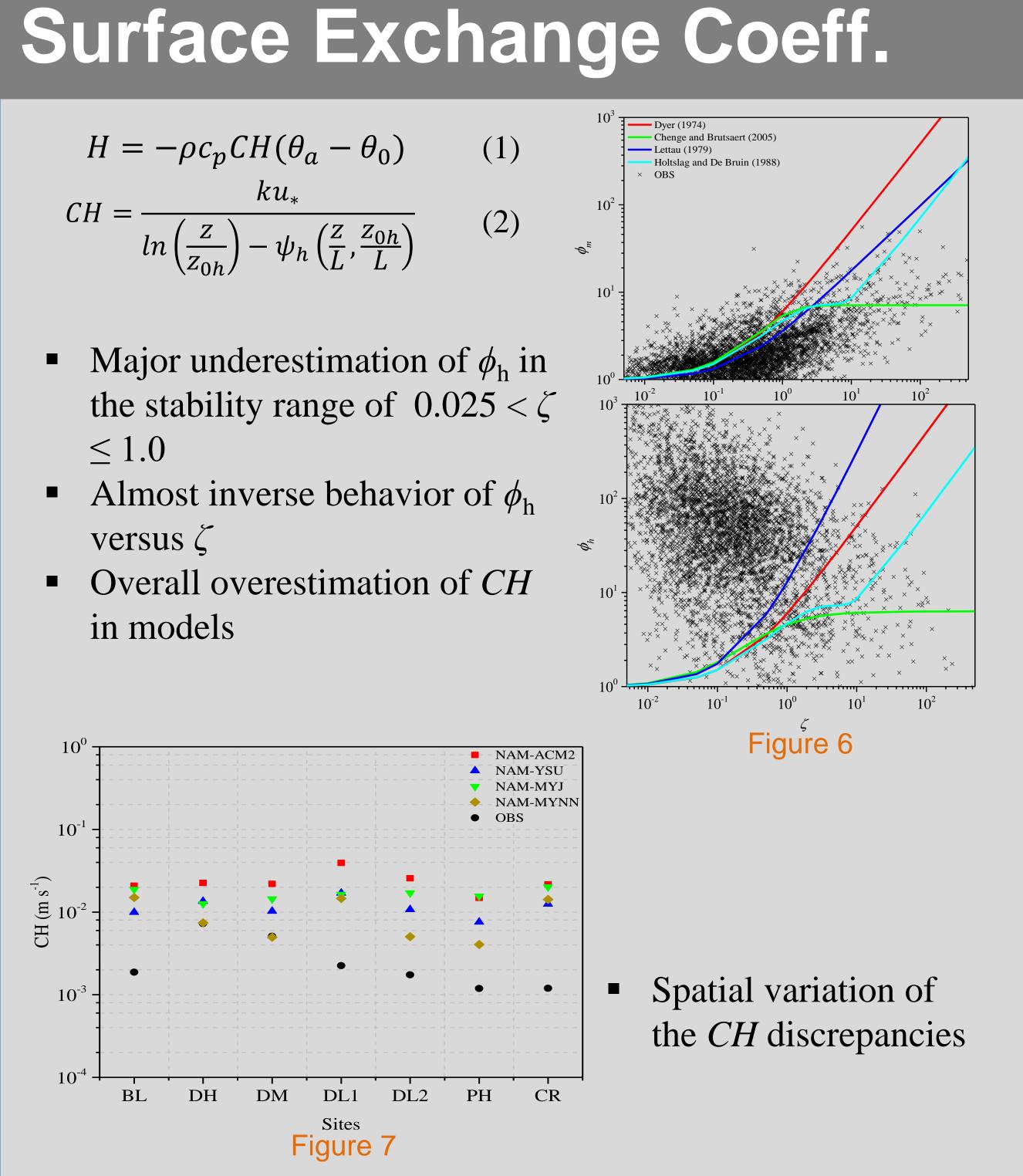


Figure 3 Obs data from site DL2 is used in our case study

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- ≤ 1.0
- versus ζ
- in models



Conclusions

- PCAP.
- The overestimated surface sensible and latent heat fluxes during the strong PCAP was related to the overestimated net radiation and soil moisture.
- The NAM_MYNN case produced the least bias in both net radiation and surface turbulent fluxes for the strong PCAP. The underestimation of non-dimensional vertical
- temperature gradient in stability functions based on the Monin-Obukhov theory was responsible for the *CH* discrepancies in the WRF model.



• The model performance in simulating surface energy fluxes degraded in the strong PCAP compared to the weak

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