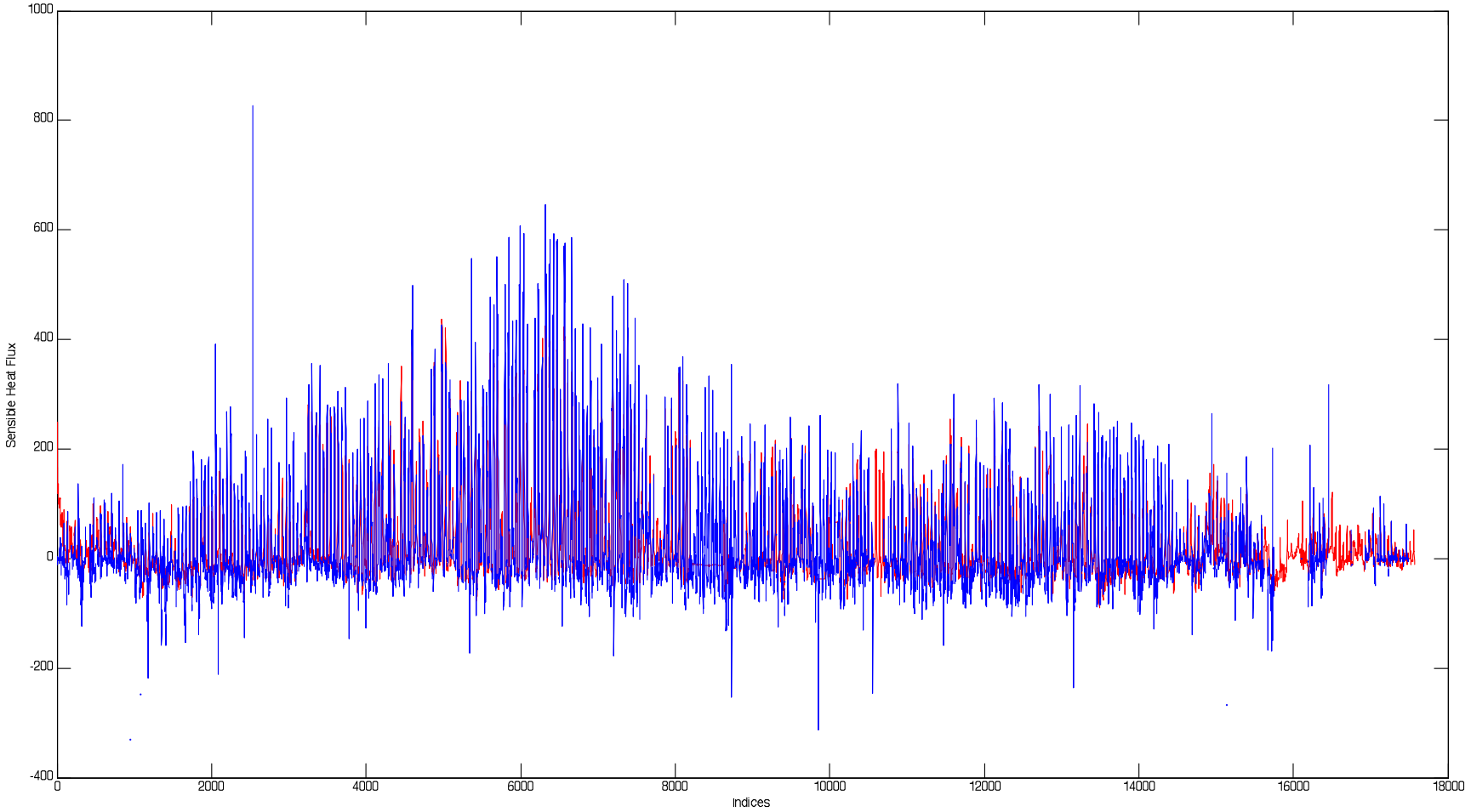
One-year Simulation with NOAH

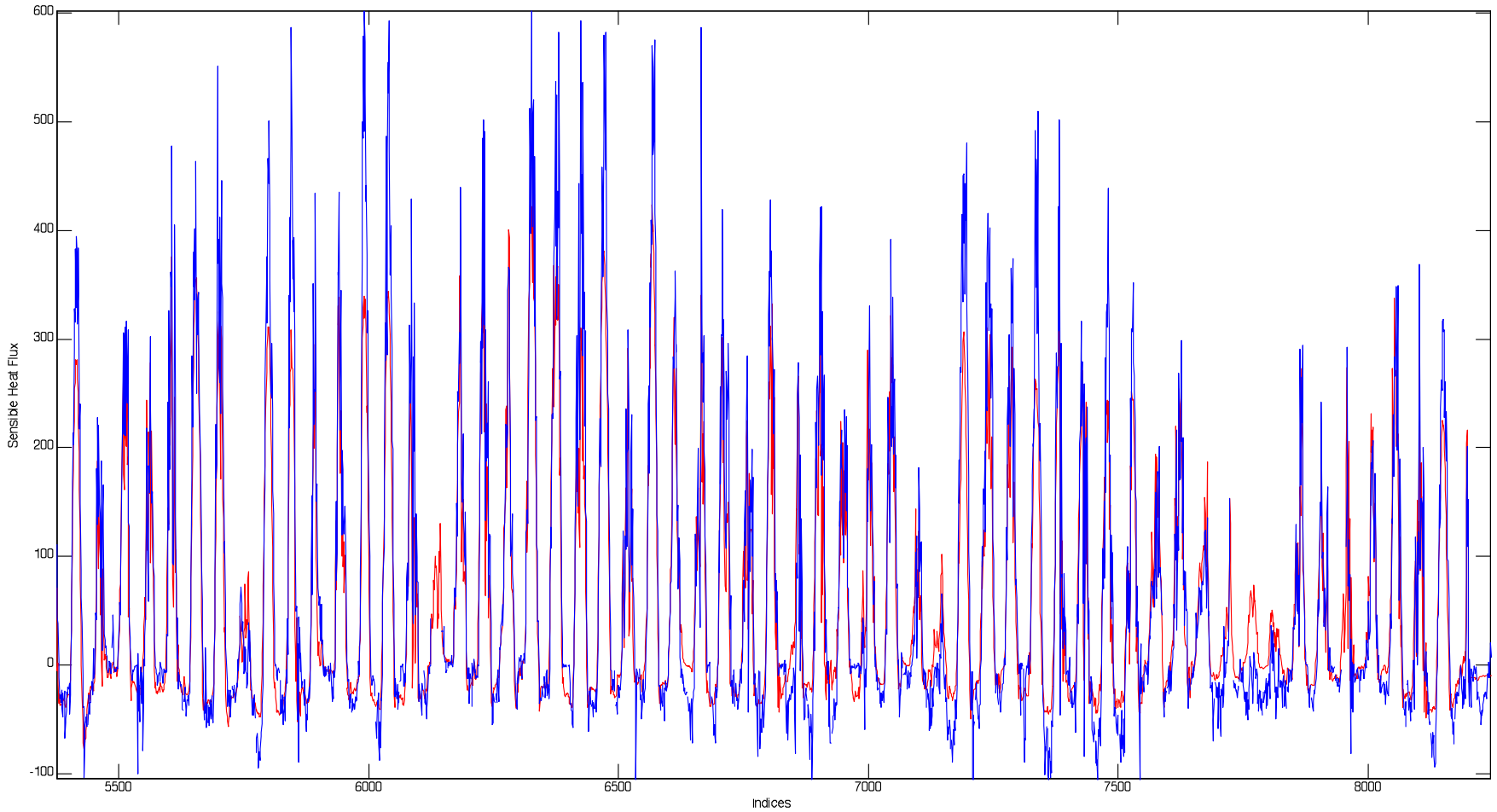
- Precipitation gap
  - OBS (Old Black Spruce) site
  - After filling-in, still some gaps

- Specified the parameters in the control file
  - Snow-free albedo
  - Snow-cover maximum albedo
  - Climo annual mean sfc temperature
  - Initial skin temperature, initial soil temperature (4 levels), initial soil moisture
  - ……

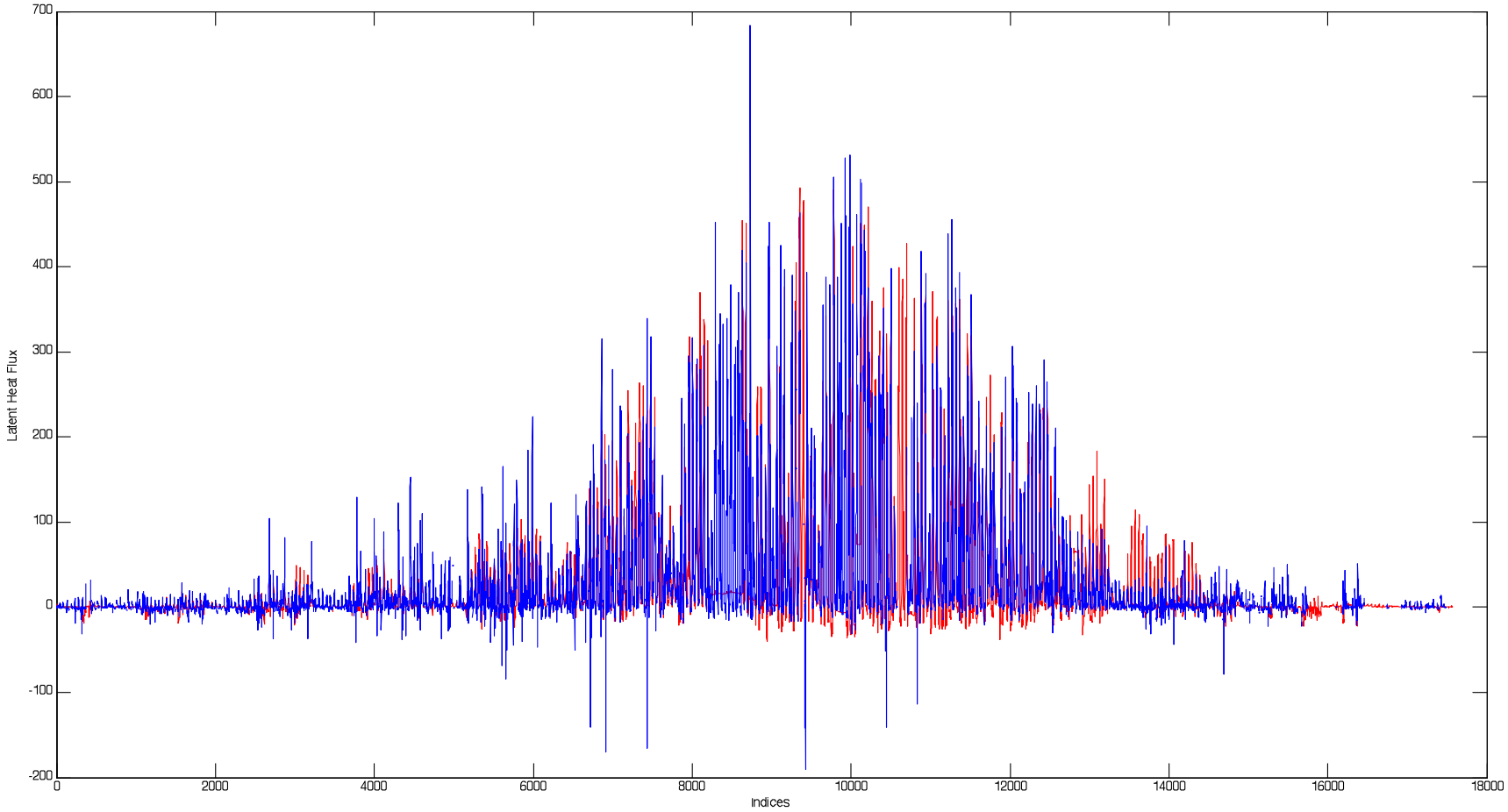
Turbulent Fluxes- SH



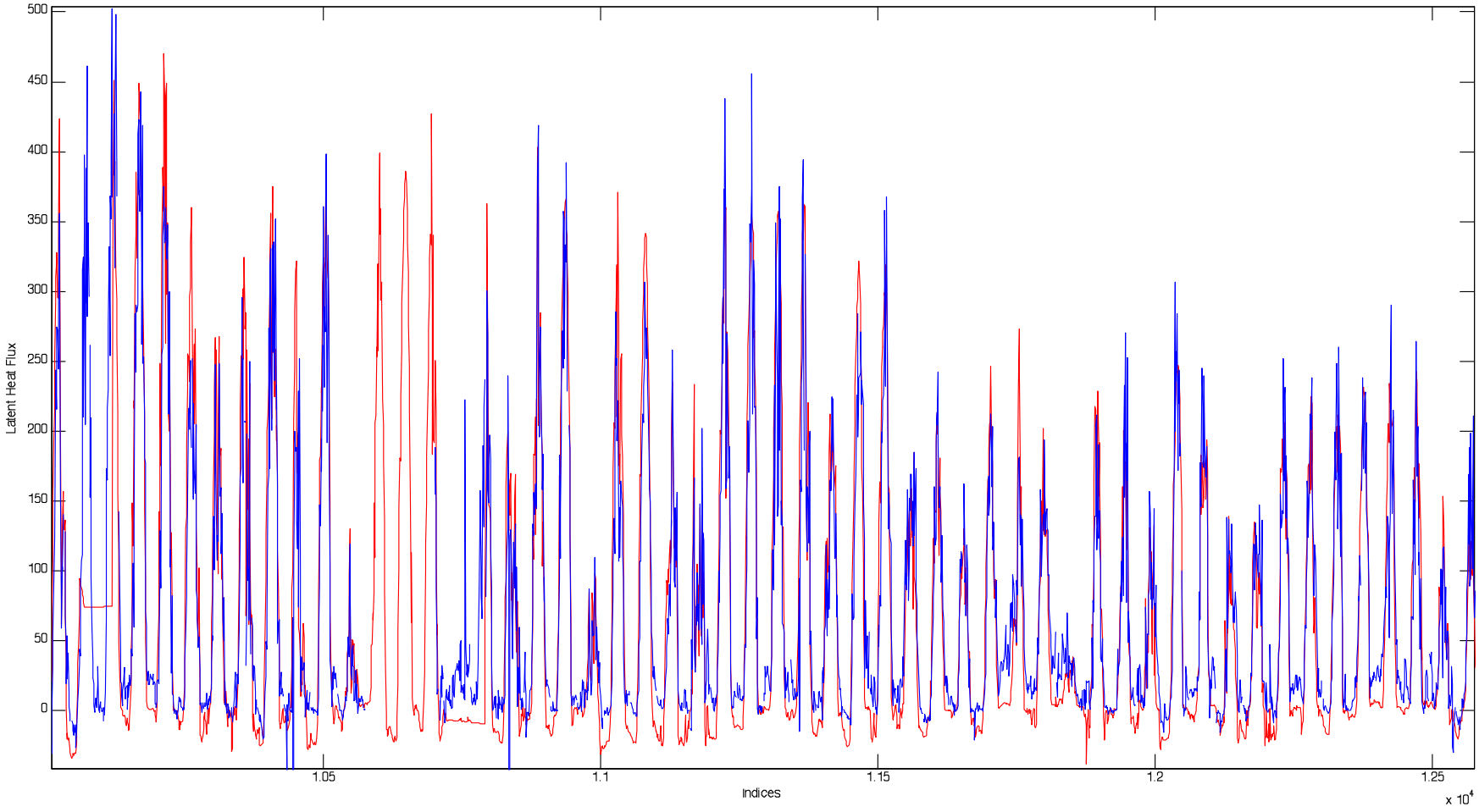
Turbulent Fluxes- SH (zoomed-in view)



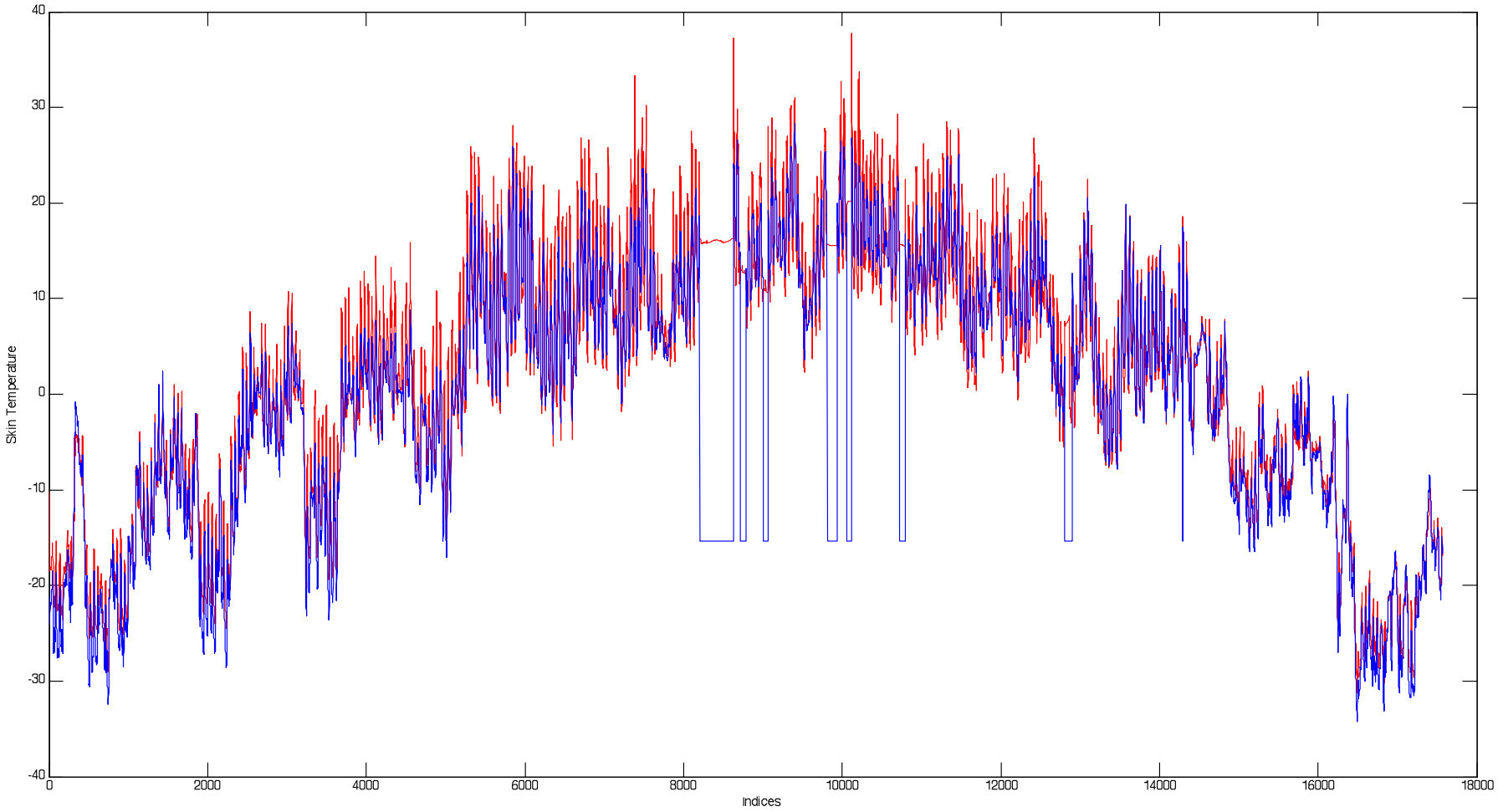
Turbulent Fluxes- LE



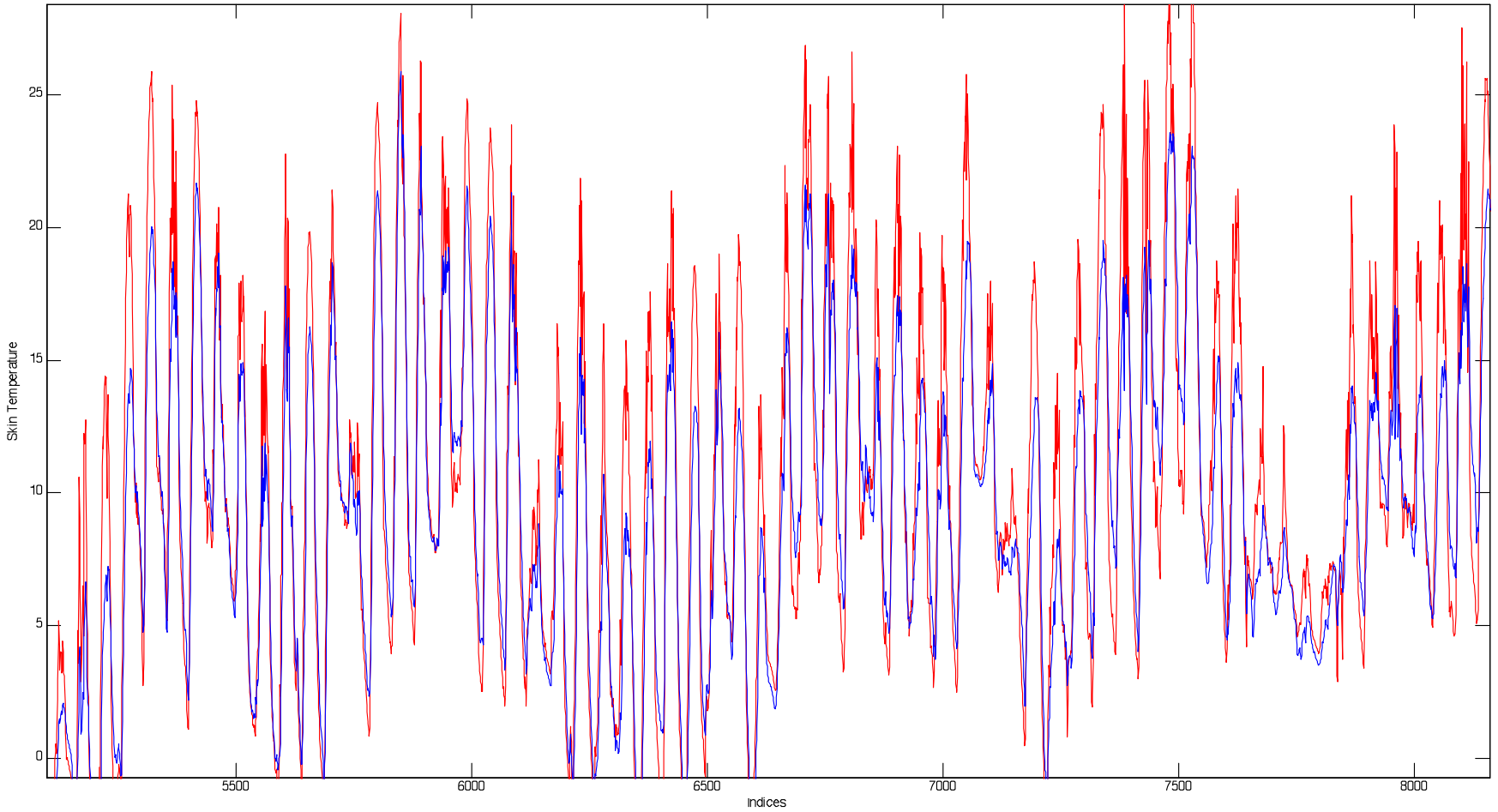
Turbulent Fluxes- LE (zoomed-in view)



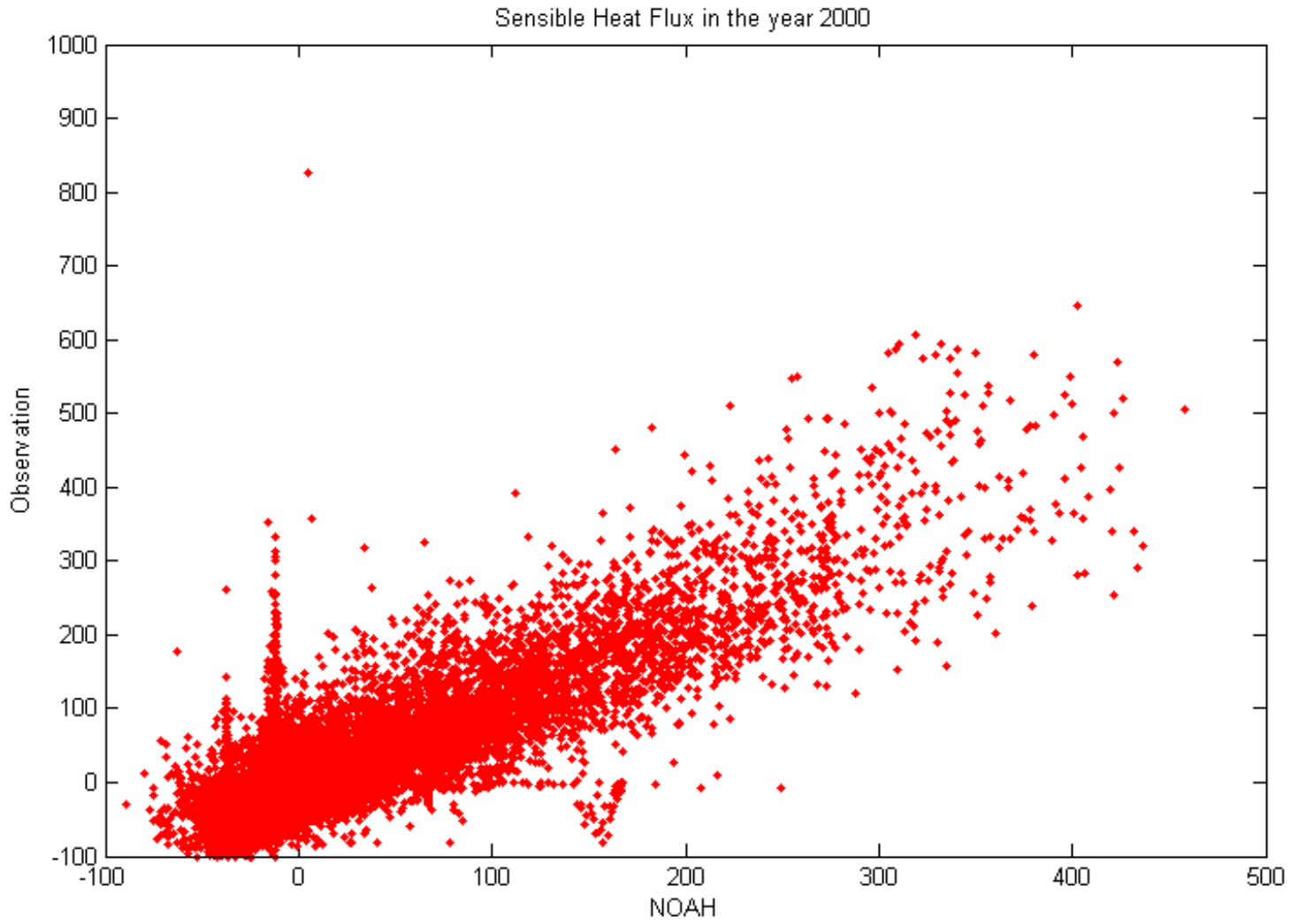
Surface (Skin) Temperature



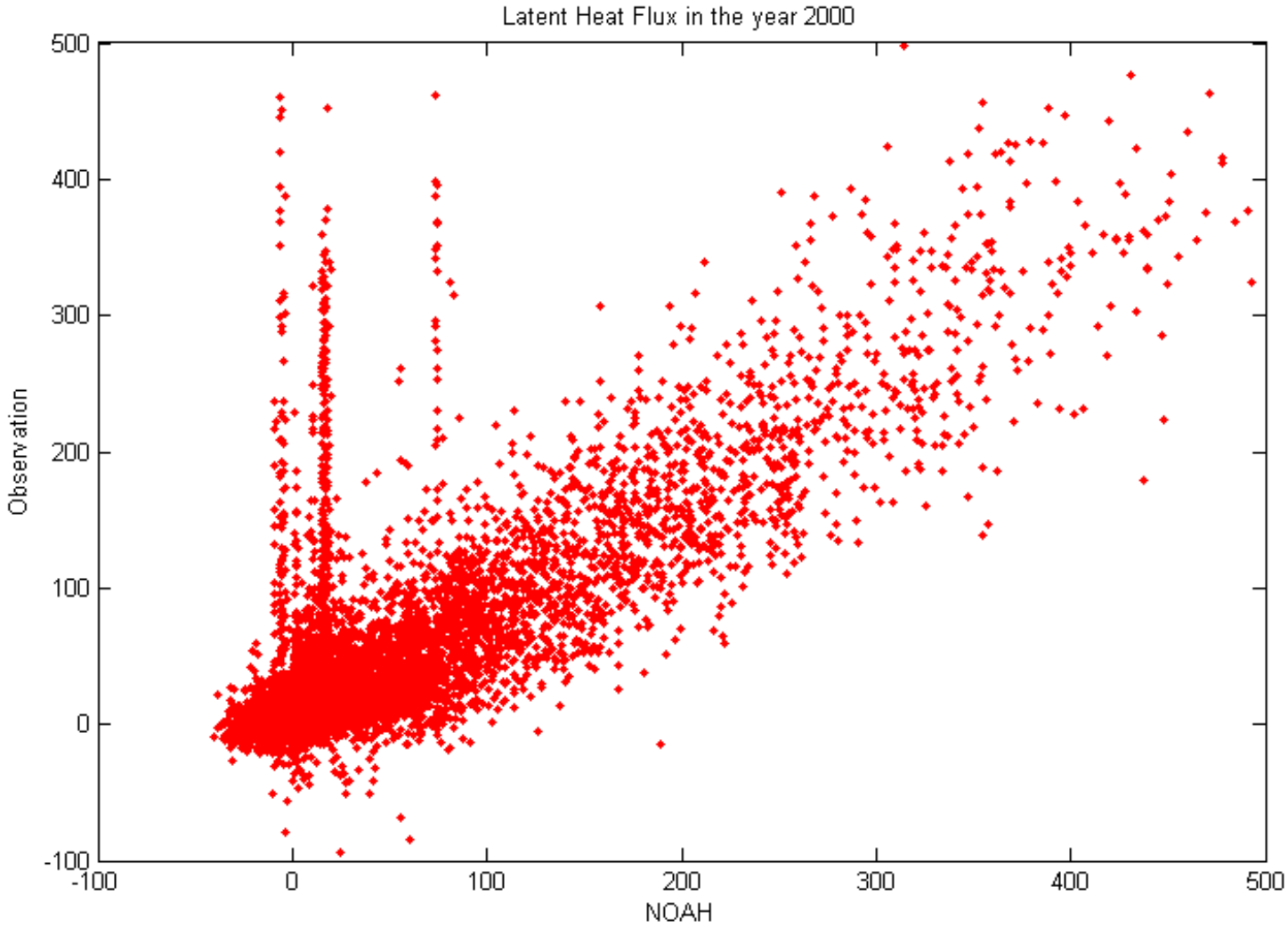
Surface (Skin) Temperature (zoomed-in view)



Stat. Check on Turbulent Fluxes



Stat. Check on Turbulent Fluxes



Snapshot of other people's ideas

- LSM: Model with residues– better results?

- ACASA (Advanced Canopy-Atmosphere-Soil Algorithm) -- by UC Davis
  - WRF PBL coupled with NOAH
  - WRF PBL coupled with ACASA