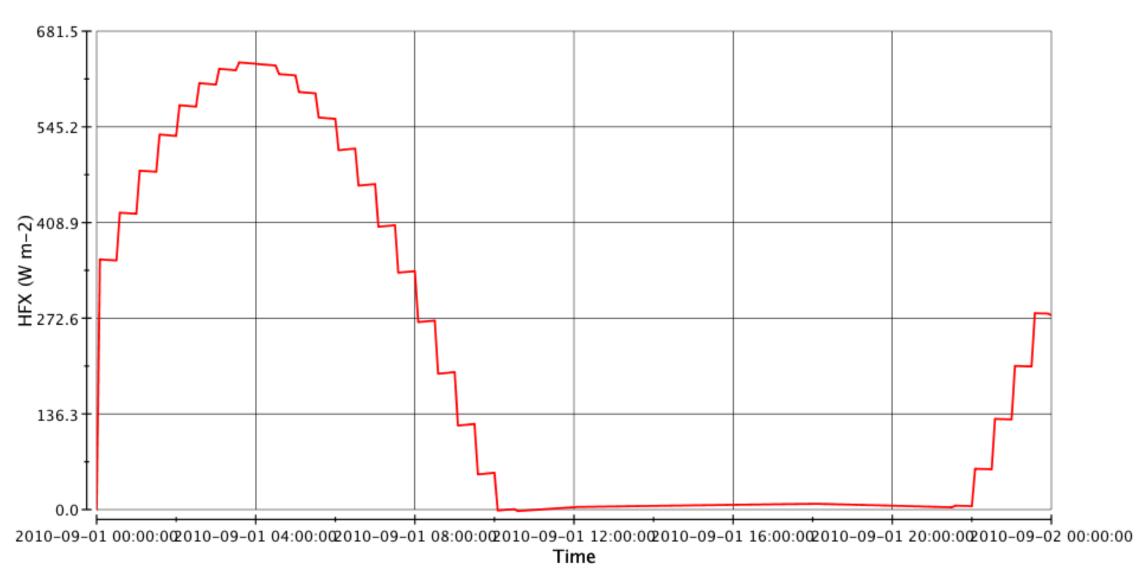
## Some Preliminary Results from the Coupled WRF-SUEWS System

Ting Sun & Zhenkun Li 12 Jun 2018

## Progress so far

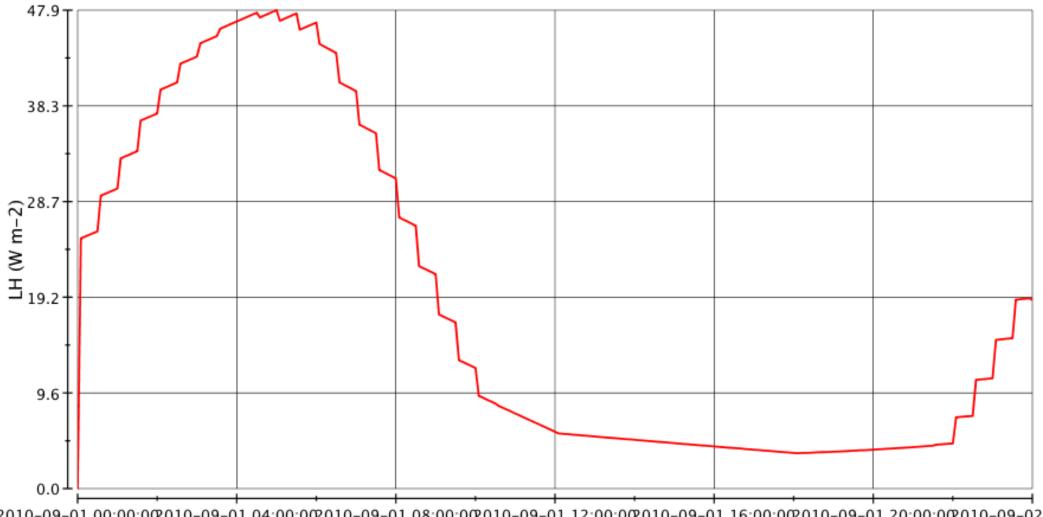
- A simplified version of SUEWS: SuMin (SUEWS-Mini)
- Multiple fixed parameters
- Variable forcing variables from the coupled system
- Variable surface turbulent fluxes to the coupled system
- A working system that can produce reasonable results:
  - Diurnal cycles
  - Spatial variation





Data Min = -2.0, Max = 637.0



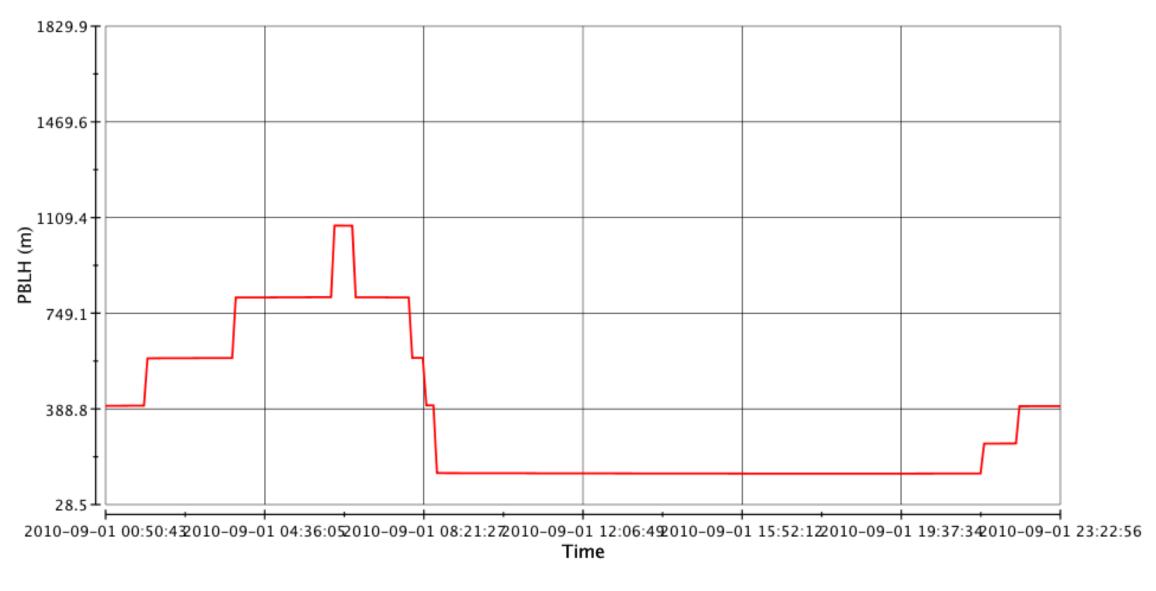


 $2010-09-01\ 00:00:00@010-09-01\ 04:00:0@010-09-01\ 08:00:0@010-09-01\ 12:00:0@010-09-01\ 16:00:0@010-09-01\ 20:00:0@010-09-02\ 00:00:00$  Time

---- LH (W m-2)

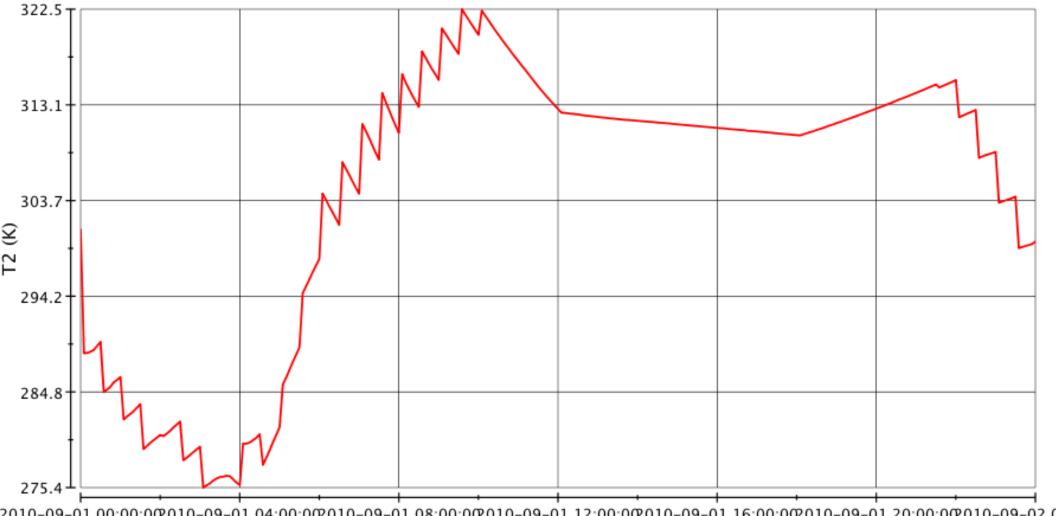
Data Min = 0.0, Max = 47.9





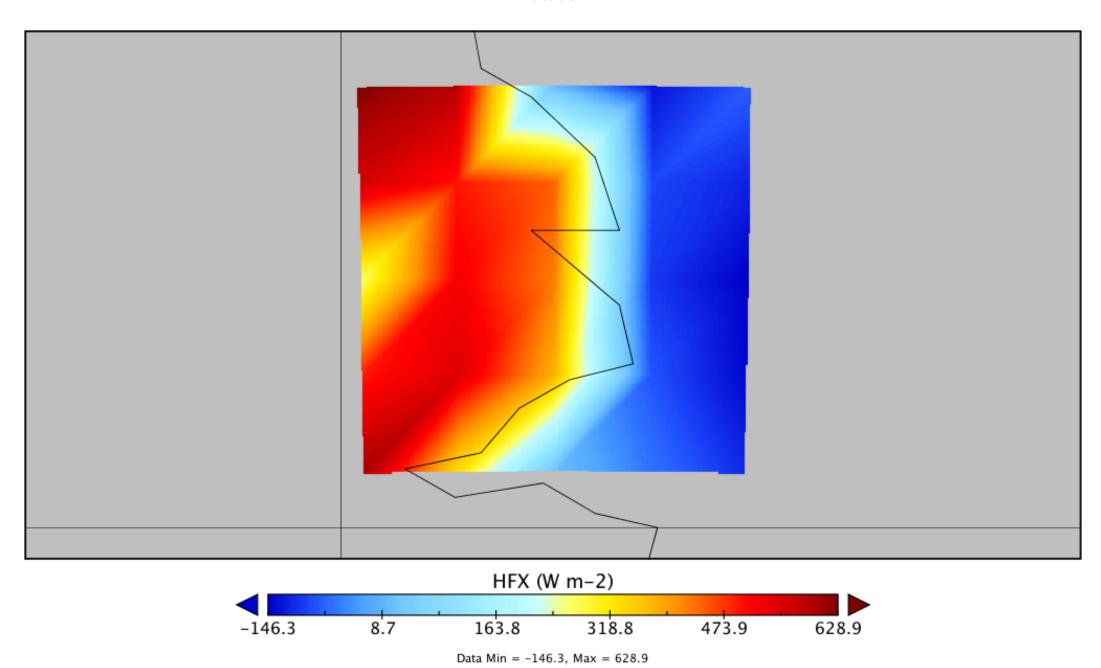
— PBLH (m)

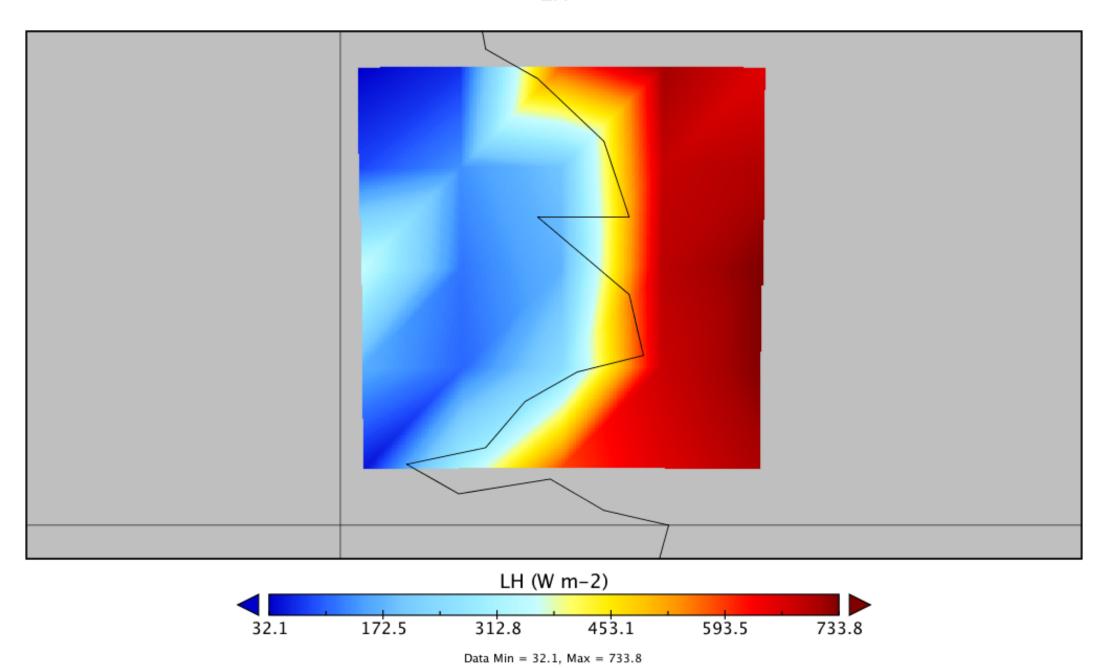
Data Min = 0.0, Max = 19887.7



 $2010-09-01\ 00:00:00@010-09-01\ 04:00:0@010-09-01\ 08:00:0@010-09-01\ 12:00:0@010-09-01\ 16:00:0@010-09-01\ 20:00:0@010-09-02\ 00:00:00$  Time

— T2 (K)





**PBLH** 

