

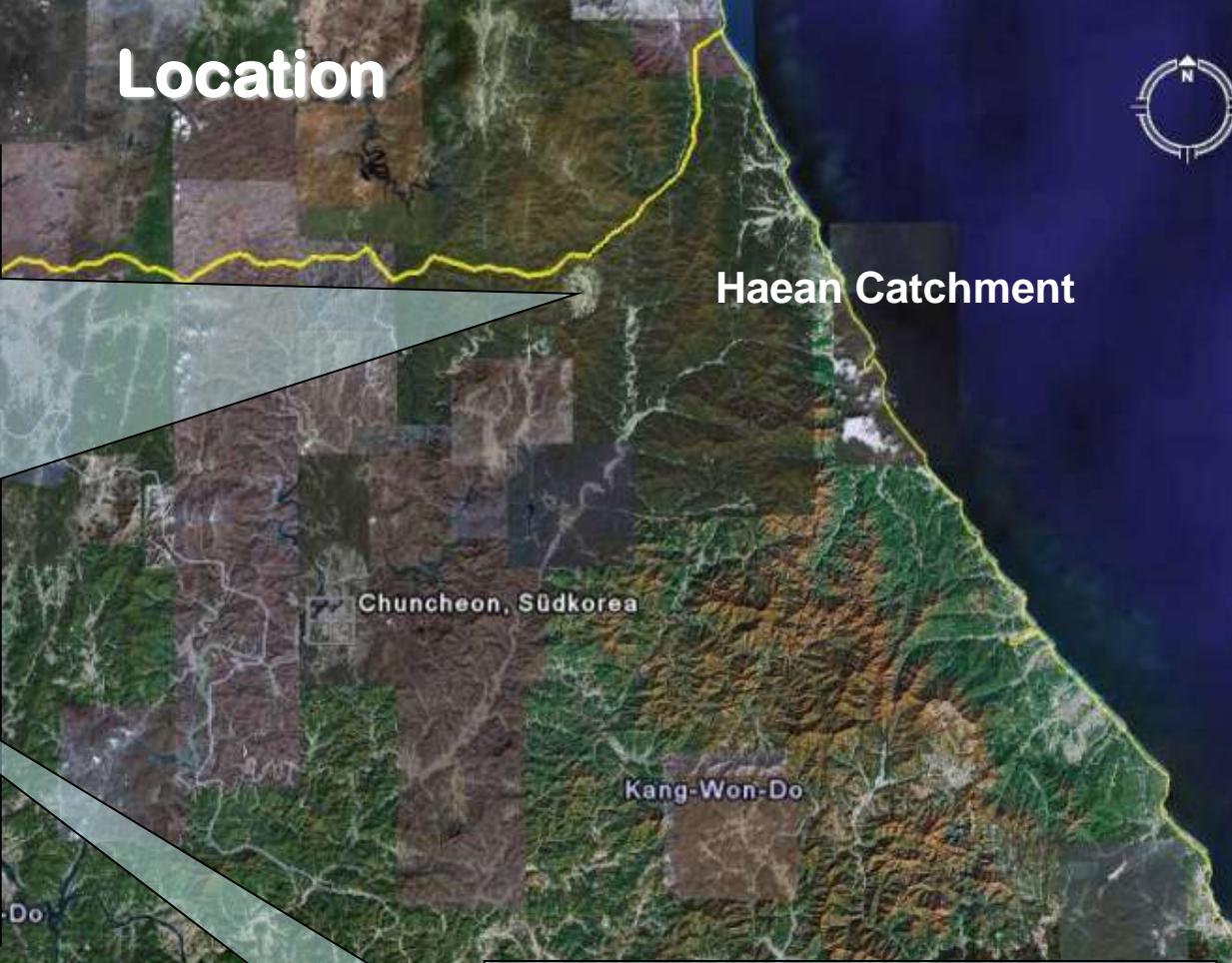
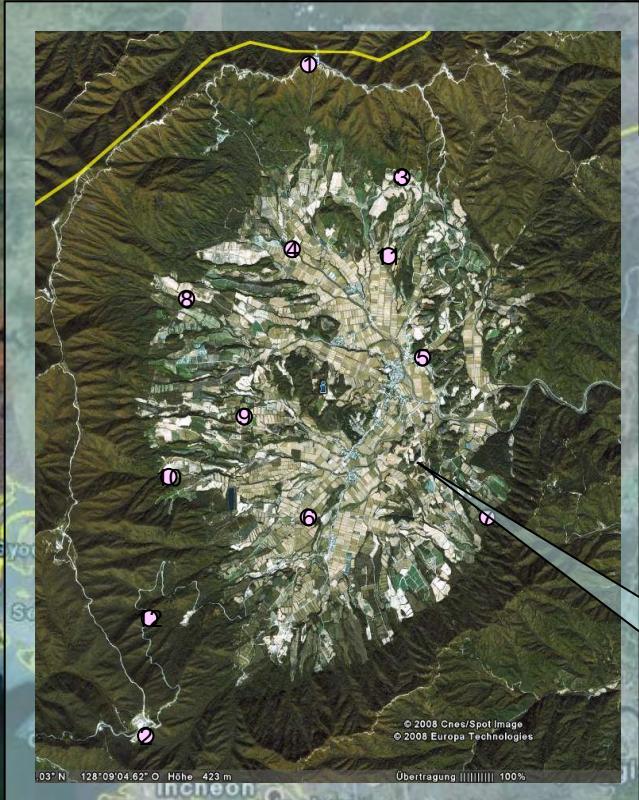


# Installed Automatic Weather Stations at Haean Basin

Peng Zhao  
Johannes Lüers

Department of Micrometeorology, University of Bayreuth

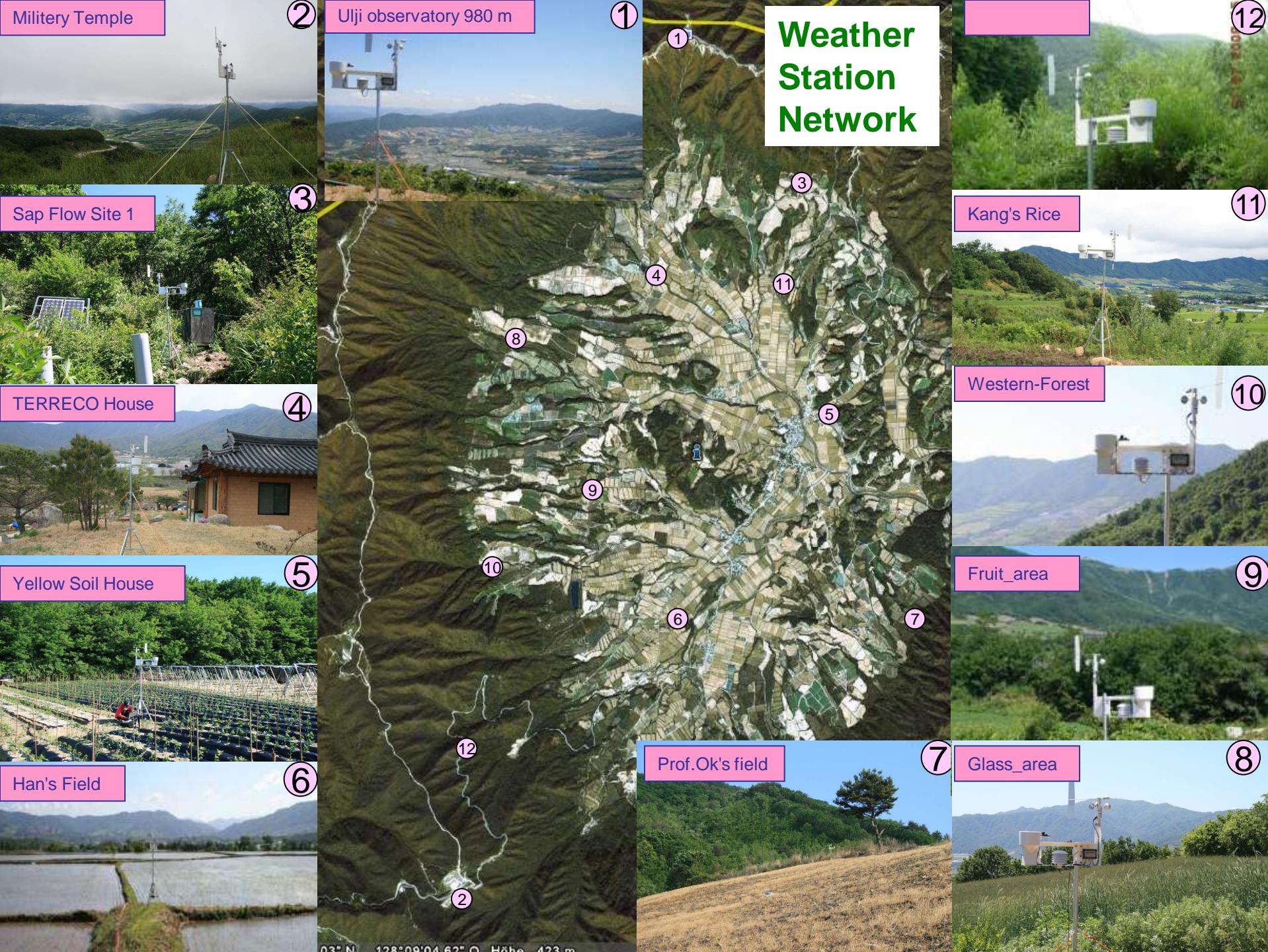
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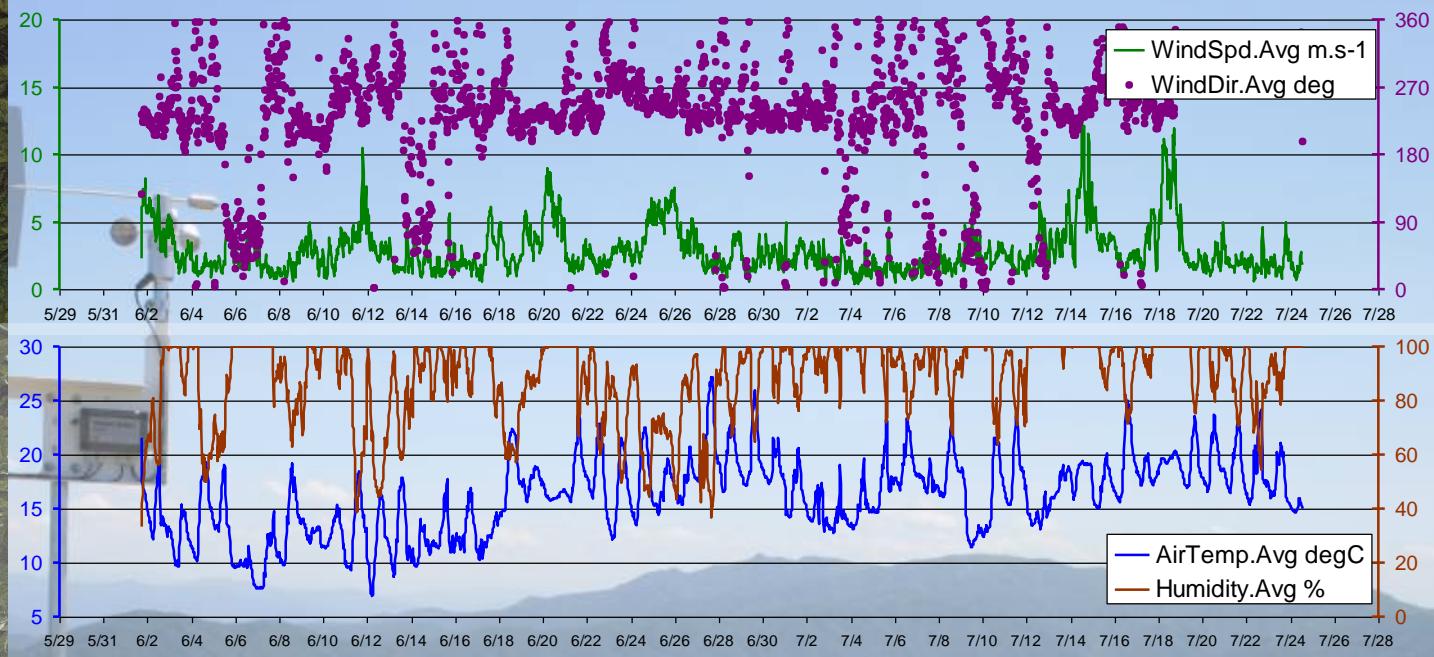
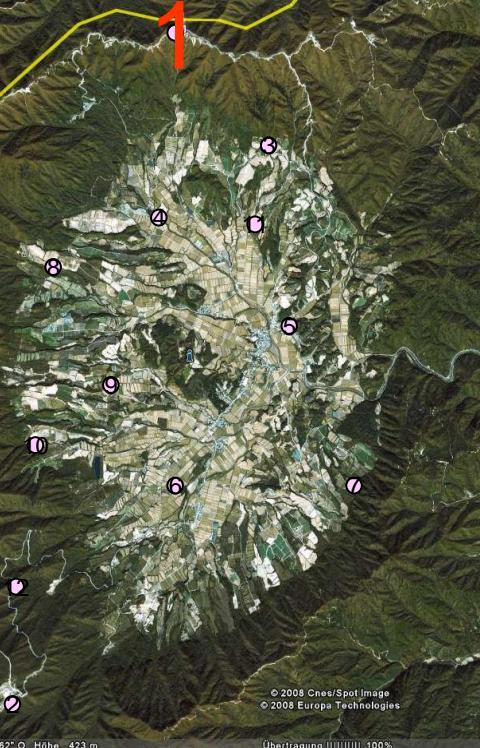




**Overview**

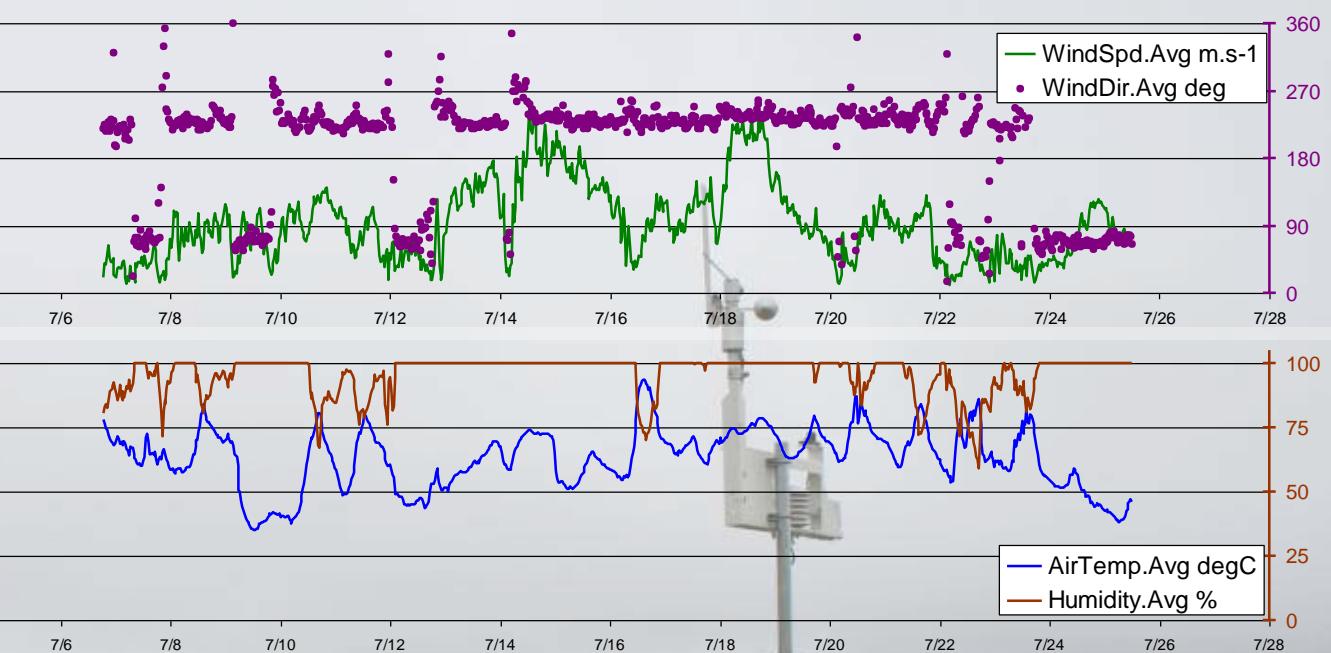
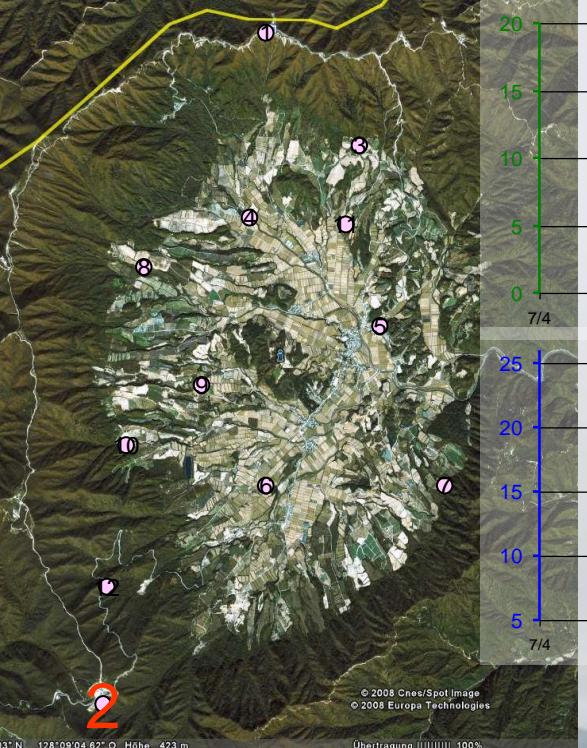
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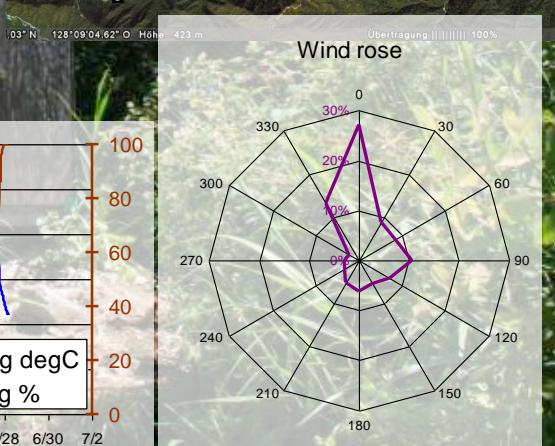
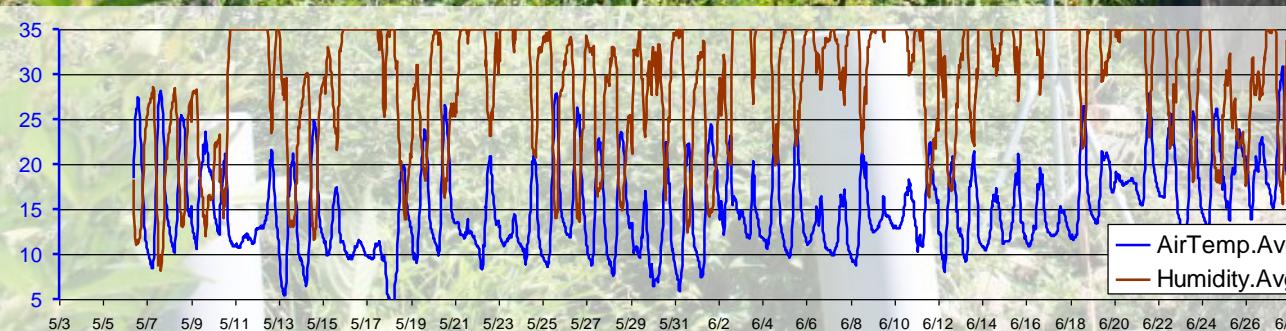
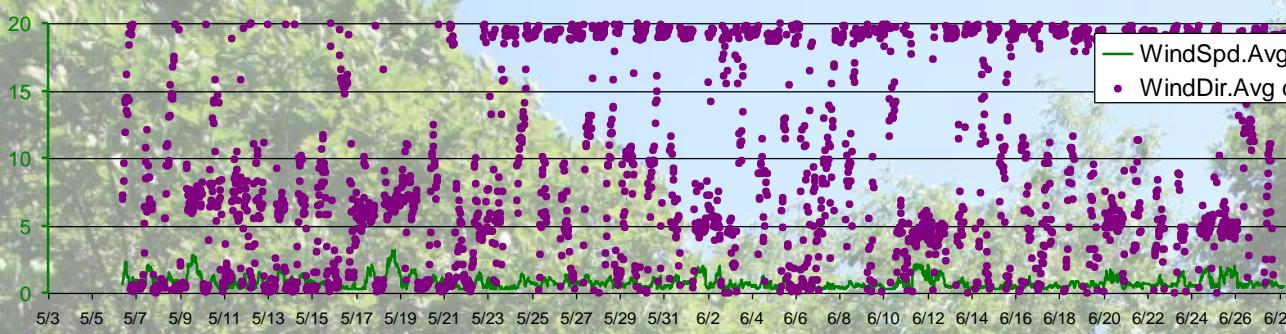




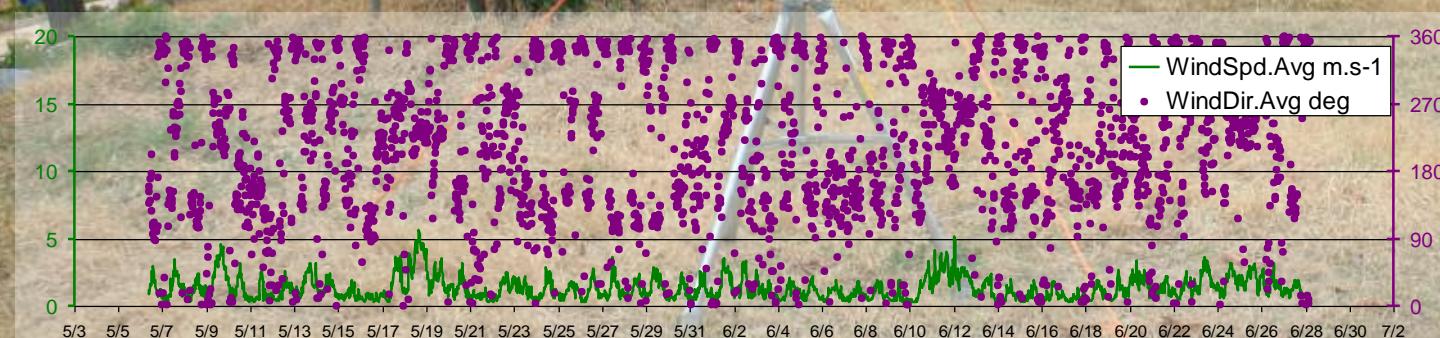
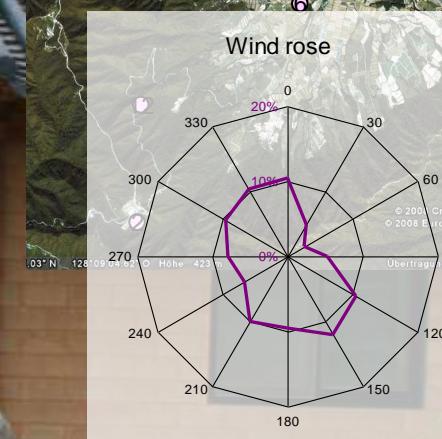
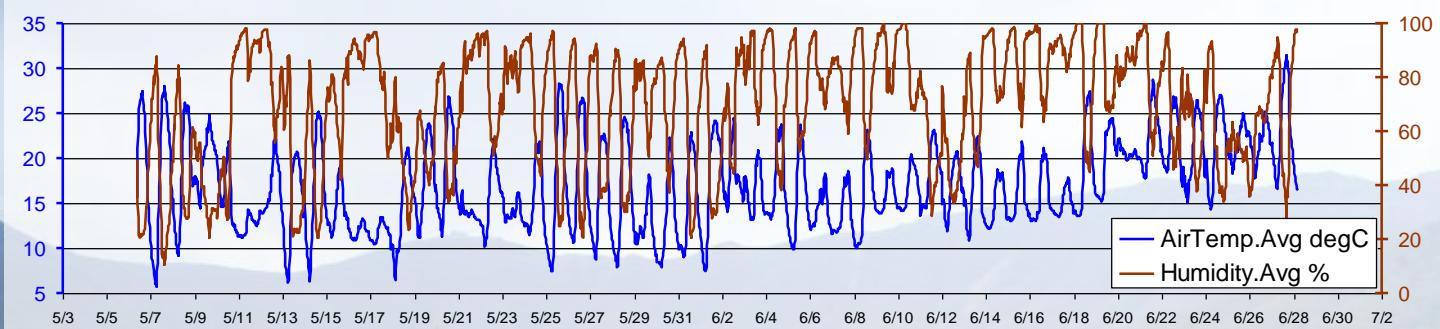
Wind direction





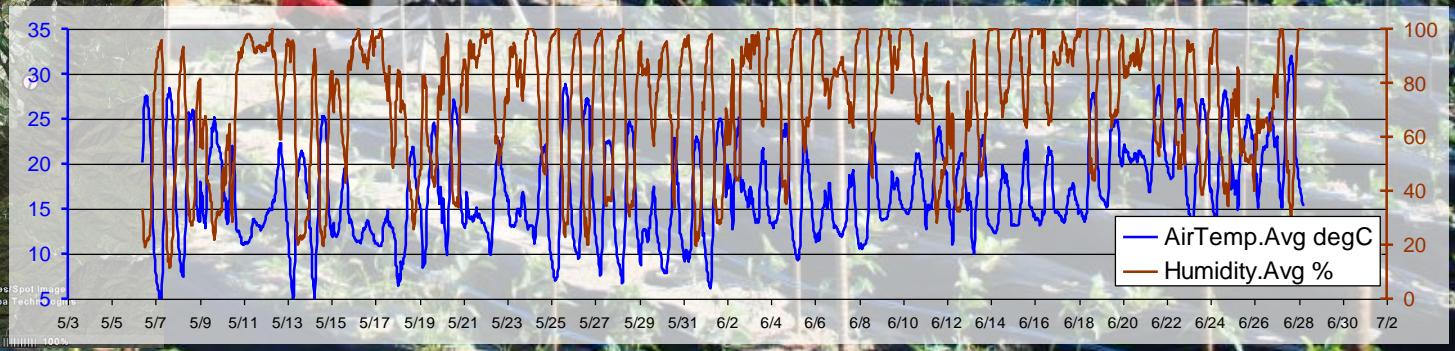
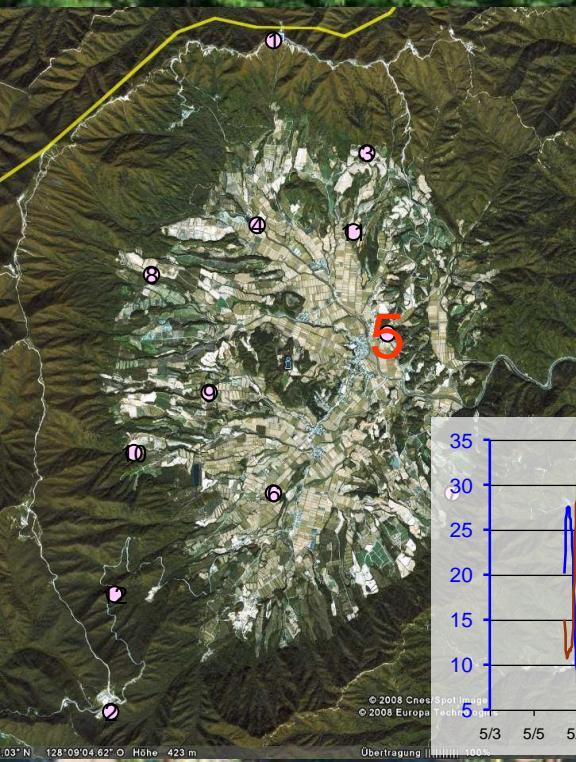
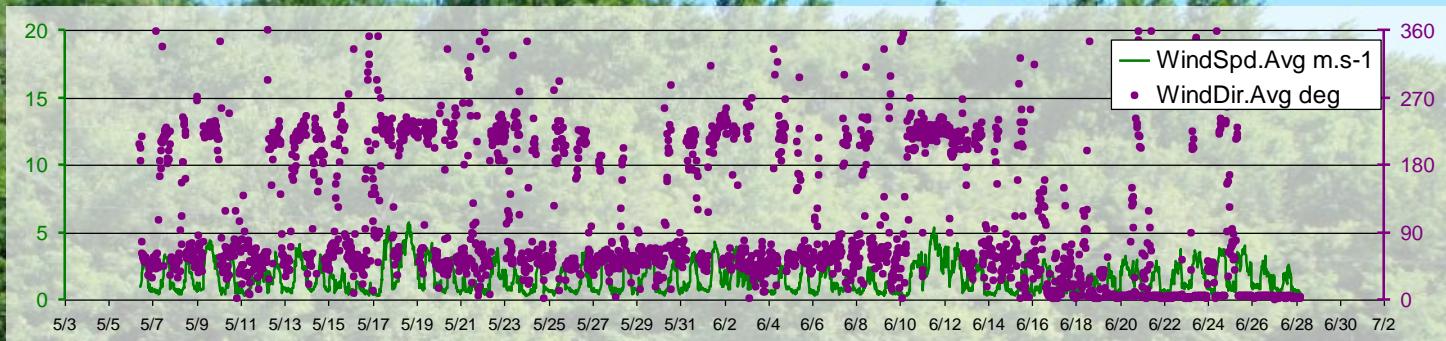
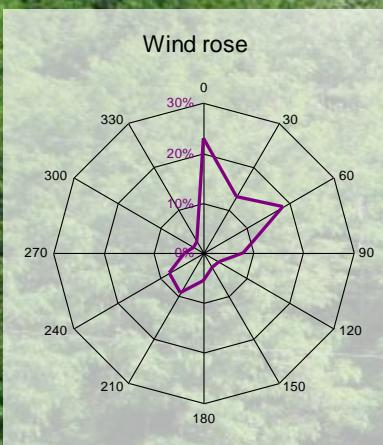


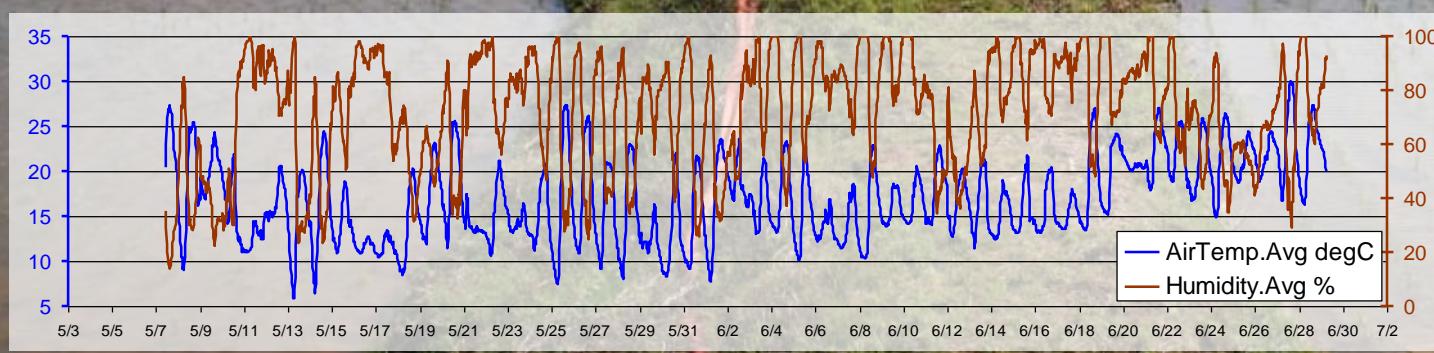
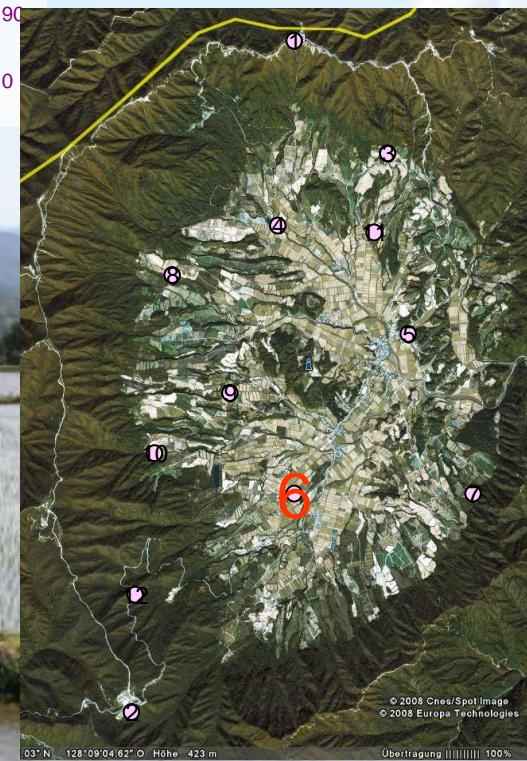
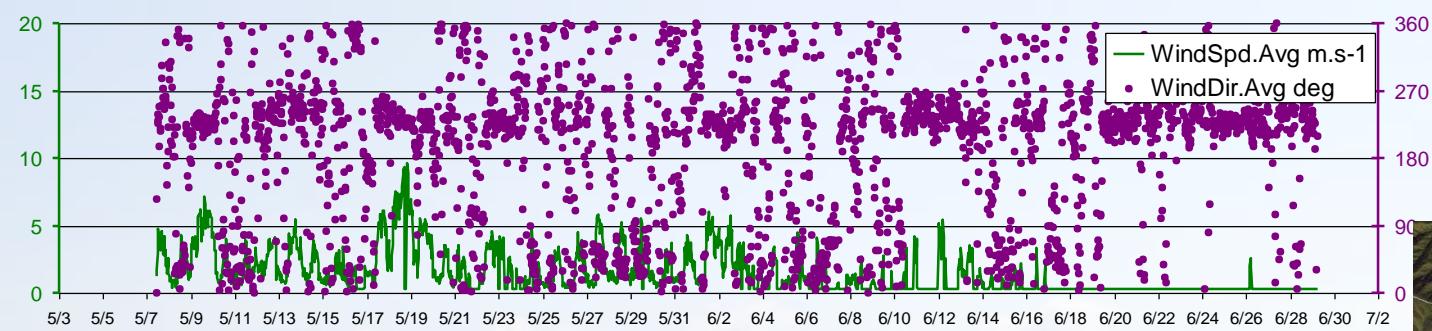
WS-3-SapFlowSite1



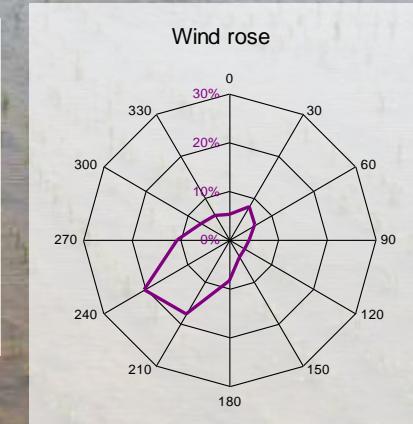
WS-4-TERRECO\_House

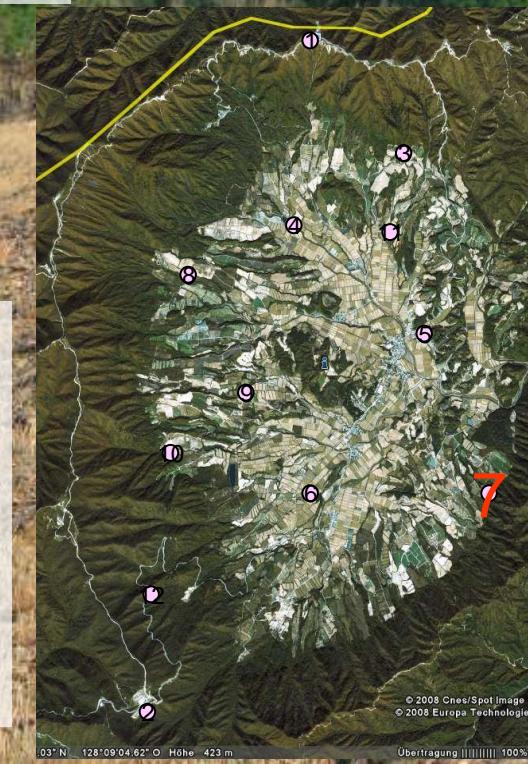
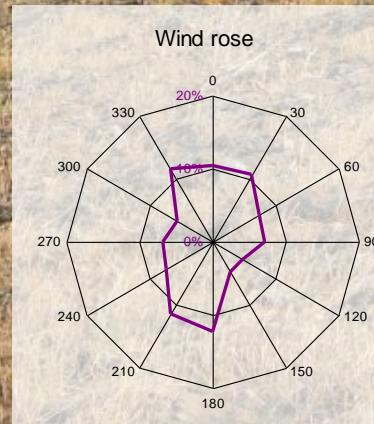
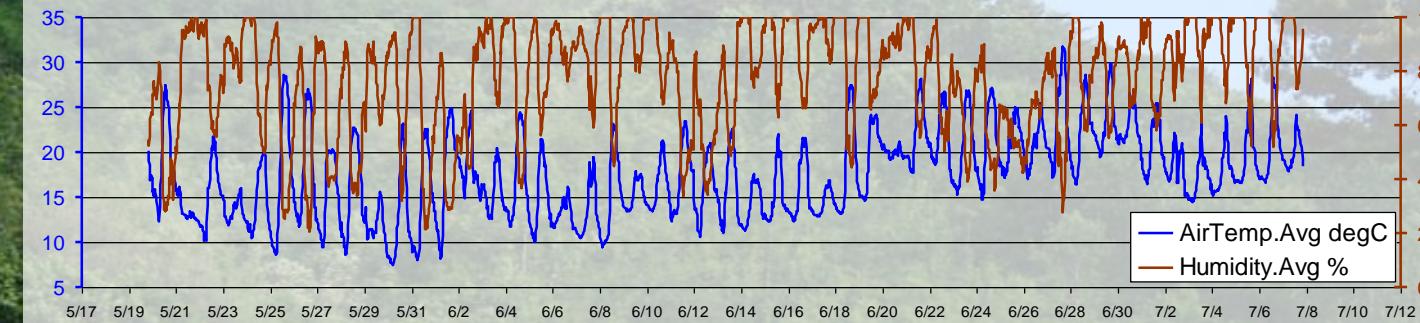
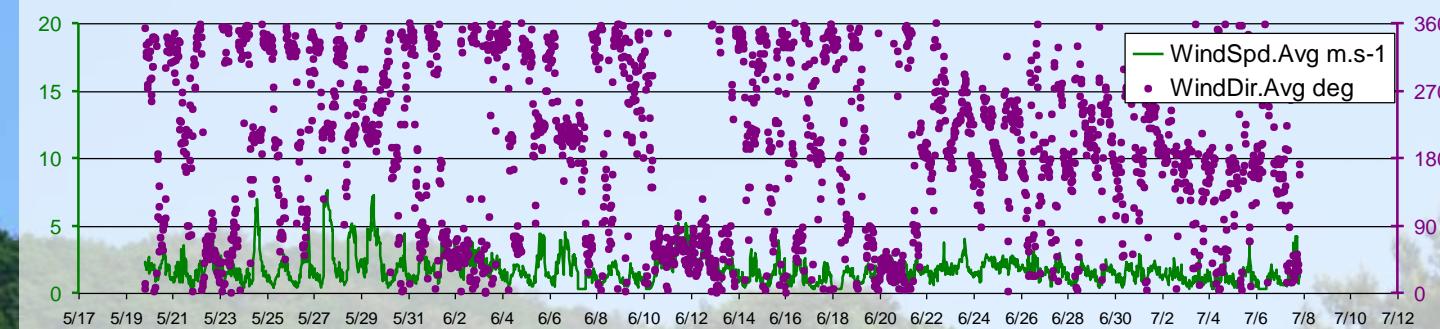
# NS-5-YellowSoilHouse



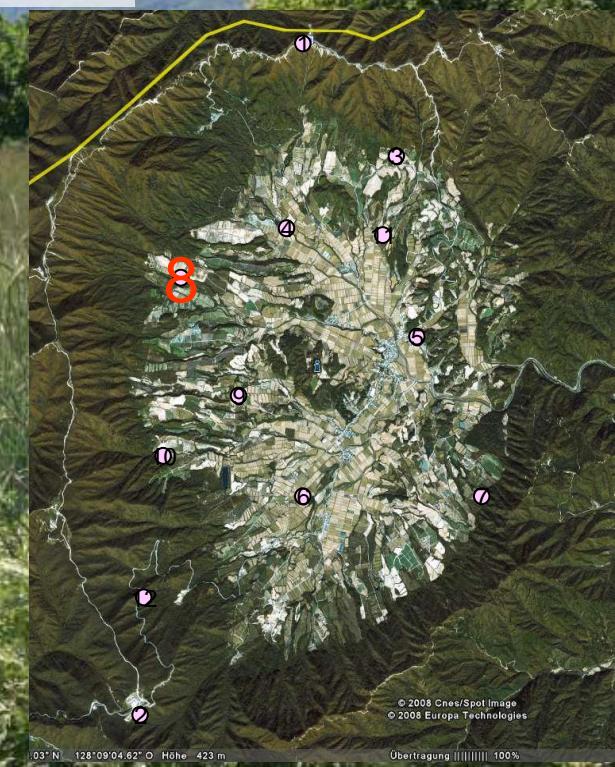
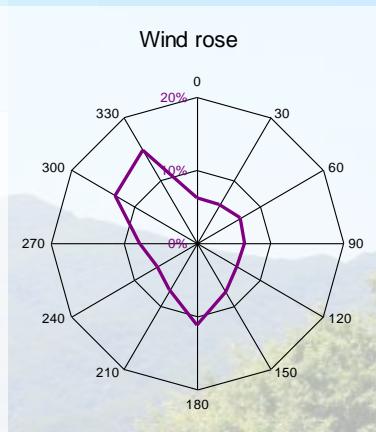
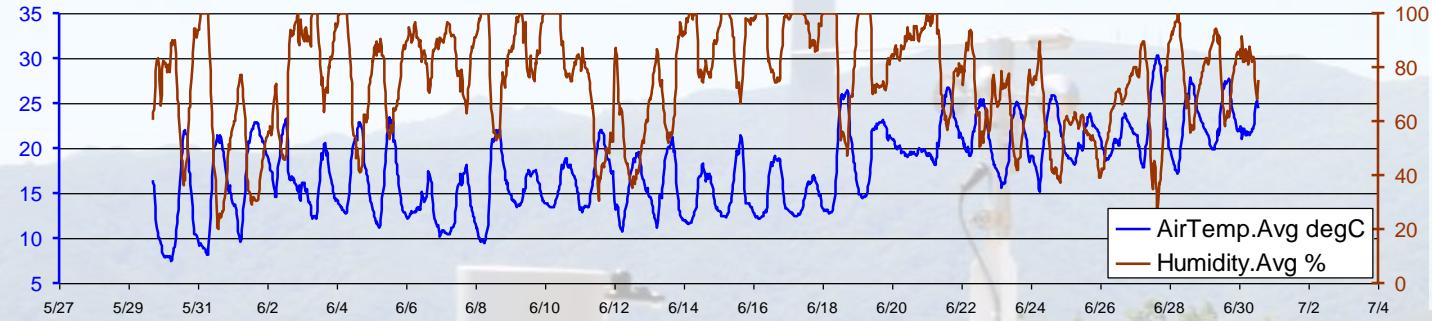
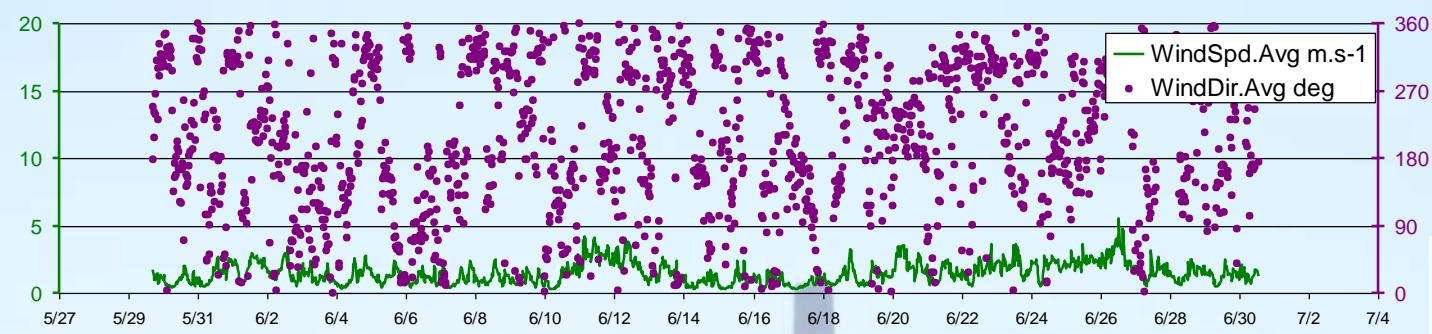


# WS-6-Han's Field

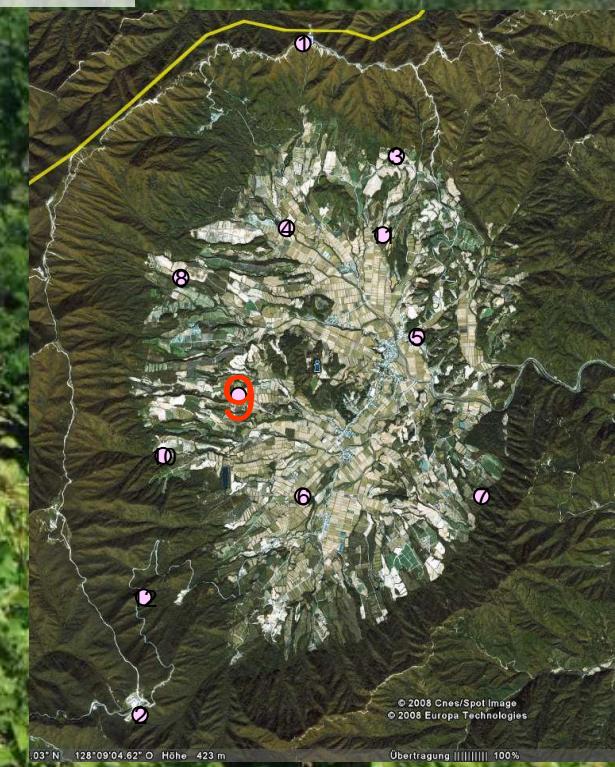
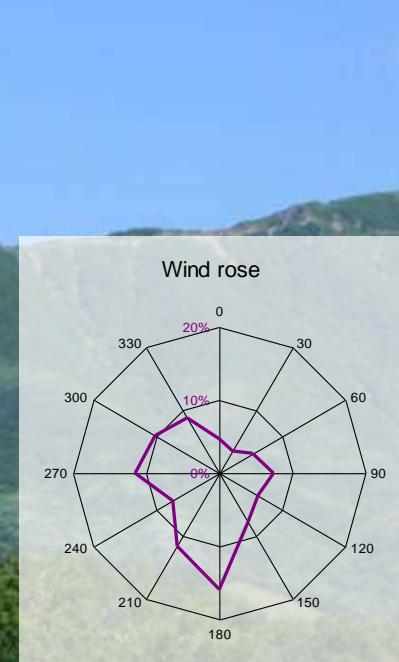
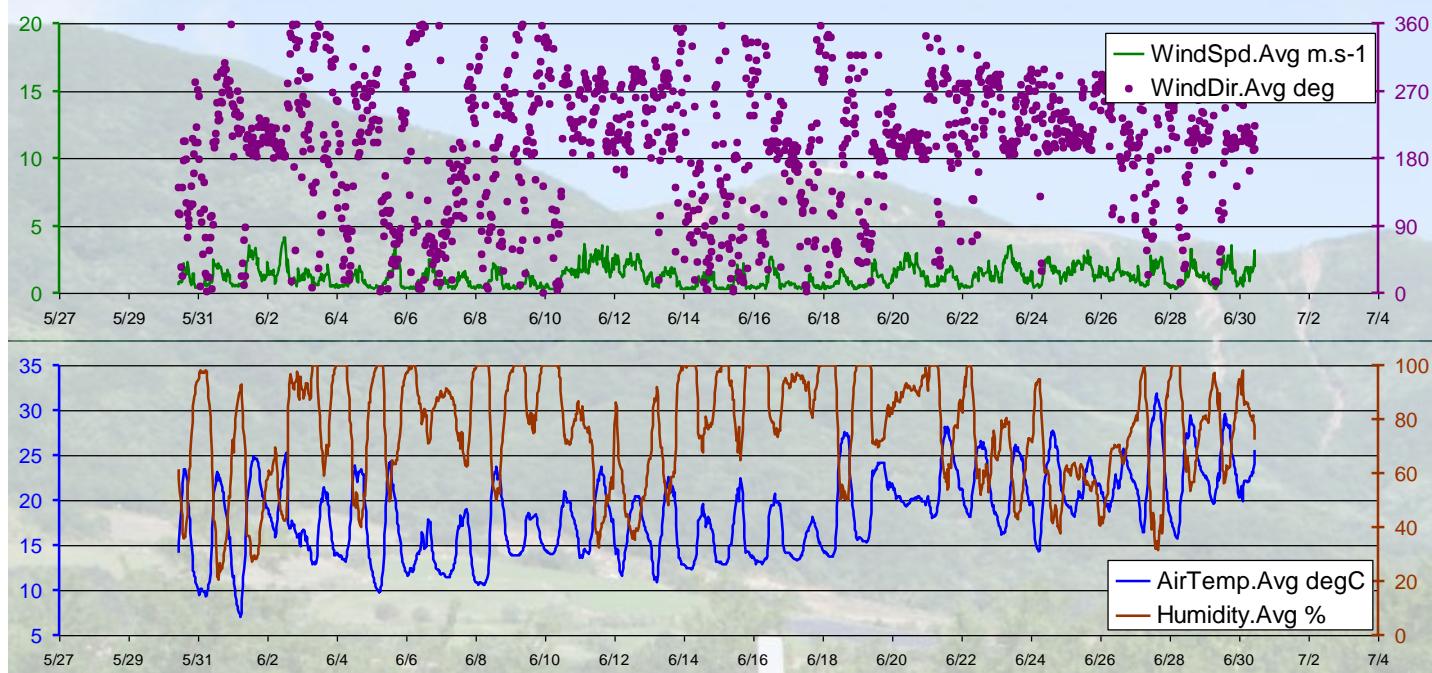




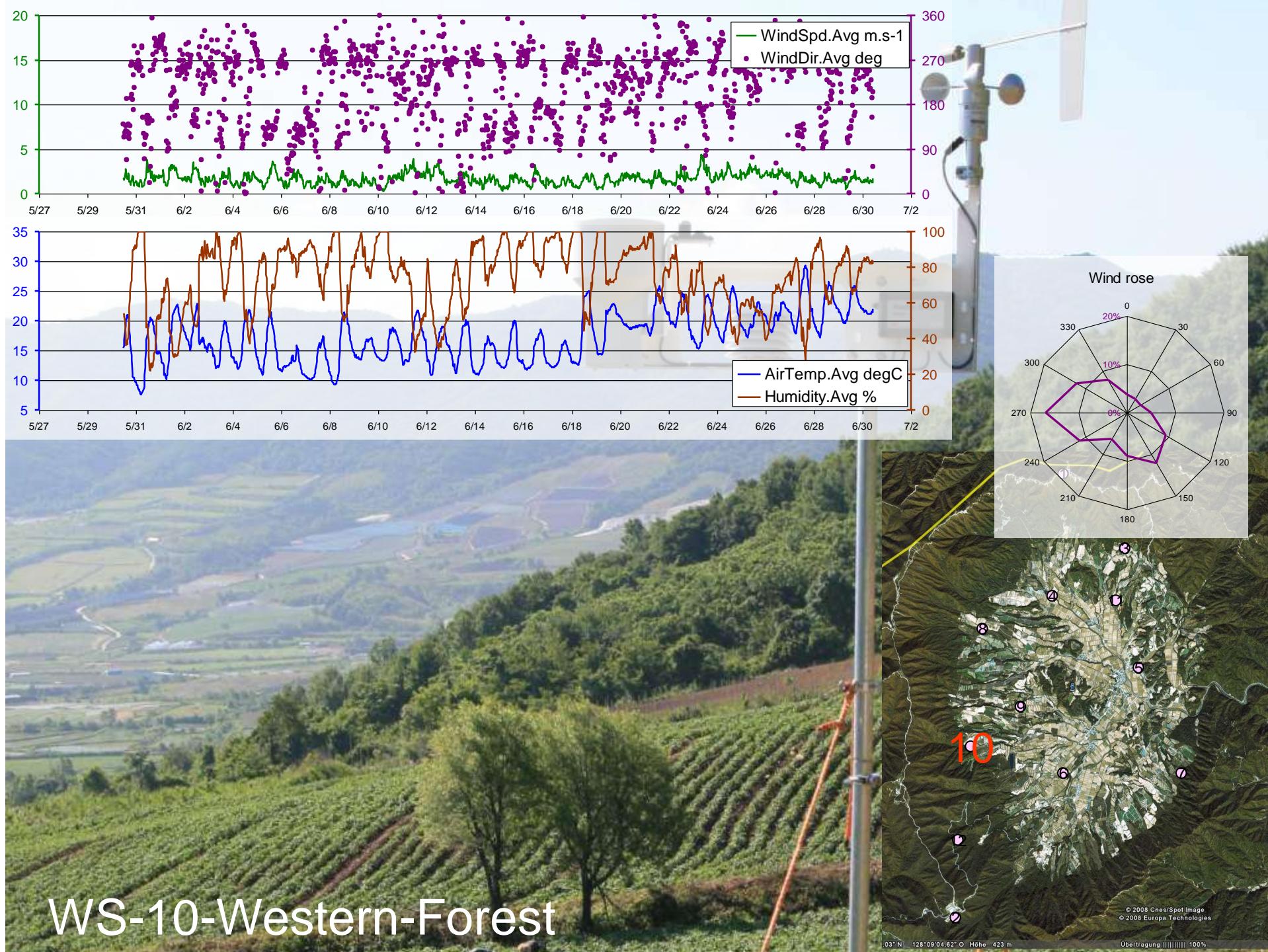
WS-7-Prof.Ok's field

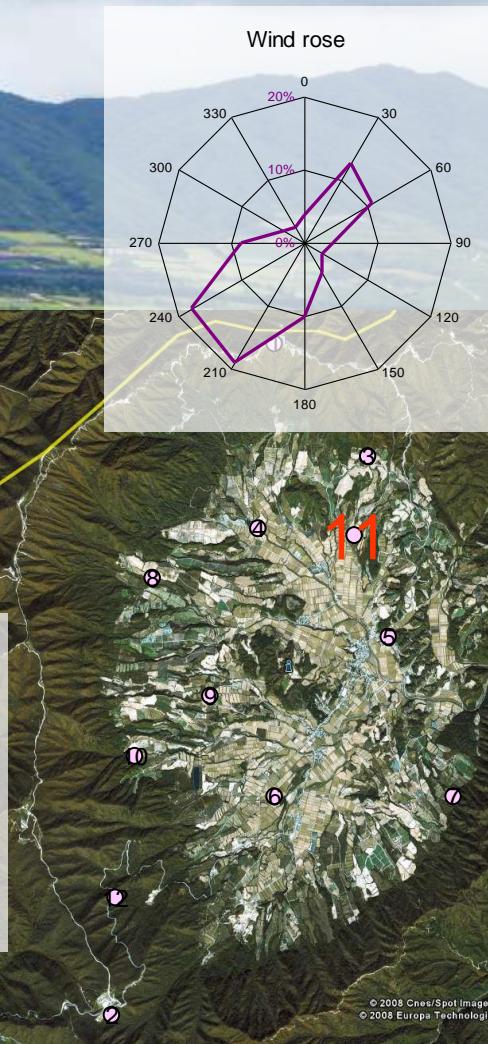
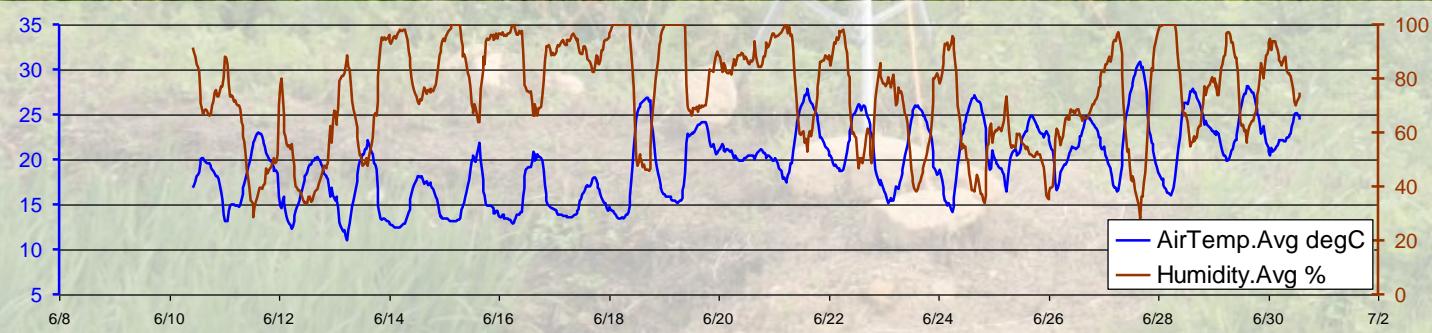
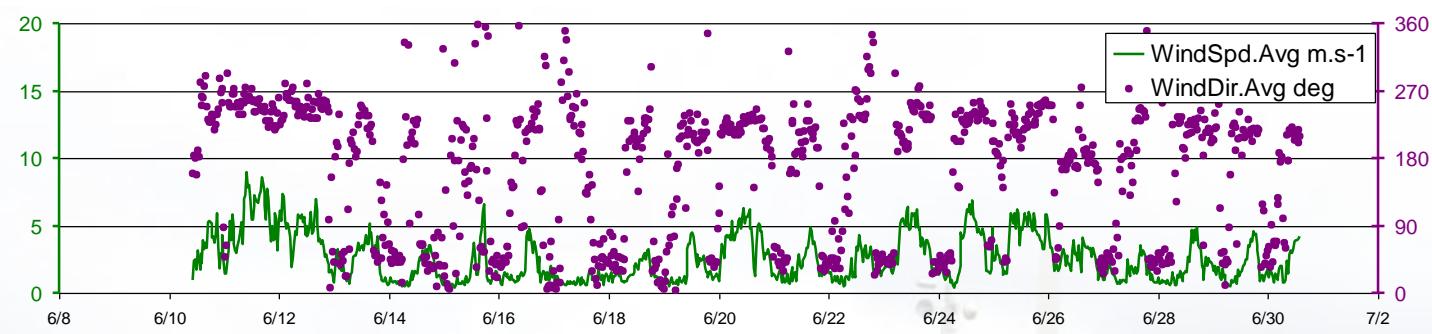


WS-8-Glass\_area



WS-9-Fruit\_area



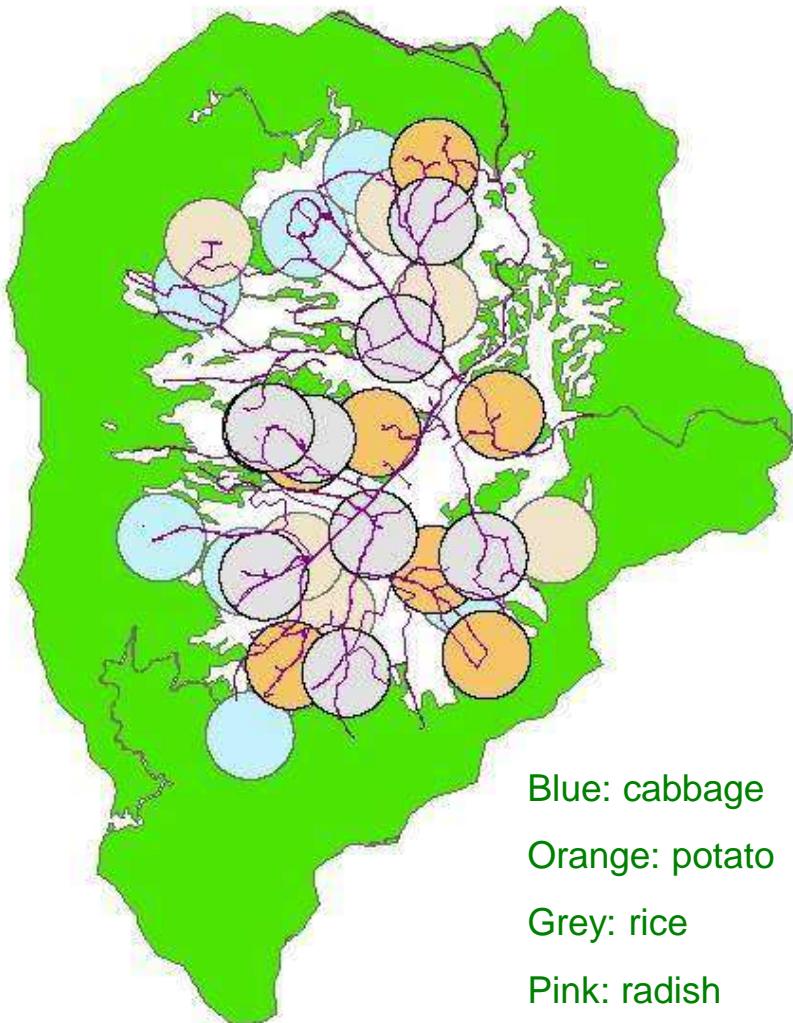


# WS-11-Kang's Rice



WS-12

# Conventional and organic farm comparison

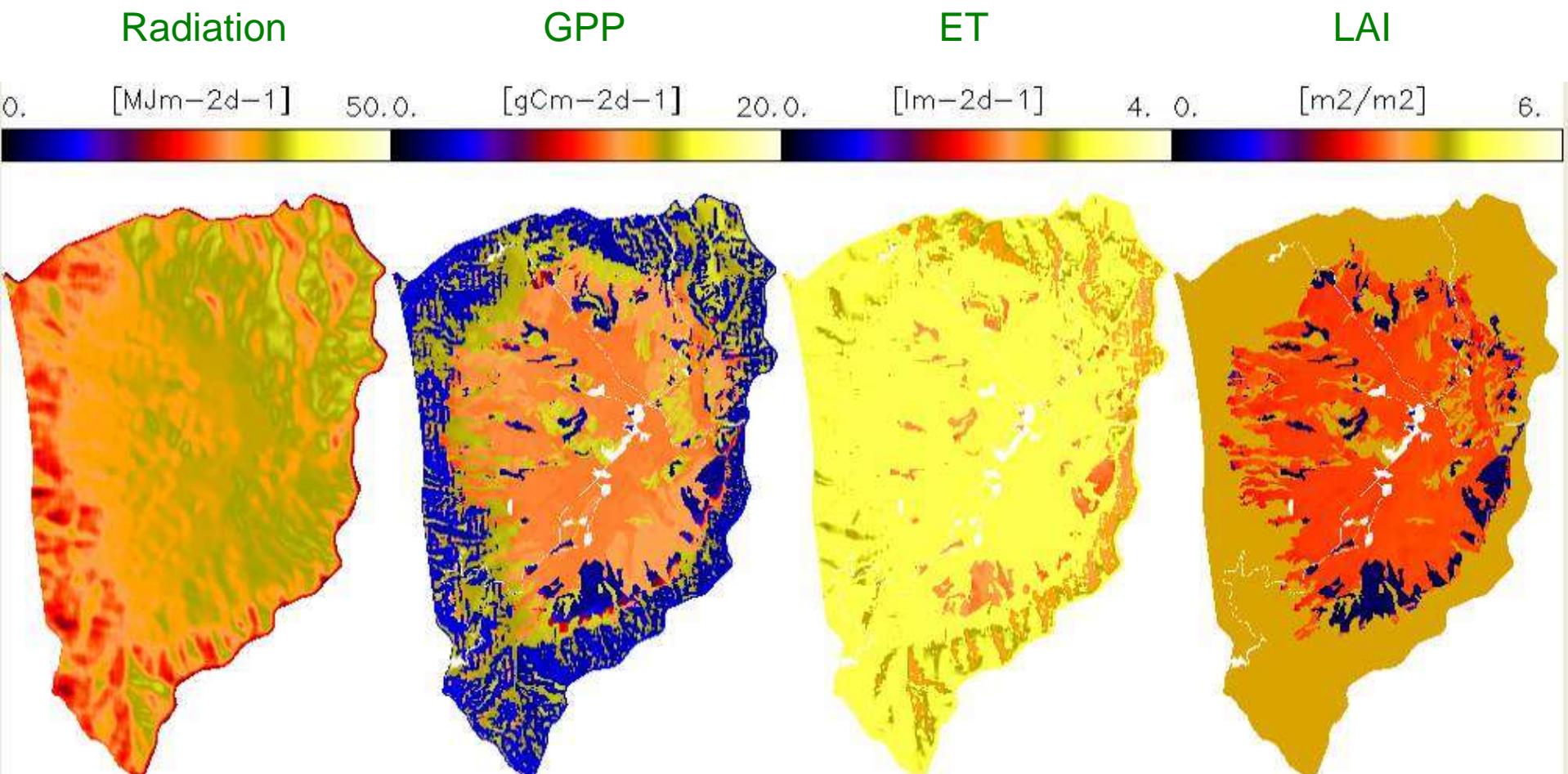


**Forest cover in 500m radius  
ranges between 0 and 85%**

1. Insect diversity
2. Associated bird population
3. Weed invasion / competition
4. Herbivory
5. Above- / belowground N pools
6. Biomass development
7. Crop yield
8. Landscape model design

Haean-myun Catchment, Yanggu Gun, Korea

Day of Year 213 (August 1)



**PIXGRO: Surface Exchange → Plant Growth → Yield**

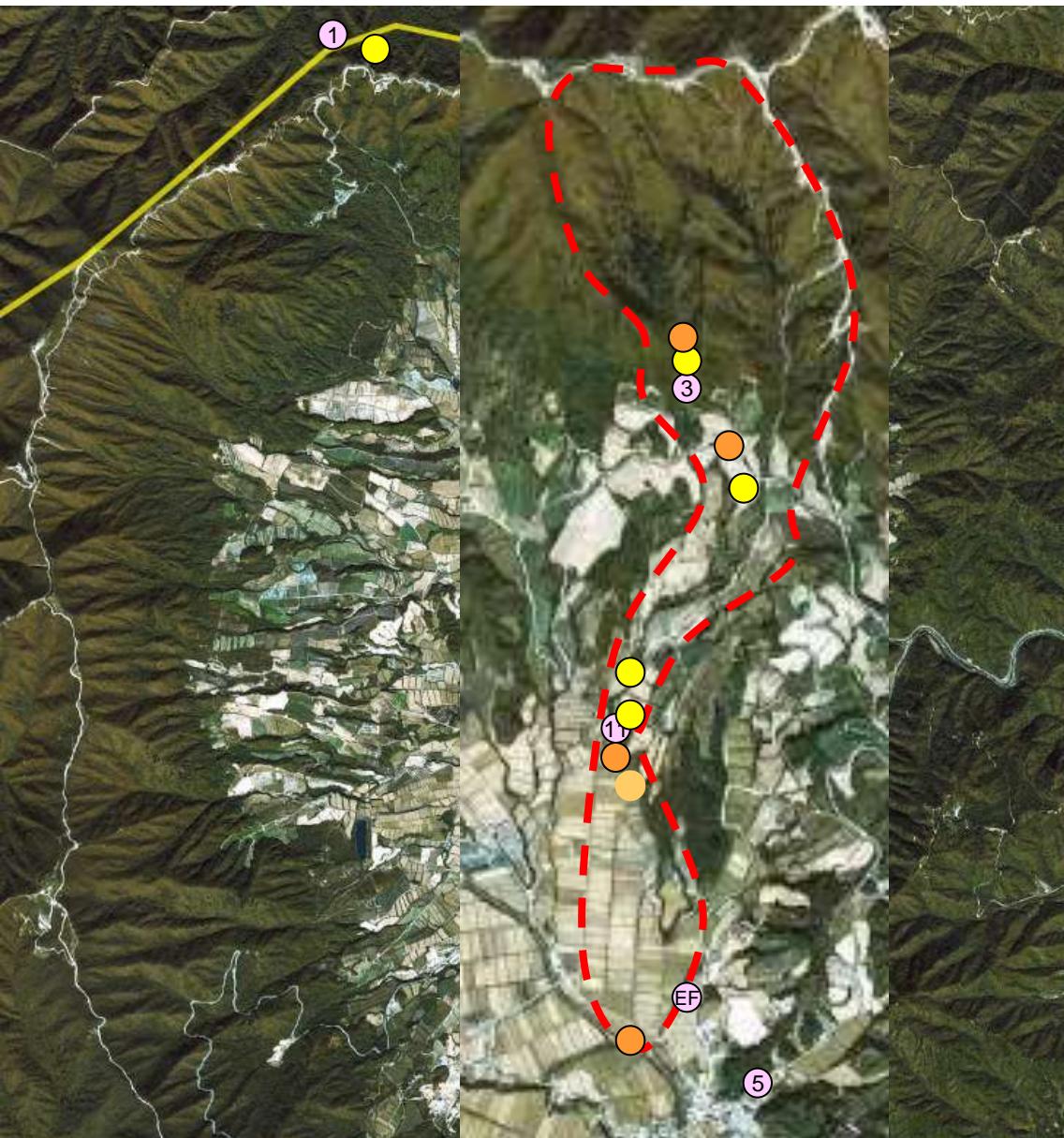


2009

**Similar slope,  
land cover, and  
management**



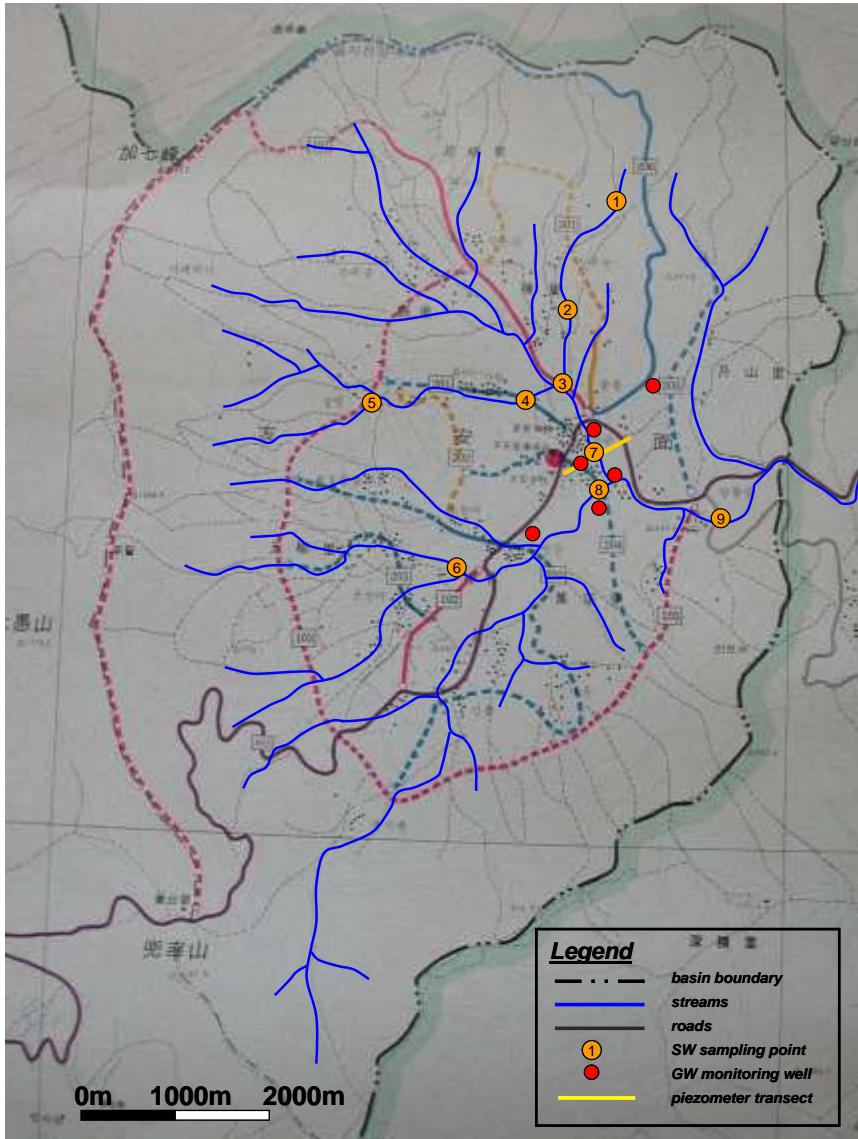
# Hydrology subcatchment



- Climate documentation
- Ecosystem physiology and production
  - Oak forest
  - Bean
  - Potato
  - Rice
- Stream water chemistry
- Measurements of flow
- Groundwater exchange (piezometers)

# Flow measurement sites

## Ground water monitoring network



Site	stage	flow
1	/	weir
2	gauge board	flow meter
3	gauge board	flow meter
4	gauge board	flow meter
5	Trans-ducer	flow meter
6	installed device	/
7	gauge board	flow meter
8	gauge board	flow meter
9	gauge board	flow meter

