

Discussion # 5 Pika Ecological Resilience

Talus microclimates: Decoupled thermal regimes:

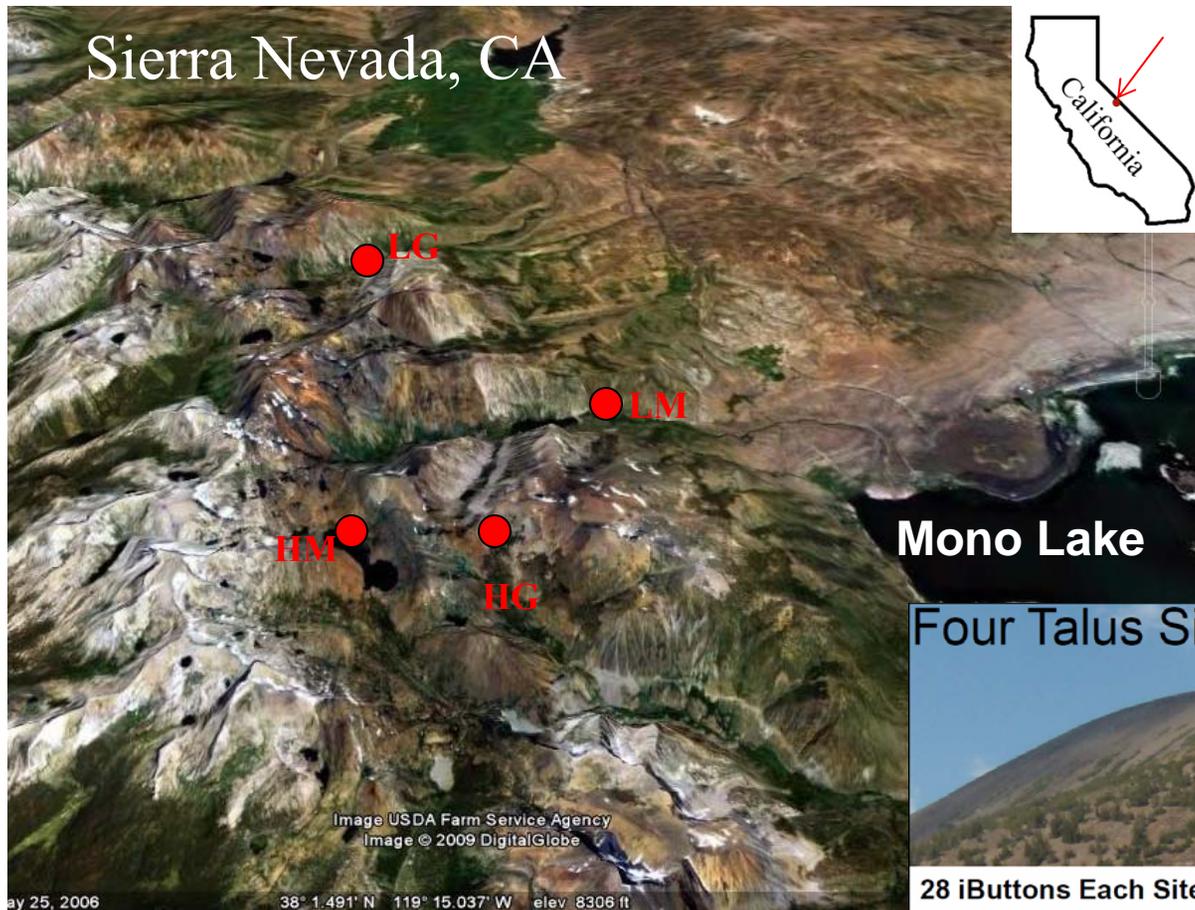
1.Intensive Talus Studies

2.Haypile Studies

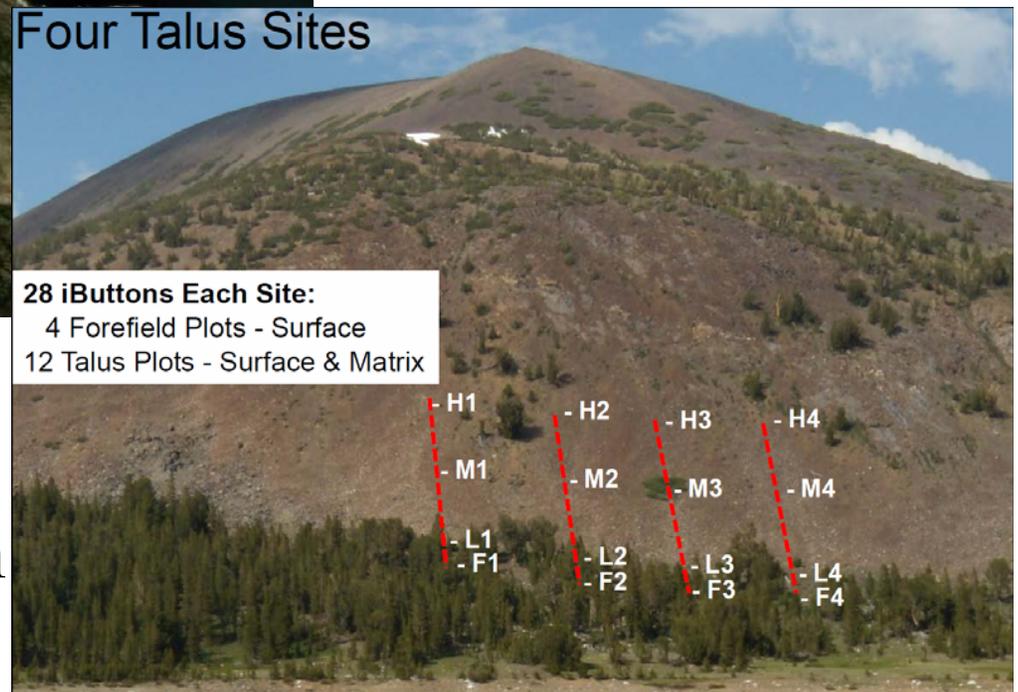
Thermal Regimes of Periglacial Talus Fields; Pika Habitat



Study site and talus design, Started summer 2009



4 Taluses (2 yrs)
2 Elevs: High ~3260m,
Low ~2360m
2 Substrates: Granitic,
Metamorphic

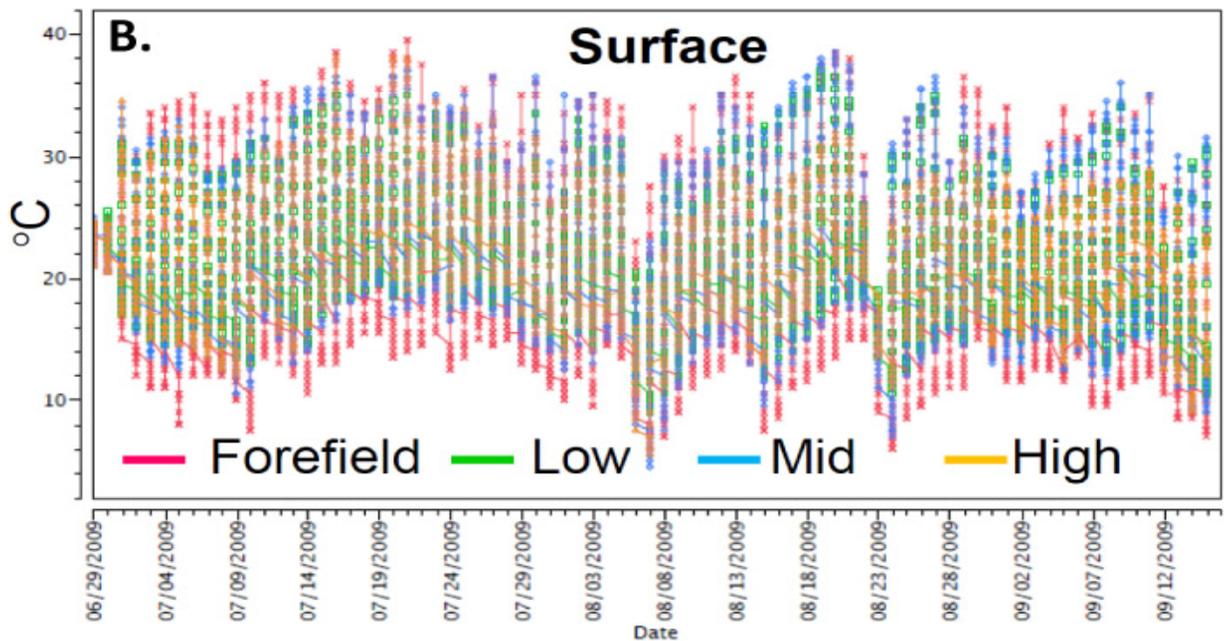
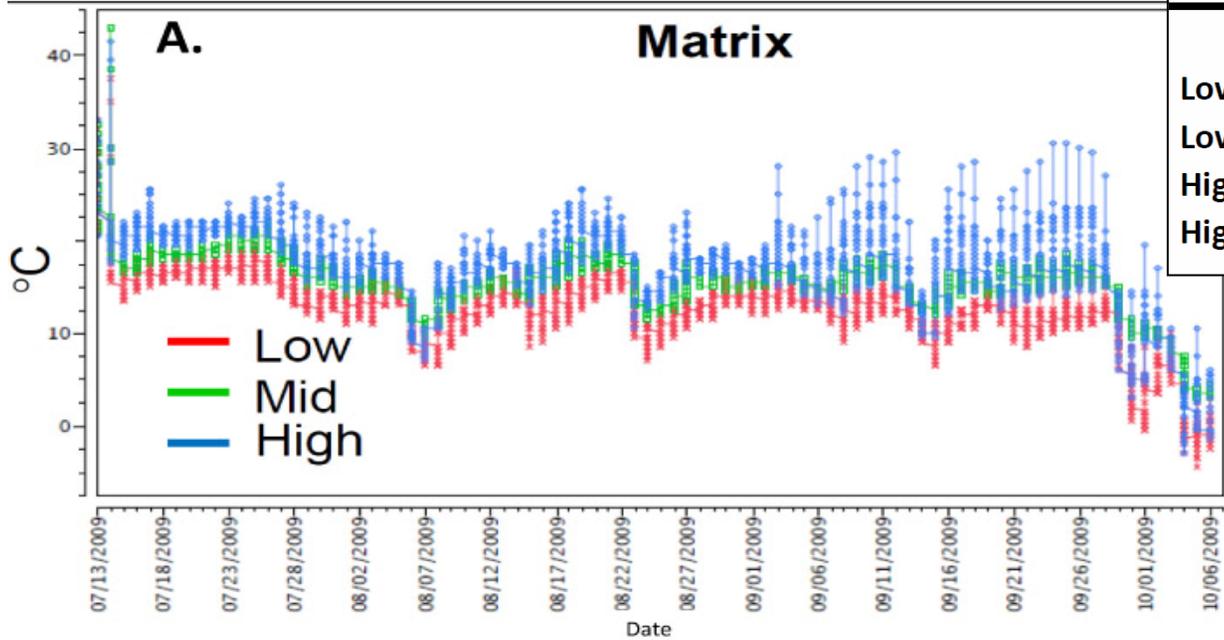


2010:

- Added 4 taluses, N aspect
- Added 2 air iButs/site, 2m in trees, so 30 iButs/site

Daily temps, summer 2009, Green Cr

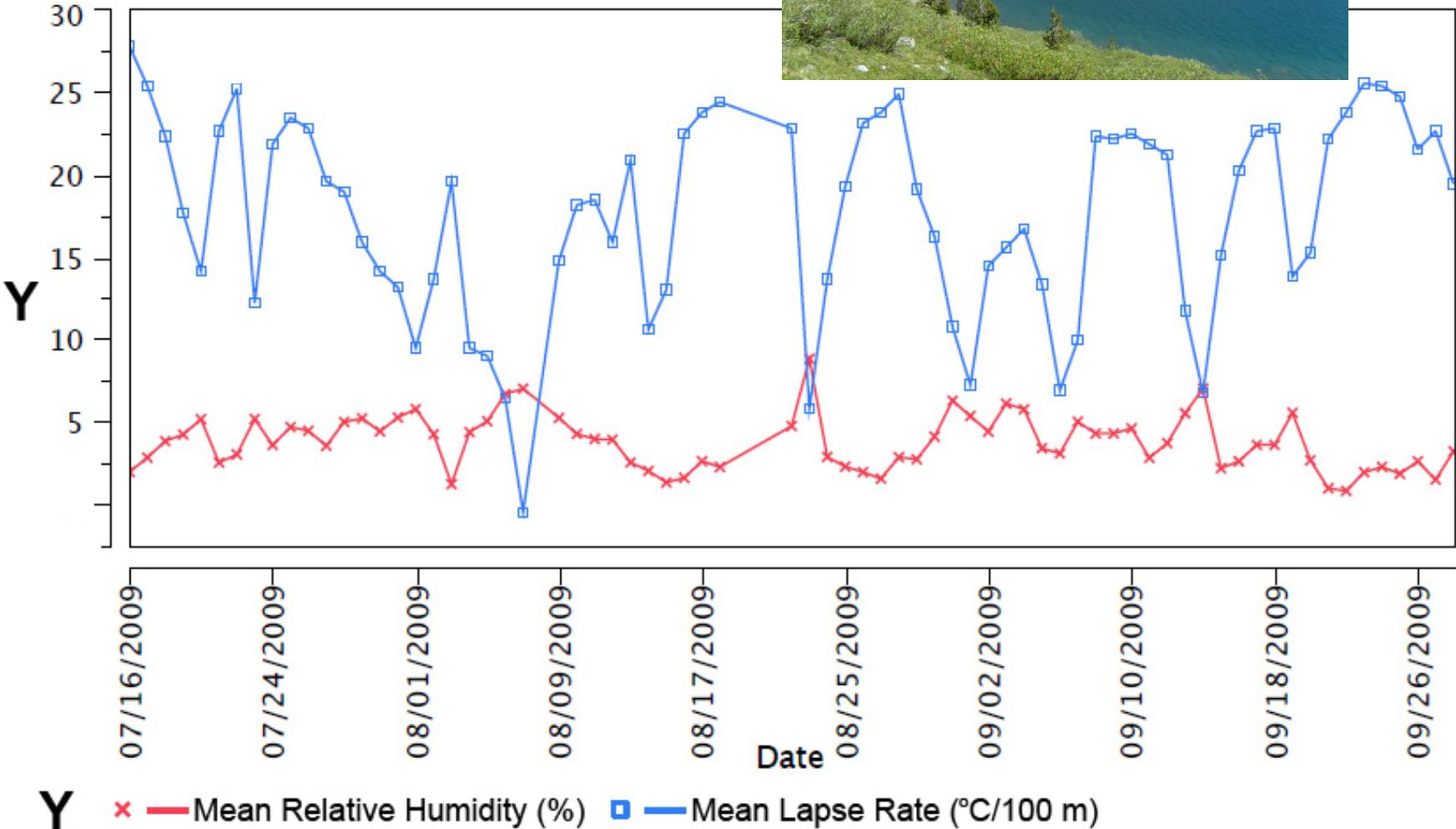
Tbl 1. Summer mean talus temperatures
°C (high & low elev taluses)

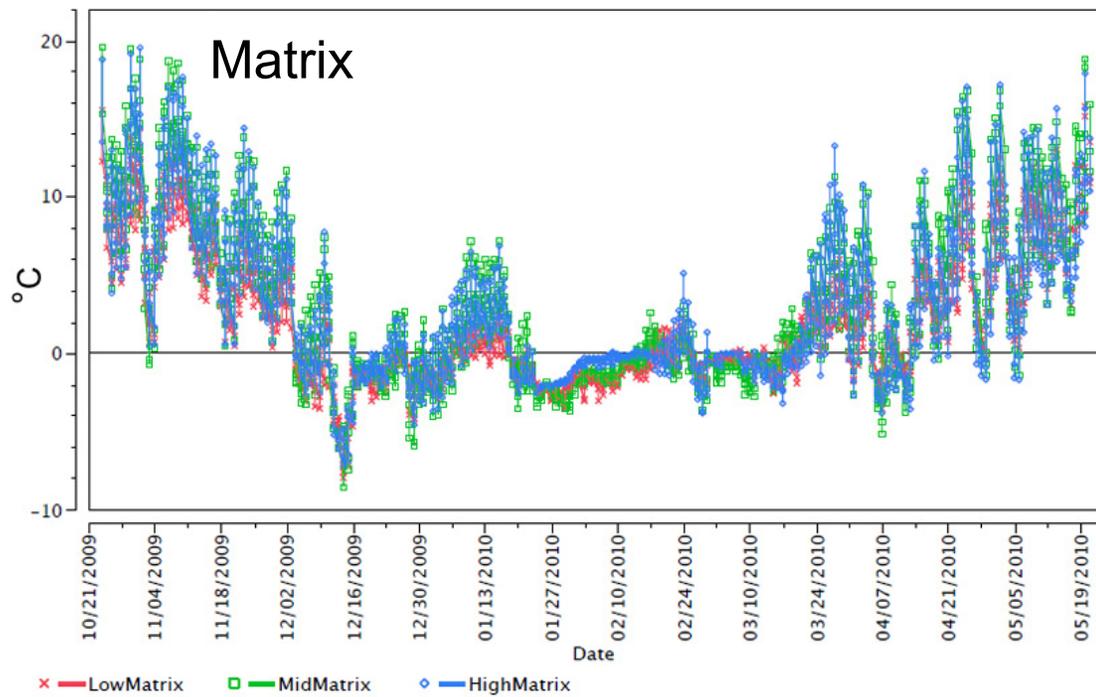
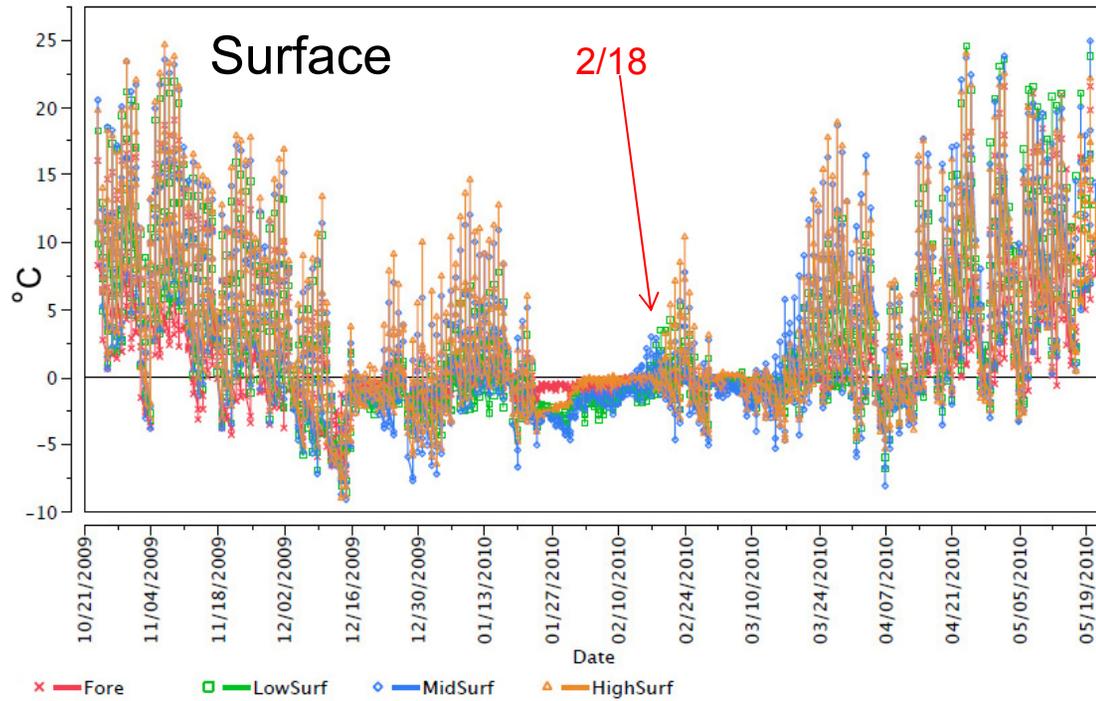


	Surface	SD	Matrix	SD
Low Meta	22.4	5.3	20.5	2.5
Low Granitic	18.2	3.4	15.2	1.2
High Meta	16.1	4.2	13.9	2.2
High Granitic	14.9	4.0	12.7	1.4



Mean Lapse Rates – Summer 2009, Saddlebag

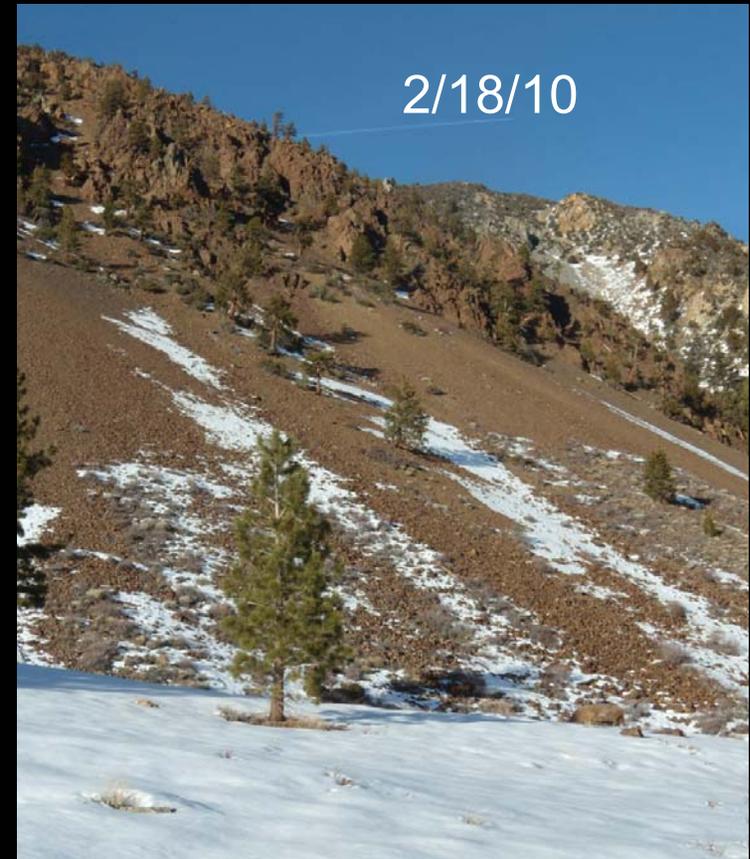


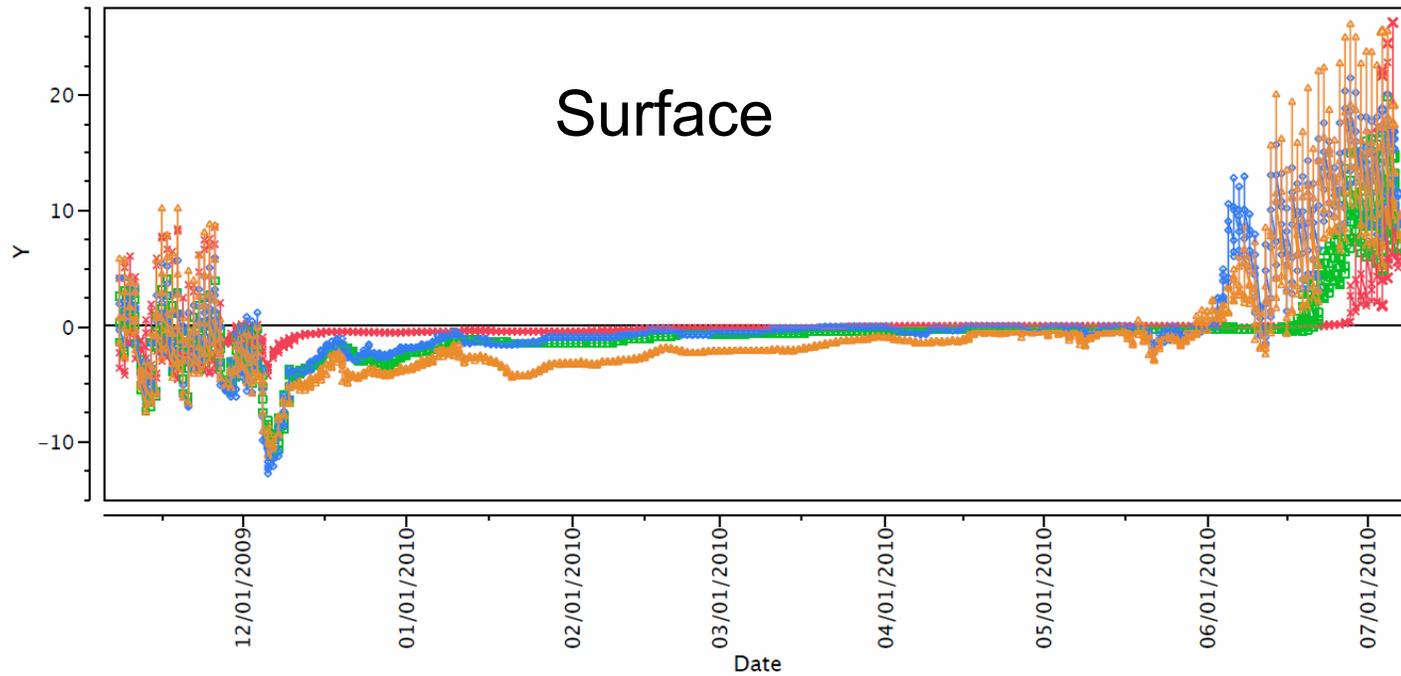


Winter temperatures, 2009 – 1010, Lundy

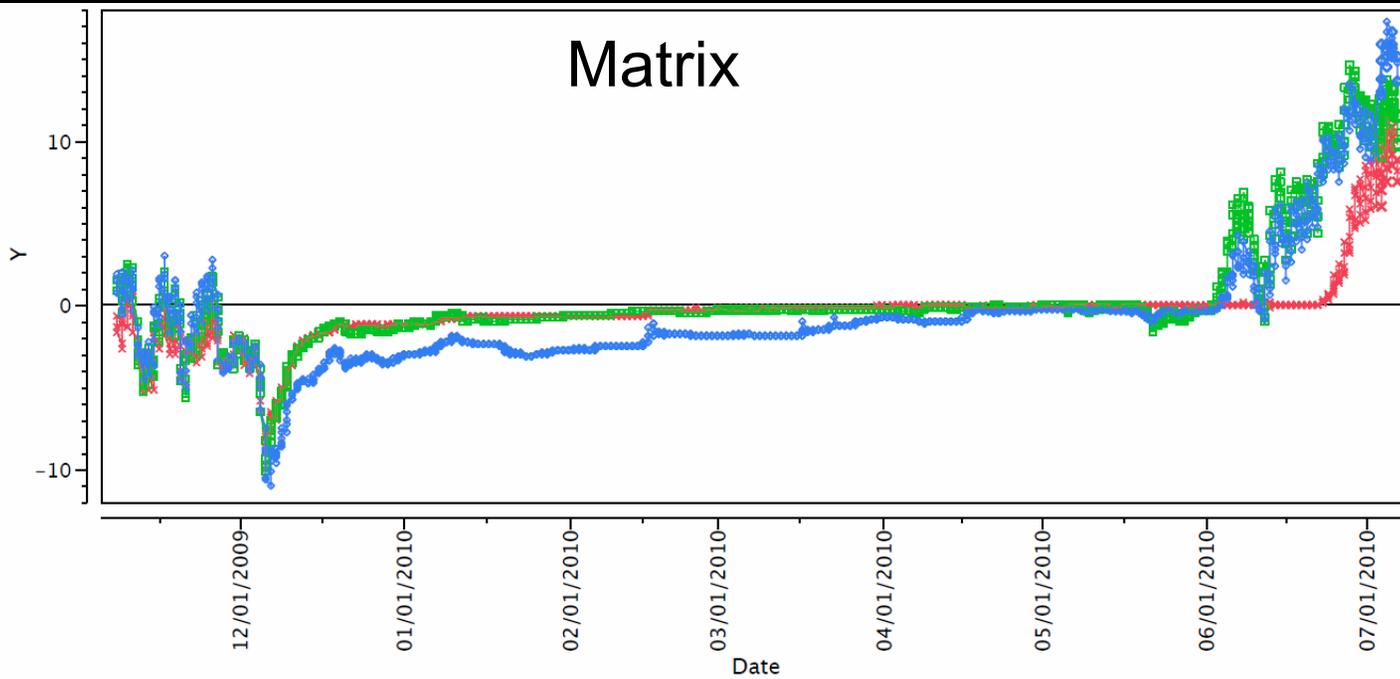
Tbl 2. Winter mean talus temperatures °C (low taluses only)

	Surface	SD	Matrix	SD
Meta	2.7	0.6	2.6	0.7
Granitic	0.2	0.8	-0.1	0.8





Y x Fore □ LowSurf ◇ MidSurf ▲ HiSurf



Y x LowMat □ MidMat ◇ HiMat

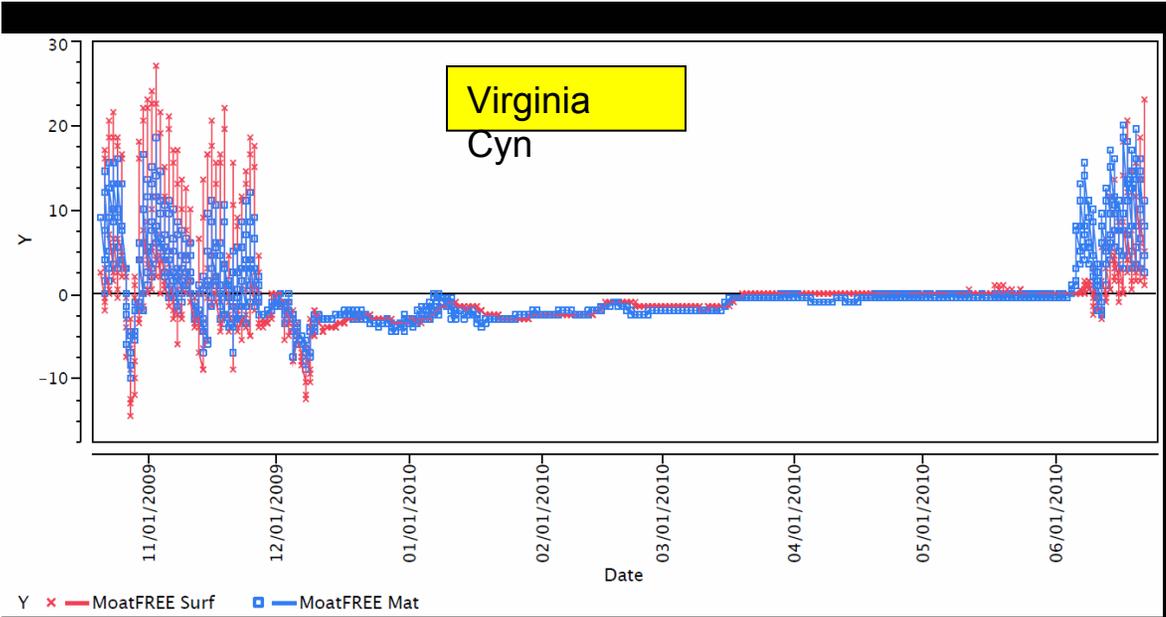
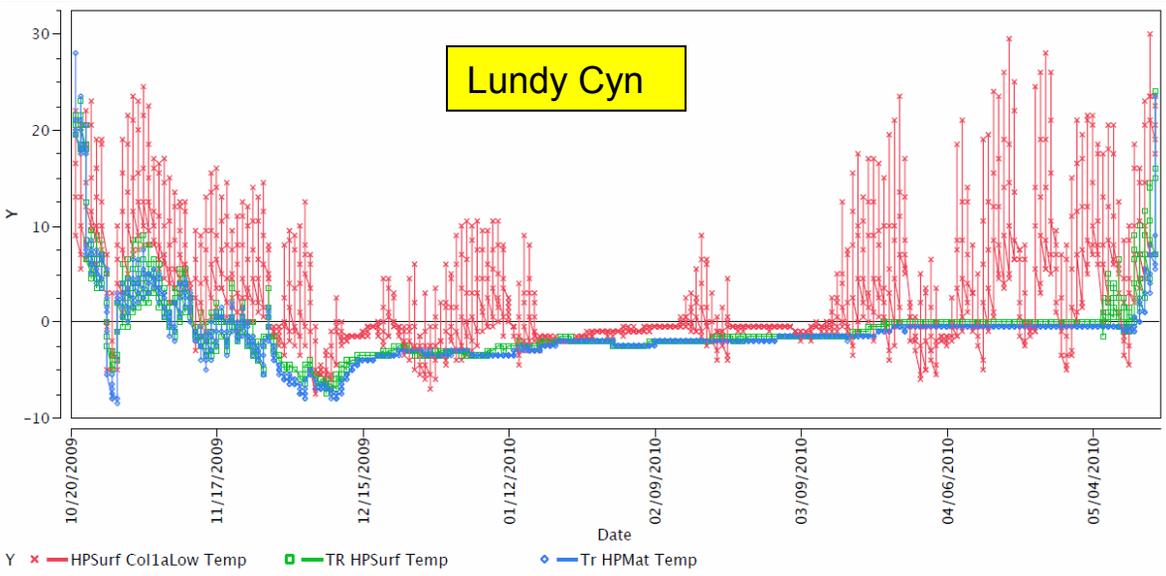
Winter
temperatures,
2009 – 2010

Warren Fork

Pika Haypile Thermal Regimes



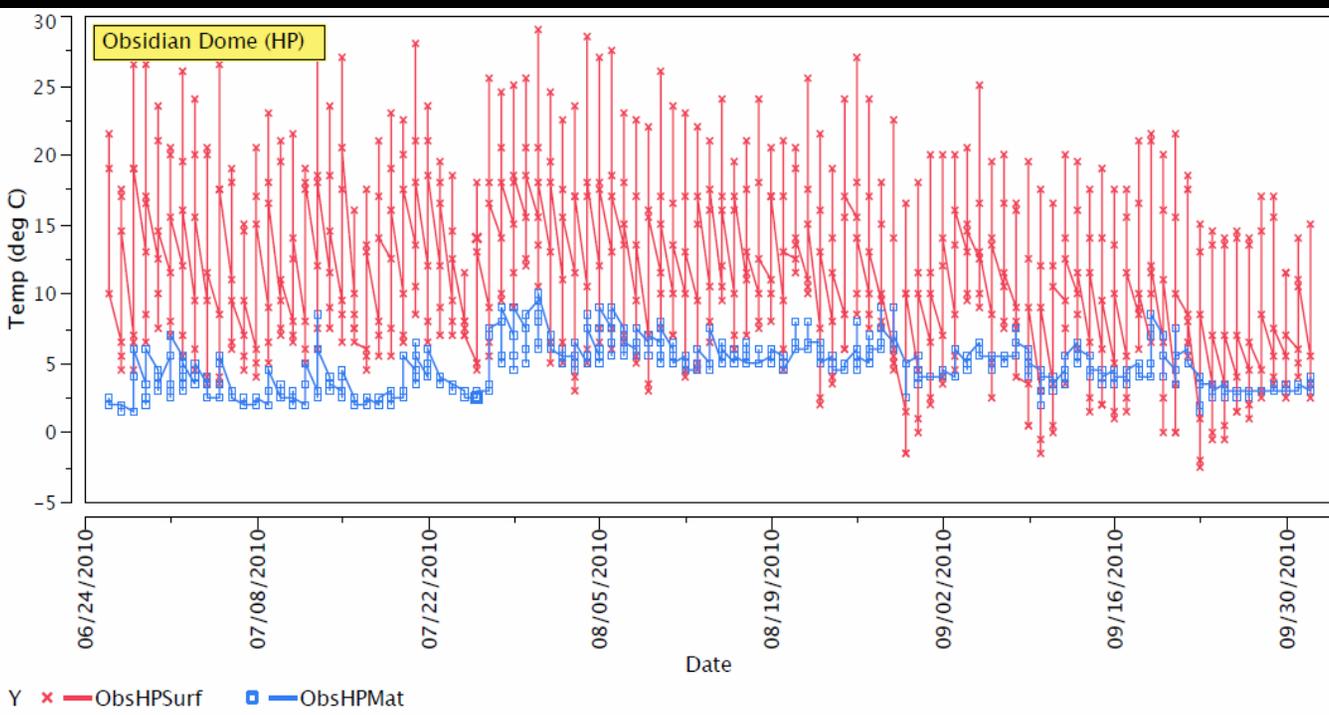
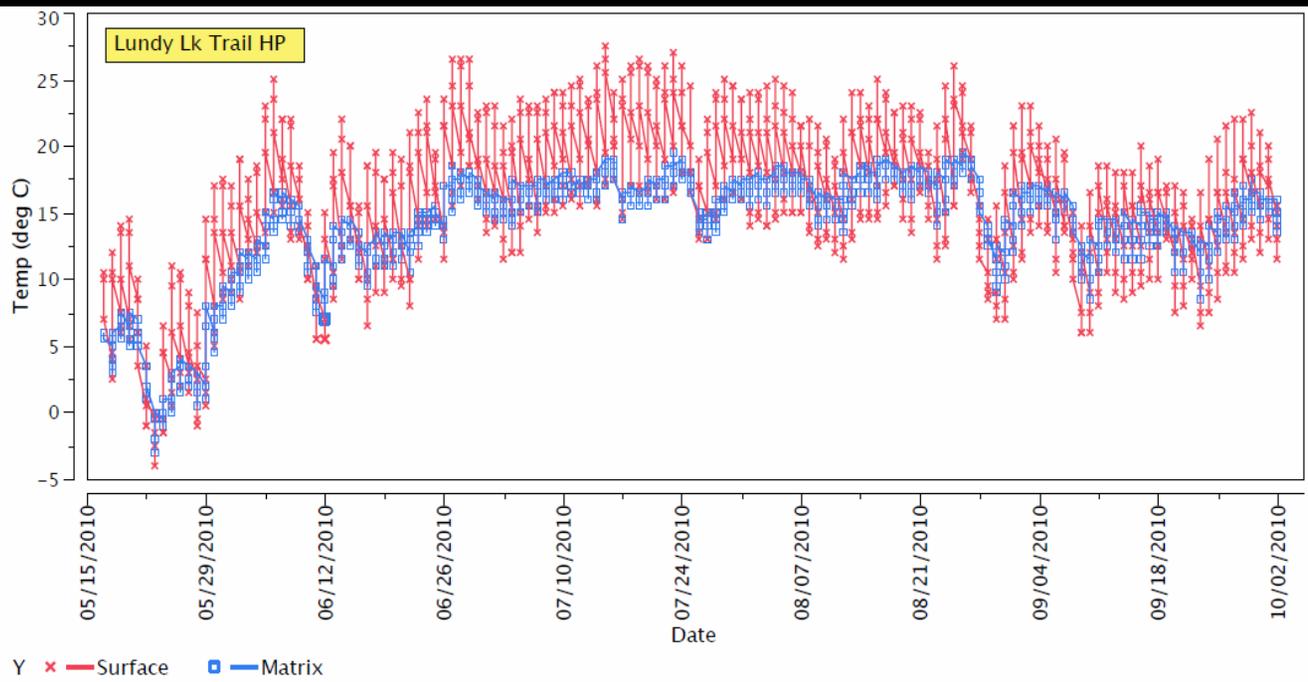
Winter 2009-2010





March 27, 2010
Bridgeport Cyn,
Bodie Hills





Haypiles -- Summer 2010

