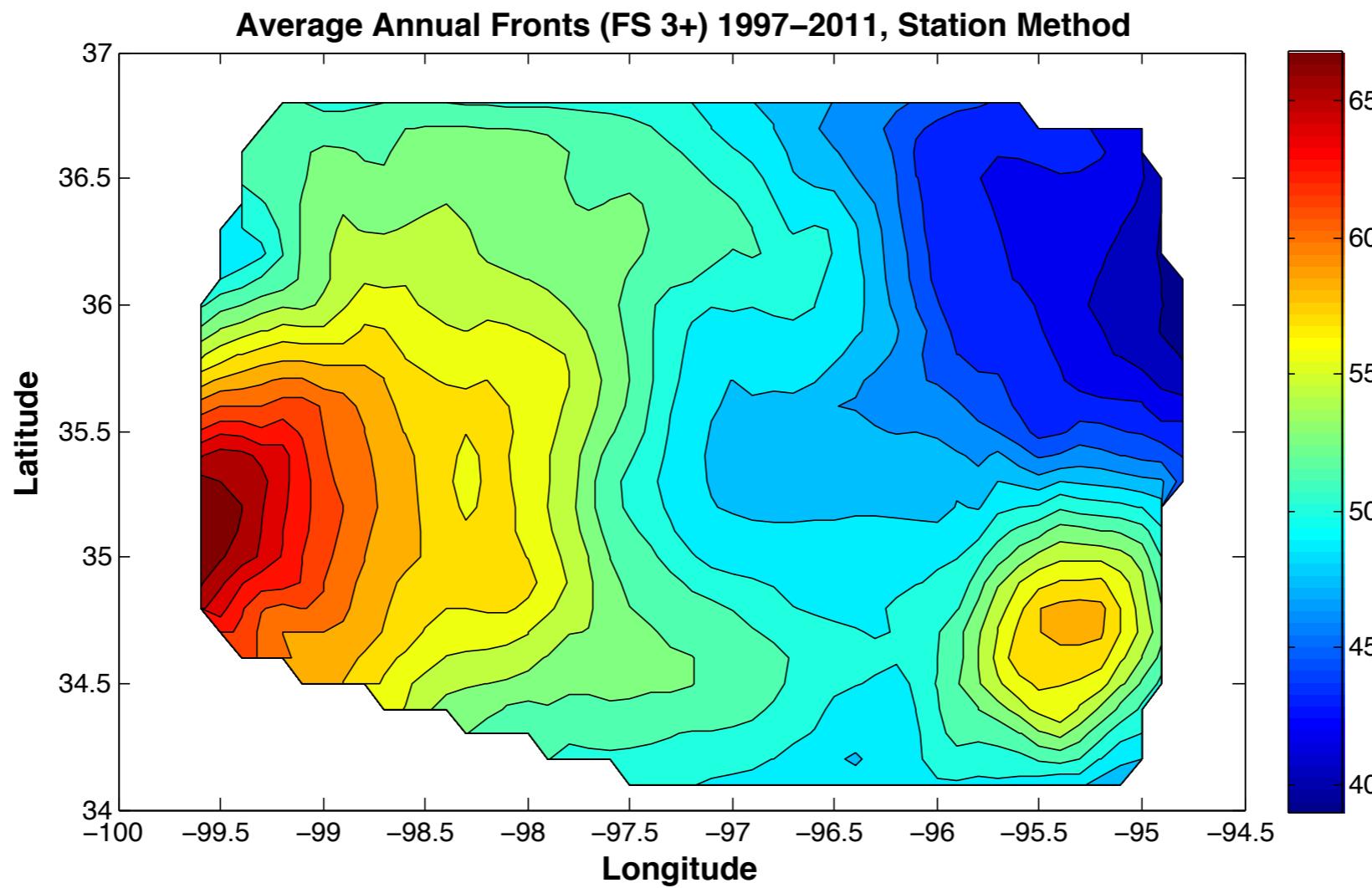


# Geographic Maps of Fronts and Cold Pools

\* = figure used in paper draft  
(with dots instead of  
contours)

# All Fronts

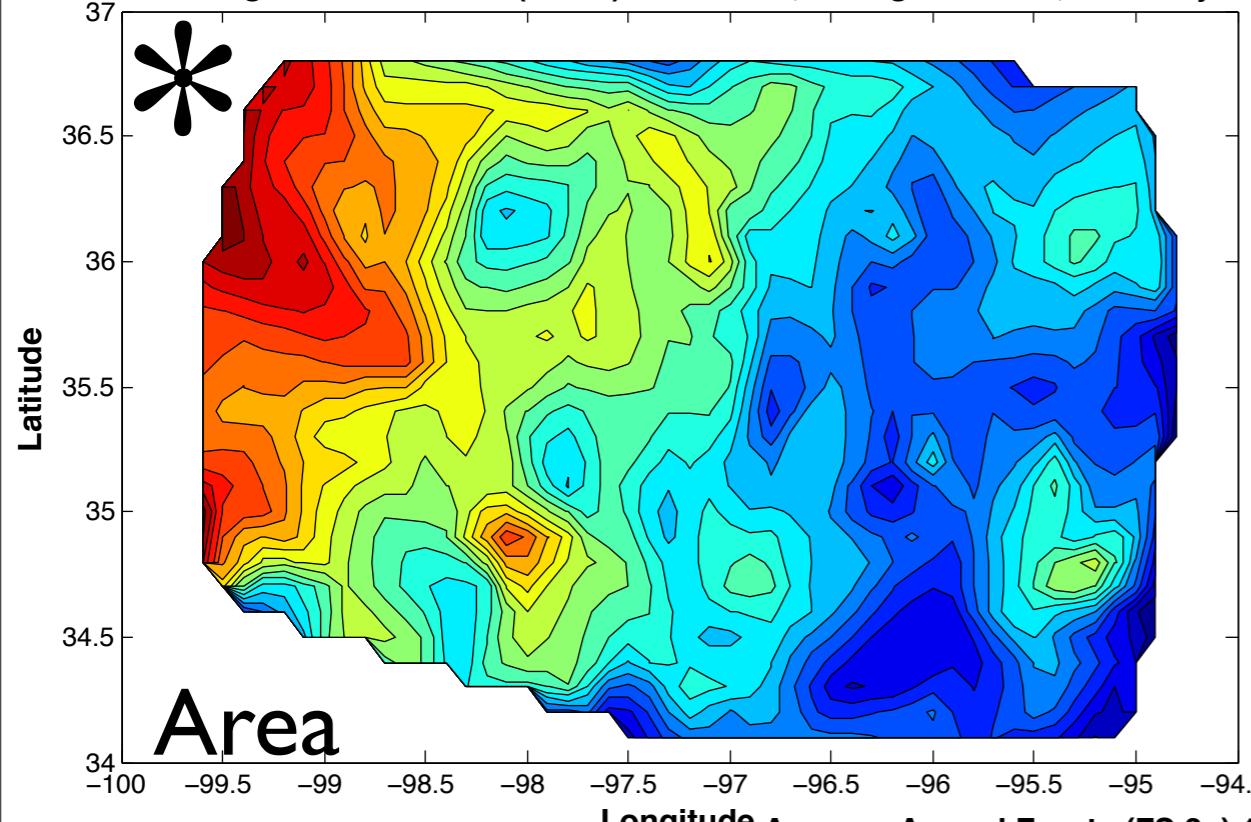
# Station Method



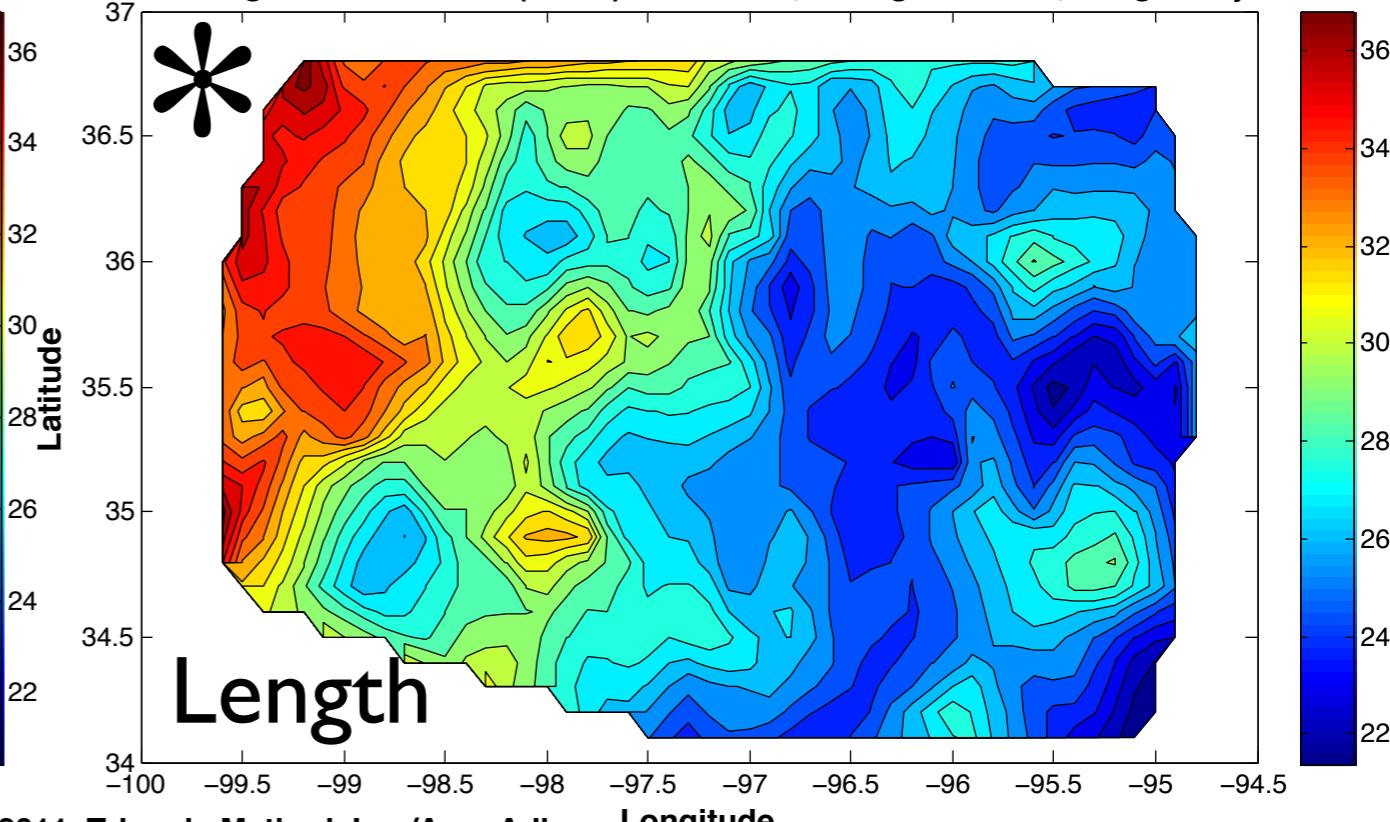
Uses station values, and all the adjustments that went into that (variance threshold, cooldown timer, neighbor check)

# Triangle Method

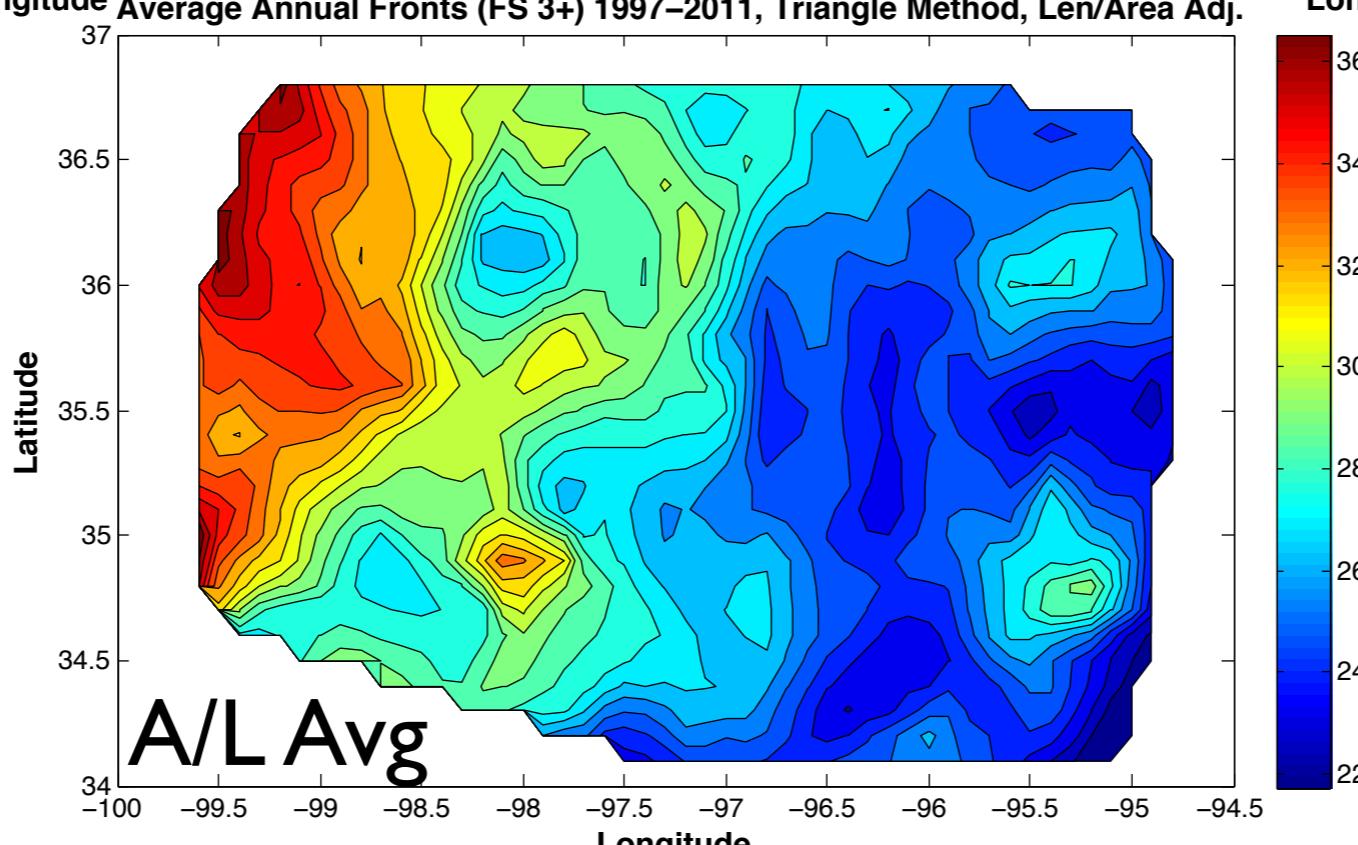
Average Annual Fronts (FS 3+) 1997–2011, Triangle Method, Area Adj.



Average Annual Fronts (FS 3+) 1997–2011, Triangle Method, Length Adj.

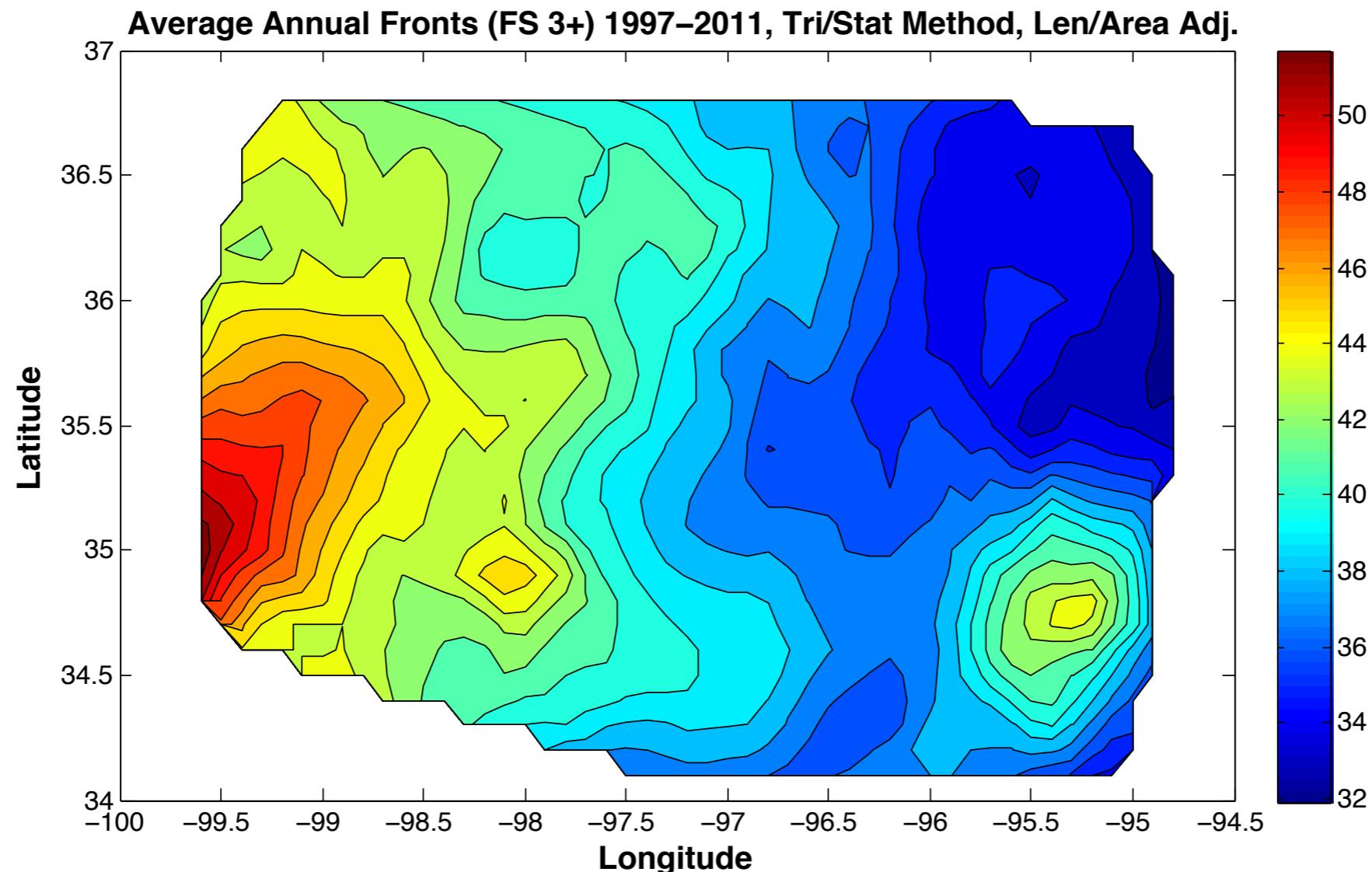


Requires all 3  
corners of  
triangle to  
detect front.



The area and  
length  
adjustments are  
rather similar,  
average is best  
for border.

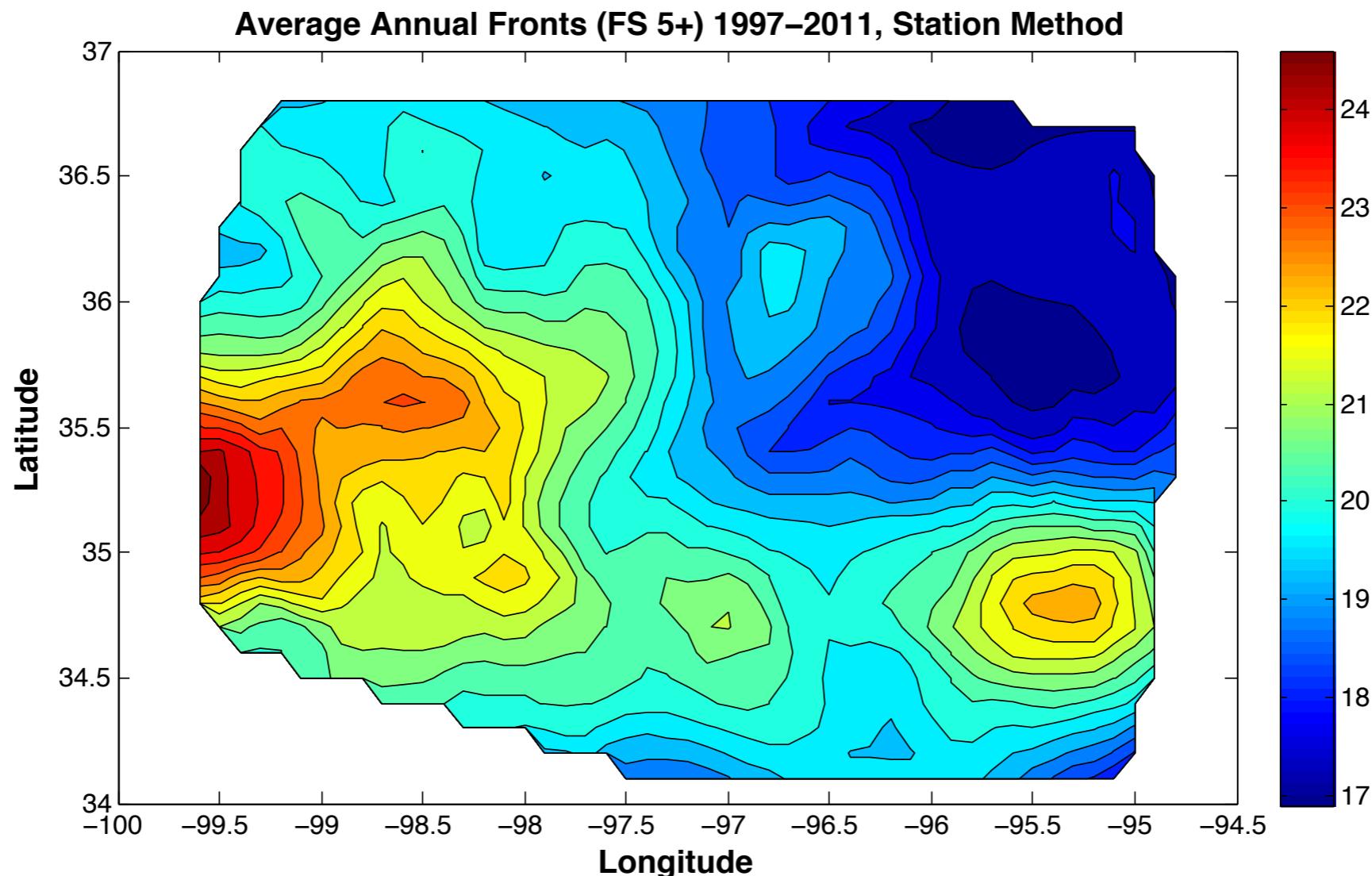
# Station/Triangle Average



Average of slide 2 figure and bottom figure on slide 3.

# Strong Fronts

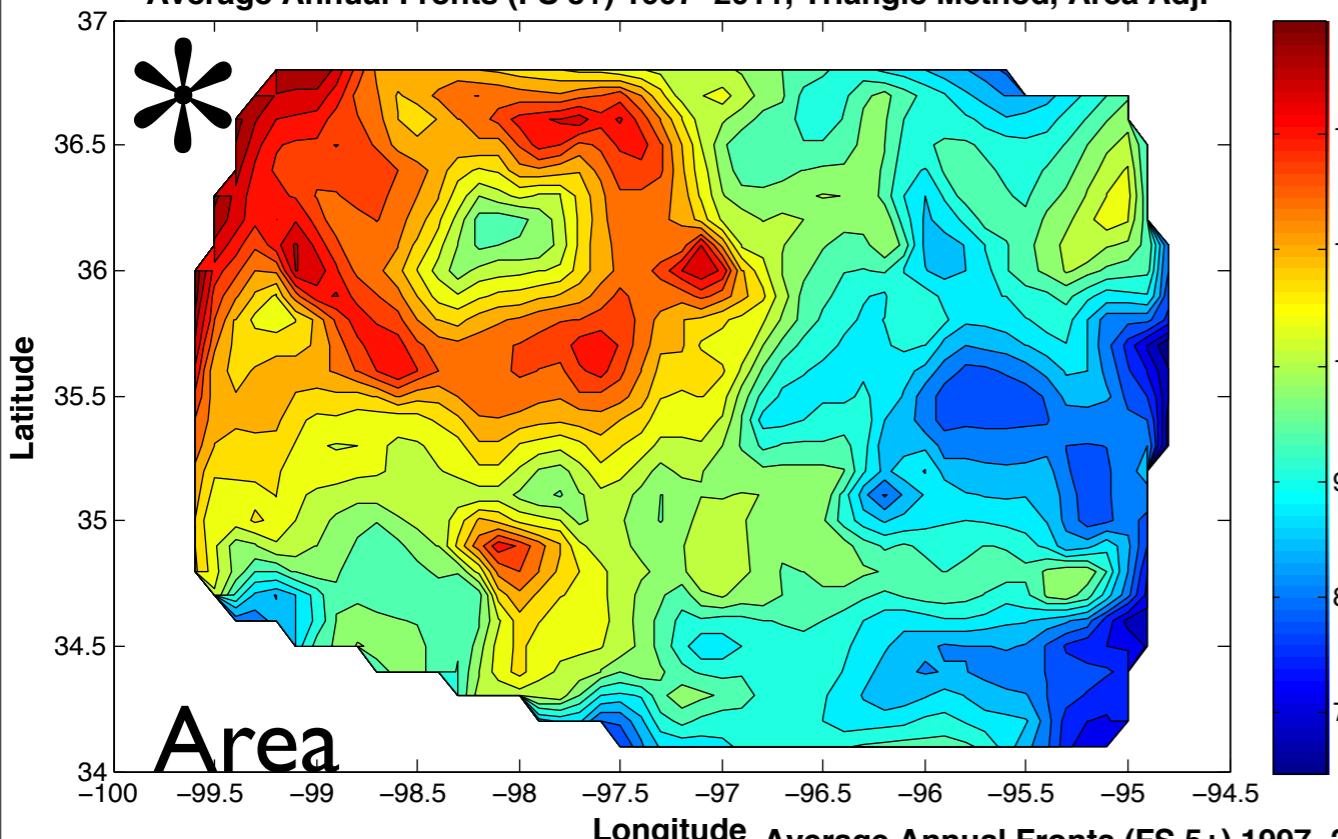
# Station Method



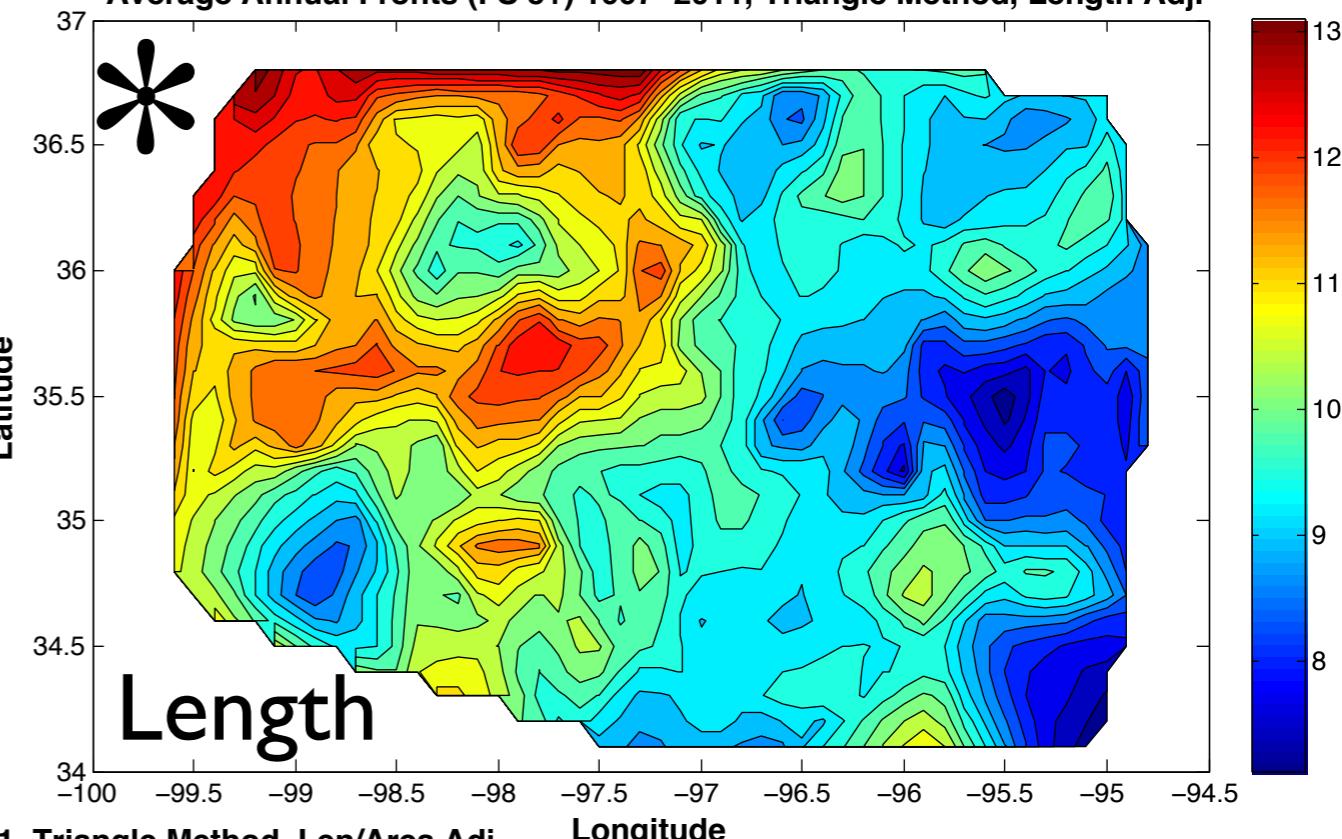
Uses station values, and all the adjustments that went into that (variance threshold, cooldown timer, neighbor check)

# Triangle Method

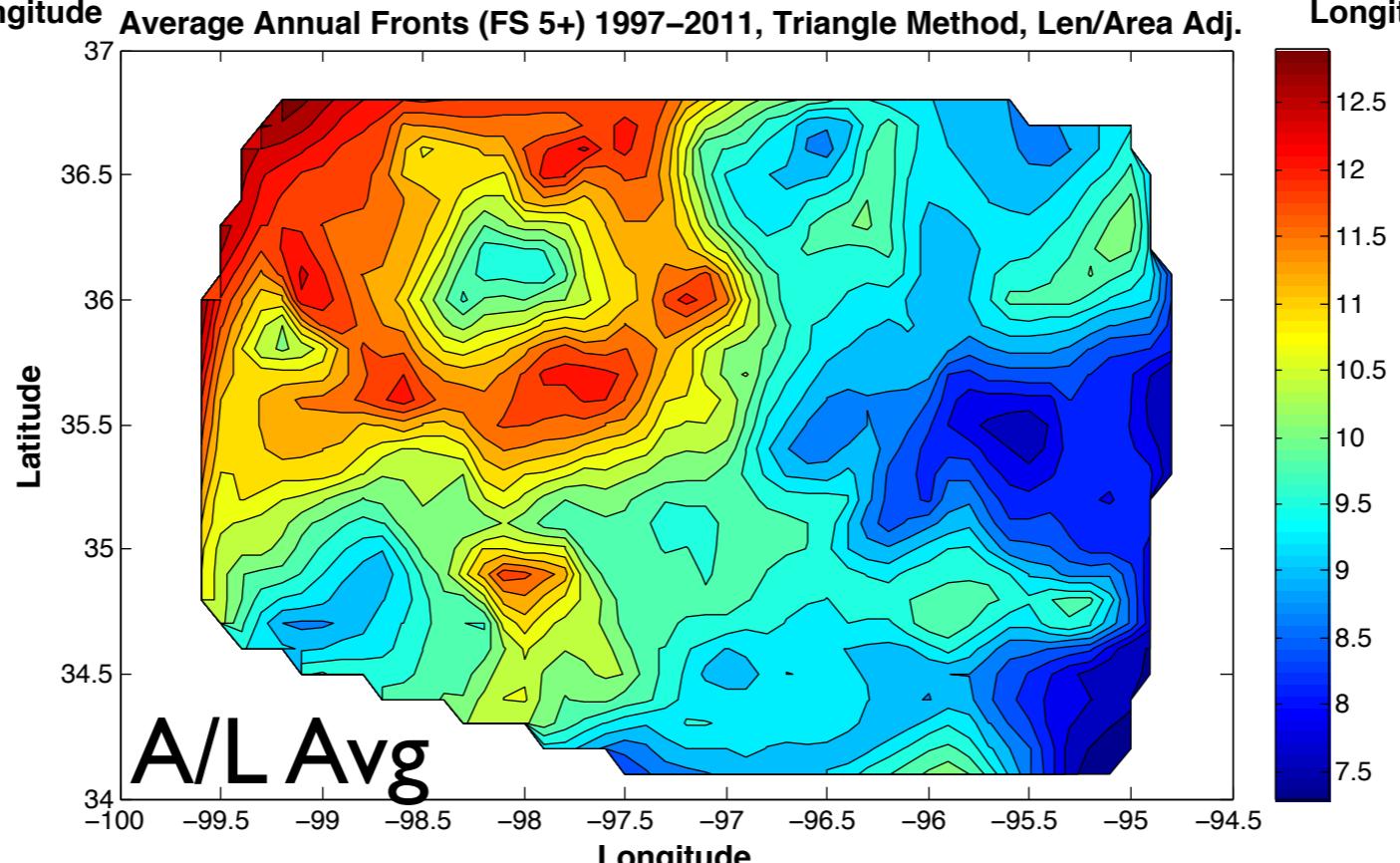
Average Annual Fronts (FS 5+) 1997–2011, Triangle Method, Area Adj.



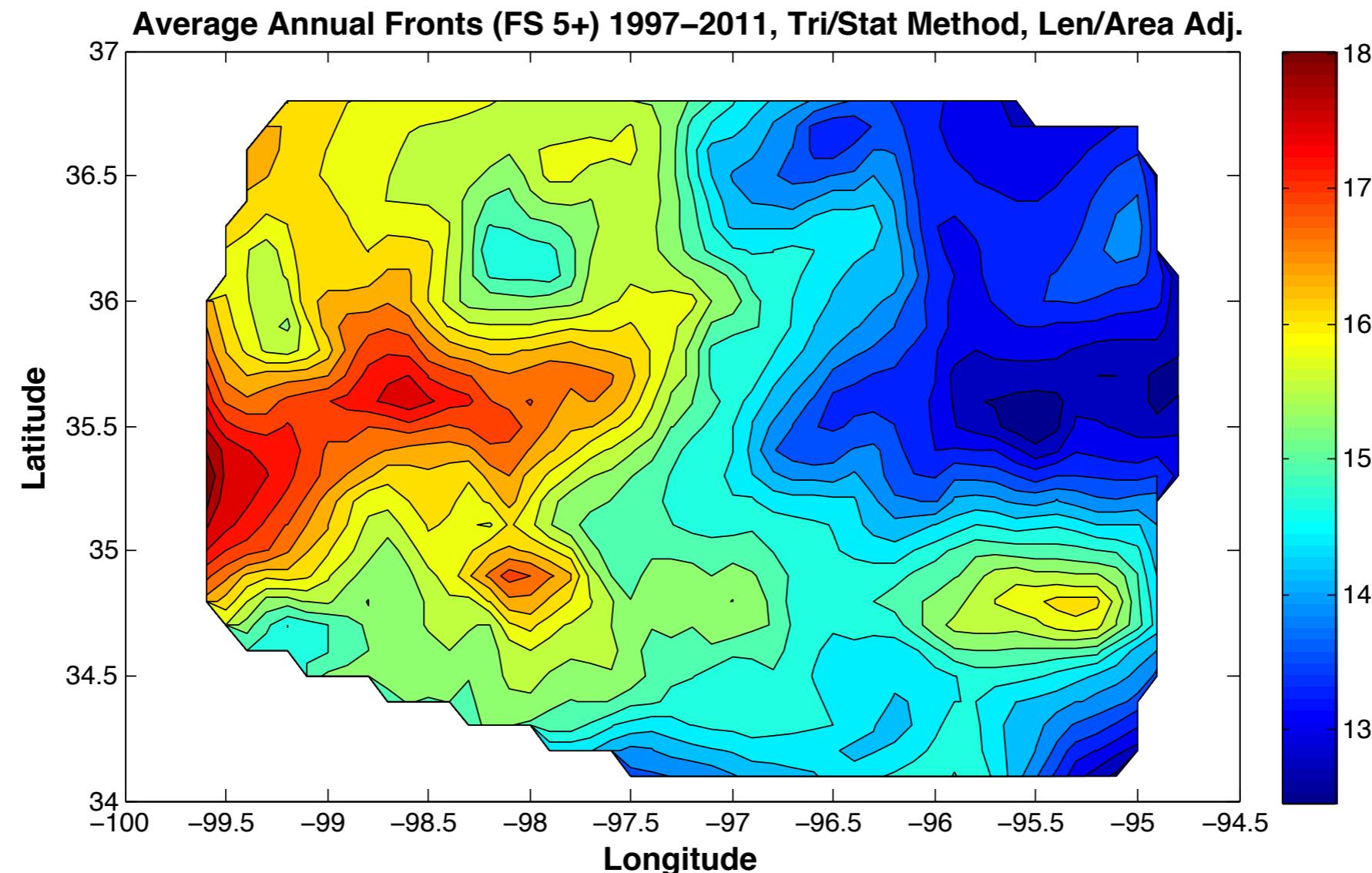
Average Annual Fronts (FS 5+) 1997–2011, Triangle Method, Length Adj.



Requires all 3  
corners of  
triangle to  
detect front.



# Station/Triangle Average

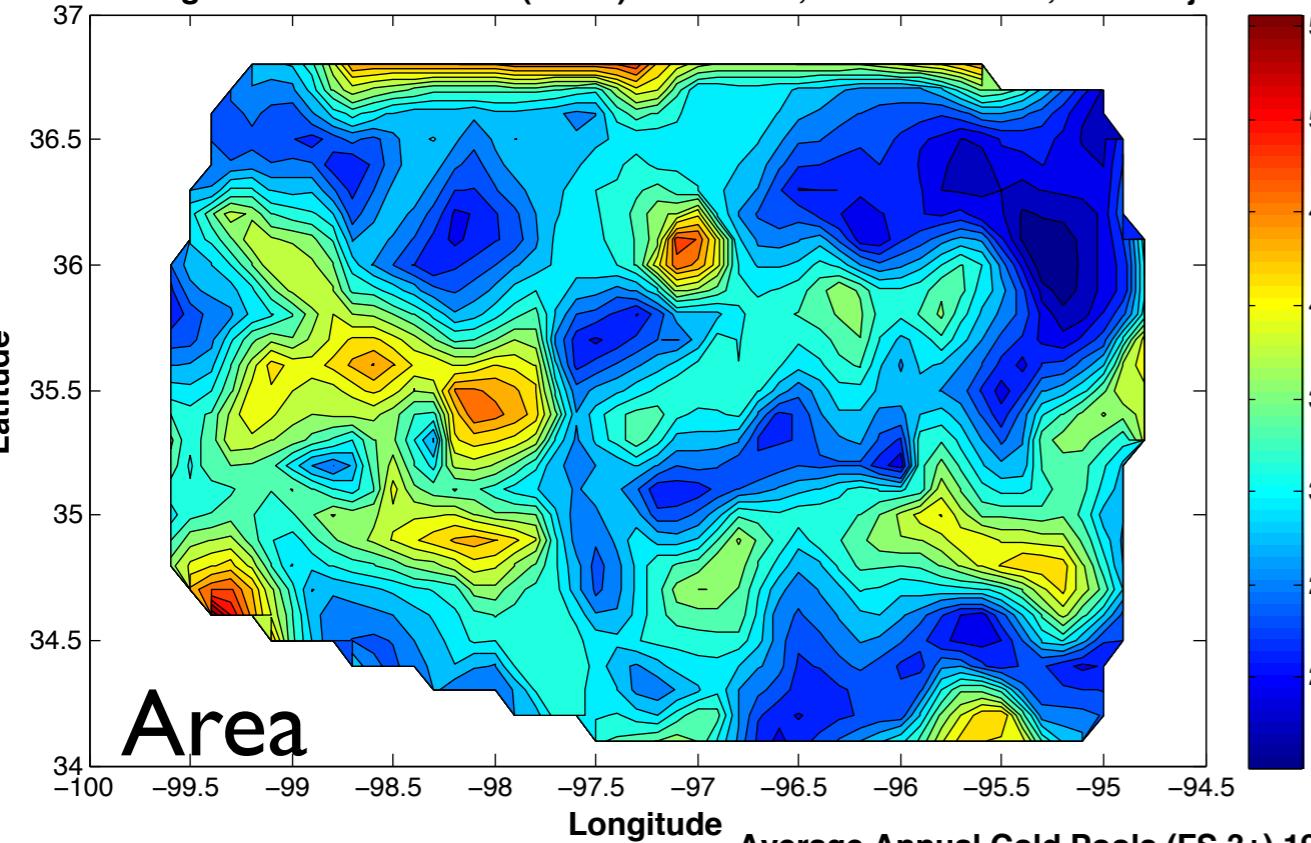


Average of slide 6 figure and bottom figure on slide 7.

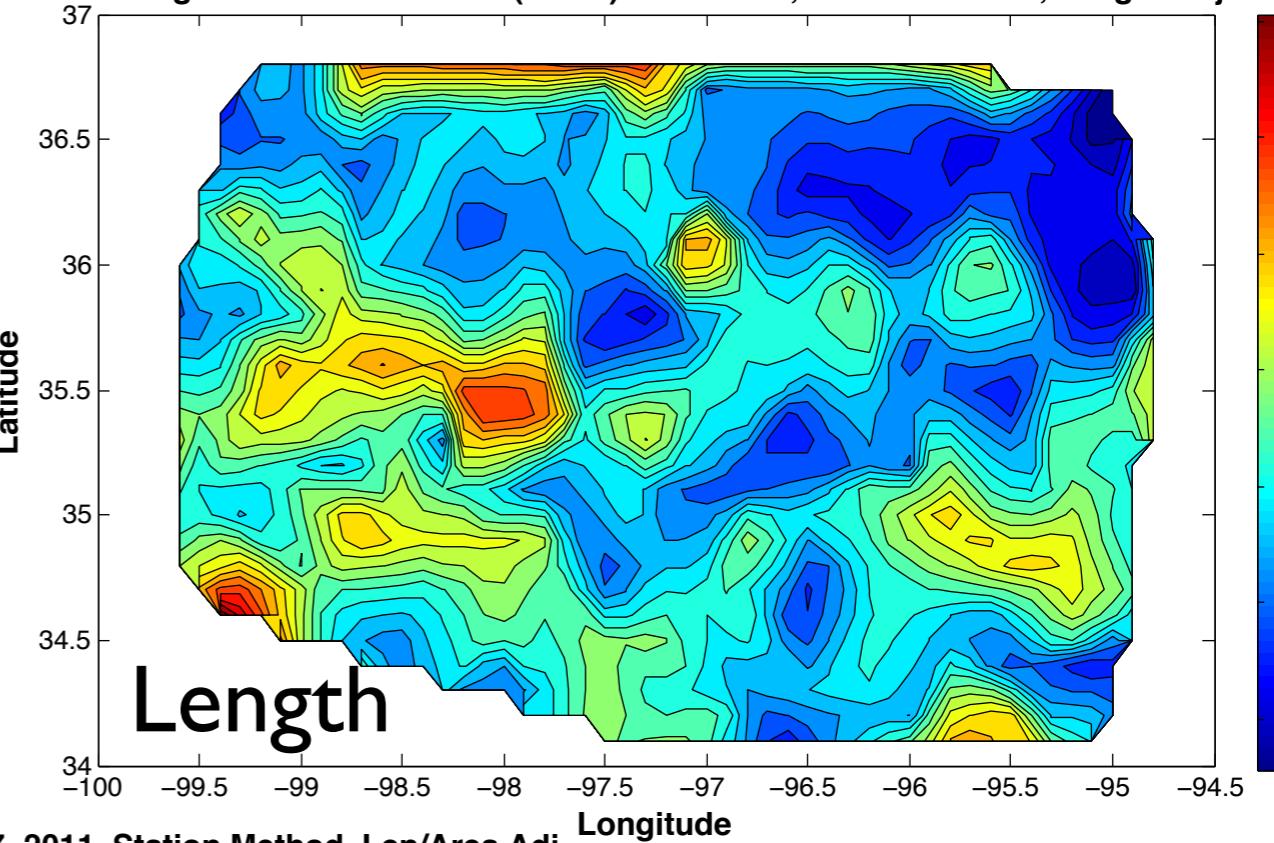
# All Cold Pools

# Station Method

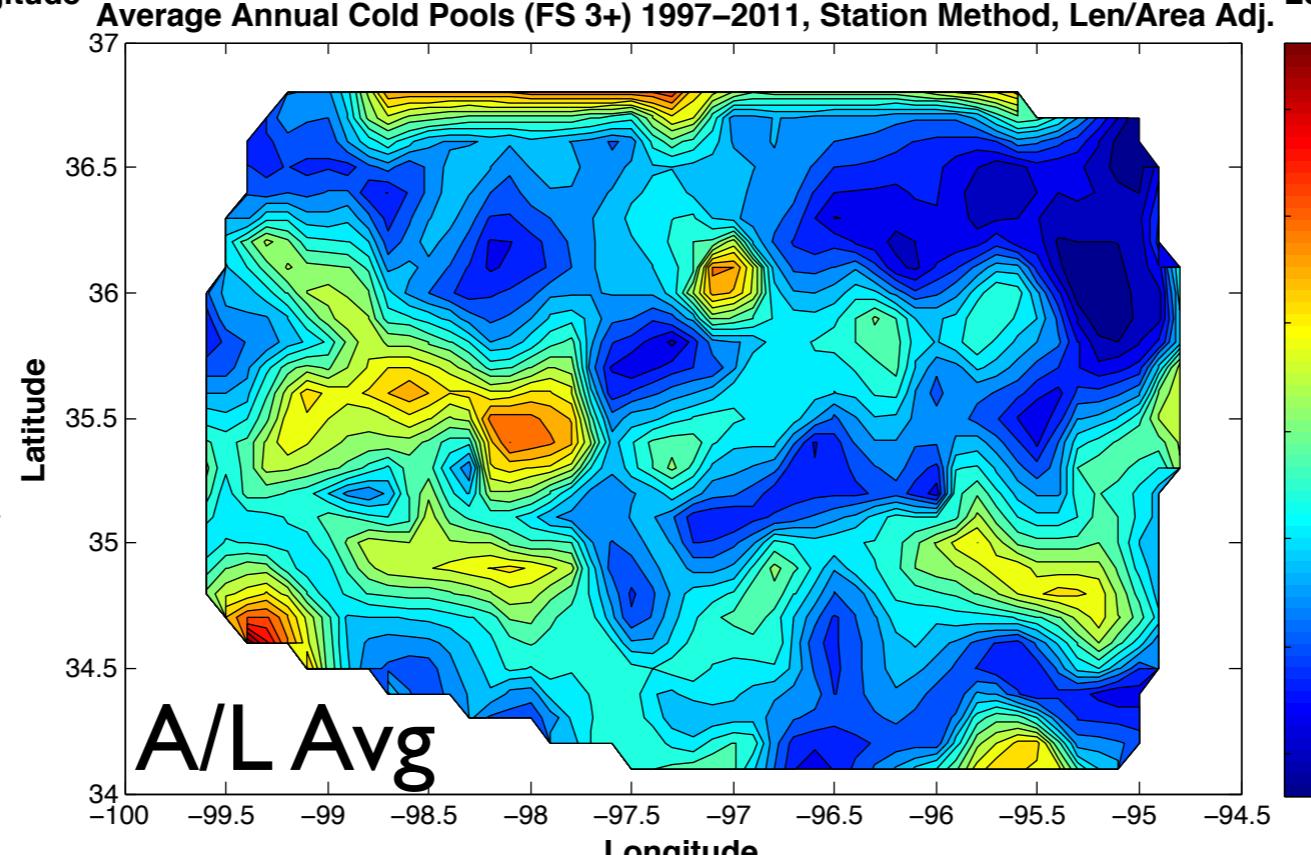
Average Annual Cold Pools (FS 3+) 1997–2011, Station Method, Area Adj.



Average Annual Cold Pools (FS 3+) 1997–2011, Station Method, Length Adj.



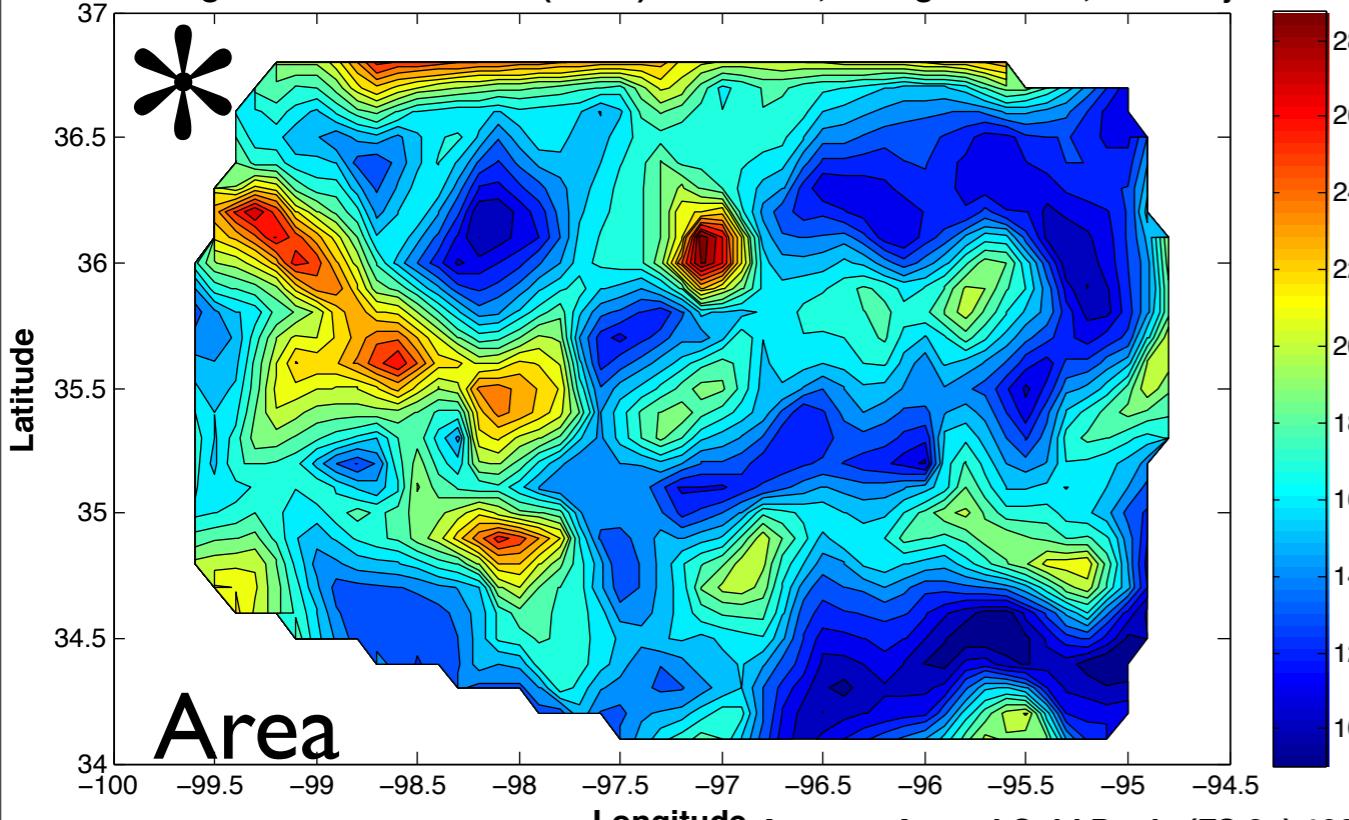
The front:coldpool ratio for the triangle method was assumed for station method.



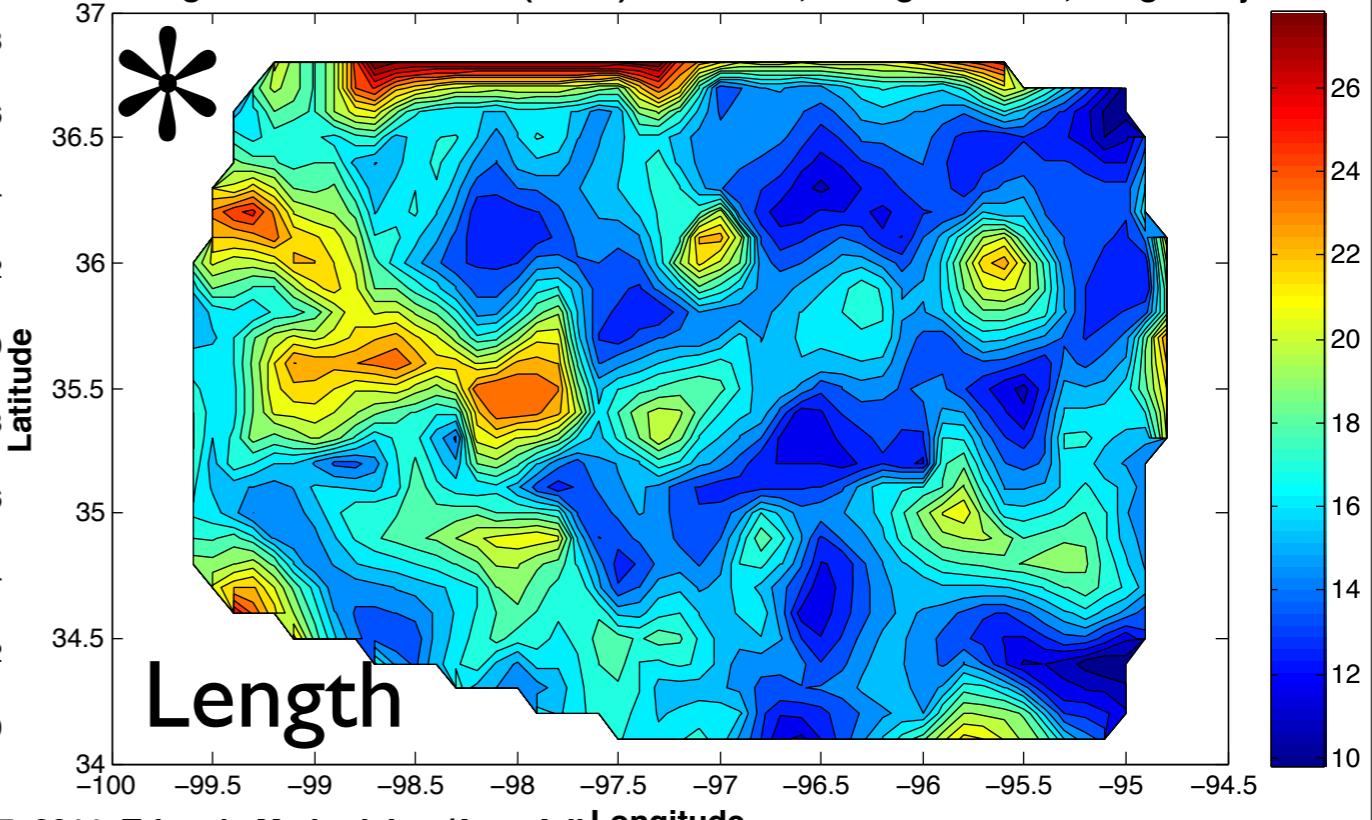
As a result the pattern is similar on this slide and the next.

# Triangle Method

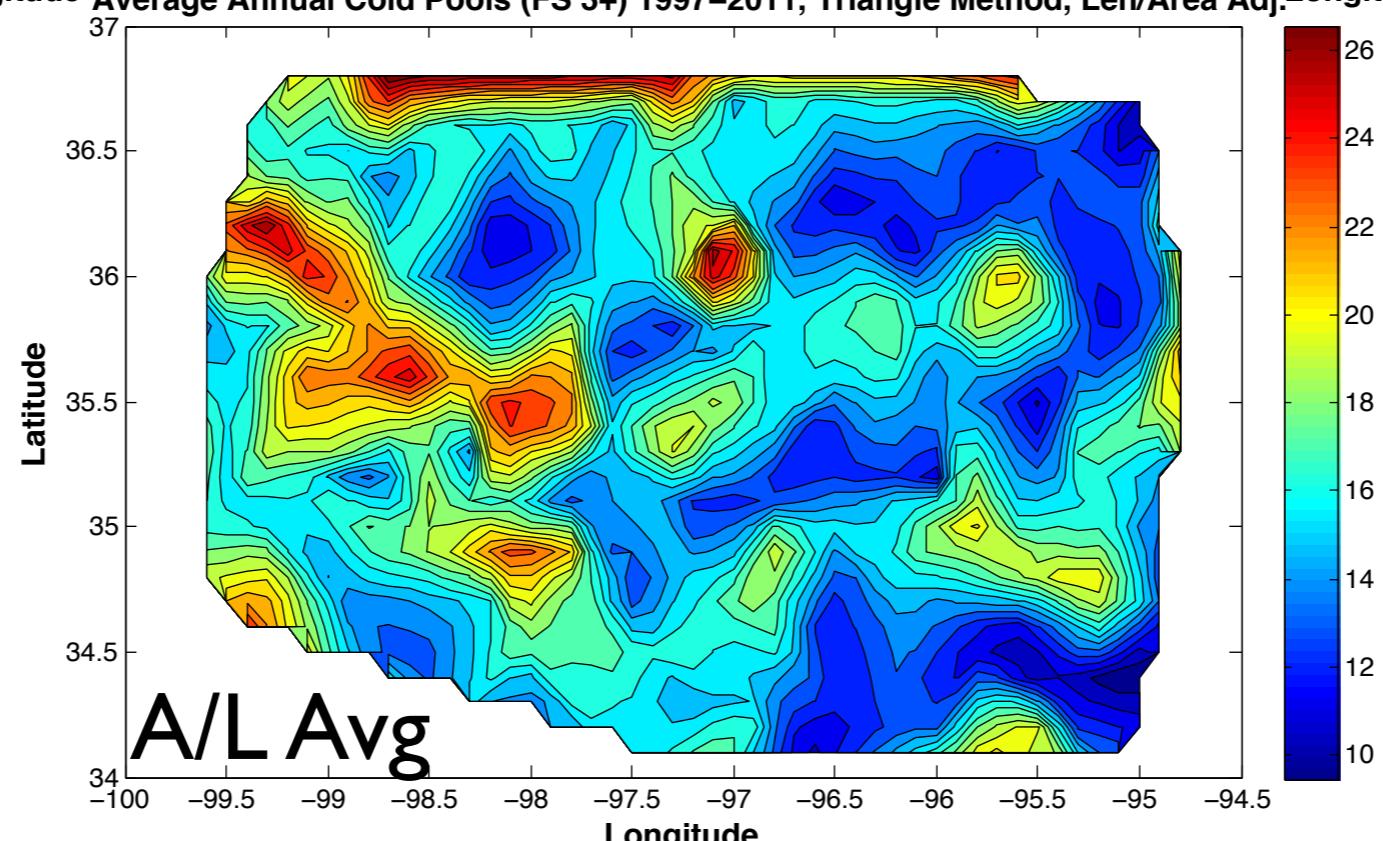
Average Annual Cold Pools (FS 3+) 1997–2011, Triangle Method, Area Adj.



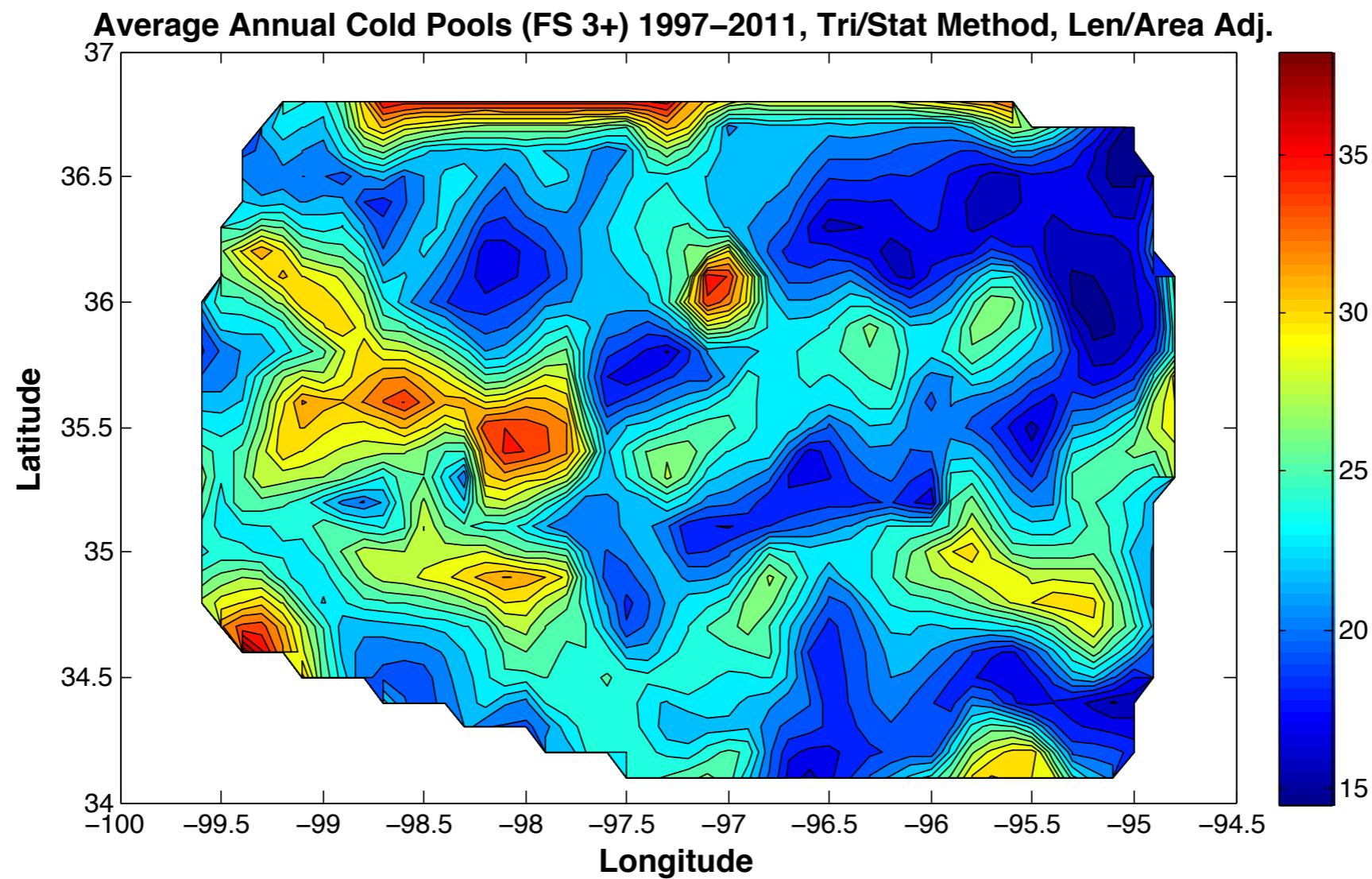
Average Annual Cold Pools (FS 3+) 1997–2011, Triangle Method, Length Adj.



Average Annual Cold Pools (FS 3+) 1997–2011, Triangle Method, Len/Area Adj.



# Station/Triangle Average

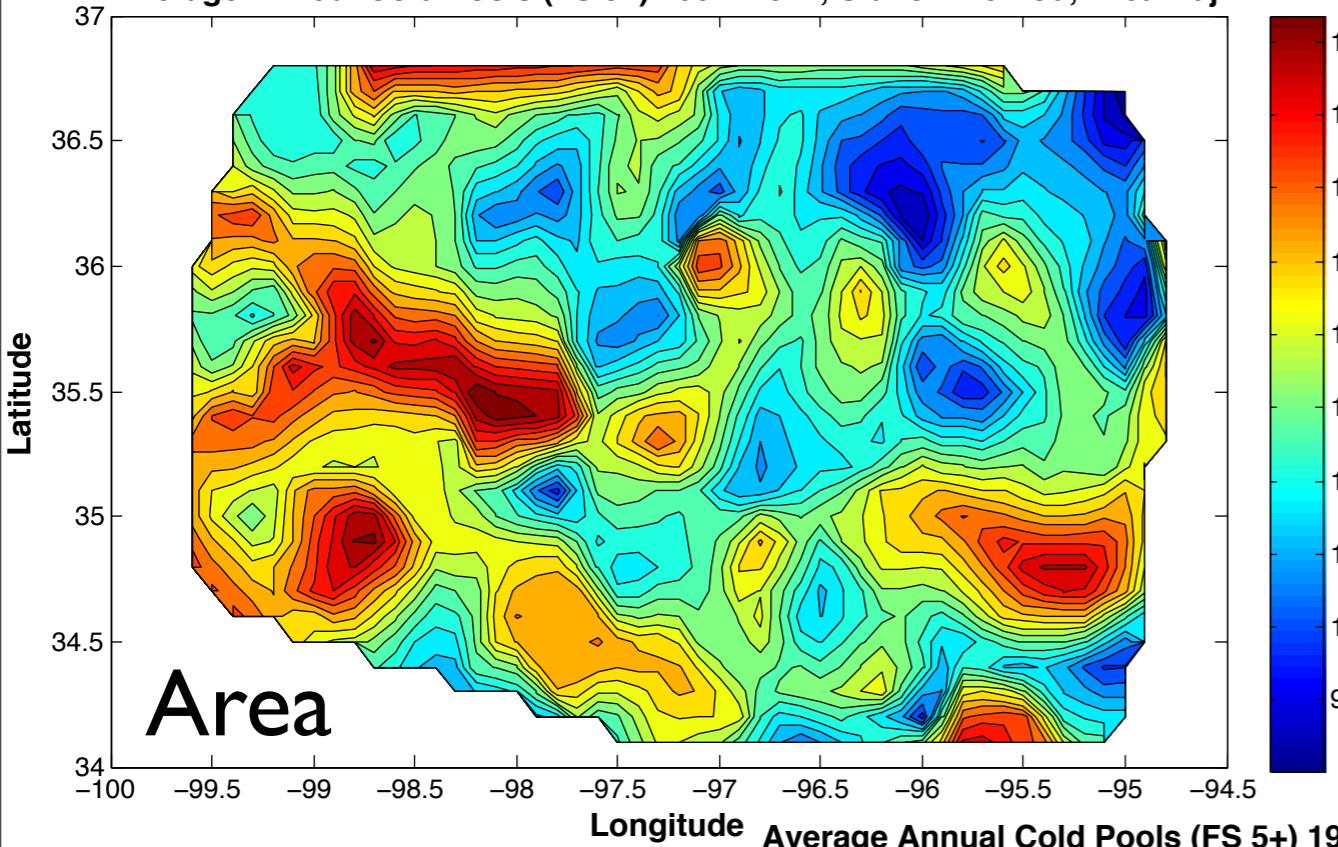


Average of bottom figure on slide 10 and  
bottom figure on slide 11.

# **Cold Pools From Strong Fronts**

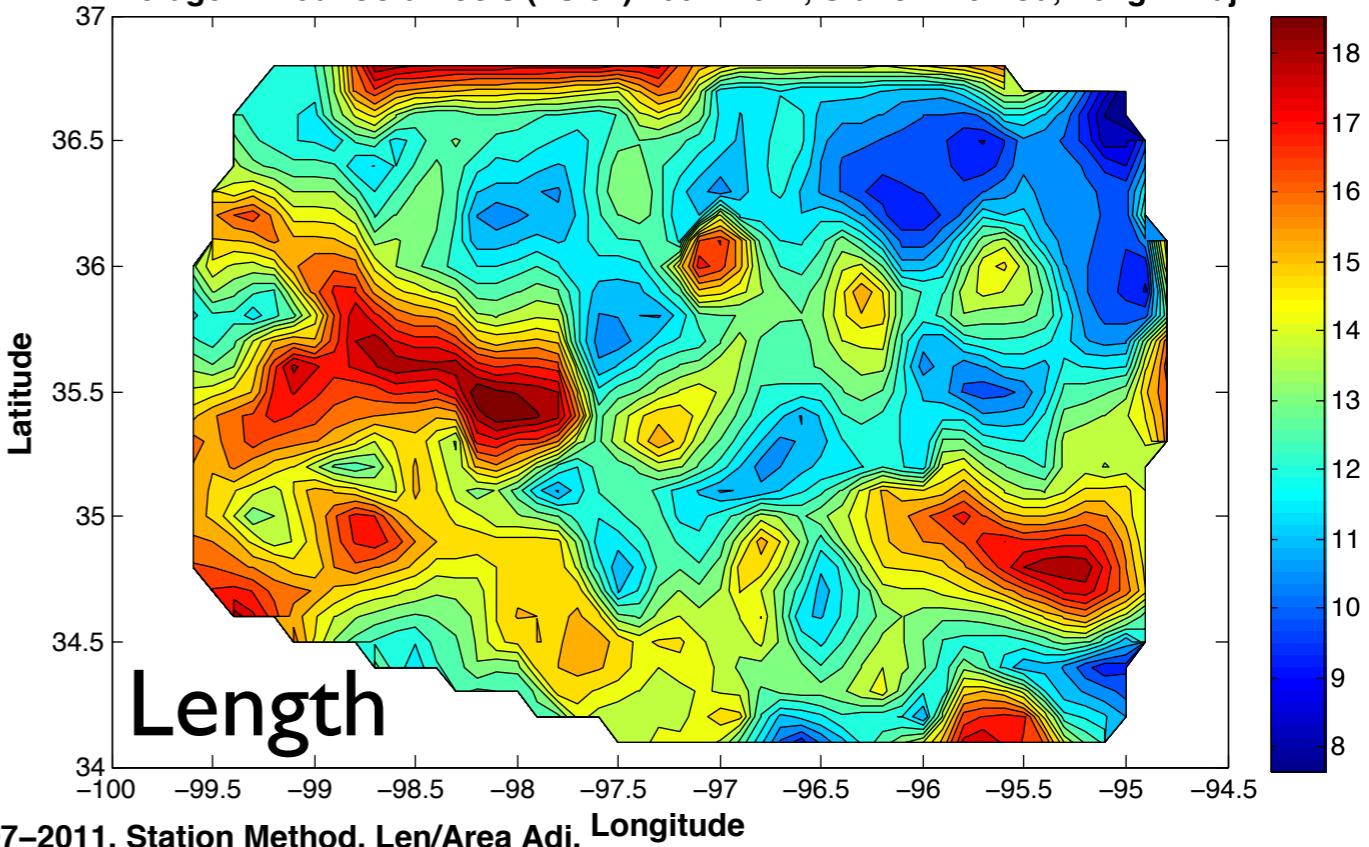
# Station Method

Average Annual Cold Pools (FS 5+) 1997–2011, Station Method, Area Adj.



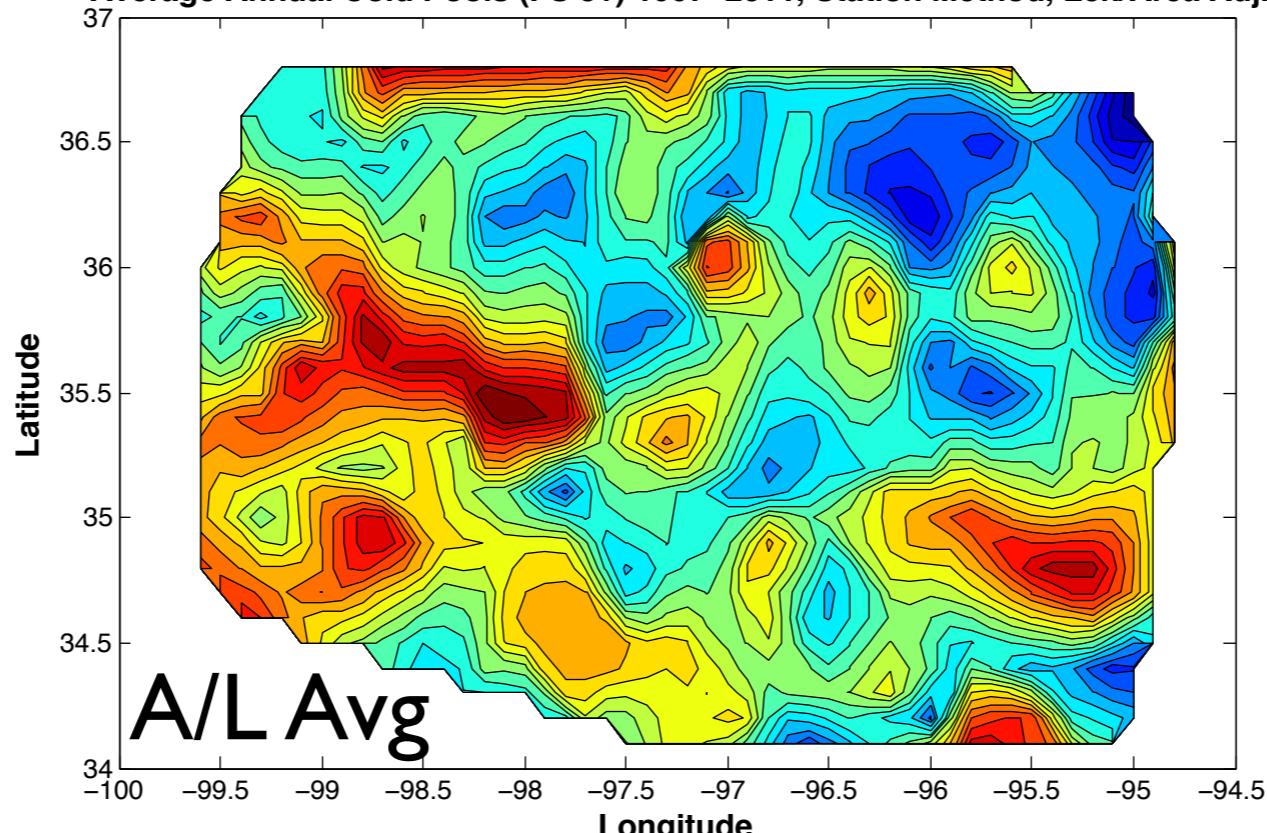
Area

Average Annual Cold Pools (FS 5+) 1997–2011, Station Method, Length Adj.



Length

Average Annual Cold Pools (FS 5+) 1997–2011, Station Method, Len/Area Adj.



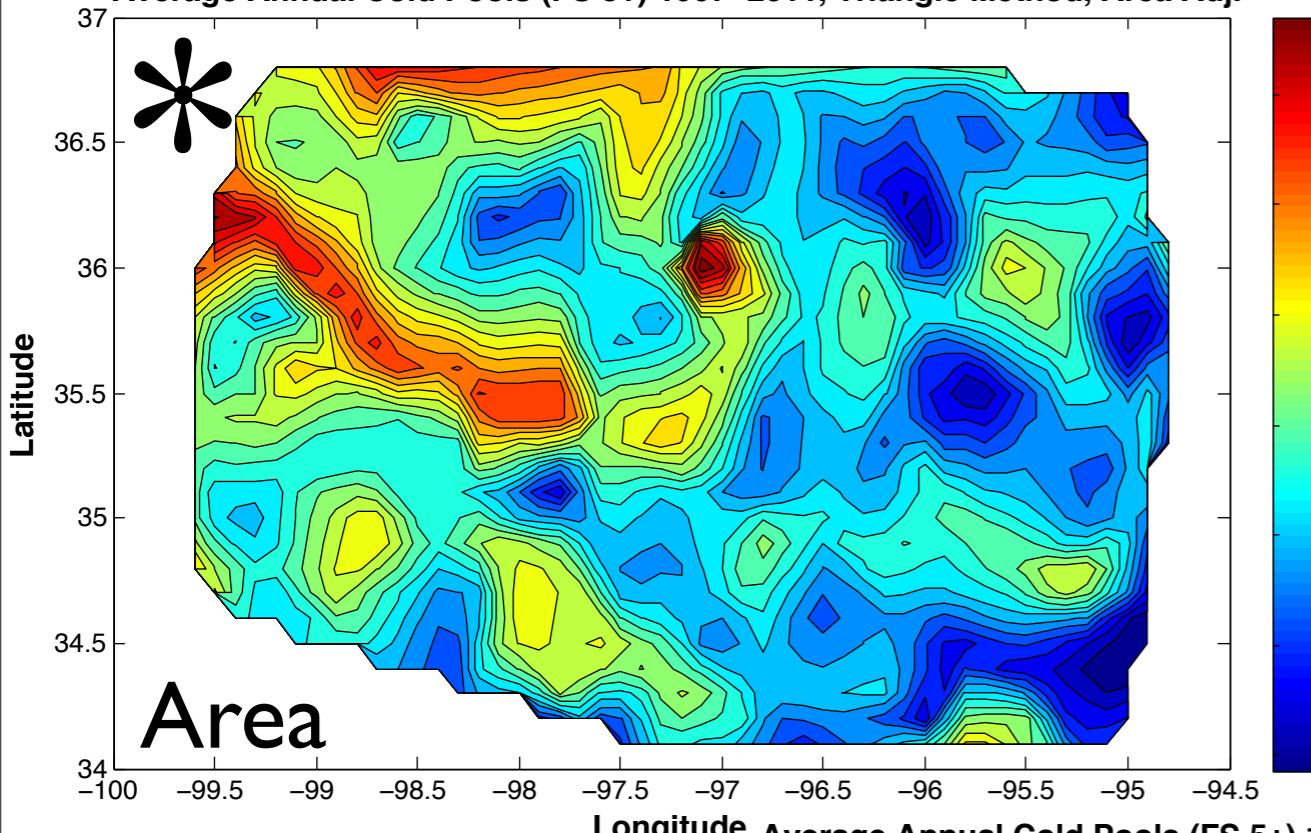
A/L Avg

The front:coldpool ratio for the triangle method was assumed for station method.  
As a result the pattern is similar on this slide and the next.

The front:coldpool ratio for the triangle method was assumed for station method.

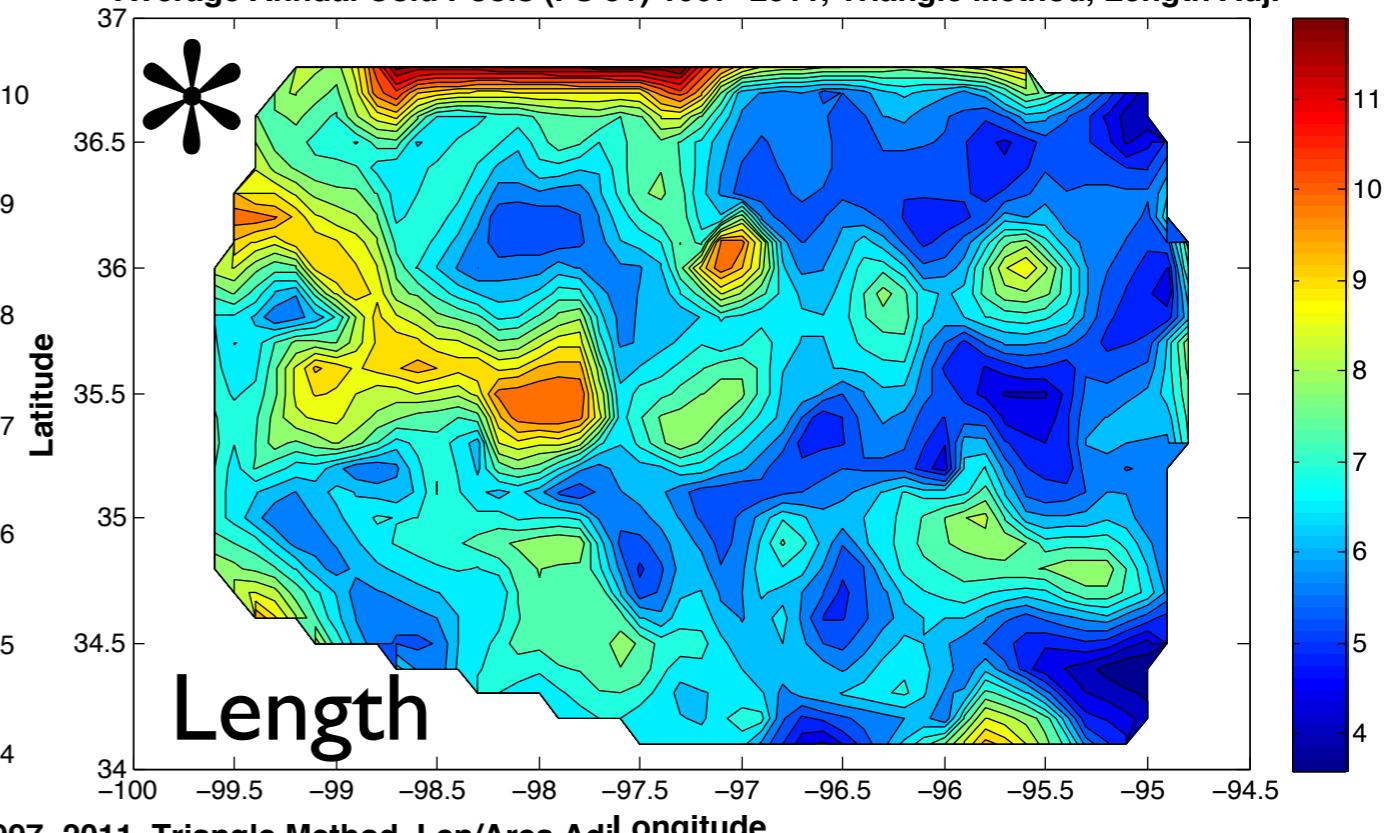
# Triangle Method

Average Annual Cold Pools (FS 5+) 1997–2011, Triangle Method, Area Adj.



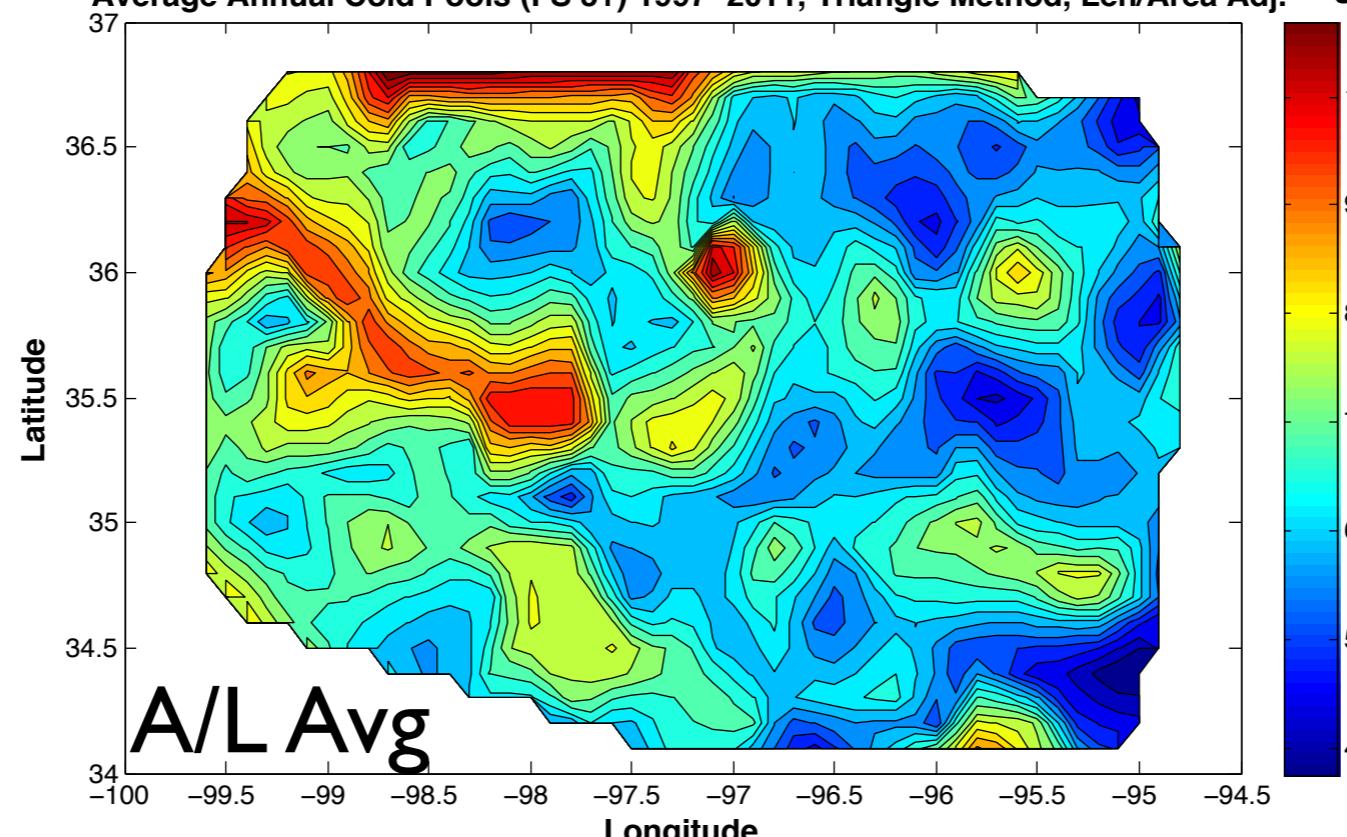
Area

Average Annual Cold Pools (FS 5+) 1997–2011, Triangle Method, Length Adj.



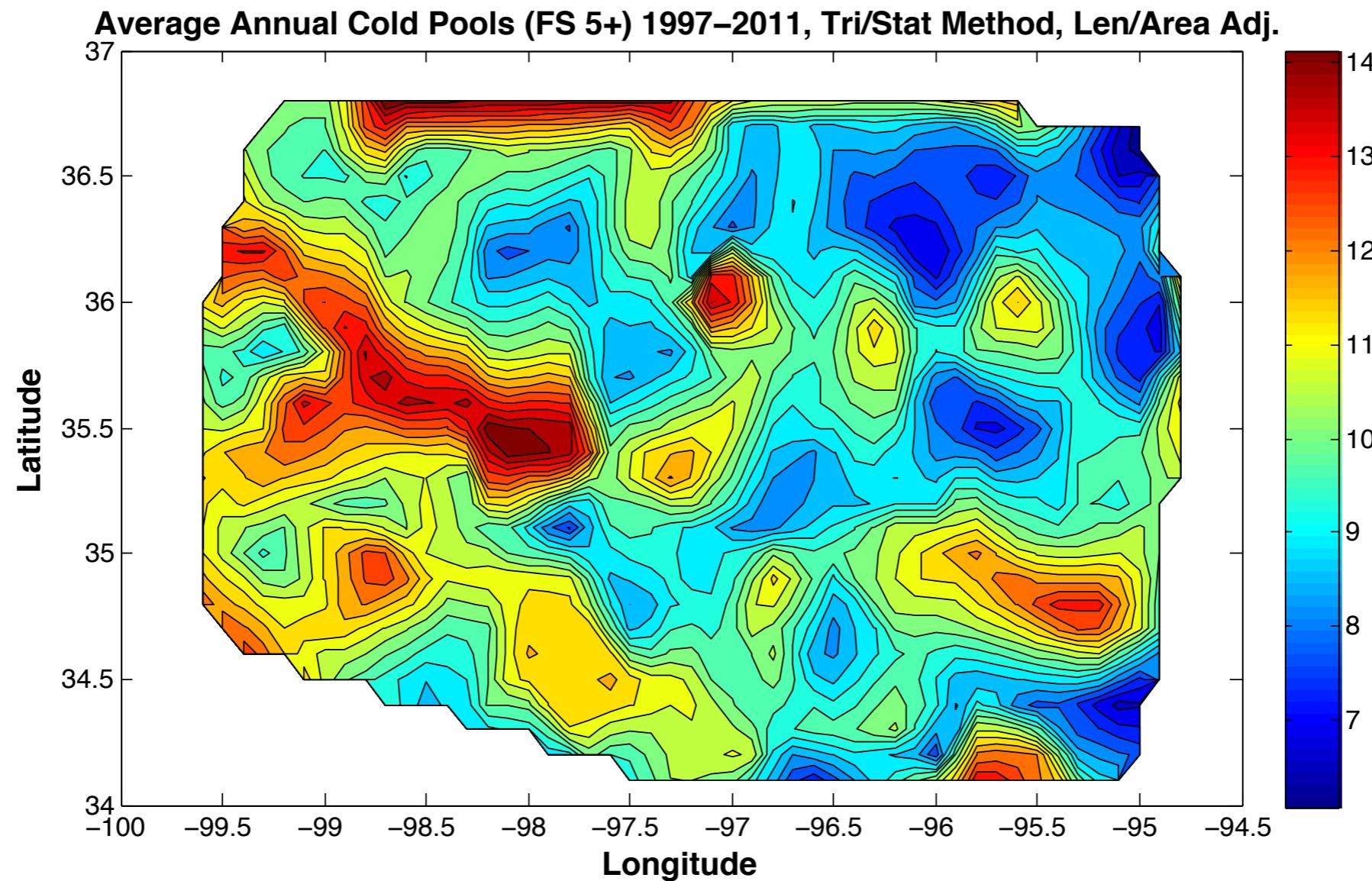
Length

Average Annual Cold Pools (FS 5+) 1997–2011, Triangle Method, Len/Area Adj.



A/L Avg

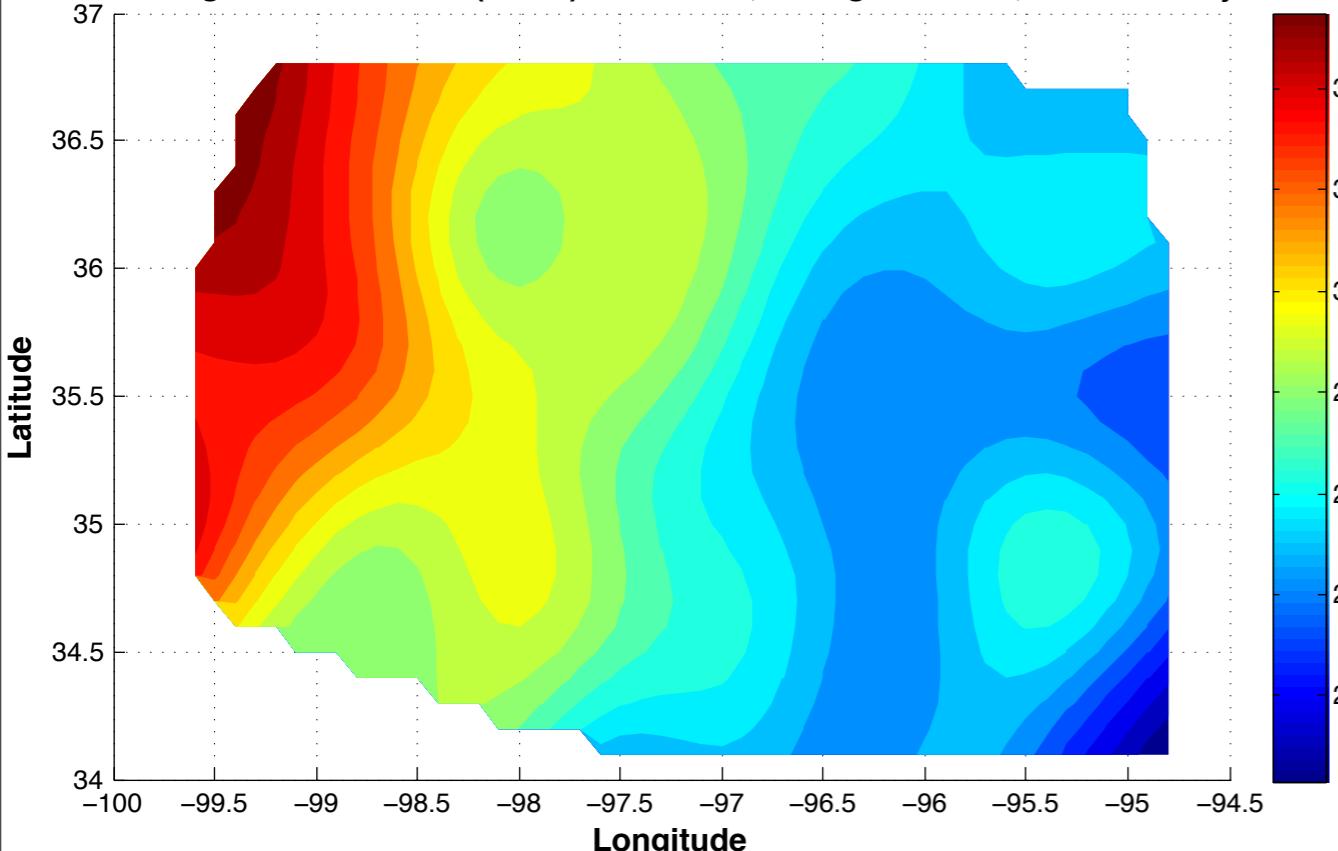
# Station/Triangle Average



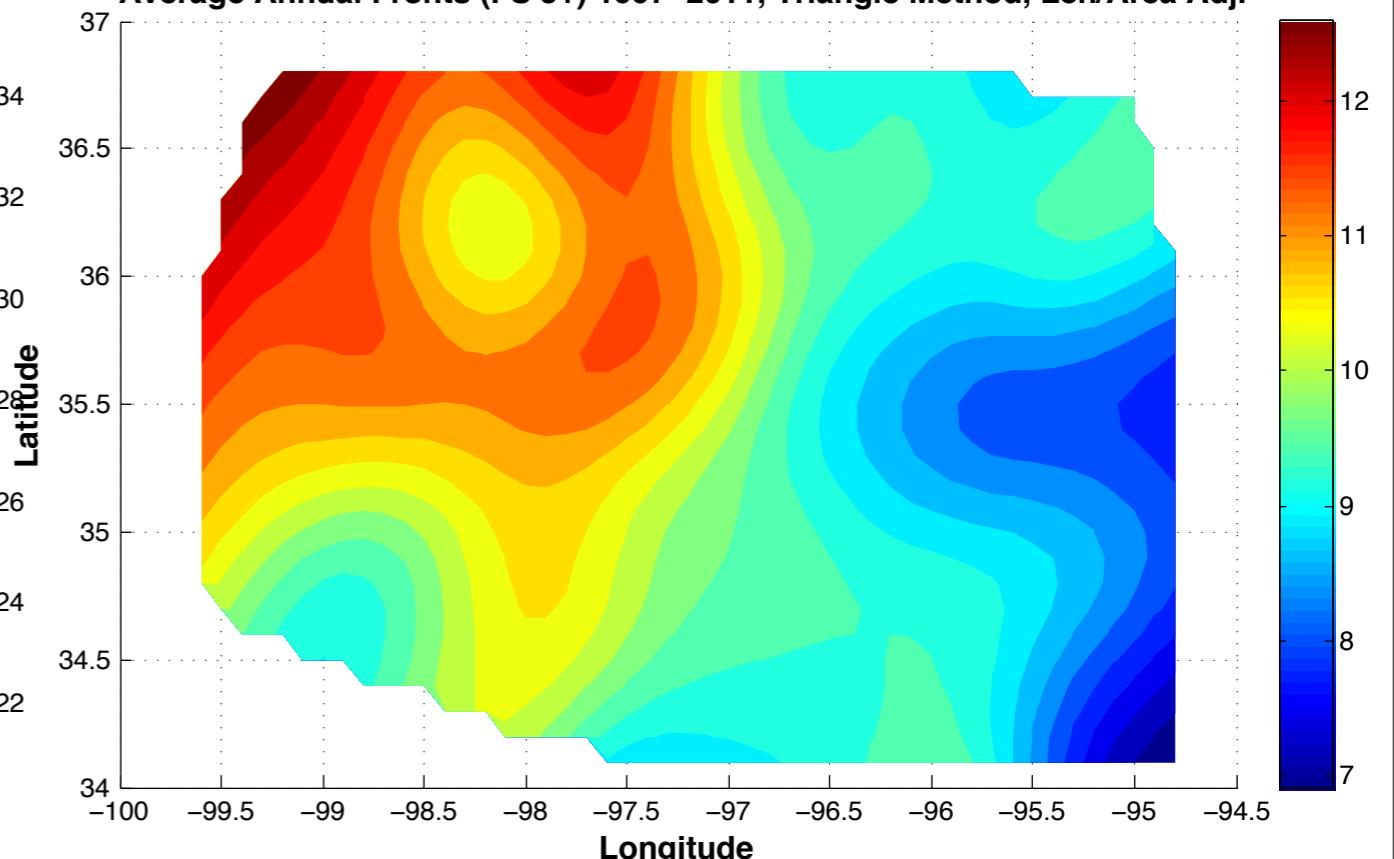
Average of bottom figure on slide 14 and  
bottom figure on slide 15.

# Fronts

Average Annual Fronts (FS 3+) 1997–2011, Triangle Method, Len/Area Adj.

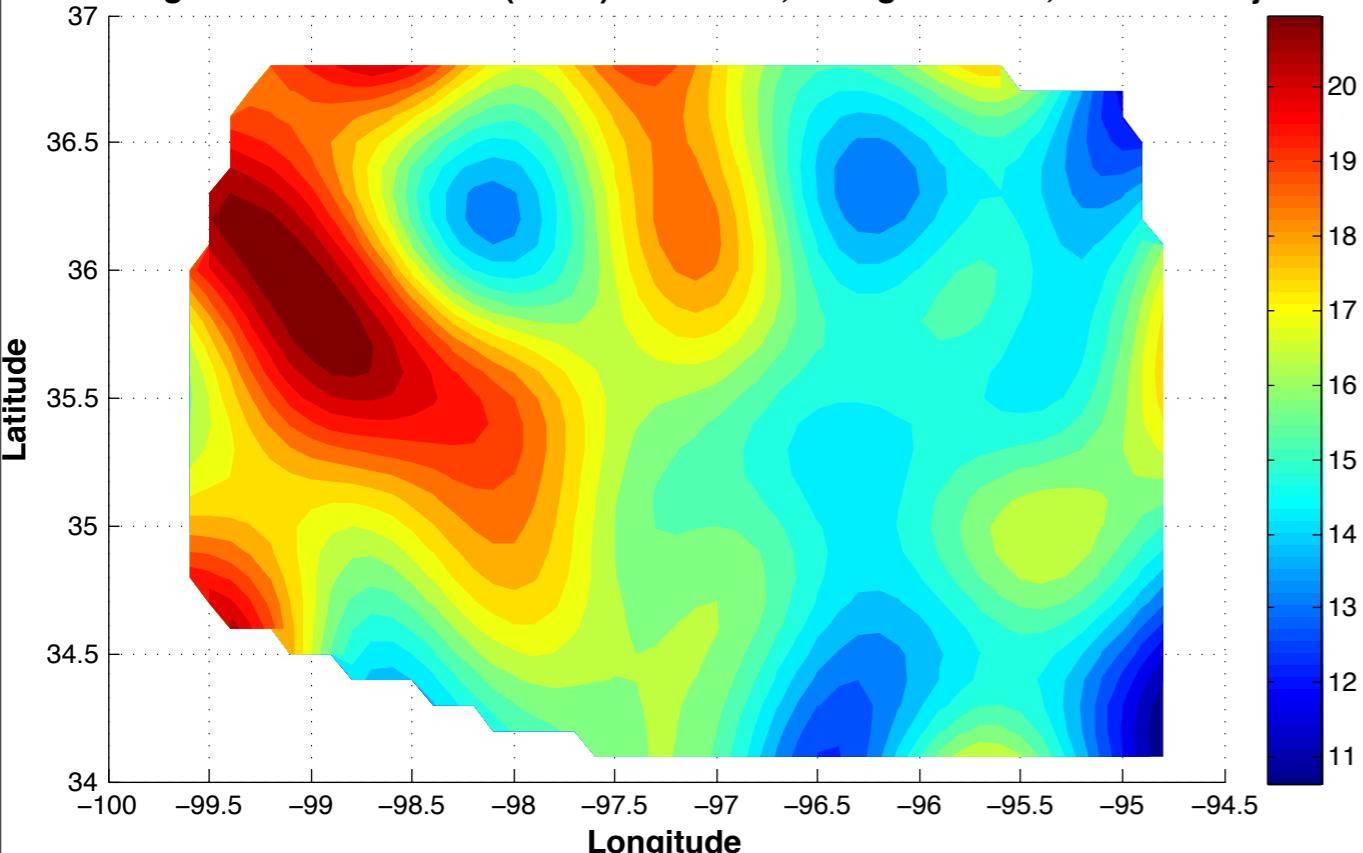


Average Annual Fronts (FS 5+) 1997–2011, Triangle Method, Len/Area Adj.

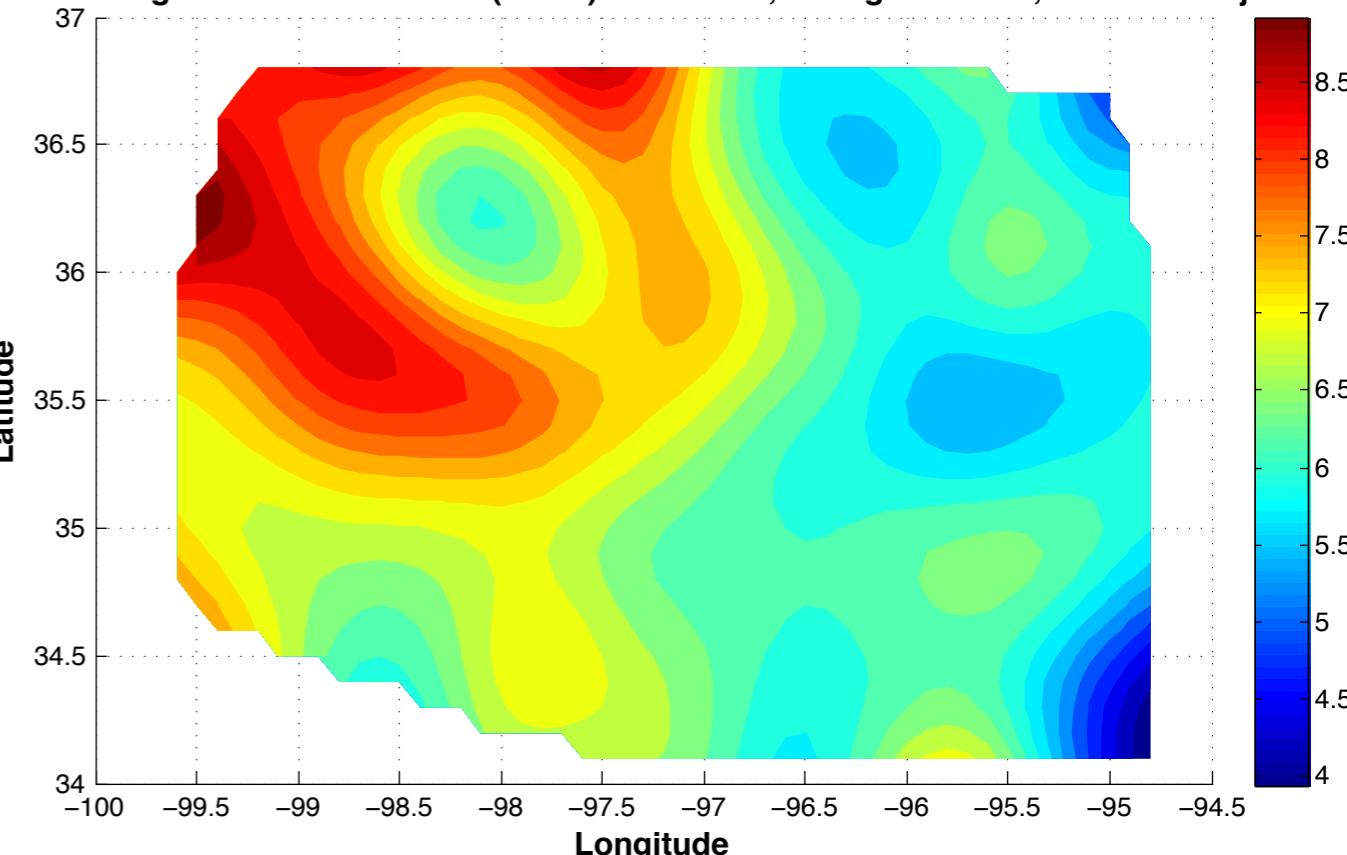


# Cold Pools

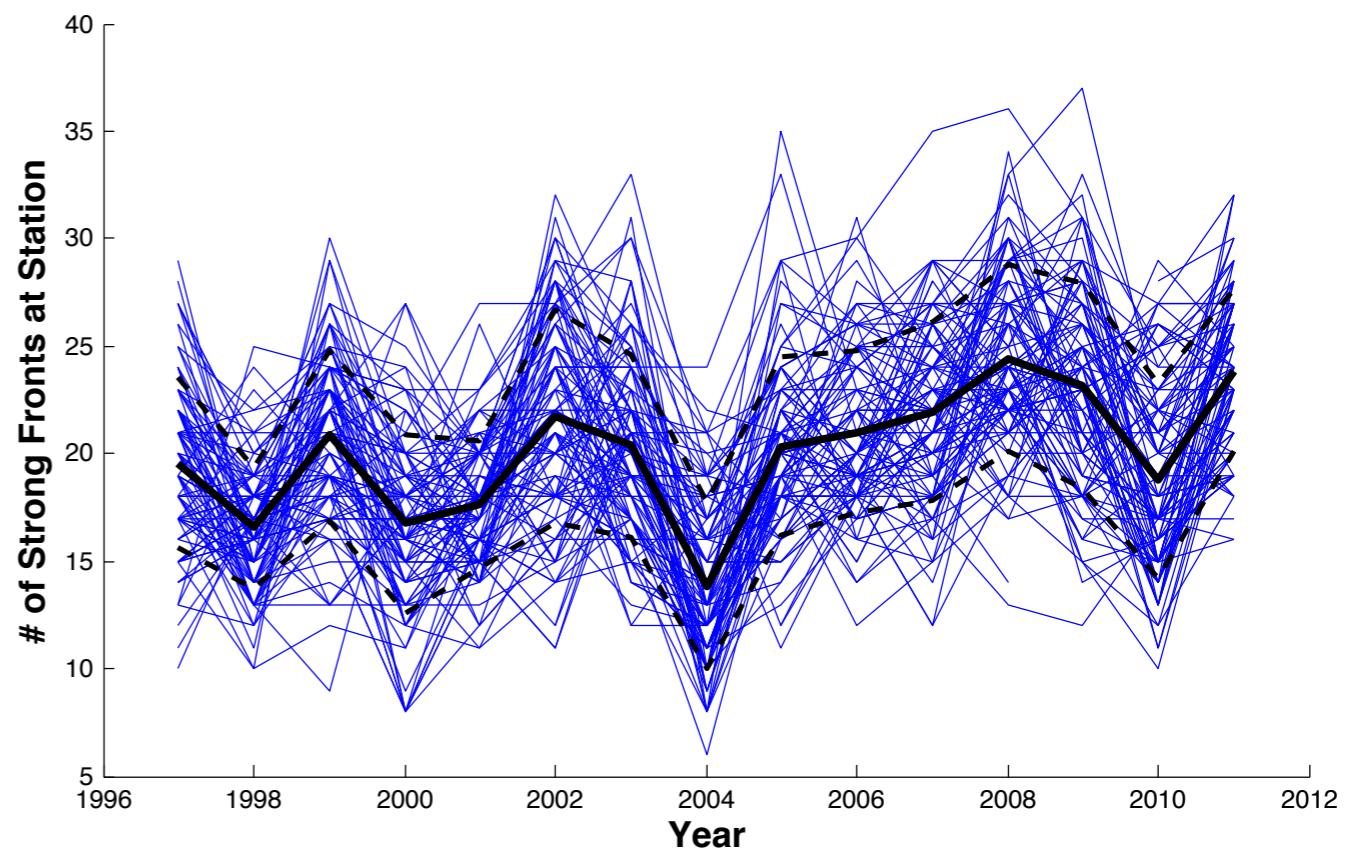
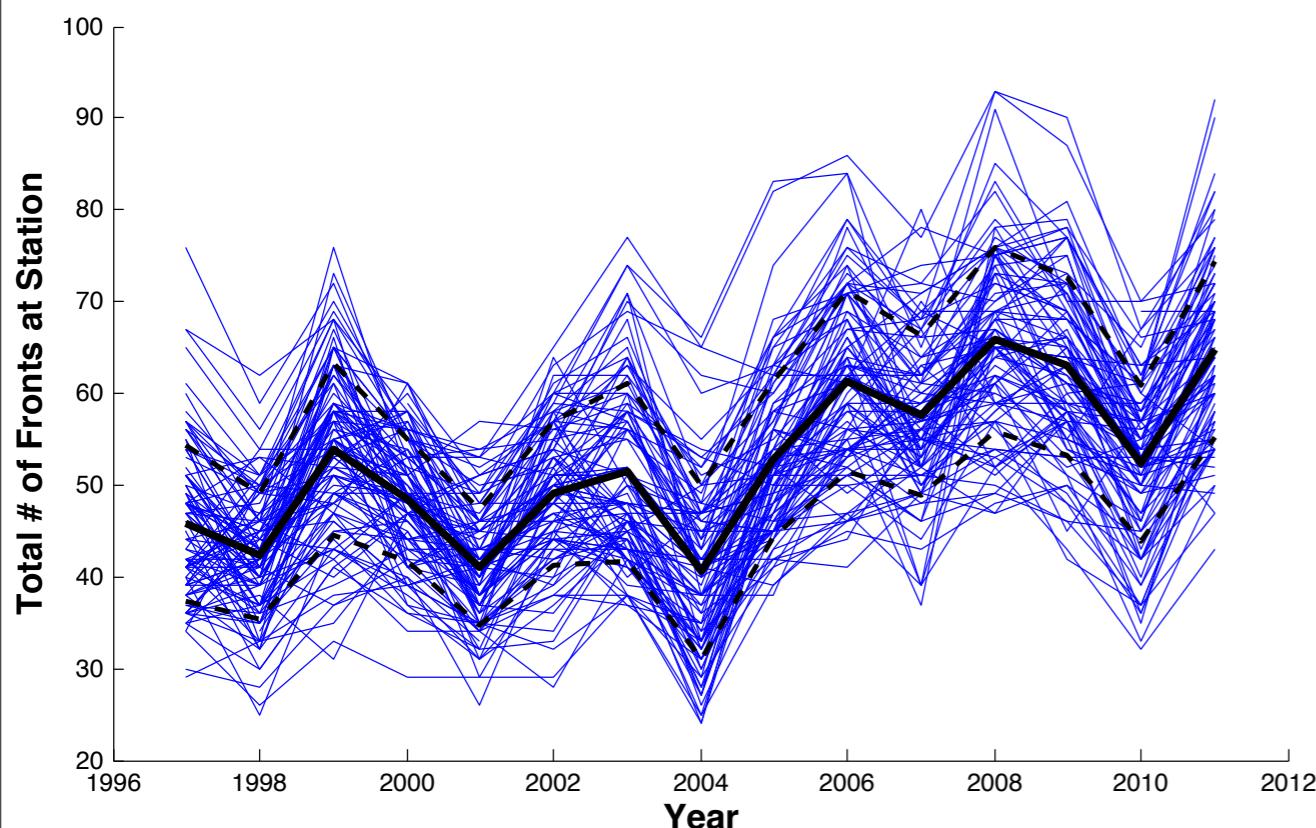
Average Annual Cold Pools (FS 3+) 1997–2011, Triangle Method, Len/Area Adj.



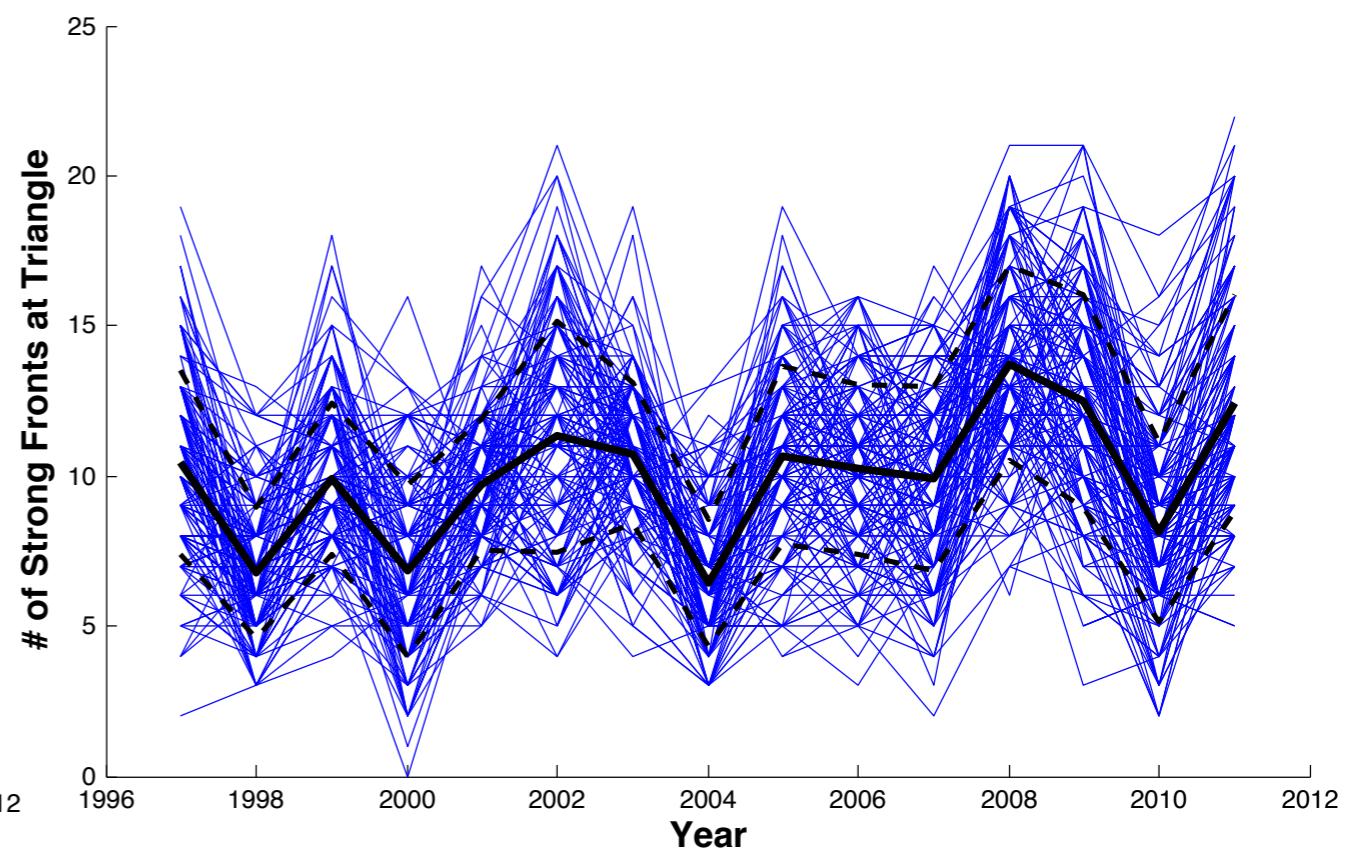
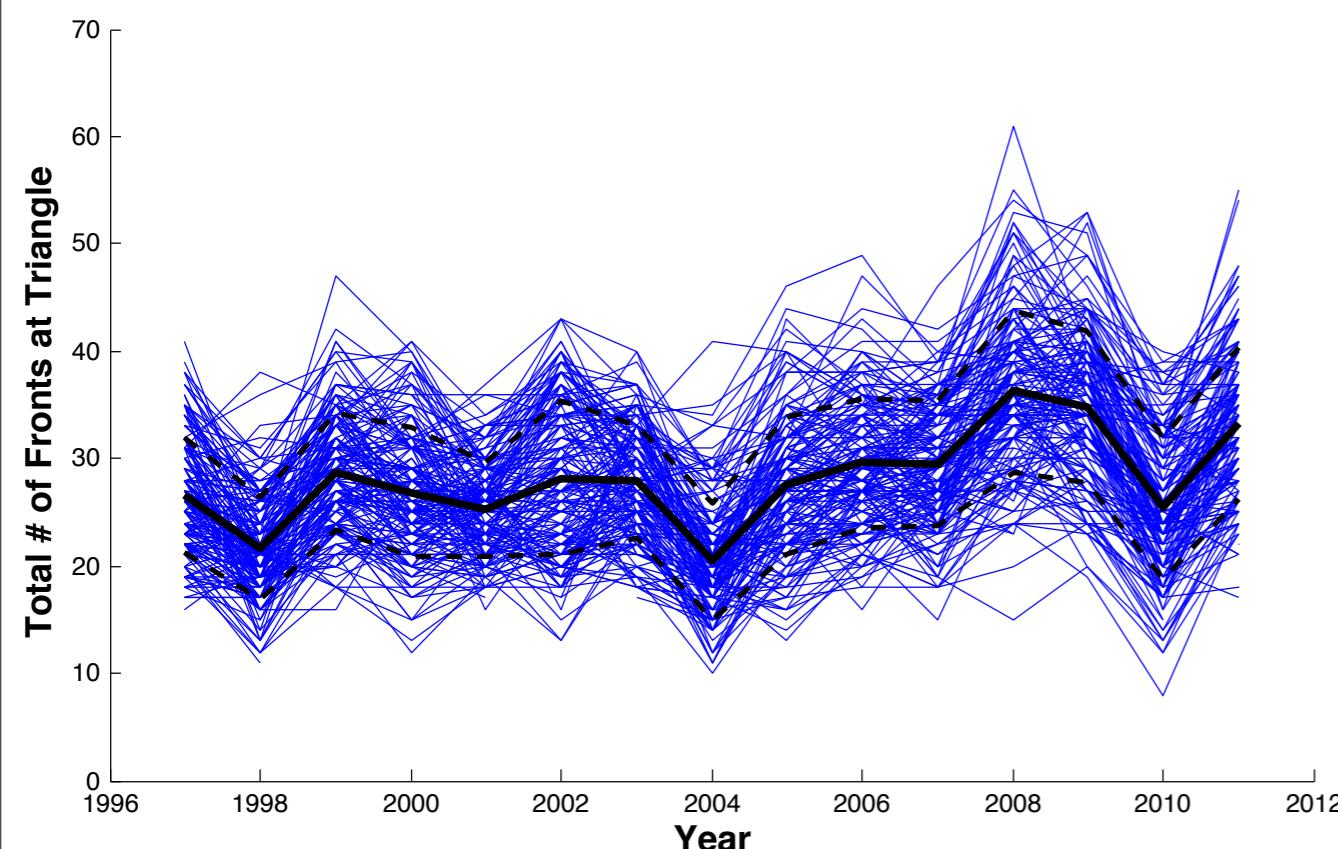
Average Annual Cold Pools (FS 5+) 1997–2011, Triangle Method, Len/Area Adj.



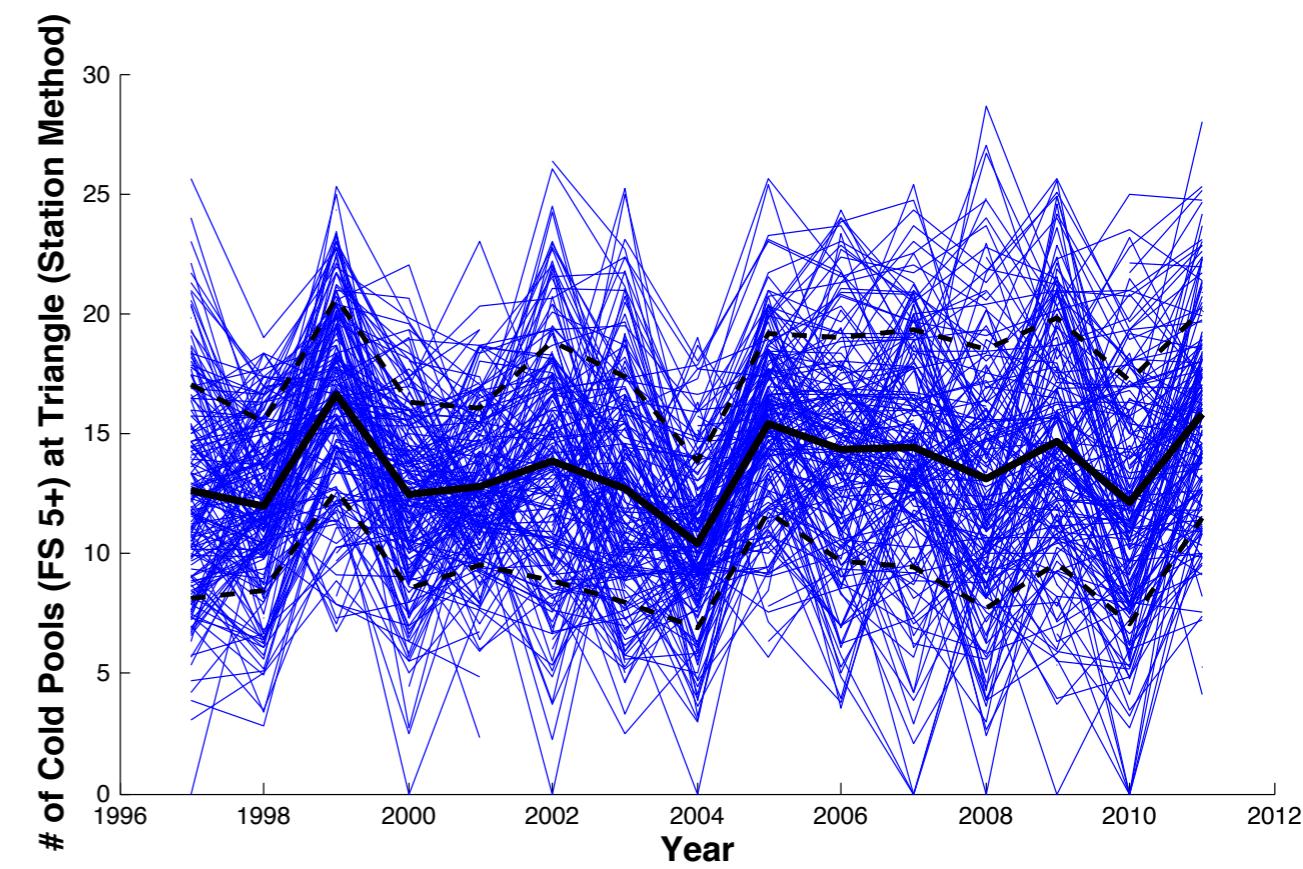
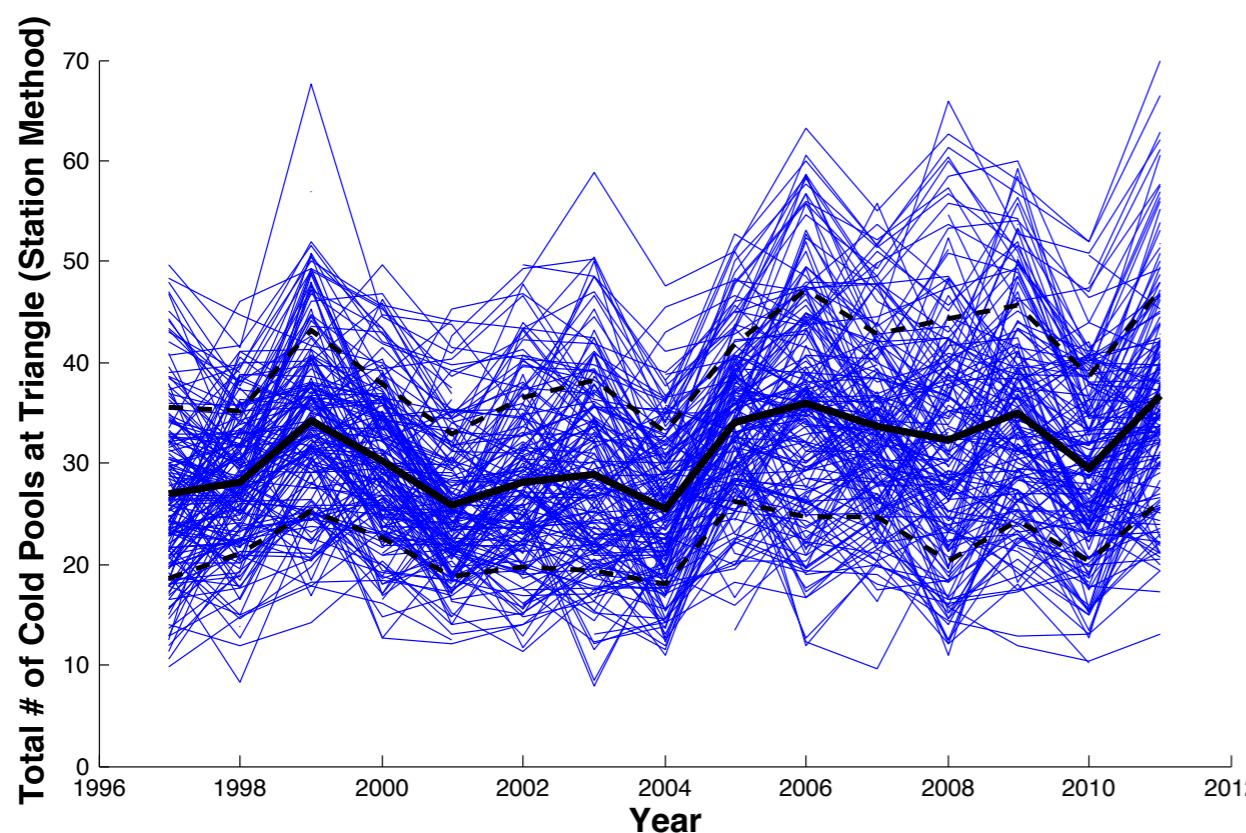
# Fronts (Station Method)



# Fronts (Triangle Method)



# Cold Pools (Station Method)



# Cold Pools (Triangle Method)

