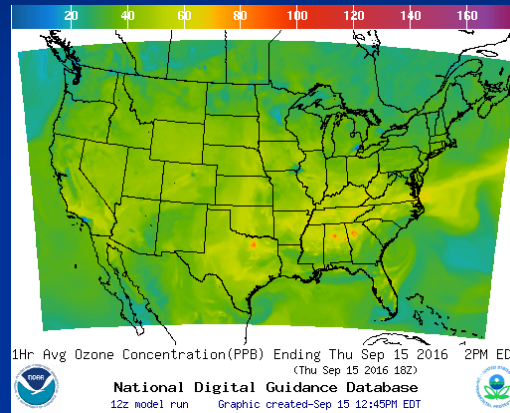


# NOAA Model Evaluation 2016



**Cary D. Gentry**

**Senior Environmental Specialist**

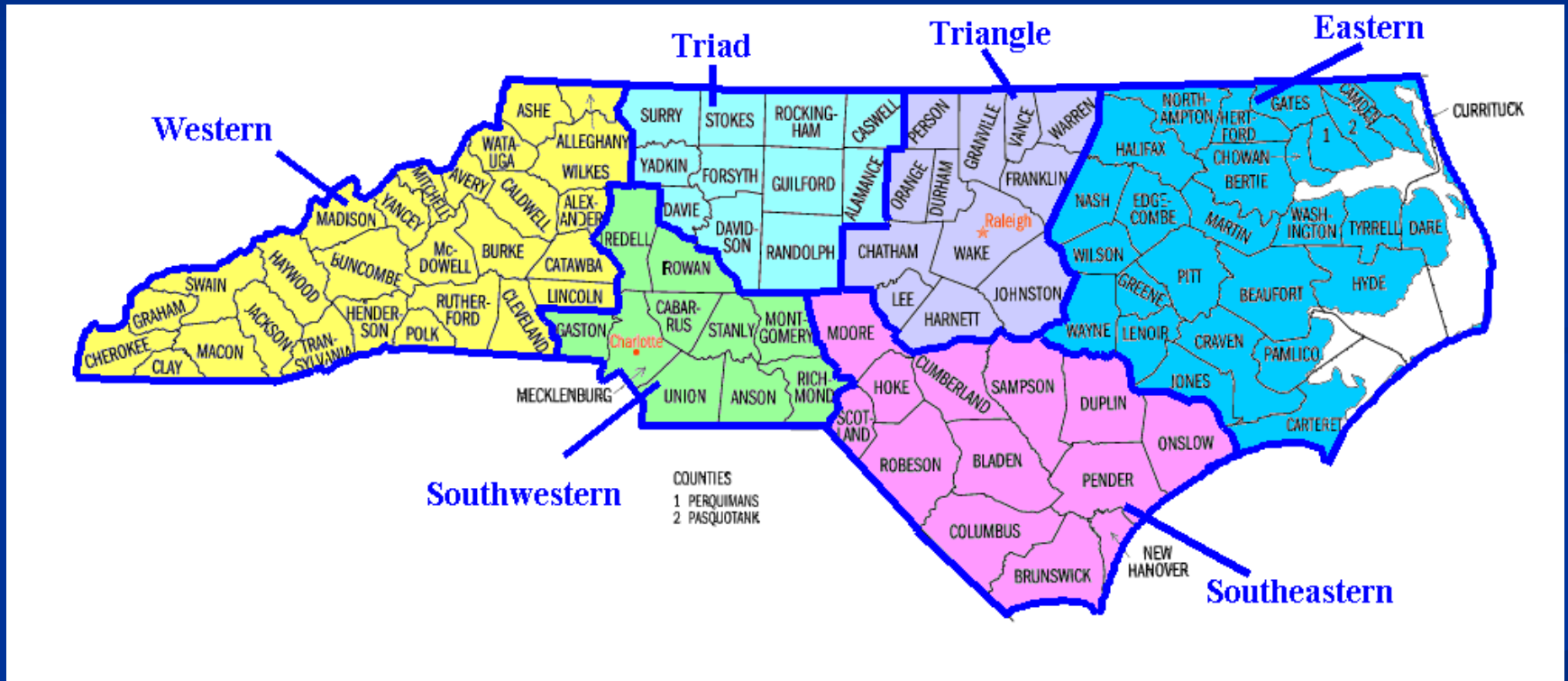
**Forsyth Co. Office of Environmental Assistance and Protection**

**Winston-Salem, NC**





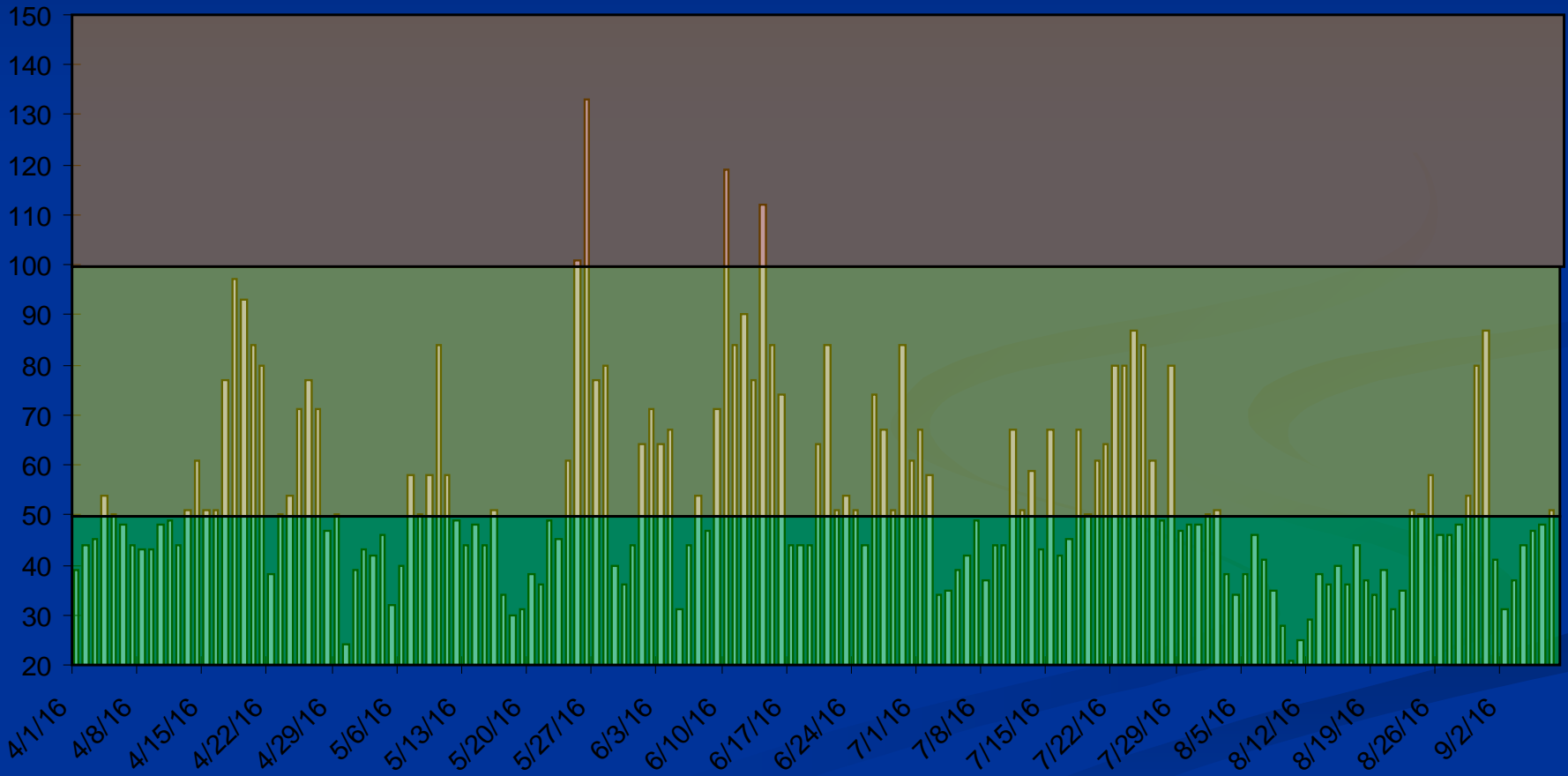
# Triad Region





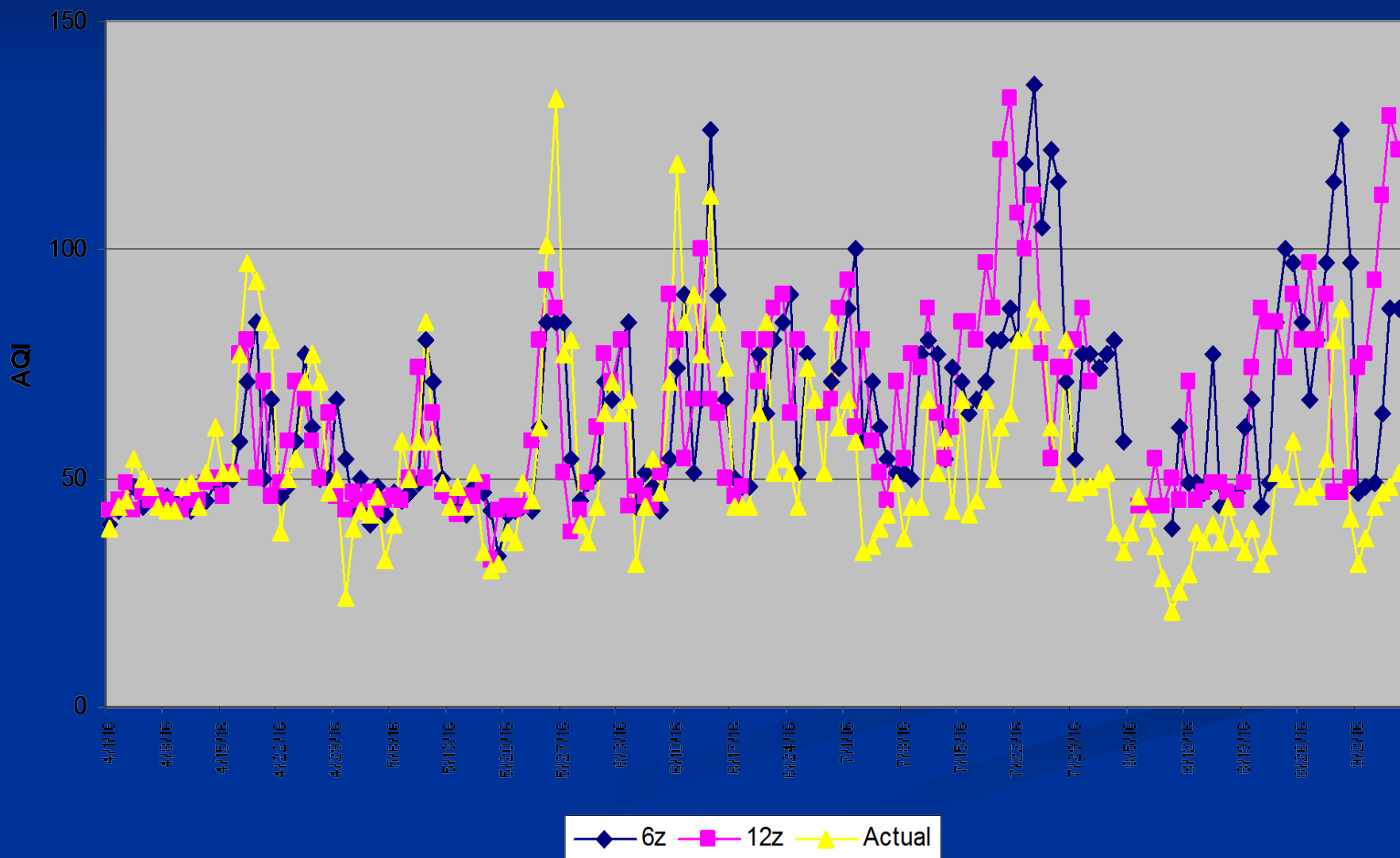
# Ozone Season

Ozone (April - September 7th)





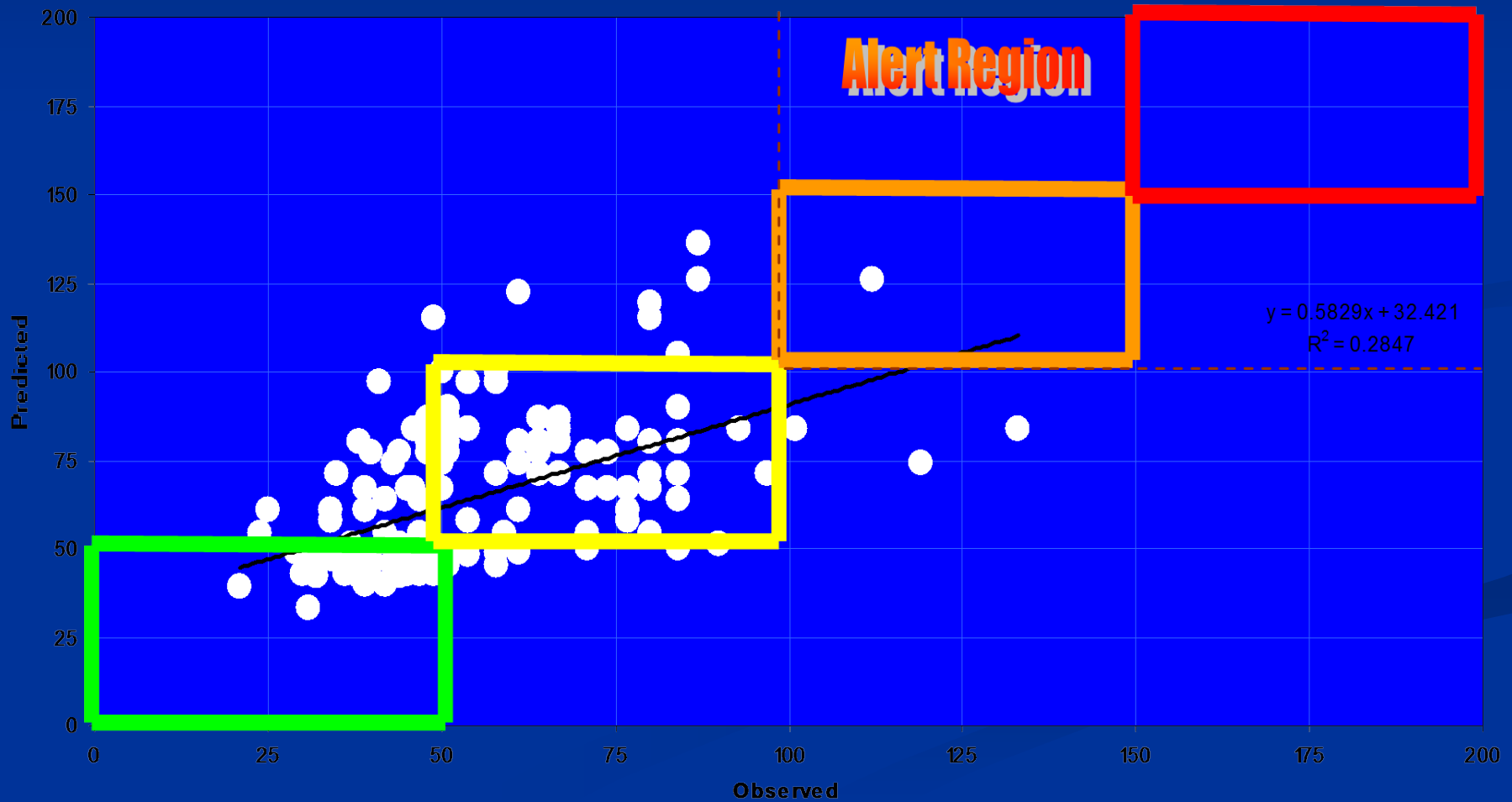
# NOAA(6z, 12z) vs Actual





# NOAA 6z

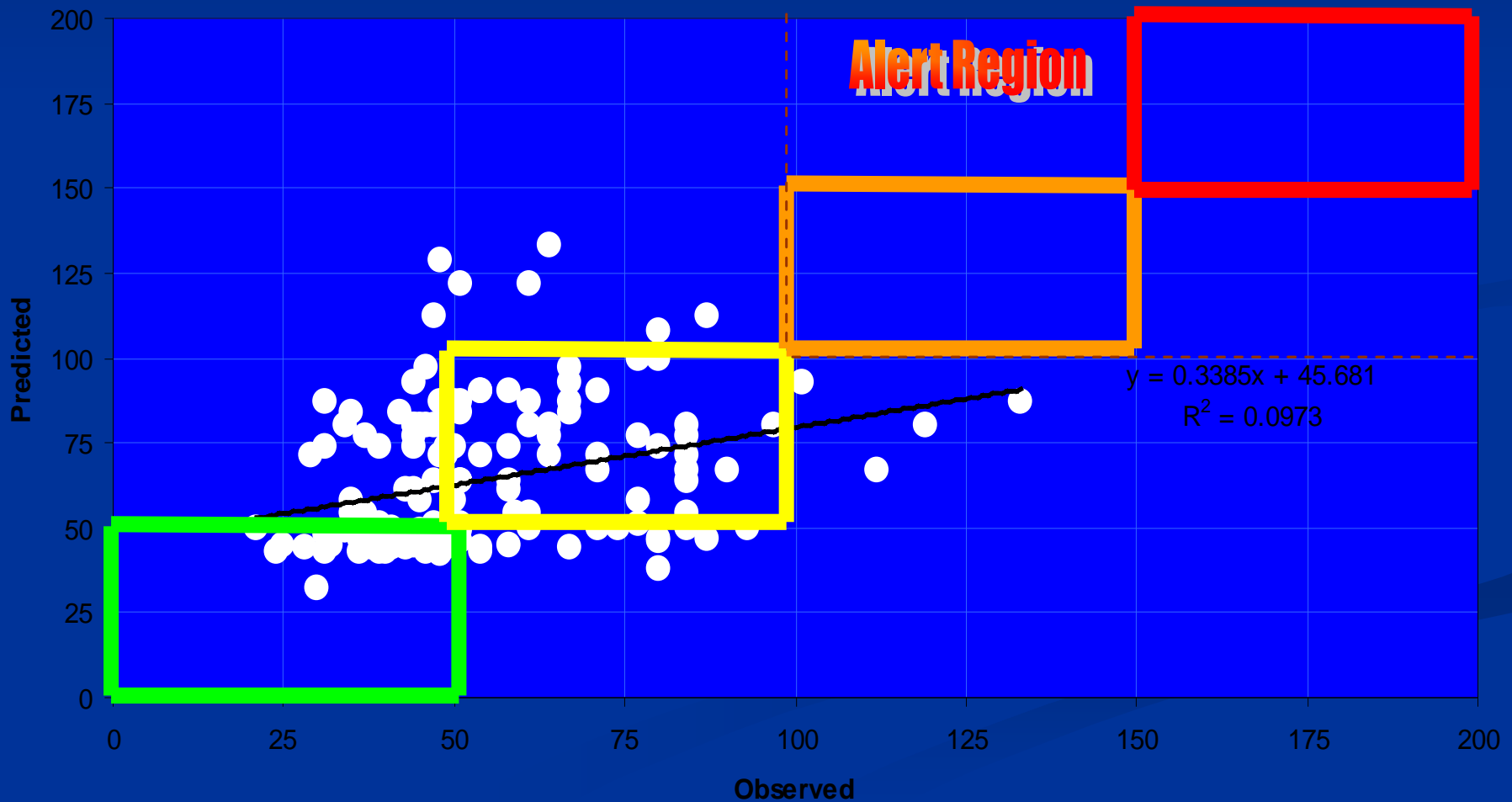
6z NOAA vs. Observed





# NOAA 12z

12z NOAA vs. Observed





# Statistics

<b><u>Numeric Forecasts</u></b>	<b>Fcst</b>	<b>6z</b>	<b>12z</b>	<b>Per</b>
<b>Accuracy</b>	9.8	17.5	20.7	11.6
<b>Bias</b>	1.2	9.3	9.5	0.9
<b>Skill Score(vs Persistence)</b>	16%	-51%	-79%	
<b>Correlation</b>	<b>0.75</b>	<b>0.54</b>	<b>0.36</b>	<b>0.63</b>



# Statistics

<u>Category (color) Forecasts</u>	<u>Fcst</u>	<u>6z</u>	<u>12z</u>	<u>Per</u>
Accuracy(all colors)	76%	65%	60%	67%
Alert vs. Non-Alert(Apr-Sept)	96%	93%	93%	96%
Bias(Apr-Sept)	1.75	2.00	1.75	1.00
False Alarm Rate(Apr-Sept)	71%	88%	100%	75%
Critical Success Index(Apr-Sept)	22%	9%	0%	1%
Probability of Detection(Apr-Sept)	50%	25%	0%	25%





# Contact Info

Cary D. Gentry

[gentrycd@forsyth.cc](mailto:gentrycd@forsyth.cc)

336-703-2453