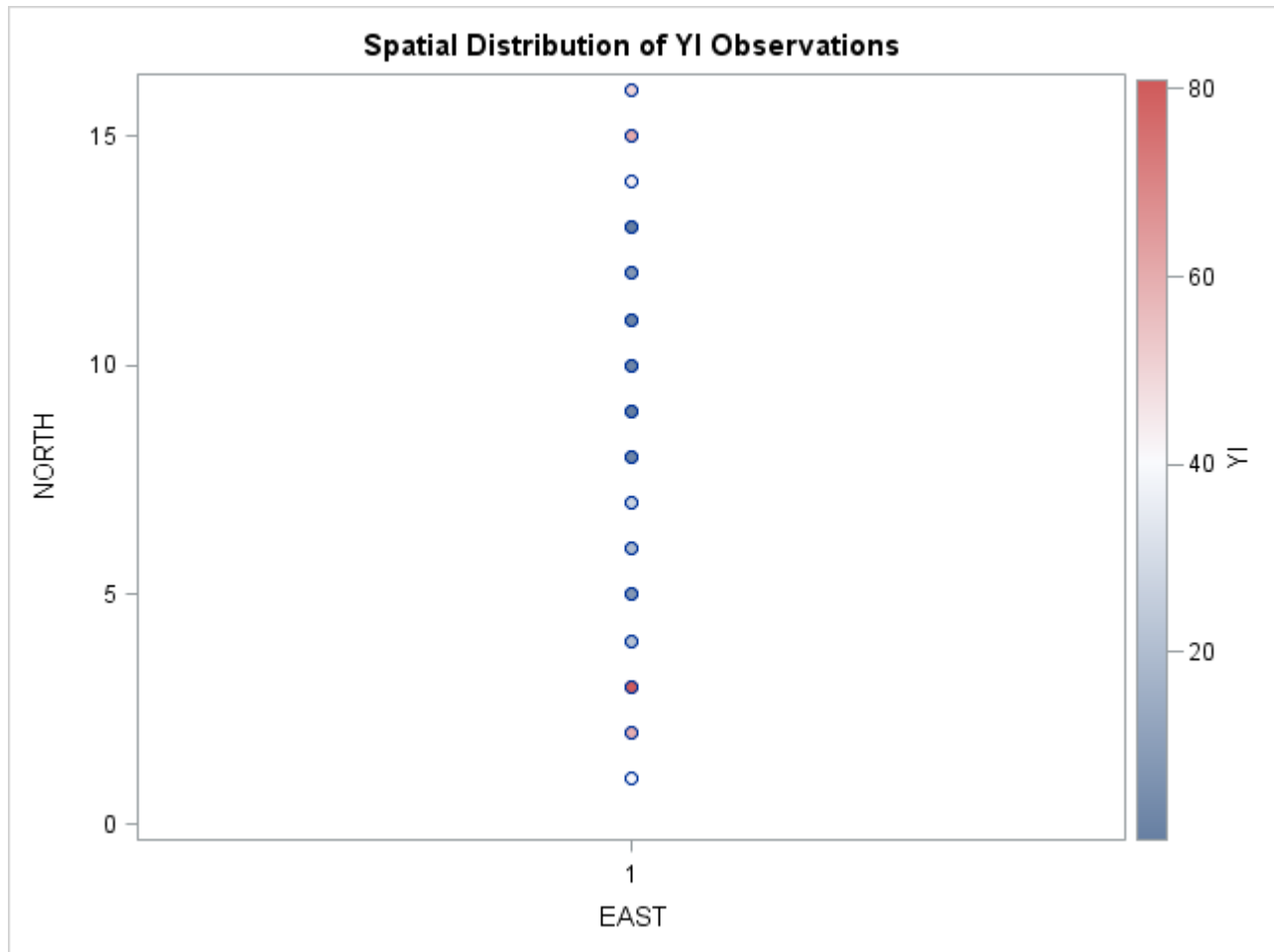


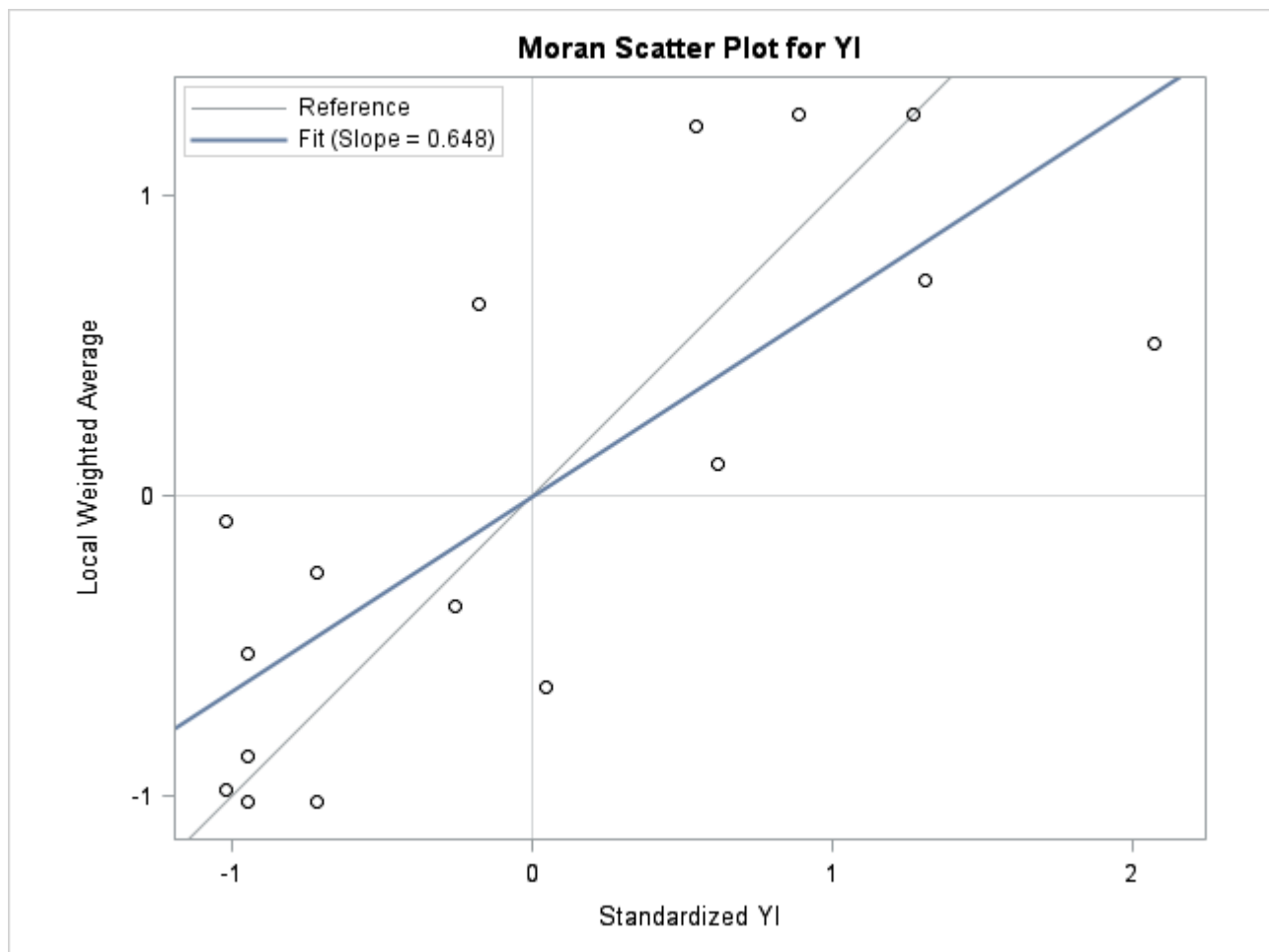
## The SAS System

### The VARIOGRAM Procedure Dependent Variable: YI

Number of Observations Read	16
Number of Observations Used	16



Autocorrelation Statistics						
Assumption	Coefficient	Observed	Expected	Std Dev	Z	Pr >  Z
Randomization	Moran's I	0.625	-0.0667	0.246	2.81	0.0050
Randomization	Geary's c	0.378	1.0000	0.237	-2.63	0.0086



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## The SAS System

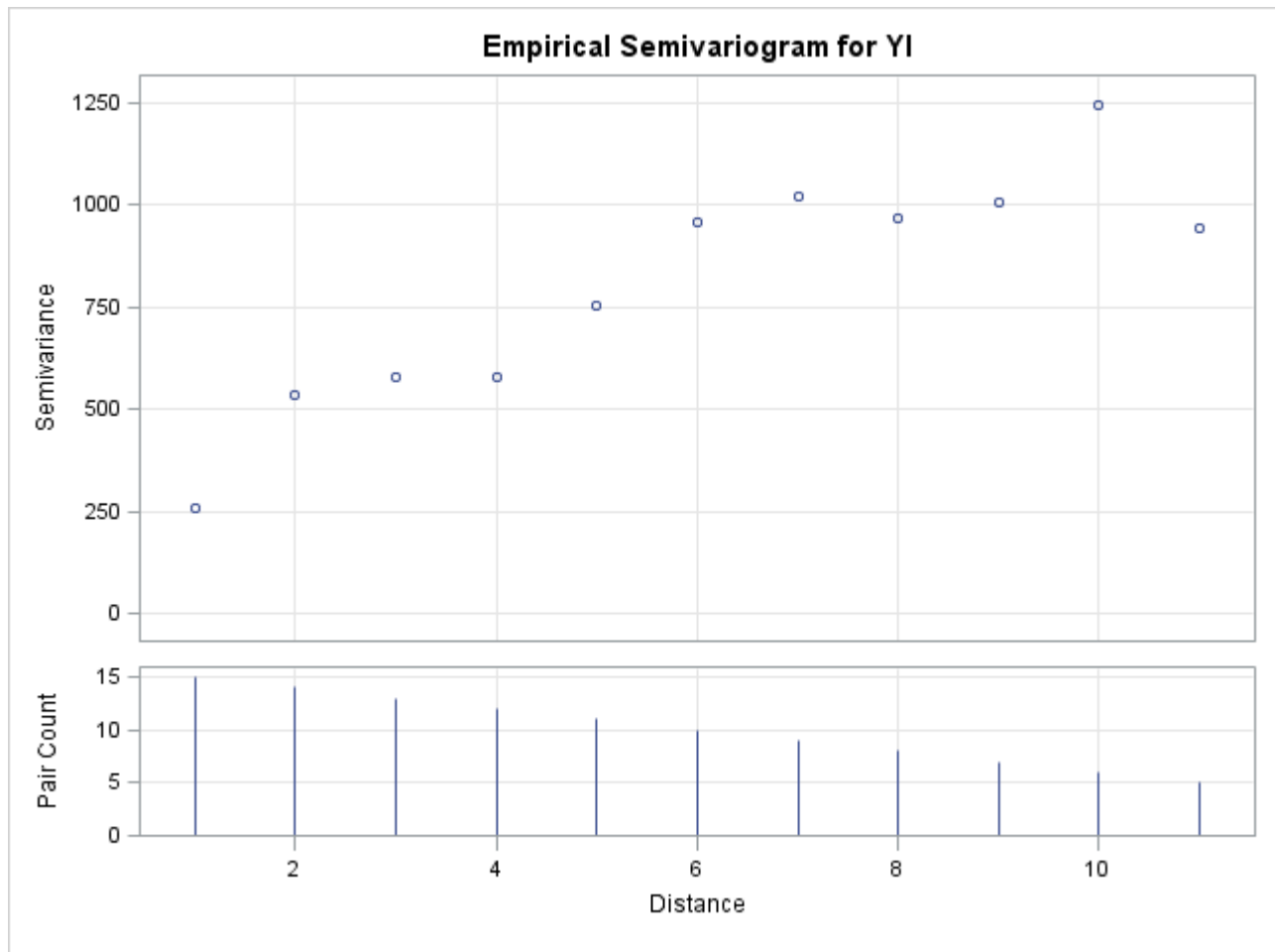
### The VARIOGRAM Procedure Dependent Variable: YI

Empirical Semivariogram			
Lag Class	Pair Count	Average Distance	Semivariance
0	0	.	.
1	15	1	258.833
2	14	2	533.000
3	13	3	576.615
4	12	4	580.167
5	11	5	754.000
6	10	6	958.200
7	9	7	1020
8	8	8	966.750
9	7	9	1006
10	6	10	1245
11	5	11	941.800

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## The SAS System

### The VARIOGRAM Procedure Dependent Variable: YI



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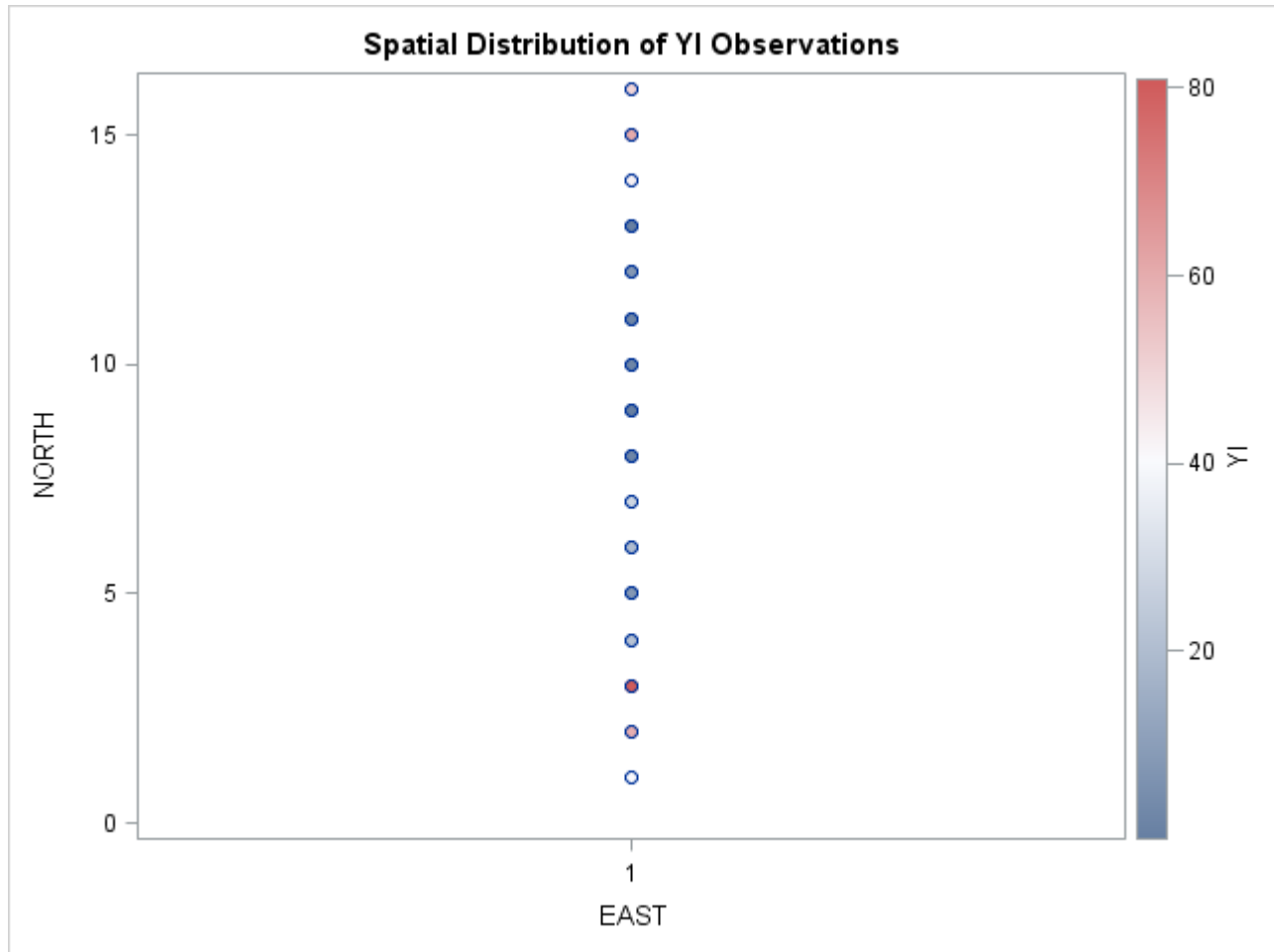
### The SAS System

Obs	VARNAME	LAG	COUNT	DISTANCE	AVERAGE	VARIQG	STDERR	COVAR
1	YI	-1	16	.	26.7500	.	.	684.733
2	YI	0	0	.	.	.	.	.
3	YI	1	15	1	25.5000	258.83	94.513	401.113
4	YI	2	14	2	23.0000	533.00	201.455	92.705
5	YI	3	13	3	20.0000	576.62	226.167	-26.130
6	YI	4	12	4	20.7500	580.17	236.852	-14.562
7	YI	5	11	5	21.9091	754.00	321.507	-168.937
8	YI	6	10	6	23.0000	958.20	428.520	-347.538
9	YI	7	9	7	23.8889	1020.44	481.042	-376.049
10	YI	8	8	8	26.7500	966.75	483.375	-324.813
11	YI	9	7	9	30.4286	1006.29	537.882	-367.509
12	YI	10	6	10	33.0000	1244.67	718.609	-550.604
13	YI	11	5	11	37.4000	941.80	595.647	-174.738

## The SAS System

### The VARIOGRAM Procedure Dependent Variable: YI

Number of Observations Read	16
Number of Observations Used	16



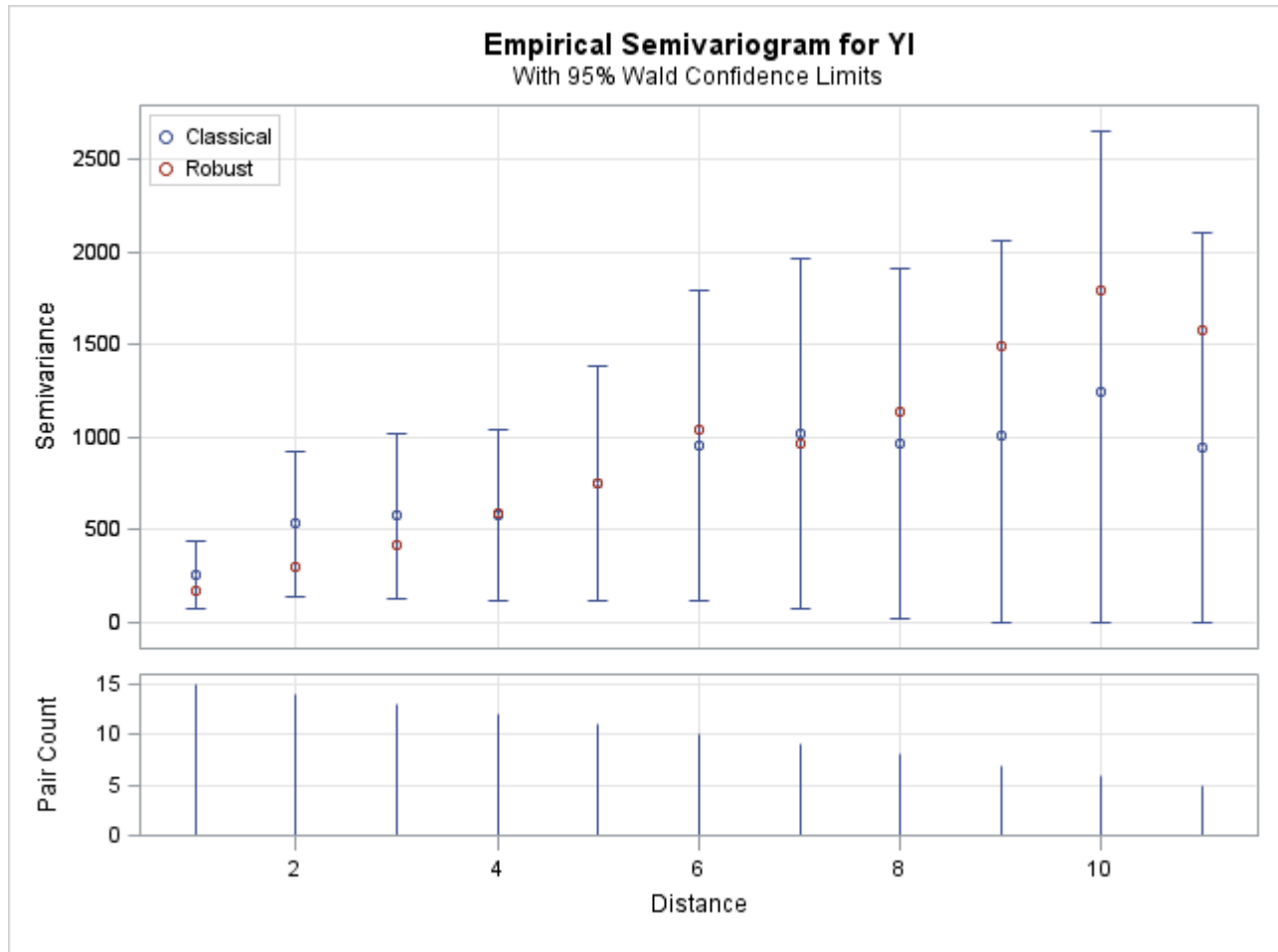
## The SAS System

### The VARIOGRAM Procedure Dependent Variable: YI

Empirical Semivariogram							
Lag Class	Pair Count	Average Distance	Semivariance				
			Robust	Classical	Standard Error	95% Confidence Limits	
0	0	.	.	.	.	.	.
1	15	1	171.145	258.833	94.513	73.592	444.075
2	14	2	301.334	533.000	201.455	138.155	927.845
3	13	3	424.129	576.615	226.167	133.336	1020
4	12	4	586.751	580.167	236.852	115.945	1044
5	11	5	747.063	754.000	321.507	123.858	1384
6	10	6	1045	958.200	428.520	118.316	1798
7	9	7	964.321	1020	481.042	77.619	1963
8	8	8	1143	966.750	483.375	19.352	1914
9	7	9	1494	1006	537.882	0	2061
10	6	10	1794	1245	718.609	0	2653
11	5	11	1582	941.800	595.647	0	2109

## The SAS System

### The VARIOGRAM Procedure Dependent Variable: YI





## The SAS System

The VARIOGRAM Procedure  
Dependent Variable: YI  
Angle: Omnidirectional

### Semivariogram Model Fitting

<b>Model</b>	Selection from 3 form combinations
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### Fit Summary

Class	Model	Weighted SSE	AIC	Notes
1	Exp	0.67795	-24.65241	Questionable fit
2	Sph	0.81399	-22.64075	Questionable fit
3	Gau	1.14242	-18.91221	

### Semivariogram Model Fitting

<b>Name</b>	Exponential
<b>Label</b>	Exp

### Model Information

Parameter	Initial Value
<b>Nugget</b>	0
<b>Scale</b>	1064.3
<b>Range</b>	5.5000

### Optimization Information

<b>Optimization Technique</b>	Dual Quasi-Newton
<b>Parameters in Optimization</b>	3
<b>Lower Boundaries</b>	3
<b>Upper Boundaries</b>	0
<b>Starting Values From</b>	PROC

### Parameter Estimates

Parameter	Estimate	Approx Std Error	DF	t Value	Approx Pr >  t
<b>Nugget</b>	36.7268	221.61	8	0.17	0.8725
<b>Scale</b>	1148.87	351.91	8	3.26	0.0114

<b>Range</b>	4.3620	4.4071	8	0.99	0.3513
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## The SAS System

### The VARIOGRAM Procedure Dependent Variable: YI

