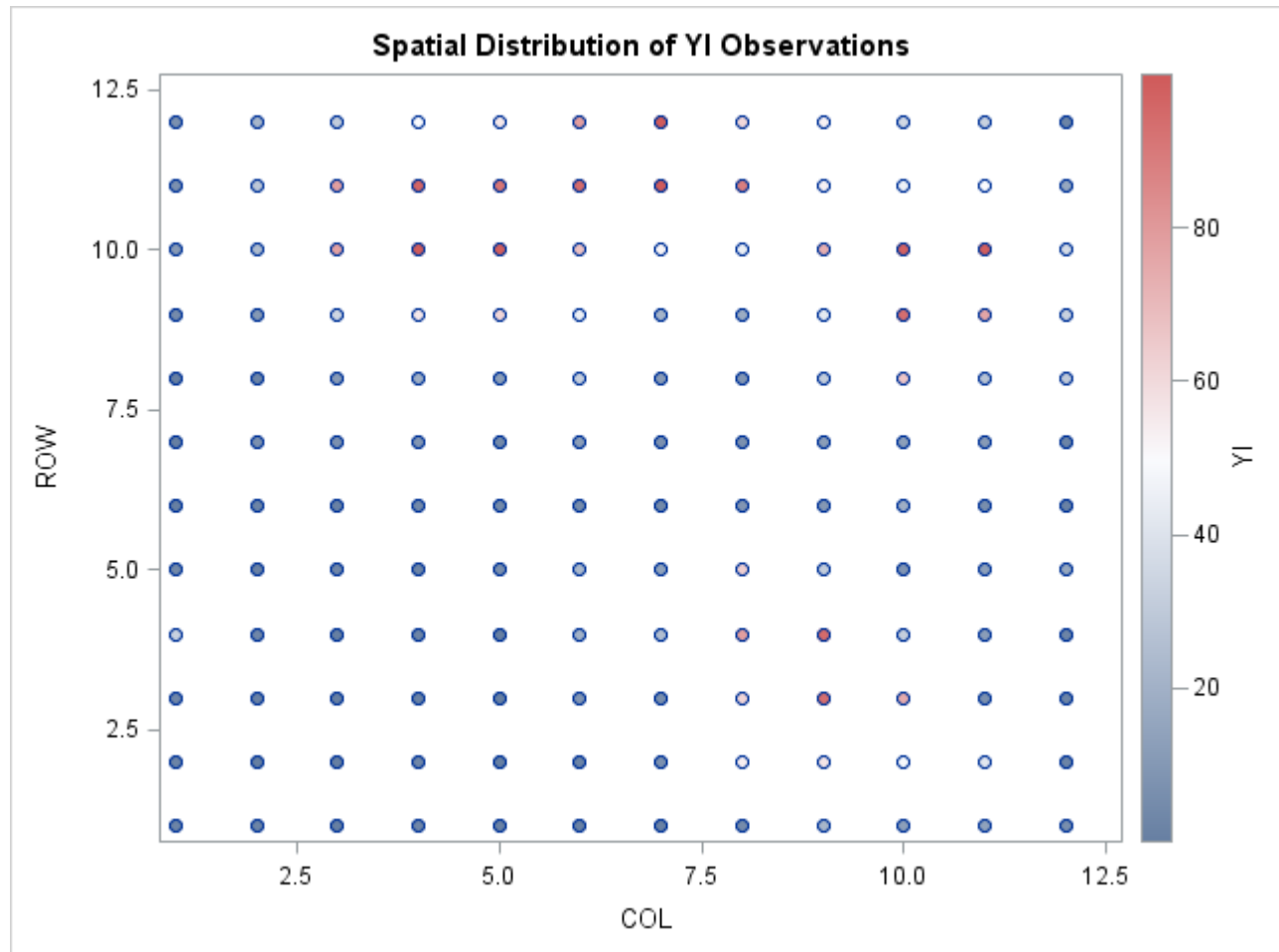


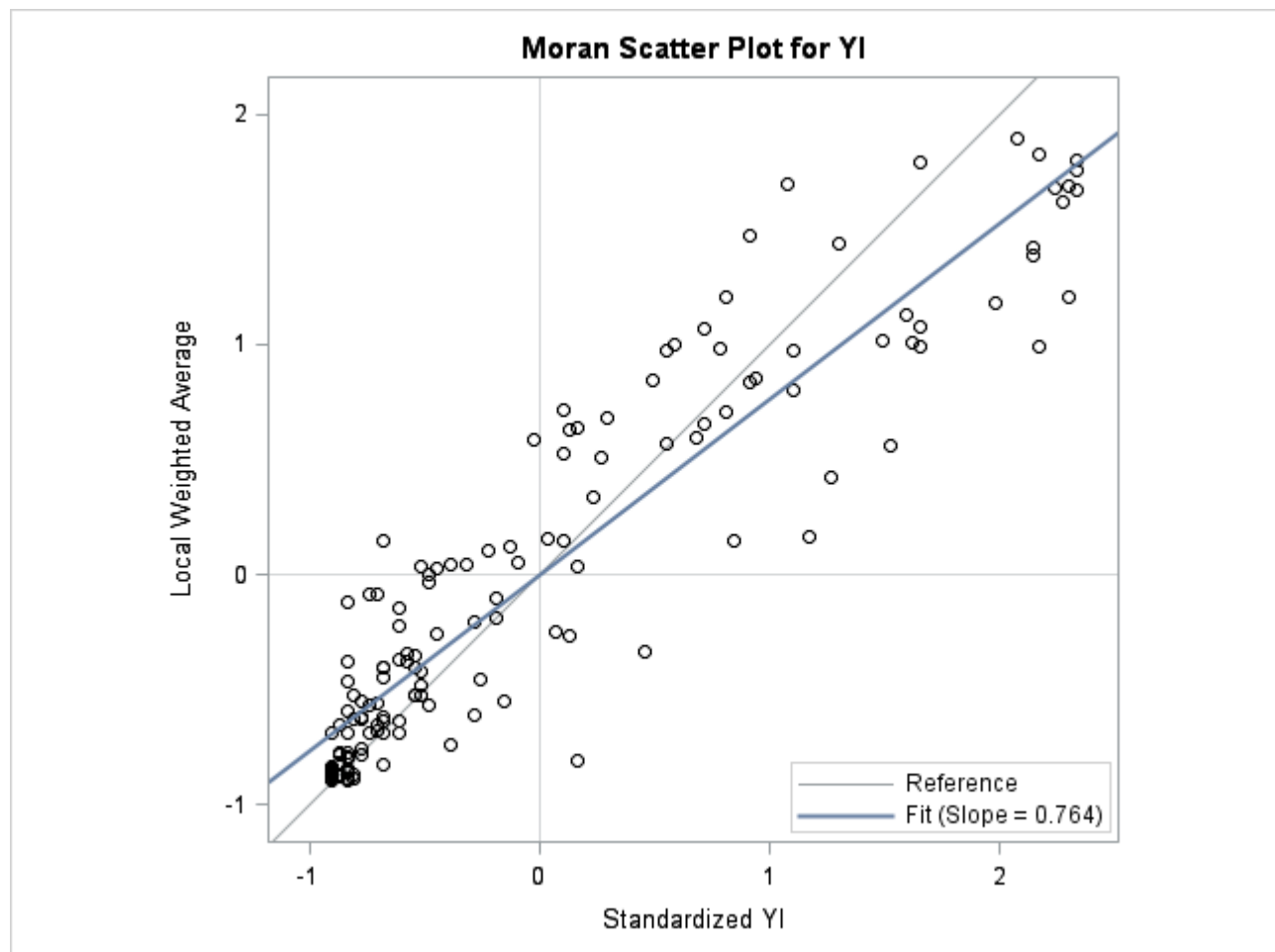
The SAS System

The VARIOGRAM Procedure Dependent Variable: YI

Number of Observations Read	144
Number of Observations Used	144



Autocorrelation Statistics						
Assumption	Coefficient	Observed	Expected	Std Dev	Z	Pr > |Z|
Randomization	Moran's I	0.782	-0.00699	0.0607	13	<.0001
Randomization	Geary's c	0.247	1.00000	0.0626	-12	<.0001



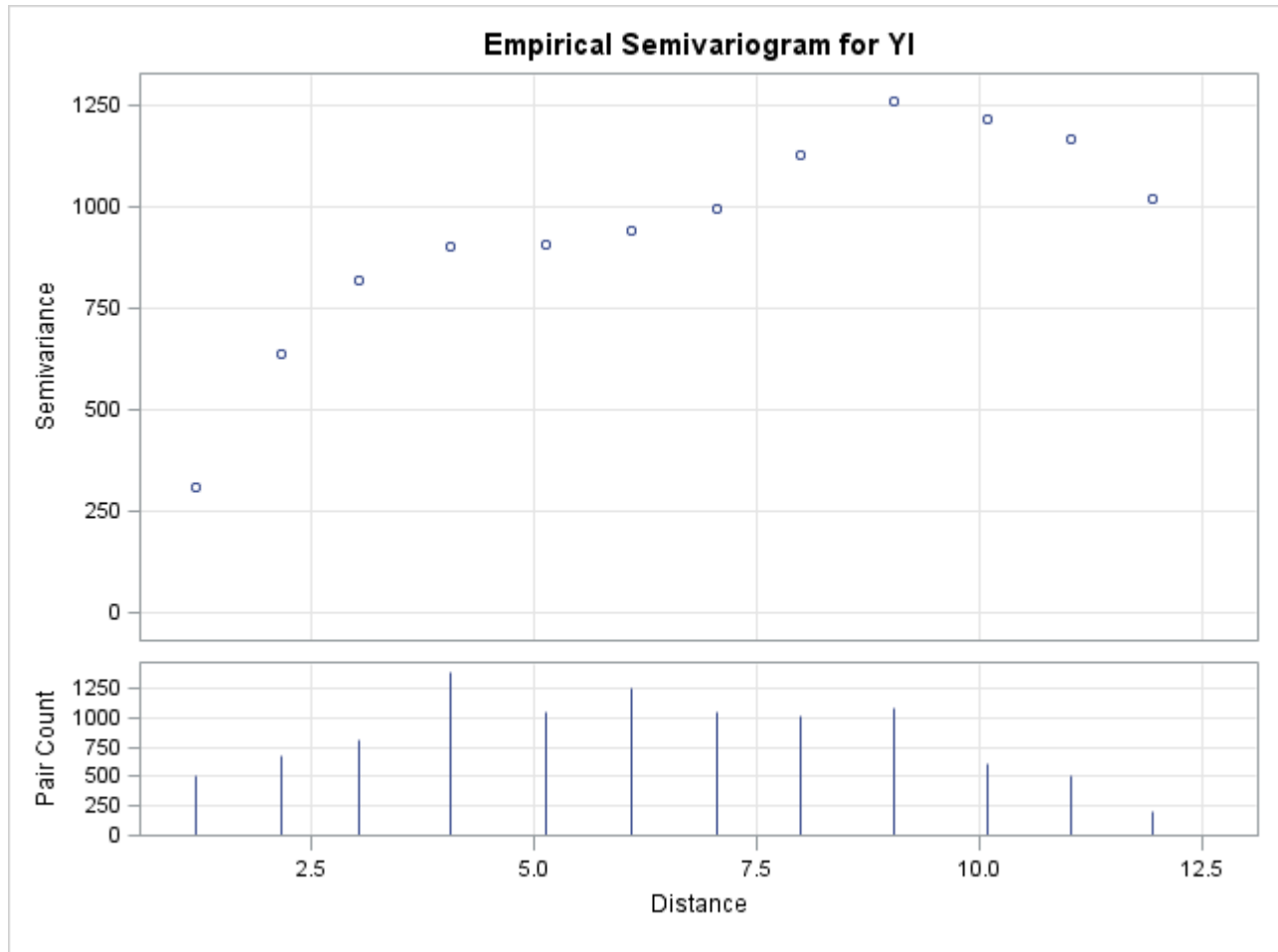
The SAS System

The VARIOGRAM Procedure Dependent Variable: YI

Empirical Semivariogram			
Lag Class	Pair Count	Average Distance	Semivariance
0	0	.	.
1	506	1.20	311.715
2	680	2.15	636.207
3	812	3.04	818.704
4	1386	4.07	901.322
5	1044	5.13	910.277
6	1252	6.08	942.322
7	1046	7.05	998.229
8	1012	7.99	1131
9	1076	9.03	1262
10	614	10.09	1220
11	508	11.02	1167
12	196	11.93	1020

The SAS System

The VARIOGRAM Procedure Dependent Variable: YI



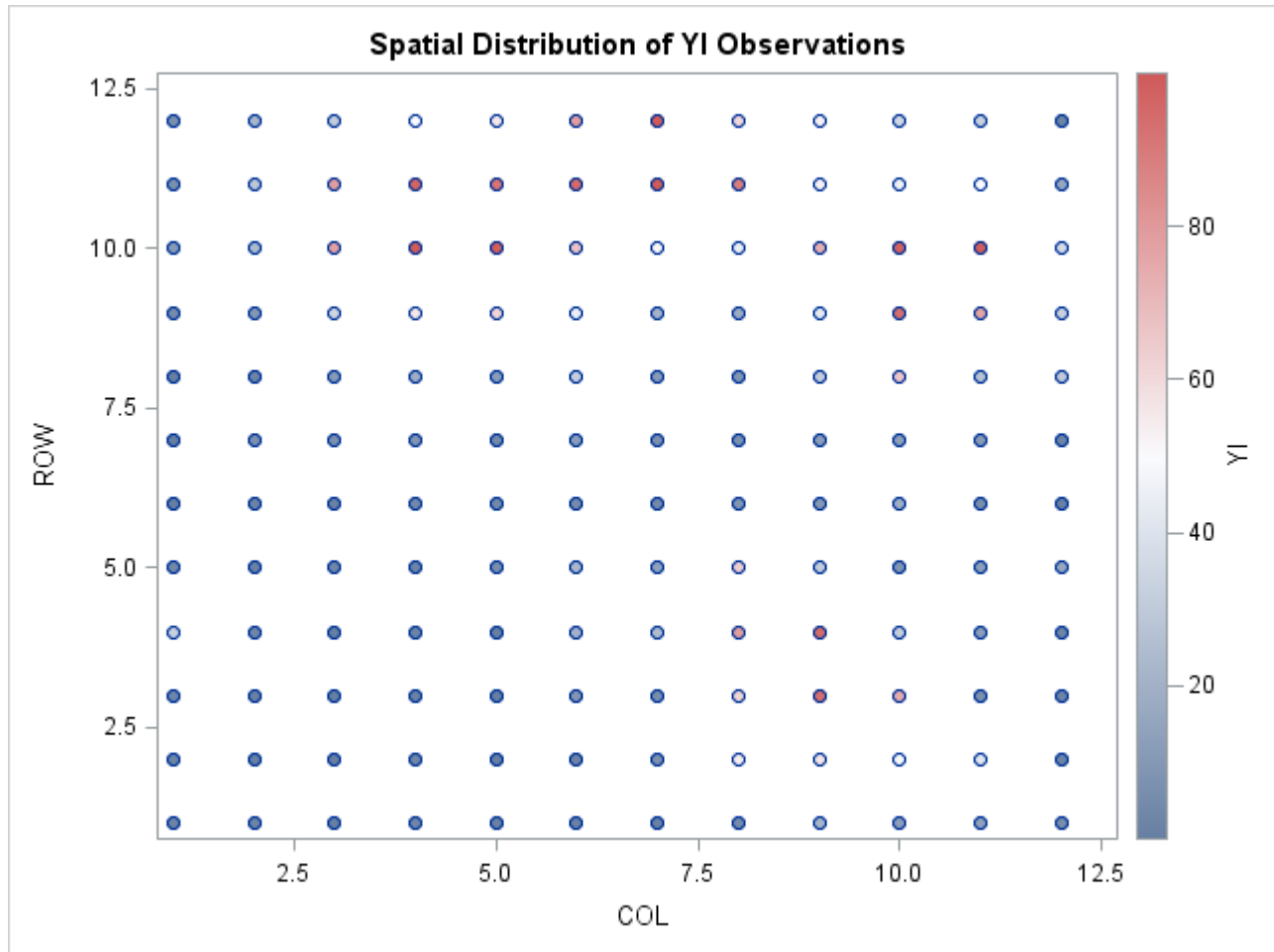
The SAS System

Obs	VARNAME	LAG	COUNT	DISTANCE	AVERAGE	VARIQG	STDERR	COVAR
1	YI	-1	144	.	27.8542	.	.	953.902
2	YI	0	0	.	.	.	.	.
3	YI	1	506	1.1981	29.2846	311.72	19.597	680.177
4	YI	2	680	2.1527	29.2309	636.21	34.503	351.969
5	YI	3	812	3.0369	28.3670	818.70	40.632	129.481
6	YI	4	1386	4.0662	27.2374	901.32	34.238	8.463
7	YI	5	1044	5.1325	26.7217	910.28	39.842	-0.959
8	YI	6	1252	6.0827	27.0631	942.32	37.663	-20.329
9	YI	7	1046	7.0537	28.7586	998.23	43.650	-28.912
10	YI	8	1012	7.9943	29.7184	1131.21	50.288	-123.728
11	YI	9	1076	9.0304	29.7607	1261.68	54.395	-228.126
12	YI	10	614	10.0932	27.4275	1219.61	69.607	-250.716
13	YI	11	508	11.0205	25.6250	1166.55	73.196	-270.943
14	YI	12	196	11.9332	23.3214	1019.52	102.987	-214.251

The SAS System

The VARIOGRAM Procedure Dependent Variable: YI

Number of Observations Read	144
Number of Observations Used	144



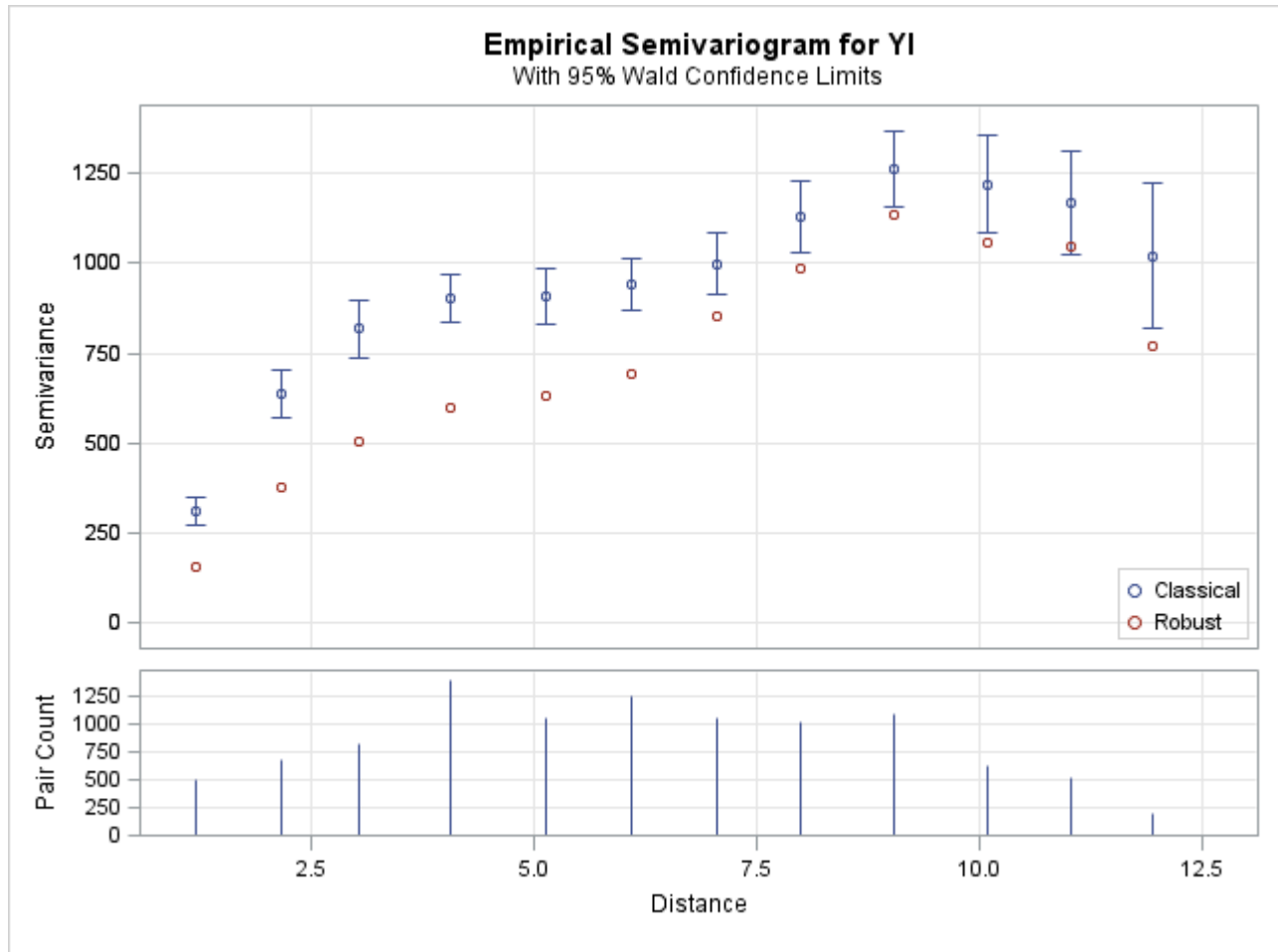
The SAS System

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	506	1.20	157.267	311.715	19.597	273.305	350.126
2	680	2.15	378.187	636.207	34.503	568.582	703.832
3	812	3.04	501.668	818.704	40.632	739.068	898.341
4	1386	4.07	596.116	901.322	34.238	834.216	968.428
5	1044	5.13	633.503	910.277	39.842	832.189	988.366
6	1252	6.08	692.184	942.322	37.663	868.504	1016
7	1046	7.05	851.036	998.229	43.650	912.678	1084
8	1012	7.99	988.182	1131	50.288	1033	1230
9	1076	9.03	1134	1262	54.395	1155	1368
10	614	10.09	1056	1220	69.607	1083	1356
11	508	11.02	1045	1167	73.196	1023	1310
12	196	11.93	772.436	1020	102.987	817.669	1221

The SAS System

The VARIOGRAM Procedure Dependent Variable: YI



The SAS System

The VARIOGRAM Procedure
Dependent Variable: YI
Angle: Omnidirectional

Semivariogram Model Fitting

Model	Selection from 3 form combinations
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Fit Summary

Class	Model	Weighted SSE	AIC
1	Exp	32.84707	18.08347
2	Sph	54.48705	24.15668
3	Gau	258.08358	42.82052

Semivariogram Model Fitting

Name	Exponential
Label	Exp

Model Information

Parameter	Initial Value
Nugget	0
Scale	1135.2
Range	5.9666

Optimization Information

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

Parameter Estimates

Parameter	Estimate	Approx Std Error	DF	t Value	Approx Pr > t
Nugget	0	0	9	.	.
Scale	1226.08	26.6175	9	46.06	<.0001

Range	3.2646	0.1661	9	19.65	<.0001
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The SAS System

The VARIOGRAM Procedure Dependent Variable: YI

