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module4

Command Search (Alt+Q)

Anthony - Arizona State University

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Search

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Map

TempTrends

ContinousU...



1:48,962,253

92.7495593°W 12.3355750°N

0

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TempTrends

Fields: TempTrends

Field: Selection:

	Shape *	Code	Lat	Lon	Elevation	Name	dT	zscore	dT_fix
1	Point	11084	31.07	-87.05	85	BREWTON	0.35	0.273016	100.35
2	Point	12813	30.55	-87.88	23	FAIRHOPE	0.075	-0.6	100.075
3	Point	13160	32.83	-88.13	125	GAINESVILLE	0.361	0.307937	100.361
4	Point	13511	32.7	-87.58	220	GREENSBORO	0.413	0.473016	100.413
5	Point	13816	31.95	-86.32	594	HIGHLAND	0.113	-0.479365	100.113
6	Point	15749	34.75	-87.62	536	MUSCLE	0.163	-0.320635	100.163
7	Point	17157	34.17	-86.82	800	ST	-0.104	-1.168254	99.896
8	Point	17304	34.68	-86.05	615	SCOTTSBORO	0.174	-0.285714	100.174
9	Point	17366	32.42	-87	147	SELMA	-0.128	-1.244444	99.872

0 of 1,221 selected

Filters

100%

Geoprocessing

High/Low Clustering (Getis-Ord G...

Parameters

Environments

Input Feature Class

TempTrends

Input Field

dT\_fix

Generate Report

Conceptualization of Spatial Relationships

Inverse distance

Standardization

Row

Distance Band or Threshold Distance

1000000

Run

High/Low Clustering (Getis-Ord General G) completed with warnings.

View Details

Open History

Catal...

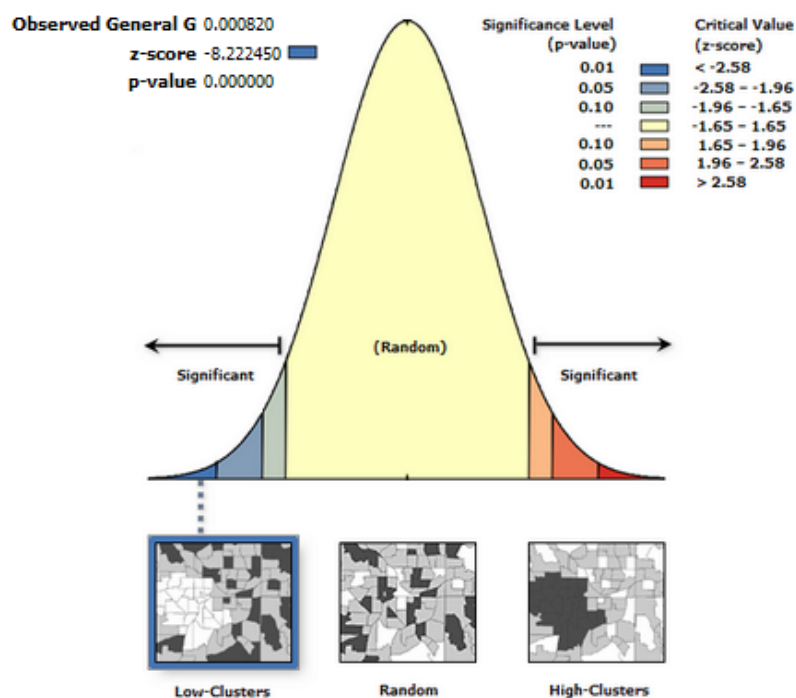
Geop...

Sym...

Label...

Attri...

Char...



Given the z-score of -8.222450069752389, there is a less than 1% likelihood that this low-clustered pattern could be the result of random chance.

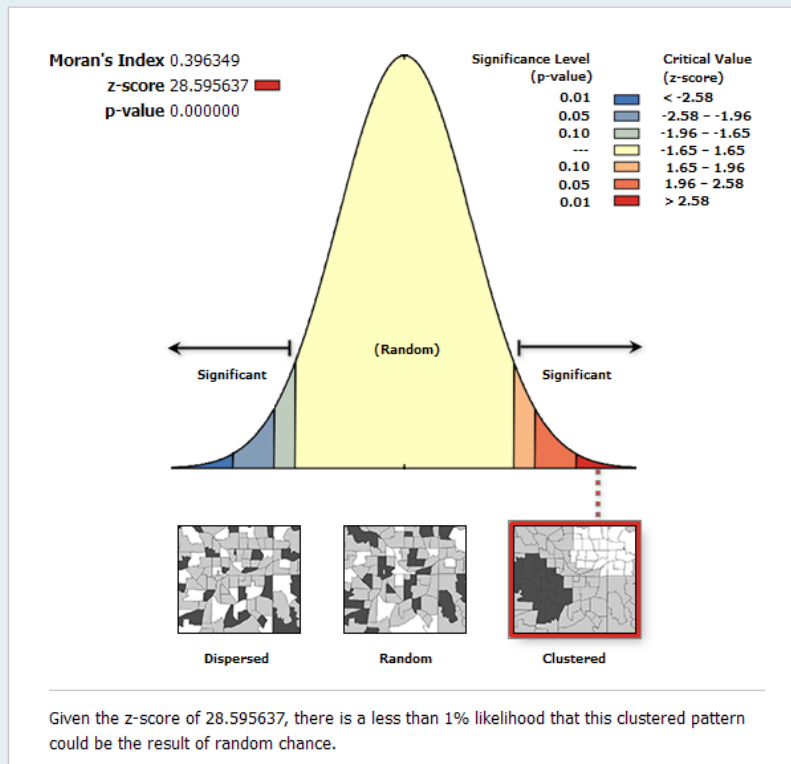
### General G Summary

Observed General G	0.000820
Expected General G	0.000820
Variance	0.000000
z-score	-8.222450
p-value	0.000000

### Dataset Information

Input Feature Class:	TempTrends
Input Field:	DT_FIX
Conceptualization:	INVERSE_DISTANCE
Distance Method:	EUCLIDEAN
Row Standardization:	True
Distance Threshold:	1000000.0000 Meters
Weights Matrix File:	None
Selection Set:	False

## Spatial Autocorrelation Report

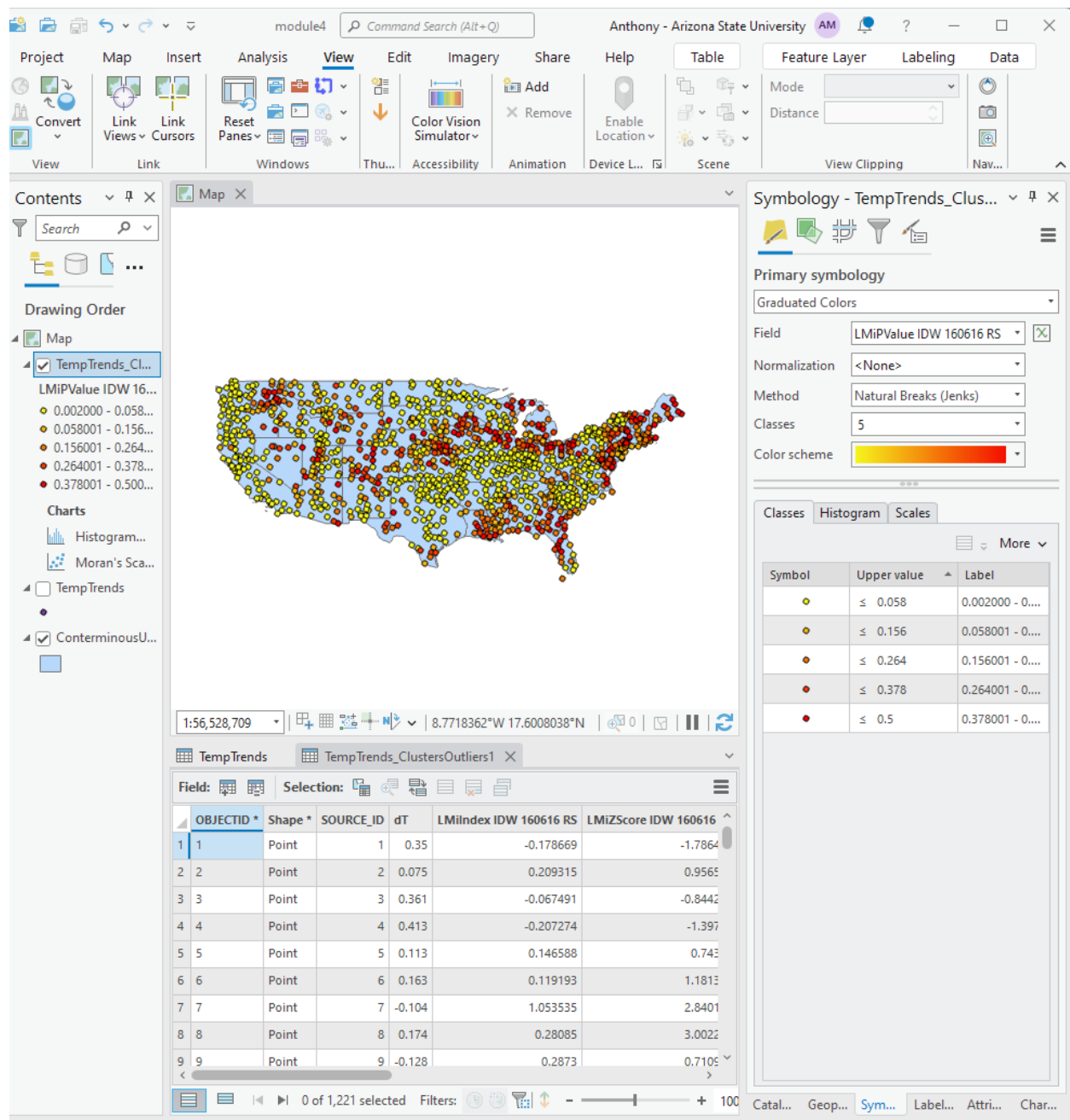


## Global Moran's I Summary

<b>Moran's Index</b>	0.396349
<b>Expected Index</b>	-0.000820
<b>Variance</b>	0.000193
<b>z-score</b>	28.595637
<b>p-value</b>	0.000000

## Dataset Information

<b>Input Feature Class:</b>	TempTrends
<b>Input Field:</b>	DT
<b>Conceptualization:</b>	INVERSE DISTANCE



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TempTrends\_Cl...

LMIPValue IDW 16...

0.002000 - 0.058...

0.058001 - 0.156...

0.156001 - 0.264...

0.264001 - 0.378...

0.378001 - 0.500...

Charts

Histogram...

Moran's Sca...

TempTrends

ConterminousU...

1:56,528,709 5.7007103°W 9.4050097°N

TempTrends TempTrends\_ClustersOutliers1 X

Field: Selection:

OBJECTID *	Shape *	SOURCE_ID	dT	LMiIndex IDW 160616 RS	LMiZScore IDW 160616
1	Point	1	0.35	-0.178669	-1.7864
2	Point	2	0.075	0.209315	0.9565
3	Point	3	0.361	-0.067491	-0.8442
4	Point	4	0.413	-0.207274	-1.397
5	Point	5	0.113	0.146588	0.743
6	Point	6	0.163	0.119193	1.1813
7	Point	7	-0.104	1.053535	2.8401
8	Point	8	0.174	0.28085	3.0022
9	Point	9	-0.128	0.2873	0.7105

0 of 1,221 selected Filters: 100

Geoprocessing

Feature Class To Shapefile

Parameters Environments

Input Features

TempTrends

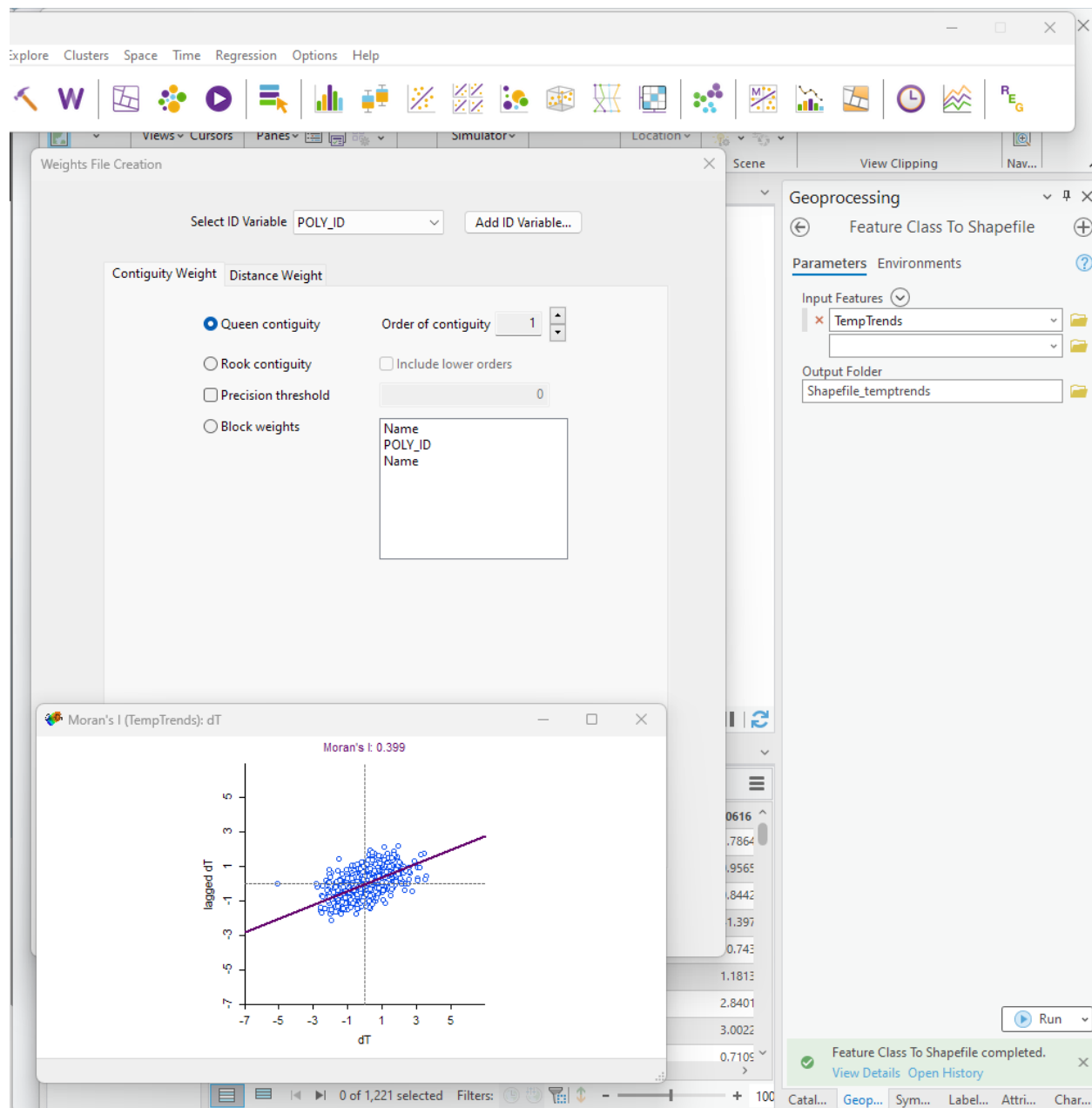
Output Folder

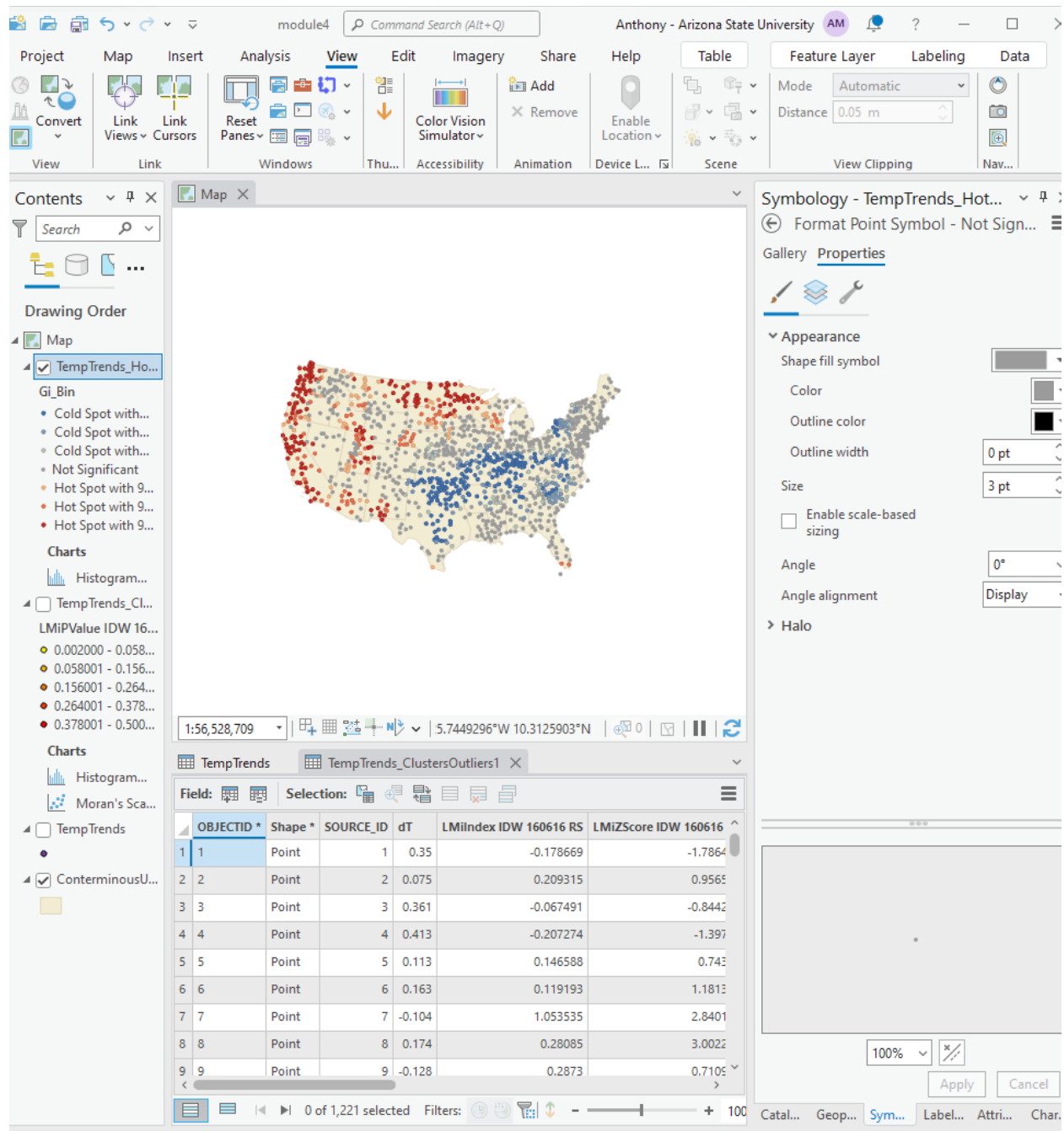
Shapefile\_temptrends

Run

Feature Class To Shapefile completed. View Details Open History

Catal... Geop... Sym... Label... Attri... Char...





module4

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Charts

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Gi\_Bin

Cold Spot with...

Cold Spot with...

Cold Spot with...

Not Significant

Hot Spot with 9...

Hot Spot with 9...

Hot Spot with 9...

Charts

Histogram...

TempTrends\_Cl...

LMiPValue IDW 16...

0.002000 - 0.058...

0.058001 - 0.156...

0.156001 - 0.264...

0.264001 - 0.378...

0.378001 - 0.500...

Charts

Histogram...

Moran's Sca...

TempTrends

ConterminousU...

1:56,528,709

20.4463433°W 4.2667512°N

TempTrends

TempTrends\_ClustersOutliers1

Field: Selection:

OBJECTID	Shape	SOURCE_ID	dT	LMiIndex IDW 160616 RS	LMiZScore IDW 160616
2	Point	2	0.075	0.209315	0.956
3	Point	3	0.361	-0.067491	-0.844
4	Point	4	0.413	-0.207274	-1.39
5	Point	5	0.113	0.146588	0.74
6	Point	6	0.163	0.119193	1.181
7	Point	7	-0.104	1.053535	2.840
8	Point	8	0.174	0.28085	3.002
9	Point	9	-0.128	0.2873	0.710

0 of 1,221 selected

Filters

Spatially Constrained Multivariate...

Parameters

Input Features

TempTrends

Output Features

TempTrends\_SpatiallyConstrainedMultivariat

Analysis Fields

Code

Lat

Lon

Elevation

dT

zscore

dT\_fix

Cluster Size Constraints

None

Number of Clusters

3

Spatial Constraints

Trimmed Delaunay triangulation

Permutations to Calculate Membership Probabilities

0

Output Table for Evaluating Number of Clusters

Run

Spatially Constrained Multivariate Clustering completed with warnings.

View Details

Open History

Catal...

Geop...

Sym...

Label...

Attri...

Char...



