

Appendix

Geospatial Health #673

Predicting transmission of pulmonary tuberculosis in Daerah Istimewa Yogyakarta Province, Indonesia

Crimstat III output result.

1. SDE

Standard Deviational Ellipse:

Sample size.....: 132
Measurement type.....: Direct
Start time.....: 08:56:28 PM, 03/08/2015

Clockwise angle of Y-axis rotation...: 26.223383 degrees
Ratio of long to short axis.....: 2.1012

SD along new Y axis: 12796.01 m, 41981.65 ft, 7.95107 mi
SD along new X axis: 26887.12 m, 88212.34 ft, 16.70688 mi

Y axis length: 25592.02 m, 83963.31 ft, 15.90214 mi
X axis length: 53774.24 m, 176424.68 ft, 33.41376 mi

Area of ellipse: 1080858107.20 sq m
11634259839.10 sq ft
417.32165 sq mi

End time.....: 08:56:28 PM, 03/08/2015

Standard Deviational Ellipse (2X):

SD along new Y axis: 25592.02 m, 83963.31 ft, 15.90214 mi
SD along new X axis: 53774.24 m, 176424.68 ft, 33.41376 mi

Y axis length: 51184.03 m, 167926.61 ft, 31.80428 mi
X axis length: 107548.48 m, 352849.36 ft, 66.82753 mi

Area of ellipse: 4323432428.81 sq m
46537039356.40 sq ft
1669.28659 sq mi

2. Kernel density

Kernel Density Estimate:

Probability function...: Triangular
Reference points.....: 7400
Incident points.....: 132
Measurement type.....: Direct
Type of calculation....: Absolute Densities
Start time.....: 09:16:28 PM, 03/08/2015
End time.....: 09:16:30 PM, 03/08/2015

Displaying 45 estimates(s) starting from 1

Location Absolute Densities Scientific

00001 0.0119460704 1.194607e-002
00002 0.0119873458 1.198735e-002
00003 0.0118865384 1.188654e-002
00004 0.0120650668 1.206507e-002
00005 0.0119611055 1.196111e-002
00006 0.0121354605 1.213546e-002
00007 0.0121675483 1.216755e-002
00008 0.0120624142 1.206241e-002
00009 0.0122350591 1.223506e-002
00010 0.0122656596 1.226566e-002
00011 0.0121544997 1.215450e-002
00012 0.0121798876 1.217989e-002
00013 0.0122023082 1.220231e-002
00014 0.0122215596 1.222156e-002
00015 0.0122374302 1.223743e-002
00016 0.0123884074 1.238841e-002
00017 0.0122581339 1.225813e-002
00018 0.0124011390 1.240114e-002
00019 0.0124011720 1.240117e-002
00020 0.0123966379 1.239664e-002
00021 0.0122485504 1.224855e-002
00022 0.0123727693 1.237277e-002
00023 0.0122139711 1.221397e-002
00024 0.0123272241 1.232722e-002
00025 0.0121563800 1.215638e-002
00026 0.0121181532 1.211815e-002
00027 0.0122127760 1.221278e-002
00028 0.0120211372 1.202114e-002
00029 0.0121017771 1.210178e-002
00030 0.0120347886 1.203479e-002
00031 0.0118187853 1.181879e-002
00032 0.0117346644 1.173466e-002
00033 0.0117832838 1.178328e-002
00034 0.0115390330 1.153903e-002
00035 0.0115695031 1.156950e-002
00036 0.0114475422 1.144754e-002

00037	0.0113693150	1.136932e-002
00038	0.0116281026	1.162810e-002
00039	0.0117404075	1.174041e-002
00040	0.0117077069	1.170771e-002
00041	0.0118131334	1.181313e-002
00042	0.0119145405	1.191454e-002
00043	0.0120117357	1.201174e-002
00044	0.0121045327	1.210453e-002
00045	0.0122284452	1.222845e-002

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