Program run on: Tue Aug 23 08:17:49 2005

Prospective Space-Time analysis
scanning for clusters with high rates
using the Poisson model.

SUMMARY OF DATA

Study period........: 2002/3/12 - 2002/9/9
Number of locations.: 382
Total population.....: 5508750
Total cases.........: 48
Annual cases / 100000.: 1.7

MOST LIKELY CLUSTER

1. Location IDs included.: 02482, 02481, 02462, 02492, 02494,
                         01760
   Coordinates / radius.: (42.296345 N, 71.293221 W) / 5.44 km
   Time frame............: 2002/9/6 - 2002/9/9
   Population............: 88920
   Number of cases.......: 4
   Expected cases........: 0.02
   Annual cases / 100000.: 410.8
   Observed / expected...: 234.900
   Log likelihood ratio.: 18.023758
   Monte Carlo rank......: 1/1000
   P-value...............: 0.001
   Null Occurrence.......: Once in 2 years and 272 days

SECONDARY CLUSTERS

2. Location IDs included.: 01983, 01984, 01982, 01923, 01921,
                         01949, 01969, 01833, 01915, 01960,
                         01938, 01922, 01845, 01834, 01864,
                         01929, 01940
   Coordinates / radius.: (42.640877 N, 70.935860 W) / 14.30 km
   Time frame............: 2002/9/2 - 2002/9/9
   Population............: 238503
   Number of cases.......: 2
   Expected cases........: 0.09
   Annual cases / 100000.: 38.3
   Observed / expected...: 21.894
   Log likelihood ratio.: 4.302328
   Monte Carlo rank......: 421/1000
   P-value...............: 0.421
   Null Occurrence.......: Once in 2 days

3. Location IDs included.: 02364, 02367, 02332, 02338, 02330,
Coordinates / radius..: (41.983871 N, 70.741760 W) / 45.73 km
Time frame............: 2002/9/4 - 2002/9/9
Population............: 1471875
Number of cases.......: 3
Expected cases........: 0.42
Annual cases / 100000.: 12.4
Observed / expected...: 7.095
Log likelihood ratio..: 3.372279
Monte Carlo rank......: 554/1000
P-value...............: 0.554
Null Occurrence.......: Once in 2 days

The log likelihood ratio value required for an observed cluster to be significant at level
... 0.01: 10.913655
... 0.05: 8.495663

PARAMETER SETTINGS

Input Files
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Case File                    : c:\SMAC\SaTScan files\cases.txt
Population File              : c:\SMAC\SaTScan files\population.txt
Coordinates File             : c:\SMAC\satscan files\zipcodes.txt

Time Precision     : Day
Coordinates        : Latitude/Longitude

Analysis
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Type of Analysis    : Prospective Space-Time
Probability Model   : Poisson
Scan for Areas with : High Rates

Start Date : 2002/3/12
End Date   : 2002/9/9
Number of Replications : 999

Scanning Window
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Maximum Spatial Cluster Size          : 50.00 %
Also Include Purely Temporal Clusters : No
Maximum Temporal Cluster Size         : 14.00 Days
Also Include Purely Spatial Clusters  : No

Time Parameters
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Time Aggregation Units  : Day
Time Aggregation Length : 1

Temporal Adjustment : None
Spatial Adjustment  : None
Adjusted for Earlier Analyses : No

Output
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Results File          : c:\SMAC\SaTScan files\crypto output.txt
Cluster File          : c:\SMAC\SaTScan files\crypto output.col.txt
Location File         : c:\SMAC\SaTScan files\crypto output.gis.txt
Simulated LLRs File   : c:\SMAC\SaTScan files\crypto output.llr.txt

Criteria for Reporting Secondary Clusters : No Geographical Overlap

Program completed  : Tue Aug 23 08:18:16 2005
Total Running Time : 27 seconds