1 Model Specification (Sparse Space-Time Autoregressive)

We consider the following Sparse Space-Time Autoregressive (SSTAR) model for R regions with the following specification (1), with the stack matrix formulation is defined here in order to derive the SSTAR specific forecast error impulse response function in the following section.

Our SSTAR consists of matrices $Y_{t-i_1}(R \times 1)$, $A_{i_1}(R \times R)$, $B_{i_2}(R \times R)$, $W_{i_2}(R \times R)$. In addition, we consider a diagonal time autoregressive matrix $\text{diag}(A_{i_1}) = \phi_{i_1,1:R}$ with $\phi_{i_1,1:R}$ entry denoting the $i_1^{th}$ autoregressive coefficient for regions 1 to R, a diagonal time-space autoregressive matrix $\text{diag}(B_{i_2}) = \gamma_{i_2,1:R}$ with $\gamma_{i_2,1:R}$ entry denoting the $i_2^{th}$ space-time recursive coefficient for regions 1 to R and a weight matrix with diagonal entries made to be zero $\text{diag}(W) = W$ the distance/adjacency matrix between regions as described in the main text. We may also consider $H$ exogenous variables $C_{i_3,u}(R \times R)$, with
\[ \text{diag}(C_{i^3,u}) = c_{i^3,u,1:R} \] denoting the \( i_3^{th} \) lag of variable \( u \) associated to \( Y_t \). \( P_1, P_2, P_3 \) are the number of lag terms associated to autoregressive, space-time recursive and exogenous coefficients respectively. Finally \( \epsilon_t \) denotes the noise vector.

\[ Y_t = \sum_{i_1=1}^{P_1} A_{i_1} Y_{t-i_1} + \sum_{i_2=1}^{P_2} B_{i_2} W Y_{t-i_2} + \sum_{u=1}^{P_3} \sum_{i_3=1}^{H} C_{i_3,u} X_{u,t-i_3} + \epsilon_t \]  

(1)

It is easy to see that SSTAR is of seemingly-unrelated regression form by considering the model specification for the \( k^{th} \) row of \( Y_t \) for the \( k^{th} \) region (2), with estimation proceeding by considering the following equation by equation penalized minimization problem iteratively for all regions (3).

\[ y_{t,k} = \sum_{i_1=1}^{P_1} \phi_{i_1,k} y_{t-i_1,k} + \sum_{i_2=1}^{P_2} \gamma_{i_2,k} W y_{t-i_2,-k} + \sum_{u=1}^{P_3} \sum_{i_3=1}^{H} \sum_{k=1} c_{i_3,u,k} X_{u,t-i_3} + \epsilon_t \]

(2)

\[ \text{argmin}_{\phi, \gamma, c, \lambda} \left[ \| y_{t,k} - \sum_{i_1=1}^{P_1} \phi_{i_1,k} y_{t-i_1,k} - \sum_{i_2=1}^{P_2} \gamma_{i_2,k} W y_{t-i_2,-k} - \sum_{u=1}^{P_3} \sum_{i_3=1}^{H} \sum_{k=1} c_{i_3,u,k} X_{u,t-i_3} \|^2 - \lambda \| \phi, \gamma, c \| \right] \]

(3)

2 SSTAR Forecast Error Impulse Response Function

The companion form of SSTAR was utilized to derive the forecast error impulse response function (FEIR) (4). Define \( Y_T \) to be a Px1 vector where entries \( \{ Y_t, \ldots Y_{t_{p-1}} \} \) are \( N \times R \) observations of \( N \) time-points from \( R \) regions. \( A_{PRxPR} \) an autoregressive matrix as defined in (6), \( B_{PRxPR} \) a space-time autoregressive matrix as defined in (7) and \( W_{PRxPR} \) a space-time diagonal weight matrix (8) with \( \text{diag}(W) = W, \) where \( W_{PRxR} \) the time-invariant weight matrices defining distance between regions as described in section 1. We deprecate exogenous variables from FEIR computations as they may be treated as a time varying intercept term.

\[ Y_T = A Y_{T-1} + B W Y_{T-1} + \epsilon_t \]

(4)

\[ Y_T = \begin{bmatrix} Y_t & Y_{t-1} & \ldots & Y_{t-p_{1}-1} \end{bmatrix} \]

(5)

\[ A = \begin{bmatrix} A_1 & A_2 & \ldots & A_{p_1} \\ I_n & 0 & \ldots & 0 \\ 0 & I_n & \ldots & \vdots \\ \vdots & \ddots & \ddots & \vdots \\ 0 & \ldots & I_n & 0 \end{bmatrix} \]

(6)

\[ B = \begin{bmatrix} B_1 & B_2 & \ldots & B_{p_2} \\ I_n & 0 & \ldots & 0 \\ 0 & I_n & \ldots & \vdots \\ \vdots & \ddots & \ddots & \vdots \\ 0 & \ldots & I_n & 0 \end{bmatrix} \]

(7)

\[ W = \begin{bmatrix} W & 0 & \ldots & 0 \\ 0 & W & \ldots & \vdots \\ \vdots & \vdots & \ddots & 0 \\ 0 & 0 & \ldots & W \end{bmatrix} \]

(8)

By defining the FEIR for some \( j^{th} \) region shock as the effect of \( \epsilon_{t,j} \) on \( Y_{T+h} \) [2], we yield the FEIR for SSTAR on the \( h^{th} \) horizon by recursion as in (9). \( e_j \) denotes a selection vector with zeros everywhere except \( e_{jj} = 1 \).
\[
\frac{\partial Y_{T+h}}{\partial \epsilon_{t,j}} = \frac{\partial}{\partial \epsilon_{t,j}} AY_{T+h-1} + BWY_{T+h-1} + \epsilon_{t+h-1}
\]
\[
= \frac{\partial}{\partial \epsilon_{t,j}} (A + BW)Y_{t+h-1} + \epsilon_{t+h-1}
\]
\[
= \sum_{i=1}^{h} (A + BW)^i \epsilon_i
\]
\[
= \sum_{i=1}^{h} (A + BW)^i \epsilon_i
\]

As we assume no contemporaneous relationships for the estimated model, we can simply identify \( \alpha \) level confidence intervals for the IRF by using the bootstrap interval estimates for (4). The procedure proceeds as follows:

1. Retrieve point estimates for \( \hat{A}, \hat{B} \) by (3)
2. Obtain bootstrap confidence intervals by block bootstrapping \( N \) samples and re-estimating \( \hat{A}_{\text{boot}}, \hat{B}_{\text{boot}} \) at each iteration
3. Use samples obtained from Step 2 to construct the sampling distributions \( \hat{P}_A, \hat{P}_B \)
4. Retrieve the FEIR intervals by plugging in \( \alpha \) and 1- \( \alpha \) sampled values, \( \hat{A}_\alpha, \hat{B}_\alpha, \hat{A}_{1-\alpha}, \hat{B}_{1-\alpha} \) into (9).

3 SSTAR Generalised Impulse Response Function

We modified Pesaran and Shin’s (1998) [3] procedure to the SSTAR to obtain the generalised impulse response functions (GIRF). The GIRF is defined as the difference of conditional expectation of the forward forecast \( y_{t+j} \) given an one time shock \( \delta_i \) occurs in series \( j \) given the information set \( \Omega_{t-1} \).

\[
GI(j, \delta, \Omega_{t-1}) = E[y_{t+j}|\epsilon_{it} = \delta_i, \Omega_{t-1}] - E[y_{t+j}|\Omega_{t-1}]
\]  

The SSTAR (4) has the VMA(\( \infty \)) form required for computation of GIRF after deriving the companion SSTAR form for the specification. \( G_iX_i \) denotes the companion form matrix of exogenous variables irrelevant to GIRF calculations.

\[
Y_t = \sum_{i=0}^{\infty} (A + BW)^i \epsilon_{t-i} + \sum_{i=0}^{\infty} (G_iX_i)^i
\]

We detail the full computational procedure to compute GIRF for SSTAR below:

1. Obtain the error variance-covariance matrix of under \( L_1 \) penalty by adapting Fan, Guo, and Hao (2012)’s estimator [1] to the vector autoregressive case with \( \hat{s}_{L,\lambda} \) number of nonzero coefficients under penalized estimation:

\[
\hat{\Sigma}_{L,\lambda} = \frac{1}{n - \hat{s}_{L,\lambda}} \sum_{i=1}^{T} \| Y_t - \hat{A}Y_{t-1} - \hat{B}WY_{t-1} - \hat{C}X_{t-1} \|_2
\]

This provides us with the approximation \( \hat{\epsilon} \sim N(0, \hat{\Sigma}_{L,\lambda}) \)

2. Pick a one standard deviation shock for the \( j \)th region \( \epsilon_{it} = \delta_i = \sigma_{jj} \)

3. Modify Pesaran and Shin’s (1998) expression to yield the scaled GIRF for the SSTAR, where \( A_{PRxPR} \) is a selection square matrix \( \text{diag}(\Lambda) = 1 \) for the first 1 to J diagonals and 0 everywhere else.

\[
GI(j, \delta, \Omega_{t-1}) = \sigma^{-0.5}_{jj} (\hat{A} + \hat{B}W)^j \hat{\Sigma}_j \Lambda_{L,\lambda}
\]
4 Region Summary Statistics

| Region        | Mean   | Standard Deviation |
|---------------|--------|--------------------|
| Johor         | 127.55 | 116.54             |
| Kedah         | 17.69  | 9.37               |
| Kelantan      | 79.27  | 153.21             |
| Kuala Lumpur  | 103.59 | 65.25              |
| Labuan        | 1.35   | 2.97               |
| Melaka        | 30.82  | 22.94              |
| Negeri Sembilan | 38.73 | 32.37              |
| Pahang        | 33.27  | 23.33              |
| Perak         | 81.95  | 72.85              |
| Perlis        | 3.98   | 3.30               |
| Pulau Pinang  | 46.75  | 39.08              |
| Sabah         | 36.04  | 26.67              |
| Sarawak       | 36.13  | 30.45              |
| Selangor      | 651.73 | 466.23             |
| Singapore     | 185.76 | 157.96             |
| Terengganu    | 21.42  | 23.92              |

Mean and standard deviation of each region’s dengue case counts from 2000-2017

5 Forecast Mean Absolute Error Across Regions

5.1 1 Week Ahead rMAE

| Region             | MAESTAR MAEARTH | MAESTAR MAEFGLS-AR | MAESTAR MAESTAR | MAESTAR MAESTAR-2 |
|--------------------|-----------------|--------------------|-----------------|-------------------|
| Johor              | 0.95            | 0.94               | 0.92            | 0.94              |
| Kedah              | 0.93            | 0.94               | 0.89            | 0.89              |
| Kelantan           | 0.66            | 0.58               | 0.55            | 0.59              |
| Kuala Lumpur       | 0.95            | 0.92               | 0.91            | 0.91              |
| Labuan             | 0.75            | 0.71               | 0.70            | 0.73              |
| Melaka             | 0.93            | 0.86               | 0.82            | 0.86              |
| Negeri Sembilan    | 0.90            | 0.84               | 0.80            | 0.84              |
| Pahang             | 0.94            | 0.91               | 0.88            | 0.90              |
| Perak              | 0.81            | 0.79               | 0.77            | 0.81              |
| Perlis             | 0.94            | 0.93               | 0.91            | 0.92              |
| Pulau Pinang       | 0.92            | 0.91               | 0.89            | 0.90              |
| Sabah              | 0.97            | 0.95               | 0.94            | 0.95              |
| Sarawak            | 0.97            | 0.90               | 0.82            | 0.89              |
| Selangor           | 0.88            | 0.83               | 0.81            | 0.85              |
| Singapore          | 0.85            | 0.79               | 0.75            | 0.80              |
| Terengganu         | 0.89            | 0.84               | 0.82            | 0.87              |

Mean 0.89 0.85 0.82 0.85

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification. FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts. STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification
5.2 2 Week Ahead rMAE

| Region         | MAE_{SSTAR} | MAE_{FGLS-AR} | MAE_{STAR} | MAE_{STAR-2} |
|----------------|-------------|---------------|------------|--------------|
| Johor          | 0.90        | 0.87          | 0.87       | 0.88         |
| Kedah          | 0.82        | 0.79          | 0.77       | 0.72         |
| Kelantan       | 0.36        | 0.33          | 0.30       | 0.30         |
| Kuala Lumpur   | 1.00        | 0.93          | 0.88       | 0.96         |
| Labuan         | 0.50        | 0.39          | 0.38       | 0.42         |
| Melaka         | 0.85        | 0.70          | 0.63       | 0.69         |
| Negeri Sembilan| 0.73        | 0.69          | 0.57       | 0.66         |
| Pahang         | 0.80        | 0.78          | 0.72       | 0.73         |
| Perak          | 0.80        | 0.64          | 0.63       | 0.70         |
| Perlis         | 0.94        | 0.84          | 0.78       | 0.79         |
| Pulau Pinang   | 0.90        | 0.81          | 0.72       | 0.81         |
| Sabah          | 0.90        | 0.90          | 0.85       | 0.87         |
| Sarawak        | 0.69        | 0.64          | 0.53       | 0.57         |
| Selangor       | 0.75        | 0.72          | 0.67       | 0.72         |
| Singapore      | 0.76        | 0.60          | 0.55       | 0.64         |
| Terengganu     | 0.80        | 0.71          | 0.67       | 0.77         |
| Mean           | 0.78        | 0.71          | 0.66       | 0.70         |

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification, FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts, STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification.

5.3 3 Week Ahead rMAE

| Region         | MAE_{SSTAR} | MAE_{FGLS-AR} | MAE_{STAR} | MAE_{STAR-2} |
|----------------|-------------|---------------|------------|--------------|
| Johor          | 0.79        | 0.72          | 0.64       | 0.73         |
| Kedah          | 0.95        | 0.79          | 0.59       | 0.69         |
| Kelantan       | 0.30        | 0.25          | 0.25       | 0.27         |
| Kuala Lumpur   | 0.76        | 0.74          | 0.63       | 0.70         |
| Labuan         | 0.33        | 0.27          | 0.22       | 0.26         |
| Melaka         | 0.71        | 0.62          | 0.53       | 0.63         |
| Negeri Sembilan| 0.71        | 0.70          | 0.56       | 0.69         |
| Pahang         | 0.79        | 0.67          | 0.65       | 0.81         |
| Perak          | 0.61        | 0.52          | 0.67       | 0.75         |
| Perlis         | 0.77        | 0.57          | 0.53       | 0.76         |
| Pulau Pinang   | 0.71        | 0.62          | 0.53       | 0.68         |
| Sabah          | 0.83        | 0.84          | 0.81       | 0.80         |
| Sarawak        | 0.70        | 0.60          | 0.50       | 0.58         |
| Selangor       | 0.77        | 0.63          | 0.52       | 0.65         |
| Singapore      | 0.53        | 0.38          | 0.31       | 0.41         |
| Terengganu     | 0.72        | 0.57          | 0.54       | 0.66         |
| Mean           | 0.69        | 0.59          | 0.53       | 0.63         |

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification, FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts, STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification.
### 5.4 4 Week Ahead rMAE

| Region       | MAE<sub>STAR</sub> | MAE<sub>FGLS-AR</sub> | MAE<sub>STAR</sub> | MAE<sub>FGLS-AR</sub> | MAE<sub>STAR</sub> | MAE<sub>FGLS-AR</sub> |
|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Johor        | 0.77              | 0.66              | -                 | 0.66              |                   |                   |
| Kedah        | 0.54              | 0.38              | -                 | 0.34              |                   |                   |
| Kelantan     | 0.22              | 0.19              | -                 | 0.19              |                   |                   |
| Kuala Lumpur | 0.66              | 0.54              | -                 | 0.57              |                   |                   |
| Labuan       | 0.19              | 0.14              | -                 | 0.12              |                   |                   |
| Melaka       | 0.64              | 0.51              | -                 | 0.51              |                   |                   |
| Negeri Sembilan | 0.38         | 0.32              | -                 | 0.26              |                   |                   |
| Pahang       | 0.64              | 0.56              | -                 | 0.48              |                   |                   |
| Perak        | 0.58              | 0.52              | -                 | 0.51              |                   |                   |
| Perlis       | 0.75              | 0.58              | -                 | 0.42              |                   |                   |
| Pulau Pinang | 0.66              | 0.50              | -                 | 0.68              |                   |                   |
| Sabah        | 0.60              | 0.59              | -                 | 0.48              |                   |                   |
| Sarawak      | 0.59              | 0.47              | -                 | 0.34              |                   |                   |
| Selangor     | 0.53              | 0.46              | -                 | 0.49              |                   |                   |
| Singapore    | 0.42              | 0.26              | -                 | 0.35              |                   |                   |
| Terengganu   | 0.42              | 0.33              | -                 | 0.37              |                   |                   |
| Mean         | 0.54              | 0.44              | -                 | 0.42              |                   |                   |

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification, FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts, STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification.

### 5.5 1 Week Ahead MAE

| Region        | MAE<sub>AR</sub> | MAE<sub>FGLS-AR</sub> | MAE<sub>STAR</sub> | MAE<sub>STAR</sub> | MAE<sub>STAR</sub> |
|---------------|-----------------|------------------|-------------------|-------------------|-------------------|
| Johor         | 15.81           | 15.95            | 14.96             | 16.25             | 15.98             |
| Kedah         | 3.89            | 3.84             | 3.63              | 4.06              | 4.07              |
| Kelantan      | 13.65           | 15.62            | 9.00              | 16.32             | 15.30             |
| Kuala Lumpur  | 13.50           | 13.95            | 12.81             | 14.03             | 14.08             |
| Labuan        | 0.70            | 0.74             | 0.52              | 0.75              | 0.72              |
| Melaka        | 5.62            | 6.12             | 5.24              | 6.38              | 6.09              |
| Negeri Sembilan | 9.73        | 10.35            | 8.71              | 10.82             | 10.34             |
| Pahang        | 6.49            | 6.67             | 6.08              | 6.90              | 6.77              |
| Perak         | 10.63           | 10.89            | 8.60              | 11.11             | 10.64             |
| Perlis        | 1.48            | 1.51             | 1.40              | 1.53              | 1.52              |
| Pulau Pinang  | 7.48            | 7.60             | 6.89              | 7.72              | 7.68              |
| Sabah         | 6.04            | 6.13             | 5.85              | 6.24              | 6.14              |
| Sarawak       | 3.71            | 3.99             | 3.61              | 4.38              | 4.07              |
| Selangor      | 49.09           | 51.98            | 43.29             | 53.32             | 50.75             |
| Singapore     | 14.04           | 15.05            | 11.96             | 15.92             | 14.96             |
| Terengganu    | 3.81            | 4.01             | 3.38              | 4.13              | 3.90              |

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification, FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts, STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification.
### 5.6 2 Week Ahead MAE

| Region      | MAE<sub>AR</sub> | MAE<sub>FGLS-AR</sub> | MAE<sub>SSTAR</sub> | MAE<sub>STAR</sub> | MAE<sub>STAR-2</sub> |
|-------------|------------------|------------------------|---------------------|--------------------|----------------------|
| Johor       | 25.81            | 26.86                  | 23.34               | 26.98              | 26.62                |
| Kedah       | 5.52             | 5.70                   | 4.52                | 5.85               | 6.27                 |
| Kelantan    | 35.58            | 38.48                  | 12.63               | 41.84              | 41.82                |
| Kuala Lumpur| 15.55            | 16.80                  | 15.55               | 17.77              | 16.25                |
| Labuan      | 0.65             | 0.83                   | 0.33                | 0.86               | 0.77                 |
| Melaka      | 6.60             | 8.05                   | 5.61                | 8.95               | 8.18                 |
| Negeri Sembilan | 10.05        | 10.70                  | 7.35                | 12.83              | 11.15                |
| Pahang      | 8.63             | 8.92                   | 6.93                | 9.62               | 9.44                 |
| Perak       | 12.14            | 15.15                  | 9.68                | 15.30              | 13.85                |
| Perlis      | 1.70             | 1.91                   | 1.60                | 2.04               | 2.02                 |
| Pulau Pinang| 8.47             | 9.35                   | 7.61                | 10.63              | 9.34                 |
| Sabah       | 7.51             | 7.46                   | 6.73                | 7.94               | 7.74                 |
| Sarawak     | 5.71             | 6.19                   | 3.95                | 7.48               | 6.92                 |
| Selangor    | 76.71            | 79.86                  | 57.82               | 86.93              | 80.26                |
| Singapore   | 23.08            | 29.46                  | 17.64               | 31.93              | 27.44                |
| Terengganu  | 5.86             | 6.59                   | 4.70                | 6.98               | 6.11                 |

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification, FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts, STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification.

### 5.7 3 Week Ahead MAE

| Region      | MAE<sub>AR</sub> | MAE<sub>FGLS-AR</sub> | MAE<sub>SSTAR</sub> | MAE<sub>STAR</sub> | MAE<sub>STAR-2</sub> |
|-------------|------------------|------------------------|---------------------|--------------------|----------------------|
| Johor       | 31.56            | 34.25                  | 24.81               | 38.71              | 34.14                |
| Kedah       | 4.42             | 5.26                   | 4.18                | 7.10               | 6.09                 |
| Kelantan    | 51.23            | 63.18                  | 15.58               | 63.01              | 58.64                |
| Kuala Lumpur| 26.08            | 27.06                  | 19.95               | 31.50              | 28.57                |
| Labuan      | 1.22             | 1.52                   | 0.41                | 1.85               | 1.56                 |
| Melaka      | 9.44             | 10.75                  | 6.71                | 12.67              | 10.68                |
| Negeri Sembilan | 13.09        | 13.15                  | 9.25                | 16.44              | 13.41                |
| Pahang      | 9.57             | 11.24                  | 7.52                | 11.55              | 9.26                 |
| Perak       | 20.83            | 24.38                  | 12.62               | 18.79              | 16.81                |
| Perlis      | 1.75             | 2.33                   | 1.34                | 2.51               | 1.76                 |
| Pulau Pinang| 13.55            | 15.50                  | 9.57                | 18.03              | 14.17                |
| Sabah       | 10.04            | 9.90                   | 8.34                | 10.29              | 10.41                |
| Sarawak     | 7.54             | 8.72                   | 5.27                | 10.64              | 9.09                 |
| Selangor    | 94.13            | 114.27                 | 72.03               | 139.60             | 110.99               |
| Singapore   | 33.92            | 46.78                  | 17.99               | 57.16              | 44.38                |
| Terengganu  | 7.97             | 10.05                  | 5.77                | 10.65              | 8.77                 |

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification, FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts, STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification.
### 5.8 4 Week Ahead MAE

| Region       | MAE<sub>AR</sub> | MAE<sub>FGLS-AR</sub> | MAE<sub>SSTAR</sub> | MAE<sub>STAR</sub> | MAE<sub>STAR-2</sub> |
|--------------|------------------|------------------------|---------------------|---------------------|-----------------------|
| Johor        | 39.77            | 46.79                  | 30.65               | -                   | 46.66                 |
| Kedah        | 7.88             | 11.14                  | 4.26                | -                   | 12.41                 |
| Kelantan     | 95.48            | 109.24                 | 20.90               | -                   | 110.20                |
| Kuala Lumpur | 30.20            | 36.38                  | 19.83               | -                   | 34.74                 |
| Labuan       | 1.72             | 2.36                   | 0.32                | -                   | 2.71                  |
| Melaka       | 11.93            | 15.02                  | 7.65                | -                   | 14.90                 |
| Negeri Sembilan | 24.45         | 29.34                  | 9.27                | -                   | 35.82                 |
| Pahang       | 11.49            | 13.21                  | 7.35                | -                   | 15.28                 |
| Perak        | 26.16            | 29.03                  | 15.06               | -                   | 29.45                 |
| Perlis       | 2.28             | 2.94                   | 1.70                | -                   | 4.02                  |
| Pulau Pinang | 18.81            | 24.72                  | 12.46               | -                   | 18.29                 |
| Sabah        | 16.36            | 16.47                  | 9.76                | -                   | 20.25                 |
| Sarawak      | 8.62             | 10.77                  | 5.10                | -                   | 15.11                 |
| Selangor     | 122.06           | 138.22                 | 64.17               | -                   | 130.77                |
| Singapore    | 70.77            | 115.04                 | 30.07               | -                   | 85.91                 |
| Terengganu   | 18.63            | 24.11                  | 7.85                | -                   | 21.41                 |

SSTAR was estimated using penalized least squares and 5-fold cross validation with both connectivity and weight matrices within the specification, FGLS-AR was estimated using feasible generalized least squares with variance weighted by own region counts, STAR and STAR-2 were estimated using least squares with connectivity and weight matrices of other regions added into the specification.

### 6 SSTAR Bootstrap Intervals

#### 6.1 Johor

|                          | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------------|--------------|---------------|------|
| Own Counts Lag 1         | 0.09         | 0.71          | 0.45 |
| Own Counts Lag 2         | 0.00         | 0.53          | 0.24 |
| Own Counts Lag 3         | -0.09        | 0.30          | 0.05 |
| Own Counts Lag 4         | -0.08        | 0.22          | 0.02 |
| Own Counts Lag 5         | -0.18        | 0.21          | 0.01 |
| Own Counts Lag 6         | -0.05        | 0.24          | 0.03 |
| Own Counts Lag 7         | -0.20        | 0.22          | 0.01 |
| Own Counts Lag 8         | -0.03        | 0.32          | 0.05 |
| Own Counts Lag 9         | -0.17        | 0.18          | 0.00 |
| Own Counts Lag 10        | -0.19        | 0.11          | -0.01|
| Absolute Humidity Lag 1  | -0.06        | 29.66         | 2.72 |
| Absolute Humidity Lag 2  | -9.16        | 24.17         | 1.27 |
| Absolute Humidity Lag 3  | -42.70       | 26.73         | -2.11|
| Absolute Humidity Lag 4  | -10.06       | 54.63         | 7.00 |
| Absolute Humidity Lag 5  | 0.00         | 60.38         | 10.02|
| Absolute Humidity Lag 6  | -77.20       | 0.00          | -16.52|
| Absolute Humidity Lag 7  | -52.41       | 0.00          | -5.44|
| Absolute Humidity Lag 8  | -29.12       | 25.75         | -0.75|
| Absolute Humidity Lag 9  | 0.00         | 50.75         | 7.39 |
| Absolute Humidity Lag 10 | -3.05        | 23.16         | 1.53 |
| Relative Humidity Lag 1  | 0.00         | 84.14         | 21.31|
| Relative Humidity Lag 2  | 0.00         | 84.42         | 17.60|
| Relative Humidity Lag 3  | -32.93       | 14.08         | -2.04|
| Relative Humidity Lag 4  | -28.98       | 8.94          | -1.90|
| Relative Humidity Lag 5  | -34.18       | 7.09          | -2.49|
| Relative Humidity Lag 6  | -14.10       | 5.97          | -0.48|
| Relative Humidity Lag 7  | -11.42       | 21.15         | 1.42 |
| Relative Humidity Lag 8  | -8.35        | 33.03         | 3.33 |
| Relative Humidity Lag 9  | -16.92       | 20.08         | 0.20 |
| Relative Humidity Lag 10 | 0.00         | 37.65         | 5.87 |
| Total Precipitation Lag 1| -151.25      | 0.00          | -45.64|
|                          | Lag 1 | Lag 2 | Lag 3 | Lag 4 | Lag 5 | Lag 6 | Lag 7 | Lag 8 | Lag 9 | Lag 10 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| **Total Precipitation**  |       |       |       |       |       |       |       |       |       |        |
| Lag 2                    | -121.00 | 0.00  |       |       |       |       |       |       |       | -24.38 |
| Lag 3                    | -80.96  | 16.48 | -24.38|       |       |       |       |       |       |        |
| Lag 4                    | -79.79  | 9.39  | -16.76|       |       |       |       |       |       |        |
| Lag 5                    | -17.93  | 108.12| 14.60 |       |       |       |       |       |       |        |
| Lag 6                    | -71.65  | 23.27 | -5.12 |       |       |       |       |       |       |        |
| Lag 7                    | -57.79  | 40.69 | -2.25 |       |       |       |       |       |       |        |
| Lag 8                    | -47.03  | 33.79 | -3.03 |       |       |       |       |       |       |        |
| Lag 9                    | -74.40  | 34.28 | -10.89|       |       |       |       |       |       |        |
| Lag 10                   | -76.96  | 5.20  | -15.59|       |       |       |       |       |       |        |
| **Temperature**          |       |       |       |       |       |       |       |       |       |        |
| Lag 1                    | -39.55  | 0.00  | -4.86 |       |       |       |       |       |       |        |
| Lag 2                    | -53.40  | 0.00  | -6.07 |       |       |       |       |       |       |        |
| Lag 3                    | -20.59  | 7.98  | -0.75 |       |       |       |       |       |       |        |
| Lag 4                    | 0.00    | 41.37 | 5.47  |       |       |       |       |       |       |        |
| Lag 5                    | 0.00    | 73.52 | 12.43 |       |       |       |       |       |       |        |
| Lag 6                    | -53.87  | 0.00  | -10.24|       |       |       |       |       |       |        |
| Lag 7                    | -44.58  | 0.00  | -6.33 |       |       |       |       |       |       |        |
| Lag 8                    | -31.82  | 2.46  | -2.95 |       |       |       |       |       |       |        |
| Lag 9                    | 0.00    | 49.68 | 7.07  |       |       |       |       |       |       |        |
| Lag 10                   | -34.31  | 9.37  | -2.75 |       |       |       |       |       |       |        |
| **Connectivity**         |       |       |       |       |       |       |       |       |       |        |
| Lag 1                    | 0.00    | 0.31  | 0.07  |       |       |       |       |       |       |        |
| Lag 2                    | 0.00    | 0.30  | 0.05  |       |       |       |       |       |       |        |
| Lag 3                    | -0.03   | 0.05  | -0.00 |       |       |       |       |       |       |        |
| Lag 4                    | 0.00    | 0.19  | 0.01  |       |       |       |       |       |       |        |
| Lag 5                    | 0.00    | 0.10  | 0.00  |       |       |       |       |       |       |        |
| Lag 6                    | 0.00    | 0.21  | 0.02  |       |       |       |       |       |       |        |
| Lag 7                    | 0.00    | 0.43  | 0.05  |       |       |       |       |       |       |        |
| Lag 8                    | 0.00    | 0.02  | 0.00  |       |       |       |       |       |       |        |
| Lag 9                    | 0.00    | 0.43  | 0.09  |       |       |       |       |       |       |        |
| Lag 10                   | 0.00    | 0.35  | 0.05  |       |       |       |       |       |       |        |
| **Adjacency**            |       |       |       |       |       |       |       |       |       |        |
| Lag 1                    | -0.13   | 0.00  | -0.01 |       |       |       |       |       |       |        |
| Lag 2                    | -0.34   | 0.00  | -0.03 |       |       |       |       |       |       |        |
| Lag 3                    | -0.54   | 0.00  | -0.07 |       |       |       |       |       |       |        |
| Lag 4                    | -0.59   | 0.00  | -0.07 |       |       |       |       |       |       |        |
| Lag 5                    | -0.63   | 0.00  | -0.10 |       |       |       |       |       |       |        |
| Lag 6                    | -0.44   | 0.00  | -0.05 |       |       |       |       |       |       |        |
| Lag 7                    | -0.94   | 0.00  | -0.12 |       |       |       |       |       |       |        |
| Lag 8                    | -0.98   | 0.00  | -0.21 |       |       |       |       |       |       |        |
| Lag 9                    | 0.00    | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 10                   | -0.32   | 0.00  | -0.03 |       |       |       |       |       |       |        |

**Table 1:** SSTAR Bootstrap Values: Johor
### 6.2 Kedah

|                     | 2.5 Quantile | 97.5 Quantile | Mean |
|---------------------|--------------|---------------|------|
| Own Counts Lag 1    | -0.03        | 0.31          | 0.09 |
| Own Counts Lag 2    | -0.31        | 0.00          | -0.09|
| Own Counts Lag 3    | 0.00         | 0.42          | 0.11 |
| Own Counts Lag 4    | -0.06        | 0.30          | 0.06 |
| Own Counts Lag 5    | -0.13        | 0.19          | 0.01 |
| Own Counts Lag 6    | -0.30        | 0.08          | -0.03|
| Own Counts Lag 7    | 0.00         | 0.49          | 0.21 |
| Own Counts Lag 8    | -0.02        | 0.34          | 0.08 |
| Own Counts Lag 9    | -0.28        | 0.11          | -0.04|
| Own Counts Lag 10   | -0.37        | 0.01          | -0.06|
| Absolute Humidity   | -8.19        | 5.16          | -0.08|
| Absolute Humidity   | -9.92        | 9.30          | 0.01 |
| Absolute Humidity   | -1.63        | 15.56         | 1.71 |
| Absolute Humidity   | -4.10        | 10.50         | 0.86 |
| Absolute Humidity   | -0.01        | 16.02         | 1.34 |
| Absolute Humidity   | -16.15       | 0.00          | -1.53|
| Absolute Humidity   | -1.45        | 19.43         | 1.48 |
| Absolute Humidity   | -19.38       | 0.00          | -4.23|
| Absolute Humidity   | -3.59        | 10.32         | 0.57 |
| Absolute Humidity   | -15.08       | 2.82          | -1.82|
| Relative Humidity   | 0.00         | 8.69          | 0.72 |
| Relative Humidity   | -0.86        | 8.97          | 1.06 |
| Relative Humidity   | -4.86        | 3.34          | -0.12|
| Relative Humidity   | -8.94        | 4.35          | -0.25|
| Relative Humidity   | 0.00         | 12.40         | 1.98 |
| Relative Humidity   | 0.00         | 2.52          | 0.14 |
| Relative Humidity   | 0.00         | 7.10          | 0.51 |
| Relative Humidity   | -8.73        | 0.00          | -0.62|
| Relative Humidity   | -2.80        | 6.14          | 0.18 |
| Relative Humidity   | -8.74        | 0.00          | -0.96|
| Total Precipitation | -12.93       | 0.66          | -2.63|
| Total Precipitation | -8.01        | 4.90          | -0.40|
| Total Precipitation | -6.22        | 4.44          | -0.17|
| Total Precipitation | -5.07        | 6.45          | 0.38 |
| Total Precipitation | -3.72        | 7.82          | 0.91 |
| Total Precipitation | -11.46       | 3.22          | -1.12|
| Total Precipitation | -8.01        | 4.23          | -0.61|
| Total Precipitation | -1.82        | 10.45         | 1.80 |
| Total Precipitation | -3.45        | 9.91          | 0.81 |
| Total Precipitation | -9.07        | 1.86          | -1.26|
| Temperature         | -15.04       | 0.00          | -1.77|
| Temperature         | -10.34       | 0.00          | -1.11|
| Temperature         | -0.82        | 9.09          | 0.49 |
| Temperature         | -5.36        | 8.50          | 0.21 |
| Temperature         | -6.67        | 1.87          | -0.40|
| Temperature         | -14.94       | 0.00          | -2.32|
| Temperature         | -2.13        | 8.16          | 0.53 |
| Temperature         | -4.99        | 0.00          | -0.29|
| Temperature         | -2.92        | 9.69          | 0.69 |
| Temperature         | -0.98        | 8.12          | 0.60 |
| Connectivity        | 0.00         | 0.35          | 0.06 |
| Connectivity        | -0.49        | 0.00          | -0.04|
| Connectivity        | -0.02        | 0.15          | 0.01 |
| Connectivity        | 0.00         | 0.26          | 0.04 |
| Connectivity        | 0.00         | 0.29          | 0.03 |
| Connectivity        | 0.00         | 0.14          | 0.01 |
| Connectivity        | 0.00         | 0.37          | 0.06 |
| Connectivity        | 0.00         | 0.16          | 0.02 |
| Connectivity        | -0.41        | 0.00          | -0.04|
| Connectivity        | 0.00         | 0.37          | 0.05 |
| Adjacency           | -0.43        | 0.02          | -0.06|
| Adjacency           | -0.08        | 0.46          | 0.04 |
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| 3             | -0.22   | 0.14    | -0.01   |
| 4             | -0.43   | 0.08    | -0.05   |
| 5             | -0.57   | 0.00    | -0.17   |
| 6             | -0.26   | 0.30    | -0.00   |
| 7             | -0.63   | 0.00    | -0.10   |
| 8             | -0.19   | 0.35    | 0.01    |
| 9             | -0.41   | 0.09    | -0.08   |
| 10            | -0.44   | 0.04    | -0.06   |

Table 2: SSTAR Bootstrap Values: Kedah
## 6.3 Kelantan

|                          | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------------|--------------|---------------|------|
| Own Counts Lag 1         | 0.38         | 1.25          | 0.83 |
| Own Counts Lag 2         | -0.15        | 0.24          | 0.01 |
| Own Counts Lag 3         | 0.00         | 0.38          | 0.05 |
| Own Counts Lag 4         | -0.07        | 0.54          | 0.05 |
| Own Counts Lag 5         | -0.16        | 0.55          | 0.03 |
| Own Counts Lag 6         | -0.45        | 0.00          | -0.04|
| Own Counts Lag 7         | -0.51        | 0.00          | -0.07|
| Own Counts Lag 8         | 0.00         | 0.00          | 0.00 |
| Own Counts Lag 9         | 0.00         | 0.15          | 0.01 |
| Own Counts Lag 10        | -0.03        | 0.03          | 0.00 |
| Absolute Humidity Lag 1  | -17.95       | 4.63          | -1.01|
| Absolute Humidity Lag 2  | -49.28       | 0.00          | -7.87|
| Absolute Humidity Lag 3  | -35.89       | 3.32          | -4.34|
| Absolute Humidity Lag 4  | -40.09       | 0.00          | -5.83|
| Absolute Humidity Lag 5  | -20.96       | 14.57         | -0.34|
| Absolute Humidity Lag 6  | -21.65       | 8.54          | -1.09|
| Absolute Humidity Lag 7  | -3.89        | 17.93         | 0.86 |
| Absolute Humidity Lag 8  | 0.00         | 41.65         | 5.79 |
| Absolute Humidity Lag 9  | -13.05       | 13.06         | -0.11|
| Absolute Humidity Lag 10 | 0.00         | 42.65         | 8.33 |
| Relative Humidity Lag 1  | -46.71       | 0.00          | -7.06|
| Relative Humidity Lag 2  | -10.01       | 0.00          | -0.30|
| Relative Humidity Lag 3  | -2.51        | 5.87          | 0.19 |
| Relative Humidity Lag 4  | -23.93       | 0.00          | -2.90|
| Relative Humidity Lag 5  | -11.41       | 11.76         | 0.08 |
| Relative Humidity Lag 6  | -18.33       | 3.20          | -0.93|
| Relative Humidity Lag 7  | 0.00         | 30.88         | 4.02 |
| Relative Humidity Lag 8  | 0.00         | 31.81         | 3.16 |
| Relative Humidity Lag 9  | -27.36       | 5.98          | -2.82|
| Relative Humidity Lag 10 | -16.01       | 1.57          | -1.12|
| Total Precipitation Lag 1| -21.95       | 27.78         | -1.39|
| Total Precipitation Lag 2| -16.81       | 18.38         | -0.27|
| Total Precipitation Lag 3| -24.04       | 11.22         | -2.44|
| Total Precipitation Lag 4| -21.36       | 27.11         | 0.18 |
| Total Precipitation Lag 5| -11.38       | 24.60         | 1.66 |
| Total Precipitation Lag 6| -26.76       | 13.09         | -2.63|
| Total Precipitation Lag 7| -15.73       | 36.71         | 3.93 |
| Total Precipitation Lag 8| -40.43       | 19.20         | -3.07|
| Total Precipitation Lag 9| -24.33       | 18.85         | -0.33|
| Total Precipitation Lag 10| -35.39      | 19.21         | -1.81|
| Temperature Lag 1        | 0.00         | 34.11         | 2.10 |
| Temperature Lag 2        | -24.91       | 0.00          | -1.61|
| Temperature Lag 3        | -23.10       | 0.00          | -2.17|
| Temperature Lag 4        | -3.36        | 7.86          | 0.11 |
| Temperature Lag 5        | -11.82       | 9.56          | -0.13|
| Temperature Lag 6        | -15.08       | 19.21         | 0.68 |
| Temperature Lag 7        | -38.09       | 0.00          | -3.45|
| Temperature Lag 8        | -3.85        | 9.16          | 0.26 |
| Temperature Lag 9        | -0.60        | 37.68         | 4.00 |
| Temperature Lag 10       | 0.00         | 57.10         | 13.03|
| Connectivity Lag 1       | 0.00         | 0.81          | 0.21 |
| Connectivity Lag 2       | 0.00         | 0.56          | 0.05 |
| Connectivity Lag 3       | -0.05        | 0.60          | 0.05 |
| Connectivity Lag 4       | -0.00        | 0.60          | 0.06 |
| Connectivity Lag 5       | 0.00         | 0.70          | 0.16 |
| Connectivity Lag 6       | 0.00         | 0.49          | 0.04 |
| Connectivity Lag 7       | -0.20        | 0.22          | 0.00 |
| Connectivity Lag 8       | -0.47        | 0.06          | -0.02|
| Connectivity Lag 9       | 0.00         | 0.41          | 0.03 |
| Connectivity Lag 10      | -0.53        | 0.00          | -0.04|
| Adjacency Lag 1         | -0.18        | 2.14          | 0.18 |
| Adjacency Lag 2         | -1.96        | 0.00          | -0.29|
| Adjacency Lag | Value 1  | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| Adjacency Lag 3 | -2.55  | 0.00    | -0.53   |
| Adjacency Lag 4 | -1.34  | 0.95    | -0.11   |
| Adjacency Lag 5 | -0.89  | 0.92    | -0.03   |
| Adjacency Lag 6 | -0.66  | 0.55    | -0.02   |
| Adjacency Lag 7 | -0.47  | 1.06    | 0.06    |
| Adjacency Lag 8 | -1.31  | 0.32    | -0.14   |
| Adjacency Lag 9 | -0.23  | 0.87    | 0.05    |
| Adjacency Lag 10 | -0.28  | 0.58    | 0.02    |

Table 3: SSTAR Bootstrap Values: Kelantan
### 6.4 Kuala Lumpur

|                          | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------------|--------------|---------------|------|
| **Own Counts Lag 1**     | 0.17         | 0.62          | 0.42 |
| **Own Counts Lag 2**     | -0.02        | 0.24          | 0.03 |
| **Own Counts Lag 3**     | 0.00         | 0.18          | 0.03 |
| **Own Counts Lag 4**     | -0.27        | 0.00          | -0.02|
| **Own Counts Lag 5**     | 0.00         | 0.30          | 0.08 |
| **Own Counts Lag 6**     | 0.00         | 0.32          | 0.08 |
| **Own Counts Lag 7**     | -0.14        | 0.03          | -0.01|
| **Own Counts Lag 8**     | -0.13        | 0.03          | -0.01|
| **Own Counts Lag 9**     | -0.16        | 0.05          | -0.01|
| **Own Counts Lag 10**    | -0.12        | 0.01          | -0.01|
| **Absolute Humidity Lag 1** | -0.81      | 15.37         | 0.84 |
| **Absolute Humidity Lag 2** | -25.83     | 2.88          | -2.55|
| **Absolute Humidity Lag 3** | -19.77     | 0.79          | -1.54|
| **Absolute Humidity Lag 4** | -29.54     | 0.00          | -3.46|
| **Absolute Humidity Lag 5** | 0.00        | 56.30         | 15.45|
| **Absolute Humidity Lag 6** | -12.74     | 8.64          | -0.10|
| **Absolute Humidity Lag 7** | -10.16      | 18.09         | 0.73 |
| **Absolute Humidity Lag 8** | -10.02      | 12.31         | 0.18 |
| **Absolute Humidity Lag 9** | -31.93      | 0.00          | -4.40|
| **Absolute Humidity Lag 10** | -12.47     | 8.09          | -0.64|
| **Relative Humidity Lag 1** | -32.10      | 0.00          | -5.15|
| **Relative Humidity Lag 2** | -17.27      | 0.00          | -1.44|
| **Relative Humidity Lag 3** | 0.00        | 20.90         | 1.54 |
| **Relative Humidity Lag 4** | -20.88      | 0.00          | -2.46|
| **Relative Humidity Lag 5** | 0.00        | 22.44         | 2.42 |
| **Relative Humidity Lag 6** | -13.26      | 8.86          | -0.37|
| **Relative Humidity Lag 7** | -3.26       | 17.41         | 1.48 |
| **Relative Humidity Lag 8** | -21.49      | 2.19          | -1.39|
| **Relative Humidity Lag 9** | -3.52       | 8.23          | 0.25 |
| **Relative Humidity Lag 10** | -21.96      | 0.00          | -3.23|
| **Total Precipitation Lag 1** | -18.53     | 7.81          | -2.52|
| **Total Precipitation Lag 2** | -8.74       | 19.36         | 1.77 |
| **Total Precipitation Lag 3** | -13.22     | 17.87         | 1.81 |
| **Total Precipitation Lag 4** | -16.53      | 3.09          | -2.04|
| **Total Precipitation Lag 5** | -11.38      | 11.13         | 0.29 |
| **Total Precipitation Lag 6** | -2.78       | 12.29         | 1.31 |
| **Total Precipitation Lag 7** | -3.42       | 20.45         | 4.48 |
| **Total Precipitation Lag 8** | -13.07      | 11.03         | -0.79|
| **Total Precipitation Lag 9** | -17.86      | 4.51          | -2.75|
| **Total Precipitation Lag 10** | -14.76      | 2.34          | -2.38|
| **Temperature Lag 1**    | 0.00         | 26.85         | 5.73 |
| **Temperature Lag 2**    | -12.12       | 8.16          | -0.11|
| **Temperature Lag 3**    | -32.37       | 0.00          | -6.36|
| **Temperature Lag 4**    | -9.83        | 8.91          | -0.14|
| **Temperature Lag 5**    | 0.00         | 14.94         | 1.17 |
| **Temperature Lag 6**    | -12.28       | 13.90         | 0.35 |
| **Temperature Lag 7**    | -12.88       | 9.26          | -0.57|
| **Temperature Lag 8**    | -3.81        | 18.66         | 1.34 |
| **Temperature Lag 9**    | -31.66       | 0.00          | -5.20|
| **Temperature Lag 10**   | -7.12        | 13.40         | 0.54 |
| **Connectivity Lag 1**   | 0.00         | 0.27          | 0.10 |
| **Connectivity Lag 2**   | 0.00         | 0.10          | 0.01 |
| **Connectivity Lag 3**   | 0.00         | 0.16          | 0.02 |
| **Connectivity Lag 4**   | 0.00         | 0.11          | 0.01 |
| **Connectivity Lag 5**   | 0.00         | 0.06          | 0.00 |
| **Connectivity Lag 6**   | 0.00         | 0.11          | 0.01 |
| **Connectivity Lag 7**   | -0.10        | 0.00          | -0.01|
| **Connectivity Lag 8**   | 0.00         | 0.09          | 0.01 |
| **Connectivity Lag 9**   | 0.00         | 0.05          | 0.00 |
| **Connectivity Lag 10**  | -0.04        | 0.00          | -0.00|
| **Adjacency Lag 1**      | 0.00         | 0.18          | 0.02 |
| **Adjacency Lag 2**      | -0.17        | 0.00          | -0.01|
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|--------------|---------|---------|---------|
| 3            | -0.01   | 0.00    | -0.00   |
| 4            | -0.05   | 0.01    | -0.00   |
| 5            | -0.01   | 0.06    | 0.00    |
| 6            | -0.07   | 0.00    | -0.00   |
| 7            | -0.18   | 0.00    | -0.02   |
| 8            | -0.02   | 0.03    | 0.00    |
| 9            | -0.03   | 0.00    | -0.00   |
| 10           | -0.02   | 0.05    | 0.00    |

Table 4: SSTAR Bootstrap Values: Kuala Lumpur
## 6.5 Labuan

|                          | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------------|--------------|---------------|------|
| Own Counts Lag 1         | 0.29         | 0.98          | 0.65 |
| Own Counts Lag 2         | -0.37        | 0.13          | -0.04|
| Own Counts Lag 3         | -0.10        | 0.26          | 0.03 |
| Own Counts Lag 4         | -0.08        | 0.25          | 0.03 |
| Own Counts Lag 5         | -0.25        | 0.18          | 0.01 |
| Own Counts Lag 6         | -0.27        | 0.18          | -0.01|
| Own Counts Lag 7         | -0.16        | 0.30          | 0.01 |
| Own Counts Lag 8         | -0.48        | 0.00          | -0.09|
| Own Counts Lag 9         | -0.06        | 0.23          | 0.02 |
| Own Counts Lag 10        | -0.11        | 0.12          | 0.00 |
| Absolute Humidity Lag 1  | -1.28        | 3.10          | 0.13 |
| Absolute Humidity Lag 2  | 0.00         | 3.30          | 0.40 |
| Absolute Humidity Lag 3  | -7.62        | 0.00          | -1.38|
| Absolute Humidity Lag 4  | -4.86        | 0.76          | -0.51|
| Absolute Humidity Lag 5  | -4.42        | 0.00          | -0.62|
| Absolute Humidity Lag 6  | -1.54        | 3.87          | 0.31 |
| Absolute Humidity Lag 7  | -3.48        | 2.54          | -0.06|
| Absolute Humidity Lag 8  | -1.38        | 4.00          | 0.46 |
| Absolute Humidity Lag 9  | -7.67        | 0.00          | -1.17|
| Absolute Humidity Lag 10 | 0.00         | 4.38          | 0.48 |
| Relative Humidity Lag 1  | -1.13        | 4.74          | 0.69 |
| Relative Humidity Lag 2  | 0.00         | 6.28          | 1.13 |
| Relative Humidity Lag 3  | -1.38        | 0.75          | -0.04|
| Relative Humidity Lag 4  | -3.20        | 1.54          | -0.20|
| Relative Humidity Lag 5  | -7.09        | 0.00          | -1.39|
| Relative Humidity Lag 6  | -1.01        | 3.62          | 0.25 |
| Relative Humidity Lag 7  | -3.37        | 3.81          | 0.06 |
| Relative Humidity Lag 8  | -5.59        | 1.93          | -0.46|
| Relative Humidity Lag 9  | -3.66        | 0.12          | -0.34|
| Relative Humidity Lag 10 | -2.16        | 0.96          | -0.08|
| Total Precipitation Lag 1| -6.29        | 1.72          | -0.84|
| Total Precipitation Lag 2| -8.00        | 0.00          | -1.66|
| Total Precipitation Lag 3| -12.84       | 0.00          | -2.89|
| Total Precipitation Lag 4| -8.34        | 0.46          | -1.38|
| Total Precipitation Lag 5| -3.10        | 4.16          | 0.32 |
| Total Precipitation Lag 6| -6.96        | 0.00          | -2.07|
| Total Precipitation Lag 7| 0.00         | 6.34          | 1.12 |
| Total Precipitation Lag 8| -3.61        | 4.41          | 0.18 |
| Total Precipitation Lag 9| -5.55        | 1.36          | -0.49|
| Total Precipitation Lag 10| -7.30       | 0.00          | -1.63|
| Temperature Lag 1        | -2.74        | 1.04          | -0.17|
| Temperature Lag 2        | -2.74        | 0.00          | -0.13|
| Temperature Lag 3        | -7.93        | 0.00          | -0.99|
| Temperature Lag 4        | -3.16        | 1.19          | -0.16|
| Temperature Lag 5        | 0.00         | 3.97          | 0.23 |
| Temperature Lag 6        | -2.89        | 3.22          | 0.09 |
| Temperature Lag 7        | -2.69        | 1.79          | -0.10|
| Temperature Lag 8        | 0.00         | 5.69          | 0.73 |
| Temperature Lag 9        | -3.03        | 0.30          | -0.19|
| Temperature Lag 10       | 0.00         | 4.69          | 0.55 |
| Connectivity Lag 1       | -0.03        | 0.02          | -0.00|
| Connectivity Lag 2       | -0.11        | 0.00          | -0.02|
| Connectivity Lag 3       | -0.04        | 0.00          | -0.00|
| Connectivity Lag 4       | -0.14        | 0.00          | -0.04|
| Connectivity Lag 5       | 0.00         | 0.05          | 0.00 |
| Connectivity Lag 6       | 0.00         | 0.08          | 0.01 |
| Connectivity Lag 7       | -0.08        | 0.00          | -0.01|
| Connectivity Lag 8       | -0.04        | 0.00          | -0.00|
| Connectivity Lag 9       | -0.04        | 0.00          | -0.00|
| Connectivity Lag 10      | -0.19        | 0.00          | -0.03|
| Adjacency Lag 1         | -0.05        | 0.00          | -0.00|
| Adjacency Lag 2         | -0.06        | 0.00          | -0.00|
| Adjacency Lag | Bootstrap Value | Bootstrap Value | Bootstrap Value |
|---------------|-----------------|-----------------|-----------------|
| 3             | 0.00            | 0.02            | 0.00            |
| 4             | 0.00            | 0.00            | -0.00           |
| 5             | 0.00            | 0.11            | 0.01            |
| 6             | 0.00            | 0.00            | 0.00            |
| 7             | 0.00            | 0.01            | 0.00            |
| 8             | 0.00            | 0.01            | 0.00            |
| 9             | 0.00            | 0.07            | 0.01            |
| 10            | -0.03           | 0.00            | -0.00           |

Table 5: SSTAR Bootstrap Values: Labuan
### 6.6 Melaka

|                          | 2.5 Quantile | 97.5 Quantile | Mean  |
|--------------------------|--------------|---------------|-------|
| Own Counts Lag 1         | 0.18         | 0.99          | 0.68  |
| Own Counts Lag 2         | -0.21        | 0.42          | 0.03  |
| Own Counts Lag 3         | -0.29        | 0.25          | -0.02 |
| Own Counts Lag 4         | -0.43        | 0.01          | -0.08 |
| Own Counts Lag 5         | 0.00         | 0.46          | 0.13  |
| Own Counts Lag 6         | 0.00         | 0.51          | 0.11  |
| Own Counts Lag 7         | -0.25        | 0.15          | -0.01 |
| Own Counts Lag 8         | -0.11        | 0.14          | 0.00  |
| Own Counts Lag 9         | -0.18        | 0.05          | -0.01 |
| Own Counts Lag 10        | -0.20        | 0.01          | -0.03 |
| Absolute Humidity Lag 1  | -11.29       | 15.06         | 0.38  |
| Absolute Humidity Lag 2  | -17.13       | 5.12          | -1.32 |
| Absolute Humidity Lag 3  | -24.23       | 5.06          | -2.90 |
| Absolute Humidity Lag 4  | -15.13       | 5.71          | -0.99 |
| Absolute Humidity Lag 5  | -22.53       | 0.00          | -2.69 |
| Absolute Humidity Lag 6  | -22.91       | 0.00          | -2.39 |
| Absolute Humidity Lag 7  | 0.00         | 40.08         | 5.80  |
| Absolute Humidity Lag 8  | 0.00         | 44.95         | 8.61  |
| Absolute Humidity Lag 9  | -8.27        | 15.14         | 0.50  |
| Absolute Humidity Lag 10 | -4.35        | 4.74          | -0.34 |
| Relative Humidity Lag 1  | -8.21        | 15.55         | 0.39  |
| Relative Humidity Lag 2  | -18.42       | 2.34          | -2.58 |
| Relative Humidity Lag 3  | -28.28       | 0.00          | -5.44 |
| Relative Humidity Lag 4  | 0.00         | 12.71         | 1.25  |
| Relative Humidity Lag 5  | -2.96        | 8.21          | 0.35  |
| Relative Humidity Lag 6  | -6.04        | 4.18          | -0.16 |
| Relative Humidity Lag 7  | 0.00         | 21.51         | 4.65  |
| Relative Humidity Lag 8  | -7.71        | 0.00          | -0.47 |
| Relative Humidity Lag 9  | -9.29        | 5.13          | -0.24 |
| Relative Humidity Lag 10 | -9.28        | 9.27          | 0.07  |
| Total Precipitation Lag 1| -29.12       | 4.14          | -4.65 |
| Total Precipitation Lag 2| -16.25       | 13.45         | -0.95 |
| Total Precipitation Lag 3| -23.74       | 17.05         | -0.94 |
| Total Precipitation Lag 4| -39.37       | 1.51          | -8.14 |
| Total Precipitation Lag 5| -28.76       | 7.72          | -5.95 |
| Total Precipitation Lag 6| -21.01       | 10.49         | -1.80 |
| Total Precipitation Lag 7| -33.26       | 8.83          | -5.69 |
| Total Precipitation Lag 8| -34.75       | 22.64         | -3.24 |
| Total Precipitation Lag 9| -26.58       | 6.26          | -4.74 |
| Total Precipitation Lag 10| -33.25      | 0.00          | -8.65 |
| Temperature Lag 1        | -5.04        | 3.04          | -0.12 |
| Temperature Lag 2        | -4.45        | 3.62          | -0.08 |
| Temperature Lag 3        | -0.14        | 7.37          | 0.43  |
| Temperature Lag 4        | -18.27       | 0.00          | -2.83 |
| Temperature Lag 5        | -18.39       | 0.00          | -2.69 |
| Temperature Lag 6        | -12.67       | 0.00          | -1.37 |
| Temperature Lag 7        | -8.44        | 1.62          | -0.67 |
| Temperature Lag 8        | 0.00         | 29.58         | 9.55  |
| Temperature Lag 9        | -12.92       | 16.97         | 1.12  |
| Temperature Lag 10       | -10.17       | 9.49          | -0.05 |
| Connectivity Lag 1       | -0.06        | 0.16          | 0.01  |
| Connectivity Lag 2       | 0.00         | 0.03          | 0.00  |
| Connectivity Lag 3       | 0.00         | 0.21          | 0.03  |
| Connectivity Lag 4       | 0.00         | 0.13          | 0.01  |
| Connectivity Lag 5       | 0.00         | 0.31          | 0.04  |
| Connectivity Lag 6       | 0.00         | 0.09          | 0.01  |
| Connectivity Lag 7       | -0.00        | 0.08          | 0.00  |
| Connectivity Lag 8       | 0.00         | 0.14          | 0.01  |
| Connectivity Lag 9       | 0.00         | 0.07          | 0.00  |
| Connectivity Lag 10      | -0.13        | 0.00          | -0.01 |
| Adjacency Lag 1         | -0.07        | 0.01          | -0.00 |
| Adjacency Lag 2         | -0.14        | 0.00          | -0.02 |
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| 3             | -0.01   | 0.02    | -0.00   |
| 4             | -0.00   | 0.05    | 0.00    |
| 5             | 0.00    | 0.16    | 0.02    |
| 6             | -0.01   | 0.03    | 0.00    |
| 7             | -0.07   | 0.00    | -0.00   |
| 8             | -0.04   | 0.00    | -0.00   |
| 9             | -0.03   | 0.00    | -0.00   |
| 10            | -0.05   | 0.02    | -0.00   |

Table 6: SSTAR Bootstrap Values: Melaka
|                     | 2.5 Quantile | 97.5 Quantile | Mean |
|---------------------|--------------|---------------|------|
| Own Counts Lag 1    | 0.25         | 0.75          | 0.50 |
| Own Counts Lag 2    | -0.22        | 0.28          | 0.03 |
| Own Counts Lag 3    | 0.00         | 0.45          | 0.15 |
| Own Counts Lag 4    | -0.06        | 0.29          | 0.05 |
| Own Counts Lag 5    | -0.05        | 0.23          | 0.03 |
| Own Counts Lag 6    | -0.26        | 0.06          | -0.03|
| Own Counts Lag 7    | -0.20        | 0.01          | -0.03|
| Own Counts Lag 8    | -0.18        | 0.03          | -0.02|
| Own Counts Lag 9    | 0.00         | 0.22          | 0.04 |
| Own Counts Lag 10   | -0.07        | 0.13          | 0.02 |
| Absolute Humidity Lag 1 | 0.00        | 28.09         | 9.37 |
| Absolute Humidity Lag 2 | -8.89       | 13.26         | 0.76 |
| Absolute Humidity Lag 3 | 0.00        | 24.64         | 4.90 |
| Absolute Humidity Lag 4 | -15.87      | 1.90          | -1.39|
| Absolute Humidity Lag 5 | -5.45       | 12.01         | 0.62 |
| Absolute Humidity Lag 6 | -19.26      | 1.81          | -2.18|
| Absolute Humidity Lag 7 | 0.00         | 22.78         | 2.64 |
| Absolute Humidity Lag 8 | -15.55      | 3.01          | -1.26|
| Absolute Humidity Lag 9 | -3.28       | 13.79         | 0.71 |
| Absolute Humidity Lag 10 | -19.77      | 0.00          | -5.36|
| Relative Humidity Lag 1 | 0.00         | 8.47          | 0.51 |
| Relative Humidity Lag 2 | -2.80        | 14.20         | 1.17 |
| Relative Humidity Lag 3 | -0.87        | 11.76         | 0.80 |
| Relative Humidity Lag 4 | -3.59        | 11.95         | 0.77 |
| Relative Humidity Lag 5 | -11.70       | 2.94          | -0.73|
| Relative Humidity Lag 6 | -24.22       | 1.30          | -3.43|
| Relative Humidity Lag 7 | 0.00         | 27.87         | 6.84 |
| Relative Humidity Lag 8 | -11.96       | 11.34         | 0.16 |
| Relative Humidity Lag 9 | -4.56        | 22.75         | 2.11 |
| Relative Humidity Lag 10 | -7.24        | 5.01          | -0.16|
| Total Precipitation Lag 1 | -13.25       | 6.49          | -1.64|
| Total Precipitation Lag 2 | -13.37       | 4.57          | -1.53|
| Total Precipitation Lag 3 | -8.18        | 13.39         | 1.42 |
| Total Precipitation Lag 4 | -13.56       | 6.37          | -1.16|
| Total Precipitation Lag 5 | -13.58       | 5.13          | -2.13|
| Total Precipitation Lag 6 | -5.38        | 13.27         | 1.34 |
| Total Precipitation Lag 7 | -7.72        | 16.92         | 2.62 |
| Total Precipitation Lag 8 | -5.29        | 18.86         | 3.92 |
| Total Precipitation Lag 9 | -17.63       | 2.82          | -2.73|
| Total Precipitation Lag 10 | 0.00         | 26.84         | 8.70 |
| Temperature Lag 1    | 0.00         | 16.62         | 3.50 |
| Temperature Lag 2    | -9.49        | 11.19         | 0.42 |
| Temperature Lag 3    | 0.00         | 15.54         | 1.84 |
| Temperature Lag 4    | -12.36       | 2.30          | -0.98|
| Temperature Lag 5    | -1.56        | 18.35         | 1.79 |
| Temperature Lag 6    | -4.55        | 11.17         | 0.65 |
| Temperature Lag 7    | -16.17       | 2.00          | -1.27|
| Temperature Lag 8    | -13.16       | 8.99          | -0.59|
| Temperature Lag 9    | -11.67       | 10.92         | -0.24|
| Temperature Lag 10   | -17.60       | 0.00          | -4.77|
| Connectivity Lag 1   | -0.03        | 0.01          | -0.00|
| Connectivity Lag 2   | 0.00         | 0.06          | 0.01 |
| Connectivity Lag 3   | 0.00         | 0.08          | 0.01 |
| Connectivity Lag 4   | 0.00         | 0.05          | 0.00 |
| Connectivity Lag 5   | -0.03        | 0.00          | -0.00|
| Connectivity Lag 6   | 0.00         | 0.12          | 0.01 |
| Connectivity Lag 7   | 0.00         | 0.08          | 0.01 |
| Connectivity Lag 8   | 0.00         | 0.19          | 0.04 |
| Connectivity Lag 9   | 0.00         | 0.25          | 0.04 |
| Connectivity Lag 10  | 0.00         | 0.01          | 0.00 |
| Adjacency Lag 1     | -0.07        | 0.01          | -0.00|
| Adjacency Lag 2     | 0.00         | 0.05          | 0.00 |
| Adjacency Lag 3     | -0.01        | 0.00          | -0.00|
| Adjacency Lag 4     | -0.06        | 0.00          | -0.01|
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| Adjacency Lag 5 | -0.08   | 0.00    | -0.01   |
| Adjacency Lag 6 | 0.00    | 0.02    | 0.00    |
| Adjacency Lag 7 | -0.05   | 0.00    | -0.00   |
| Adjacency Lag 8 | 0.00    | 0.00    | 0.00    |
| Adjacency Lag 9 | 0.00    | 0.00    | -0.00   |
| Adjacency Lag 10| -0.08   | 0.00    | -0.01   |

Table 7: SSTAR Bootstrap Values: Negeri Sembilan
|                          | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------------|--------------|---------------|------|
| Own Counts Lag 1         | 0.12         | 0.57          | 0.36 |
| Own Counts Lag 2         | 0.00         | 0.54          | 0.23 |
| Own Counts Lag 3         | -0.07        | 0.20          | 0.02 |
| Own Counts Lag 4         | 0.00         | 0.29          | 0.07 |
| Own Counts Lag 5         | -0.31        | 0.00          | -0.06|
| Own Counts Lag 6         | -0.26        | 0.11          | -0.01|
| Own Counts Lag 7         | -0.06        | 0.18          | 0.01 |
| Own Counts Lag 8         | -0.06        | 0.17          | 0.01 |
| Own Counts Lag 9         | -0.15        | 0.15          | 0.00 |
| Own Counts Lag 10        | -0.27        | 0.00          | -0.05|
| Absolute Humidity Lag 1  | 0.00         | 18.52         | 3.42 |
| Absolute Humidity Lag 2  | 0.00         | 23.94         | 3.86 |
| Absolute Humidity Lag 3  | -23.27       | 0.42          | -2.74|
| Absolute Humidity Lag 4  | 0.00         | 14.67         | 1.77 |
| Absolute Humidity Lag 5  | -15.43       | 4.54          | -0.93|
| Absolute Humidity Lag 6  | 0.00         | 13.43         | 1.37 |
| Absolute Humidity Lag 7  | -13.03       | 3.55          | -0.86|
| Absolute Humidity Lag 8  | 0.00         | 17.76         | 3.04 |
| Absolute Humidity Lag 9  | 0.00         | 10.65         | 1.37 |
| Absolute Humidity Lag 10 | -7.45        | 1.85          | -0.38|
| Relative Humidity Lag 1  | -12.80       | 0.00          | -1.14|
| Relative Humidity Lag 2  | 0.00         | 15.12         | 2.07 |
| Relative Humidity Lag 3  | -13.83       | 0.00          | -1.80|
| Relative Humidity Lag 4  | -10.17       | 4.05          | -0.51|
| Relative Humidity Lag 5  | -12.98       | 2.75          | -1.18|
| Relative Humidity Lag 6  | -10.30       | 0.00          | -0.93|
| Relative Humidity Lag 7  | -3.40        | 9.98          | 0.60 |
| Relative Humidity Lag 8  | 0.00         | 22.42         | 7.28 |
| Relative Humidity Lag 9  | -1.99        | 12.24         | 1.18 |
| Relative Humidity Lag 10 | -6.14        | 8.20          | 0.24 |
| Total Precipitation Lag 1| -25.40       | 0.03          | -4.44|
| Total Precipitation Lag 2| 0.00         | 28.41         | 7.53 |
| Total Precipitation Lag 3| -13.88       | 12.29         | -1.01|
| Total Precipitation Lag 4| 0.00         | 25.11         | 4.39 |
| Total Precipitation Lag 5| -17.40       | 4.99          | -1.80|
| Total Precipitation Lag 6| -7.16        | 10.00         | 0.35 |
| Total Precipitation Lag 7| -17.22       | 2.35          | -2.00|
| Total Precipitation Lag 8| -2.67        | 15.51         | 1.21 |
| Total Precipitation Lag 9| 0.00         | 34.04         | 9.10 |
| Total Precipitation Lag 10| -2.14        | 21.84         | 3.13 |
| Temperature Lag 1         | 0.00        | 18.33         | 3.53 |
| Temperature Lag 2         | -0.44        | 1.66          | 0.08 |
| Temperature Lag 3         | -1.56        | 2.75          | 0.13 |
| Temperature Lag 4         | 0.00         | 13.12         | 1.30 |
| Temperature Lag 5         | -3.73        | 8.22          | 0.41 |
| Temperature Lag 6         | 0.00         | 23.07         | 5.14 |
| Temperature Lag 7         | -13.05       | 5.50          | -0.41|
| Temperature Lag 8         | -5.46        | 0.00          | -0.27|
| Temperature Lag 9         | 0.00         | 9.61          | 0.67 |
| Temperature Lag 10        | -6.72        | 4.11          | -0.23|
| Connectivity Lag 1        | 0.00         | 0.17          | 0.02 |
| Connectivity Lag 2        | -0.18        | 0.00          | -0.01|
| Connectivity Lag 3        | 0.00         | 0.13          | 0.02 |
| Connectivity Lag 4        | 0.00         | 0.10          | 0.01 |
| Connectivity Lag 5        | 0.00         | 0.09          | 0.01 |
| Connectivity Lag 6        | 0.00         | 0.13          | 0.02 |
| Connectivity Lag 7        | 0.00         | 0.23          | 0.04 |
| Connectivity Lag 8        | 0.00         | 0.11          | 0.01 |
| Connectivity Lag 9        | 0.00         | 0.10          | 0.01 |
| Connectivity Lag 10       | -0.10        | 0.02          | -0.00|
| Adjacency Lag 1          | -0.08        | 0.44          | 0.05 |
| Adjacency Lag 2          | -0.57        | 0.00          | -0.08|
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| Adjacency Lag 3 | -0.31   | 0.15    | -0.02   |
| Adjacency Lag 4 | -0.57   | 0.04    | -0.06   |
| Adjacency Lag 5 | 0.00    | 0.92    | 0.15    |
| Adjacency Lag 6 | 0.00    | 0.85    | 0.36    |
| Adjacency Lag 7 | -0.13   | 0.38    | 0.03    |
| Adjacency Lag 8 | -0.24   | 0.08    | -0.01   |
| Adjacency Lag 9 | -0.10   | 0.38    | 0.05    |
| Adjacency Lag 10| -0.05   | 0.26    | 0.02    |

Table 8: SSTAR Bootstrap Values: Pahang
### 6.8 Perak

|                        | 2.5 Quantile | 97.5 Quantile | Mean |
|------------------------|--------------|---------------|------|
| Own Counts Lag 1       | 0.00         | 0.57          | 0.28 |
| Own Counts Lag 2       | 0.00         | 0.32          | 0.11 |
| Own Counts Lag 3       | -0.03        | 0.26          | 0.04 |
| Own Counts Lag 4       | 0.00         | 0.51          | 0.26 |
| Own Counts Lag 5       | -0.16        | 0.17          | 0.00 |
| Own Counts Lag 6       | -0.15        | 0.19          | 0.01 |
| Own Counts Lag 7       | -0.02        | 0.21          | 0.02 |
| Own Counts Lag 8       | -0.09        | 0.20          | 0.02 |
| Own Counts Lag 9       | -0.03        | 0.29          | 0.04 |
| Own Counts Lag 10      | -0.11        | 0.19          | 0.01 |
| Absolute Humidity Lag 1| -22.23       | 15.68         | -0.51|
| Absolute Humidity Lag 2| -23.14       | 11.05         | -0.96|
| Absolute Humidity Lag 3| -21.95       | 14.94         | -1.06|
| Absolute Humidity Lag 4| -2.50        | 24.28         | 1.82 |
| Absolute Humidity Lag 5| -23.45       | 1.54          | -1.97|
| Absolute Humidity Lag 6| 0.00         | 36.69         | 5.63 |
| Absolute Humidity Lag 7| -18.85       | 12.21         | -0.54|
| Absolute Humidity Lag 8| -11.13       | 6.61          | -0.26|
| Absolute Humidity Lag 9| 0.00         | 22.15         | 2.17 |
| Absolute Humidity Lag 10| -30.57       | 0.01          | -2.56|
| Relative Humidity Lag 1| -25.03       | 5.16          | -2.03|
| Relative Humidity Lag 2| -26.53       | 0.01          | -1.66|
| Relative Humidity Lag 3| -20.00       | 2.89          | -1.56|
| Relative Humidity Lag 4| -9.14        | 15.27         | 0.29 |
| Relative Humidity Lag 5| -44.89       | 0.00          | -9.78|
| Relative Humidity Lag 6| -1.94        | 9.53          | 0.37 |
| Relative Humidity Lag 7| -16.74       | 0.90          | -1.45|
| Relative Humidity Lag 8| -0.01        | 20.56         | 2.29 |
| Relative Humidity Lag 9| -32.39       | 0.00          | -1.99|
| Relative Humidity Lag 10| -17.92      | 3.58          | -0.91|
| Total Precipitation Lag 1| -21.97      | 3.06          | -3.58|
| Total Precipitation Lag 2| 0.00        | 38.59         | 9.40 |
| Total Precipitation Lag 3| -15.07      | 7.79          | -0.77|
| Total Precipitation Lag 4| -3.24       | 25.05         | 4.42 |
| Total Precipitation Lag 5| -10.89      | 24.36         | 1.78 |
| Total Precipitation Lag 6| -14.88      | 13.80         | -0.31|
| Total Precipitation Lag 7| -7.65        | 21.21         | 1.66 |
| Total Precipitation Lag 8| -14.01      | 14.55         | 0.75 |
| Total Precipitation Lag 9| -0.66        | 30.48         | 5.32 |
| Total Precipitation Lag 10| 0.00        | 45.19         | 10.68|
| Temperature Lag 1      | 0.00         | 12.49         | 0.67 |
| Temperature Lag 2      | -11.91       | 11.72         | 0.03 |
| Temperature Lag 3      | -3.80        | 14.49         | 0.58 |
| Temperature Lag 4      | -2.86        | 9.59          | 0.37 |
| Temperature Lag 5      | 0.00         | 17.09         | 1.81 |
| Temperature Lag 6      | 0.00         | 14.36         | 0.96 |
| Temperature Lag 7      | 0.00         | 16.36         | 1.48 |
| Temperature Lag 8      | -25.85       | 0.67          | -2.34|
| Temperature Lag 9      | 0.00         | 36.31         | 4.22 |
| Temperature Lag 10     | -12.01       | 0.00          | -0.88|
| Connectivity Lag 1     | 0.00         | 0.30          | 0.06 |
| Connectivity Lag 2     | -0.39        | 0.00          | -0.03|
| Connectivity Lag 3     | 0.00         | 0.31          | 0.03 |
| Connectivity Lag 4     | -0.34        | 0.00          | -0.02|
| Connectivity Lag 5     | 0.00         | 0.13          | 0.01 |
| Connectivity Lag 6     | -0.11        | 0.03          | -0.00|
| Connectivity Lag 7     | -0.11        | 0.07          | -0.01|
| Connectivity Lag 8     | 0.00         | 0.18          | 0.02 |
| Connectivity Lag 9     | 0.00         | 0.41          | 0.06 |
| Connectivity Lag 10    | 0.00         | 0.13          | 0.01 |
| Adjacency Lag 1       | -0.13        | 0.04          | -0.01|
| Adjacency Lag 2       | -0.24        | 0.00          | -0.02|
| Adjacency Lag 3 | -0.04 | 0.01 | -0.00 |
| Adjacency Lag 4 | 0.00  | 0.14 | 0.01  |
| Adjacency Lag 5 | -0.08 | 0.00 | -0.00 |
| Adjacency Lag 6 | -0.21 | 0.00 | -0.03 |
| Adjacency Lag 7 | -0.12 | 0.00 | -0.01 |
| Adjacency Lag 8 | -0.13 | 0.02 | -0.01 |
| Adjacency Lag 9 | -0.07 | 0.00 | -0.00 |
| Adjacency Lag 10| -0.15 | 0.00 | -0.02 |

Table 9: SSTAR Bootstrap Values: Perak
|                    | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------|--------------|---------------|------|
| Own Counts Lag 1   | -0.12        | 0.19          | 0.02 |
| Own Counts Lag 2   | -0.25        | 0.13          | -0.03|
| Own Counts Lag 3   | -0.23        | 0.10          | -0.03|
| Own Counts Lag 4   | -0.11        | 0.24          | 0.04 |
| Own Counts Lag 5   | 0.00         | 0.40          | 0.13 |
| Own Counts Lag 6   | -0.11        | 0.26          | 0.02 |
| Own Counts Lag 7   | -0.26        | 0.08          | -0.04|
| Own Counts Lag 8   | -0.08        | 0.29          | 0.05 |
| Own Counts Lag 9   | -0.17        | 0.09          | -0.02|
| Own Counts Lag 10  | -0.27        | 0.04          | -0.07|
| Absolute Humidity  | -1.83        | 2.10          | 0.02 |
| Absolute Humidity  | -2.92        | 3.83          | 0.11 |
| Absolute Humidity  | -1.84        | 1.38          | 0.01 |
| Absolute Humidity  | -1.75        | 3.07          | 0.14 |
| Absolute Humidity  | -1.42        | 5.06          | 0.45 |
| Absolute Humidity  | -7.00        | 0.00          | -0.67|
| Absolute Humidity  | -2.22        | 1.50          | -0.00|
| Absolute Humidity  | 0.00         | 6.32          | 1.04 |
| Absolute Humidity  | 0.00         | 3.67          | 0.56 |
| Absolute Humidity  | 0.00         | 4.70          | 0.72 |
| Relative Humidity  | 0.00         | 4.31          | 0.81 |
| Relative Humidity  | -3.69        | 0.33          | -0.23|
| Relative Humidity  | -2.96        | 0.00          | -0.24|
| Relative Humidity  | -1.00        | 0.66          | -0.01|
| Relative Humidity  | -0.65        | 0.85          | 0.01 |
| Relative Humidity  | -3.39        | 0.00          | -0.24|
| Relative Humidity  | 0.00         | 2.44          | 0.19 |
| Relative Humidity  | 0.00         | 1.27          | 0.07 |
| Relative Humidity  | -0.87        | 0.00          | -0.05|
| Relative Humidity  | 0.00         | 0.15          | -0.00|
| Total Precipitation| -2.48        | 1.76          | -0.08|
| Total Precipitation| -1.22        | 2.65          | 0.22 |
| Total Precipitation| -3.82        | 0.00          | -0.86|
| Total Precipitation| -2.49        | 1.29          | -0.20|
| Total Precipitation| -3.58        | 0.22          | -0.61|
| Total Precipitation| -2.97        | 2.27          | -0.13|
| Total Precipitation| -2.85        | 3.77          | 0.56 |
| Total Precipitation| -2.18        | 2.54          | 0.21 |
| Total Precipitation| 0.00         | 5.35          | 1.26 |
| Total Precipitation| -0.21        | 4.48          | 1.06 |
| Temperature Lag 1  | -7.33        | 0.00          | -1.72|
| Temperature Lag 2  | -1.13        | 1.25          | -0.01|
| Temperature Lag 3  | 0.00         | 2.85          | 0.22 |
| Temperature Lag 4  | -2.30        | 0.92          | -0.08|
| Temperature Lag 5  | -0.00        | 3.06          | 0.30 |
| Temperature Lag 6  | -0.47        | 2.26          | 0.13 |
| Temperature Lag 7  | -2.99        | 0.00          | -0.31|
| Temperature Lag 8  | 0.00         | 4.30          | 0.49 |
| Temperature Lag 9  | 0.00         | 5.10          | 0.87 |
| Temperature Lag 10 | 0.00         | 5.67          | 0.72 |
| Connectivity Lag 1 | 0.00         | 0.12          | 0.03 |
| Connectivity Lag 2 | -0.01        | 0.03          | 0.00 |
| Connectivity Lag 3 | -0.06        | 0.00          | -0.00|
| Connectivity Lag 4 | 0.00         | 0.13          | 0.03 |
| Connectivity Lag 5 | -0.05        | 0.02          | -0.00|
| Connectivity Lag 6 | -0.13        | 0.00          | -0.01|
| Connectivity Lag 7 | 0.00         | 0.14          | 0.02 |
| Connectivity Lag 8 | 0.00         | 0.17          | 0.05 |
| Connectivity Lag 9 | 0.00         | 0.03          | 0.00 |
| Connectivity Lag 10| -0.06        | 0.00          | -0.00|
| Adjacency Lag 1    | -0.12        | 0.07          | -0.00|
| Adjacency Lag 2    | -0.06        | 0.08          | 0.00 |
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| Adjacency Lag 3 | -0.18   | 0.00    | -0.03   |
| Adjacency Lag 4 | -0.01   | 0.24    | 0.04    |
| Adjacency Lag 5 | -0.07   | 0.10    | 0.01    |
| Adjacency Lag 6 | -0.15   | 0.03    | -0.02   |
| Adjacency Lag 7 | -0.13   | 0.08    | -0.01   |
| Adjacency Lag 8 | -0.04   | 0.12    | 0.02    |
| Adjacency Lag 9 | -0.02   | 0.11    | 0.01    |
| Adjacency Lag 10 | -0.14   | 0.01    | -0.02   |

Table 10: SSTAR Bootstrap Values: Perlis
6.10 Pulau Pinang

|                                  | 2.5 Quantile | 97.5 Quantile | Mean  |
|----------------------------------|--------------|---------------|-------|
| Own Counts Lag 1                 | 0.09         | 0.65          | 0.35  |
| Own Counts Lag 2                 | 0.00         | 0.37          | 0.11  |
| Own Counts Lag 3                 | -0.13        | 0.24          | 0.01  |
| Own Counts Lag 4                 | 0.00         | 0.36          | 0.12  |
| Own Counts Lag 5                 | -0.03        | 0.24          | 0.05  |
| Own Counts Lag 6                 | 0.00         | 0.39          | 0.13  |
| Own Counts Lag 7                 | -0.33        | 0.02          | -0.03 |
| Own Counts Lag 8                 | -0.01        | 0.27          | 0.03  |
| Own Counts Lag 9                 | -0.08        | 0.31          | 0.03  |
| Own Counts Lag 10                | -0.35        | 0.02          | -0.05 |
| Absolute Humidity Lag 1          | 0.00         | 36.23         | 7.88  |
| Absolute Humidity Lag 2          | -8.03        | 21.80         | 1.64  |
| Absolute Humidity Lag 3          | -19.70       | 7.36          | -1.82 |
| Absolute Humidity Lag 4          | -32.05       | 2.27          | -3.75 |
| Absolute Humidity Lag 5          | -24.55       | 13.56         | -1.25 |
| Absolute Humidity Lag 6          | -21.39       | 16.72         | -0.45 |
| Absolute Humidity Lag 7          | -10.13       | 22.45         | 1.43  |
| Absolute Humidity Lag 8          | -7.79        | 19.66         | 1.66  |
| Absolute Humidity Lag 9          | 0.00         | 39.92         | 6.76  |
| Absolute Humidity Lag 10         | -21.61       | 4.91          | -1.49 |
| Relative Humidity Lag 1          | -3.82        | 1.31          | -0.17 |
| Relative Humidity Lag 2          | -24.51       | 1.52          | -2.49 |
| Relative Humidity Lag 3          | -13.23       | 18.49         | -0.17 |
| Relative Humidity Lag 4          | -24.68       | 0.00          | -5.29 |
| Relative Humidity Lag 5          | -33.18       | 0.00          | -7.56 |
| Relative Humidity Lag 6          | -1.28        | 18.66         | 1.79  |
| Relative Humidity Lag 7          | -17.42       | 4.47          | -1.38 |
| Relative Humidity Lag 8          | 0.00         | 25.26         | 4.16  |
| Relative Humidity Lag 9          | 0.00         | 28.50         | 2.78  |
| Relative Humidity Lag 10         | 0.00         | 26.47         | 4.29  |
| Total Precipitation Lag 1        | -6.46        | 12.23         | 0.75  |
| Total Precipitation Lag 2        | 0.00         | 21.08         | 5.08  |
| Total Precipitation Lag 3        | -8.98        | 11.00         | 0.39  |
| Total Precipitation Lag 4        | -5.92        | 10.66         | 0.53  |
| Total Precipitation Lag 5        | 0.00         | 27.12         | 5.37  |
| Total Precipitation Lag 6        | -10.23       | 8.53          | 0.14  |
| Total Precipitation Lag 7        | -5.52        | 18.85         | 1.88  |
| Total Precipitation Lag 8        | -12.69       | 7.09          | -0.89 |
| Total Precipitation Lag 9        | -14.49       | 2.73          | -3.07 |
| Total Precipitation Lag 10       | -15.10       | 6.98          | -0.91 |
| Temperature Lag 1                | 0.00         | 22.10         | 3.92  |
| Temperature Lag 2                | 0.00         | 23.87         | 2.79  |
| Temperature Lag 3                | -17.74       | 5.95          | -0.90 |
| Temperature Lag 4                | 0.00         | 19.73         | 1.81  |
| Temperature Lag 5                | 0.00         | 33.11         | 4.75  |
| Temperature Lag 6                | -26.02       | 0.00          | -2.44 |
| Temperature Lag 7                | 0.00         | 15.79         | 1.85  |
| Temperature Lag 8                | -19.61       | 0.00          | -1.79 |
| Temperature Lag 9                | -0.22        | 9.54          | 0.77  |
| Temperature Lag 10               | -24.01       | 0.00          | -3.27 |
| Connectivity Lag 1               | -0.13        | 0.11          | 0.00  |
| Connectivity Lag 2               | 0.00         | 0.30          | 0.03  |
| Connectivity Lag 3               | -0.21        | 0.00          | -0.01 |
| Connectivity Lag 4               | -0.32        | 0.04          | -0.02 |
| Connectivity Lag 5               | -0.31        | 0.00          | -0.02 |
| Connectivity Lag 6               | -0.04        | 0.24          | 0.01  |
| Connectivity Lag 7               | 0.00         | 0.44          | 0.04  |
| Connectivity Lag 8               | -0.04        | 0.19          | 0.01  |
| Connectivity Lag 9               | -0.11        | 0.18          | 0.00  |
| Connectivity Lag 10              | -0.51        | 0.00          | -0.05 |
| Adjacency Lag 1                  | 0.00         | 0.21          | 0.04  |
| Adjacency Lag 2                  | 0.00         | 0.18          | 0.04  |
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| Adjacency Lag 3 | -0.10   | 0.08    | -0.00   |
| Adjacency Lag 4 | 0.00    | 0.20    | 0.02    |
| Adjacency Lag 5 | -0.09   | 0.07    | -0.00   |
| Adjacency Lag 6 | 0.00    | 0.25    | 0.04    |
| Adjacency Lag 7 | -0.16   | 0.03    | -0.01   |
| Adjacency Lag 8 | -0.11   | 0.07    | -0.00   |
| Adjacency Lag 9 | -0.13   | 0.06    | -0.01   |
| Adjacency Lag 10 | 0.00    | 0.21    | 0.02    |

Table 11: SSTAR Bootstrap Values: Pulau Pinang
## 6.11 Sabah

|                                | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------------------|--------------|---------------|------|
| Own Counts Lag 1               | 0.12         | 0.67          | 0.48 |
| Own Counts Lag 2               | -0.11        | 0.31          | 0.08 |
| Own Counts Lag 3               | -0.05        | 0.38          | 0.09 |
| Own Counts Lag 4               | -0.20        | 0.20          | 0.01 |
| Own Counts Lag 5               | -0.03        | 0.35          | 0.06 |
| Own Counts Lag 6               | -0.36        | 0.07          | -0.04|
| Own Counts Lag 7               | -0.35        | 0.09          | -0.03|
| Own Counts Lag 8               | -0.67        | 0.00          | -0.25|
| Own Counts Lag 9               | -0.43        | 0.00          | -0.06|
| Own Counts Lag 10              | -0.61        | 0.00          | -0.11|
| Absolute Humidity Lag 1        | -12.28       | 10.28         | -0.01|
| Absolute Humidity Lag 2        | -27.44       | 17.74         | -0.88|
| Absolute Humidity Lag 3        | -28.07       | 13.73         | -1.93|
| Absolute Humidity Lag 4        | -11.27       | 16.15         | 0.64 |
| Absolute Humidity Lag 5        | -22.01       | 7.37          | -1.72|
| Absolute Humidity Lag 6        | -17.12       | 9.02          | -0.91|
| Absolute Humidity Lag 7        | -6.29        | 33.65         | 5.13 |
| Absolute Humidity Lag 8        | -2.96        | 24.54         | 2.80 |
| Absolute Humidity Lag 9        | -26.20       | 2.13          | -2.01|
| Absolute Humidity Lag 10       | -16.02       | 15.54         | -0.06|
| Relative Humidity Lag 1        | -46.31       | 0.00          | -7.00|
| Relative Humidity Lag 2        | -12.85       | 14.06         | -0.19|
| Relative Humidity Lag 3        | -8.09        | 14.93         | 1.21 |
| Relative Humidity Lag 4        | -10.93       | 19.54         | 1.05 |
| Relative Humidity Lag 5        | -20.66       | 4.00          | -2.82|
| Relative Humidity Lag 6        | -18.94       | 0.00          | -2.77|
| Relative Humidity Lag 7        | -8.41        | 17.31         | 1.54 |
| Relative Humidity Lag 8        | -3.89        | 20.82         | 1.97 |
| Relative Humidity Lag 9        | -2.28        | 17.70         | 2.47 |
| Relative Humidity Lag 10       | 0.00         | 19.55         | 2.83 |
| Total Precipitation Lag 1      | -14.38       | 31.22         | 1.01 |
| Total Precipitation Lag 2      | -21.90       | 12.08         | -2.88|
| Total Precipitation Lag 3      | -22.46       | 6.47          | -2.04|
| Total Precipitation Lag 4      | -34.11       | 4.49          | -4.88|
| Total Precipitation Lag 5      | -2.86        | 25.67         | 3.72 |
| Total Precipitation Lag 6      | -2.33        | 38.21         | 5.13 |
| Total Precipitation Lag 7      | 0.00         | 29.77         | 5.63 |
| Total Precipitation Lag 8      | -21.10       | 9.24          | -2.02|
| Total Precipitation Lag 9      | -27.82       | 0.00          | -5.14|
| Total Precipitation Lag 10     | -27.53       | 3.87          | -4.01|
| Temperature Lag 1              | 0.00         | 28.16         | 5.20 |
| Temperature Lag 2              | -11.02       | 15.87         | 0.39 |
| Temperature Lag 3              | -17.00       | 0.00          | -1.40|
| Temperature Lag 4              | -14.25       | 4.24          | -0.92|
| Temperature Lag 5              | -3.86        | 10.88         | 0.67 |
| Temperature Lag 6              | 0.00         | 26.31         | 2.27 |
| Temperature Lag 7              | 0.00         | 17.62         | 0.97 |
| Temperature Lag 8              | -10.39       | 8.67          | 0.04 |
| Temperature Lag 9              | -28.85       | 0.00          | -3.49|
| Temperature Lag 10             | -23.95       | 0.00          | -2.32|
| Connectivity Lag 1             | 0.00         | 1.07          | 0.16 |
| Connectivity Lag 2             | -0.85        | 0.00          | -0.07|
| Connectivity Lag 3             | 0.00         | 0.63          | 0.06 |
| Connectivity Lag 4             | 0.00         | 0.54          | 0.03 |
| Connectivity Lag 5             | -0.00        | 0.57          | 0.04 |
| Connectivity Lag 6             | -0.54        | 0.20          | -0.03|
| Connectivity Lag 7             | -0.55        | 0.22          | -0.03|
| Connectivity Lag 8             | -0.34        | 0.48          | 0.01 |
| Connectivity Lag 9             | -0.06        | 0.66          | 0.04 |
| Connectivity Lag 10            | -0.22        | 0.27          | 0.00 |
| Adjacency Lag 1               | 0.00         | 0.59          | 0.14 |
| Adjacency Lag 2               | 0.00         | 0.78          | 0.11 |
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| Adjacency Lag 3 | 0.00    | 0.79    | 0.12    |
| Adjacency Lag 4 | -0.16   | 0.34    | 0.01    |
| Adjacency Lag 5 | 0.00    | 0.86    | 0.11    |
| Adjacency Lag 6 | 0.00    | 0.97    | 0.13    |
| Adjacency Lag 7 | -0.80   | 0.17    | -0.05   |
| Adjacency Lag 8 | 0.00    | 1.30    | 0.20    |
| Adjacency Lag 9 | -0.88   | 0.00    | -0.13   |
| Adjacency Lag 10| -0.18   | 0.29    | 0.01    |

Table 12: SSTAR Bootstrap Values: Sabah
|                        | 2.5 Quantile | 97.5 Quantile | Mean |
|------------------------|--------------|---------------|------|
| Own Counts Lag 1       | 0.19         | 0.80          | 0.54 |
| Own Counts Lag 2       | 0.00         | 0.53          | 0.15 |
| Own Counts Lag 3       | -0.09        | 0.09          | 0.00 |
| Own Counts Lag 4       | -0.10        | 0.21          | 0.01 |
| Own Counts Lag 5       | -0.19        | 0.10          | -0.01|
| Own Counts Lag 6       | -0.13        | 0.05          | -0.01|
| Own Counts Lag 7       | -0.20        | 0.00          | -0.02|
| Own Counts Lag 8       | -0.29        | 0.00          | -0.05|
| Own Counts Lag 9       | -0.21        | 0.03          | -0.01|
| Own Counts Lag 10      | -0.05        | 0.11          | 0.00 |
| Absolute Humidity Lag 1| -23.37       | 0.00          | -3.14|
| Absolute Humidity Lag 2| -8.06        | 22.28         | 1.71 |
| Absolute Humidity Lag 3| -26.14       | 0.00          | -2.93|
| Absolute Humidity Lag 4| 0.00         | 34.85         | 6.32 |
| Absolute Humidity Lag 5| -10.53       | 12.79         | 0.37 |
| Absolute Humidity Lag 6| -43.67       | 0.00          | -5.73|
| Absolute Humidity Lag 7| -25.22       | 1.17          | -2.53|
| Absolute Humidity Lag 8| -16.67       | 11.01         | -0.53|
| Absolute Humidity Lag 9| -10.73       | 15.40         | 0.36 |
| Absolute Humidity Lag 10| -14.08       | 9.24          | -0.71|
| Relative Humidity Lag 1 | -10.48      | 21.85         | 1.13 |
| Relative Humidity Lag 2 | -6.25        | 23.74         | 1.66 |
| Relative Humidity Lag 3 | -53.33       | 0.00          | -11.60|
| Relative Humidity Lag 4 | -5.60        | 20.95         | 1.79 |
| Relative Humidity Lag 5 | -12.78       | 11.10         | -0.31|
| Relative Humidity Lag 6 | -6.23        | 19.81         | 1.35 |
| Relative Humidity Lag 7 | -25.95       | 1.52          | -2.99|
| Relative Humidity Lag 8 | -14.36       | 16.94         | -0.05|
| Relative Humidity Lag 9 | -16.32       | 4.30          | -1.39|
| Relative Humidity Lag 10| -1.12        | 38.04         | 4.46 |
| Total Precipitation Lag 1| -26.18      | 3.39          | -3.31|
| Total Precipitation Lag 2| -20.33       | 4.73          | -2.25|
| Total Precipitation Lag 3| -14.16       | 15.45         | 0.88 |
| Total Precipitation Lag 4| -17.65       | 6.23          | -1.81|
| Total Precipitation Lag 5| -5.96        | 16.35         | 1.37 |
| Total Precipitation Lag 6| -23.76       | 7.14          | 2.23 |
| Total Precipitation Lag 7| -15.07       | 5.65          | 1.82 |
| Total Precipitation Lag 8| -25.47       | 0.00          | -5.31|
| Total Precipitation Lag 9| -17.22       | 8.23          | 1.41 |
| Total Precipitation Lag 10| -40.42       | 0.00          | -7.39|
| Temperature Lag 1       | -38.20       | 0.00          | -5.88|
| Temperature Lag 2       | -16.07       | 9.54          | -0.53|
| Temperature Lag 3       | -2.66        | 22.58         | 1.74 |
| Temperature Lag 4       | -2.00        | 14.42         | 0.86 |
| Temperature Lag 5       | -6.78        | 11.24         | 0.21 |
| Temperature Lag 6       | -53.96       | 0.00          | -11.07|
| Temperature Lag 7       | -6.74        | 7.47          | 0.23 |
| Temperature Lag 8       | -10.67       | 9.91          | -0.28|
| Temperature Lag 9       | -2.72        | 14.60         | 0.89 |
| Temperature Lag 10      | -24.69       | 0.00          | -3.10|
| Connectivity Lag 1      | 0.00         | 1.30          | 0.48 |
| Connectivity Lag 2      | -0.12        | 0.23          | 0.00 |
| Connectivity Lag 3      | 0.00         | 0.48          | 0.05 |
| Connectivity Lag 4      | 0.00         | 0.54          | 0.07 |
| Connectivity Lag 5      | -0.82        | 0.00          | -0.07|
| Connectivity Lag 6      | 0.00         | 0.64          | 0.06 |
| Connectivity Lag 7      | 0.00         | 0.35          | 0.03 |
| Connectivity Lag 8      | -0.13        | 0.10          | -0.01|
| Connectivity Lag 9      | 0.00         | 0.36          | 0.03 |
| Connectivity Lag 10     | -0.10        | 0.40          | 0.04 |
| Adjacency Lag 1        | -0.91        | 0.15          | -0.09|
| Adjacency Lag 2        | -0.10        | 0.65          | 0.11 |
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| 3             | -0.40   | 0.58    | 0.03    |
| 4             | 0.00    | 2.64    | 1.07    |
| 5             | -1.26   | 0.36    | -0.19   |
| 6             | -1.11   | 0.00    | -0.19   |
| 7             | -0.33   | 0.70    | 0.04    |
| 8             | -0.83   | 0.30    | -0.09   |
| 9             | -0.88   | 0.09    | -0.10   |
| 10            | -0.87   | 0.42    | -0.10   |

Table 13: SSTAR Bootstrap Values: Sarawak
### 6.13 Selangor

|                  | 2.5 Quantile | 97.5 Quantile | Mean |
|------------------|--------------|---------------|------|
| Own Counts Lag 1 | 0.30         | 0.70          | 0.52 |
| Own Counts Lag 2 | -0.03        | 0.14          | 0.01 |
| Own Counts Lag 3 | 0.00         | 0.24          | 0.05 |
| Own Counts Lag 4 | -0.08        | 0.19          | 0.02 |
| Own Counts Lag 5 | 0.00         | 0.30          | 0.10 |
| Own Counts Lag 6 | 0.00         | 0.25          | 0.06 |
| Own Counts Lag 7 | -0.23        | 0.03          | -0.01|
| Own Counts Lag 8 | -0.10        | 0.08          | 0.00 |
| Own Counts Lag 9 | -0.02        | 0.17          | 0.01 |
| Own Counts Lag 10| 0.00         | 0.17          | 0.02 |
| Absolute Humidity Lag 1 | -89.09     | 9.50          | -16.28|
| Absolute Humidity Lag 2 | -114.49    | 0.00          | -25.76|
| Absolute Humidity Lag 3 | -46.42      | 71.11         | 2.57 |
| Absolute Humidity Lag 4 | -45.96      | 74.53         | 5.86 |
| Absolute Humidity Lag 5 | 0.00        | 154.00        | 57.13|
| Absolute Humidity Lag 6 | -46.87      | 65.36         | 3.23 |
| Absolute Humidity Lag 7 | -56.28      | 29.17         | -3.16|
| Absolute Humidity Lag 8 | -44.64      | 58.71         | 2.75 |
| Absolute Humidity Lag 9 | 0.00        | 61.42         | 5.46 |
| Absolute Humidity Lag 10 | -139.10     | 0.00          | -56.64|
| Relative Humidity Lag 1 | -16.52      | 60.44         | 3.54 |
| Relative Humidity Lag 2 | -50.01      | 5.65          | -3.81|
| Relative Humidity Lag 3 | 0.00        | 85.16         | 16.35|
| Relative Humidity Lag 4 | -10.46      | 40.48         | 2.58 |
| Relative Humidity Lag 5 | 0.00        | 63.49         | 7.54 |
| Relative Humidity Lag 6 | -38.55      | 47.19         | 0.48 |
| Relative Humidity Lag 7 | -70.08      | 47.32         | -1.42|
| Relative Humidity Lag 8 | -106.13     | 4.55          | -12.97|
| Relative Humidity Lag 9 | 0.00        | 139.87        | 38.12|
| Relative Humidity Lag 10 | -59.23      | 0.00          | -6.05 |
| Total Precipitation Lag 1 | -106.76     | 0.00          | -27.84|
| Total Precipitation Lag 2 | -53.37      | 27.45         | -7.87 |
| Total Precipitation Lag 3 | -22.34      | 58.26         | 8.75 |
| Total Precipitation Lag 4 | -4.90       | 65.78         | 14.84|
| Total Precipitation Lag 5 | -55.75      | 20.45         | -6.99 |
| Total Precipitation Lag 6 | -36.85      | 38.21         | 0.56 |
| Total Precipitation Lag 7 | -12.77      | 73.68         | 10.45|
| Total Precipitation Lag 8 | -26.97      | 79.91         | 7.58 |
| Total Precipitation Lag 9 | -109.05     | 5.80          | -21.24|
| Total Precipitation Lag 10 | -80.16      | 5.84          | -14.47|
| Temperature Lag 1 | -81.37      | 0.00          | -12.10|
| Temperature Lag 2 | -36.90      | 9.32          | -2.14 |
| Temperature Lag 3 | -73.36      | 0.00          | -10.80|
| Temperature Lag 4 | -24.69      | 37.75         | 1.15 |
| Temperature Lag 5 | 0.00        | 53.34         | 4.59 |
| Temperature Lag 6 | -32.71      | 51.08         | 1.94 |
| Temperature Lag 7 | -31.58      | 48.89         | 1.74 |
| Temperature Lag 8 | 0.00        | 88.50         | 14.60|
| Temperature Lag 9 | -84.09      | 0.00          | -10.69|
| Temperature Lag 10 | -80.48      | 0.00          | -12.68|
| Connectivity Lag 1 | -0.88       | 0.85          | -0.00 |
| Connectivity Lag 2 | -0.93       | 0.00          | -0.07 |
| Connectivity Lag 3 | -0.22       | 0.56          | 0.02 |
| Connectivity Lag 4 | 0.00        | 1.62          | 0.39 |
| Connectivity Lag 5 | -0.50       | 0.20          | -0.02 |
| Connectivity Lag 6 | -0.56       | 0.52          | -0.00 |
| Connectivity Lag 7 | -1.16       | 0.00          | -0.18 |
| Connectivity Lag 8 | -1.16       | 0.00          | -0.13 |
| Connectivity Lag 9 | -0.48       | 0.50          | 0.00 |
| Connectivity Lag 10 | -0.42       | 0.54          | 0.02 |
| Adjacency Lag 1   | 0.00        | 1.76          | 0.55 |
| Adjacency Lag 2   | -0.37       | 0.57          | 0.01 |
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| Adjacency Lag 3 | -0.23   | 0.71    | 0.06    |
| Adjacency Lag 4 |  0.00   | 1.20    | 0.22    |
| Adjacency Lag 5 | -1.10   | 0.00    | -0.13   |
| Adjacency Lag 6 | -0.32   | 0.55    | 0.01    |
| Adjacency Lag 7 | -0.81   | 0.12    | -0.06   |
| Adjacency Lag 8 | -1.36   | 0.00    | -0.40   |
| Adjacency Lag 9 | -0.32   | 0.46    | 0.02    |
| Adjacency Lag 10| -0.25   | 0.51    | 0.02    |

Table 14: SSTAR Bootstrap Values: Selangor
## 6.14 Singapore

|                          | 2.5 Quantile | 97.5 Quantile | Mean |
|--------------------------|--------------|---------------|------|
| Own Counts Lag 1         | 0.33         | 0.82          | 0.61 |
| Own Counts Lag 2         | -0.19        | 0.26          | 0.02 |
| Own Counts Lag 3         | 0.00         | 0.37          | 0.09 |
| Own Counts Lag 4         | -0.27        | 0.00          | -0.03|
| Own Counts Lag 5         | -0.18        | 0.17          | -0.00|
| Own Counts Lag 6         | -0.20        | 0.11          | -0.01|
| Own Counts Lag 7         | -0.14        | 0.23          | 0.01 |
| Own Counts Lag 8         | -0.17        | 0.08          | -0.01|
| Own Counts Lag 9         | -0.09        | 0.11          | -0.00|
| Own Counts Lag 10        | -0.10        | 0.10          | -0.00|
| Absolute Humidity Lag 1  | -54.56       | 6.51          | -9.03|
| Absolute Humidity Lag 2  | -54.56       | 6.35          | -6.38|
| Absolute Humidity Lag 3  | -29.02       | 24.47         | -8.84|
| Absolute Humidity Lag 4  | 0.00         | 79.06         | 16.73|
| Absolute Humidity Lag 5  | 0.00         | 87.86         | 28.22|
| Absolute Humidity Lag 6  | -31.25       | 31.59         | 0.53 |
| Absolute Humidity Lag 7  | 0.00         | 72.35         | 17.79|
| Absolute Humidity Lag 8  | 0.00         | 98.13         | 32.10|
| Absolute Humidity Lag 9  | 0.00         | 66.71         | 14.11|
| Absolute Humidity Lag 10 | -9.19        | 22.63         | 1.23 |
| Relative Humidity Lag 1  | -31.88       | 4.90          | -5.27|
| Relative Humidity Lag 2  | -6.22        | 38.38         | 4.64 |
| Relative Humidity Lag 3  | -35.95       | 13.00         | -4.10|
| Relative Humidity Lag 4  | -32.13       | 36.27         | -0.21|
| Relative Humidity Lag 5  | 0.00         | 48.75         | 5.31 |
| Relative Humidity Lag 6  | -46.39       | 8.51          | -9.72|
| Relative Humidity Lag 7  | -5.54        | 22.45         | 1.81 |
| Relative Humidity Lag 8  | -6.94        | 22.12         | 1.31 |
| Relative Humidity Lag 9  | -1.89        | 44.00         | 7.46 |
| Relative Humidity Lag 10 | -29.55       | 6.25          | -4.42|
| Total Precipitation Lag 1| -20.49       | 26.64         | 1.23 |
| Total Precipitation Lag 2| -84.31       | 0.00          | -25.14|
| Total Precipitation Lag 3| -11.06       | 45.80         | 7.00 |
| Total Precipitation Lag 4| -60.21       | 1.69          | -15.92|
| Total Precipitation Lag 5| -57.64       | 0.00          | -12.97|
| Total Precipitation Lag 6| -30.57       | 33.12         | 0.76 |
| Total Precipitation Lag 7| -37.97       | 23.95         | -2.13|
| Total Precipitation Lag 8| -19.22       | 34.50         | 1.67 |
| Total Precipitation Lag 9| -33.52       | 33.99         | 0.40 |
| Total Precipitation Lag 10| -51.38      | 4.84          | -11.97|
| Temperature Lag 1        | -22.69       | 17.96         | -0.64|
| Temperature Lag 2        | -84.67       | 0.00          | -11.78|
| Temperature Lag 3        | -3.14        | 35.58         | 2.46 |
| Temperature Lag 4        | 0.00         | 50.90         | 7.29 |
| Temperature Lag 5        | 0.00         | 38.84         | 4.04 |
| Temperature Lag 6        | 0.00         | 40.97         | 5.38 |
| Temperature Lag 7        | 0.00         | 38.36         | 4.43 |
| Temperature Lag 8        | 0.00         | 48.41         | 7.21 |
| Temperature Lag 9        | -3.89        | 33.45         | 1.91 |
| Temperature Lag 10       | 0.00         | 55.22         | 9.45 |
| Connectivity Lag 1       | -0.11        | 0.23          | 0.01 |
| Connectivity Lag 2       | -0.09        | 0.12          | 0.00 |
| Connectivity Lag 3       | -0.27        | 0.18          | -0.01|
| Connectivity Lag 4       | -0.08        | 0.29          | 0.02 |
| Connectivity Lag 5       | -0.40        | 0.00          | -0.05|
| Connectivity Lag 6       | -0.28        | 0.03          | -0.02|
| Connectivity Lag 7       | -0.56        | 0.00          | -0.07|
| Connectivity Lag 8       | -0.57        | 0.00          | -0.07|
| Connectivity Lag 9       | -0.43        | 0.00          | -0.05|
| Connectivity Lag 10      | -0.31        | 0.05          | -0.02|
| Adjacency Lag 1         | -0.12        | 0.09          | -0.00|
| Adjacency Lag 2         | -0.26        | 0.00          | -0.02|
| Adjacency Lag | Value 1 | Value 2 | Value 3 |
|---------------|---------|---------|---------|
| 3             | -0.26   | 0.00    | -0.02   |
| 4             | -0.13   | 0.09    | -0.00   |
| 5             | -0.39   | 0.03    | -0.02   |
| 6             | 0.00    | 0.37    | 0.03    |
| 7             | -0.16   | 0.00    | -0.01   |
| 8             | 0.00    | 0.74    | 0.07    |
| 9             | 0.00    | 0.12    | 0.00    |
| 10            | 0.00    | 0.95    | 0.23    |

Table 15: SSTAR Bootstrap Values: Singapore
### 6.15 Terengganu

|                          | 2.5 Quantile | 97.5 Quantile | Mean  |
|--------------------------|--------------|---------------|-------|
| Own Counts Lag 1         | 0.00         | 0.41          | 0.15  |
| Own Counts Lag 2         | -0.35        | 0.00          | -0.06 |
| Own Counts Lag 3         | -0.27        | 0.09          | -0.05 |
| Own Counts Lag 4         | -0.26        | 0.04          | -0.03 |
| Own Counts Lag 5         | -0.14        | 0.21          | 0.00  |
| Own Counts Lag 6         | -0.25        | 0.04          | -0.03 |
| Own Counts Lag 7         | -0.16        | 0.08          | -0.01 |
| Own Counts Lag 8         | -0.16        | 0.18          | 0.00  |
| Own Counts Lag 9         | -0.29        | 0.02          | -0.06 |
| Own Counts Lag 10        | -0.21        | 0.06          | -0.02 |
| Absolute Humidity Lag 1  | -25.38       | 0.00          | -4.39 |
| Absolute Humidity Lag 2  | -33.56       | 3.31          | -6.46 |
| Absolute Humidity Lag 3  | -5.42        | 21.00         | 1.62  |
| Absolute Humidity Lag 4  | -15.06       | 19.95         | 0.70  |
| Absolute Humidity Lag 5  | -32.74       | 0.00          | -4.94 |
| Absolute Humidity Lag 6  | -25.89       | 1.92          | -3.64 |
| Absolute Humidity Lag 7  | -2.27        | 21.99         | 2.06  |
| Absolute Humidity Lag 8  | -13.14       | 10.74         | 0.02  |
| Absolute Humidity Lag 9  | -14.07       | 4.17          | -0.93 |
| Absolute Humidity Lag 10 | -1.52        | 16.08         | 1.49  |
| Relative Humidity Lag 1  | -16.42       | 4.08          | -1.08 |
| Relative Humidity Lag 2  | -27.95       | 0.55          | -5.51 |
| Relative Humidity Lag 3  | -30.43       | 2.94          | -3.70 |
| Relative Humidity Lag 4  | 0.00         | 23.12         | 3.98  |
| Relative Humidity Lag 5  | -25.81       | 0.30          | -3.39 |
| Relative Humidity Lag 6  | -14.47       | 2.02          | -0.79 |
| Relative Humidity Lag 7  | -17.04       | 2.42          | -1.23 |
| Relative Humidity Lag 8  | -3.06        | 12.40         | 1.15  |
| Relative Humidity Lag 9  | -14.77       | 2.48          | -2.09 |
| Relative Humidity Lag 10 | -7.57        | 9.21          | 0.19  |
| Total Precipitation Lag 1| -10.77       | 15.39         | 1.42  |
| Total Precipitation Lag 2| -6.69        | 17.63         | 1.25  |
| Total Precipitation Lag 3| -0.08        | 31.94         | 5.12  |
| Total Precipitation Lag 4| -14.28       | 7.46          | -1.06 |
| Total Precipitation Lag 5| -8.60        | 19.47         | 1.23  |
| Total Precipitation Lag 6| 0.61         | 37.00         | 16.51 |
| Total Precipitation Lag 7| -5.64        | 18.14         | 2.73  |
| Total Precipitation Lag 8| -6.50        | 18.96         | 2.45  |
| Total Precipitation Lag 9| -19.23       | 5.23          | -2.86 |
| Total Precipitation Lag 10| -13.84       | 11.14         | -0.41 |
| Temperature Lag 1        | -14.75       | 0.00          | -1.27 |
| Temperature Lag 2        | -8.07        | 1.38          | -0.27 |
| Temperature Lag 3        | 0.00         | 21.98         | 2.06  |
| Temperature Lag 4        | -15.58       | 0.00          | -1.20 |
| Temperature Lag 5        | -4.02        | 4.66          | 0.12  |
| Temperature Lag 6        | -10.54       | 1.53          | -0.68 |
| Temperature Lag 7        | 0.00         | 25.09         | 2.60  |
| Temperature Lag 8        | -11.16       | 2.50          | -0.76 |
| Temperature Lag 9        | -0.58        | 11.21         | 0.76  |
| Temperature Lag 10       | -2.62        | 8.40          | 0.54  |
| Connectivity Lag 1       | -0.06        | 0.20          | 0.01  |
| Connectivity Lag 2       | -0.49        | 0.00          | -0.05 |
| Connectivity Lag 3       | -0.01        | 0.29          | 0.02  |
| Connectivity Lag 4       | -0.07        | 0.18          | 0.00  |
| Connectivity Lag 5       | 0.00         | 0.27          | 0.02  |
| Connectivity Lag 6       | -0.01        | 0.21          | 0.01  |
| Connectivity Lag 7       | -0.06        | 0.08          | 0.00  |
| Connectivity Lag 8       | -0.22        | 0.07          | -0.02 |
| Connectivity Lag 9       | -0.07        | 0.20          | 0.01  |
| Connectivity Lag 10      | -0.29        | 0.03          | -0.03 |
| Adjacency Lag 1         | -0.12        | 0.27          | 0.02  |
| Adjacency Lag 2         | -0.39        | 0.00          | -0.08 |
### 7 Climate Sensitivity Analysis

|                           | Johor Mean | Johor Max | Johor Min |
|---------------------------|------------|-----------|-----------|
| Own Counts Lag 1          | 0.90       | 0.90      | 0.92      |
| Own Counts Lag 2          | 0.04       | 0.04      | 0.02      |
| Own Counts Lag 3          | 0.00       | 0.00      | 0.00      |
| Own Counts Lag 4          | 0.00       | 0.00      | 0.00      |
| Own Counts Lag 5          | 0.00       | 0.00      | 0.00      |
| Own Counts Lag 6          | 0.00       | 0.00      | 0.00      |
| Own Counts Lag 7          | 0.00       | 0.00      | 0.00      |
| Own Counts Lag 8          | 0.00       | 0.00      | 0.00      |
| Own Counts Lag 9          | 0.00       | 0.00      | 0.00      |
| Own Counts Lag 10         | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 1   | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 2   | 0.02       | 0.01      | 0.00      |
| Absolute Humidity Lag 3   | 0.00       | 0.01      | 0.01      |
| Absolute Humidity Lag 4   | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 5   | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 6   | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 7   | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 8   | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 9   | 0.00       | 0.00      | 0.00      |
| Absolute Humidity Lag 10  | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 1   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 2   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 3   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 4   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 5   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 6   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 7   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 8   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 9   | 0.00       | 0.00      | 0.00      |
| Relative Humidity Lag 10  | -0.00      | 0.00      | 0.00      |
| Total Precipitation Lag 1 | 0.03       | 0.02      | 0.00      |
| Total Precipitation Lag 2 | 0.02       | 0.02      | 0.00      |
| Total Precipitation Lag 3 | 0.00       | 0.00      | 0.00      |
| Total Precipitation Lag 4 | 0.00       | 0.00      | 0.00      |
| Total Precipitation Lag 5 | 0.00       | 0.00      | 0.01      |
| Total Precipitation Lag 6 | 0.00       | 0.00      | 0.00      |
| Total Precipitation Lag 7 | 0.00       | 0.00      | 0.00      |
| Total Precipitation Lag 8 | 0.00       | 0.00      | 0.00      |
| Total Precipitation Lag 9 | 0.00       | 0.00      | 0.00      |
| Total Precipitation Lag 10| -0.00      | 0.00      | 0.00      |
| Temperature Lag 1         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 2         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 3         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 4         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 5         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 6         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 7         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 8         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 9         | 0.00       | 0.00      | 0.00      |
| Temperature Lag 10        | 0.00       | 0.00      | 0.00      |
| Kedah Mean | Kedah Max | Kedah Min |
|------------|-----------|-----------|
| Own Counts Lag 1 | 0.43 | 0.43 | 0.43 |
| Own Counts Lag 2 | 0.01 | 0.00 | 0.00 |
| Own Counts Lag 3 | 0.10 | 0.09 | 0.09 |
| Own Counts Lag 4 | 0.12 | 0.12 | 0.13 |
| Own Counts Lag 5 | 0.04 | 0.03 | 0.04 |
| Own Counts Lag 6 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 7 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 8 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 9 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 10 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 1 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 2 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 3 | 0.03 | 0.00 | 0.00 |
| Absolute Humidity Lag 4 | 0.01 | 0.00 | 0.00 |
| Absolute Humidity Lag 5 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 6 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 7 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 8 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 9 | 0.00 | 0.00 | -0.00 |
| Absolute Humidity Lag 10 | -0.04 | 0.00 | 0.00 |
| Relative Humidity Lag 1 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 2 | 0.00 | 0.01 | 0.02 |
| Relative Humidity Lag 3 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 4 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 5 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 6 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 7 | 0.00 | 0.00 | -0.01 |
| Relative Humidity Lag 8 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 9 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 10 | 0.00 | 0.00 | -0.07 |
| Total Precipitation Lag 1 | -0.02 | 0.00 | 0.00 |
| Total Precipitation Lag 2 | 0.03 | 0.00 | 0.02 |
| Total Precipitation Lag 3 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 4 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 5 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 6 | 0.03 | 0.00 | 0.03 |
| Total Precipitation Lag 7 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 8 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 9 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 10 | 0.00 | 0.00 | 0.08 |
| Temperature Lag 1 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 2 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 3 | 0.00 | 0.00 | 0.00 |
|               | Kelantan Mean | Kelantan Max | Kelantan Min |
|---------------|---------------|--------------|--------------|
| Own Counts Lag 1 | 0.95          | 0.95         | 0.95         |
| Own Counts Lag 2 | 0.00          | 0.00         | 0.00         |
| Own Counts Lag 3 | 0.00          | 0.00         | 0.00         |
| Own Counts Lag 4 | 0.00          | 0.00         | 0.00         |
| Own Counts Lag 5 | 0.00          | 0.00         | 0.00         |
| Own Counts Lag 6 | -0.06         | -0.06        | -0.06        |
| Own Counts Lag 7 | 0.00          | 0.00         | 0.00         |
| Own Counts Lag 8 | 0.00          | 0.00         | 0.00         |
| Own Counts Lag 9 | 0.00          | 0.00         | 0.00         |
| Own Counts Lag 10 | 0.00          | 0.00         | 0.00         |
| Absolute Humidity Lag 1 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 2 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 3 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 4 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 5 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 6 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 7 | 0.02         | 0.02         | 0.01         |
| Absolute Humidity Lag 8 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 9 | 0.00         | 0.00         | 0.00         |
| Absolute Humidity Lag 10 | 0.00        | 0.00         | 0.00         |
| Relative Humidity Lag 1 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 2 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 3 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 4 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 5 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 6 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 7 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 8 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 9 | 0.00          | 0.00         | 0.00         |
| Relative Humidity Lag 10 | 0.00        | 0.00         | 0.00         |
| Total Precipitation Lag 1 | 0.00        | -0.00        | 0.00         |
| Total Precipitation Lag 2 | 0.00        | 0.00         | 0.00         |
| Total Precipitation Lag 3 | -0.01      | -0.00        | 0.00         |
| Total Precipitation Lag 4 | 0.00        | 0.00         | 0.00         |
| Total Precipitation Lag 5 | 0.00        | 0.00         | 0.00         |
| Total Precipitation Lag 6 | 0.00        | 0.00         | 0.00         |
| Lag       | Melaka Mean | Melaka Max | Melaka Min |
|-----------|-------------|------------|------------|
| Own Counts Lag 1 | 0.60        | 0.59       | 0.61       |
| Own Counts Lag 2 | 0.07        | 0.07       | 0.07       |
| Own Counts Lag 3 | 0.05        | 0.05       | 0.04       |
| Own Counts Lag 4 | 0.06        | 0.06       | 0.06       |
| Own Counts Lag 5 | 0.00        | 0.00       | 0.01       |
| Own Counts Lag 6 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 7 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 8 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 9 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 10 | 0.00       | 0.00       | 0.00       |
| Absolute Humidity Lag 1 | 0.00       | 0.00       | 0.00       |
| Absolute Humidity Lag 2 | 0.02       | 0.00       | 0.03       |
| Absolute Humidity Lag 3 | 0.04       | 0.04       | 0.05       |
| Absolute Humidity Lag 4 | 0.02       | 0.00       | 0.00       |
| Absolute Humidity Lag 5 | 0.02       | 0.01       | 0.04       |
| Absolute Humidity Lag 6 | 0.00       | 0.00       | 0.00       |
| Absolute Humidity Lag 7 | 0.00       | 0.05       | 0.00       |
| Absolute Humidity Lag 8 | 0.00       | 0.00       | 0.00       |
| Absolute Humidity Lag 9 | 0.00      | -0.02      | 0.00       |
| Absolute Humidity Lag 10 | 0.00     | 0.00       | 0.00       |
| Relative Humidity Lag 1 | 0.00       | 0.00       | -0.02      |
| Relative Humidity Lag 2 | 0.00       | 0.07       | 0.00       |
| Relative Humidity Lag 3 | 0.00       | 0.00       | 0.00       |
| Relative Humidity Lag 4 | 0.00       | 0.00       | 0.00       |
| Relative Humidity Lag 5 | 0.00       | 0.01       | 0.00       |
| Relative Humidity Lag 6 | 0.00       | -0.03      | -0.02      |
| Relative Humidity Lag 7 | 0.00       | 0.00       | 0.00       |
| Relative Humidity Lag 8 | 0.00       | 0.03       | 0.00       |
| Relative Humidity Lag 9 | 0.00     | 0.00       | -0.03      |
| Negeri Sembilan Mean | Negeri Sembilan Max | Negeri Sembilan Min |
|---------------------|--------------------|--------------------|
| Own Counts Lag 1    | 0.48               | 0.48               |
| Own Counts Lag 2    | 0.19               | 0.19               | 0.21               |
| Own Counts Lag 3    | 0.00               | 0.00               | 0.00               |
| Own Counts Lag 4    | 0.08               | 0.09               | 0.06               |
| Own Counts Lag 5    | 0.03               | 0.03               | 0.03               |
| Own Counts Lag 6    | 0.03               | 0.03               | 0.04               |
| Own Counts Lag 7    | 0.00               | 0.00               | 0.00               |
| Own Counts Lag 8    | 0.00               | 0.00               | 0.00               |
| Own Counts Lag 9    | 0.00               | 0.00               | 0.00               |
| Own Counts Lag 10   | 0.04               | 0.04               | 0.04               |
| Absolute Humidity Lag 1 | 0.00       | 0.00               | 0.00               |
| Absolute Humidity Lag 2 | 0.02       | 0.00               | 0.00               |
| Absolute Humidity Lag 3 | 0.00       | 0.00               | -0.01              |
| Absolute Humidity Lag 4 | 0.00       | 0.00               | -0.04              |
| Absolute Humidity Lag 5 | 0.00       | 0.00               | 0.01               |
| Absolute Humidity Lag 6 | 0.00       | 0.00               | 0.00               |
| Absolute Humidity Lag 7 | 0.00       | 0.00               | 0.02               |
| Absolute Humidity Lag 8 | 0.00       | 0.06               | 0.00               |
| Absolute Humidity Lag 9 | 0.00       | 0.00               | 0.00               |
| Absolute Humidity Lag 10 | 0.00      | 0.00               | 0.00               |
| Relative Humidity Lag 1 | 0.00        | 0.00               | 0.00               |
| Relative Humidity Lag 2 | 0.02        | 0.00               | 0.08               |
| Relative Humidity Lag 3 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 4 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 5 | 0.00 | 0.02 | 0.00 |
| Relative Humidity Lag 6 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 7 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 8 | 0.00 | 0.00 | -0.04 |
| Relative Humidity Lag 9 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 10 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 1 | 0.00 | 0.00 | -0.01 |
| Total Precipitation Lag 2 | 0.00 | 0.00 | -0.07 |
| Total Precipitation Lag 3 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 4 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 5 | 0.01 | 0.00 | -0.01 |
| Total Precipitation Lag 6 | -0.01 | 0.00 | -0.02 |
| Total Precipitation Lag 7 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 8 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 9 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 10 | 0.00 | 0.00 | 0.00 |

| Temperature Lag 1 | 0.00 | 0.00 | 0.01 |
| Temperature Lag 2 | 0.00 | 0.00 | 0.03 |
| Temperature Lag 3 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 4 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 5 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 6 | 0.00 | 0.00 | 0.01 |
| Temperature Lag 7 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 8 | 0.03 | 0.00 | 0.02 |
| Temperature Lag 9 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 10 | 0.00 | 0.00 | 0.00 |

| Connectivity Lag 1 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 2 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 3 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 4 | -0.01 | -0.01 | -0.02 |
| Connectivity Lag 5 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 6 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 7 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 8 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 9 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 10 | 0.00 | 0.00 | 0.00 |

| Adjacency Lag 1 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 2 | 0.00 | 0.00 | -0.00 |
| Adjacency Lag 3 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 4 | -0.01 | 0.00 | -0.01 |
| Adjacency Lag 5 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 6 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 7 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 8 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 9 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 10 | 0.00 | 0.00 | 0.00 |

| Sabah Mean | Sabah Max | Sabah Min |
|------------|-----------|-----------|
| Own Counts Lag 1 | 0.30 | 0.31 | 0.31 |
| Own Counts Lag 2 | 0.06 | 0.06 | 0.06 |
| Own Counts Lag 3 | 0.13 | 0.13 | 0.14 |
| Own Counts Lag 4 | 0.02 | 0.02 | 0.02 |
| Own Counts Lag 5 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 6 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 7 | 0.00 | 0.00 | 0.01 |
| Own Counts Lag 8 | 0.01 | 0.01 | 0.04 |
| Own Counts Lag 9 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 10 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 1 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 2 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 3 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 4 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 5 | 0.00 | 0.00 | 0.00 |
|                                | Sarawak Mean | Sarawak Max | Sarawak Min |
|--------------------------------|--------------|-------------|-------------|
| Own Counts Lag 1               | 0.63         | 0.63        | 0.62        |
| Own Counts Lag 2               | 0.23         | 0.23        | 0.23        |
| Own Counts Lag 3               | 0.00         | 0.00        | 0.00        |
| Own Counts Lag 4               | 0.00         | 0.00        | 0.00        |
| Own Counts Lag 5               | 0.04         | 0.05        | 0.05        |
| Own Counts Lag 6               | 0.00         | 0.00        | 0.00        |
| Own Counts Lag 7               | 0.00         | 0.00        | 0.00        |
| Own Counts Lag 8               | 0.00         | 0.00        | 0.00        |
| Lag | Own Counts | Absolute Humidity | Relative Humidity | Total Precipitation | Temperature | Connectivity | Adjacency |
|-----|------------|-------------------|-------------------|--------------------|-------------|--------------|----------|
| 9   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 10  | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 1   | 0.00       | 0.00              | 0.03              | 0.02               | 0.00        | 0.03         | 0.02     |
| 2   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 3   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 4   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 5   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 6   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 7   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 8   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 9   | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |
| 10  | 0.00       | 0.00              | 0.00              | 0.00               | 0.00        | 0.00         | 0.00     |

| Lag | Selangor Mean | Selangor Max | Selangor Min |
|-----|---------------|--------------|--------------|
| 1   | 46            |              |              |
| Own Counts Lag 1 | 0.62  | 0.62  | 0.62  |
| Own Counts Lag 2 | 0.25  | 0.25  | 0.24  |
| Own Counts Lag 3 | 0.04  | 0.03  | 0.04  |
| Own Counts Lag 4 | 0.00  | 0.00  | 0.00  |
| Own Counts Lag 5 | 0.00  | 0.00  | 0.00  |
| Own Counts Lag 6 | 0.00  | 0.00  | 0.00  |
| Own Counts Lag 7 | 0.00  | 0.00  | 0.00  |
| Own Counts Lag 8 | 0.00  | 0.00  | 0.00  |
| Own Counts Lag 9 | 0.00  | 0.00  | 0.00  |
| Own Counts Lag 10| 0.00  | 0.00  | 0.00  |
| Absolute Humidity Lag 1 | 0.03  | 0.02  | 0.01  |
| Absolute Humidity Lag 2 | 0.00  | 0.00  | 0.00  |
| Absolute Humidity Lag 3 | 0.00  | 0.00  | 0.00  |
| Absolute Humidity Lag 4 | 0.00  | 0.00  | 0.02  |
| Absolute Humidity Lag 5 | 0.00  | 0.00  | 0.00  |
| Absolute Humidity Lag 6 | 0.01  | 0.01  | 0.03  |
| Absolute Humidity Lag 7 | 0.06  | 0.04  | 0.01  |
| Absolute Humidity Lag 8 | 0.00  | 0.01  | 0.00  |
| Absolute Humidity Lag 9 | 0.00  | 0.00  | 0.00  |
| Absolute Humidity Lag 10 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 1 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 2 | 0.00  | 0.02  | 0.00  |
| Relative Humidity Lag 3 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 4 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 5 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 6 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 7 | 0.00  | 0.00  | 0.01  |
| Relative Humidity Lag 8 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 9 | 0.00  | 0.00  | 0.00  |
| Relative Humidity Lag 10 | 0.00  | 0.00  | -0.03 |
| Total Precipitation Lag 1 | 0.00  | 0.02  | 0.00  |
| Total Precipitation Lag 2 | 0.00  | 0.00  | 0.00  |
| Total Precipitation Lag 3 | 0.00  | 0.00  | 0.00  |
| Total Precipitation Lag 4 | 0.03  | 0.03  | 0.06  |
| Total Precipitation Lag 5 | 0.00  | -0.02 | 0.00  |
| Total Precipitation Lag 6 | 0.00  | -0.01 | 0.00  |
| Total Precipitation Lag 7 | 0.00  | 0.00  | 0.00  |
| Total Precipitation Lag 8 | 0.00  | 0.00  | 0.00  |
| Total Precipitation Lag 9 | 0.00  | 0.00  | 0.00  |
| Total Precipitation Lag 10 | -0.03 | -0.05 | 0.00  |
| Temperature Lag 1 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 2 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 3 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 4 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 5 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 6 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 7 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 8 | 0.00  | 0.00  | 0.01  |
| Temperature Lag 9 | 0.00  | 0.00  | 0.00  |
| Temperature Lag 10 | 0.00  | 0.01  | 0.00  |
| Connectivity Lag 1 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 2 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 3 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 4 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 5 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 6 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 7 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 8 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 9 | 0.00  | 0.00  | 0.00  |
| Connectivity Lag 10 | 0.00  | 0.00  | 0.00  |
| Adjacency Lag 1 | 0.00  | 0.00  | 0.00  |
| Adjacency Lag 2 | 0.00  | 0.00  | 0.00  |
| Adjacency Lag 3 | 0.00  | 0.00  | 0.00  |
| Adjacency Lag 4 | 0.00  | 0.00  | 0.00  |
| Adjacency Lag 5 | 0.00  | 0.00  | 0.00  |
| Adjacency Lag   | 0.00 | 0.02 | 0.00 |
|----------------|------|------|------|
| Adjacency Lag 7 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 8 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 9 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 10| 0.00 | 0.00 | 0.00 |

| Own Counts Lag 1 | 0.65 | 0.65 | 0.65 |
| Own Counts Lag 2 | 0.20 | 0.20 | 0.20 |
| Own Counts Lag 3 | 0.03 | 0.04 | 0.03 |
| Own Counts Lag 4 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 5 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 6 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 7 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 8 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 9 | 0.00 | 0.00 | 0.00 |
| Own Counts Lag 10| 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 1 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 2 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 3 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 4 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 5 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 6 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 7 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 8 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 9 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 10 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 1 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 2 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 3 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 4 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 5 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 6 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 7 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 8 | -0.00 | -0.02 | 0.00 |
| Relative Humidity Lag 9 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 10 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 1 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 2 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 3 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 4 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 5 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 6 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 7 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 8 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 9 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 10 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 1  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 2  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 3  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 4  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 5  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 6  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 7  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 8  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 9  | 0.00 | 0.00 | 0.00 |
| Temperature Lag 10 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 1 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 2 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 3 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 4 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 5 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 6 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 7 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 8 | 0.00 | 0.00 | 0.00 |

| Terengganu Mean | Terengganu Max | Terengganu Min |
|-----------------|----------------|----------------|
| 0.65            | 0.65           | 0.65           |
| Connectivity Lag 9 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 10 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 1 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 2 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 3 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 4 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 5 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 6 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 7 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 8 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 9 | 0.00 | 0.00 | 0.00 |
| Adjacency Lag 10 | 0.00 | 0.00 | 0.00 |

| Kuala Lumpur Mean | Kuala Lumpur Max | Kuala Lumpur Min |
|-------------------|------------------|------------------|
| Own Counts Lag 1 | 0.56             | 0.57             |
| Own Counts Lag 2 | 0.09             | 0.09             |
| Own Counts Lag 3 | 0.23             | 0.22             |
| Own Counts Lag 4 | 0.00             | 0.00             |
| Own Counts Lag 5 | 0.00             | 0.00             |
| Own Counts Lag 6 | 0.00             | 0.00             |
| Own Counts Lag 7 | 0.00             | 0.00             |
| Own Counts Lag 8 | 0.00             | 0.00             |
| Own Counts Lag 9 | 0.00             | 0.00             |
| Own Counts Lag 10| 0.00             | 0.00             |
| Absolute Humidity Lag 1 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 2 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 3 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 4 | 0.03 | 0.03 | 0.02 |
| Absolute Humidity Lag 5 | 0.02 | 0.00 | 0.02 |
| Absolute Humidity Lag 6 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 7 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 8 | 0.01 | 0.05 | 0.00 |
| Absolute Humidity Lag 9 | 0.00 | 0.00 | 0.00 |
| Absolute Humidity Lag 10 | -0.01 | -0.02 | -0.01 |
| Relative Humidity Lag 1 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 2 | 0.00 | 0.01 | 0.01 |
| Relative Humidity Lag 3 | 0.00 | 0.00 | 0.01 |
| Relative Humidity Lag 4 | 0.04 | 0.03 | 0.04 |
| Relative Humidity Lag 5 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 6 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 7 | 0.01 | 0.03 | 0.00 |
| Relative Humidity Lag 8 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 9 | 0.00 | 0.00 | 0.00 |
| Relative Humidity Lag 10 | -0.00 | -0.01 | 0.00 |
| Total Precipitation Lag 1 | 0.01 | 0.00 | 0.00 |
| Total Precipitation Lag 2 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 3 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 4 | 0.00 | 0.01 | 0.00 |
| Total Precipitation Lag 5 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 6 | 0.02 | 0.02 | 0.01 |
| Total Precipitation Lag 7 | 0.00 | 0.00 | 0.04 |
| Total Precipitation Lag 8 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 9 | 0.00 | 0.00 | 0.00 |
| Total Precipitation Lag 10 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 1 | 0.00 | -0.00 | 0.00 |
| Temperature Lag 2 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 3 | 0.00 | -0.00 | 0.00 |
| Temperature Lag 4 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 5 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 6 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 7 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 8 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 9 | 0.00 | 0.00 | 0.00 |
| Temperature Lag 10 | 0.00 | 0.00 | 0.00 |
| Connectivity Lag 1 | 0.00 | 0.00 | 0.00 |
| Lag | Connectivity Lag 2 | Connectivity Lag 3 | Connectivity Lag 4 | Connectivity Lag 5 | Connectivity Lag 6 | Connectivity Lag 7 | Connectivity Lag 8 | Connectivity Lag 9 | Connectivity Lag 10 |
|-----|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|     | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | -0.03              | -0.00              | 0.00               | 0.00               |
|     |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 1 | 0.12               | 0.12               | 0.11               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 2 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 3 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 4 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 5 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 6 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 7 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 8 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 9 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |
| Adjacency Lag 10 | 0.00               | 0.00               | 0.00               |                    |                    |                    |                    |                    |                    |

| Lag | Labuan Mean | Labuan Max | Labuan Min |
|-----|-------------|------------|------------|
| Own Counts Lag 1 | 0.94        | 0.94       | 0.94       |
| Own Counts Lag 2 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 3 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 4 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 5 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 6 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 7 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 8 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 9 | 0.00        | 0.00       | 0.00       |
| Own Counts Lag 10 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 1 | 0.00        | 0.01       | 0.00       |
| Absolute Humidity Lag 2 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 3 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 4 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 5 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 6 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 7 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 8 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 9 | 0.00        | 0.00       | 0.00       |
| Absolute Humidity Lag 10 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 1 | 0.00        | 0.01       | 0.00       |
| Relative Humidity Lag 2 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 3 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 4 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 5 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 6 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 7 | 0.00        | 0.00       | 0.01       |
| Relative Humidity Lag 8 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 9 | 0.00        | 0.00       | 0.00       |
| Relative Humidity Lag 10 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 1 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 2 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 3 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 4 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 5 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 6 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 7 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 8 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 9 | 0.00        | 0.00       | 0.00       |
| Total Precipitation Lag 10 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 1 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 2 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 3 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 4 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 5 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 6 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 7 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 8 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 9 | 0.00        | 0.00       | 0.00       |
| Temperature Lag 10 | 0.00        | 0.00       | 0.00       |
|                                | Singapore Mean | Singapore Max | Singapore Min |
|--------------------------------|----------------|---------------|---------------|
| Own Counts Lag 1               | 0.84           | 0.84          | 0.83          |
| Own Counts Lag 2               | 0.01           | 0.02          | 0.00          |
| Own Counts Lag 3               | 0.00           | 0.00          | 0.00          |
| Own Counts Lag 4               | 0.00           | 0.00          | 0.00          |
| Own Counts Lag 5               | 0.00           | 0.00          | 0.00          |
| Own Counts Lag 6               | 0.00           | 0.00          | 0.00          |
| Own Counts Lag 7               | 0.00           | 0.00          | 0.00          |
| Own Counts Lag 8               | 0.00           | 0.00          | 0.00          |
| Own Counts Lag 9               | 0.00           | 0.00          | 0.00          |
| Own Counts Lag 10              | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 1        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 2        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 3        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 4        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 5        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 6        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 7        | 0.01           | 0.01          | 0.00          |
| Absolute Humidity Lag 8        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 9        | 0.00           | 0.00          | 0.00          |
| Absolute Humidity Lag 10       | 0.00           | 0.00          | 0.00          |
| Relative Humidity Lag 1        | 0.00           | 0.00          | 0.00          |
| Relative Humidity Lag 2        | 0.00           | 0.00          | 0.00          |
| Relative Humidity Lag 3        | 0.01           | 0.03          | 0.00          |
| Relative Humidity Lag 4        | 0.00           | 0.00          | 0.00          |
| Relative Humidity Lag 5        | 0.00           | 0.00          | 0.00          |
| Relative Humidity Lag 6        | 0.01           | 0.00          | 0.00          |
| Relative Humidity Lag 7        | 0.00           | 0.01          | 0.00          |
| Relative Humidity Lag 8        | 0.00           | 0.00          | 0.00          |
| Relative Humidity Lag 9        | 0.00           | 0.00          | 0.00          |
| Relative Humidity Lag 10       | 0.00           | 0.00          | 0.00          |
| Total Precipitation Lag 1     | 0.01           | 0.01          | 0.00          |
| Total Precipitation Lag 2     | 0.01           | 0.00          | 0.00          |
| Total Precipitation Lag 3     | 0.00           | 0.00          | 0.00          |
| Total Precipitation Lag 4     | 0.00           | 0.00          | 0.02          |
| Total Precipitation Lag 5     | 0.00           | 0.00          | 0.00          |
| Total Precipitation Lag 6     | 0.00           | 0.00          | 0.00          |
| Total Precipitation Lag 7     | 0.00           | 0.00          | 0.00          |
|                   | Lag 1 | Lag 2 | Lag 3 | Lag 4 | Lag 5 | Lag 6 | Lag 7 | Lag 8 | Lag 9 | Lag 10 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Total Precipitation |       |       |       |       |       |       |       |       |       |        |
| Lag 8             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 9             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 10            | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Temperature       |       |       |       |       |       |       |       |       |       |        |
| Lag 1             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 2             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 3             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 4             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 5             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 6             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 7             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 8             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 9             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 10            | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Connectivity     |       |       |       |       |       |       |       |       |       |        |
| Lag 1             | 0.04  | 0.04  | 0.02  |       |       |       |       |       |       |        |
| Lag 2             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 3             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 4             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 5             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 6             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 7             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 8             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 9             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 10            | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Adjacency        |       |       |       |       |       |       |       |       |       |        |
| Lag 1             | 0.03  | 0.03  | 0.01  |       |       |       |       |       |       |        |
| Lag 2             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 3             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 4             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 5             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 6             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 7             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 8             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 9             | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |
| Lag 10            | 0.00  | 0.00  | 0.00  |       |       |       |       |       |       |        |

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