

Table 8: South America

| Var X | Var Y | $\mathcal{C}(X, Y)$ | p-value | Conditional set                               |
|-------|-------|---------------------|---------|---|
| 1     | 2     | 0.6555              | 0.8821  | {9, 11, 13}                                   |
| 1     | 3     | 0.0                 | 0.8755  | {11, 12, 13}                                  |
| 1     | 4     | 0.13046             | 0.17518 | {11, 13, T}                                   |
| 1     | 5     | 0.0236              | 0.2624  | {11, T}                                       |
| 1     | 6     | 0.0                 | 0.4256  | {2, 3, 5, 7, 8, 13, 15, 16, T}                |
| 1     | 7     | 0.1207              | 0.5292  | {2, 5, 6, 10}                                 |
| 1     | 8     | 0.0                 | 0.4925  | {3, 6, 7, 9, 10, 11, 12, 14, 17, T}           |
| 1     | 9     | 0.0003              | 0.2037  | {11, 12, 13, 17, T}                           |
| 1     | 10    | 0.0016              | 0.4845  | {2, 6, 7}                                     |
| 1     | 11    | 0.1225              | 0.1859  | {3, 5, 9, 12}                                 |
| 1     | 12    | 0.1868              | 0.0449  | {3, 5, 9, 11, 14, T}                          |
| 1     | 13    | 0.0303              | 0.3886  | {4, 9, 11}                                    |
| 1     | 14    | 0.0395              | 0.4866  | {3, 8, 9, 11, 12, T}                          |
| 1     | 15    | 0.0                 | 0.4466  | {3, 6, 9, 11, 13, T}                          |
| 1     | 16    | 0.0                 | 0.4785  | {3, 5, 9, 10, 12, 13, 17}                     |
| 1     | 17    | 0.0                 | 0.4945  | {3, 5, 8, 9, 12, 13}                          |
| 1     | T     | 0.1571              | 0.12479 | {3, 4, 5, 11, 12, 13, 14, 17}                 |
| 2     | 3     | 0.0                 | 0.4555  | {1, 7, 9, 10, 14, T}                          |
| 2     | 4     | 0.020               | 0.4226  | {3, 6, 11, 16, T}                             |
| 2     | 5     | 0.21709             | 0.0569  | {7, 10, 16}                                   |
| 2     | 6     | 0.1342              | 0.1588  | {4, 5, 7, 8, 10, 16}                          |
| 2     | 7     | 0.0241              | 0.1877  | {5, 6}  |
| 2     | 8     | 0.05329             | 0.3036  | {5, 6, 11, 16}                                |
| 2     | 9     | 0.2345              | 0.0524  | {1, 3, 7, 13}                                 |
| 2     | 10    | 0.0                 | 0.4905  | {1, 3, 4, 8, 11, 12, 13, 14, 15, 16, 17}      |
| 2     | 11    | 0.0                 | 0.4835  | {1, 3, 4, 8, 9, 12, 13}                       |
| 2     | 12    | 0.0                 | 0.4615  | {3, 5, 6, 7, 8, 11, 13, 14, 15, 16, 17, T}    |
| 2     | 13    | 0.11                | 0.7842  | {3, 6, 12, 16}                                |
| 2     | 14    | 0.0                 | 0.4595  | {1, 5, 6, 9, 11, 13, 15, 17, T}               |
| 2     | 15    | 0.0                 | 0.4466  | {5, 6, 7, 16, 17}                             |
| 2     | 16    | 0.1678              | 0.1079  | {4, 7, 8, 15, T}                              |
| 2     | 17    | 0.0949              | 0.4316  | {4, 8, 9, 12, 15, T}                          |
| 2     | T     | 0.0                 | 0.4655  | {3, 4, 5, 7, 8, 10, 13, 17}                   |
| 3     | 4     | 0.0                 | 0.4995  | {1, 11, 13, 14, 16, 17, T}                    |
| 3     | 5     | 0.0593              | 0.6774  | {11, T}                                       |
| 3     | 6     | 0.16661             | 0.0971  | {12, 13, T}                                   |
| 3     | 7     | 0.0049              | 0.2735  | {3, 6}  |
| 3     | 8     | 0.0                 | 0.4945  | {1, 2, 10, 15, 16, 17}                        |
| 3     | 9     | 0.00701             | 0.3075  | {11, 12, 13, 17, T}                           |
| 3     | 10    | 0.0                 | 0.4865  | {11, 17, T}                                   |
| 3     | 11    | 0.2287              | 0.0329  | {4, 9, 10, 12, 14, 17, T}                     |
| 3     | 12    | 0.211               | 0.0639  | {11}  |
| 3     | 13    | 0.0305              | 0.3926  | {4, 9, 11, T}                                 |
| 3     | 14    | 0.0447              | 0.1077  | {4, 8, 9, 13, 12, T}                          |
| 3     | 15    | 0.12716             | 0.8132  | {11, 13, T}                                   |
| 3     | 16    | 0.0                 | 0.4815  | {2, 5, 6, 7, 10, 13, 17}                      |
| 3     | 17    | 0.0114              | 0.4625  | {9, 11, 12, T}                                |
| 4     | 11    | 0.113               | 0.3668  | {11, 12, 13, 14, 17}                          |
| 4     | 5     | 0.0                 | 0.4945  | {1, 3, 6, 10, 11, 13, 14, 15, 16, 17, T}      |
| 4     | 6     | 0.06812             | 0.1377  | {1, 2, 7, 10, 11, 16}                         |
| 4     | 7     | 0.0                 | 0.4965  | {2, 5, 6, 9, 11, 16, 17, T}                   |
| 4     | 8     | 0.0                 | 0.4975  | {1, 3, 9, 10, 12, 13, 14, 15, 16, 17, T}      |
| 4     | 9     | 0.4003              | 0.0384  | {1, 2, 6, 11, 16}                             |
| 4     | 10    | 0.0                 | 0.5075  | {1, 5, 9, 7, 11, 13, 14, 15, 16, 17}          |
| 4     | 11    | 0.1323              | 0.1948  | {3, 5, 6, 7, 10, 11, 13, 14, 16, 17}          |
| 4     | 12    | 0.0662              | 0.1645  | {5, 13, 16}                                   |
| 4     | 13    | 0.2691              | 0.0739  | {11}  |
| 4     | 14    | 0.0787              | 0.2817  | {1, 3, 6, 8, 11, 15, 16, T}                   |
| 4     | 15    | 0.01844             | 0.4426  | {6, 10, 14, 16, T}                            |
| 4     | 16    | 0.1071              | 0.2818  | {1, 2, 5, 6, 11, 12, T}                       |
| 4     | 17    | 0.0                 | 0.5075  | {1, 5, 7, 9, 11, 14, 15, T}                   |
| 4     | T     | 0.0                 | 0.4915  | {1, 3, 5, 6, 7, 10, 11, 13, 14, 17}           |
| 5     | 6     | 0.0303              | 0.3036  | {2, 10, 16}                                   |
| 5     | 7     | 0.0017              | 0.3036  | {10}  |
| 5     | 8     | 0.0                 | 0.4915  | {1, 6, 11, 14, 17, T}                         |
| 5     | 9     | 0.0                 | 0.4835  | {2, 6, 7, 12, 15}                             |
| 5     | 10    | 0.0005              | 0.3796  | {2, 6, 7, 12, 15}                             |
| 5     | 11    | 0.0005              | 0.5794  | {3, 4, 6, 12, 13, 14, 17, T}                  |
| 5     | 12    | 0.0                 | 0.4815  | {1, 2, 7, 10, 11, 15, 17, T}                  |
| 5     | 13    | 0.0                 | 0.4785  | {2, 10}                                       |
| 5     | 14    | 0.0037              | 0.7463  | {4, 4, 11, 17, T}                             |
| 5     | 15    | 0.0                 | 0.4975  | {1, 2, 10, 11, 14, 16, T}                     |
| 5     | 16    | 0.0765              | 0.4767  | {11}  |
| 5     | 17    | 0.05079             | 0.6304  | {11, T}                                       |
| 5     | T     | 0.13079             | 0.0961  | {2, 6, 11, 13, 14, 17}                        |
| 6     | 7     | 0.22417             | 0.0452  | {2, 10}                                       |
| 6     | 8     | 0.2011              | 0.0159  | {2, 7, 10, 11, 15, 16}                        |
| 6     | 9     | 0.05495             | 0.6583  | {3, 12, 13}                                   |
| 6     | 10    | 0.00295             | 0.2468  | {2, 5, 7, 11, 15}                             |
| 6     | 11    | 0.0                 | 0.4655  | {1, 7, 10, 14, 16, T}                         |
| 6     | 12    | 0.0                 | 0.4725  | {3, 9, 11, T}                                 |
| 6     | 13    | 0.0099              | 0.6774  | {2, 7, 8, 10, 16}                             |
| 6     | 14    | 0.0                 | 0.4565  | {2, 2, 7, 10, 13, 16}                         |
| 6     | 15    | 0.01                | 0.4466  | {2, 7, 16, 16}                                |
| 6     | 16    | 0.0                 | 0.4815  | {1, 3, 3, 4, 7, 8, 10, 14, 15, 17, T}         |
| 6     | 17    | 0.0                 | 0.4845  | {1, 5, 9, 12, 14, 15, 16}                     |
| 6     | T     | 0.0603              | 0.6274  | {3, 12, 13}                                   |
| 7     | 8     | 0.0                 | 0.4925  | {4, 11}                                       |
| 7     | 9     | 0.0                 | 0.4945  | {11, 13, 17, T}                               |
| 7     | 10    | 0.12542             | 0.1888  | {5, 6, 11}                                    |
| 7     | 11    | 0.0                 | 0.4885  | {9, 12, 14, 17}                               |
| 7     | 12    | 0.0                 | 0.4935  | {5, 9, 14, 16, 17, T}                         |
| 7     | 13    | 0.1312              | 0.4545  | {5, 6, 8, 9, 10, 11}                          |
| 7     | 14    | 0.03068             | 0.5765  | {5, 6, 10, 13}                                |
| 7     | 15    | 0.0                 | 0.5045  | {1, 2, 5, 14, 16, T}                          |
| 7     | 16    | 0.04539             | 0.6604  | {6, 9, 10, 11, 13}                            |
| 7     | 17    | 0.01262             | 0.2007  | {2, 5, 9, 10, T}                              |
| 7     | T     | 0.02387             | 0.4156  | {2, 6, 10, 11, 13, 17}                        |
| 8     | 9     | 0.00495             | 0.3076  | {3, 5, 9, 7, 11, 13, 14, 15, 16, 17}          |
| 8     | 10    | 0.0                 | 0.4975  | {1, 5, 9, 14, 16, 17, T}                      |
| 8     | 11    | 0.00296             | 0.4166  | {2, 4, 6, 9, 10, 12, 14, 16, 17}              |
| 8     | 12    | 0.0                 | 0.4835  | {1, 4, 9, 6, 10, 11, 15, T}                   |
| 8     | 13    | 0.1045              | 0.7792  | {2, 6, 10, 14, 16, 17}                        |
| 8     | 14    | 0.2387              | 0.0549  | {3, 6, 11, 12, 16, 16}                        |
| 8     | 15    | 0.0                 | 0.5075  | {3, 5, 9, 12, 16, 17}                         |
| 8     | 16    | 0.147               | 0.1479  | {2, 5, 9, 14, 15, T}                          |
| 8     | 17    | 0.02849             | 0.28307 | {2, 6, 7, 9, 11, 14, 15, T}                   |
| 8     | T     | 0.0                 | 0.4915  | {2, 4, 5, 7, 10, 11, 14, 15, 16}              |
| 9     | 10    | 0.0                 | 0.4825  | {2, 7, 7, 8, 11, 12, 13, 15, 16, 17, T}       |
| 9     | 11    | 0.0                 | 0.4875  | {1, 5, 9, 10, 12, 15, 17, T}                  |
| 9     | 12    | 0.1205              | 0.1918  | {1, 5, 9, 7, 10, 11, 17}                      |
| 9     | 13    | 0.05992             | 0.3397  | {2, 6}  |
| 9     | 14    | 0.0                 | 0.4925  | {3, 4, 5, 7, 16, T}                           |
| 9     | 15    | 0.0                 | 0.4945  | {3, 6, 7, 11, 13}                             |
| 9     | 16    | 0.00228             | 0.7163  | {7, 10, 11, 13, 17}                           |
| 9     | 17    | 0.2354              | 0.0091  | {3, 7, 12, 15, T}                             |
| 9     | T     | 0.0                 | 0.4785  | {3, 6, 7, 10, 13, 14, 17}                     |
| 10    | 11    | 0.172               | 0.1079  | {3, 6, 7, 12, 15}                             |
| 10    | 12    | 0.0251              | 0.4226  | {1, 5, 5, 9, 6, 7, 9, 11, 15}                 |
| 10    | 13    | 0.0                 | 0.4675  | {2, 5, 6, 7, 12, 13}                          |
| 10    | 14    | 0.0                 | 0.4725  | {5, 7, 11, 13}                                |
| 10    | 15    | 0.1658              | 0.1918  | {6, 12}                                       |
| 10    | 16    | 0.06372             | 0.6643  | {6, 7, 9, 11, 13}                             |
| 10    | 17    | 0.0                 | 0.4915  | {2, 5, 9, 6, 7, 9, 11, 12, 13, 14, 15, 16, T} |
| 10    | T     | 0.0                 | 0.4715  | {2, 5, 6}                                     |
| 11    | 12    | 0.3081              | 0.026   | {1, 2, 5, 9, 10}                              |
| 11    | 13    | 0.04171             | 0.3706  | {3, 4, 9}                                     |
| 11    | 14    | 0.0                 | 0.4815  | {2, 3, 4, 5, 8, 10, 12, 15, T}                |
| 11    | 15    | 0.01518             | 0.6774  | {11}  |
| 11    | 16    | 0.01183             | 0.6074  | {9, 10, 12, 13}                               |
| 11    | 17    | 0.0764              | 0.3867  | {2, 4, 5, 9, 10, 12, T}                       |
| 11    | T     | 0.0                 | 0.4795  | {3, 4, 5, 7, 9, 10, 12, 13, 14, 17}           |
| 12    | 13    | 0.0764              | 0.7043  | {1, 2, 5, 10, 16, 17, T}                      |
| 12    | 14    | 0.09182             | 0.3298  | {3, 11, 13}                                   |
| 12    | 15    | 0.0722              | 0.2347  | {1, 2, 5, 6, 10, 14, 16, 17}                  |
| 12    | 16    | 0.0                 | 0.4655  | {3, 6, 7, 10, 13, 15, 17, T}                  |
| 12    | 17    | 0.01146             | 0.3966  | {1, 2, 3, 7, 9, 11, 15, T}                    |
| 12    | T     | 0.0                 | 0.4625  | {1, 2, 2, 7, 9, 10, 11, 13, 14, 15, 17}       |
| 13    | 14    | 0.0                 | 0.4385  | {2, 3, 5, 7, 8, 16, 17}                       |
| 13    | 15    | 0.0332              | 0.5314  | {2, 6, 10, 12, 16, 17}                        |
| 13    | 16    | 0.00298             | 0.5285  | {2, 5, 8, 9, 12, 15, T}                       |
| 13    | 17    | 0.0027              | 0.7453  | {2, 8, 16, 16, T}                             |
| 13    | T     | 0.0                 | 0.4416  | {2, 8, 9, 11, 14, 16}                         |
| 14    | 15    | 0.0                 | 0.4385  | {4, 5, 7, 8, 10, 12, 16, T}                   |
| 14    | 16    | 0.0                 | 0.4316  | {3, 7, 8, 10, 17}                             |
| 14    | 17    | 0.0                 | 0.4625  | {2, 4, 6, 7, 8, 12, 13, 16, T}                |
| 14    | T     | 0.0111              | 0.1167  | {3, 4, 8, 11, 12, 17}                         |
| 15    | 16    | 0.11925             | 0.1858  | {2, 4, 5, 6, 12, T}                           |
| 15    | 17    | 0.0517              | 0.3546  | {2, 5, 9, 10, 12, 16, T}                      |
| 15    | T     | 0.0                 | 0.4915  | {4, 7, 9, 10, 11, 13, 14}                     |
| 16    | 17    | 0.0                 | 0.4835  | {7, 11}                                       |
| 16    | T     | 0.0                 | 0.44126 | {1, 2, 3, 7, 10, 11, 14, 15, 17}              |
| 17    | T     | 0.19665             | 0.08429 | {1, 2, 3, 7, 9, 11}                           |