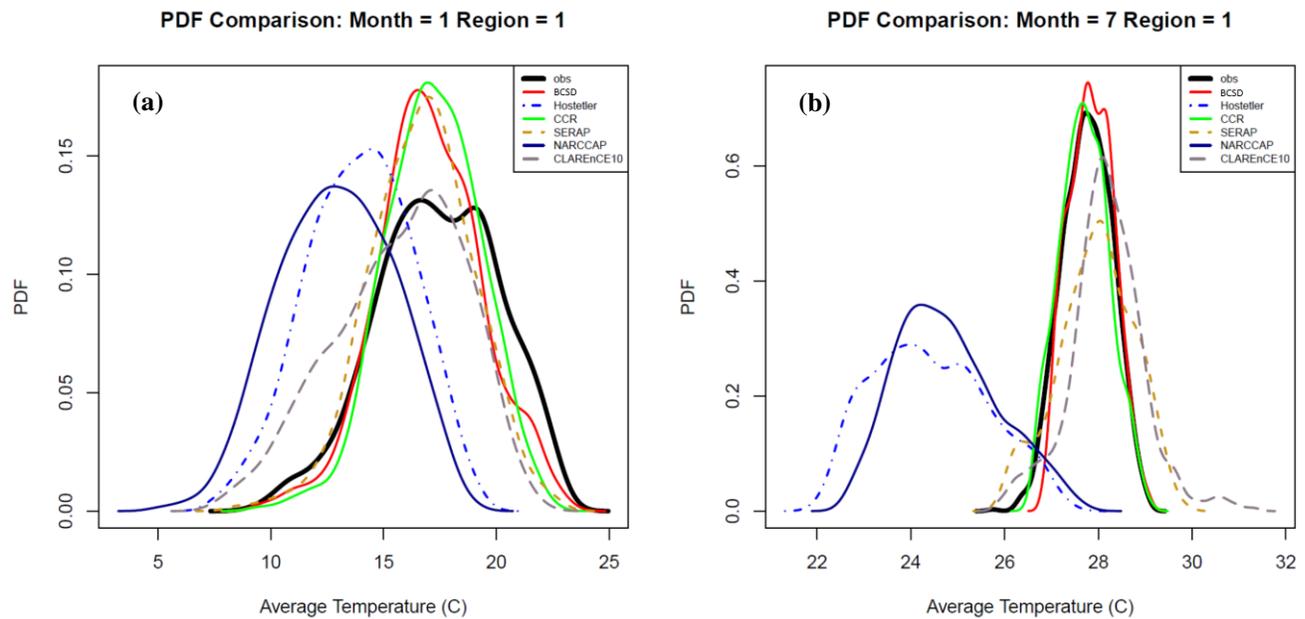


Appendix 4 – Probability Distribution Functions (PDFs) for All Subregions

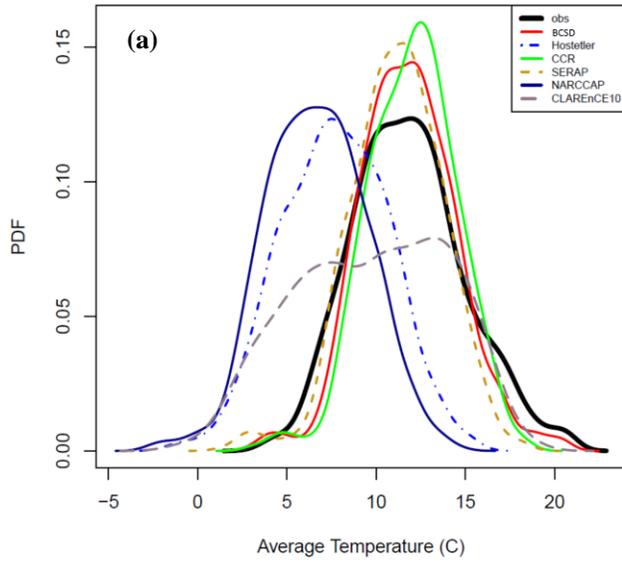
In Chapters 3 and 4, the distribution of temperature and precipitation was discussed through the use of probability distribution functions (PDFs). While some examples were provided in Chapters 3 and 4, this appendix provides all the January and July PDFs for temperature and precipitation in each of the 14 subregions discussed in the earlier chapters. Recall that PDFs are unitless value but represents the frequency with which a value of temperature or precipitation occurs.

January and July PDFs for temperature

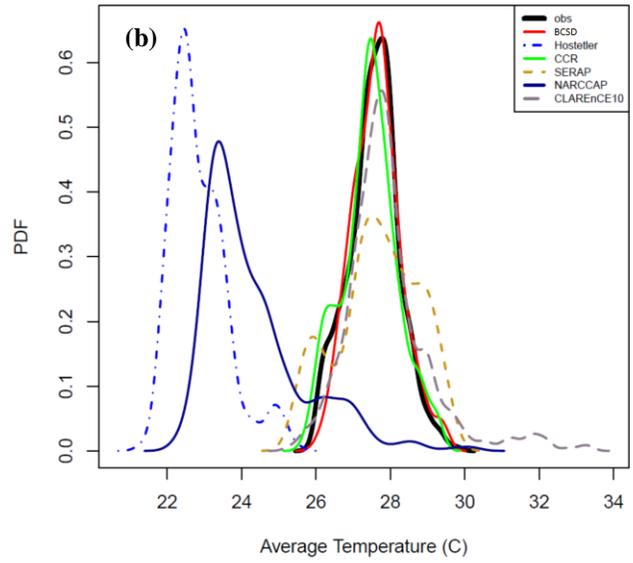


PDFs for temperature for (a) January and (b) July for Region 1 – Southern Florida

PDF Comparison: Month = 1 Region = 2

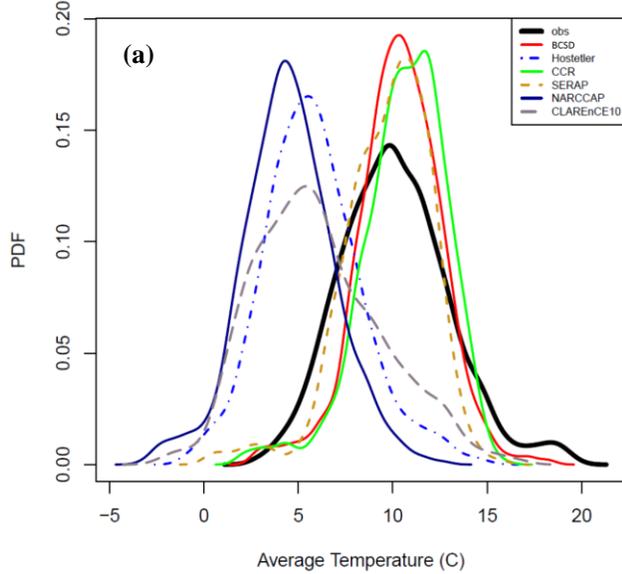


PDF Comparison: Month = 7 Region = 2

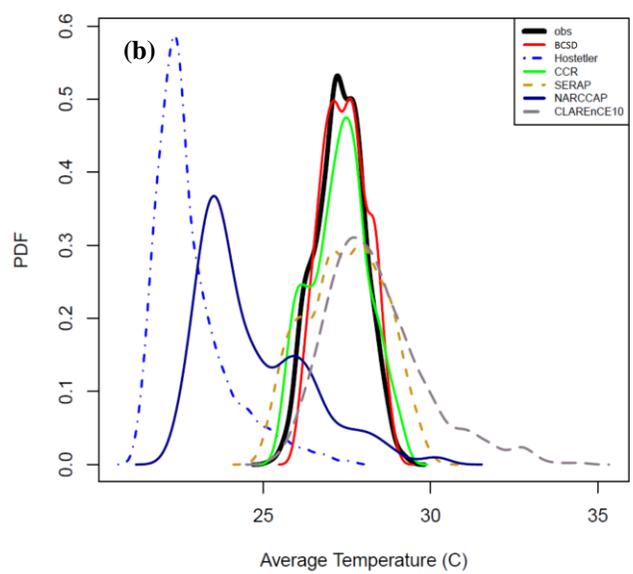


PDFs for temperature for (a) January and (b) July for Region 2 – Northeast Florida / Georgia Coast

PDF Comparison: Month = 1 Region = 3

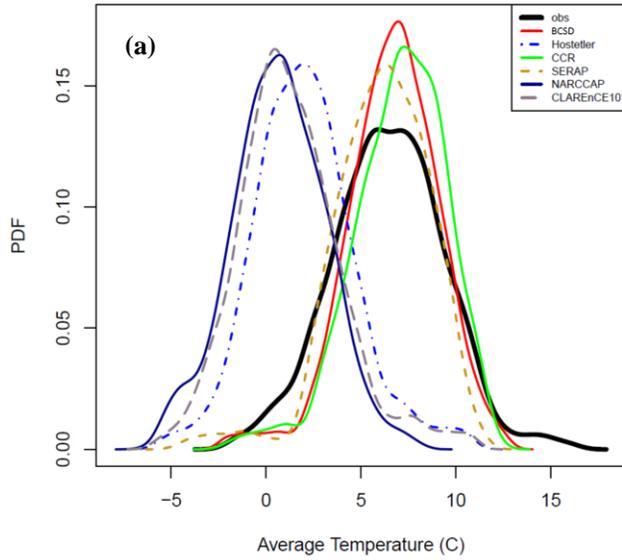


PDF Comparison: Month = 7 Region = 3

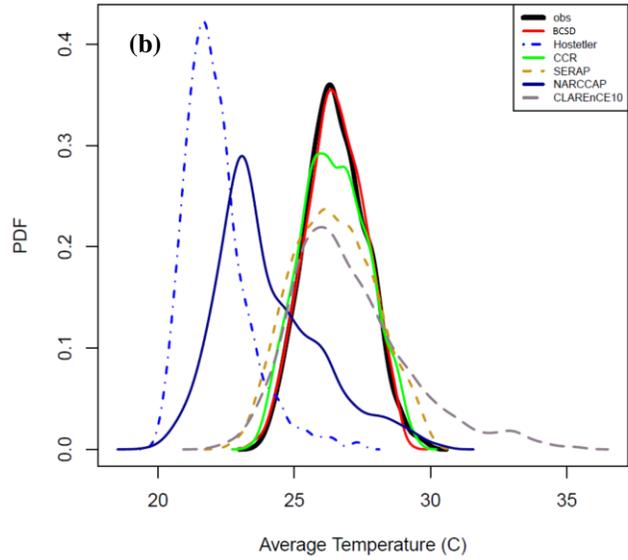


PDFs for temperature for (a) January and (b) July for Region 3 – Northern Gulf Coast of Florida

PDF Comparison: Month = 1 Region = 4

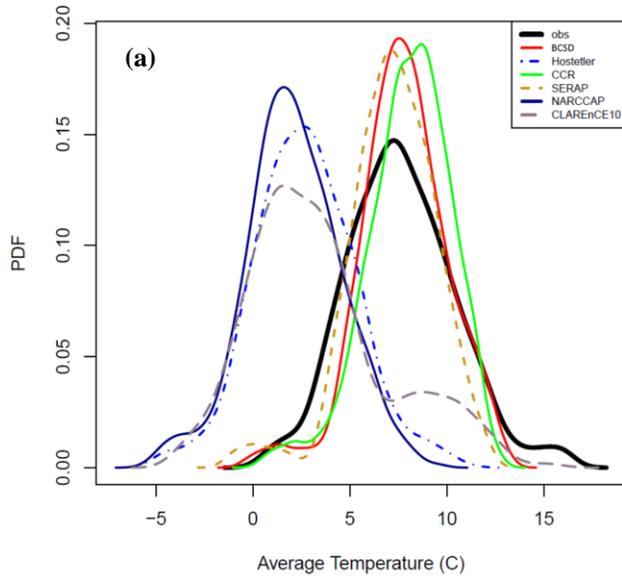


PDF Comparison: Month = 7 Region = 4

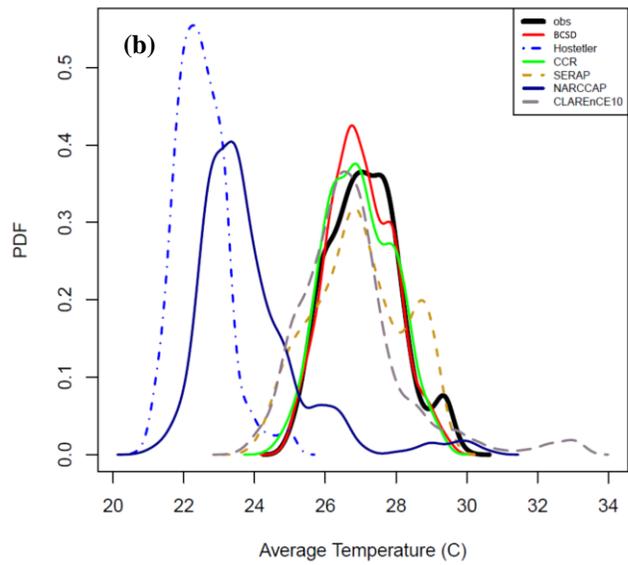


PDFs for temperature for (a) January and (b) July for Region 4 – Alabama / Western Georgia

PDF Comparison: Month = 1 Region = 5

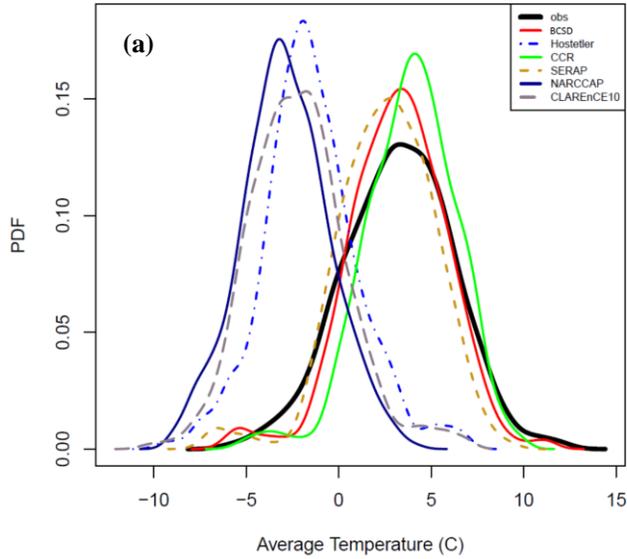


PDF Comparison: Month = 7 Region = 5

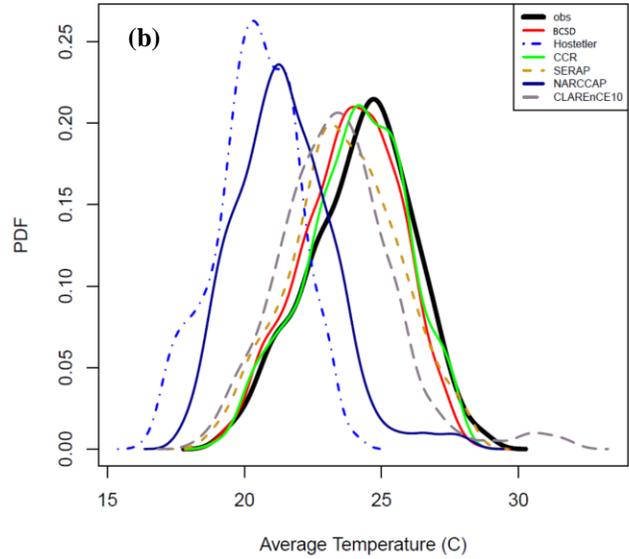


PDFs for temperature for (a) January and (b) July for Region 5 – South Carolina

PDF Comparison: Month = 1 Region = 6

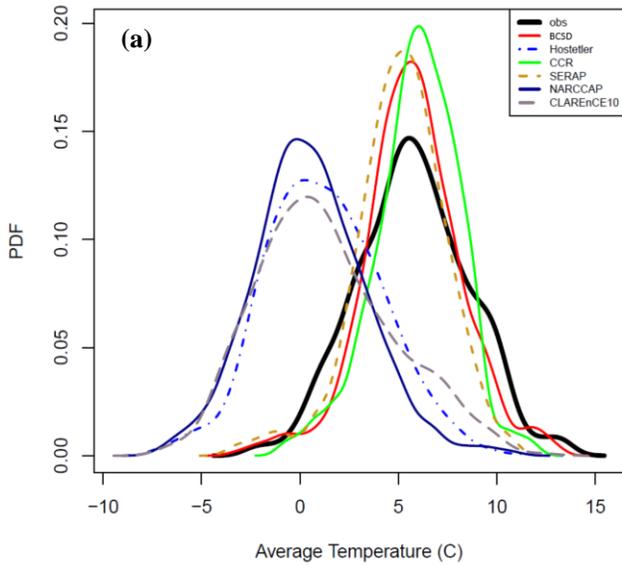


PDF Comparison: Month = 7 Region = 6

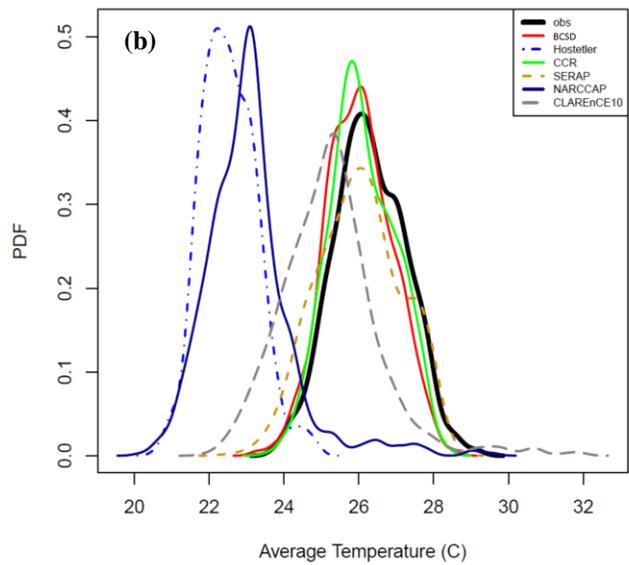


PDFs for temperature for (a) January and (b) July for Region 6 – Southern Appalachians

PDF Comparison: Month = 1 Region = 7

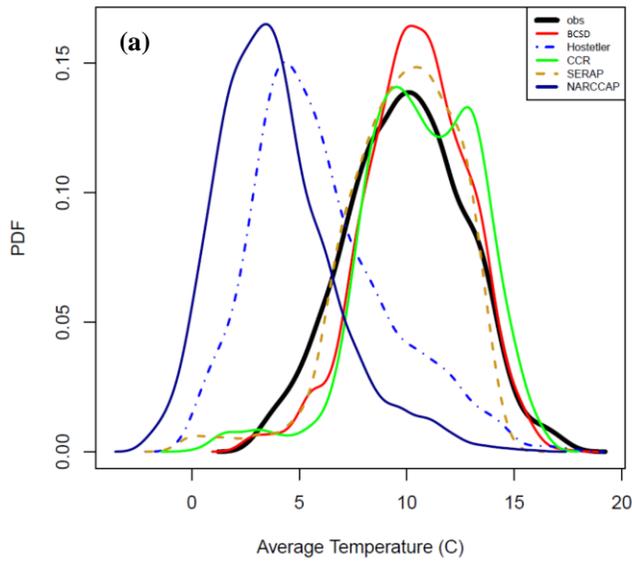


PDF Comparison: Month = 7 Region = 7

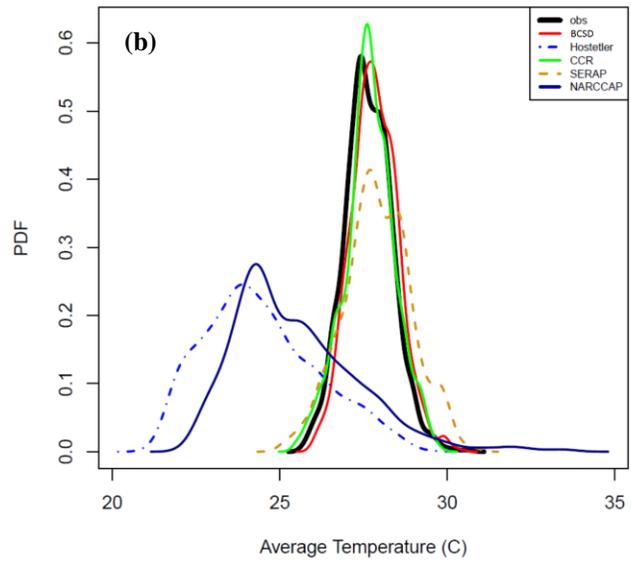


PDFs for temperature for (a) January and (b) July for Region 7 – Eastern North Carolina

PDF Comparison: Month = 1 Region = 8

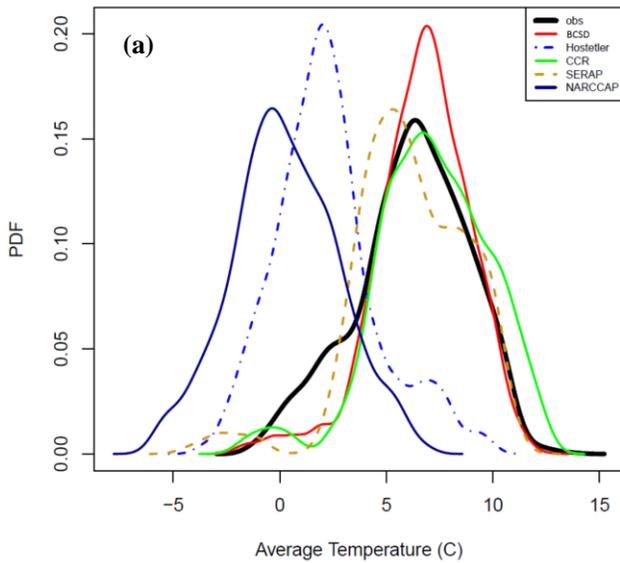


PDF Comparison: Month = 7 Region = 8

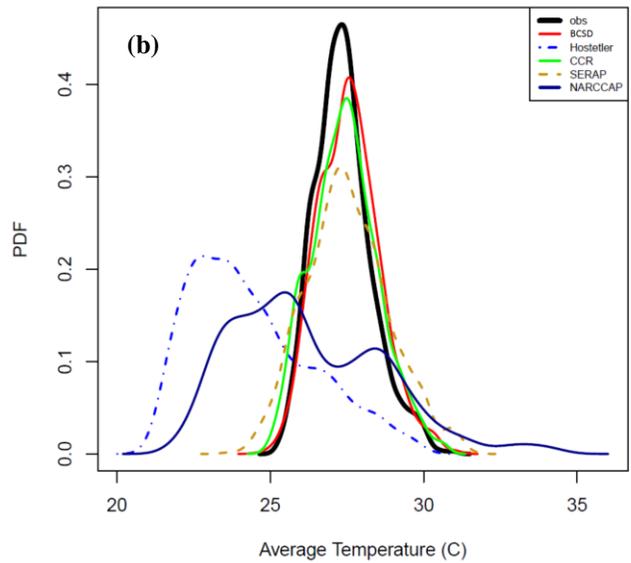


PDFs for temperature for (a) January and (b) July for Region 8 – Louisiana / Mississippi Coast

PDF Comparison: Month = 1 Region = 9

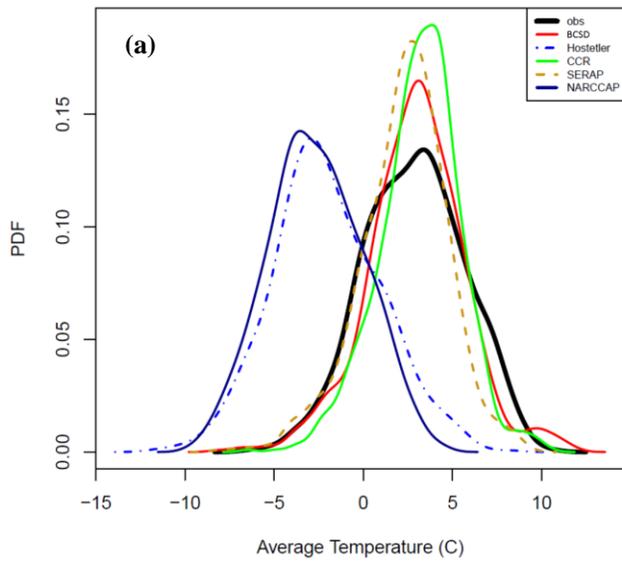


PDF Comparison: Month = 7 Region = 9

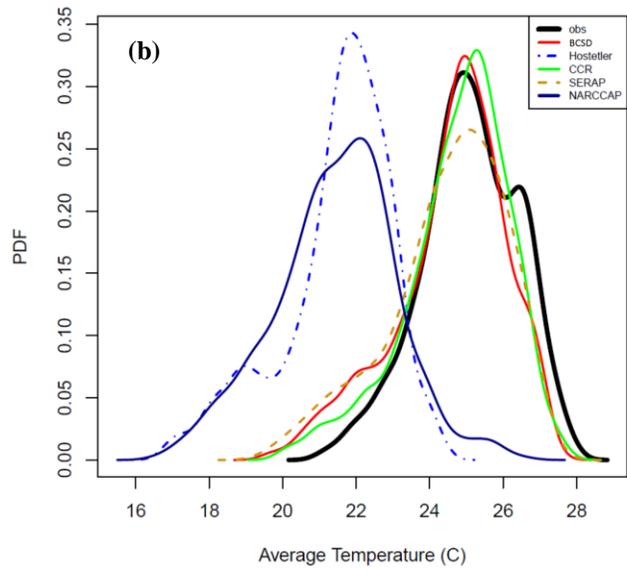


PDFs for temperature for (a) January and (b) July for Region 9 – Northern Louisiana / Southern Arkansas

PDF Comparison: Month = 1 Region = 10

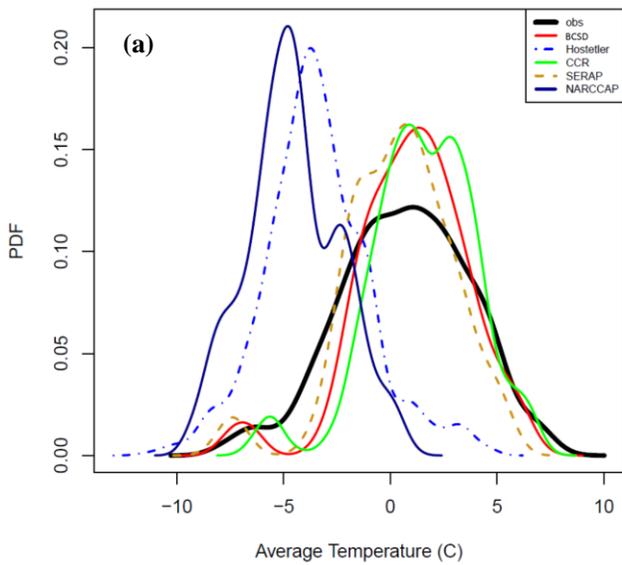


PDF Comparison: Month = 7 Region = 10

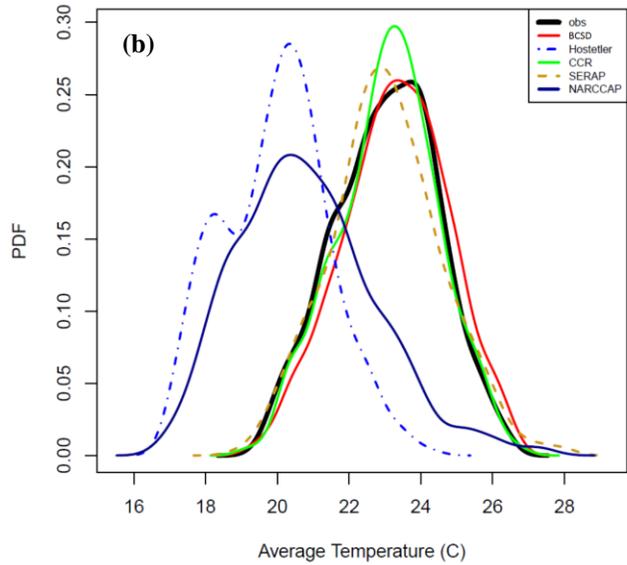


PDFs for temperature for (a) January and (b) July for Region 10 – Southeast Virginia

PDF Comparison: Month = 1 Region = 11

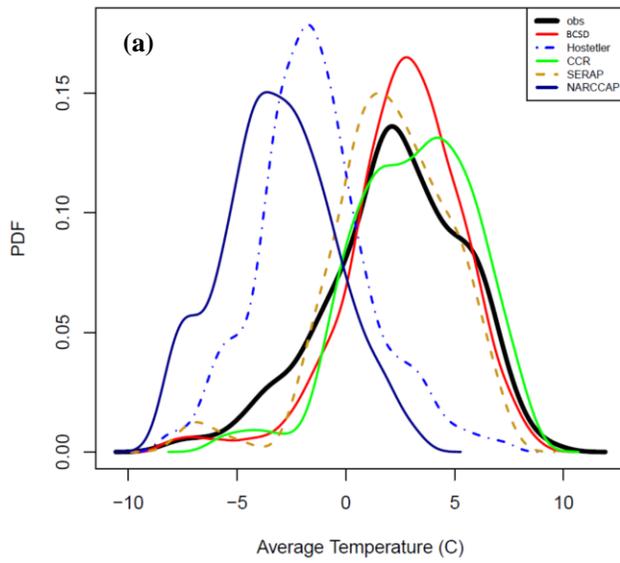


PDF Comparison: Month = 7 Region = 11

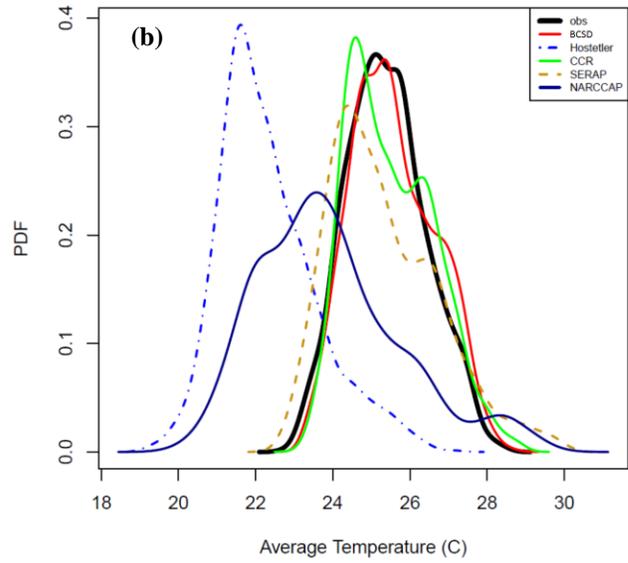


PDFs for temperature for (a) January and (b) July for Region 11 – Western Virginia / Eastern Kentucky

PDF Comparison: Month = 1 Region = 12

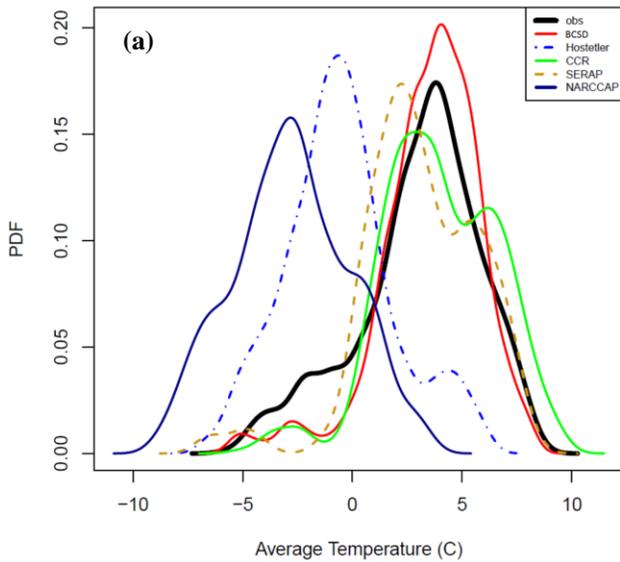


PDF Comparison: Month = 7 Region = 12

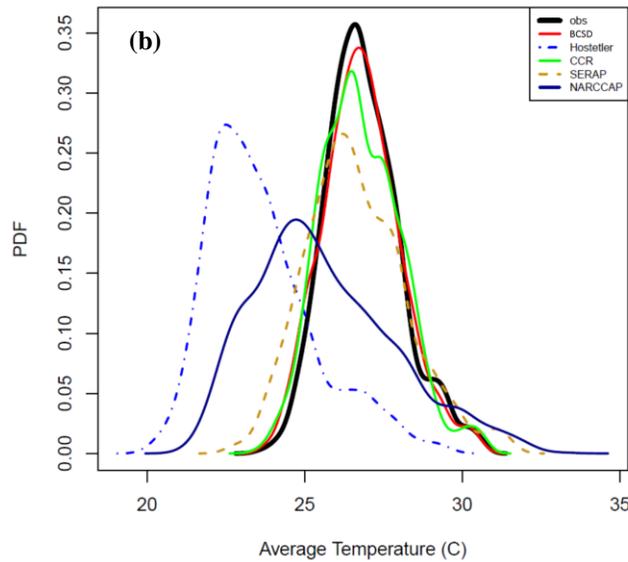


PDFs for temperature for (a) January and (b) July for Region 12 – Western Kentucky/ Tennessee

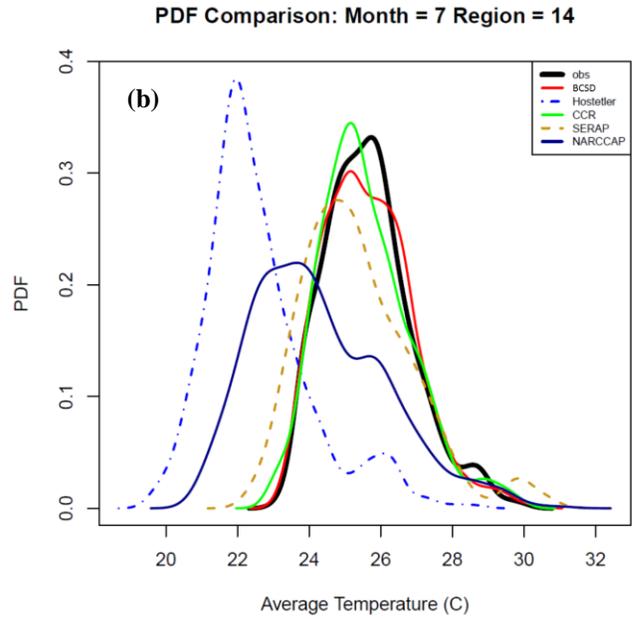
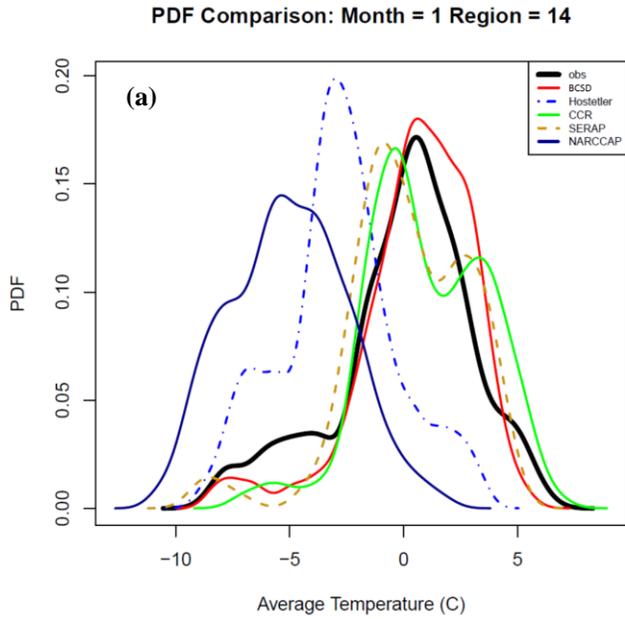
PDF Comparison: Month = 1 Region = 13



PDF Comparison: Month = 7 Region = 13

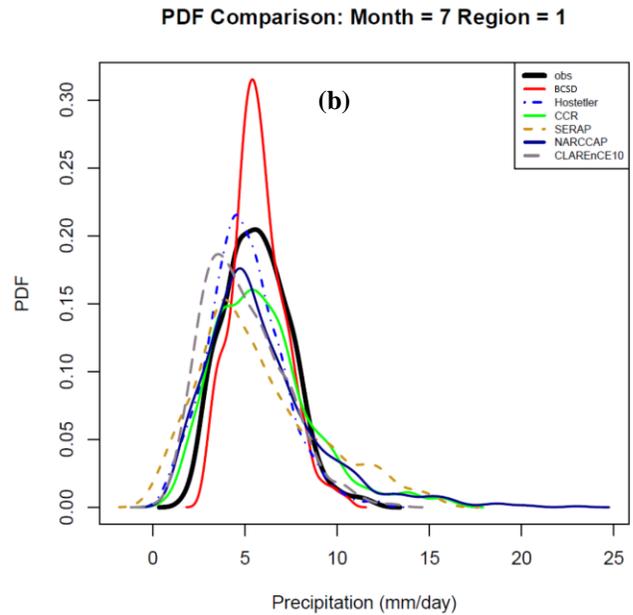
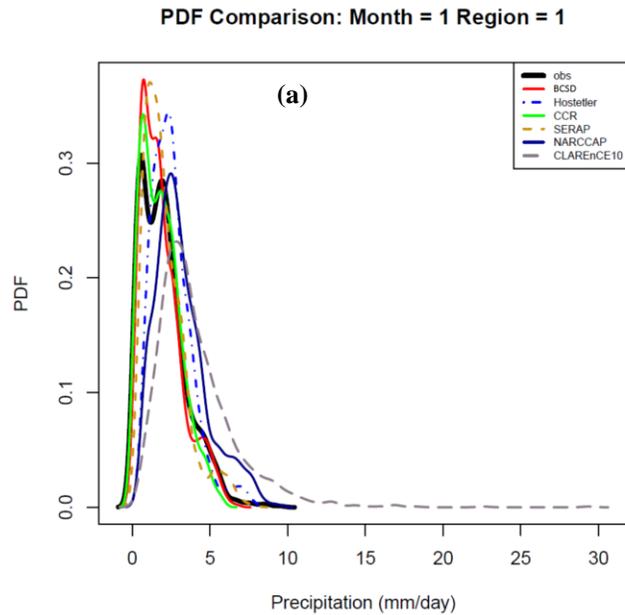


PDFs for temperature for (a) January and (b) July for Region 13 – Northern Arkansas



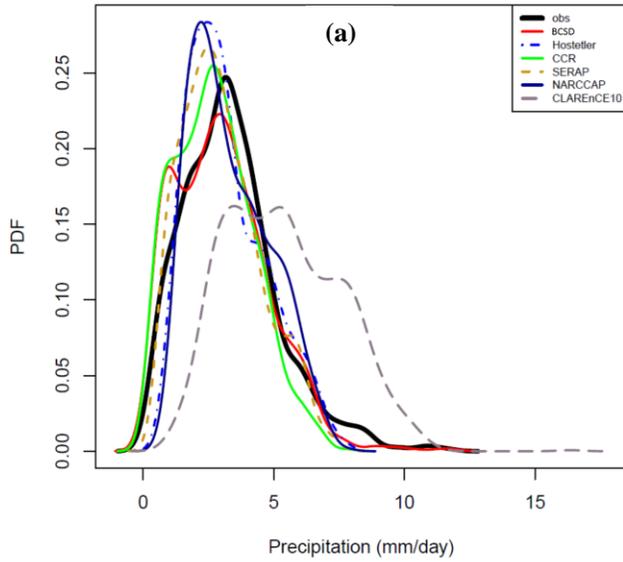
PDFs for temperature for (a) January and (b) July for Region 14 – Southern Missouri

January and July PDFs for precipitation

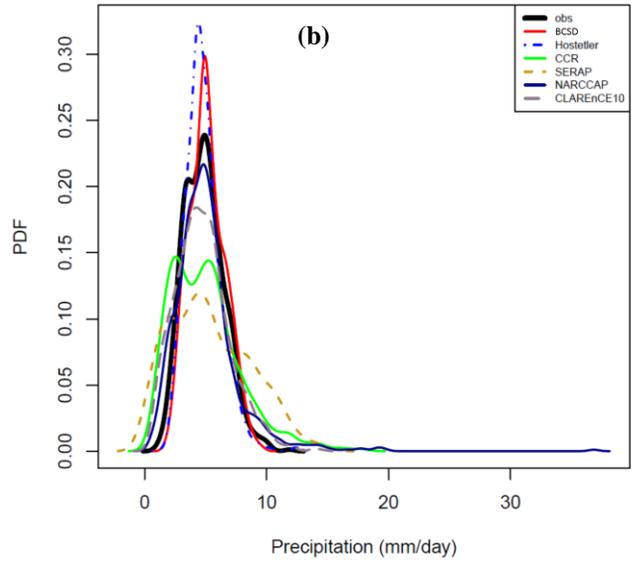


PDFs for precipitation for (a) January and (b) July for Region 1 – Southern Florida

PDF Comparison: Month = 1 Region = 2

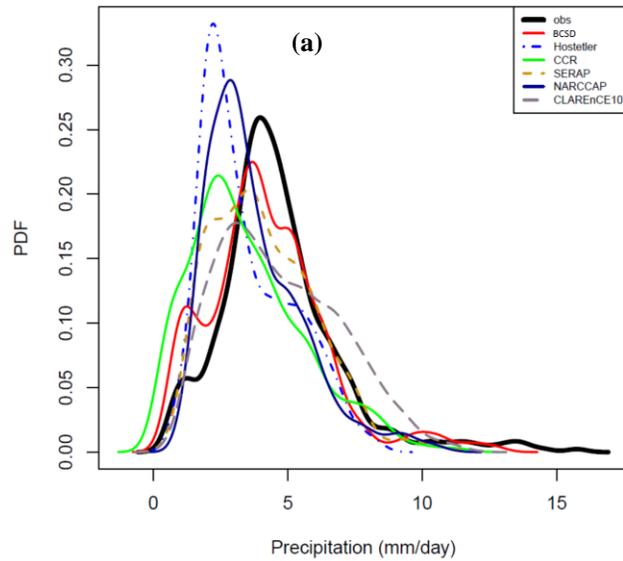


PDF Comparison: Month = 7 Region = 2

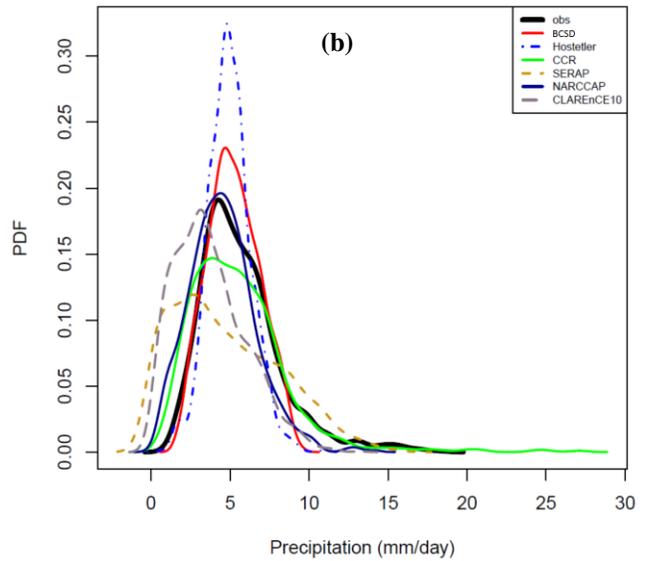


PDFs for precipitation for (a) January and (b) July for Region 2 – Northeast Florida / Georgia Coast

PDF Comparison: Month = 1 Region = 3

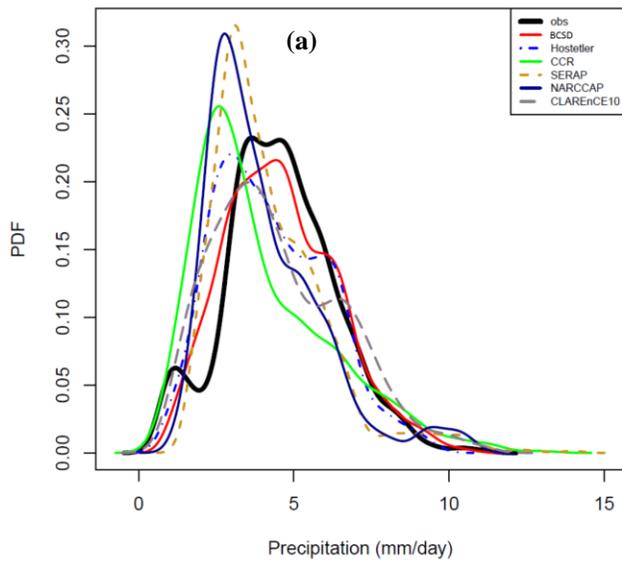


PDF Comparison: Month = 7 Region = 3

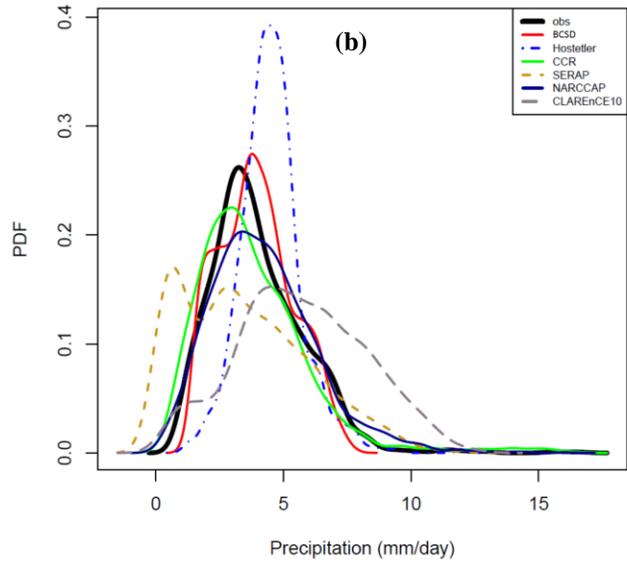


PDFs for precipitation for (a) January and (b) July for Region 3 – Northern Gulf Coast of Florida

PDF Comparison: Month = 1 Region = 4

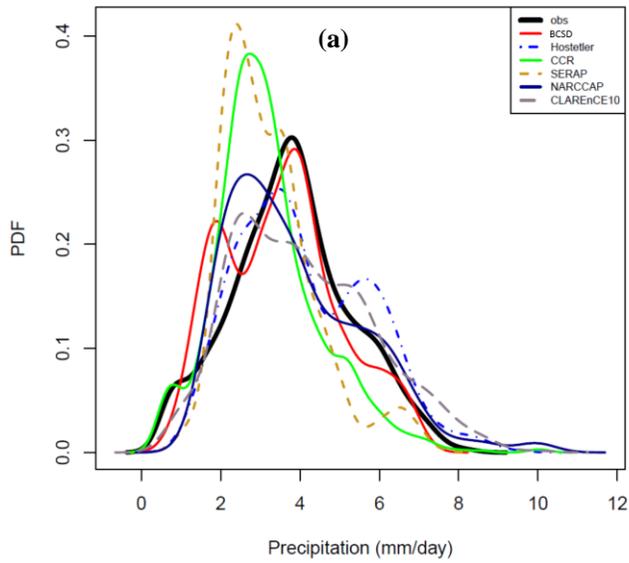


PDF Comparison: Month = 7 Region = 4

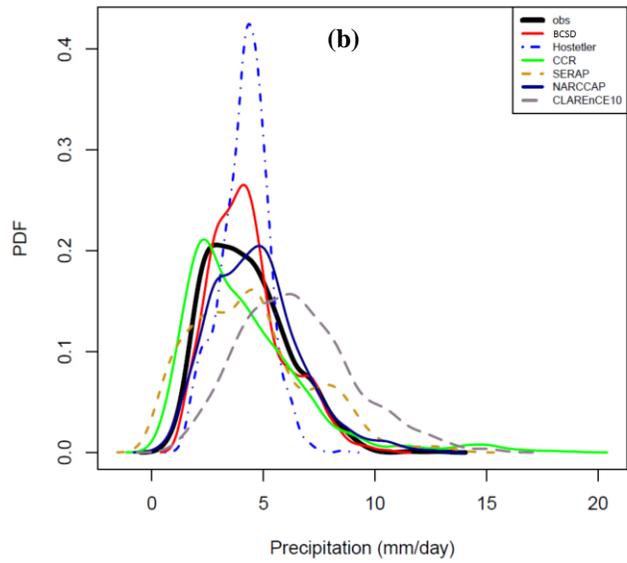


PDFs for precipitation for (a) January and (b) July for Region 4 – Alabama / Western Georgia

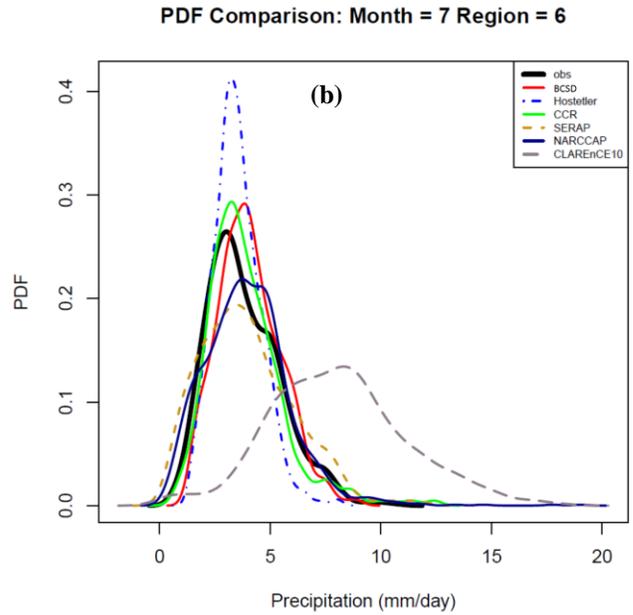
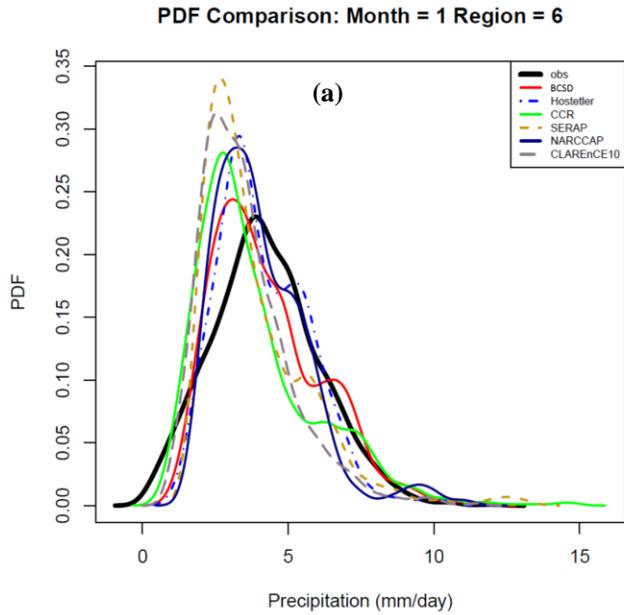
PDF Comparison: Month = 1 Region = 5



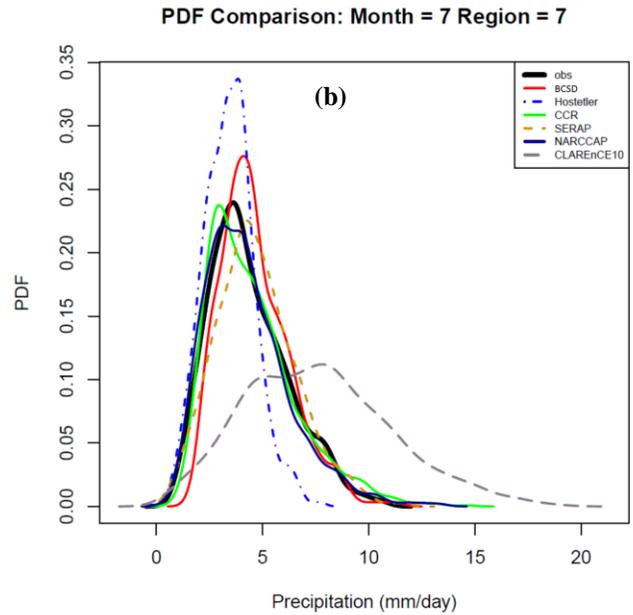
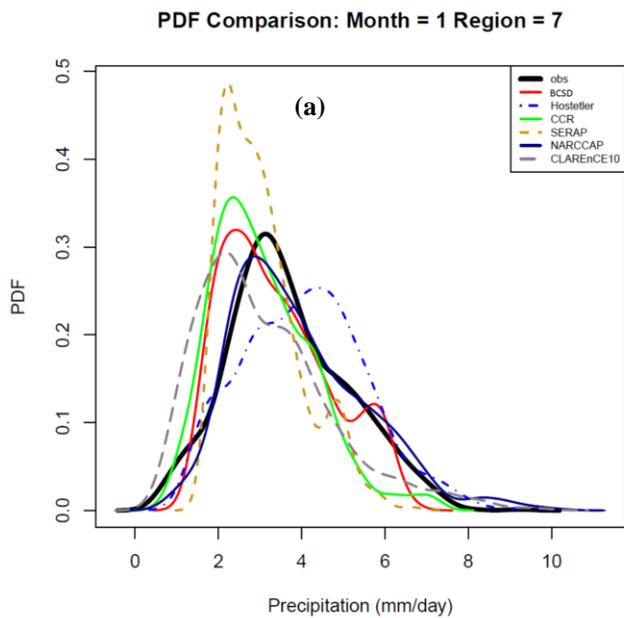
PDF Comparison: Month = 7 Region = 5



PDFs for precipitation for (a) January and (b) July for Region 5 – South Carolina

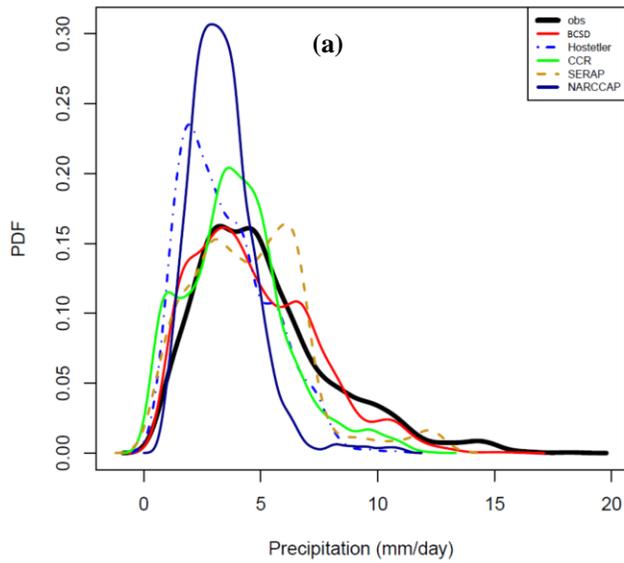


PDFs for precipitation for (a) January and (b) July for Region 6 – Southern Appalachians

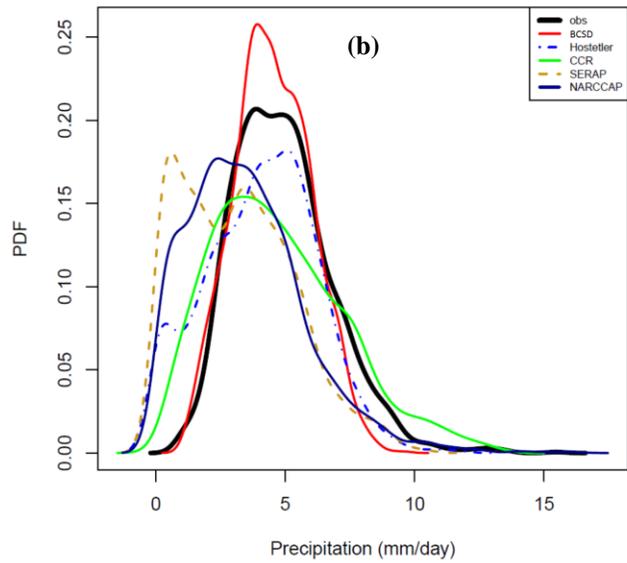


PDFs for precipitation for (a) January and (b) July for Region 7 – Eastern North Carolina

PDF Comparison: Month = 1 Region = 8

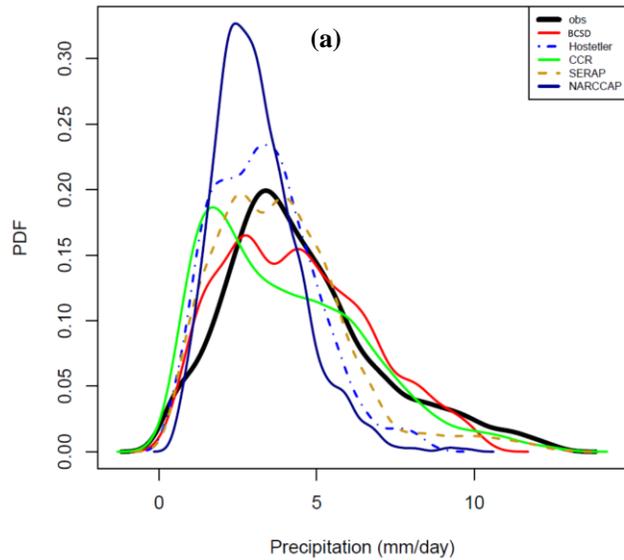


PDF Comparison: Month = 7 Region = 8

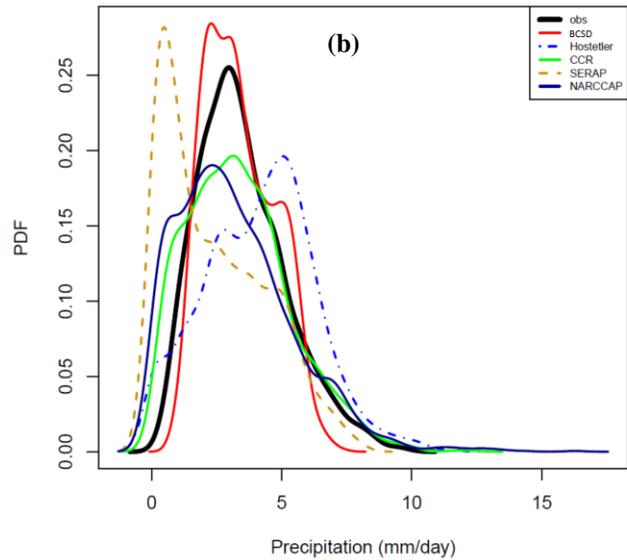


PDFs for precipitation for (a) January and (b) July for Region 8 – Louisiana / Mississippi Coast

PDF Comparison: Month = 1 Region = 9

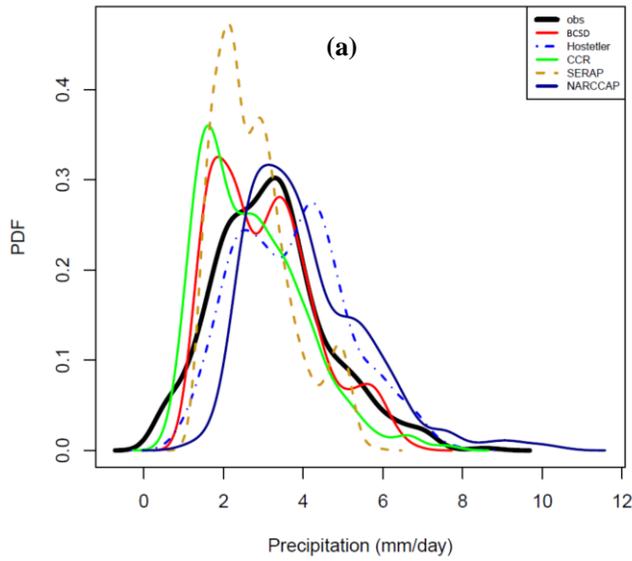


PDF Comparison: Month = 7 Region = 9

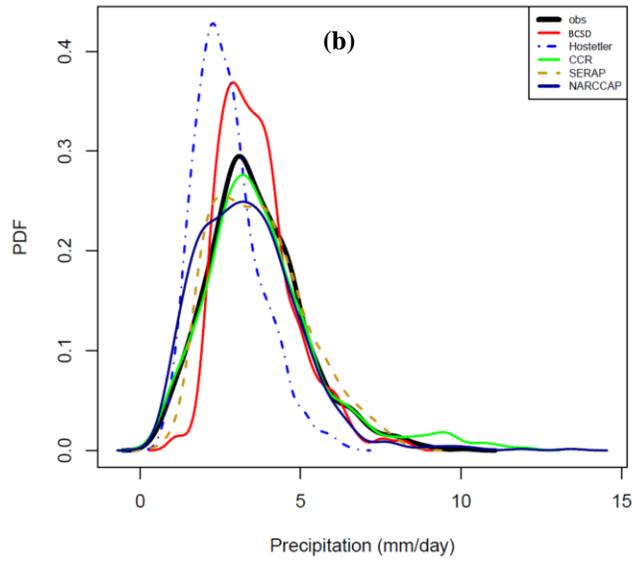


PDFs for precipitation for (a) January and (b) July for Region 9 – Northern Louisiana / Southern Arkansas

PDF Comparison: Month = 1 Region = 10

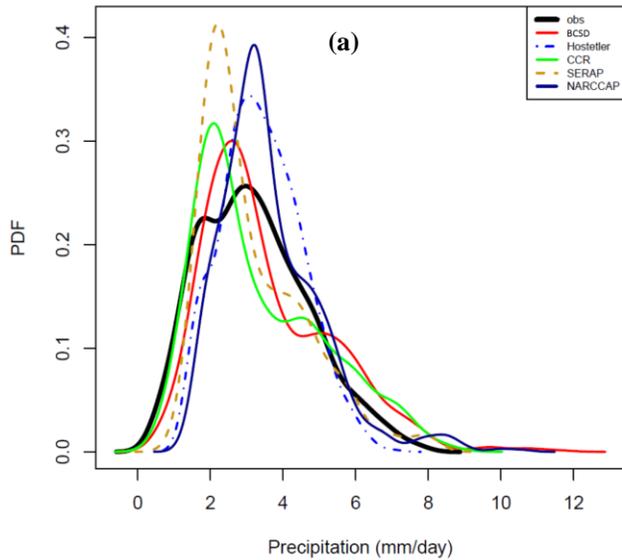


PDF Comparison: Month = 7 Region = 10

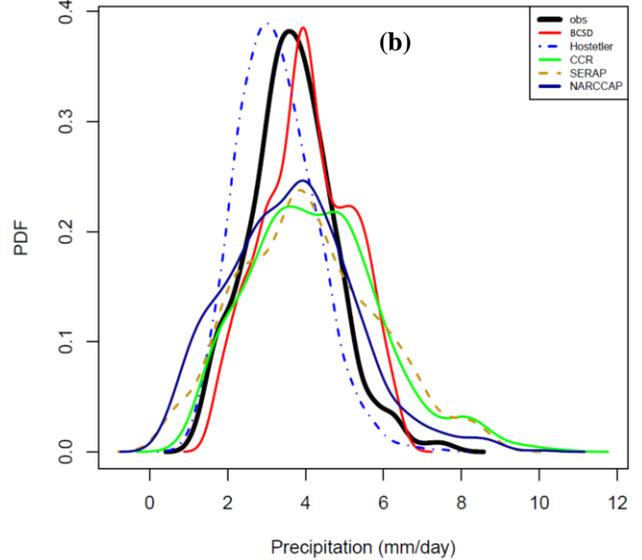


PDFs for precipitation for (a) January and (b) July for Region 10 – Southeast Virginia

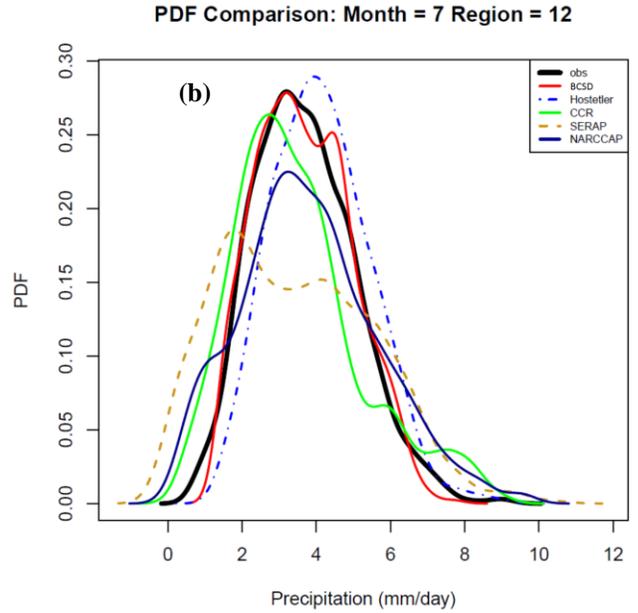
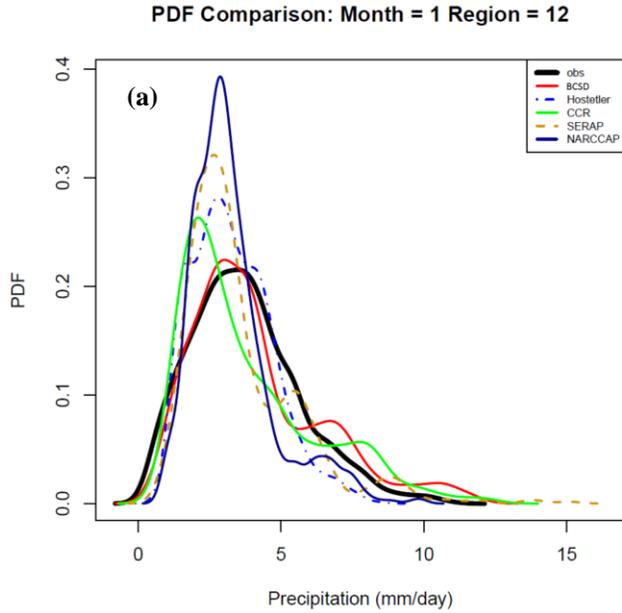
PDF Comparison: Month = 1 Region = 11



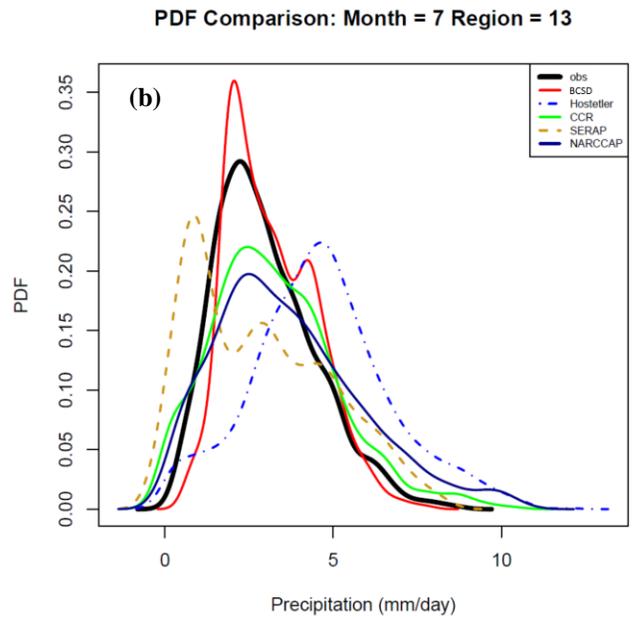
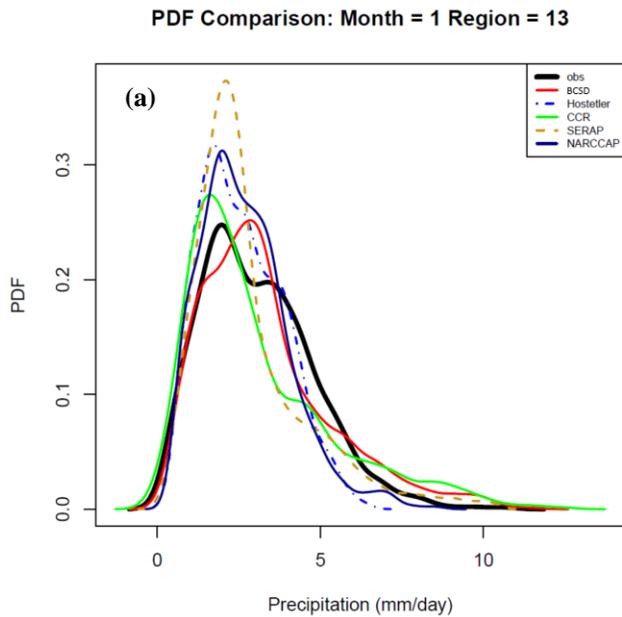
PDF Comparison: Month = 7 Region = 11



PDFs for precipitation for (a) January and (b) July for Region 11 – Western Virginia / Eastern Kentucky

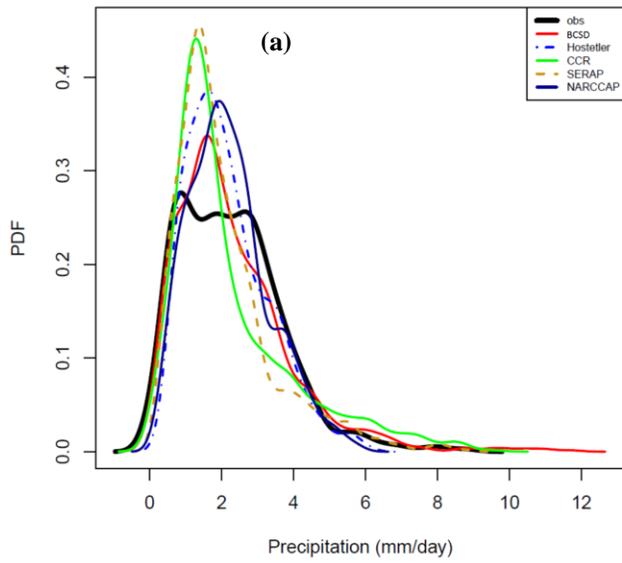


PDFs for precipitation for (a) January and (b) July for Region 12 – Western Kentucky / Tennessee

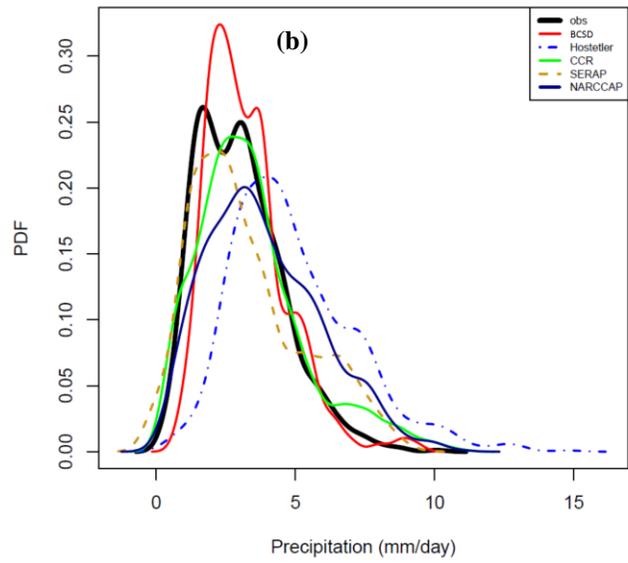


PDFs for precipitation for (a) January and (b) July for Region 13 – Northern Arkansas

PDF Comparison: Month = 1 Region = 14



PDF Comparison: Month = 7 Region = 14



PDFs for precipitation for (a) January and (b) July for Region 14 – Southern Missouri