Appendix 2 – Bias and Standard Deviation Difference Maps 50 and 15 km Resolutions

In Chapters 3 and 4, the bias and standard deviation difference were used with 50 km resolution maps as part of the discussion of downscaled datasets across the Southeast U.S. In this appendix, both 50 km and 15 km resolution maps are shown for the bias and standard deviation difference from monthly temperature and precipitation for each month across the domain.

Bias for Average Monthly Temperature – 50 km

January Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
February Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

March Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
April Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

May Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
June Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

July Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
August Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

September Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
October Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

November Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
December Bias for Average Monthly Temperature (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

Standard Deviation Difference for Average Monthly Temperatures – 50 km

January Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
February Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

March Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
April Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

May Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
June Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

July Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
August Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

September Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
October Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

November Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
October Standard Deviation Difference for Monthly Temperatures (°C) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

Bias for Average Monthly Temperature – 15 km

January Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
February Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

March Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
April Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

May Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
June Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

July Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
August Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

September Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
October Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

November Bias for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
December Bias for Average Monthly Temperature ($^\circ$C) at 15km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

Standard Deviation Difference for Average Monthly Temperatures – 15 km

January Standard Deviation Difference for Average Monthly Temperature ($^\circ$C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
February Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

March Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
April Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

May Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
June Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

July Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
August Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

September Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
October Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

November Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
December Standard Deviation Difference for Average Monthly Temperature (°C) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

Bias for Average Monthly Precipitation – 50 km

January Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
February Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

March Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
April Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

May Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
June Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

July Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
August Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

September Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
October Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

November Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
December Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

Standard Deviation Difference for Average Monthly Precipitation – 50 km

January Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
February Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

March Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
April Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.

May Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP.
June Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

July Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
August Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

September Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
October Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

November Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
December Standard Deviation Difference for Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP

Bias for Average Monthly Precipitation – 15 km

January Bias for Average Monthly Precipitation (mm/day) at 50 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) NARCCAP, (d) CCR, (e) BCSD, and (f) SERAP
February Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

March Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
April Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

May Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
June Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

July Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
August Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

September Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
October Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

November Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
December Bias for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

Standard Deviation Difference for Average Monthly Precipitation – 15 km

January Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
February Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

March Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
April Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

May Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
June Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

July Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
August Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

September Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
October Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP

November Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP
December Standard Deviation Difference for Average Monthly Precipitation (mm/day) at 15 km resolution for (a) CLAREnCE10, (b) Hostetler, (c) CCR, (d) BCSD, and (e) SERAP