Table 3.S1 The USCRN study site information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| USCRN sites | Lat. | Lon. | USCRN sites | Lat. | Lon. |
| AL\_Gadsden\_19\_N | 34.29 | -85.96 | CO\_Montrose\_11\_ENE | 38.54 | -107.69 |
| GA\_Newton\_11\_SW | 31.19 | -84.45 | CO\_Nunn\_7\_NNE | 40.81 | -104.76 |
| GA\_Newton\_8\_W | 31.31 | -84.47 | KS\_Oakley\_19\_SSW | 38.87 | -100.96 |
| IA\_Des\_Moines\_17\_E | 41.56 | -93.29 | MT\_Wolf\_Point\_29\_ENE | 48.31 | -105.1 |
| IL\_Shabbona\_5\_NNE | 41.84 | -88.85 | MT\_Wolf\_Point\_34\_NE | 48.49 | -105.21 |
| IN\_Bedford\_5\_WNW | 38.89 | -86.57 | NE\_Harrison\_20\_SSE | 42.42 | -103.74 |
| MN\_Goodridge\_12\_NNW | 48.31 | -95.87 | NE\_Whitman\_5\_ENE | 42.07 | -101.44 |
| MO\_Chillicothe\_22\_ENE | 39.87 | -93.15 | NM\_Las\_Cruces\_20\_N | 32.61 | -106.74 |
| MO\_Joplin\_24\_N | 37.43 | -94.58 | NM\_Socorro\_20\_N | 34.36 | -106.89 |
| MS\_Holly\_Springs\_4\_N | 34.82 | -89.43 | OK\_Goodwell\_2\_E | 36.6 | -101.59 |
| ND\_Northgate\_5\_ESE | 48.97 | -102.17 | OK\_Goodwell\_2\_SE | 36.57 | -101.61 |
| SD\_Aberdeen\_35\_WNW | 45.71 | -99.13 | OK\_Stillwater\_2\_W | 36.12 | -97.09 |
| SD\_Sioux\_Falls\_14\_NNE | 43.73 | -96.62 | OK\_Stillwater\_5\_WNW | 36.13 | -97.11 |
| AZ\_Williams\_35\_NNW | 35.76 | -112.34 | SD\_Buffalo\_13\_ESE | 45.52 | -103.3 |
| AZ\_Yuma\_27\_ENE | 32.84 | -114.19 | SD\_Pierre\_24\_S | 44.02 | -100.35 |
| CA\_Merced\_23\_WSW | 37.24 | -120.88 | TX\_Bronte\_11\_NNE | 32.04 | -100.25 |
| ID\_Arco\_17\_SW | 43.46 | -113.56 | TX\_Monahans\_6\_ENE | 31.62 | -102.81 |
| ID\_Murphy\_10\_W | 43.2 | -116.75 | TX\_Muleshoe\_19\_S | 33.96 | -102.77 |
| NV\_Baker\_5\_W | 39.01 | -114.21 | TX\_Panther\_Junction\_2\_N | 29.35 | -103.21 |
| NV\_Denio\_52\_WSW | 41.85 | -119.64 | WY\_Sundance\_8\_NNW | 44.52 | -104.44 |
| NV\_Mercury\_3\_SSW | 36.62 | -116.02 | TX\_Austin\_33\_NW | 30.62 | -98.08 |
| OR\_John\_Day\_35\_WNW | 44.56 | -119.65 | TX\_Edinburg\_17\_NNE | 26.53 | -98.06 |
| OR\_Riley\_10\_WSW | 43.47 | -119.69 | TX\_Palestine\_6\_WNW | 31.78 | -95.72 |
| UT\_Brigham\_City\_28\_WNW | 41.62 | -112.54 | CO\_Cortez\_8\_SE | 37.26 | -108.5 |
| WA\_Spokane\_17\_SSW | 47.42 | -117.53 | CO\_Dinosaur\_2\_E | 40.24 | -108.97 |
| OH\_Coshocton\_8\_NNE | 40.37 | -81.78 | WY\_Lander\_11\_SSE | 42.68 | -108.67 |
| OH\_Wooster\_3\_SSE | 40.76 | -81.91 | ND\_Medora\_7\_E | 46.89 | -103.38 |
| SC\_Blackville\_3\_W | 33.36 | -81.33 | MT\_Dillon\_18\_WSW | 45.16 | -113.01 |
| CO\_La\_Junta\_17\_WSW | 37.86 | -103.82 | MT\_St.\_Mary\_1\_SSW | 48.74 | -113.43 |