**Data Codebook**

**Month**: Month of the observation

**Year:** Year of observation

**Date:** Date of the first of the month (month/day/year)

**diarrhea**: Total monthly Chobe District diarrhea incidence, summed weekly incidence (cases per 10 reporting facilities)

**diarrhea1:** Monthly diarrhea incidence (diarrhea) lagged 1 month

**diarrhea\_ave**: Mean Chobe District diarrhea incidence in that month across all years (e.g. mean diarrhea incidence in January from 2007-2017)

**diarrhea\_sd**: Standard deviation of Chobe District diarrhea incidence in that month across all years (e.g. standard deviation of diarrhea incidence in January from 2007-2017)

**diarrhea\_anom:** Monthly diarrhea anomaly calculated as the difference between the monthly diarrhea incidence and the mean monthly diarrhea incidence (diarrhea – diarrhea\_ave) divided by the standard deviation of monthly diarrhea incidence (diarrhea\_sd).

**diarrhea\_anom1:** Monthly diarrhea anomaly (diarrhea\_anom) lagged 1 month

**diarrhea\_anom2:** Monthly diarrhea anomaly (diarrhea\_anom) lagged 2 months

**diarrhea\_anom3:** Monthly diarrhea anomaly (diarrhea\_anom) lagged 3 month

**rain\_sum:** Total monthly Chobe District rainfall, summed weekly rainfall (millimeters)

**rain\_ave**: Mean Chobe District rainfall (millimeters) across all monitoring sites in that month across all years (e.g. mean rainfall in January from 2007-2017)

**rain\_sd:** Standard deviation of Chobe District rainfall in that month across all years (e.g. standard deviation of rainfall in January from 2007-2017)

**rain\_anom:** Monthly rainfall anomaly calculated as the difference between the monthly rainfall and the mean monthly rainfall (rain\_sum – rain\_ave) divided by the standard deviation of monthly rainfall (rain\_sd).

**rain\_anom1:** Monthly rainfall anomaly (rain\_anom) lagged 1 month

**rain\_anom2:** Monthly rainfall anomaly (rain\_anom) lagged 2 months

**rain\_anom3:** Monthly rainfall anomaly (rain\_anom) lagged 3 months

**height**: Mean monthly Chobe River height, averaged weekly river height (meters)

**height\_ave**: Mean Chobe River height (meters) in that month across all years (e.g. mean Chobe River height in January from 2007-2017)

**height\_sd:** Standard deviation of Chobe River height in that month across all years (e.g. standard deviation of river height in January from 2007-2017)

**height\_anom:** Monthly Chobe River height anomaly calculated as the difference between the monthly river height and the mean monthly river height (rain\_sum – rain\_ave) divided by the standard deviation of monthly river height (rain\_sd).

**height\_anom1:** Monthly Chobe River height anomaly (height\_anom) lagged 1 month

**height\_anom2:** Monthly Chobe River height anomaly (height\_anom) lagged 2 months

**height\_anom3:** Monthly Chobe River height anomaly (height\_anom) lagged 3 months

**tmin:** Mean monthly minimum temperature, average weekly minimum temperature (Celsius)

**tmin\_ave**: Mean Chobe District minimum temperature (Celsius) across all monitoring sites in that month across all years (e.g. mean minimum temperature in January from 2007-2017)

**tmin\_sd:** Standard deviation of Chobe District minimum temperature in that month across all years (e.g. standard deviation of minimum temperature in January from 2007-2017)

**tmin\_anom:** Monthly Chobe District minimum temperature anomaly calculated as the difference between the monthly minimum temperature and the mean monthly minimum temperature (tmin – tmin\_ave) divided by the standard deviation of monthly minimum temperature (tmin\_sd).

**tmin\_anom1:** Monthly minimum temperature anomaly (tmin\_anom) lagged 1 month

**tmin\_anom2:** Monthly minimum temperature anomaly (tmin\_anom) lagged 2 months

**tmin\_anom3:** Monthly minimum temperature anomaly (tmin\_anom) lagged 3 months

**MEI:** Multivariate ENSO Index

**SOI**: Southern Oscillation Index

**NINO4**: Niño 4 Sea Surface Temperature Anomaly

**NINO3.4:** Niño 3.4 Sea Surface Temperature Anomaly

**NINO3.41:** Niño 3.4 Sea Surface Temperature anomaly lagged 1 month

**NINO3.42:** Niño 3.4 Sea Surface Temperature anomaly lagged 2 month

**NINO3.43:** Niño 3.4 Sea Surface Temperature anomaly lagged 3 month

**NINO3.44:** Niño 3.4 Sea Surface Temperature anomaly lagged 4 month

**NINO3.45:** Niño 3.4 Sea Surface Temperature anomaly lagged 5 month

**NINO3.46:** Niño 3.4 Sea Surface Temperature anomaly lagged 6 month

**NINO3.47:** Niño 3.4 Sea Surface Temperature anomaly lagged 7 month

**NINO3.48:** Niño 3.4 Sea Surface Temperature anomaly lagged 8 month

**NINO3.49:** Niño 3.4 Sea Surface Temperature anomaly lagged 9 month

**NINO3.410:** Niño 3.4 Sea Surface Temperature anomaly lagged 10 month

**NINO3.411:** Niño 3.4 Sea Surface Temperature anomaly lagged 11 month

**NINO3.412:** Niño 3.4 Sea Surface Temperature anomaly lagged 12 month