**Codebook for Water Bodies Data**

**Obs**

The observation number.

**Water\_Body\_Year**

Indicates the year-location pairing.

**Water\_Body**

Name of the location.

**Water\_Body\_ID**

ID number of the location.

**Year**

Indicates the year of the observation.

**Time\_Counter**

Indicates the year since the first year of recorded observation. The counter begins with “1.”

**Agreement**

Indicates whether an agreement was negotiated that year for that location (coded as “1”); otherwise, coded as “0.”

**Agreement\_Total**

Counts the total number of agreements in force or negotiated that year.

**Agreement\_Duration**

Counts the number of years an agreement was in force. Agreements not in force but that were negotiated in a given year extend the counter. The time counter does not restart at each new agreement.

**Time\_Until\_Agreement**

Counts the number of years from the start of the panel until the next agreement. The time counter restarts the year after each successive agreement.

**Agreement\_Names**

Names of the agreements in force or negotiated that year.

**Dates\_Signature**

Dates of signatures of the agreements in force or negotiated that year.

**Years\_Signature**

Years of the signatures of the agreements in force or negotiated that year.

**Comprehensive\_Agreement**

Indicates whether an agreement including all the relevant parties was negotiated that year for that location (coded as “1”); otherwise, coded as “0.”

**Comprehensive\_Agreement\_Total**

Counts the total number of comprehensive agreements in force or negotiated that year.

**Comprehensive\_Agreement\_Duration**

Counts the number of years a comprehensive agreement was in force. Comprehensive agreements not in force but that were negotiated in a given year extend the counter. The time counter does not restart at each new agreement.

**Time\_Until\_Comprehensive\_Agreement**

Counts the number of years from the start of the panel until the next comprehensive agreement. The time counter restarts the year after each successive comprehensive agreement.

**Comprehensive\_Agreement\_Names**

Names of the comprehensive agreements in force or negotiated that year.

**Dates\_Signature**

Dates of signatures of the agreements in force or negotiated that year.

**Years\_Signature**

Years of the signatures of the agreements in force or negotiated that year.

**Relevant\_Parties**

Independent states with territories contiguous with the location.

**Limited\_Agreement**

Indicates whether there was an agreement negotiated that did not include at least one critical party.

**Total\_Limited\_Agreements**

Counts the total number of limited agreements in force or negotiated that year.

**Limited\_Agreement\_Duration**

Counts the number of years a limited agreement was in place. The time counter does not restart at “1” each time a new limited agreement is negotiated.

**Time\_Until\_Limited Agreement**

Counts the number of years from the start of the panel until the next limited agreement. The time counter restarts the year after each successive limited agreement.

**Limited\_Agreement\_Names**

Names of the limited agreements in force or negotiated that year.

**Dates\_Signature**

Dates of signatures of the limited agreements in force or negotiated that year.

**Years\_Signature**

Years of the signatures of the limited agreements in force or negotiated that year.

**Critical\_Parties**

List of critical parties. All littoral states are listed under this variable. Only upstream states are listed under this variable in upstream-downstream rivers. All states are listed under this variable for border-creating rivers.

**Critical\_NonParties**

List of critical non-parties to the agreements.

**Integrated\_Agreement**

Indicates whether an agreement was negotiated that modifies, implements, replaces, or follows, or adds to provisions under an existing agreement or an earlier agreement on the location (coded as “1”); otherwise, coded as “0.” This begins with the beginning of the time series for a location.

**Total\_Integrated\_Agreement**

Counts the total number of integrated agreements in force or negotiated that year. This begins with the beginning of the time series for a location.

**Integrated\_Agreement\_Duration**

Counts the number of years a integrated agreement was either in force. This includes integrated agreements not in force but that were negotiate in a given year. The time counter does not restart at each new integrated agreement. This begins with the beginning of the time series for a location.

**Time\_Until\_Integrated\_Agreement**

Counts the number of years from the start of the panel until the next integrated agreement. The time counter restarts the year after each successive integrated agreement. This begins with the beginning of the time series for a location.

**Independent\_Agreement**

Indicates whether an agreement was negotiated that was independent of the existing agreement on the location or prior agreements on the location (coded as “1”); otherwise, coded as “0.” This begins with the beginning of the time series for a location.

**Total\_Independent\_Agreement**

Counts the total number of separate agreements in force or negotiated that year. This begins with the beginning of the time series for a location.

**Independent\_Agreement\_Duration**

Counts the number of years a separate agreement was either in force. This includes separate agreements not in force but that were negotiate in a given year. The time counter does not restart at each new separate agreement. This begins with the beginning of the time series for a location.

**Time\_Until\_Independent\_Agreement**

Counts the number of years from the start of the panel until the next separate agreement. The time counter restarts the year after each successive separate agreement. This begins with the beginning of the time series for a location.

**Independent\_Agreement\_Names**

Names of the separate agreements in force or negotiated that year.

**Dates\_Signature**

Dates of signatures of the separate agreements in force or negotiated that year.

**Years\_Signature**

Indicates the years of the separate agreements in force or negotiated that year.

**Agreements\_Lagged**

Indicates the total number of agreement in force or negotiated the previous year.

**Comprehensive\_Agreements\_Lagged**

Indicates the total number of comprehensive agreement the previous year.

**Limited\_Agreements\_Lagged**

Indicates the total number of limited agreement in force or negotiated the previous year.

**Integrated\_Agreements\_Lagged**

Indicates the total number of integrated agreements in force or negotiated the previous year.

**Independent\_Agreements\_Lagged**

Indicates the total number of separate agreements in force or negotiated the previous year.

**Directional\_Problem**

Indicates the problem structure: common pool resource or directional.

**Directional\_Problem\_ID**

Indicates the problem structure with “0” for a common pool resource and “1” for a directional problem.

**Open\_Sea**

Indicates whether the location is an open-water sea.

**Inland\_Sea\_Lake**

Indicates whether the location is a lake or an inland sea.

**Rivalry**

Indicates the total number of rivalries among any of the parties that year.

**Dyads\_Rivalry**

Indicates the dyads for the Rivalry variable. Dyad numbers based on the Correlates of War Project.

**Ave\_Demo**

The mean POLITY IV Polity 2 score among all the parties relevant to the location.

**Ave\_Per\_Capita\_GDP**

The mean per capita GDP of all parties relevant to the location based on the Penn World Tables.

**Log\_Ave\_Per\_Capita\_GDP**

Log of the Ave\_Per\_Capita\_GDP variable.

**Allies**

Indicates the number of alliance agreements among any of the parties relevant to the location.

**Dyads\_Allies**

Indicates the dyads for the Allies variable. Dyad numbers based on the Correlates of War Project.

**UNEP\_Auspicies**

Indicates whether there is an agreement in place administered by the United Nations Environment Programme or operating under its auspices.

**South\_America**

Indicates whether the location is in South America.

**Africa**

Indicates whether the location is in Africa.

**Europe**

Indicates whether the location is in Europe.

**Asia**

Indicates whether the location is in Asia.

**No\_Parties**

Indicates the number of parties relevant to the location (i.e., bordering the location of interest).

**Notes**

Explains some coding decisions.