**Network Science for Nonproliferation – TreatyData Codebook**

**CountryTreaties**

*Country*

*Year*

*NPT:* 0 = not signed onto the NPT

1 = has signed but not ratified the NPT

2 = has ratified the NPT

*NWFZ:* 0 = is not a member of a nuclear weapons free zone (NWFZ)

1 = has signed but not deposited their ratification for the nuclear weapons free zone

2 = has signed and ratified the nuclear weapons free zone

Data Sources:

United Nations Office for Disarmament Affairs, Disarmament Treaties Database: <http://disarmament.un.org/treaties/>

<http://www.nti.org/learn/treaties-and-regimes/nuclear-weapon-free-status-mongolia/> <http://disarmament.un.org/treaties/>

# <http://dspace.africaportal.org/jspui/bitstream/123456789/31716/1/PelindabaTreaty2011.pdf?1>

Notes:

# Morocco signed the Pelindaba Treaty in 1996, but did not ratify, and is not on the official list in the UN as they were not part of the African Union when they signed; however, Morocco is included as a signatory and an eligible state. Incidentally, Morocco is back in the AU.

* This set of data should not be included in the final analysis as states that are not officially recognized as independent nations are included in certain years with no differentiation between states that do not exist and states that are not signed onto treaties.
  + This data is in the spreadsheet as it is inherited from the main NetSci project.

**CountryTreatiesClean**

*Country*

*Year*

*NPT:* 0 = not signed onto the NPT

1 = has signed but not ratified the NPT

2 = has ratified the NPT

*NWFZ:* 0 = is not a member of a nuclear weapons free zone

1 = has signed but not deposited their ratification for the nuclear weapons free zone

2 = has signed and ratified the nuclear weapons free zone

Data Sources:

United Nations Office for Disarmament Affairs, Disarmament Treaties Database: <http://disarmament.un.org/treaties/>

NTI Mongolia Nuclear Weapon Free Zone:

<http://www.nti.org/learn/treaties-and-regimes/nuclear-weapon-free-status-mongolia/>

Pelindaba Treaty Information:

# <http://dspace.africaportal.org/jspui/bitstream/123456789/31716/1/PelindabaTreaty2011.pdf?1>

CIA World Factbook for statehood dates

<https://www.cia.gov/library/publications/the-world-factbook/>

Notes:

# Morocco signed the Pelindaba Treaty in 1996, but did not ratify, and is not on the official list in the UN as they were not part of the African Union when they signed; however, Morocco is included as a signatory and an eligible state. Incidentally, Morocco is back in the AU.

* This set of data is the set to be analyzed as non-recognized states are removed from the data.

# CountryNormalization

*Country*

*Year*

*Possible Treaty Score:* 0 = no available treaties (NPT or NWFZ)

2 = has the potential to sign and ratify the NPT

4 = has the potential to sign and ratify the NPT and a NWFZ

Data Source:

United Nations Office for Disarmament Affairs, Disarmament Treaties Database: <http://disarmament.un.org/treaties/>

# TreatyNormalization

*Treaty:* name of NWFZ

*Year*

*Possible # of Members*: the number of states that could be members of a given NWFZ in that year (from the data that is used)

Data Source:

United Nations Office for Disarmament Affairs, Disarmament Treaties Database: <http://disarmament.un.org/treaties/>

Notes:

* For normalization of the NPT, simply use the total number of states (using data from CountryTreatiesClean) included in the analysis in 1968 and beyond as all are eligible to sign/ratify that are fully recognized states in 1968 and beyond.

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**ProliferationLevel**

*Country*

*Year*

*Level:* proliferation level from Singh and Way

0 = no steps towards a nuclear weapons program

1 = exploration of nuclear weapons

2 = pursuit of nuclear weapons

3 = acquisition of nuclear weapons

Data Sources:

Modified from: Singh, Sonali, and Christopher R. Way. "The correlates of nuclear proliferation: A quantitative test." *Journal of Conflict Resolution* 48.6 (2004): 859-885.

Modifications are as follows:

* Liechtenstein (223) – added 0s in 1945-1949 (to complete country history)
* Switzerland (225) – changed 0 to 1 in 1970
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Romania (360) – changed 1s to 0s in 1991-1993
  + As per update from Christopher Way - <http://falcon.arts.cornell.edu/crw12>
* Sweden (380) – changed 0s to 1s in 1946-1953
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* South Africa (560) – changed 3s to 0s in 1992-1993
  + As per update from Christopher Way - <http://falcon.arts.cornell.edu/crw12>
* Iran (630) – changed 0s to 1s in 1976-1983
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Iraq (645) – changed 2 to 1 in 1982 and 2s to 0s in 1996-2000
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Egypt (651) – changed 0s to 1s in 1960-1964 and 0s to 2s in 1965-1974
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Syria (652) – changed 0 to 2 in 2000
  + As per update from Christopher Way - <http://falcon.arts.cornell.edu/crw12>
* Israel (666) – changed 2s to 3s in 1969-1971
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Yemen (679) – added 0s in 1990-2000 (to complete country history)
* Taiwan (713) – removed as Taiwan cannot sign on to UN treaties
* North Korea (731) – changed 3 to 2 in 2000
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* India (750) – changed 3 to 2 in 1974 and 1s to 2s in 1975-1979
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Pakistan (770) – changed 2s to 3s in 1987-1989
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Maldives (781) – added 0s in 1998-2000 (to complete country history)
* Indonesia (850) – changed 0s to 1s in 1965-1967
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Australia (900) – changed 1s to 2s in 1961-1973
  + As per update from Christopher Way - http://falcon.arts.cornell.edu/crw12/
* Vanuatu (935) – added 0s in 1998-2000 (to complete country history)
* Kiribati (946) – added 0s in 1975-2000 (to complete country history)
* Tuvalu (947) – added 0s in 1978-2000 (to complete country history)
* Tonga (955) – added 0s in 1970-2000 (to complete country history)
* Nauru (970) – added 0s in 1968-2000 (to complete country history)
* Marshall Islands (983) – added 0s in 1990, 1998-2000 (to complete country history)
* Samoa (990) – added 0s in 1970-1975 (to complete country history)

# Key

*Country:* the country codes used in the preceding sheets.

*Name:* the name of the country represented by the country codes.