Global climate governance dataset

Version 1
Published January 2021
Author: Sam Rowan
Contact: sam.rowan@concordia.ca

This data may be cited as:
Sam S. Rowan (2021). "Does institutional proliferation undermine cooperation? Theory and evidence from climate change". *International Studies Quarterly*, doi: 10.1093/isq/sqaa092

This codebook contains:

1. A full list of the climate institutions included
2. A description of the variables in the panel data
3. A description of the variables in the ideal points data
4. A description of the variables in the climate policy (NDC) data

1. Full list of institutions

File: gcg_list_v1.csv

Abb.	Full name	Created	Terminated	Finance?
aij	Activities Implemented Jointly	1995	2005	1
asap	Adaptation for Smallholder Agriculture Program	2012	.	1
aosis	Alliance of Small Island States	1990	.	0
afp	Asia Forest Partnership	2002	2013	0
app	Asia-Pacific Partnership on Clean Development and Climate	2005	2011	0
bcf	BioCarbon Fund	2004	.	1
bonn	Bonn Challenge	2011	.	0
cpf	Carbon Partnership Facility	2009	.	0
cplc	Carbon Pricing Leadership Coalition	2015	.	0
cslf	Carbon Sequestration Leadership Forum	2003	.	0
cartagena	Cartagena Dialogue	2010	.	0
cdm	Clean Development Mechanism	2001	.	1
cem	Clean Energy Ministerial	2009	.	0
ccac	Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants	2012	.	0
cif	Climate Investment Funds (Clean Technology Fund + Strategic Climate Fund)	2008	.	1
cti	Climate Technology Initiative	1995	.	0
cvf	Climate Vulnerable Forum	2009	.	0
cbfp	Congo Basin Forest Partnership	2002	.	0
doha	Doha Amendment to the Kyoto Protocol	2013	.	0
eeeuei	Efficient Electrical End Use Equipment Initiative	2008	.	0
fscrf	Food Security Climate Resilience Facility	2015	.	0

fcpf	Forest Carbon Partnership Facility	2008	.		1
gef	GEF Climate Window	1992	.		1
gaccs	Global Alliance for Clean Cook Stoves	2010	.	.	
gacsa	Global Alliance For Climate-Smart Agriculture	2014	.		0
gbp	Global Bioenergy Partnership	2007	.		0
gcca	Global Climate Change Alliance	2008	.		1
gfdrr	Global Facility for Disaster Reduction and Recovery	2006	.		0
ggfrp	Global Gas Flaring Reduction Partnership	2002	.		0
gga	Global Geothermal Alliance	2014	.		0
gmi	Global Methane Initiative	2004	.		0
graagg	Global Research Alliance on Agricultural Greenhouse Gases	2009	.		0
grp	Global Resilience Partnership	2014	.		0
gcf	Green Climate Fund	2010	.	.	
icap	International Carbon Action Partnership	2007	.		0
ieci	International Energy and Climate Initiative - Energy+	2010	.		1
ipeec	International Partnership for Energy Efficiency Cooperation	2009	.		0
iphe	International Partnership for the Hydrogen Economy	2003	.		0
ipmmrv	International Partnership on Mitigation and Measuring, Reporting and Verification (now, Partnership for Transparency in the Paris Agreement)	2010	.		0
irena	International Renewable Energy Agency	2009	.		0
izeva	International Zero-Emission Vehicle Alliance	2015	.		0
jrec	Johannesburg Renewable Energies Coalition	2002	.		0
ji	Joint Implementation	2002	.		1
kyoto	Kyoto Protocol	1997	.		0
ldcf	Least Developed Countries Fund	2002	.		1
ledsgp	Low Emission Development Strategies Global Partnership	2011	.		0
mef	Major Economies Forum (formerly, Major Economies Meeting)	2007	.		0
misinn	Mission Innovation	2015	.		0
micca	Mitigation of Climate Change in Agriculture Programme	2010	.		0
pmr	Partnership for Market Readiness	2011	.		0
petersberg	Petersberg Climate Dialogue	2010	.		0
pcf	Prototype Carbon Fund	2000	.		1
reddplus	REDD+ Partnership	2010		2014	0
ren21	REN21	2005	.		0
reeep	Renewable Energy and Energy Efficiency Partnership	2002	.		0
sidslight	SIDS Lighthouses Initiative	2015	.		0
sffs	Soils for Food Security and Climate	2015	.		0
sccf	Special Climate Change Fund	2002	.		1
tfa2020	Tropical Forest Alliance 2020	2012	.		0
unredd	UN-REDD Programme Fund	2009	.		1

gip	UNIDO-UNEP Green Industry Platform	2009	.	0
unfccc	United Nations Framework Convention on Climate Change	1992	.	0
zrf	Zero Routine Flaring by 2030 Initiative	2015	.	0

Abb.: an abbreviation for the institution
Full name: institution's full name
Created: year an institution was created
Terminated: year an institution was terminated
Finance?: an indicator of whether membership in that institution is coded separately for donors and recipients (buyers and sellers of offsets, hosts of projects and buyers of those offsets; denoted with *_d and *_r in the dataset)

Data is collected from publicly available documents on these institutions' websites.

Data is current for December 2015.

More information on coding rules is available in the online supplementary information of: Sam S. Rowan (2021). "Does institutional proliferation undermine cooperation? Theory and evidence from climate change". *International Studies Quarterly*, doi: 10.1093/isq/sqaa092

2. Panel dataset

File: gcg_panel_v1.csv

The panel dataset contains yearly observations of membership.

iso3c: ISO 3-digit codes for 195 countries including the EU
year: Annual observations from 1988 to 2015. The "year" column is a "character vector" because it contains a "cross-section" entry after 2015 that summarizes membership to include institutions that were terminated by 2015.
sum_climate_institutions: Sum of climate institutional memberships in that year
eligible_climate_institutions: Sum of eligible climate institutions for membership, accounting for different climate finance expectations for Annex 2 and non-Annex 2 countries under the 1992 UN Framework Convention on Climate Change
share_climate_institutions: Percentage share of climate institutional membership in that year (sum divided by eligible)
afp:zrf: 63 institutions, some of which have membership coded separately for donors and recipients (see table above)

3. Ideal point measures of states' climate policy preferences

File: gcg_idealpoints_v1.csv

This cross-sectional dataset contains measures of 190 states' climate policy preferences, conceptualized as ideal points estimated from membership in the 63 climate institutions.

iso3c: ISO 3-digit codes for 190 countries including the EU --- countries with fewer than 3 institutional membership are not included in the estimation
sum_climate_institutions: Sum of climate institutional memberships in that year
share_climate_institutions: Percentage share of climate institutional membership in that year (sum divided by eligible)
d1_mean: Joiners score, IRT first dimension score, positive values join more institutions
d2_mean: Deepeners—fragmenters score, IRT second dimension score, deepeners have positive values, fragmenters have negative values

4. Climate policy, NDC, data

File: ndc_summaries.csv

This data frame contains summary information on countries' 2015 Intended Nationally Determined Contributions under the Paris Agreement on Climate Change. The underlying data is from:

- Robiou du Pont, Yann et al. (2017). "Equitable mitigation to achieve the Paris Agreement goals". *Nature Climate Change* 7 (1). doi: 10.1038/nclimate3186
- World Resources Institute. (Mar. 2015). *Countries' Pre-2020 Climate Pledges Submitted to the UNFCCC*. url: http://cait.wri.org/pledges/
- World Resources Institute. (2016). *Paris Contributions Map (INDCs)*. url: http://cait.wri.org/indc/
- Gütschow, Johannes; Jeffery, Louise; Gieseke, Robert (2019): The PRIMAP-hist national historical emissions time series (1850-2016). V. 2.0. GFZ Data Services. https://doi.org/10.5880/PIK.2019.001

iso3c: ISO 3-digit country code
ghg_2010: GHG emissions in 2010 (from Gütschow et al.)
cap_quota2030: GHG emissions quota for 2030 under CAP standard (from Robiou du Pont et al.)
cer_quota2030: GHG emissions quota for 2030 under CER standard (from Robiou du Pont et al.)
cpc_quota2030: GHG emissions quota for 2030 under CPC standard (from Robiou du Pont et al.)
epc_quota2030: GHG emissions quota for 2030 under EPC standard (from Robiou du Pont et al.)
gdr_quota2030: GHG emissions quota for 2030 under GDR standard (from Robiou du Pont et al.)
quota_median: Median GHG emissions quota for 2030 (from Robiou du Pont et al.)
flag_target: Categorical variable describing the observability of a country's NDC target
ambitionseen: Binary variable of observability (adapted from World Resources Institute)
ambitionseen2: Binary variable of observability with stricter conditions, excluding indexed GHG targets from analysis (adapted from World Resources Institute)
ambitionseen3: Binary variable of observability with strictest conditions, excluding indexed GHG targets, non-GHG targets and actions only targets from analysis (adapted from World Resources Institute)

copenhagen_ghgtarget: Binary variable of whether a country adopted a GHG target following COP15 in Copenhagen under the Copenhagen Accord/Cancun Agreements (adapted from World Resources Institute)
indc_emissions_2030: GHG emissions under NDC (from Robiou du Pont et al.)
indc_perc: GHG emissions under NDC, as a percentage of 2010 GHG emissions
indcshare_cap: GHG emissions under NDC as a percentage of CAP quota
indcshare_cer: GHG emissions under NDC as a percentage of CER quota
indcshare_cpc: GHG emissions under NDC as a percentage of CPC quota
indcshare_epc: GHG emissions under NDC as a percentage of EPC quota
indcshare_gdr: GHG emissions under NDC as a percentage of GDR quota
indcshare_median: GHG emissions under NDC as a percentage of median quota
indcshare_mean: GHG emissions under NDC as a percentage of mean quota