

Supplementary Materials: The CliMig bibliographic database

Compiled at the Institute of Geography of the University of Neuchâtel (Switzerland), the CliMig bibliographic database is the first comprehensive collection of resources which specifically concentrates on migration, the environment, and climate change. The project consists of a fully searchable version of the bibliography on the WEB that is continuously updated with new publications. It aims to provide a free major hub for researchers on this important topic worldwide. It could subsequently be completed with direct access to non-copyrighted PDF documents, statistical data and metadata, ongoing research projects, etc. CliMig uses the most advanced bibliographic research technologies to identify new publications, but the selection of materials, entries, and keyword attribution are done manually, ensuring scientific accuracy and coherence. CliMig is the culmination of professional data-gathering in five stages:

1. Literature monitoring

The literature watch uses traditional sources (publishers' catalogues, e-alerts, group lists and discussions, newsletters, etc.) to monitor scientific literature. Tools such as Google Scholar alerts, Feedinformer, the Old Reader, Update Scanner, Queryfeed and editors' alerts are added to the monitoring system in order to filter and locate grey literature (reports, working-papers, conference proceedings, etc.). The database welcomes published material submitted directly by authors or colleagues.

2. Selection of topics

To ensure coherence and comprehensiveness, references are included only if they focused on—or bring significant insights into—the following topics:

- Population displacement potentially caused by environmental change
- Displacement as a coping strategy due to environmental change
- Perception/representation of the migration/environment nexus
- Policies and legal issues related to migration and environmental change

In principle, the database does not include references focused on mobility in the context of post-disaster relief (e.g. cell phone data to monitor displacement), the impact of migration on the environment, the links between conflicts and environment, displacement linked to development/infrastructure projects, amenity migration (environment as a pull factor), vulnerability in general, and environmental change if unrelated to displacement of people.

3. Selection of relevant types of literature to be included

The CliMig database is focused on original research material. The selection of grey literature is based on IPCC procedure¹. The following types of publications are included:

- Articles in scientific (peer-reviewed) journals (journal article)
- Books published by scientific publishers (book)
- Chapters of edited books published by scientific publishers (book chapter)
- Reports from scientific (peer-reviewed) research projects (report)
- Working papers based on scientific (peer-reviewed) research projects (report)

¹ https://www.ipcc.ch/site/assets/uploads/2018/02/FS_ipcc_assess.pdf

- Synthesis or research reports by NGOs – Administrations, UN bodies, etc. if they are based on original empirical work or represent a synthesis not available elsewhere (report)
- Special issues of ‘large public’ reviews, journals, or encyclopedias can be included in the database if they bring additional insights.

The database does not include magazine and newspaper articles, leaflets, advocacy documents, websites, blogs, entries in encyclopedias/dictionaries, or syntheses that do not bring original information.

4. Implementation of specific keywords

CliMig keywords are assigned on the basis of a uniform procedure for all publications, and manually entered to ensure scientific accuracy and clarity. For further details and usage, see: https://www.unine.ch/geographie/Migration_and_Climate_Change.

5. Daily maintenance of CliMig

We work in collaboration with the Swiss Forum for Migration and Population (SFM), which uses the information-management platform Delicious to upload potential articles for CliMig. After articles of primary relevance to CliMig are selected, all references and keywords are entered into Endnote Desktop for researchers using Endnote Online. It takes roughly half a day per week to keep CliMig updated and maintained.

With a total of 1193 papers at the end of 2016, this bibliographical database is a unique resource providing a transparent overview of the field of migration and environment research. It allows for comparisons of various sets of meta-analysis on topics of migration and environment studies, both globally and over time. Four families of keywords are used: “Area”, “Type - Method”, “Focus”, and “Environmental hazard”. The origin (country) of the author and the funding are also recorded.

Area	Type – Method	Focus	Environmental hazard
World Studies covering the whole world or without geographic specification.	Overview Synthesis of existing literature or studies dealing with conceptual issues (no empirical case study) – Also includes empirical work on the representation of CC (i.e. in the media).	Gender Studies dealing with gender issues	SLR Sea level rise
Asia	type1 Ecological models based on area characteristics (spatial analysis) ²	Perception Representation and perception of actors	Hurricane
Europe	type2 Multilevel analysis based on area and individual characteristics	Migadapt Migration as an adaptation response	Flood
Africa	type3 Analysis of individual data based on large sample surveys (>100)	DRR / EWS Disaster Risk Reduction / Early Warning Systems	Drought
North America USA + Canada	type4 Historical analogues	Trapped Studies dealing with immobility	Rainfall
Latin America South America + Central America + Caribbean	type5 Indexes of vulnerability, hotspot identification, scenarios, regional case studies, etc.	Statelessness	Other Wildfire, landslides, etc. Also if no specific type is studied.

² Including economic models (general equilibrium, e.g.).

Oceania Australia, New-Zealand + Pacific Islands	type6 Qualitative field case studies using ethnographic methods and small samples questionnaires	Law Studies dealing with juridical aspects and policies	
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Supplementary Materials: References

For this explorative study, we focused our analysis on the articles that can be identified as case-studies³ with a focus on slow-onset environmental degradations (hurricanes and floods have been excluded). A set of 321 articles therefore constitutes the bibliographic base for this study.

³ A case study is here defined as an empirical research that makes use of of first hand data for which the methodology of analysis can be identified (excluding for example synthesis, state of the art, policy briefs, or strictly descriptive collections of data, etc...) (based on Piguet 2010).

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