Supplementary Material 1

Supplementary material 1 for the article “Between Tinkering and Transformation: A Contemporary Appraisal of Climate-Change Adaptation Research on the World's Islands”, by Petzold et al., in Frontiers in Climate.

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This document contains the following Supplementary Material:

1 PICOS framework

We use the following operationalization of the adapted PICoS framework guiding the eligibility criteria in this review:

- Population: Island populations
- Interest: Human adaptation responses to climate change
- Comparator: Not applicable in this island-focused review
- Study type: Empirical research

2 Search and screening strategy

The database used for the screening of articles comes from the Global Adaptation Mapping Initiative (Berrang-Ford et al. 2021). The GAMI search string builds on combining the concepts climate change and adaptation/response and uses several synonyms., e.g., for Web Of Science: TS= (climat* OR “global warming”) AND TS= (adapt* OR resilien* OR (risk NEAR/3 manag*) OR (risk NEAR/3 reduc*)). The search was done for titles, abstracts, and keywords (see Fischer et al., 2021 for further details).

Inclusion for this island specific review was done through additional title and abstract screening, and in case of doubt, an additional full text screening.

3 Overview of variables from the Global Adaptation Mapping Initiative (GAMI)

Table SM1.1 lists the variables and labels from the Global Adaptation Mapping Initiative (GAMI) that were used for the review of the island case studies in this manuscript (see Lesnikowski et al. (2021) for further details).

Table SM1.1: List of variables and labels from the Global Adaptation Mapping Initiative (GAMI)

GAMI variable	Label
Hazard	Sea level rise
	Extreme precipitation and inland flooding
	Increased frequency and intensity of extreme heat
	Precipitation variability
	Drought
	Rising ocean temperature and ocean acidification
	Loss of Arctic sea ice
	General climate impacts
	Other
Type of response	Behavioural/cultural
	Ecosystem-based
	Institutional
	Technological/infrastructure
Actors	International or multinational governance institutions
	Government (national)
	Government (sub-national)
	Government (local)
	Private sector (corporations)
	Private sector (SME)
	Civil society (international/multinational/national)
	Civil society (sub-national or local)
	Individuals or households
Indigenous and local knowledge	Yes/no
Adaptation limits	Low
	Medium
	High
	Uncertain or not assessed
Depth	Low
	Medium
	High
	Uncertain or not assessed

4 Results of chi-squared analysis

The further statistical analysis of relationships between island's political status and the other variables of interest are provided in Table SM1.2 and Figures SM1.1-5).

Table SM1.2. Pearson's chi-squared tests for island political status with the variables hazard, island type, actors, depth, and response type

Variable	x-squared	Df	p-value
Hazards	95.202	27	1.558e-09
Island type	153.97	12	< 2.2e-16
Actors	84.366	27	8.097e-08
Depth	22.759	9	0.006761

Response type	6.7215	9	0.6661

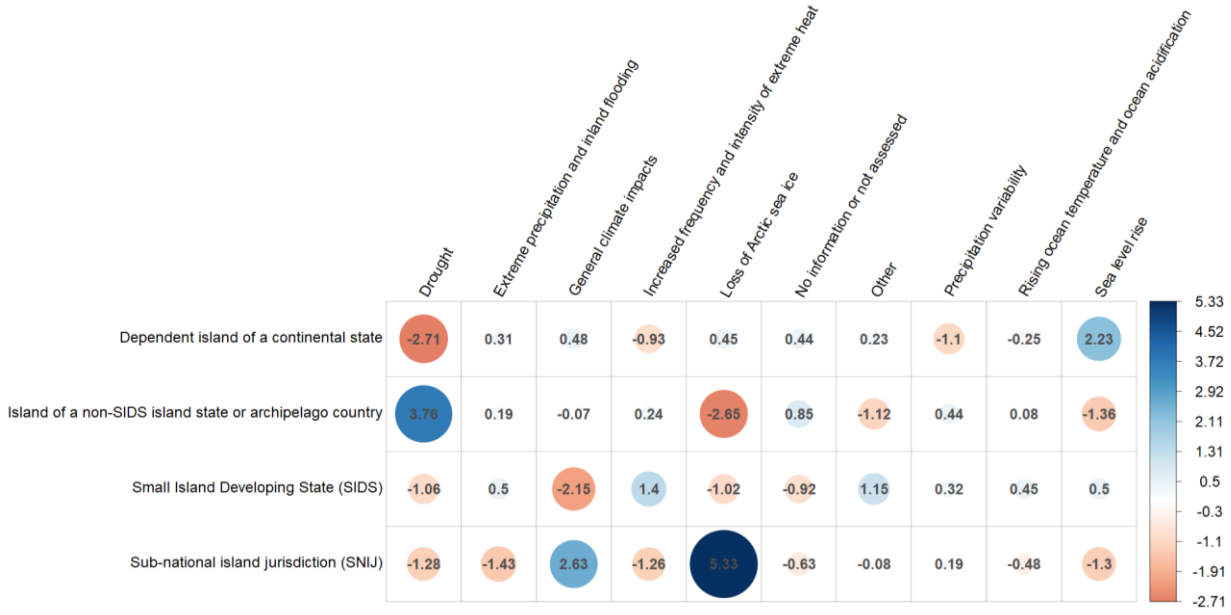

Figure SM1.1: Political status of islands related to climate hazards. Results of the chi-square test calculating the residuals, that is, the difference between the observed and the expected frequency of each combination of political status and hazard, are shown. Residuals below -2 and above 2 can be considered significant. Positive residuals (blue) indicate a higher observed frequency of an actor-role combination, and negative residuals (red) indicate a lower than expected frequency. The size of the circles corresponds to the value of the residuals. X-squared = 95.202, df = 27, p-value = 1.558e-09.

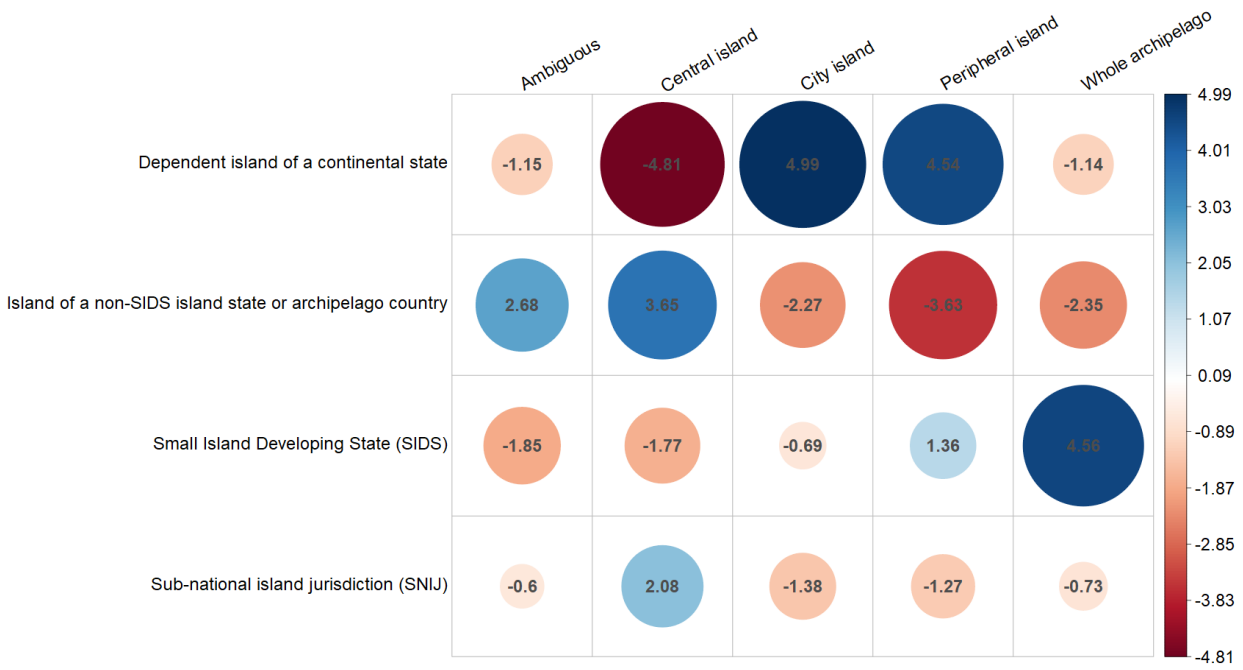

Figure SM1.2: Political status of islands related to island types. Results of the chi-square test calculating the residuals, that is, the difference between the observed and the expected frequency of each combination of political status and island type, are shown. Residuals below -2 and above 2 can be considered significant. Positive residuals (blue) indicate a higher observed frequency of an actor-role combination, and negative residuals (red) indicate a lower than expected frequency. The size of the circles corresponds to the value of the residuals. X-squared = 153.97, df = 12, p-value < 2.2e-16

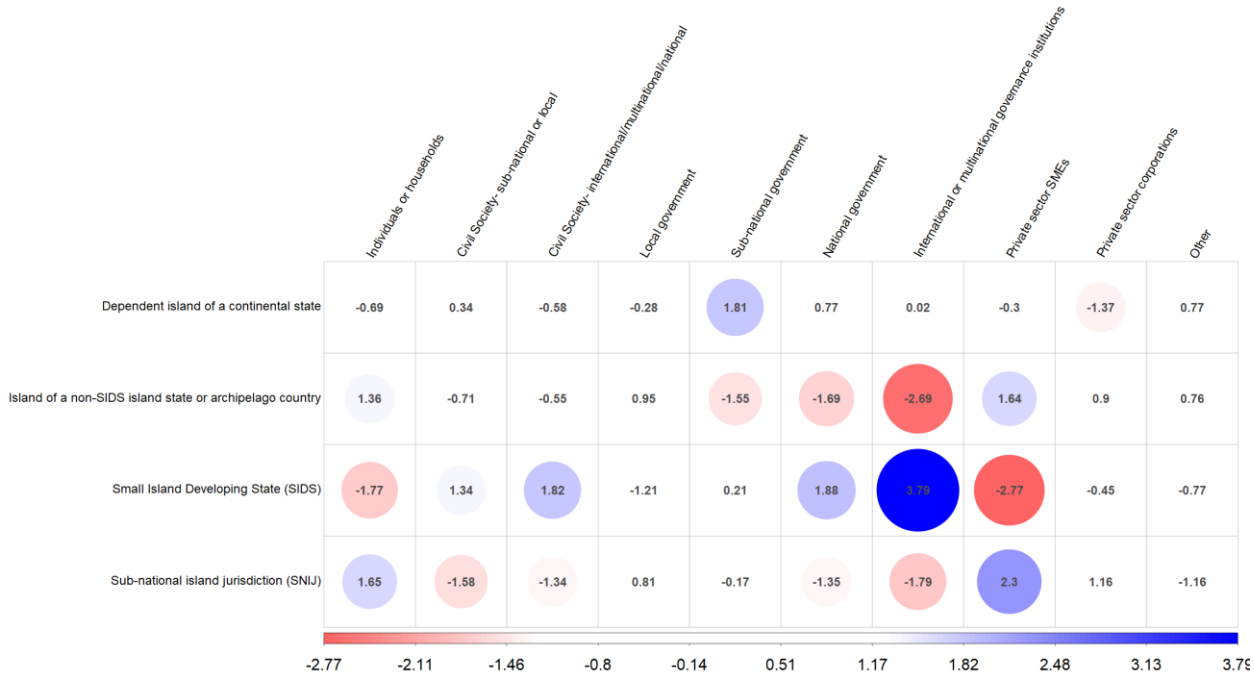

Figure SM1.3: Political status of islands related to actors. Results of the chi-square test calculating the residuals, that is, the difference between the observed and the expected frequency of each combination of political status and actor type, are shown. Residuals below -2 and above 2 can be considered significant. Positive residuals (blue) indicate a higher observed frequency of an actor-role combination, and negative residuals (red) indicate a lower than expected frequency. The size of the circles corresponds to the value of the residuals. X-squared = 84.366, df = 27, p-value = 8.097e-08

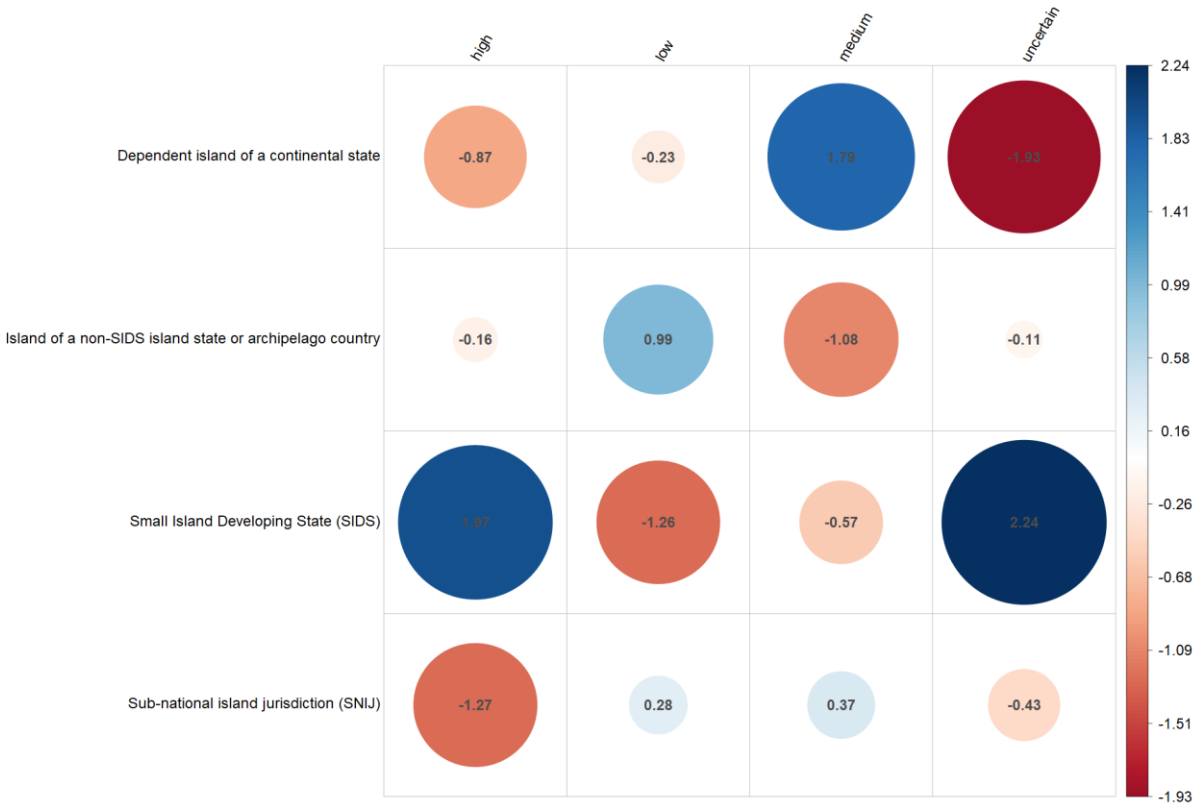

Figure SM1.4: Political status of islands related to level of depth. Results of the chi-square test calculating the residuals, that is, the difference between the observed and the expected frequency of each combination of political status and level of depth, are shown. Residuals below -2 and above 2 can be considered significant. Positive residuals (blue) indicate a higher observed frequency of an actor-role combination, and negative residuals (red) indicate a lower than expected frequency. The size of the circles corresponds to the value of the residuals. X-squared = 6.7215, df = 9, p-value =

0.6661

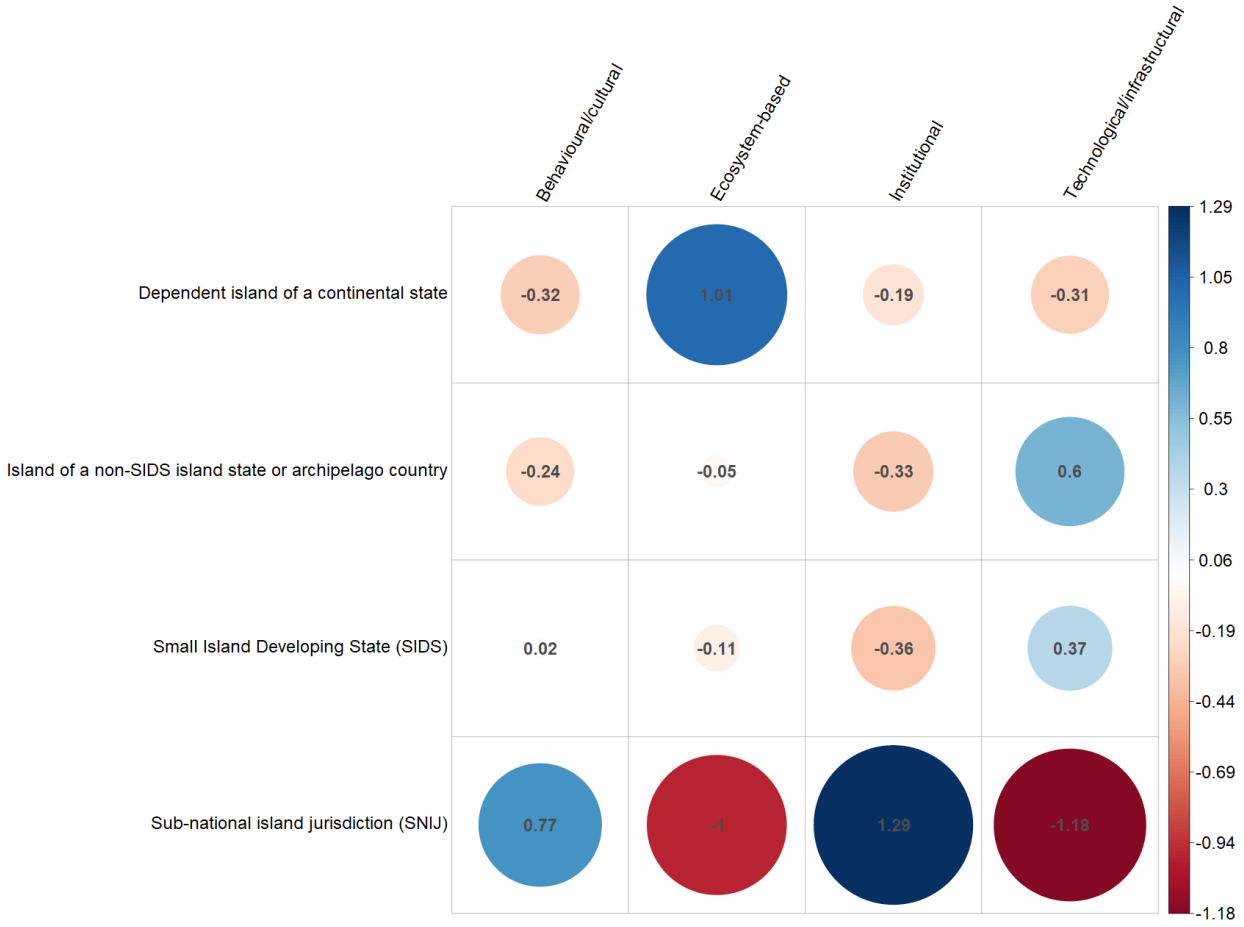

Figure SM1.5: Political status of islands related to response types. Results of the chi-square test calculating the residuals, that is, the difference between the observed and the expected frequency of each combination of political status and response type, are shown. Residuals below -2 and above 2 can be considered significant. Positive residuals (blue) indicate a higher observed frequency of an actor-role combination, and negative residuals (red) indicate a lower than expected frequency. The size of the circles corresponds to the value of the residuals. The test was not significant. X-squared = 610.77, df = 70, p-value < 0.001.

5 List of included articles

The following articles from the GAMI database met the inclusion for this review (see Supplementary Material 1 for the full review database):

Abidoye, B. O., Kurukulasuriya, P., & Mendelsohn, R. (2017). South-east Asian farmer perceptions of climate change. In Climate Change Economics (Vol. 08, Issue 03, p. 1740006). World Scientific Pub Co Pte Lt. https://doi.org/10.1142/s2010007817400061

Ahmed, I., Ayeb-Karlsson, S., van der Geest, K., Huq, S., & Jordan, J. C. (2019). Climate change, environmental stress and loss of livelihoods can push people towards illegal activities: a case study from coastal Bangladesh. In Climate and Development (Vol. 11, Issue 10, pp. 907–917). Informa UK Limited. https://doi.org/10.1080/17565529.2019.1586638

Ahsan, Md. N. (2017). Can Strategies to Cope with Hazard Shocks be Explained by At-Risk Households' Socioeconomic Asset Profile? Evidence from Tropical Cyclone-Prone Coastal Bangladesh. In International Journal of Disaster Risk Science (Vol. 8, Issue 1, pp. 46–63). Springer Science and Business Media LLC. https://doi.org/10.1007/s13753-017-0119-8

Albert, S., Bronen, R., Tooler, N., Leon, J., Yee, D., Ash, J., Boseto, D., & Grinham, A. (2017). Heading for the hills: climate-driven community relocations in the Solomon Islands and Alaska provide insight for a 1.5 °C future. In Regional Environmental Change (Vol. 18, Issue 8, pp. 2261–2272). Springer Science and Business Media LLC. https://doi.org/10.1007/s10113-017-1256-8

Allgood, L., & McNamara, K. E. (2017). Climate-induced migration: Exploring local perspectives in Kiribati. In Singapore Journal of Tropical Geography (Vol. 38, Issue 3, pp. 370–385). Wiley. https://doi.org/10.1111/sjtg.12202

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Alonso, A. D., & Liu, Y. (2013). Climate Change in the Wine Sector of an Ultra-Peripheral European Region: A Case Study. In Agroecology and Sustainable Food Systems (Vol. 37, Issue 3, pp. 291–315). Informa UK Limited. https://doi.org/10.1080/10440046.2012.712089

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Amin, C., Sukamdi, & Rijanta. (2019). Modeling (Im) mobility: the decision to stay in disaster prone area amongs fishermen community in Semarang. In A. Cardenas Tristan, J. Tetuko Sri Sumantyo, E. Haryono, R. Fitria Putri, D. Rahmawati Hizbaro, & E. Wulanmei (Eds.), E3S Web of Conferences (Vol. 76, p. 03012). EDP Sciences. https://doi.org/10.1051/e3sconf/20197603012

Archer, L., Ford, J. D., Pearce, T., Kowal, S., Gough, W. A., & Allurut, M. (2016). Longitudinal assessment of climate vulnerability: a case study from the Canadian Arctic. In Sustainability Science (Vol. 12, Issue 1, pp. 15–29). Springer Science and Business Media LLC. https://doi.org/10.1007/s11625-016-0401-5

Arie, S., Ayu, W., Dinesta, A., Tresta, C., Abdu, A., Rachmat, B., Agus, S., Joni, H. (2018). Assessing Factors that affect Selection of Adaptation Strategies for Small-Scale Fishing Communities. Disaster Advances, 11(8), 11–21.

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