



Global Adaptation Dataset

The Global Adaptation Dataset captures **progress on adaptation** reported in the National Communications.

Indicators:

- Type of action
- Vulnerability
- Sector
- Stage of implementation
- Stakeholders
- Implementation approach
- Vulnerable groups



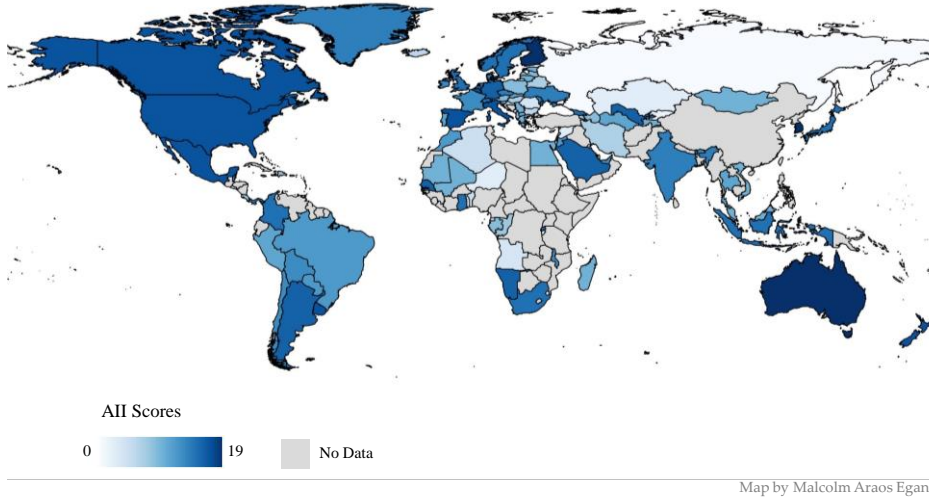
Mitig Adapt Strateg Glob Change (2015) 20:277–293
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ORIGINAL ARTICLE

How are we adapting to climate change? A global assessment

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Adaptation Initiative Index



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What drives national adaptation?

Table 2 Predictors of adaptation capacity, all countries

Generalized linear model outcome: adaptation initiatives index (AII) Coefficient (Std. Error)	Model 1 (Exposure)	Model 2 (Exposure + Economic resources)	Model 3 (Exposure + Econ res + Technology)	Model 4 (Exposure + Econ res + Technology + Info & skills)	Model 5 (Exposure + Econ res + Technology + Info & skills + Institutions)	Model 6 (Best fit)
Number of observations	111	111	111	84	79	98
Log likelihood (GLM)	-313.70	-309.16	-307.75	235.20	-213.19	-262.10
AIC (GLM)	5.71	5.66	5.65	5.79	5.67	5.45
Adjusted R ² (OLS)	0.11	0.16	0.17	0.15	0.28	0.31
Exposure						
Global climate risk index	-0.02 (0.01)*	-0.01 (0.01)	-0.01 (0.01)	0.001 (0.02)	<0.01 (0.02)	-
Coastal exposure (% population, within 100 km of the coast)	0.03 (0.01)**	0.03 (0.01)**	0.03 (0.01)**	0.02 (0.01)	-0.001 (0.02)	-
Economic resources						
Total population (log)	-	-0.06 (0.35)	0.68 (0.57)	0.93 (0.85)	0.65 (0.86)	0.67 (0.30)*
GDP (log)	-	0.60 (0.27)*	-0.15 (0.53)	-0.18 (0.77)	0.12 (0.71)	-
Technology						
Internet users (per 100 people)	-	-	0.05 (0.03) ^M	0.04 (0.04)	-0.02 (0.05)	-
Information & skills						
Public perception of climate change risks	-	-	-	0.02 (0.03)	0.03 (0.03)	-
Literacy rate (binary) [†]	-	-	-	0.02 (0.04)	-0.57 (1.44)	-
Institutions						
Environmental sustainability index (Treaty component)	-	-	-	-	1.75 (3.98)	1.91 (3.00)
Good governance (Corruption perceptions index)	-	-	-	-	1.39 (0.50)**	1.19 (0.25)**
Environmental performance index (EPI)	-	-	-	-	-0.08 (0.06)	-0.07 (0.04)*
Constant	11.64 (1.14)**	-3.48 (5.35)	1.86 (6.22)	-5.20 (8.94)	-5.92 (9.15)	-1.72 (4.91)

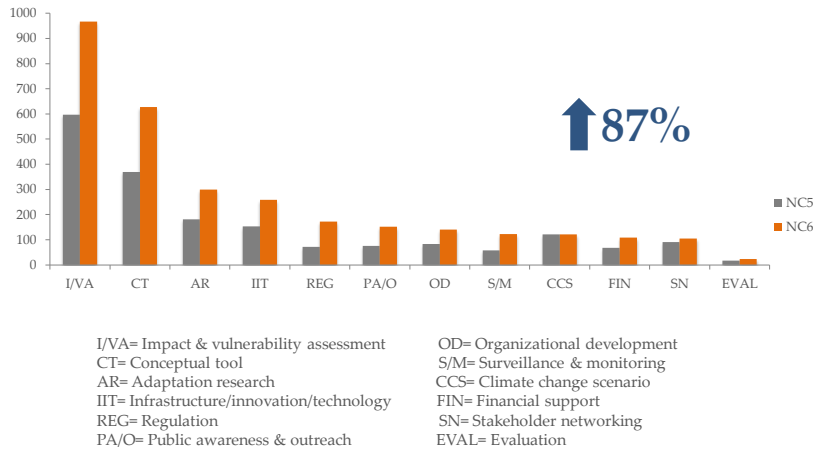
[†] Binary: 0=<90 %, 1= \geq 90 %. Transformed to account for strong negative skewness

* $p<0.0$, ** $p<0.01$

Source: Berrang-Ford, L., Ford, J. D., Lesnikowski, A., Poutiainen, C., Barrera, M., & Heymann, S. J. (2014). What drives national adaptation? A global assessment. *Climatic Change*, 124(1-2), 441-450.

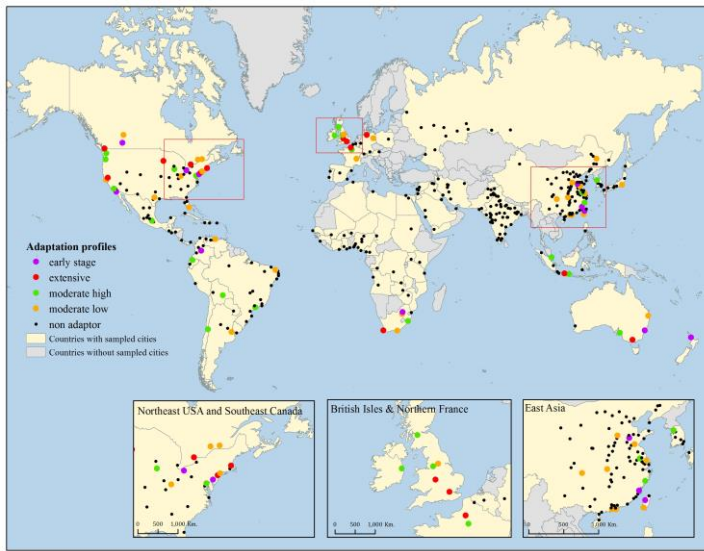
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Observed change among high-income countries (NC5-NC6)



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Tracking urban adaptation



Map by Malcolm Araos Egan

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What next?

Key challenges remain:

- Definitional
- Guidelines and verification
- Need for systematic reporting



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For more information find us at:

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TRAC3 was founded in 2014 to catalyze new research addressing conceptual, methodological, and empirical challenges associated with tracking global progress on adaptation to impacts of climate change.

We seek to:

- Clarify the concept of adaptation;
- Develop new methods of comparative analysis and hypothesis-testing;
- Build comprehensive adaptation datasets that support complex research.



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