

Middlebury College

INTRODUCTION

•One of the widely believed reasons for low public engagement in climate action is that people perceive climate impacts as <u>psychologically distant</u>.

Psychological Distance:

One's perceived distance to an event in terms of space, time, relevance to self, and uncertainty

• Individuals with high self-transcendence values, as opposed to high self-enhancement values, are more likely to perform <u>pro-environmental</u> behaviors and support climate policies (Bergquist et al., 2021).

Self-Enhancement: authority, influence, wealth

Self-Transcendence: equality, social justice, unity with nature

•Communicating local impacts of climate change does **not** always motivate action and may <u>backfire</u> for individuals with high self-enhancement values (Schoenefeld & McCauley, 2016).

METHODS

•Participants: 472 adults living in Texas

Climate impact information

Control IPCC climate impact description Proximal IPCC climate impact description + Hurricane Imelda in **Texas** Distant IPCC climate impact description + Cyclone Idai in Africa

•Psychological distance

Spatial - e.g. "Serious effects of climate change will mostly occur in areas far away from here."

Social - e.g. "I don't see myself as someone who will be affected by climate change."

•Climate engagement

Risk perception - e.g. "How serious are the current impacts of climate change?"

Personal behavioral intention - e.g. "In the next six months, how likely will you walk to the shops for 15 minutes, rather than driving there for 3 minutes?"

Climate policy support - e.g. "Increasing government funding for renewable energy companies."

Does Local Information Motivate Climate Support? Value and Political Identity as Moderators Wen Xu¹, Michelle McCauley, Ph.D.¹

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HYPOTHESES

H1	<u>Psychological distance:</u> control > dis		
H2	Climate engagement will <u>positively</u>		
	regardless of information conditions		
H3	There will be an <u>interaction</u> between		
	Stronger self-enhancement will cor		
	the <u>proximal</u> condition		

RESULTS





Confirmatory

H1: Control, proximal, or distal information had <u>no effect</u> on psychological distance (Figure 1).

H2: Self-transcendence positively predicted risk perception, b = 1.17, p < .001, behavioral intention, b = .22, p < .001, and policy support, b = .53, p < .001.

H3: Climate information <u>did not</u> interact with self-enhancement.

Exploratory

We split our sample into three sub-samples by political identity: conservative, neutral, and liberal.

In the conservative sample, distal information <u>increased</u> policy support for more **self-enhancing** individuals, *b* = .40, *p* < .05, *R*² = .29, *F*(8, 157) = 8.16.

In the liberal sample, distal information <u>decreased</u> policy support for more self-enhancing individuals, b = -.24, p < .05, $R^2 = .23$, F(8, 115) = 4.27.

Table 1

The effect of climate information and values on climate policy support in the conservative sample (N = 166).

Predictor	В	SE B	β
(Intercept)	1.39**	.49	
Self-transcendence	.40***	.16	.38
Self-enhancement	13	.17	14
Distal	86	.69	35
Proximal	68	.68	28
Self-transcendence × Distal	.06	.20	.09
Self-transcendence \times Proximal	.17	.21	.26
Self-enhancement × Distal	.40*	.20	.52
Self-enhancement × Proximal	.14	.21	.19
R^2	.30***		
F	8.16***		

stal > proximal correlate with self-transcendence

n information and self-enhancement: rrelate with <u>lower</u> climate engagement in



Figure 1. Psychological distance of climate change in the control, distal, and proximal conditions.



Figure 2. Relationships between self-enhancement and climate policy support across conditions for the conservative sample.

•<u>Ceiling effect:</u> participants had low psychological distance overall (M = 2.47, SD =0.87, 74.4% under 3 out of 5) •Nearly half (44.7%) of participants had personally experienced a hurricane •At a time and place where many people had been personally influenced by climate disasters, perhaps a short passage was simply not powerful enough to bring perceptions of climate impacts closer than it already was

Moderation of Political Identity

• Interactions between self-enhancement and proximity of information were not detected in a politically heterogeneous sample, but were revealed in politically homogeneous ones

Reactance to Proximal Information

• Distal information produced highest policy support for conservative, self-enhancing individuals: confirms literature on backlash in environmental support when proximal information is presented to groups associated with lower pro-environmental attitudes (Schoenefeld & McCauley, 2016; Roh et al., 2015; Duan et al., 2021)

235-240.

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DISCUSSION

Stability of Psychological Distance

REFERENCES

Bergquist, M., Nilsson, A., Harring, N., & Jagers, S. C. (2022). Meta-analyses of fifteen determinants of public opinion about climate change taxes and laws. Nature Climate Change, 12(3),

Duan, R., Takahashi, B., & Zwickle, A. (2021). How effective are concrete and abstract climate change images? The moderating role of construal level in climate change visual

communication. Science Communication, 43(3), 358-387. Roh, S., McComas, K. A., Rickard, L. N., & Decker, D. J. (2015). How motivated reasoning and temporal frames may polarize opinions about wildlife disease risk. Science *Communication*, *37*(3), 340-370.

Schoenefeld, J. J., & McCauley, M. R. (2016). Local is not always better: the impact of climate information on values, behavior and policy support. Journal of Environmental Studies and Sciences, 6, 724-732.

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