

RESEARCH CITATIONS

Climate Change Literature Reviewed



BUNDLED EVALUATION AND CAPACITY BUILDING PROJECT

A Synthesis of Climate Change Approaches and Models

AmeriCorps has contracted with ICF to conduct an evaluation that synthesizes information about climate change approaches and models across funding streams. The evaluation seeks to help AmeriCorps better understand its programs and projects that explicitly connect their work to climate change.

The evaluation will provide insights on a range of program activities related to outreach, education and training, disaster response, conservation, wildfire mitigation, and energy efficiency. Other areas to be explored include the ways in which the programs influence community resilience, changes in attitudes and behaviors toward civic engagement among national service members, and the development of job skills, including skills for green jobs. Programs and projects across AmeriCorps with similar program models and outcomes are being "bundled" together to better understand their work, but also to encourage knowledge sharing and capacity building around issues such as data collection, measurement, and evaluation.

A literature review was conducted to inform ICF's evaluation of AmeriCorps climate change-related programs and to update the knowledge and evidence base for volunteer approaches to address climate change. Additionally, the literature review incorporated a specific focus on approaches effective within vulnerable communities to identify promising approaches within the context of volunteer and nonprofit organizations. Following is the reference list of relevant studies from the literature reviewed:

- Arias, P. A., Villegas, J. C., Machado, J., Serna, A. M., Vidal, L. M., Vieira, C., Cadavid, C. A., Vieira, S. C., Ángel, J. E., & Mejía, Ó. A. (2016). Reducing social vulnerability to environmental change: Building trust through social collaboration on environmental monitoring. *Weather, Climate, and Society, 8*(1), 57–66. https://journals.ametsoc.org/view/journals/wcas/8/1/wcas-d-15-0049_1.xml
- Armstrong, A. K., Krasny, M. E., & Schuldt, J. P. (2018). *Communicating climate change: A guide for educators*. Cornell University Press https://www.degruyter.com/document/doi/10.7591/9781501730801/html
- Chatrchyan, A., & Eiseman, D. (2020). Climate stewards: Studying the feasibility of a new cooperative extension climate change volunteer program for the Northeastern USA. Cornell College of Agriculture and Life Sciences. https://cpb-us-el.wpmucdn.com/blogs.cornell.edu/dist/1/7755/files/2021/08/Final-Climate-Stewards-White-Paper-Sept2020.pdf
- Cuervo, I., Leopold, L., Baron, S. (2017). Promoting community preparedness and resilience: A Latino immigrant community–driven project following Hurricane Sandy. *American Journal of Public Health 107* (S2), 161–164. https://doi.org/10.2105/AJPH.2017.304053
- Gillingham, K. T., & Bollinger, B. (2021). Social learning and solar photovoltaic adoption. *Management Science*, 67(11), 7091–7112. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3500930
- Grant, A., & Langer, E. R. (L.). (2021). Wildfire volunteering and community disaster resilience in New Zealand: Institutional change in a dynamic rural social-ecological setting. *Ecology & Society, 26*(3), 170–191. https://doi.org/10.5751/ES-12474-260318
- Gray, S., Jordan, R., Crall, A., Newman, G., Hmelo-Silver, C., Huang, J., Novak, W., Mellor, D., Frensley, T., Prysby, M., & Singer, A. (2017). Combining participatory modelling and citizen science to support volunteer conservation action. *Biological Conservation*, 208, 76–86.
- Hirshfield, S., & Iyer, P. J. (2012). The community energy champions grant: Building local organizational capacity to catalyze community energy behavior change. 2012 American Council for an Energy Efficient Economy Summer Study on Energy Efficiency in Buildings Fueling Our Future with Efficiency. https://www.aceee.org/files/proceedings/2012/data/papers/0193-000205.pdf
- Kueper, A. M., Sagor, E. S., Blinn, C. R., & Becker, D. R. (2014). Extension forestry in the United States: Master volunteer and other peer-learning programs. *Journal of Forestry, 112*(1), 23–31. https://academic.oup.com/jof/article/112/1/23/4599693
- Miller Hesed, C. D., Van Dolah, E. R. & Paolisso, M. (2020). Engaging faith-based communities for rural coastal resilience: Lessons from collaborative learning on the Chesapeake Bay. *Climatic Change, 159, 37–57*. https://doi.org/10.1007/s10584-019-02638-9
- Miller, T., Goodling, E., Herrington, C., & Devlin, J. (2015). The community watershed stewardship program: Experiments in engagement and equity in Portland, OR. *Current Opinion in Environmental Sustainability, 17,* 30–35.

 https://www.sciencedirect.com/science/article/abs/pii/S1877343515000925#preview-section-abstract



- Reames, T. G. (2016). A community-based approach to low-income residential energy efficiency participation barriers. *Local Environment, 21*(12), 1449–1466.

 https://justurbanenergy.files.wordpress.com/2018/03/reames-2016-a-community-based-approach.pdf
- Shih, R. A., Acosta, J. D., Chen, E. K., Carbone, E. G., Xenakis, L., Adamson, D. M., & Chandra, A. (2018). Improving disaster resilience among older adults: Insights from public health departments and aging-in-place efforts. Rand Health Quarterly, 8(1), 3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6075802/
- Twigg, J., & Mosel, I. (2017). Emergent groups and spontaneous volunteers in urban disaster response. Environment and Urbanization, 29(2), 443–458. https://doi.org/10.1177/0956247817721413
- van Zeller, L. (2012). Climate change readiness for community services. *International Journal of Climate Change: Impacts and Responses, 3*(4), 71–78.
- Whittaker, J., McLennan, B., & Handmer, J. (2015). A review of informal volunteerism in emergencies and disasters: Definition, opportunities and challenges. *International Journal of Disaster Risk Reduction, 13,* 358–368. https://www.sciencedirect.com/science/article/pii/S2212420915300388
- Will, A., & Baker, K. (2013). The role of nonprofit organizations and public programs in promoting home rehabilitation and repair activity. Joint Center for Housing Studies, Harvard University. https://www.jchs.harvard.edu/sites/default/files/w13-3_will_baker_O.pdf
- Yuen, T., Yurkovich, E., Grabowski, L., & Altshuler B. (2017). Guide to equitable, community-driven climate preparedness planning. Urban Sustainability Directors Network.

 https://www.usdn.org/uploads/cms/documents/usdn_guide_to_equitable_community-driven_climate_preparedness-_high_res.pdf



Acknowledgements

The ICF evaluation team would like to acknowledge the many members of the AmeriCorps Office of Research and Evaluation (ORE) and the participating AmeriCorps-supported organizations, as well as the AmeriCorps members and VISTAs and community partners who are contributing to this study. They have provided valuable information and feedback to ensure the evaluation team is able to fully capture varied approaches to tackling climate change and how programs are able to leverage AmeriCorps national service models to address this critical priority. The evaluation team looks forward to continued collaboration with ORE on high-quality evaluation work that can inform policy and practice regarding how national service may be used to address national priorities. Finally, we would like to thank the esteemed members of the Technical Working Group—Rachel Bruns, Dr. Leslie Goodyear, Dr. Kathryn Newcomer, Gabriel Rhoads, Dr. Herbert Turner, Dr. Abraham Wandersman—who advise and provide feedback to improve the quality and clarity of this evaluation.

About AmeriCorps

AmeriCorps, the federal agency for national service and volunteerism, provides opportunities for Americans to serve their country domestically, address the nation's most pressing challenges, improve lives and communities, and strengthen civic engagement. Each year, the agency places more than 200,000 AmeriCorps members and AmeriCorps Seniors volunteers in intensive service roles and empowers millions more to serve as long-term, short-term, or one-time volunteers. Learn more at AmeriCorps.gov.

About the Office of Research and Evaluation

The <u>AmeriCorps Office of Research and Evaluation</u> assists AmeriCorps and its partners in collecting, analyzing, and disseminating data and insights about AmeriCorps programs and civic life in America.

This report was commissioned by AmeriCorps' Office of Research and Evaluation under Contract #GSOOQ14OADU209 and Order #95332A20F0075. Information in this report is in the public domain.

Suggested Citation

Good, K. & Rakes, E. (2024). Research citations: Climate change literature review. ICF.

Photo Credit

AmeriCorps

About ICF

ICF (NASDAQ:ICFI) is a global consulting and digital services company with over 9,000 full- and part-time employees, but we are not your typical consultants. At ICF, business analysts and policy specialists work together with digital strategists, data scientists and creatives. We combine unmatched industry expertise with cutting-edge engagement capabilities to help organizations solve their most complex challenges. Since 1969, public and private sector clients have worked with ICF to navigate change and shape the future. Learn more at icf.com. For additional information about ICF, please contact:

ICF

1902 Reston Metro Plaza, Reston, VA 20190 Phone: 703-934-3603 or 1-800-532-4783 Fax: 703-934-3740 Email: info@icf.com







