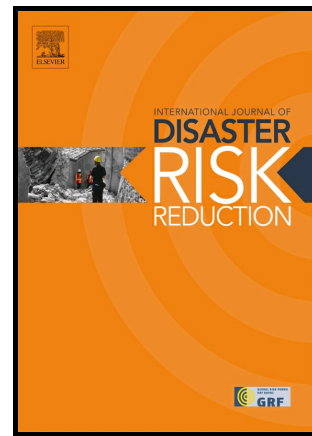


# Author's Accepted Manuscript

Eyeing the storm: How residents of coastal Florida see hurricane forecasts and warnings

Ann Bostrom, Rebecca Morss, Julie Demuth,  
Heather Lazrus, Jeffrey K. Lazo



[www.elsevier.com/locate/ijdr](http://www.elsevier.com/locate/ijdr)

PII: S2212-4209(18)30219-X  
DOI: <https://doi.org/10.1016/j.ijdr.2018.02.027>  
Reference: IJDRR809

To appear in: *International Journal of Disaster Risk Reduction*

Received date: 31 August 2017  
Revised date: 16 January 2018  
Accepted date: 15 February 2018

Cite this article as: Ann Bostrom, Rebecca Morss, Julie Demuth, Heather Lazrus and Jeffrey K. Lazo, Eyeing the storm: How residents of coastal Florida see hurricane forecasts and warnings, *International Journal of Disaster Risk Reduction*, <https://doi.org/10.1016/j.ijdr.2018.02.027>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Eyeing the storm: How residents of coastal Florida see hurricane forecasts and warnings**

Ann Bostrom<sup>a</sup>, Rebecca Morss<sup>b</sup>, Julie Demuth<sup>b</sup>, Heather Lazrus<sup>b</sup>, Jeffrey K. Lazo<sup>c</sup>

<sup>a</sup>University of Washington

<sup>b</sup>

National Center for Atmospheric Research

<sup>c</sup>Jeffrey K. Lazo Consulting LLC

abostrom@uw.edu

**Abstract:** This paper examines the societal dimensions of warning decisions during extreme weather events in one of the most hurricane-prone areas in the U.S., Miami-Dade County, Florida. With the aim of informing improvements in the hurricane forecast and warning system, and better understanding warning decisions in extreme weather events, we explore how members of the public obtain and use hurricane forecasts and warnings in decision making. Results from in depth mental models interviews with members of the public (N=28) and survey data from three counties in Florida (N=460) show that a large majority of respondents have some hurricane experience, which influences their thinking about storm impacts, individual actions to mitigate the hazard, and vulnerability to the hazard. Comparison with results from previous research with warning system professionals (National Weather Service forecasters, media broadcasters, and public officials) indicates several gaps between professionals and laypeople including different perceptions of hurricane risks overall and related to flooding from storm surge. The findings suggest several areas for improvements in the hurricane forecast and warning system.

Keywords: hurricane, forecast, warning, mental models, risk communication

Download English Version:

<https://daneshyari.com/en/article/7471354>

Download Persian Version:

<https://daneshyari.com/article/7471354>

[Daneshyari.com](https://daneshyari.com)