

Catherine F. Smith & Donna J. Kain East Carolina University

SEA GRANT NORTH CAROLINA RESEARCH SYMPOSIUM: INVESTMENTS & OPPORTUNITIES

April 16, 2014





Research Goal & Objectives

Generate a model of risk and emergency communication foregrounding the ways that different sectors of the public seek, access, and respond to information processes and products related to hurricanes and tropical storms.

Objective 1	Identify, rank, rate sources of emergency information used by the public.
Objective 2	Identify demographic and communication factors that influence risk perception and response. Examine official and unofficial information sources, media, personal beliefs, local norms and the relationships among factors.
Objective 3	Assess the public's trust in and ability to use information sources.
Objective 4	Evaluate strategies for communicating about risks and emergencies.
Objective 5	Disseminate recommendations from research.





Emerging ConceptsRelevant to the Warning Process

There is no general public.

Two publics use watches and warnings

Public 1: Individuals, households, businesses, organizations

Public 2: Government agencies for emergency management

"One size does not fit all."

- Within publics 1 and 2, there are subgroups.
- Their information needs and uses differ.





Public 1 People in Harm's Way

A limited English population of Latino/ Latina year-round residents in 1 North Carolina coastal plain county (*N=21 interview*) Year-round residents in 20 North Carolina coastal counties (*N*=133 interview, *N*=1079 survey)

• Interpret watch/warning text accurately (100%)

- Interpret watch/warning text accurately (75%)
- Interpret forecast map inaccurately (majority)
- Interpret forecast map inaccurately (majority)
- Use these information sources: radio (local Spanish stations); television (national Spanish or local English channels); telephone alerts by schools; friends/family; internet websites
- Use these information sources: television (local, national); radio (local station); friends/family; internet websites

Disaster plan: 0%

Disaster plan: 68%

- Act on watch/warning: prepare (money, food); evacuate (100%)
- Act on watch/warning: seek more information (66%); prepare (shelter in place 33%); evacuate (7%)





Businesses and Organizations Research participants

609 Phone Interviews

20 CAMA Counties

116 Interviews and focus groups

 6 counties: Bertie, Carteret. Currituck, Dare, New Hanover, Pitt

Number of Employees	Formal Written Plan
1-10	35 %
11-40	67 %
41-80	83 %
81-<1000	100 %





Emerging ConceptsTypology for Planning and Decision Making

Affiliation & Information Seeking Behavior

Independent

Low levels of input from others about plans but use of more information & more active information gathering

Collaborative

Higher levels of input from others about plans; use of more information sources & more active information gathering

Isolated

Little input from others about plans; fewer information sources & less active information gathering

Cooperative

Higher levels input from others about plans but use of fewer information sources & less active information gathering





Findings

Affiliation & Information Seeking as Planning Predictors

Collaborative & Cooperative Organizations:

- Scored higher on affiliation
- 26—28% more likely, respectively, to have formal, written emergency plans

Isolated Organizations:

- Lowest scores for affiliation and information sources and seeking
- Less likely to have a formal written plan than any other type of organization



