Scientists As Media Sources for Wildlife & Fisheries Issues in Florida

J. Stuart Carlton
Susan K. Jacobson
Cynthia Langin

Wildlife Ecology & Conservation/ Natural Resources & Environment University of Florida

Problem

65%

of scientists think public knowledge is a major problem.



of scientists think news media doesn't distinguish between well-founded and unfounded science.

460/

of scientists think news media oversimplifies science.



of the public believes in anthropogenic climate change.

39/

of the public believes in human evolution.

of the public believes in ESP.

How do media (ab)use scientists?

Framing Theory

Framing:

A process of selection & salience





How do media (ab)use scientists?



- Net Ban

- Reef Fishery

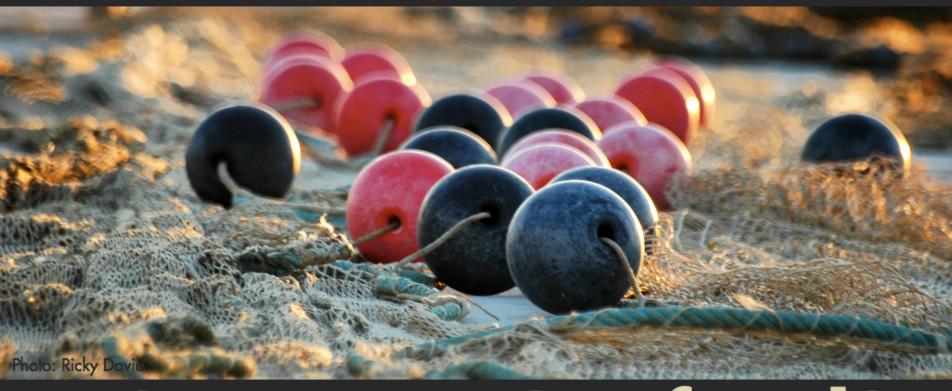
- Florida Panther Recovery

The Net Ban:



Save our Sealife?

The Net Ban:



Save our Seafood?

There was very little scientific evidence for the net ban



Florida's Reef Fishery



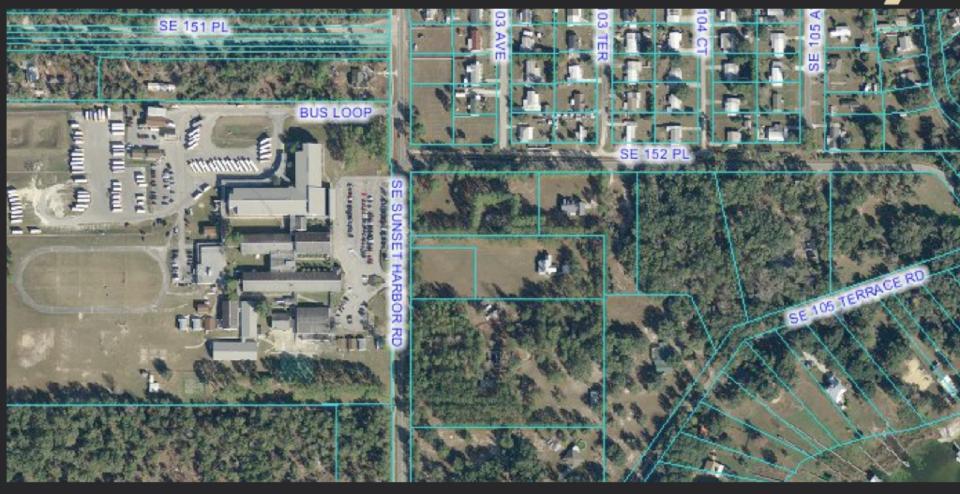
"Some of the ugliest data I've ever seen..."

Photo: Mike Johnson

Florida Panther Recovery



Florida Panther Recovery



Changing land use, changing habitat

- Politically contentious
- Multi-stakeholder
- Scientifically uncertain

Methods

Content Analysis:

"Systematic and replicable examination of the symbols of communication" (Riffe & Lacey)

Sample

- Net Ban

Orlando Sentinel, St. Pete Times, Tampa Tribune 1992–1994

- Reef Fishery

St. Pete Times, Tampa Tribune 2004–2006

- Florida Panther Recovery

Florida Times Union, St. Pete Times, Tampa Tribune 2004– 2006

3 Research Questions

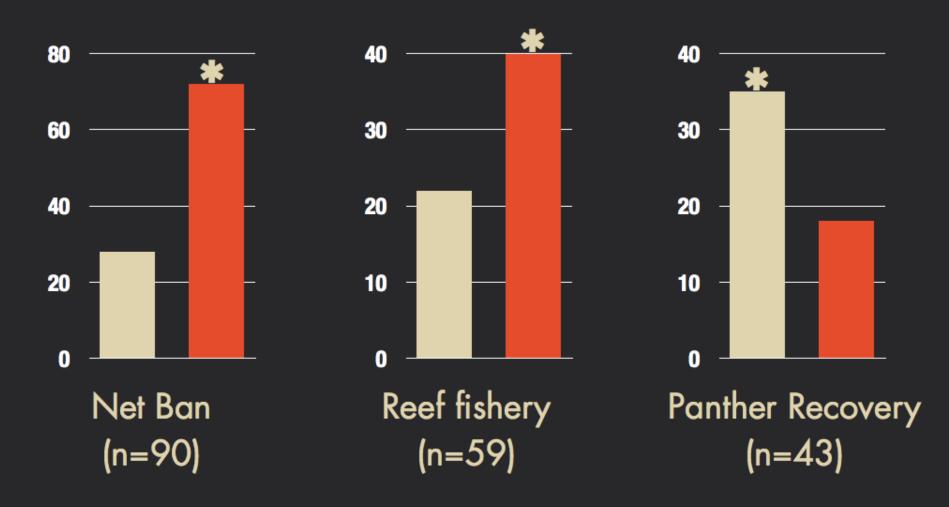
1. Were scientists a significant source of information?

2. Were scientists' quotes more hedged than nonscientists'?

3. Were scientists' quotes significantly harder to read than nonscientists'?



No. articles quoting <u>scientists</u> & <u>nonscientists</u>

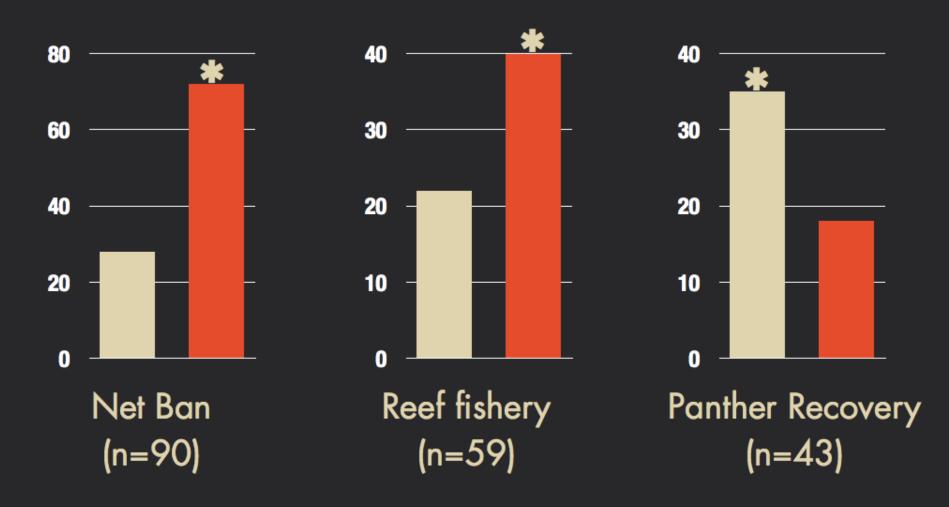


*Significantly higher (Fisher's exact p<0.05)

Explanation?

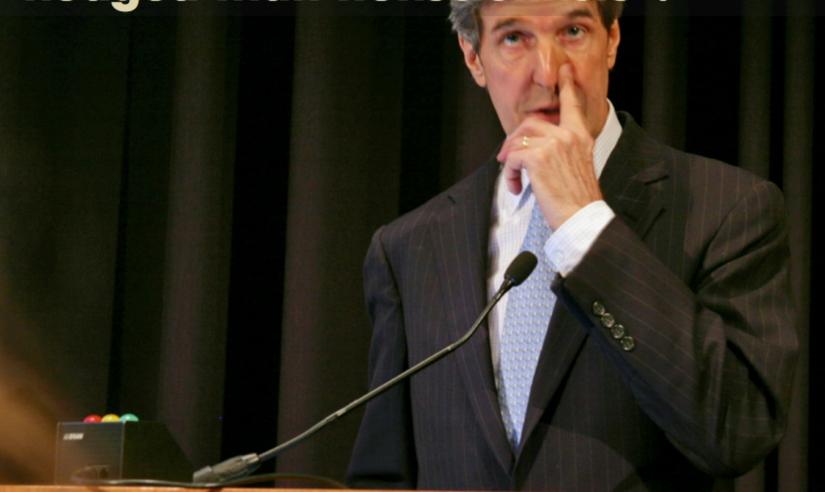
Scientists decline as news sources as an issue becomes increasingly politicized

No. articles quoting <u>scientists</u> & <u>nonscientists</u>

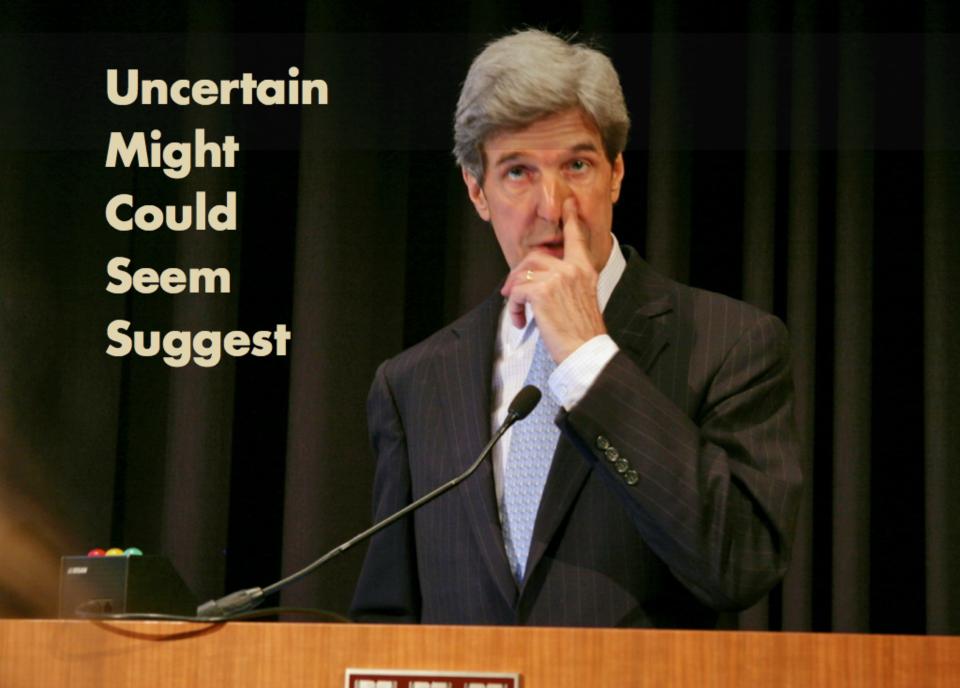


*Significantly higher (Fisher's exact p<0.05)

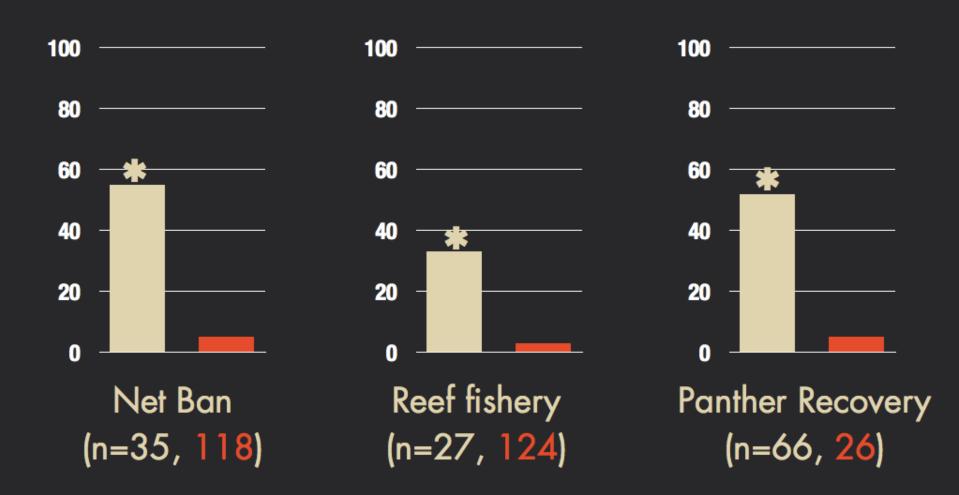
Q2: Were scientists' quotes more hedged than nonscientists'?







% hedged quotes from scientists & nonscientists



Significantly higher (Fisher's exact p<0.05)

Q3: Were scientists' quotes significantly harder to read than

nonscientists'?



Quotes' Readability

Source	# Sentences	Reading Ease (higher=easier)	
Scientist	83	70.11	7.19*
Non- scientist	341	74.30*	5.94

(Reef fishery data only, *=p<0.01)

Results

Scientists were quoted less in the fishery issues, but more in the panther issue



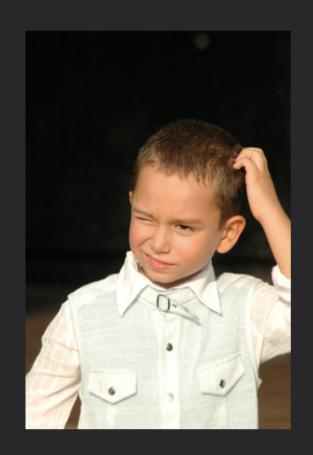
Results



Scientists'
quotes were
significantly
more hedged
than
nonscientists'

Results

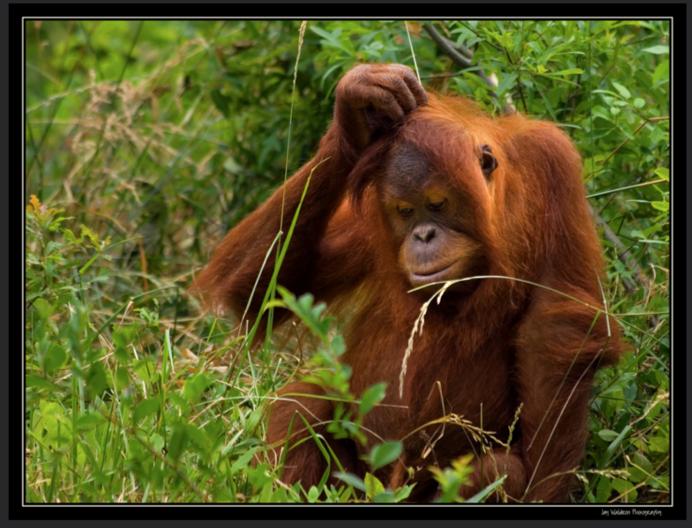
Scientists' quotes were significantly harder to read than nonscientists'



Lessons Learned



When newspapers focus on the fight, science can lose.



Scientists' quotes have a tendency to be hedged & technical.



Scientists could do a better job of presenting information in a media-friendly manner



Contact: Stuart Carlton

stuart.carlton@ufl.edu (352) 388-1234