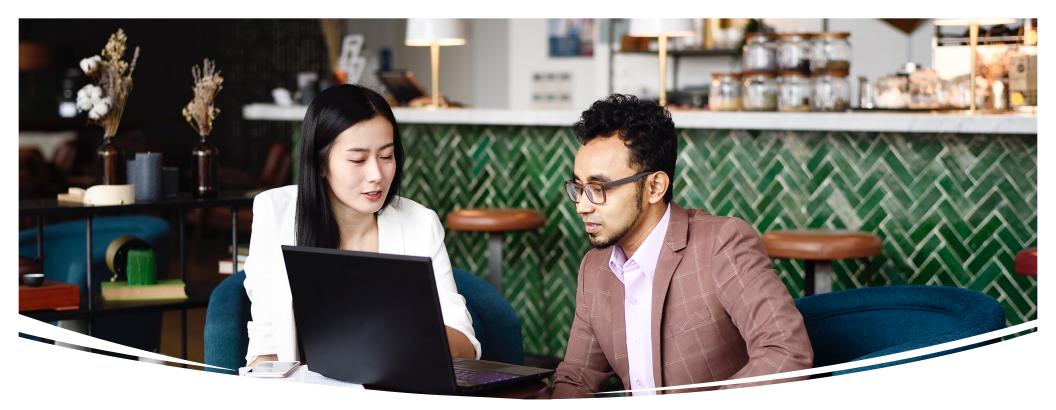
Marketing Your Science

From a person who likes talking about stuff...

Jill Trepanier, Associate Professor, Geographer and Hurricane Climatologist Louisiana State University South Central CASC 2022





ls a scientist a salesperson?

Let's explore...shall we?

A LITTLE ABOUT MY SCIENCE

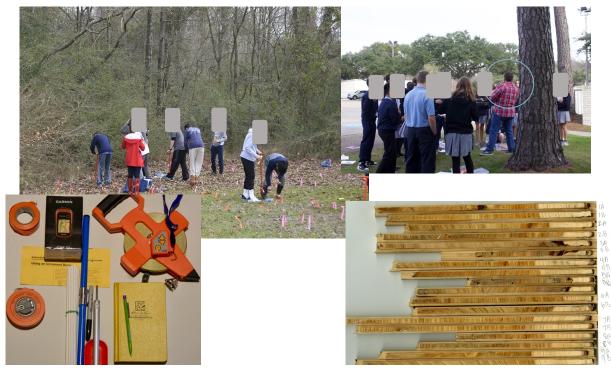
Estimate extreme weather behavior (especially hurricanes) in various places and in various climate conditions

How the world of statistics meets maps



THIS, TOO♦ Bring climate science to Environmental Science classrooms

School-Aged Citizen Scientists Become Amateur Climatologists



47% learning gains in tree-ring science! ---this is the one where climate change is represented







Reasons why we market our science

Interactive time!!

Oh, yes...it's like school...raise your hand and tell the group why we might need to market our science.



Reasons why we market our science

- To provide a solution to a known problem
- To better protect someone or something
- 3. To help someone better understand
- 4. To get money (let's be real) to solve problems and pay ourselves
- 5. To teach someone

Making your Science Marketable

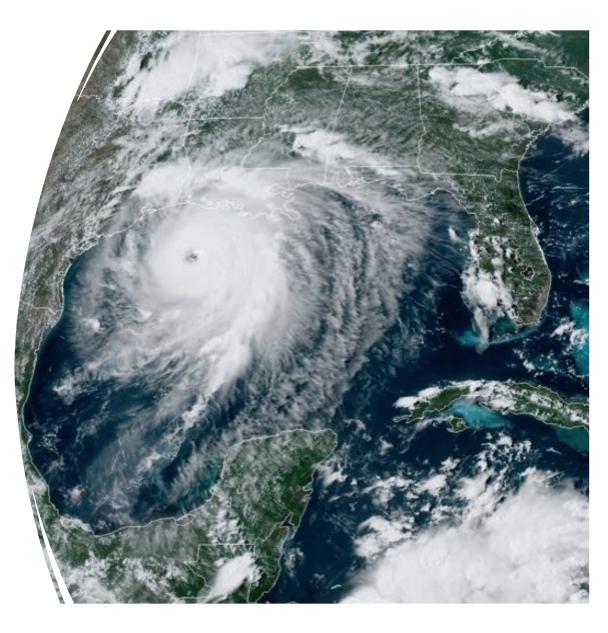
AKA: "How to sell your science?"





Selling my Science – disclaimer

All together now...what is showing in this picture?



OK, so how do l do it? My process begins with...

1. WANTING to talk to people...this is not easy for some

 Let your students (or those who ask you questions) lead the way

2. Recognizing there is more than one path to get to the same result.

They can't all be straight lines (are they ever?!)



Why students?

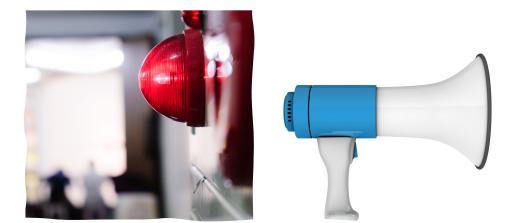
- Because they think they don't like science (not those of us in this room), so I'm actively competing against their desire to NOT LEARN. It's a tough crowd.
- Plus, you really begin to understand and accept that not all people learn the same way. But all people CAN learn.
- I find if a person understands, they will come to a similar conclusion for what is needed and, thus, be more likely to "buy your science"



Transferring that idea to a stakeholder

 $\underline{\text{SOLUTIONS FIRST}};$ and a "how can I help you" mentality goes a long way

- With a student, it's about that grade... (how can I help you get that A?)
- With a resource or policy manager who is hearing bad news from you (let's face it, most of what we talk about isn't happiness and rainbows) about something they must adapt to or funnel resources toward and they don't want to (or don't believe you, or don't agree with you, or want to use the money elsewhere)...<u>it's about solving their problem and making it known how it will make their life better in some way.</u>





Additional Places to Market

Opinion Education Articles and Radio/TV

The New York Times

Opinion

Imagine if We Listened to Scientists Before the Hurricane

Make sure you are on organizations' lists of "experts"

When community members know more about how to protect their homes and businesses, they become more resilient to disaster.

By Jill C. Trepanier Dr. Trepanier is a climate scientist



Hurricanes 100 years later — it isn't all about the number

BY JILL TREPANIER, OPINION CONTRIBUTOR — 10/12/20 12:30 PM EDT THE VIEWS EXPRESSED BY CONTRIBUTORS ARE THEIR OWN AND NOT THE VIEW OF THE HILL 293 COMMENTS

Practice your "Elevator pitch"

Final Level of Graduate School - but it shouldn't stop there! Each different community needs a different version of your elevator pitch - (that is, say what you study in 30 seconds or less).

- Classroom: I study where and why bad weather happens, especially hurricanes. I also like to think about how bad weather will change in a world where ice caps and glaciers are melting or when they are growing.
- Stakeholder: I provide localized risk of extreme weather. I can use a variety of different visualization techniques, such as mapping tools or statistical tools to help you understand what you can expect and where you can expect it, so you can spend your money wisely.
- Academic: I use quantitative approaches to better understanding how climate change will impact tropical cyclone development. I can use the techniques on any extreme weather event, but my particular focus is on tropical systems in the North Atlantic.



Do THIS...not THAT

 DON'T tell someone how many problems they have. They probably already know. You'll do nothing but force defensive behavior.
DO tell someone the ideas you have to solve their problems. And conversate with them...discuss...they probably have great ideas that can add to your solution.

Do THIS...not THAT

- DON'T talk extremely quickly *unless you are trying to confuse them* (which you shouldn't be)
 - 1. DO pace yourself and attempt to be as clear as possible. They don't need to know ALL of the details - that's what makes you the expert. They just need to know the main points that matter for them.



Do THIS...not THAT

- 3. DON'T tell someone they are flat-out wrong also forces defensive behavior. And when someone is wrong, it typically comes from a misunderstanding in the science...be a teacher and try to help put the pieces together correctly for them without making them feel foolish.
 - 1. D0 encourage someone when they are trying to understand something, and lead with compassion and kindness^{*}. Even if they are mixed-up in their understanding, a little encouragement can go a long way toward wanting to learn (the right stuff) from you so they can make better decisions. Remember, to market your science properly, you need to actually WANT to talk to people. It can't be faked, and it can't be forced. They'll see right through you and stop caring (wouldn't you?).

Problems do not need to be sugar-coated, but there are ways to help someone see what is needed without being abrasive or aggressive

Thank you for listening

I hope this helps you in some way. Let's open it up for some Q&A.

Hurricane Laura

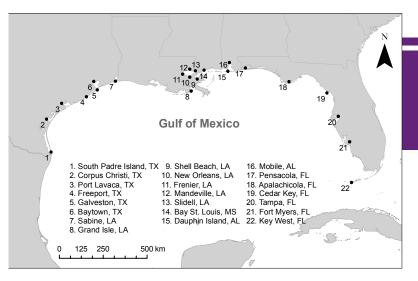
2020

Email: jtrepa3@lsu.edu

26 Aug 2020 20:16Z NOAA/NESDIS/STAR GOES-East GEOCOLOR

More Stuff...Should you want it

• Examples of where statistics and mapping meet





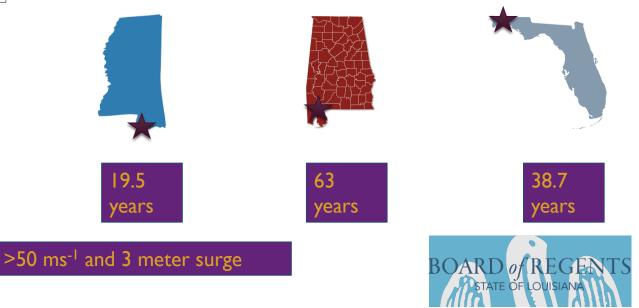






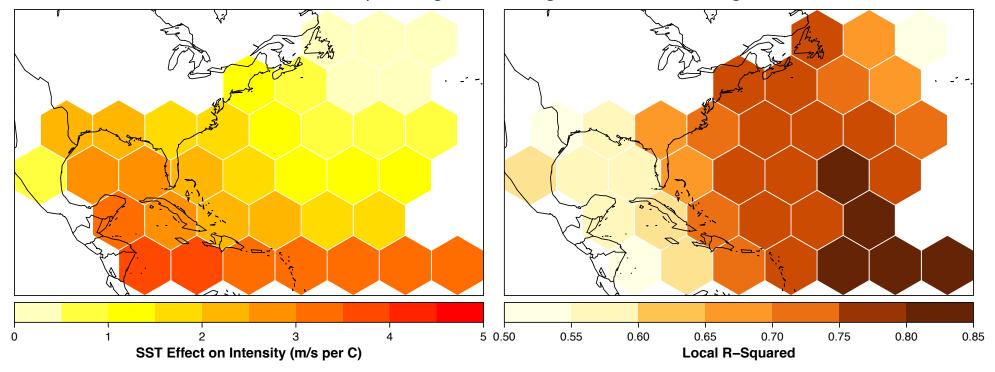
RESEARCH AT LSU - HURRICANES

The Combined Risk of Extreme Tropical Cyclone Winds and Storm Surges along the U.S. Gulf of Mexico Coast

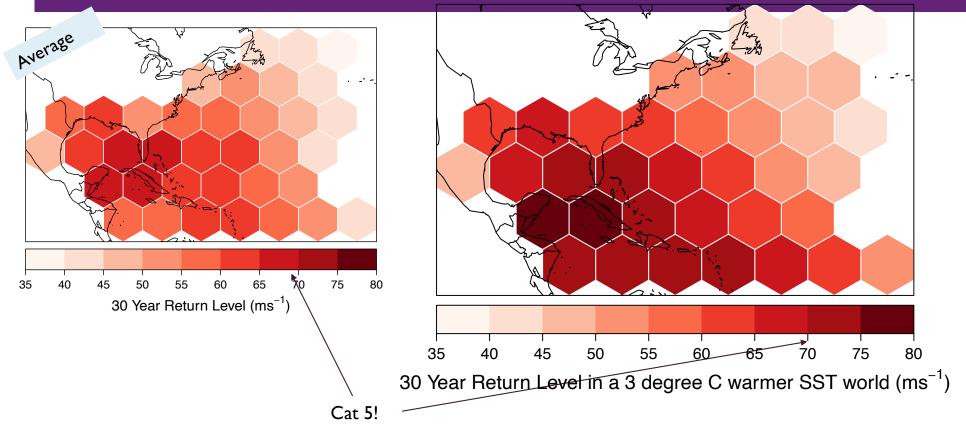


RESEARCH AT LSU - FINDING RELATIONSHIP WITH SST AND INTENSITY

Model the observational maximum values per hexagon with average SST values, controlling for count



RESEARCH AT LSU - RETURN LEVELS IN 3-DEGREE WARMER SST



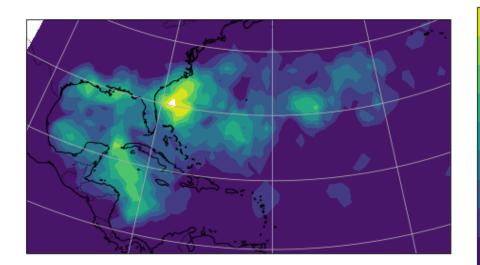
RESEARCH AT LSU – STALLING HURRICANES

18

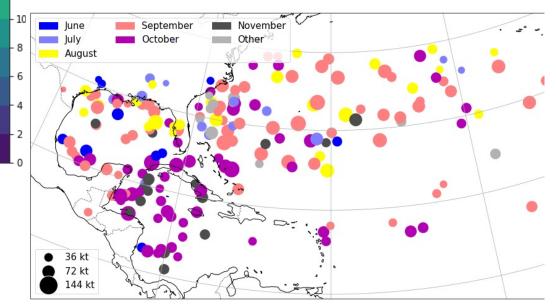
- 16

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RESEARCH AT LSU – OUTREACH EFFORTS

The New York Times

Opinion

Imagine if We Listened to Scientists Before the Hurricane

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By Jill C. Trepanier

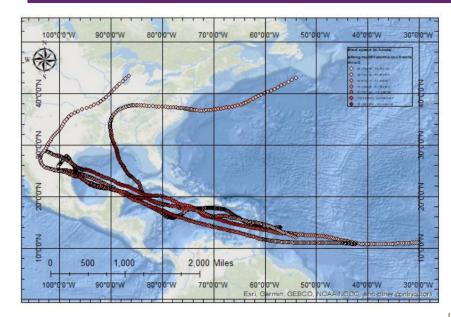
Dr. Trepanier is a climate scientist at Louisiana State University.

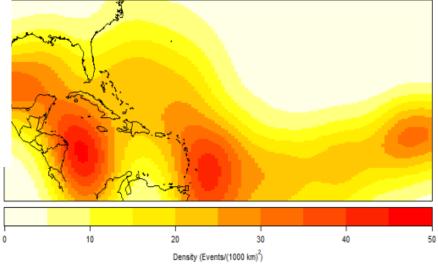


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GRADUATE RESEARCH AT LSU – RAPID INTENSIFICATION







GRADUATE RESEARCH AT LSU – GAMMA RAY BURSTS IN LIGHTNING (COMPLETED)

