

Children in a Changing Climate



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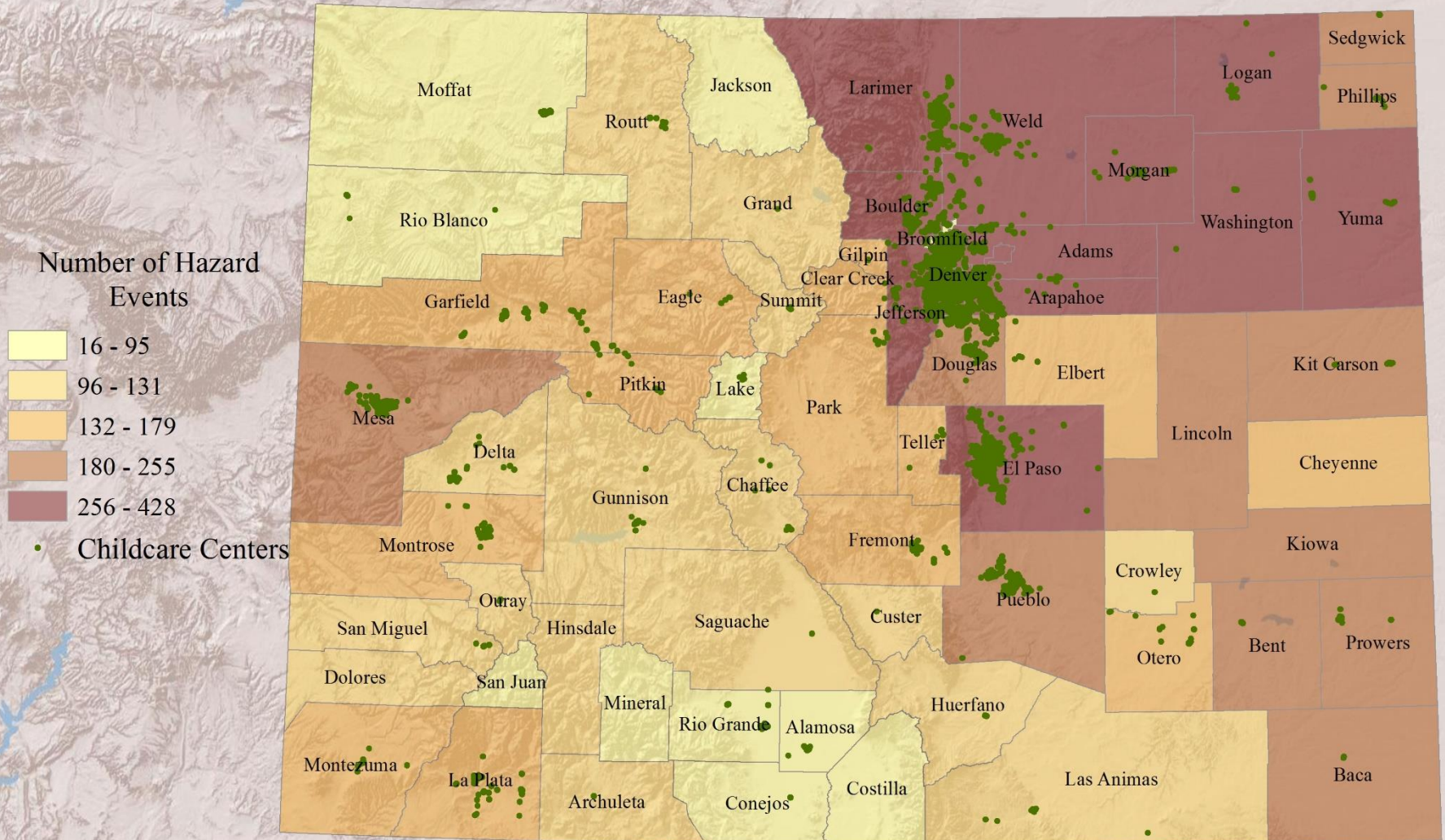
Center for Disaster and Risk Analysis

Colorado State University

A young boy with dark skin and short hair stands in the center of the frame, looking directly at the camera with a serious expression. He is wearing a white long-sleeved shirt, light blue denim shorts, and white sneakers with black laces. He is standing on a pile of wooden planks and debris. In the background, there is a light-colored, single-story house with a porch, and another house is visible to the left. The ground is covered with dirt and scattered wood, suggesting a disaster or demolition site.

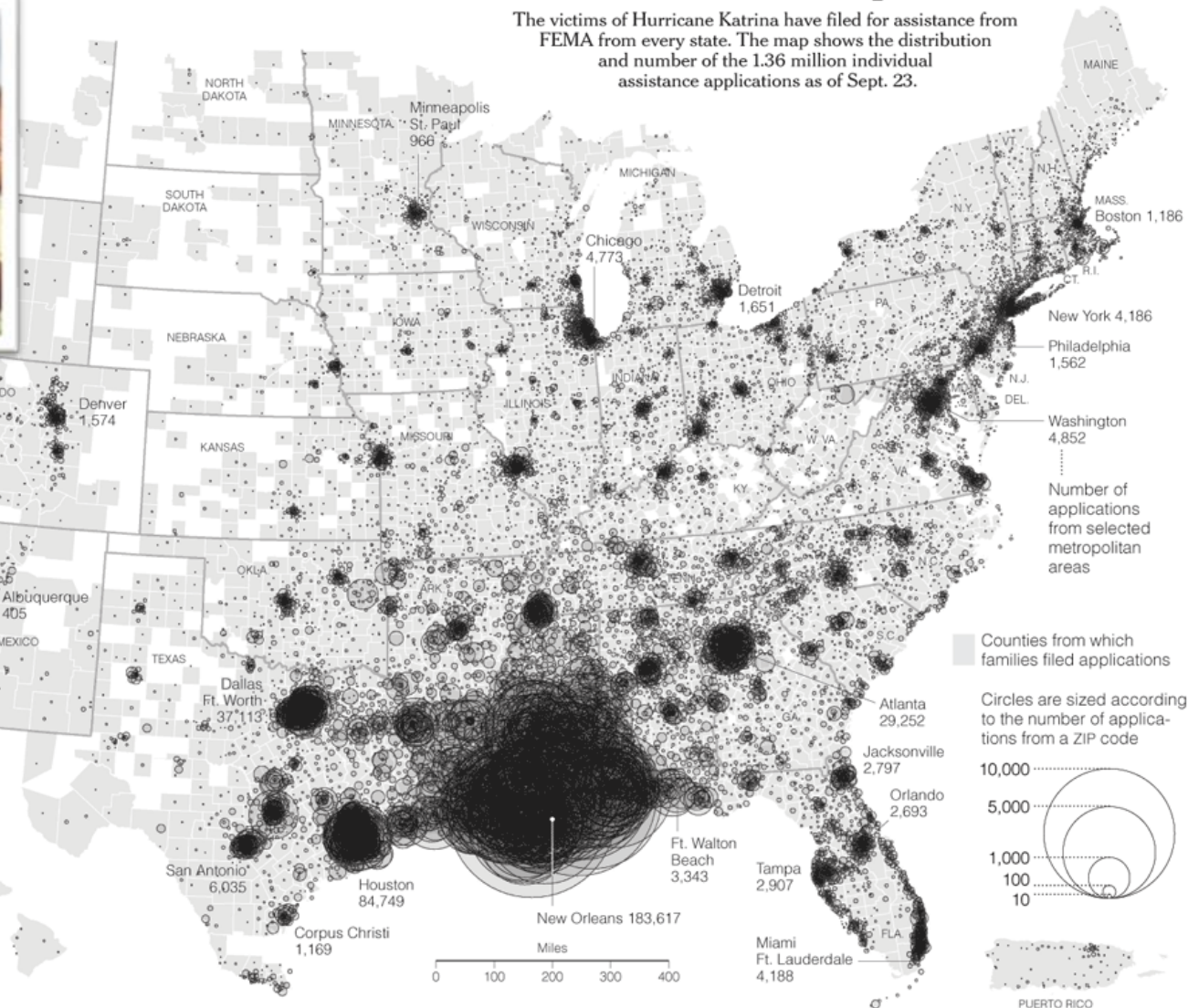
Studying Children in Disaster Contexts

Locations of Colorado Childcare Centers and Total Number of Hazard Events, 1960-2010



Katrina's Diaspora

The victims of Hurricane Katrina have filed for assistance from FEMA from every state. The map shows the distribution and number of the 1.36 million individual assistance applications as of Sept. 23.



They are scattered through all 50 states, the District of Columbia and Puerto Rico — 623 in Utah, 1,114 in Kansas, 101 way out in Alaska. They are clustered by the thousands in large Southern cities like Dallas, Atlanta and Memphis, and huddled in handfuls in unlikely hamlets like Shell Knob, Mo. (pop. 1,393) and Fountain Run, Ky. (pop. 236).

Evacuees fled Hurricane Katrina and the floods that followed in caravans of cars and fleets of buses, on helicopters and

emerges of where they landed, based on ZIP codes from which applications for aid were submitted to the Federal Emergency Management Agency as of Sept. 23.

Of 1,356,704 applications, 86 percent came from Louisiana, Mississippi, Texas and Alabama. But 35,539 families were more than 1,000 miles from the Gulf — among the farthest: one in Nome, Alaska, 3,931 miles from the French Quarter and another in Lihue, Hawaii, 4,279 miles away. Residents of New Orleans, a city that

centers. On average, the applicants came from counties where blacks were 28 percent of the population, more than twice the national average.

Baton Rouge, La., appears to be temporary home to 10 percent of evacuees, Houston 6.25 percent. But after the top 18 hubs, applicants are spread like the wind that whipped through their old neighborhoods: none of the other 900-plus metropolitan areas has even 1 percent of the total. Some 4,000 ZIP codes — among them

Applications by state

Louisiana	523,149	38.6%
Mississippi	383,840	28.3%
Texas	156,895	11.6%
Alabama	109,469	8.1%
Georgia	35,342	2.6%
Florida	31,005	2.3%
Tennessee	15,529	1.1%
Arkansas	11,027	0.8%
California	10,953	0.8%
Illinois	4,773	0.4%
Michigan	1,651	0.1%
Wisconsin	968	0.1%
Minnesota	968	0.1%
North Dakota	968	0.1%
South Dakota	968	0.1%
Nebraska	968	0.1%
Kansas	968	0.1%
Oklahoma	968	0.1%
Arkansas	968	0.1%
Missouri	968	0.1%
Illinois	968	0.1%
Indiana	968	0.1%
Ohio	968	0.1%
West Virginia	968	0.1%
Virginia	968	0.1%
North Carolina	968	0.1%
South Carolina	968	0.1%
Georgia	968	0.1%
Florida	968	0.1%
Alabama	968	0.1%
Mississippi	968	0.1%
Louisiana	968	0.1%

Applications by distance from New Orleans

MILES	APPLICANTS	PCT.
0-100	626,232	46.2%
100-200	338,080	24.9%
200-400	184,169	13.6%
400-800	143,497	10.6%
800-1,600	45,371	3.3%
1,600-3,200	13,403	1.0%
3,200+	232	0.0%

Distances could not be calculated for 0.4 percent of applications.



THE KATRINA BOOKSHELF

Children of Katrina

ALICE FOTHERGILL AND LORI PEEK







YOUTH
CREATING
DISASTER
RECOVERY &
RESILIENCE



Bragg Creek, AB
Canmore, AB
Exshaw, AB

Slave Lake, AB

Calgary, AB

High River, AB

Medicine Hat, AB

Boulder, CO
Estes Park, CO
Evans, CO
Fort Collins, CO
Greeley, CO



Colorado Springs, CO

Joplin, MO



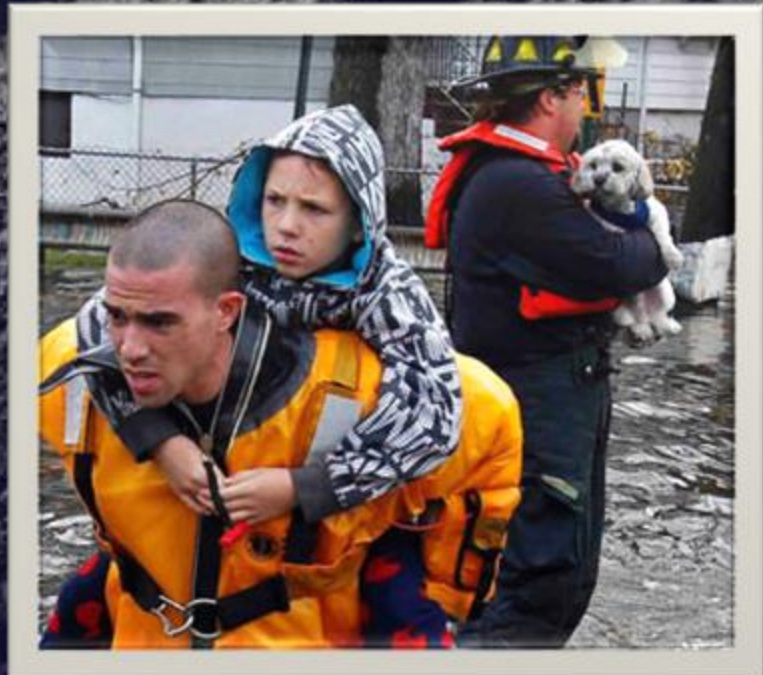
Current Research Sites



Future Research Sites



YCDR Research Team





03.16.2008



Global Climate Change and Inequality: Local to Global Perspectives

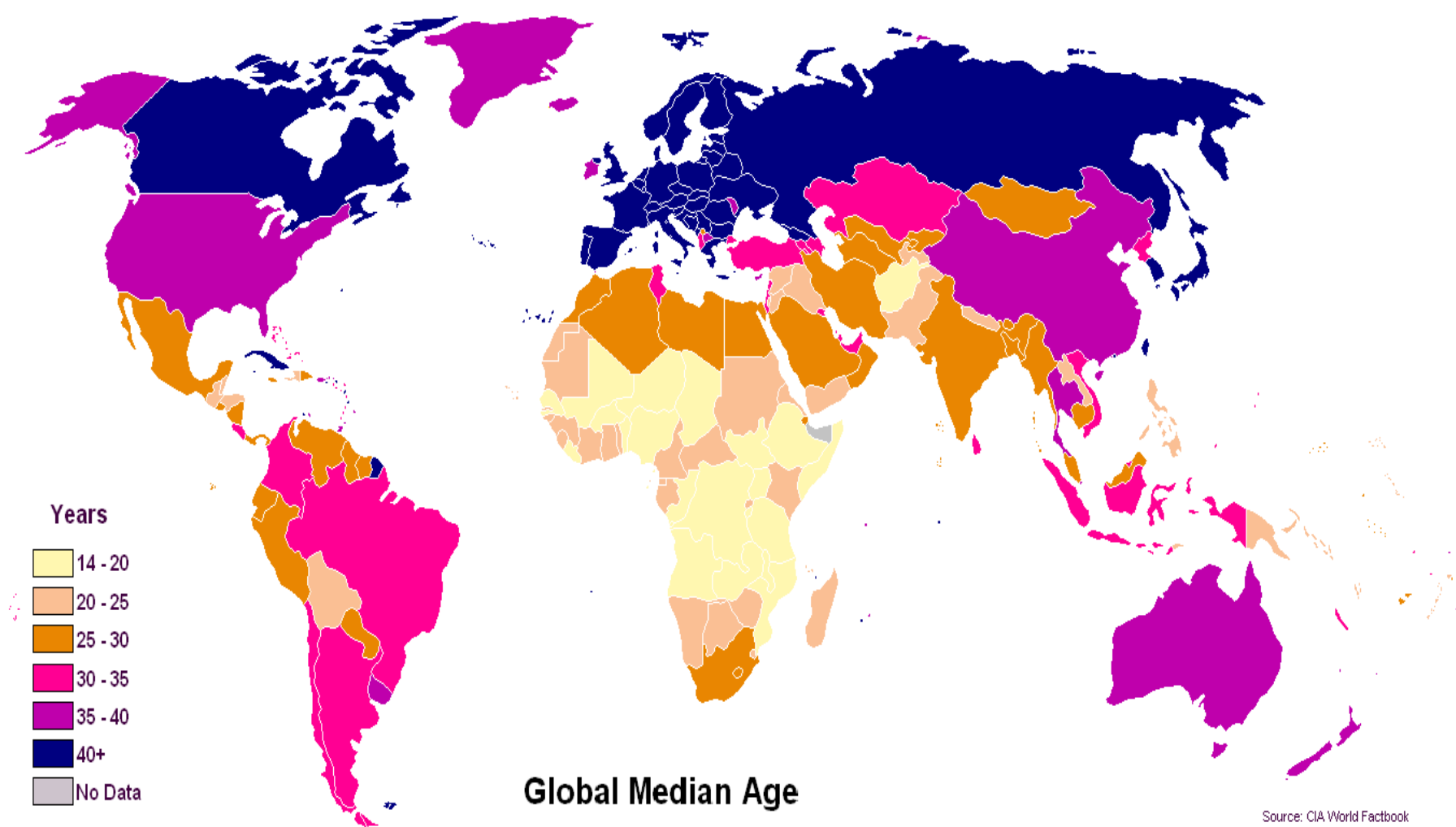
Friday, April 10, 2015, at the Rutgers College Avenue Student Center

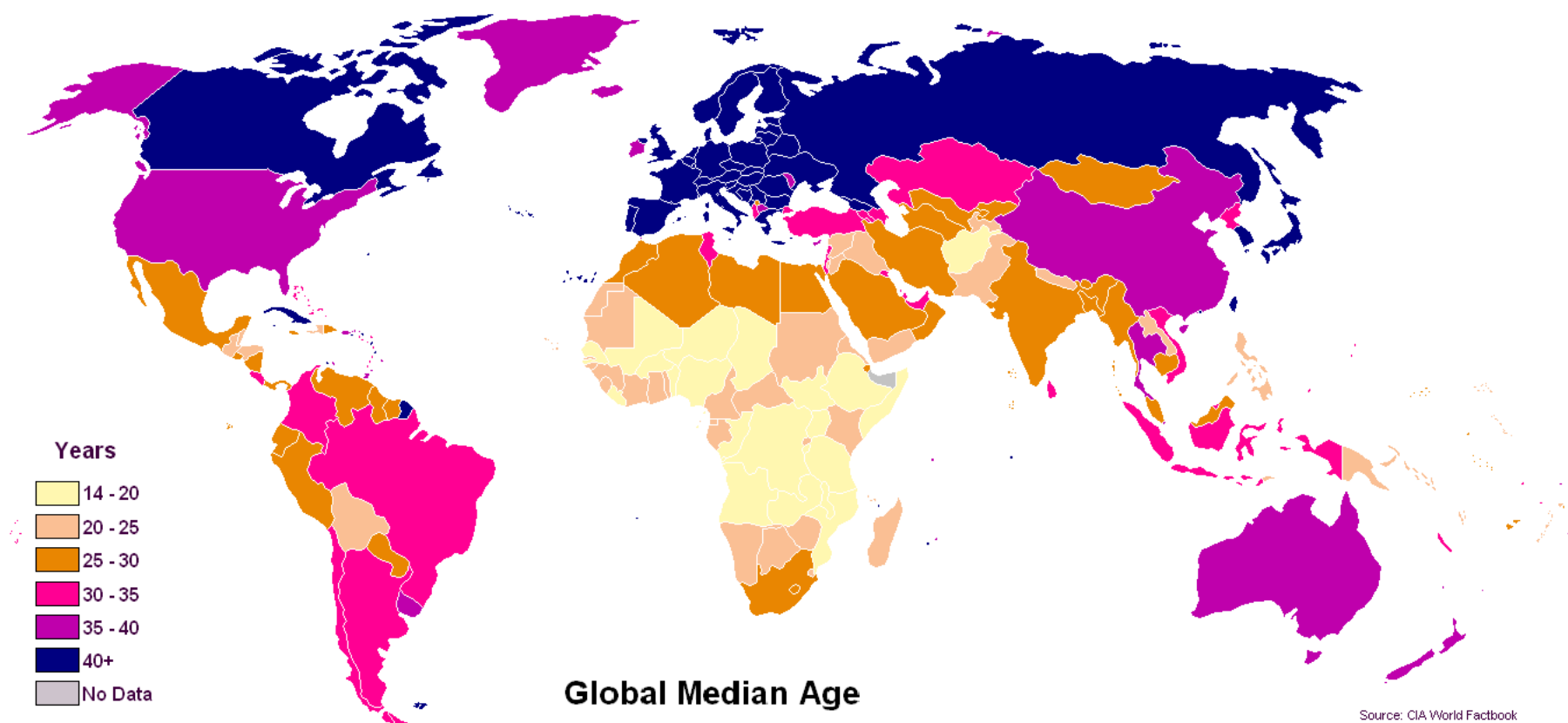


2.2 Billion Children

30.5% of the Global Population







Children under 14:

- Germany = 13%
- Japan = 13%
- United States = 19.5%

Children under 14:

- Niger = 50.09%
- Chad = 48.4%
- Uganda = 48.39%
- Angola = 47.5%
- Mali = 47.4%
- Afghanistan = 46%





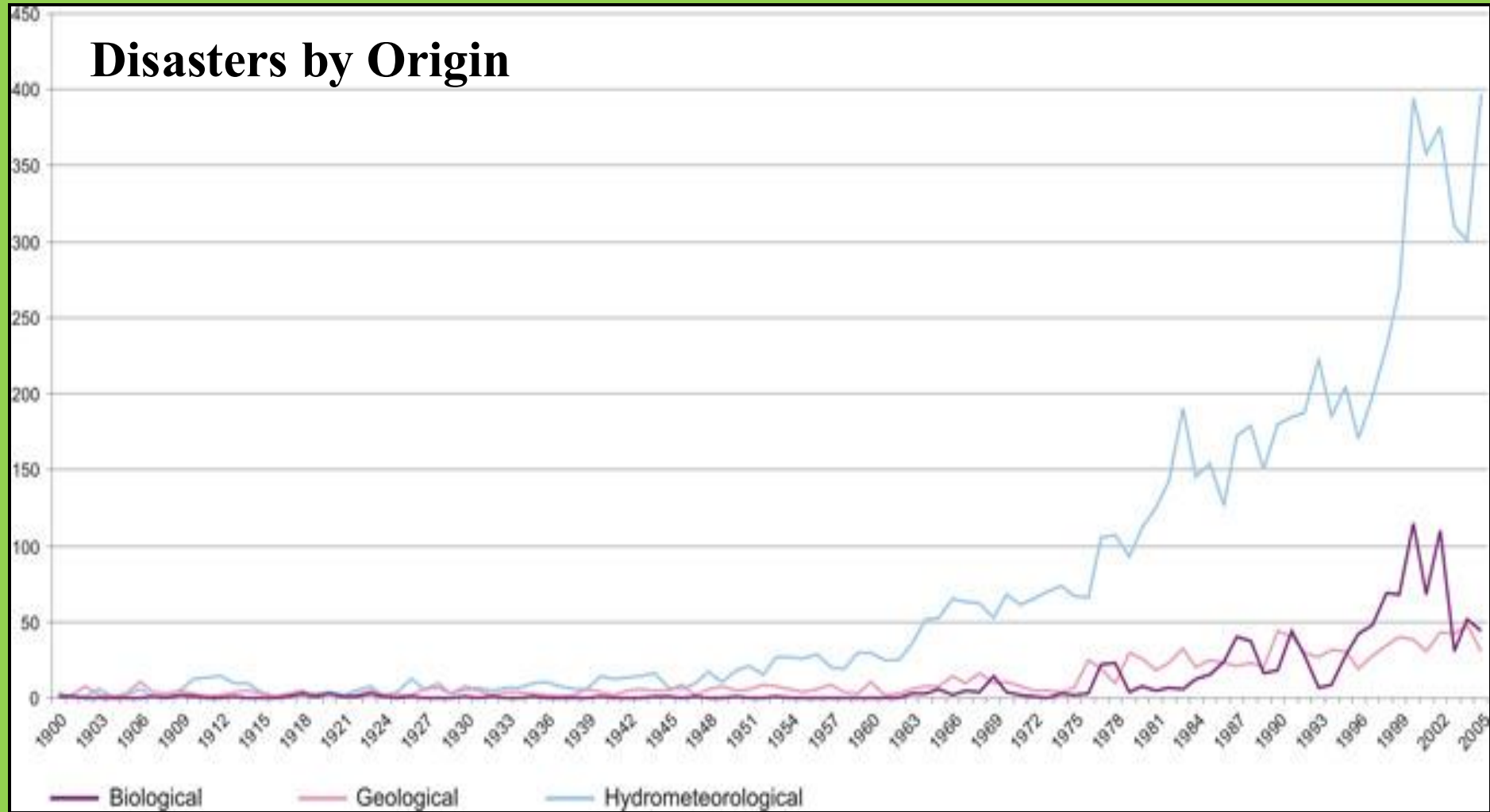






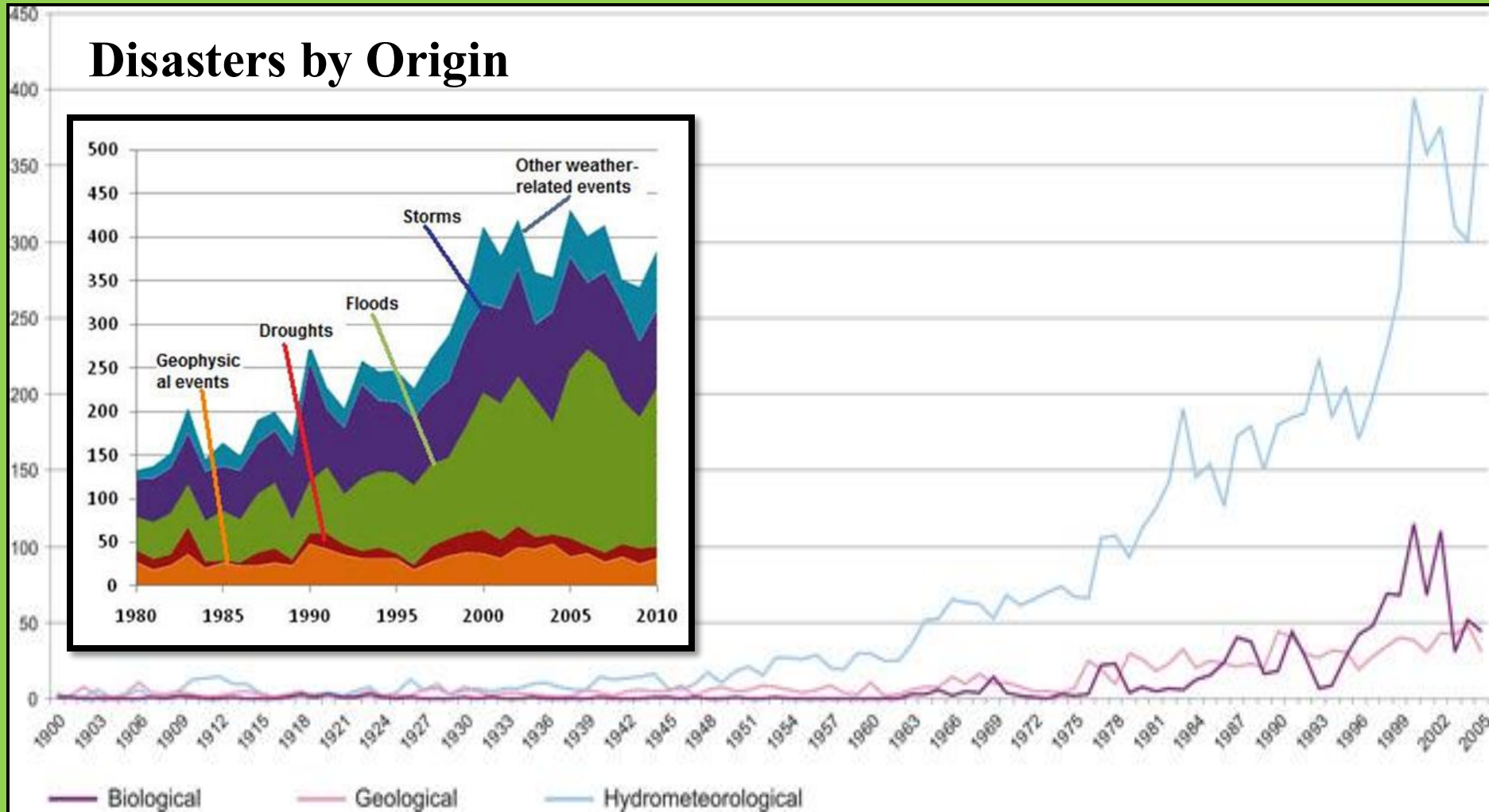
Global Disaster Trends

Disasters by Origin



Global Disaster Trends

Disasters by Origin



Global Disaster Trends

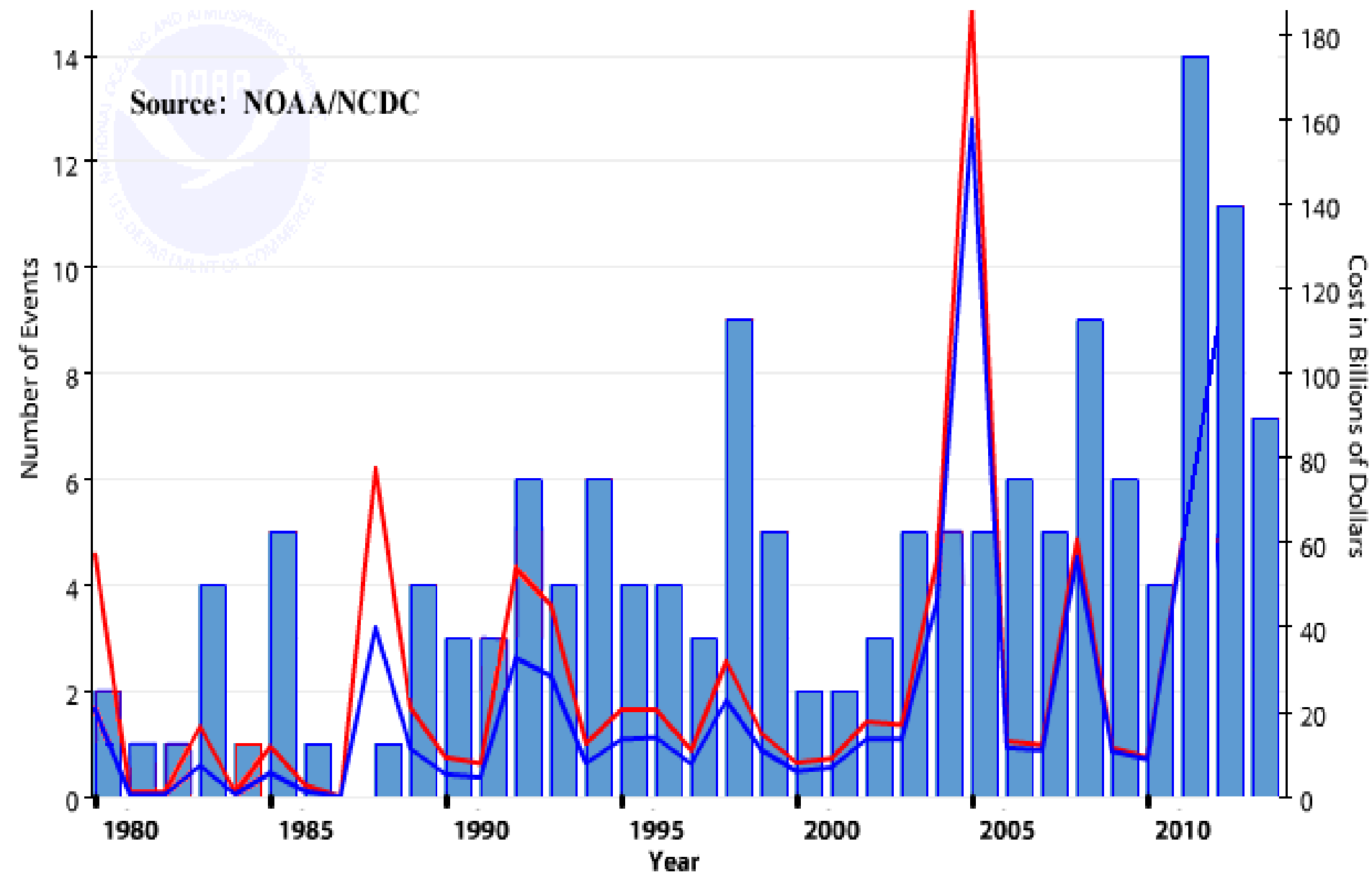
- 400-500 “natural” disasters a year.
- 270 million affected by disasters each year.
- 3 million disaster deaths between 1975-2015.
- \$80 billion per year in economic damages.



Billion-Dollar U.S. Weather Disasters, 1980 - 2013

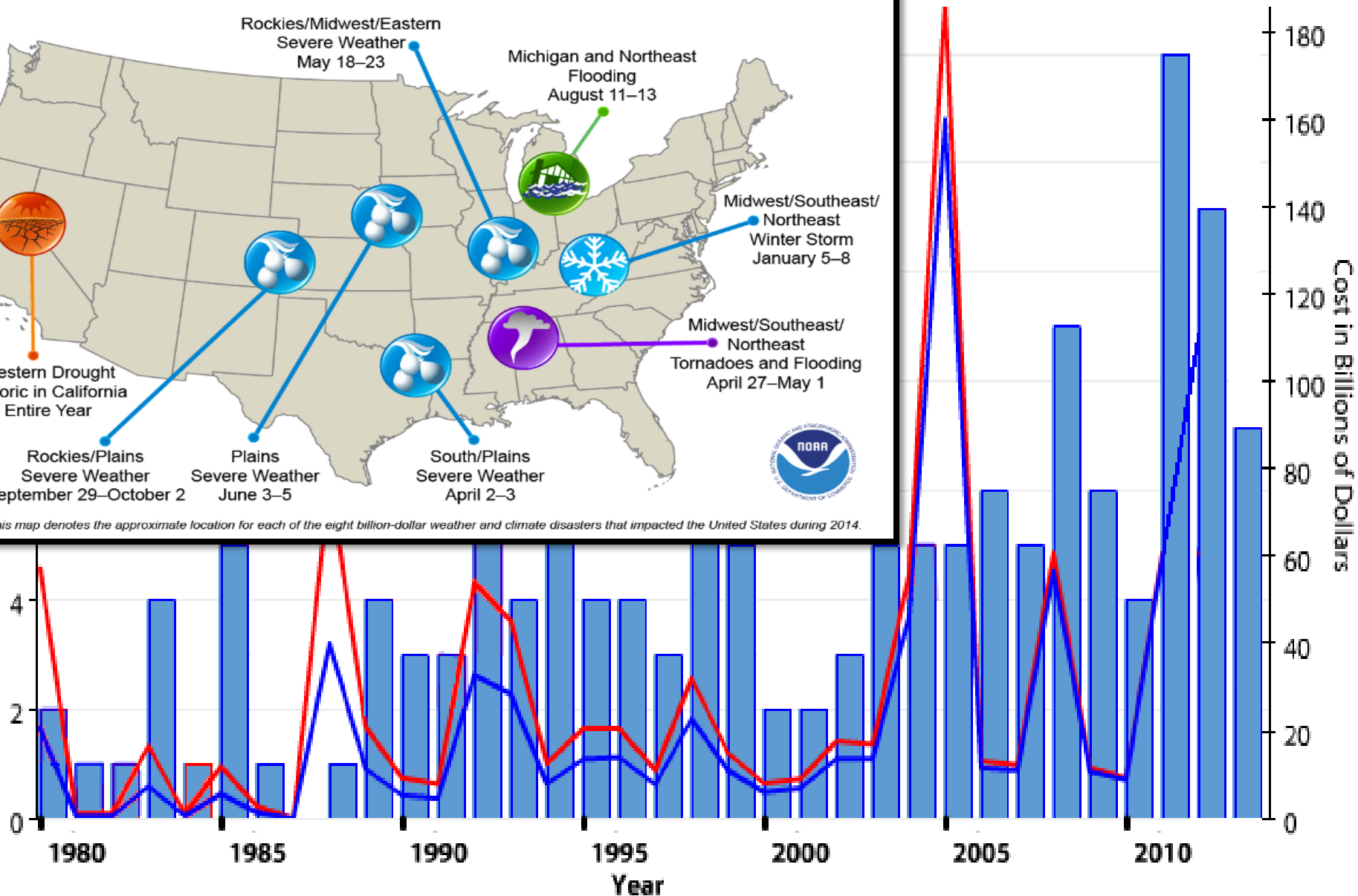
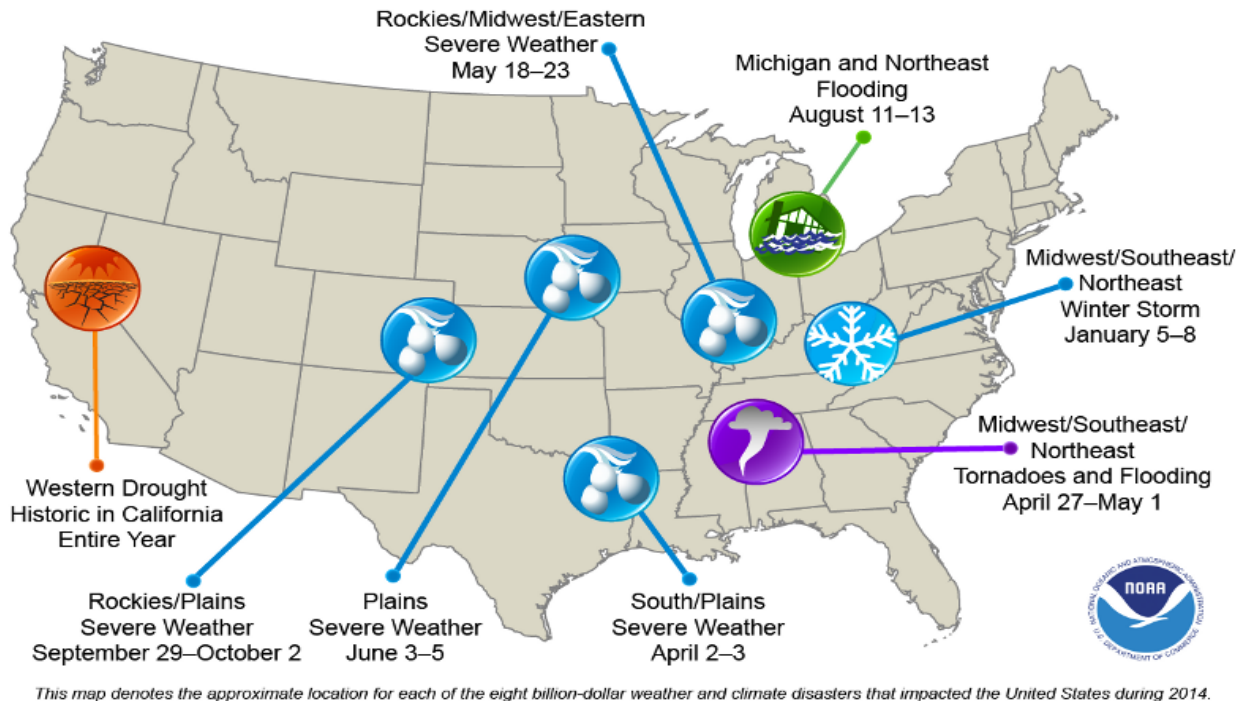
— Cost — CPI-Adjusted Cost ■ # Events (CPI-Adjusted)

Source: NOAA/NCDC



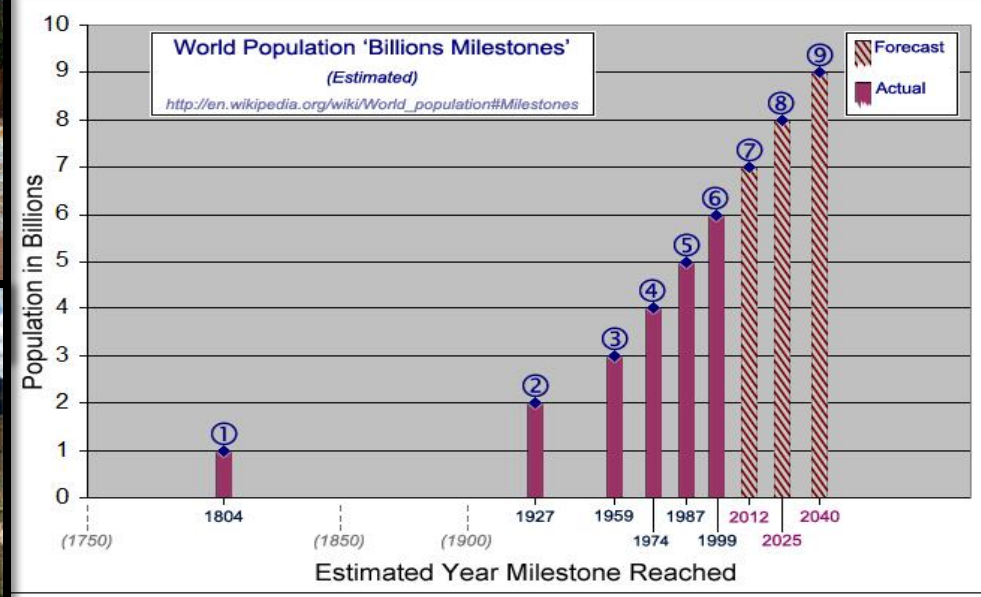
Billion-Dollar U.S. Weather Disasters, 1980 - 2013

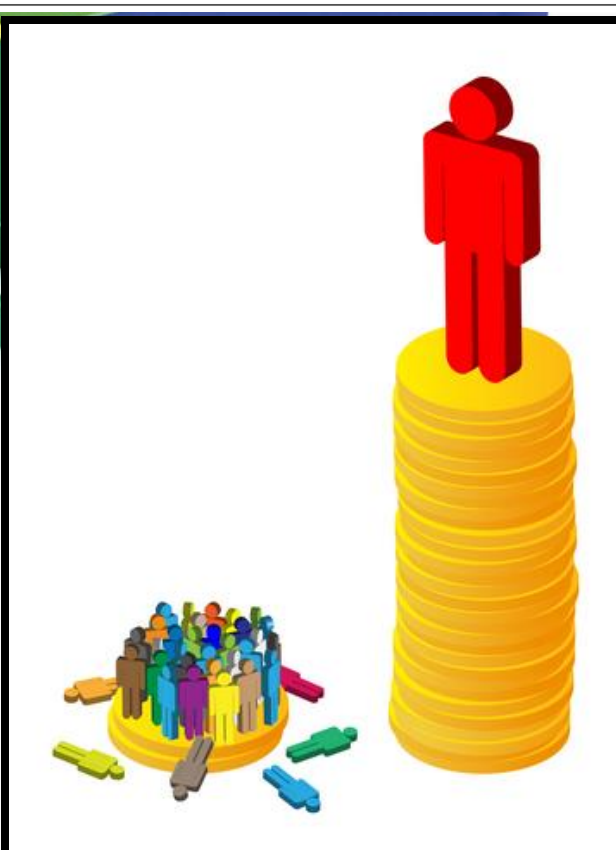
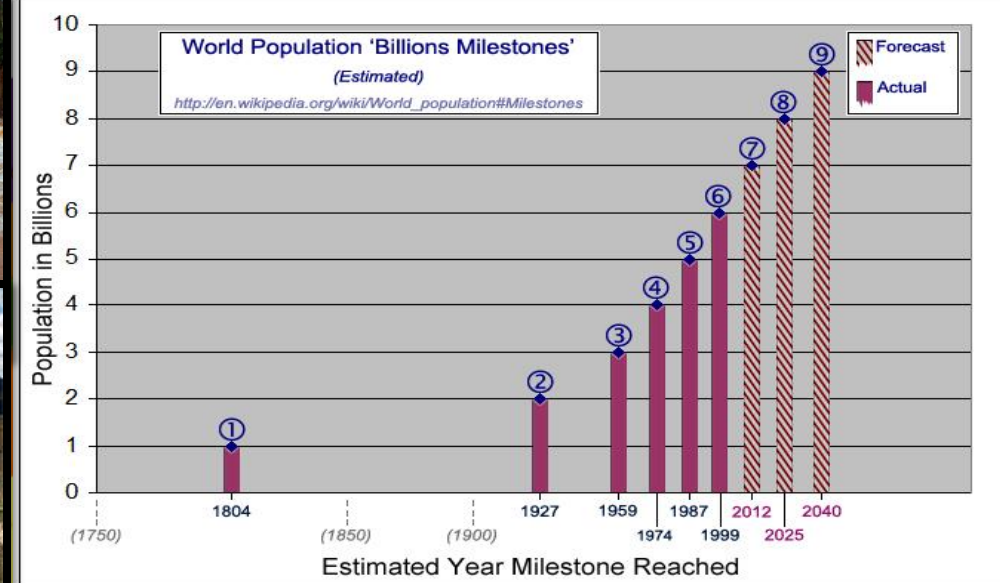
U.S. 2014 Billion-Dollar Weather and Climate Disasters

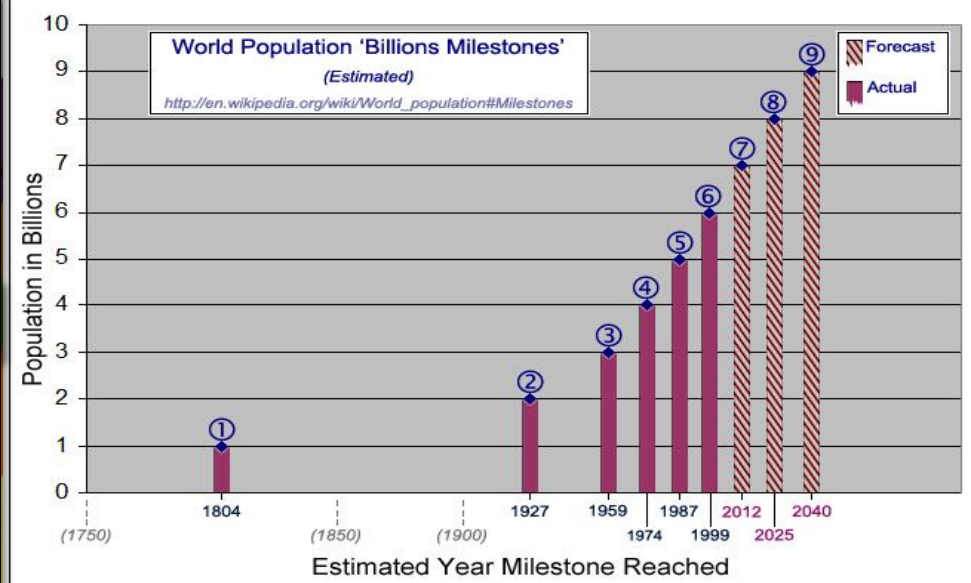
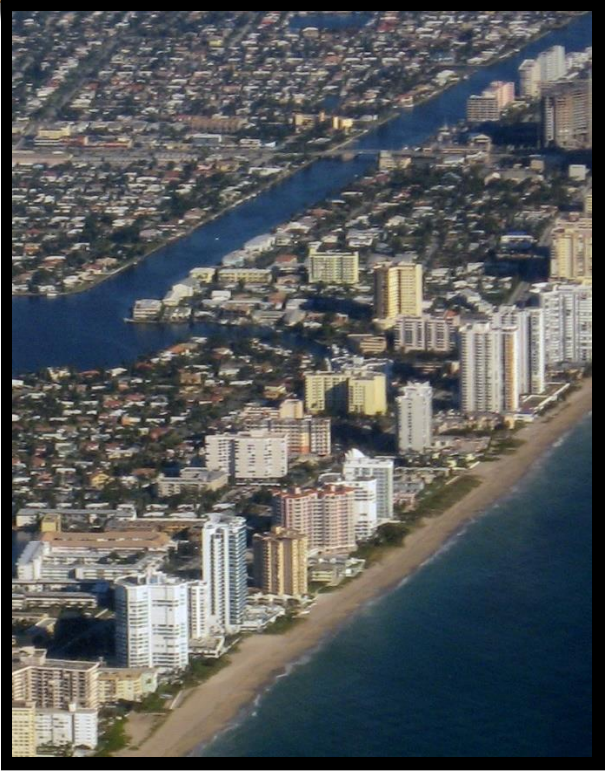


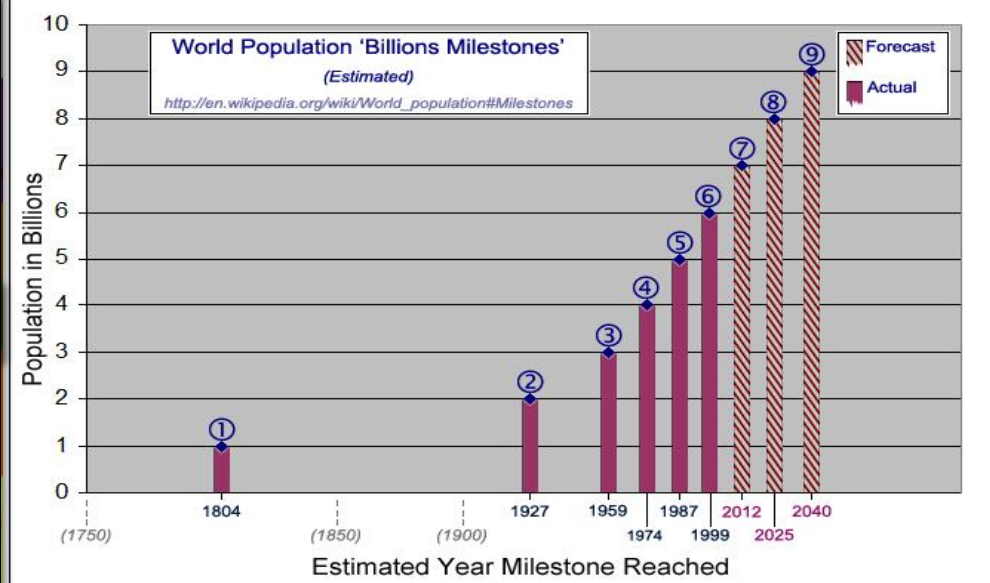


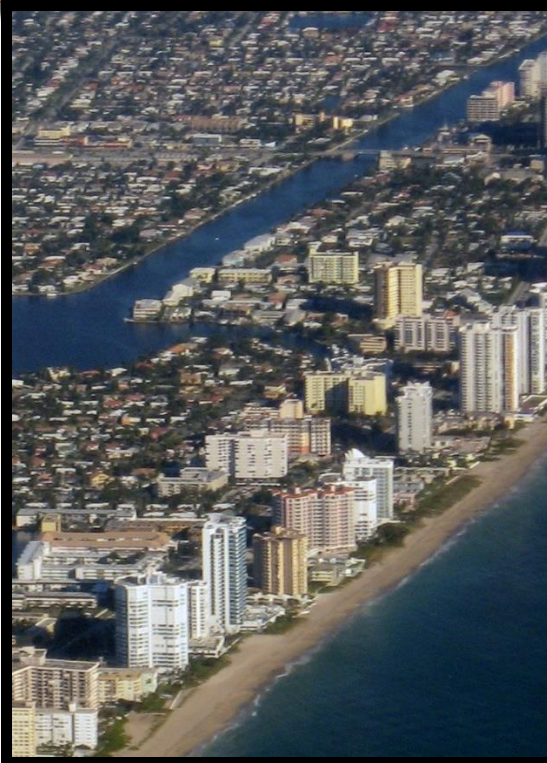
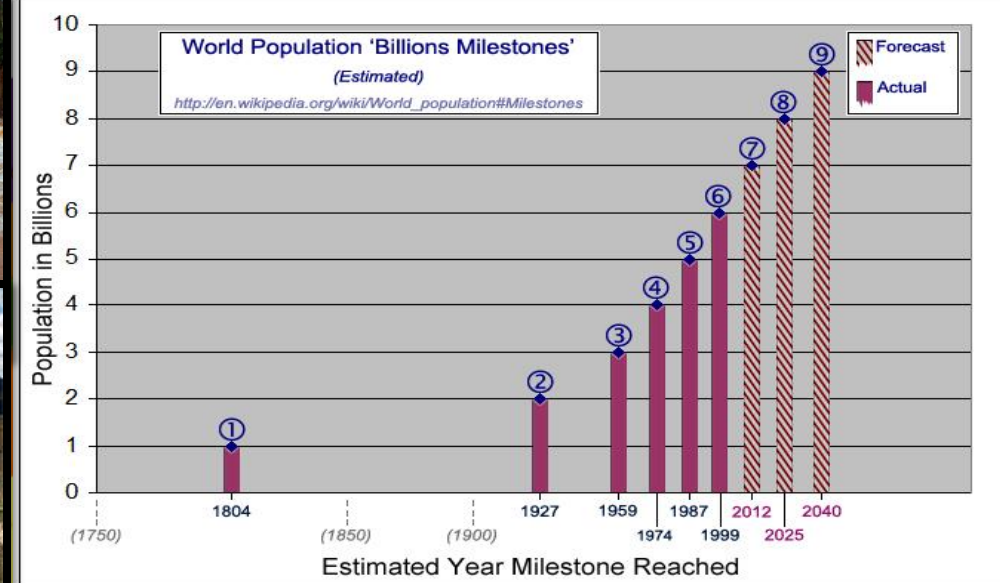


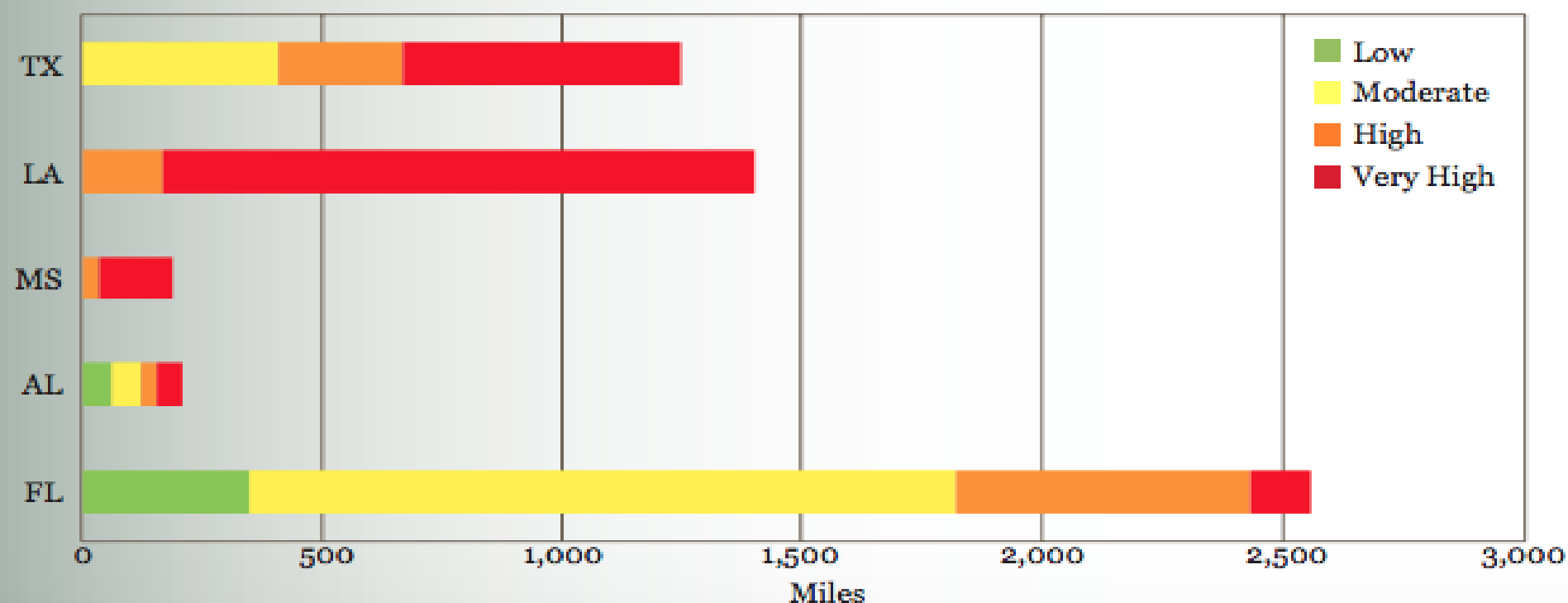
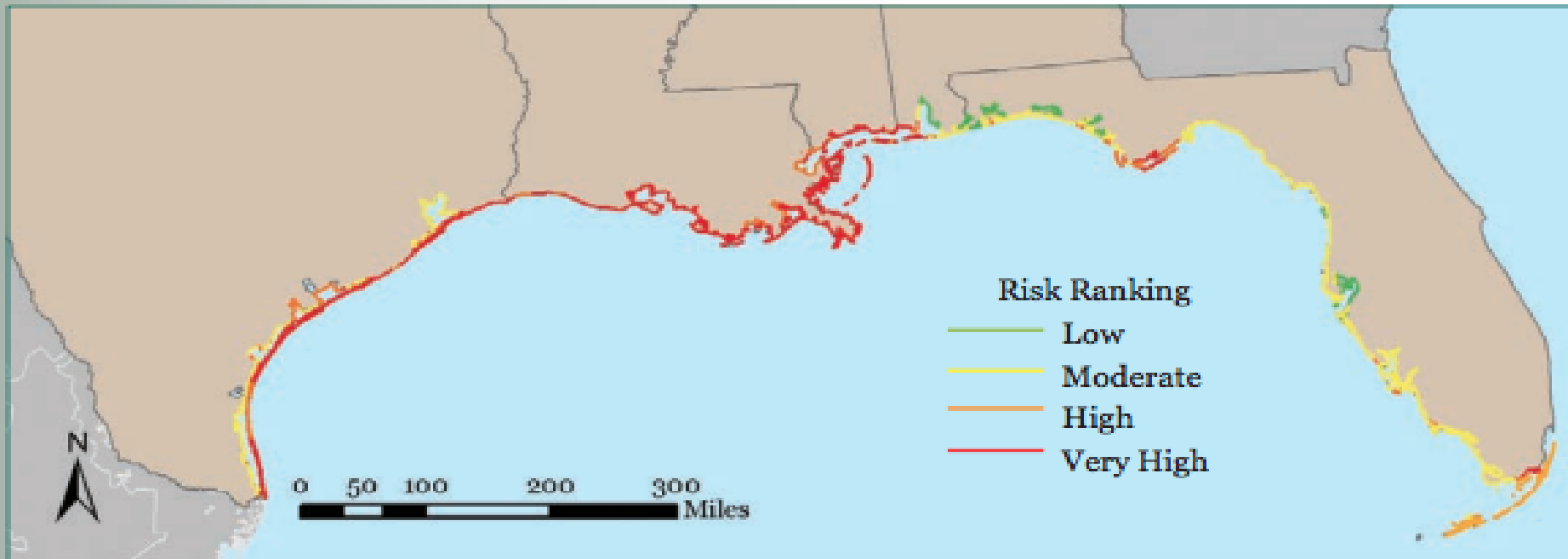




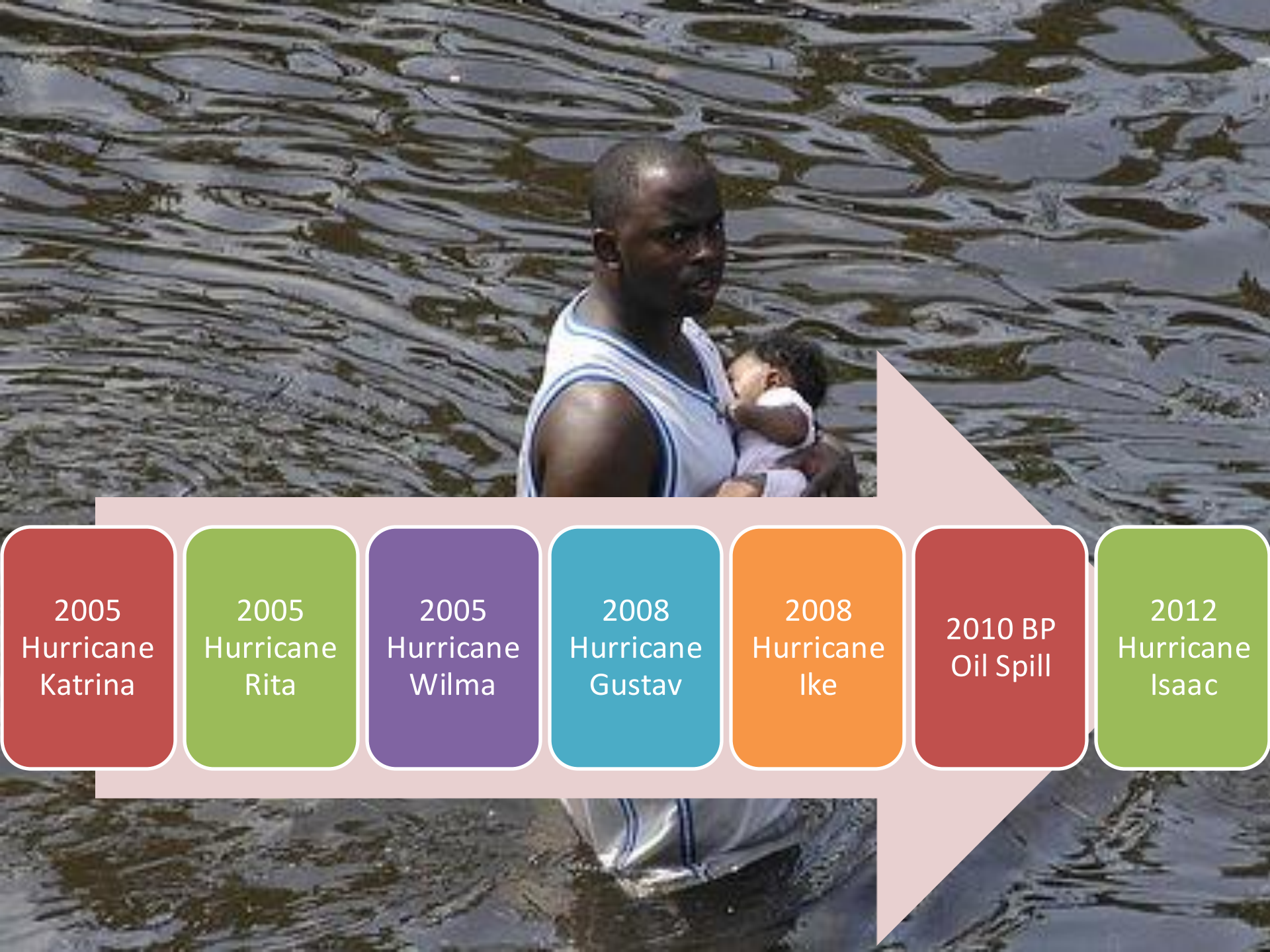












2005
Hurricane
Katrina

2005
Hurricane
Rita

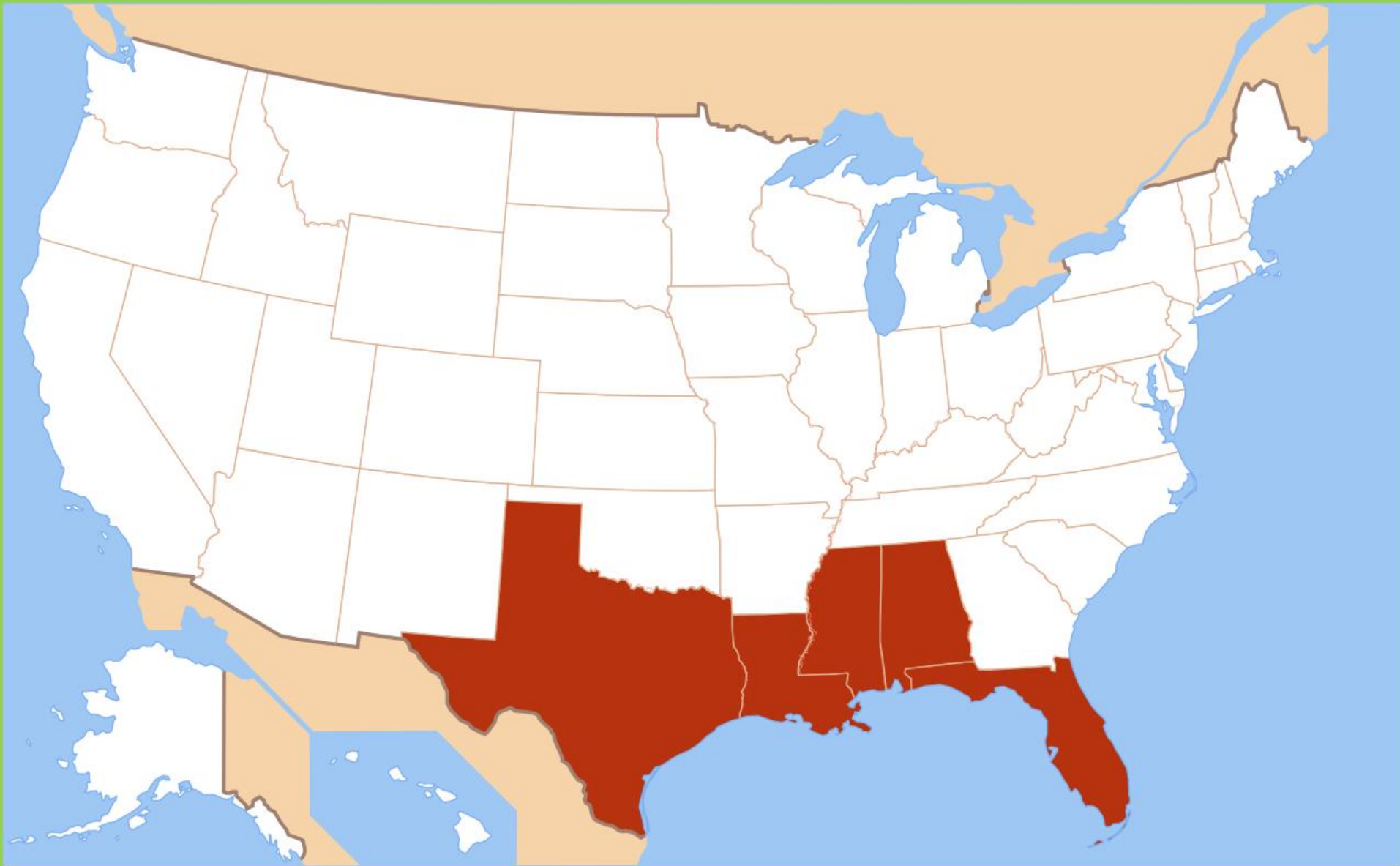
2005
Hurricane
Wilma

2008
Hurricane
Gustav

2008
Hurricane
Ike

2010 BP
Oil Spill

2012
Hurricane
Isaac



Children under the age of 18 in the U.S. Gulf Coast have experienced an
average of **3.2** disasters in their lifetimes

Children, Youth, and Disasters

- Disasters may exert enduring impacts on children and youth



Children, Youth, and Disasters

- Disasters may exert enduring impacts on children and youth
- Children's health and well-being is contingent upon functioning support systems in their lives



Children, Youth, and Disasters

- Disasters may exert enduring impacts on children and youth
- Children's health and well-being is contingent upon functioning support systems in their lives
- Children and youth often want to be actively engaged in their own and other's recovery



What do children in a changing climate need?



What do children in a changing climate need?

Skills
Hope
Opportunities
Recovery
Engagement
line





**National Center for
Disaster Preparedness**
EARTH INSTITUTE | COLUMBIA UNIVERSITY



 **CDRA**
Center for Disaster and Risk Analysis
Colorado State University

What

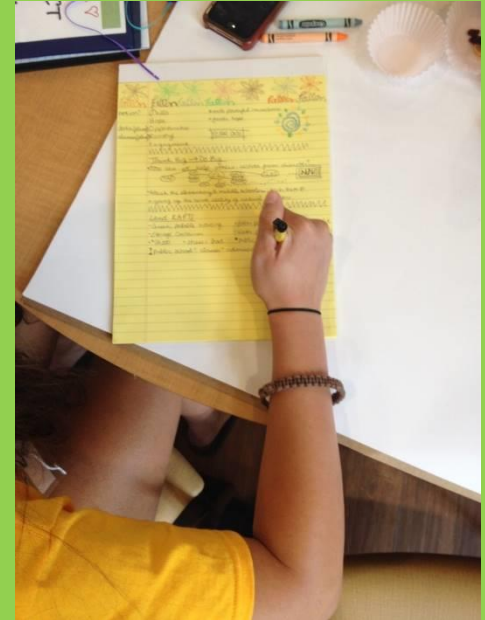


shoreline

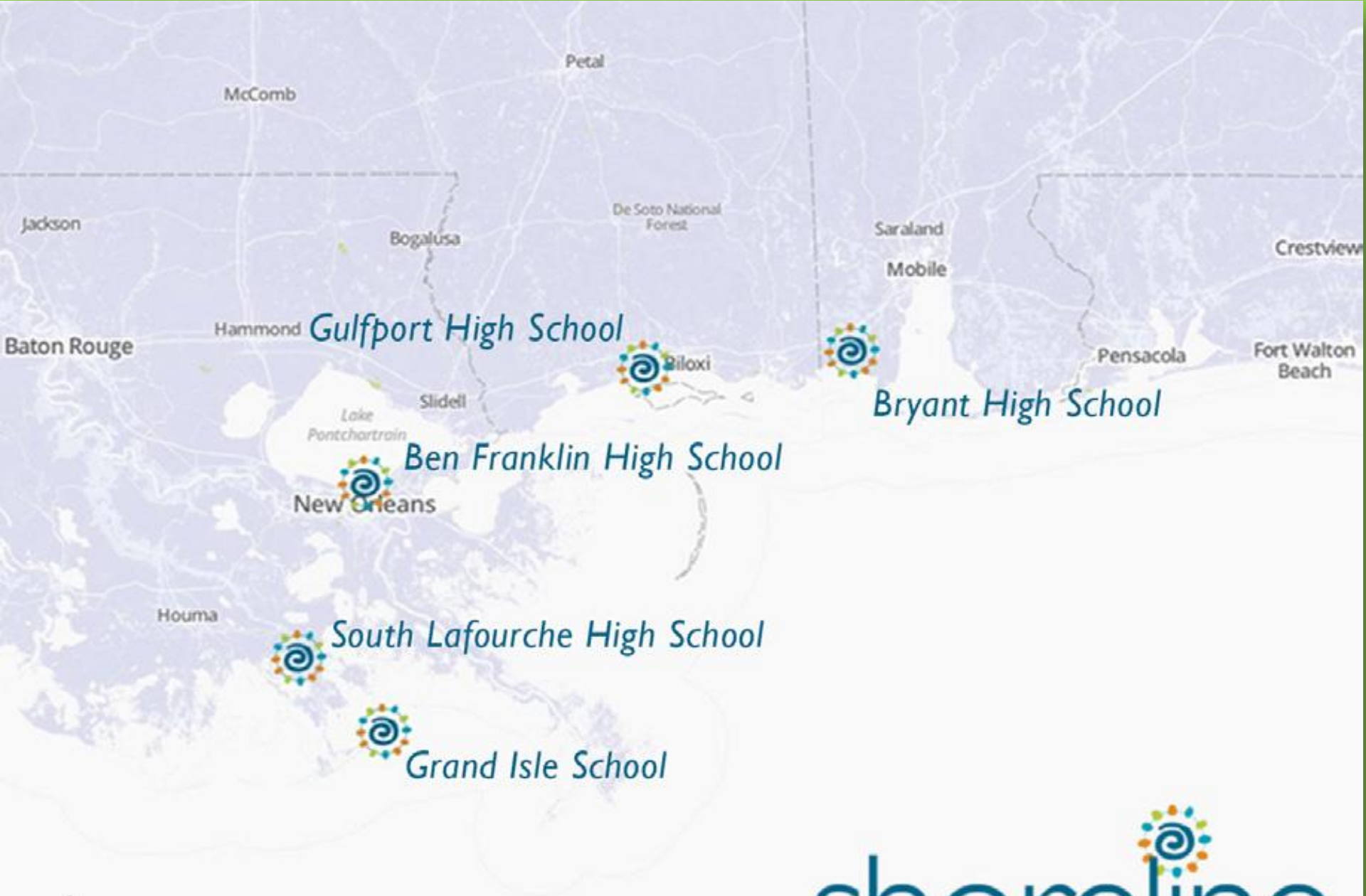
youth helping **youth** recover from disaster



Project-Based Learning



Where



How

Principal Meetings



Identify Teacher-Sponsors



Recruit the Students!



Who are the
SHOREliners?



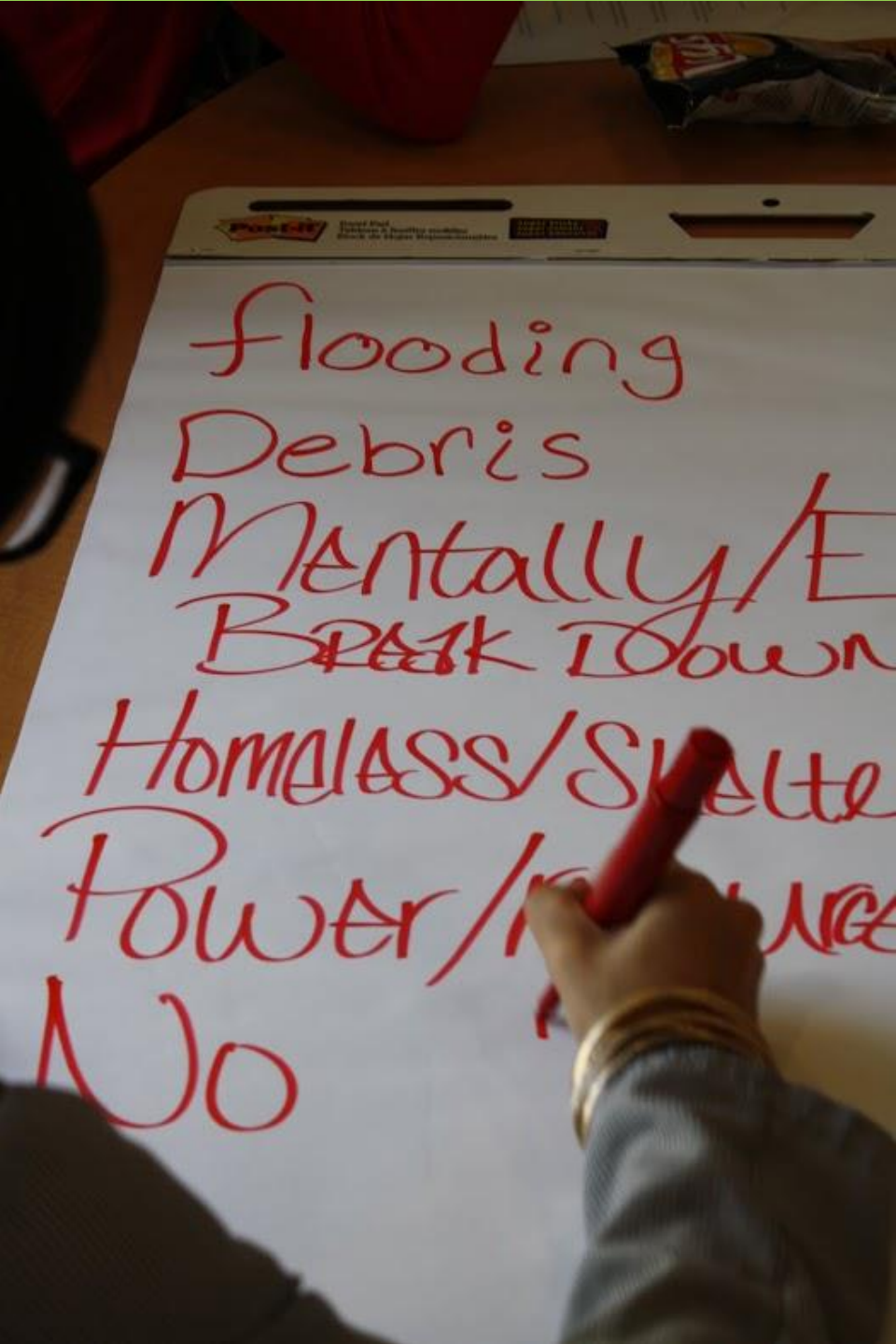




Key Milestones









Curriculum









Capstone Summit





McComb

Jackson

GULFPORT HIGH SCHOOL

Saraland

Mobile

ALMA BRYANT HIGH SCHOOL

Crestview

Baton Rouge

Hammond

Gulfport High School



Biloxi



Bryant High School

Pensacola

Fort Walton Beach



BENJAMIN FRANKLIN HIGH SCHOOL

Lake Pontchartrain

Slidell



Ben Franklin High School

New Orleans



SOUTH LAFOURCHE HIGH SCHOOL



South Lafourche High School



Grand Isle School



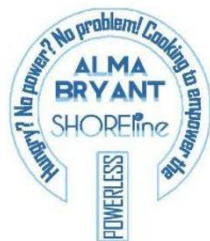
GRAND ISLE SCHOOL



shoreline

youth helping youth recover from disaster





APRIL 25, 2014

HUNGRY? NO POWER? NO PROBLEM!

Cooking to Empower the Powerless.

Brought to you by the Bryant Chapter of SHOREline

The power is out. You're hungry. What are you going to do? Sit there and eat junk food? NO! With our "Hungry? No Power? No Problem!" project, you will get to learn to cook without power! With us, you will have the whole day to learn about disaster preparedness, participate in many fun activities as well as learn how to cook without power. Towards the end of the day, **12 teams** will compete against each other and will be judged for the best dish (entrée) which the teams will be cooking without power (yes it's possible!) The best part, the **4** winning teams will win a total of \$500! This event will get you out of class for the whole day and you will learn valuable skills. So what are you waiting for? Get out there and experience this never-before done activity! The power is out. You're hungry. That's okay! No power? No problem!

LEARN TO COOK WITHOUT POWER!

PARTICIPATE IN THE "HUNGRY? NO POWER? NO PROBLEM!" CONTEST! FOUR WINNING TEAMS OF THE CONTEST GETS A TOTAL OF \$500!

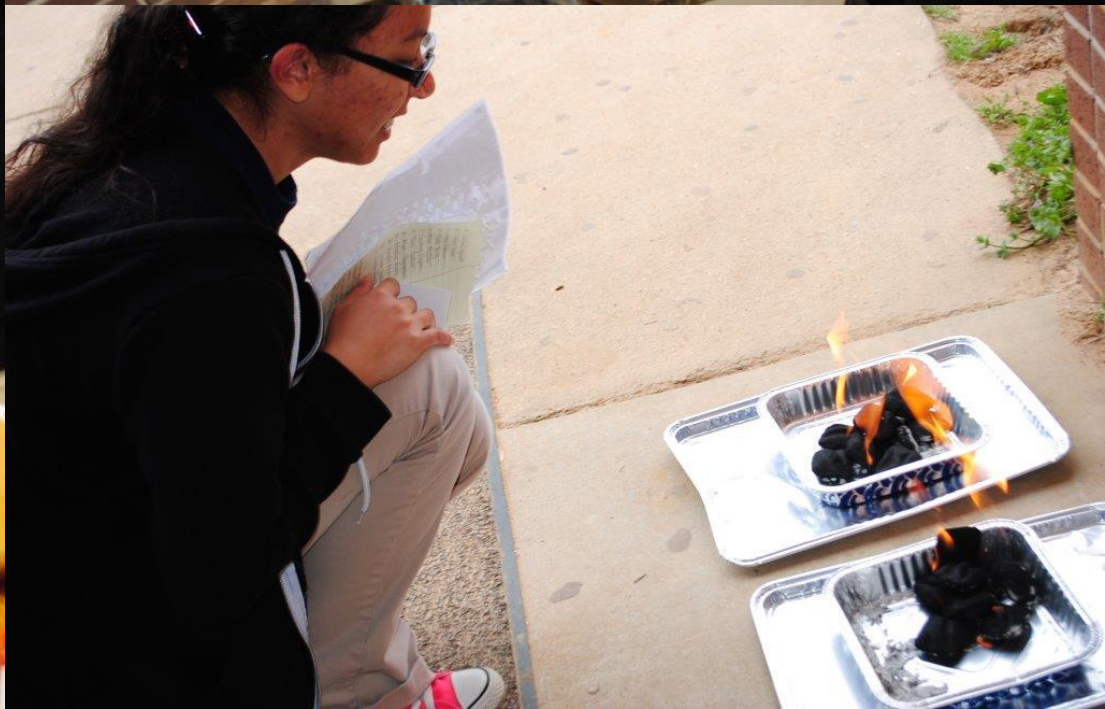
PARTICIPANTS GET A FREE T-SHIRT! YOU CAN'T SAY NO TO FREEBIES!

JUNIORS & SENIORS ONLY!

APPLICATION ON THE BACK OF THIS FLYER!

SEE SHORELINERS OR OUR FACILITATORS FOR MORE INFO!

Mrs. Harris (Room A14)
Mrs. Summey (Room B14)



Thank You...

Lori Peek

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<http://disaster.colostate.edu>



