

News Applications at ProPublica

Al Shaw

al.shaw@propublica.org

@A_L

*Aplicaciones de Noticias en
ProPublica*

ProPublica

Born in 2008 2 Pulitzer Prizes

Nació en 2008. 2 Premios Pulitzer.

The screenshot shows the ProPublica website interface. At the top, the browser address bar displays 'www.propublica.org'. Below the address bar is a navigation menu with links for 'Don't Miss: Fracking | Dollars for Docs | Surveillance | Patient Safety | Prescriber Checkup | Debt Inc. | 990s | Assisted Living' and a red 'DONATE' button. The main header features the ProPublica logo (a magnifying glass over the text 'PRO PUBLICA') and the tagline 'Journalism in the Public Interest'. To the right of the logo is a subscription form with an envelope icon, the text 'Receive our top stories daily', an 'Email address' input field, and a blue 'SUBSCRIBE' button. Below the header is a secondary navigation bar with links for 'Home', 'Our Investigations', 'Tools & Data', 'MuckReads', 'Get Involved', and 'About Us', along with social media icons for Facebook and Twitter. A search bar labeled 'Search ProPublica' is also present. The main content area is partially visible, showing a section for 'Surveillance' with a 'full coverage »' link and a 'MAJOR PROJECTS' section with a 'see all »' link.

Tools & Data

Instrumentos y datos

The image shows a screenshot of the ProPublica website. At the top, there is a navigation bar with various categories: "Don't Miss: Fracking | Dollars for Docs | Surveillance | Patient Safety | Prescriber Checkup | Debt Inc. | 990s | Assisted Living" and a red "DONATE" button. Below this is a dark blue header with the ProPublica logo (a magnifying glass over the text "PRO PUBLICA") and the tagline "Journalism in the Public Interest". A pink arrow points from the text "Tools & Data" in the main title to the "Tools & Data" menu item in the navigation bar. To the right of the logo is a subscription form with the text "Receive our top stories daily", an "Email address" input field, and a "SUBSCRIBE" button. Below the header is a secondary navigation bar with links: "Home", "Our Investigations", "Tools & Data", "MuckReads", "Get Involved", "About Us", and social media icons for Facebook and Twitter. A search bar labeled "Search ProPublica" is also present. The main content area features a "Surveillance" section with a "full coverage »" link and a featured article titled "Government Standards Agency 'Strongly' Suggests Dropping its Own Encryption". To the right is a "MAJOR PROJECTS" section with a "see all »" link and a featured project titled "The Prescribers Inside the Government's Drug Data".

Data

Stories

Graphics

News Apps

Datos

Historias

Gráficos

Aplicaciones de Noticias

Get data

Clean data

Analyze data

Present data (news app!)

Obtener datos

Limpiar datos

Analizar datos

Presentar datos (aplicación de noticias)

News App

The Opportunity Gap

Do states provide equal
access to education?

<http://projects.propublica.org/schools>

La Brecha de Oportunidades

*¿Los estados proporcionan un acceso igualitario a
la educación?*

US Department of Education

60,000+ schools

6,000+ districts

districts self-report data

Departamento de Educación EEUU

60,000+ escuelas

6,000+ distritos

distritos autoinforme los datos

Look for “preposterousness”

Buscar “ridiculez”

Counts & Totals

Limits of Excel & MySQL

Absurd max/mins

Blanks vs. nulls

Misspellings

Data types (ask for a record layout)

Bad geocoding, duplicate city names

Check against reports & hard copy

Call, don't assume

Do random spot checks

Cuentas y totales

Límites de Excel/MySQL

Maximos/minimos absurdos

Blancos y nullos

Error de ortografía

Tipos de datos

Geocodificación mal

Comprobar contra informes

Llamar, no asumir

Verificar azar

Data Bulletproofing: Jen LaFleur

<http://j.mp/data-bulletproofing>

Datos “a prueba de balas”

Schools Methodology

<http://j.mp/schools-methodology>

Metodología - Datos de escuelas

News App

Telling a story
with software
instead of words
and pictures

*Contar una historia
con software, en lugar
de palabras y dibujos*

Don't Miss: [Fracking](#) | [Dollars for Docs](#) | [Surveillance](#) | [Patient Safety](#) | [Prescriber Checkup](#) | [Debt Inc.](#) | [990s](#) | [Assis](#)

PRO PUBLICA Journalism in the Public Interest Receive

Home | Our Investigations | Tools & Data | MuckReads | Get Involved | About Us Facebook Twitter

The Opportunity Gap

Is Your State Providing Equal Access to Education?

By [Jennifer LaFleur](#), [Al Shaw](#), [Sharona Coutts](#) and [Jeff Larson](#), ProPublica, Updated January 24, 2013

This database includes all public schools in districts with more than 3,000 students from the 2009-2010 school year -- about three-quarters of the country. Use it to find out how well your state provides poor and wealthier schools equal access to advanced classes that researchers say are critical for college and career success. Our latest data also includes AP pass rates and sports participation | Related: [About the Data and Our Analysis](#) ».

How States Compare

...at providing students these programs across all income levels... RESET

...at enrolling and passing students in Advanced Placement classes...

State	SPORTS	AP (PASSING)	AP CLASSES	GIFTED/TALENTED	ADVANCED MATH	PHYSICS	CHEMISTRY	AP PASS RATE	AP ENROLLMENT
Ala.	5	5	5	5	5	5	5	5	5
Alaska	5	5	5	5	5	5	5	N/A	N/A
Ariz.	5	5	5	5	5	5	5	5	5
Ark.	5	5	5	5	5	5	5	5	5
Calif.	5	5	5	5	5	5	5	5	5
Colo.	5	5	5	5	5	5	5	5	5
Conn.	5	5	5	5	5	5	5	5	5
D.C.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Del.	5	5	5	5	5	5	5	5	5
Fla.	5	5	5	5	5	5	5	5	5
Ga.	5	5	5	5	5	5	5	5	5
Hawaii	5	5	5	5	5	5	5	5	5
Idaho	5	5	5	5	5	5	5	5	5
Ill.	5	5	5	5	5	5	5	5	5
Ind.	5	5	5	5	5	5	5	5	5
Iowa	5	5	5	5	5	5	5	5	5
Kan.	5	5	5	5	5	5	5	5	5
Ky.	5	5	5	5	5	5	5	5	5
La.	5	5	5	5	5	5	5	5	5
Maine	5	5	5	5	5	5	5	5	5
Mass.	5	5	5	5	5	5	5	5	5
Md.	5	5	5	5	5	5	5	5	5
Mich.	5	5	5	5	5	5	5	5	5
Minn.	5	5	5	5	5	5	5	5	5

Find a School

Your Address, ZIP, or school name

For example, 1605 E. 55th St. Chicago, IL

[CONNECT TO foursquare](#) Connect schools and get stats

Latest Local Stories Based on

- Univision: [Problemas Escolares: Escuelas Reprueban](#)
- Virginian-Pilot: [In Norfolk, newest teachers](#)
- Boise State Public Radio: [Students Who Do Well In Idaho](#)
- Faribault Daily News: [Faribault Schools Offer AP opportunities](#)
- Shawnee Dispatch: [As student bodies grow, schools have trouble finding minority candidates](#)
- California Watch: [Low-income students struggle](#)
- NBC New York: [AP Opportunity Gap: Why Some Students in Fewer College-Prep Courses](#)
- StateImpact Ohio: [Why the Feds are Investing in Public Schools](#)
- C-Ville Weekly: [Feed your head](#)
- The Reporter: [Study shows area districts are below state averages](#)

ProPublica intern Sergio Hernandez covered this project.

Source: [U.S. Department of Education](#)

Far Lejos

Lede Principio

Nut Resumen



Don't Miss: [Fracking](#) | [Dollars for Docs](#) | [Surveillance](#) | [Patient Safety](#) | [Prescriber Checkup](#) | [Debt Inc.](#) | [990s](#) | [Assis](#)

PRO PUBLICA Journalism in the Public Interest

Home | Our Investigations | Tools & Data | MuckReads | Get Involved | About Us

Receive

Facebook | Twitter | Search ProPub

The Opportunity Gap

Is Your State Providing Equal Access to Education?

By [Jennifer LaFleur](#), [Al Shaw](#), [Sharona Coutts](#) and [Jeff Larson](#), ProPublica, Updated January 24, 2013

This database includes all public schools in districts with more than 3,000 students from the 2009-2010 school year -- about three-quarters of the country. Use it to find out how well your state provides poor and wealthier schools equal access to advanced classes that researchers say are critical for college and career success. Our latest data also includes AP pass rates and sports participation | Related: [About the Data and Our Analysis](#) ».

How States Compare

RESET

...at providing students these programs across all income levels... | ...at enrolling and passing students in Advanced Placement classes...

WORSE | BETTER

SPORTS
AP (PASSING)
AP CLASSES
GIFTED/TALENTED
ADVANCED MATH
PHYSICS
CHEMISTRY

AP PASS RATE
AP ENROLLMENT

State	SPORTS	AP (PASSING)	AP CLASSES	GIFTED/TALENTED	ADVANCED MATH	PHYSICS	CHEMISTRY	AP PASS RATE	AP ENROLLMENT
Ala.	4	4	4	4	4	4	4	4	4
Alaska	4	4	4	4	4	4	4	4	4
Ariz.	4	4	4	4	4	4	4	4	4
Ark.	4	4	4	4	4	4	4	4	4
Calif.	4	4	4	4	4	4	4	4	4
Colo.	4	4	4	4	4	4	4	4	4
Conn.	4	4	4	4	4	4	4	4	4
D.C.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Del.	4	4	4	4	4	4	4	4	4
Fla.	4	4	4	4	4	4	4	4	4
Ga.	4	4	4	4	4	4	4	4	4
Hawaii	4	4	4	4	4	4	4	4	4
Idaho	4	4	4	4	4	4	4	4	4
Ill.	4	4	4	4	4	4	4	4	4
Ind.	4	4	4	4	4	4	4	4	4
Iowa	4	4	4	4	4	4	4	4	4
Kan.	4	4	4	4	4	4	4	4	4
Ky.	4	4	4	4	4	4	4	4	4
La.	4	4	4	4	4	4	4	4	4
Maine	4	4	4	4	4	4	4	4	4
Mass.	4	4	4	4	4	4	4	4	4
Md.	4	4	4	4	4	4	4	4	4
Mich.	4	4	4	4	4	4	4	4	4
Minn.	4	4	4	4	4	4	4	4	4

Find a School

Your Address, ZIP, or school name

For example, 1605 E. 55th St. Chicago, IL

[CONNECT TO foursquare](#) Connect schools and get stats

Latest Local Stories Based on

- Univision: [Problemas Escolares: Escuelas Reprueban](#)
- Virginian-Pilot: [In Norfolk, newest teachers](#)
- Boise State Public Radio: [Students Who Do Well In Idaho](#)
- Faribault Daily News: [Faribault Schools AP opportunities](#)
- Shawnee Dispatch: [As student bodies grow, have trouble finding minority candidates](#)
- California Watch: [Low-income students](#)
- NBC New York: [AP Opportunity Gap: Fewer College-Prep Courses in Fewer College-Prep Courses](#)
- StateImpact Ohio: [Why the Feds are Investing in Public Schools](#)
- C-Ville Weekly: [Feed your head](#)
- The Reporter: [Study shows area districts state averages](#)

ProPublica intern Sergio Hernandez on project.

Source: [U.S. Department of Education](#)

Receive our top stories daily
Email address SUBSCRIBE

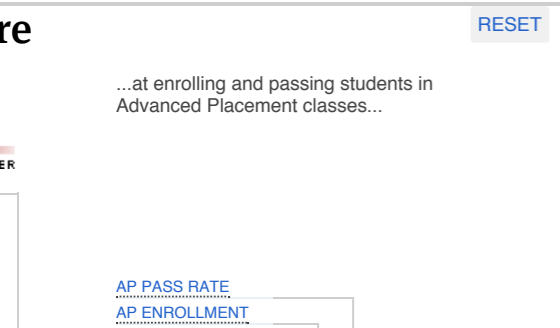
Equity Gap

Equal Access to Education?

 Tweet 128

by [Alicia Coutts](#) and [Jeff Larson](#), ProPublica, Updated January 24, 2013

Schools in districts with more than 3,000 students from the 2009-2010 school year -- about three-quarters of all such students in the country -- are in districts where your state provides poor and wealthier schools equal access to advanced classes that researchers say will help them later in life. | [Read more about AP pass rates and sports participation](#) | Related: [About the Data and Our Analysis](#) >



Find a School

Your Address, ZIP, or school name Submit

For example, 1605 E. 55th St. Chicago, IL or 77054 or Stuyvesant High

CONNECT TO foursquare Connect your Foursquare account to find schools you've checked into, and instantly get stats about schools when you check in.

Latest Local Stories Based on This Project

- Univision: [Problemas Escolares: Escuelas en Philadelphia Reprueban](#)
- Virginian-Pilot: [In Norfolk, newest teachers face tougher tasks](#)
- Boise State Public Radio: [Students Who Take Advanced Courses Do Well In Idaho](#)
- Faribault Daily News: [Faribault School District needs to improve AP opportunities](#)
- Shawnee Dispatch: [As student bodies diversify, school districts have trouble finding minority candidates](#)
- California Watch: [Low-income students score lower on AP tests](#)
- NBC New York: [AP Opportunity Gap: NY's Poor Students Enroll in Fewer College-Prep Courses](#)
- StateImpact Ohio: [Why the Feds are Investigating the Toledo Public Schools](#)
- C-Ville Weekly: [Feed your head](#)
- The Reporter: [Study shows area districts stack up well against state averages](#)

ProPublica intern Sergio Hernandez contributed research to this project.

Source: U.S. Department of Education Office for Civil Rights

Near Cerca

Find your own story



Encontrar su propia historia

News apps generate stories

Aplicaciones de noticias generan historias

x 60,000

Cambridge Rindge And Latin

459 BROADWAY, CAMBRIDGE, MASS., 02138 | Grades 9-12

Districts with 3,000 or more students

	Students	Total Teachers	Inexp. Teachers	AP Courses
This School	1,585	147	23%	13
District	5,955	485	26%	13
State	645K	46,071	12%	10

State Average District Average

Compare

You can compare this school to other schools in Mass. that are in districts with 3,000 students or more. Select one of comparisons below, or search for any school to get started.

[to nearby schools](#)

[to low and high poverty schools](#)

or to another Massachusetts school

Share

Share your observations (optional):

[Post here and to Facebook](#)

Use this hashtag to share your insights on Twitter: #myschoolyourschool

Percentage of relevant students who...

Get Free/Reduced Price Lunch: 38%

Take at Least One AP Course: 16%

AP Pass Rate: 74%

Take Advanced Math: 24%

Take Chemistry: 28%

Take Physics: 23%

Participate in

Cambridge Rindge And Latin, part of the Cambridge district, is located in Cambridge, Massachusetts. The school reports an enrollment number of 1,585 students in grades nine through 12, and it has 147 teachers on staff.

Cambridge Rindge And Latin is above the state average but below the district average in terms of the percentage of its students who qualify for free or reduced-price lunches. On average, 35 percent of students in Massachusetts qualify for free or reduced-price lunch programs, whereas 38 percent of Cambridge Rindge And Latin students do. At the district level, 44 percent of students qualify.

ProPublica's analysis found that all too often, states and schools provide poor students fewer educational programs like Advanced Placement, gifted and talented programs, and advanced math and science classes. Studies have linked participation in these programs with better outcomes later in life. Our analysis uses free and reduced-price lunch to estimate poverty at schools. We based our findings on the most comprehensive data set of access to advanced classes and special programs in U.S. public schools — known as the Civil Rights Data Set— released by the U.S. Department of Education Office for Civil Rights.

News apps generate stories

Aplicaciones de noticias generan historias

Compare Schools

[back to Cambridge Rindge And Latin](#) ↔

Districts with 3,000 or more students

Compare

You can compare this school to other schools in Mass. that are in districts with 3,000 students or more. Select one of comparisons below, or search for any school to get started.

[to nearby schools](#)

[to low and high poverty schools](#)

[or to another Massachusetts school](#)

Sort

by...

Students

% Inexp. Teachers

AP Courses Offered

% Free/Reduced Price Lunch

% AP Enrollment

AP Pass Rate

% Sports Participation

% Advanced Math Enrollment

% Gifted/Talented

Lawrence

Health & Human Services H...

70-71 NORTH PARISH ROAD
LAWRENCE, MASS.

475 **5%** **5**
Students Inexp. Teachers AP Courses

Percentage of relevant students who...

Get Free/Reduced Price Lunch

89%

Take at Least One AP Course

12%

AP Pass Rate

5%

Sports Participation

36%

Cambridge

Cambridge Rindge And Lati...

459 BROADWAY
CAMBRIDGE, MASS.

1,585 **23%** **13**
Students Inexp. Teachers AP Courses

Percentage of relevant students who...

Get Free/Reduced Price Lunch

38%

Take at Least One AP Course

16%

AP Pass Rate

74%

Sports Participation

54%

Medfield

Medfield Senior High

88R SOUTH STREET
MEDFIELD, MASS.

920 **5%** **12**
Students Inexp. Teachers AP Courses

Percentage of relevant students who...

Get Free/Reduced Price Lunch

1%

Take at Least One AP Course

34%

AP Pass Rate

87%

Sports Participation

N/A

At a Glance

Choose a type of district and a school measure to update the map.

Unified Districts

Elementary Districts

Secondary Districts

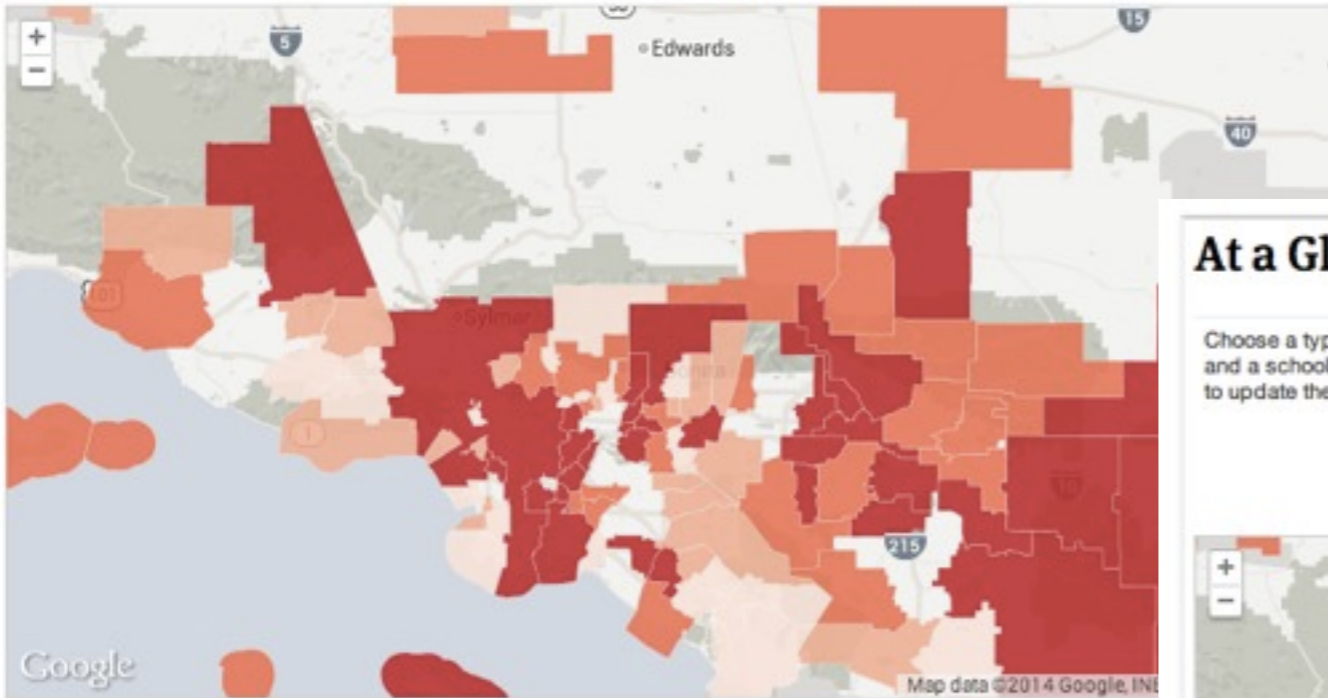
Free/Reduced Lunch

AP Enrollment

AP Pass Rate

Advanced Math Enrollment

Gifted/Talented Enrollment



At a Glance

Choose a type of district and a school measure to update the map.

Unified Districts

Elementary Districts

Secondary Districts

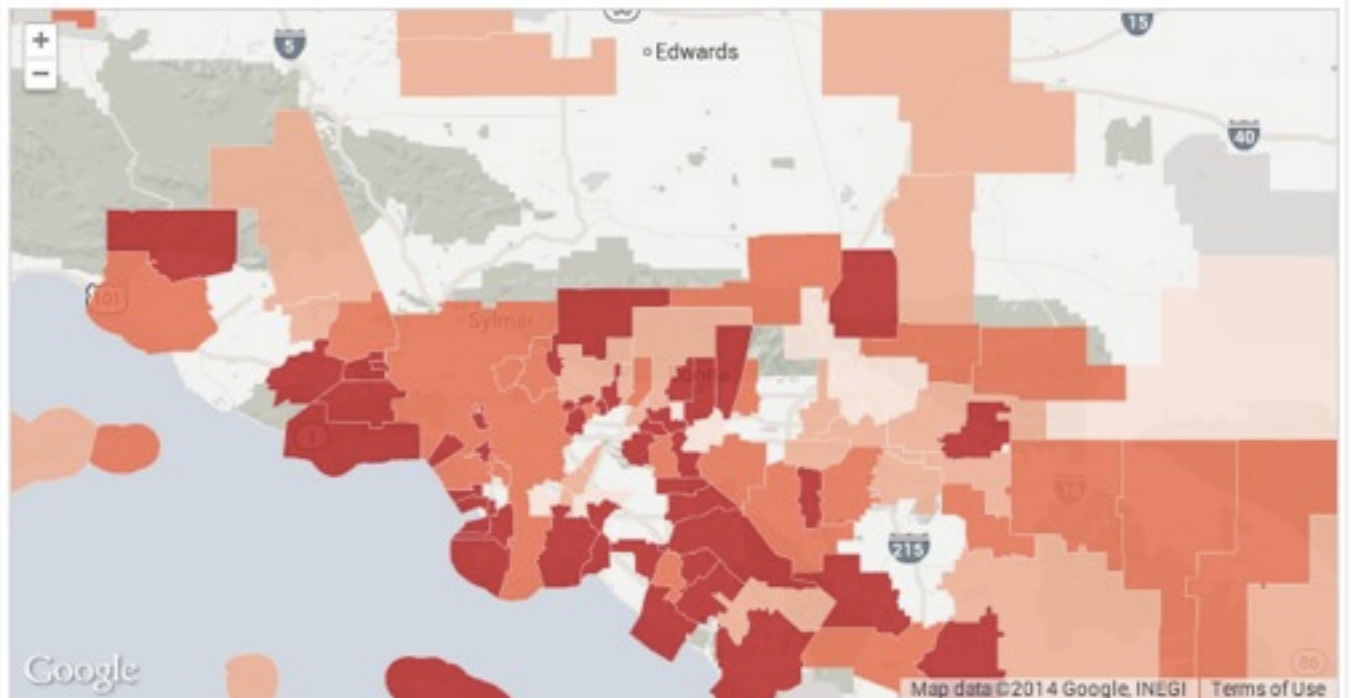
Free/Reduced Lunch

AP Enrollment

AP Pass Rate

Advanced Math Enrollment

Gifted/Talented Enrollment



*Dos visitas de
Sureste California*

**Two views of
Southern California**

News apps generate stories

Aplicaciones de noticias generan historias



School Districts in Calif.

(Download [CSV](#))

ID	Name	Students	Number of AP Courses	Total Teachers	% Gifted/Talented Enrollment	% Students Enrolled in at Least One AP Class	% Advanced Math Enrollment
617850	Hueneme Elementary	8060		355	12		
612330	Elk Grove Unified	60515		3005	6	20	15
603300	Atascadero Unified	4695		181	8	19	10
609690	Corcoran Joint Unified	3080		169	4	8	6
602430	Alvord Unified	19800		786	6	24	9
600019	Dublin Unified	5865		262	11	32	15
691078	Los Angeles County Office Of Education	1125		34	100	34	6
641400	Wasco	3235		148			

Are

1% Am Indian

12% Asian

7% Black

52% Hispanic

26% White

What's the story behind this data?

Please share any tips or local knowledge with our reporters.

Corrections

If you find an error in our data please tell us.

Reporters

See a table of all results and get raw data for this state.

News apps generate stories

Aplicaciones de noticias generan historias

Latest Local Stories Based on This Project

Univision: [Problemas Escolares: Escuelas en Philadelphia Reprueban](#)

Virginian-Pilot: [In Norfolk, newest teachers face tougher tasks](#)

Boise State Public Radio: [Students Who Take Advanced Courses Do Well In Idaho](#)

Faribault Daily News: [Faribault School District needs to improve AP opportunities](#)

Shawnee Dispatch: [As student bodies diversify, school districts have trouble finding minority candidates](#)

California Watch: [Low-income students score lower on AP tests](#)

NBC New York: [AP Opportunity Gap: NY's Poor Students Enroll in Fewer College-Prep Courses](#)

StateImpact Ohio: [Why the Feds are Investigating the Toledo Public Schools](#)

C-Ville Weekly: [Feed your head](#)

The Reporter: [Study shows area districts stack up well against state averages](#)

Data Store

Tienda de datos

<https://projects.propublica.org/data-store>

The ProPublica Data Store

PRO PUBLICA Data Store

The ProPublica Data Store

ProPublica is making available the datasets that power our data journalism. The raw data we received as the result of a FOIA request is available for free, and datasets that reflect substantial cleaning and processing by our staff are available for a one-time fee. Journalists and academic researchers can purchase premium datasets, and interested commercial users can contact us for pricing, by clicking the "Purchase" button on any dataset. We also provide a pass-through link when a data download is available on another site. [Related Story »](#)

Premium Datasets (Purchase)

Cleaned up, categorized and often created from multiple sources, these Premium datasets are unique to ProPublica and sold for a nominal fee.

FOIA Data (Free)

Because ProPublica received these datasets from a FOIA request, we're posting the original, raw datasets free for download.

External Data

ProPublica frequently uses datasets that are free and available online. So instead of downloading copies from us, we send you straight to the source.

Health Datasets	Source	JOURN (\$)	ACAD (\$)
-----------------	--------	------------	-----------

**Stories generate news apps
which generate stories**

*Historias generan aplicaciones de
noticias que generan historias*

Fine Line Between 'Super PACs' and Campaigns

By MIKE McINTIRE and MICHAEL LUO
Published: February 25, 2012 | 178 Comments

When [Mitt Romney's](#) presidential campaign needs advice on direct mail strategies for reaching voters, it looks to [TargetPoint Consulting](#). And when the independent "super PAC" supporting him needs voter research, it, too, goes to TargetPoint.

Multimedia



Graphic
66 Canal Center Plaza, Suite 555



Interactive Feature
The Republican Presidential Field

Related

[Prolonged Race Forces Romney Campaign to Recalibrate](#) (February 26, 2012)

[Santorum Vows to Wage a Long, Fierce Battle](#) (February 26, 2012)

Sharing a consultant would seem to be an embodiment of coordination between a candidate and an independent group, something prohibited under federal law. But TargetPoint is just one of a handful of interconnected firms in the same office suite in Alexandria, Va., working for either the Romney campaign or the super PAC [Restore Our Future](#).

Elsewhere in the same suite is [WWP Strateg](#) founder is married to TargetPoint's chief ex works for the Romney campaign. Across the room is the [Black Rock Group](#), whose co-founder was a Romney campaign official in 2008 — now he works for Restore Our Future and [American Crossroads](#), an independent group that spoke up in defense of Romney's candidacy in January. Finally, there is [Crossroads Media](#), a media placement firm that works for American Crossroads and other Republican

The overlapping roles and relationships of the firms in Suite 555 at 66 Canal Center Plaza offer a glimpse into the fluidity and ineffectual enforcement of rules intended to prevent candidates from coordinating the

RECOMMEND

TWITTER

HOME PAGE TODAY'S PAPER VIDEO MOST POPULAR U.S. Edition

The New York Times

Politics

Search All NYTimes.com

ashawenigma Help

WORLD U.S. N.Y. / REGION BUSINESS TECHNOLOGY SCIENCE HEALTH SPORTS OPINION ARTS STYLE TRAVEL JOBS REAL ESTATE

AUTOS



LET'S TALK ABOUT SOME RETIREMENT MONEY YOU DON'T HAVE TO WORK FOR.

Make a qualifying 401(k) rollover to a Schwab IRA and you can get a \$200-\$600 bonus in your account. Important Disclosures

GET DETAILS



Advertise on NYTimes.com

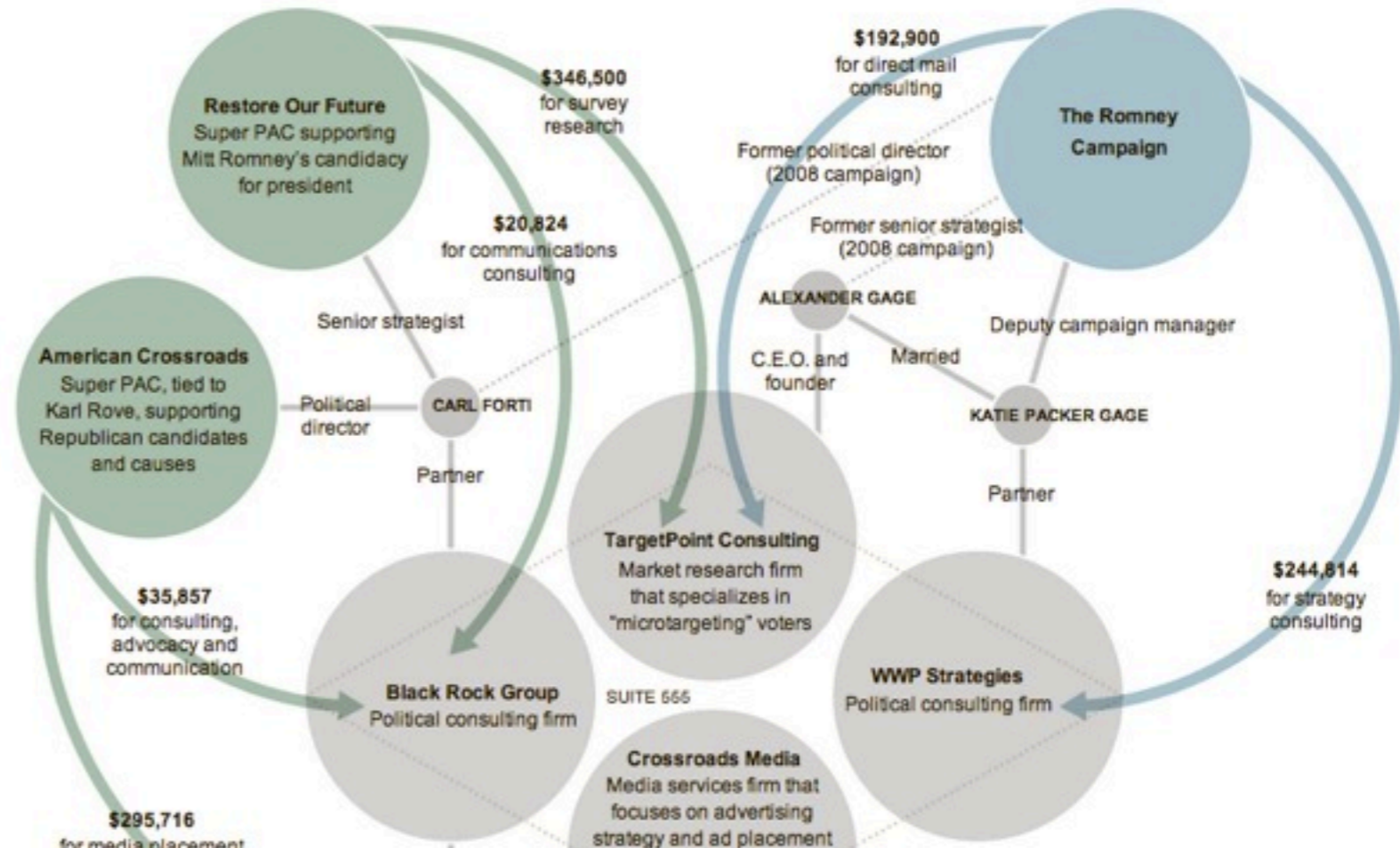
Published: February 25, 2012

RECOMMEND TWITTER LINKEDIN E-MAIL SHARE

66 Canal Center Plaza, Suite 555

In a single office suite in Alexandria, Va., firms hired by "super PACs" share the same space as consultants hired by the Romney campaign. Federal law prohibits super PACs from directly coordinating with candidates, but the groups share many ties and have paid for many similar services.

Related Article »



A Tangled Web: Who's Making Money From All This Campaign Spending?

by [Al Shaw](#), [Kim Barker](#) and [Justin Elliott](#),
ProPublica, March 21, 2:41 p.m.

[Tweet](#) 426

[Like](#) 436

[E-mail](#)

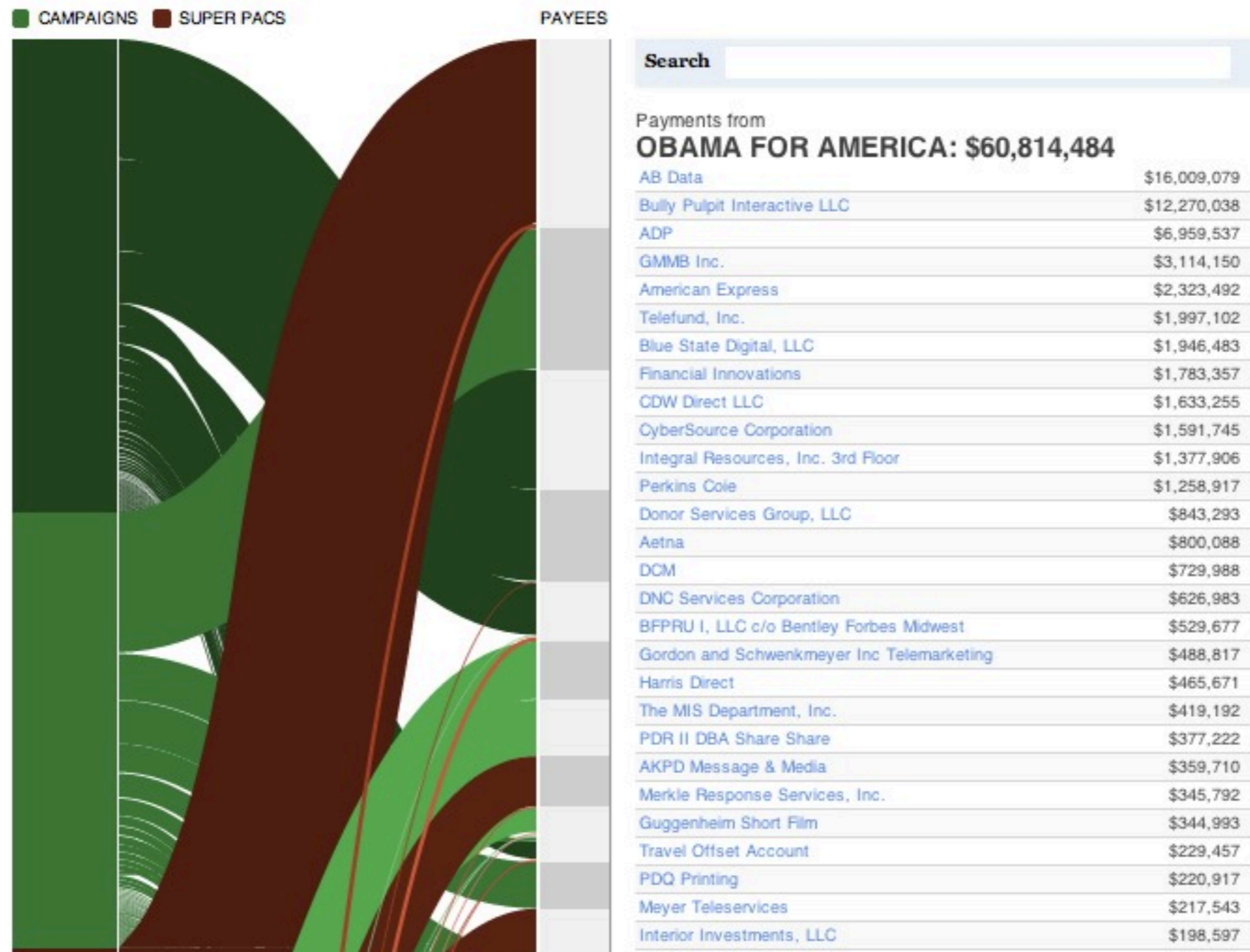
[Print](#)

Many have been detailing the vast sums being raised by the presidential candidates and the super PACs supporting them. But where are all those millions being spent? Among other things, the answers can provide hints on potential [improper coordination](#) between campaigns and super PACs. Here are the 200 biggest recipients of spending by the major campaigns and most of the major super PACs. | **Related story:** [Campaign Spending Shows Political Ties, Self-Dealing](#) »

How to use: Click on each spender on the left to see where its money flows and click on each recipient on the right to see where the money ends up.

For technical details, see our [nerd blog post](#). If you find something interesting or incorrect in this graphic, please [let us know](#).

Sources: *FEC*, *The New York Times Campaign Finance API*.





[Home](#) | [Our Investigations](#)

Campaign 2012

Campaign Ties, Self-D

by *Kim Barker and Al Shaw*
ProPublica, March 28, 2012,

April 20: This story has

For an example of the fl
finance rules, as well as
connections between ca

PACs, look no further than the digital
consulting firm [Targeted Victory](#).

Interactive Features

[How Some Nonprofit
Groups Funnel Dark
Money Into](#)

So far, the firm's
hauled in \$4.1 million
working for [Mitt
Romney's presidential
campaign](#) and

Payments to

TARGETED VICTORY: \$4,155,789

Republican digital strategic consulting firm founded in 2009 in Minnesota and based in Virginia, in a suite just down the hall from an office housing four powerhouse GOP consultants: Crossroads Media, the Black Rock Group, TargetPoint Consulting and WWP Strategies. Clients include Marco Rubio in his U.S. Senate race in Florida and the super PAC American Crossroads. Co-founder Michael Beach oversaw the national voter turnout program for the Republican National Committee in the 2008 election cycle. The initial manager on forms with Minnesota is listed as Tony Feather, a co-founder of FLS Connect and the outside-money group Progress for America, which supported George W. Bush in 2004, and the nonprofit American Issues Project, which in 2008 highlighted the relationship between Barack Obama and former Weather Underground activist Bill Ayres. This cycle, Targeted Victory has done work for both the super PAC American Crossroads and the Mitt Romney campaign.

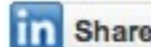
AMERICAN CROSSROADS	\$226,211
ROMNEY FOR PRESIDENT INC.	\$3,929,579

72



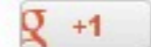
Tweet

14



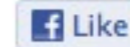
Share

9



+1

103



Like



SimpleTiles



StateFace

HUFFPOST
POLITICS

ELECTION DASHBOARD

At a Glance

Choose a type of district and a school measure to update the map.

Unified Districts

Elementary Districts

Secondary Districts

Free/Reduced Lunch

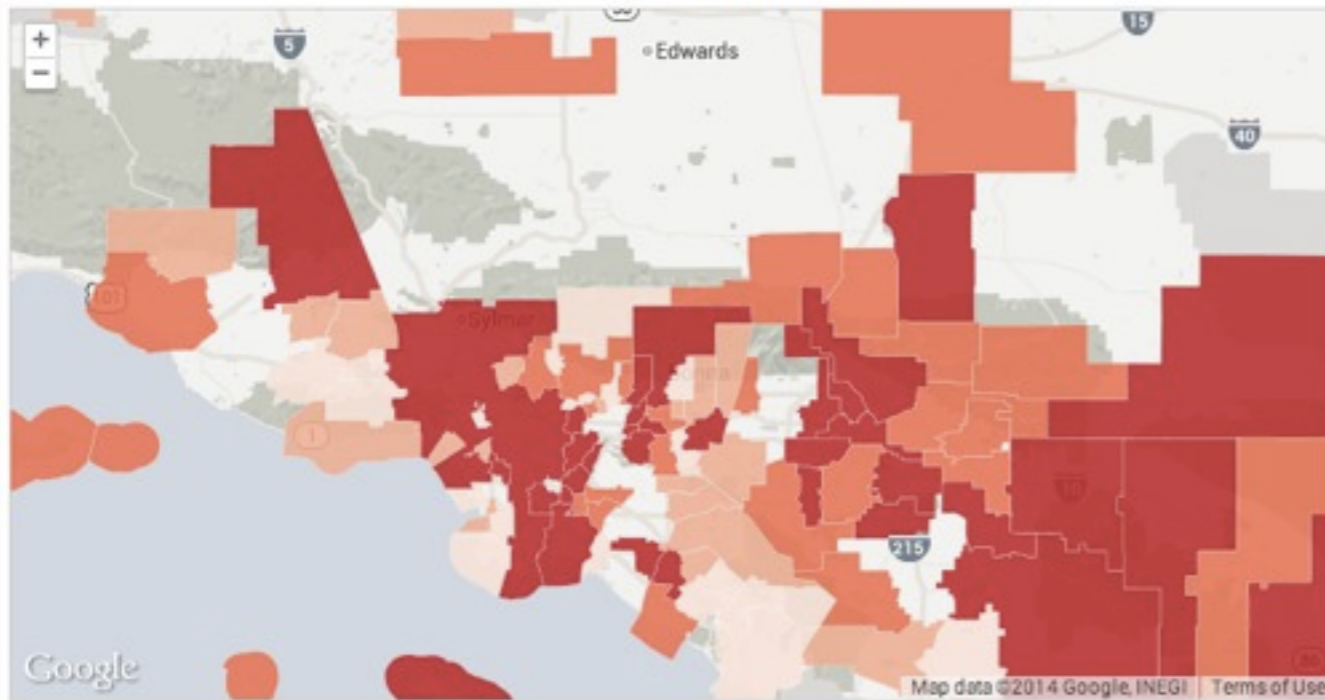
AP Enrollment

AP Pass Rate

Advanced Math Enrollment

Gifted/Talented Enrollment

0% 20% 40% 60%



State ↑

Electoral
votes

Obama

Alabama

9

Alaska

3

Arizona

11

Arkansas

6

California

55

Colorado

9

Connecticut

7

Delaware

3

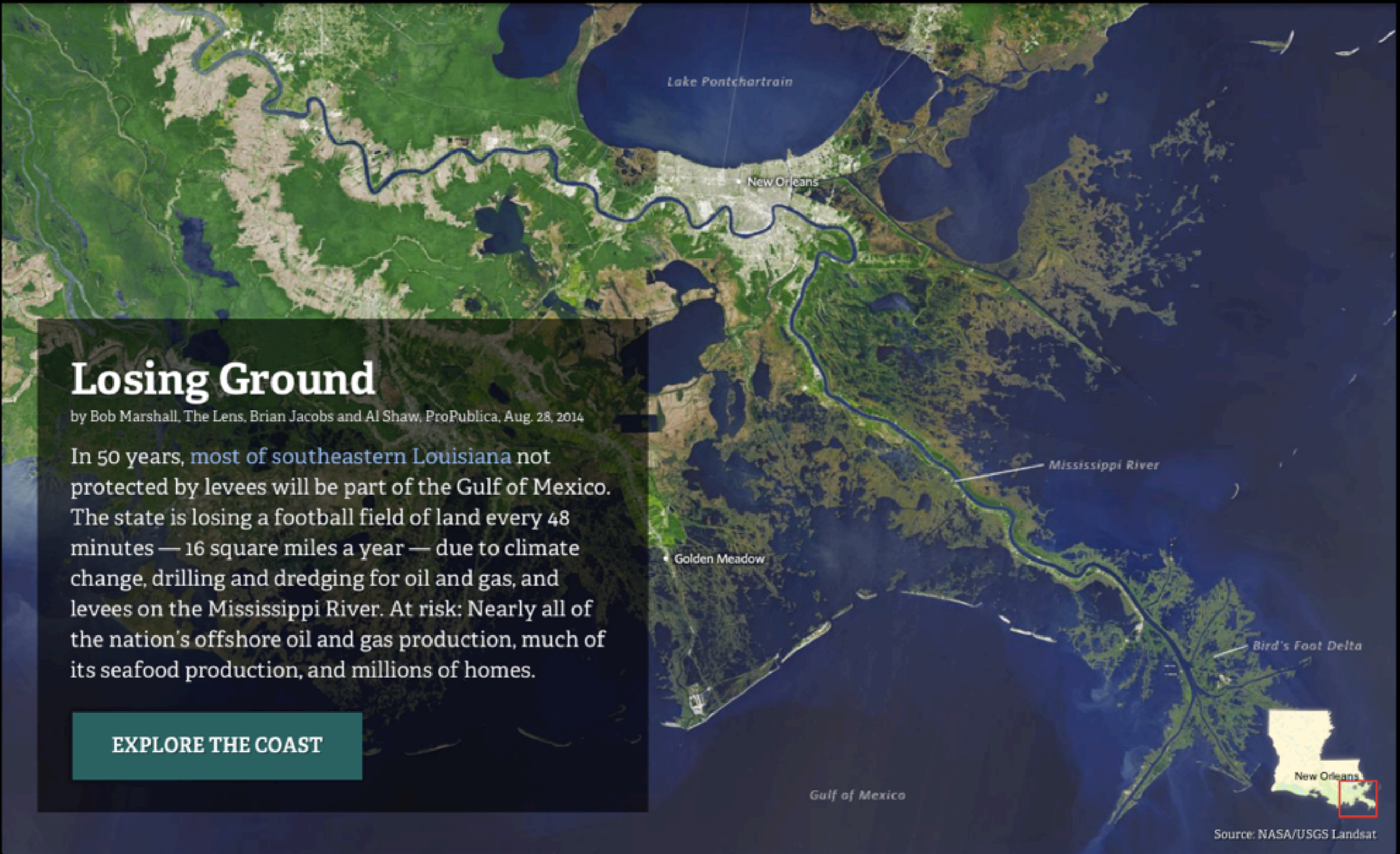
District of Columbia

3

<https://github.com/propublica>

My 2014

Mi 2014



Losing Ground

by Bob Marshall, The Lens, Brian Jacobs and Al Shaw, ProPublica, Aug. 28, 2014

In 50 years, most of southeastern Louisiana not protected by levees will be part of the Gulf of Mexico. The state is losing a football field of land every 48 minutes — 16 square miles a year — due to climate change, drilling and dredging for oil and gas, and levees on the Mississippi River. At risk: Nearly all of the nation's offshore oil and gas production, much of its seafood production, and millions of homes.

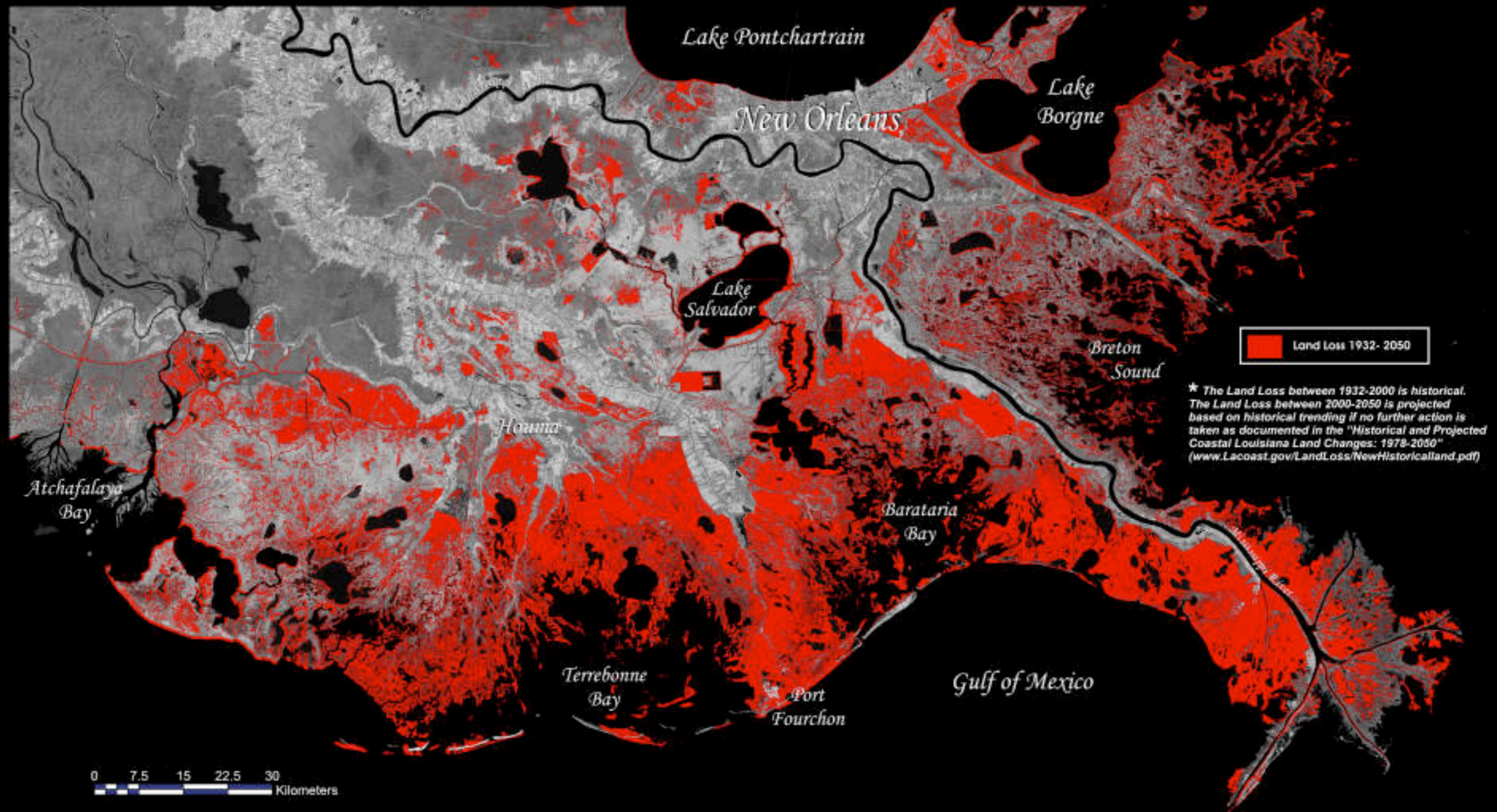
[EXPLORE THE COAST](#)

Two Documents

Dos Documentos

Southeast Louisiana Land Loss

**Historical and Projected Land Loss in the Deltaic Plain*



<http://www.nwrc.usgs.gov/factshts/2005-3101/2005-3101.htm>

primarily
Louisiana
of Delaware

Changing Louisiana shoreline

Shoreline surveys done after the 2005 hurricane season showed that storms, erosion, subsidence and other factors had changed the coastal landscape. The first of several announced results of this work takes 31 place names off National Oceanic and Atmospheric Administration charts.



Source: NOAA, LSU Coastal Studies Institute

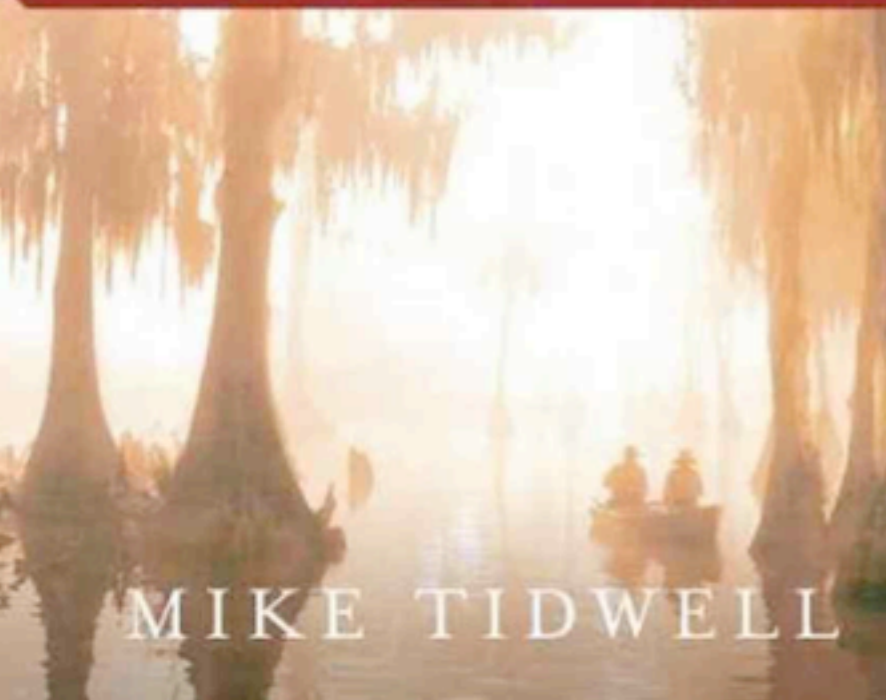
Advocate graphic

"Stunning, beautifully written, the best book on Louisiana I have ever read. Tidwell has captured the soul and heart of the Cajun people." —James Lee Burke

BAYOU FAREWELL

THE RICH LIFE AND TRAGIC DEATH
OF LOUISIANA'S CAJUN COAST

WITH A NEW INTRODUCTION ABOUT THE EFFECTS
OF THE DEEPWATER HORIZON OIL SPILL



MIKE TIDWELL

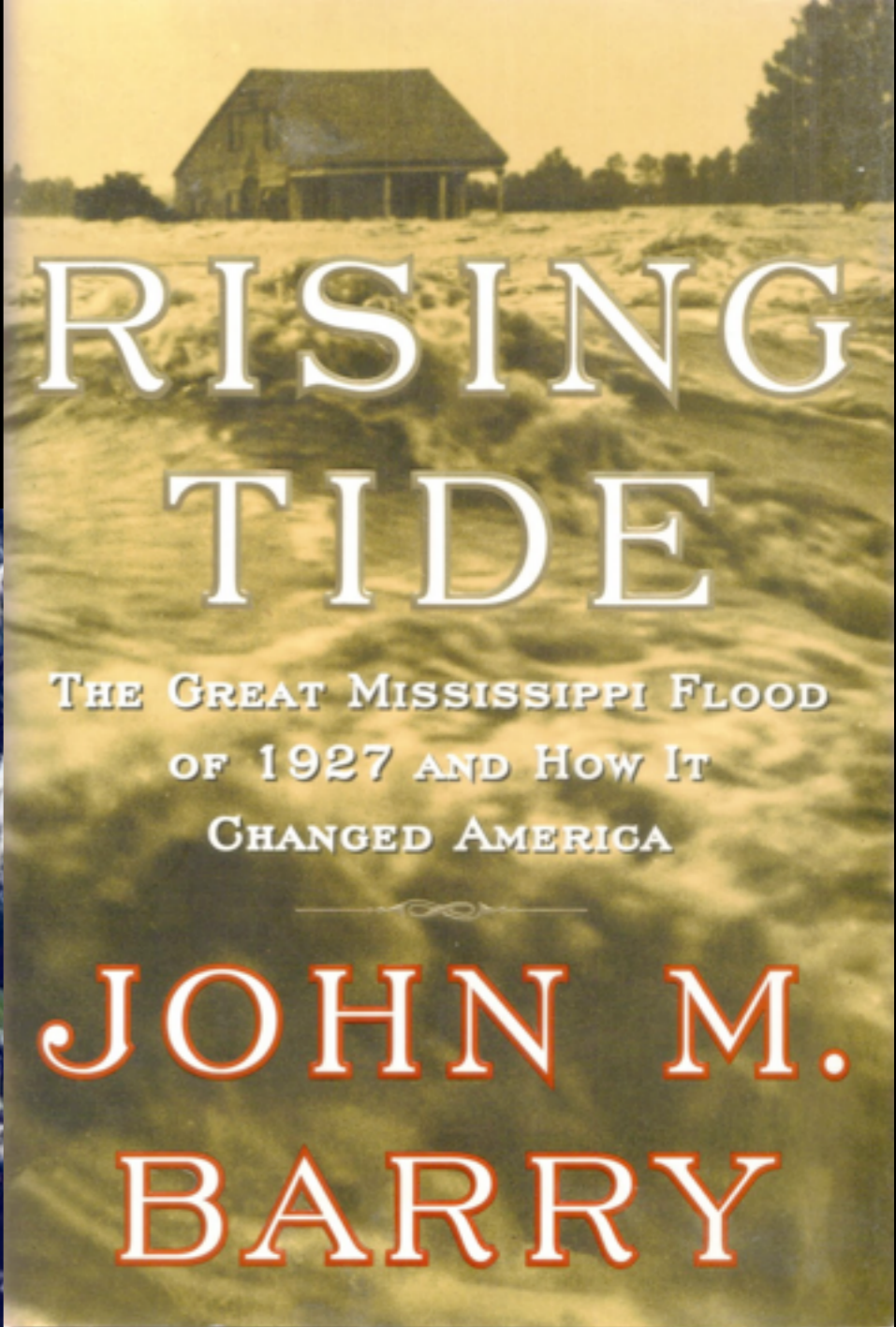


PATH OF DESTRUCTION

THE DEVASTATION OF NEW ORLEANS
AND THE COMING AGE OF SUPERSTORMS

John McQuaid and Mark Schleifstein

Winners of the Pulitzer Prize



RISING TIDE

THE GREAT MISSISSIPPI FLOOD
OF 1927 AND HOW IT
CHANGED AMERICA

JOHN M.
BARRY

Why?

¿Por que?

A Less Mighty Mississippi

During the past 7,000 years, much of the Louisiana coast was created as the mouth of the Mississippi River meandered across the region filling the coastline with sediment. Now, levees and dams are preventing much of that sediment from replenishing the coast.

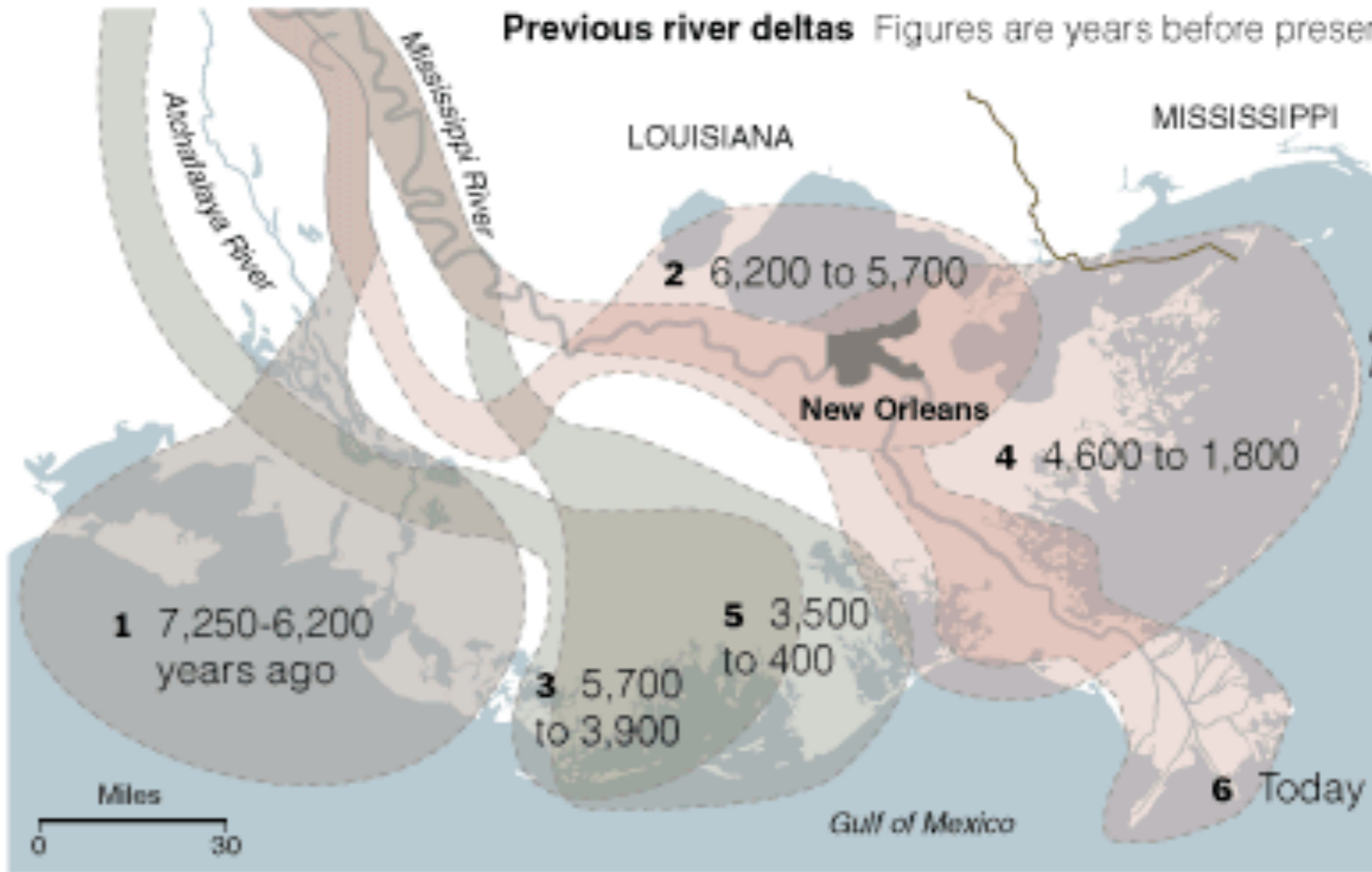
DRAINAGE BASIN

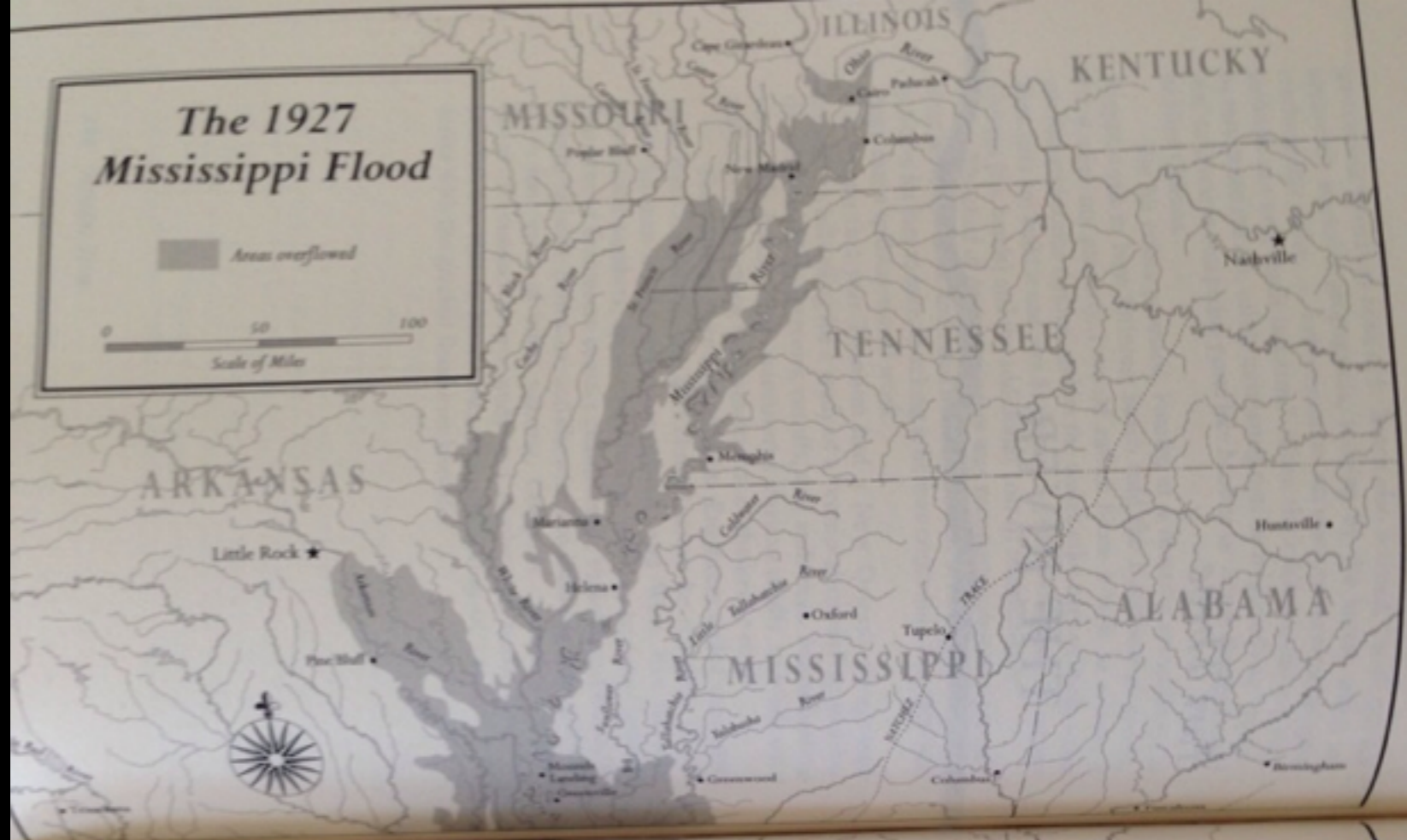
The Mississippi drains more than 40 percent of the continental United States.



MISSISSIPPI'S MANY DELTAS

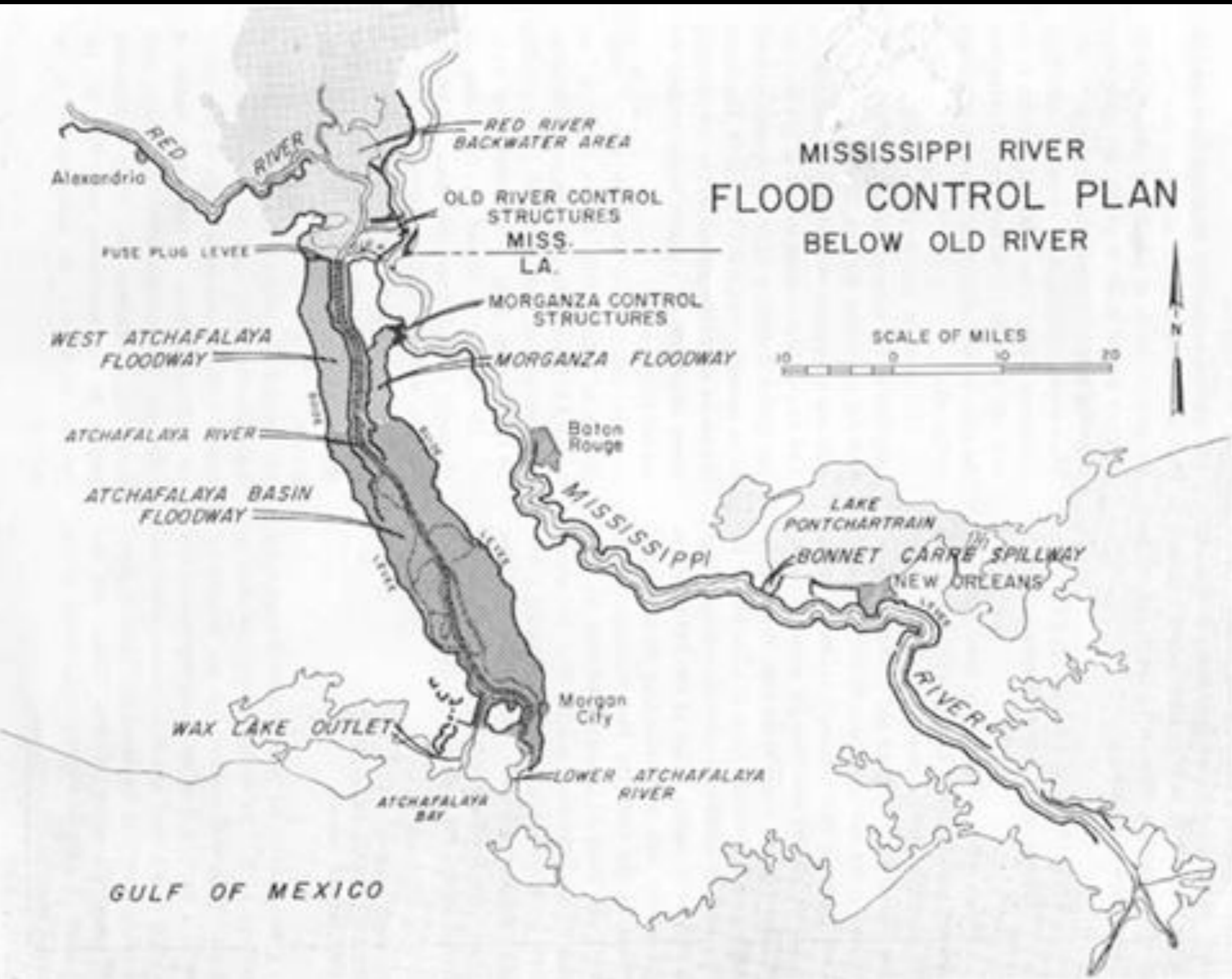
The Mississippi has always meandered but levees are preventing the river from making its next move, most likely to the Atchafalaya River.

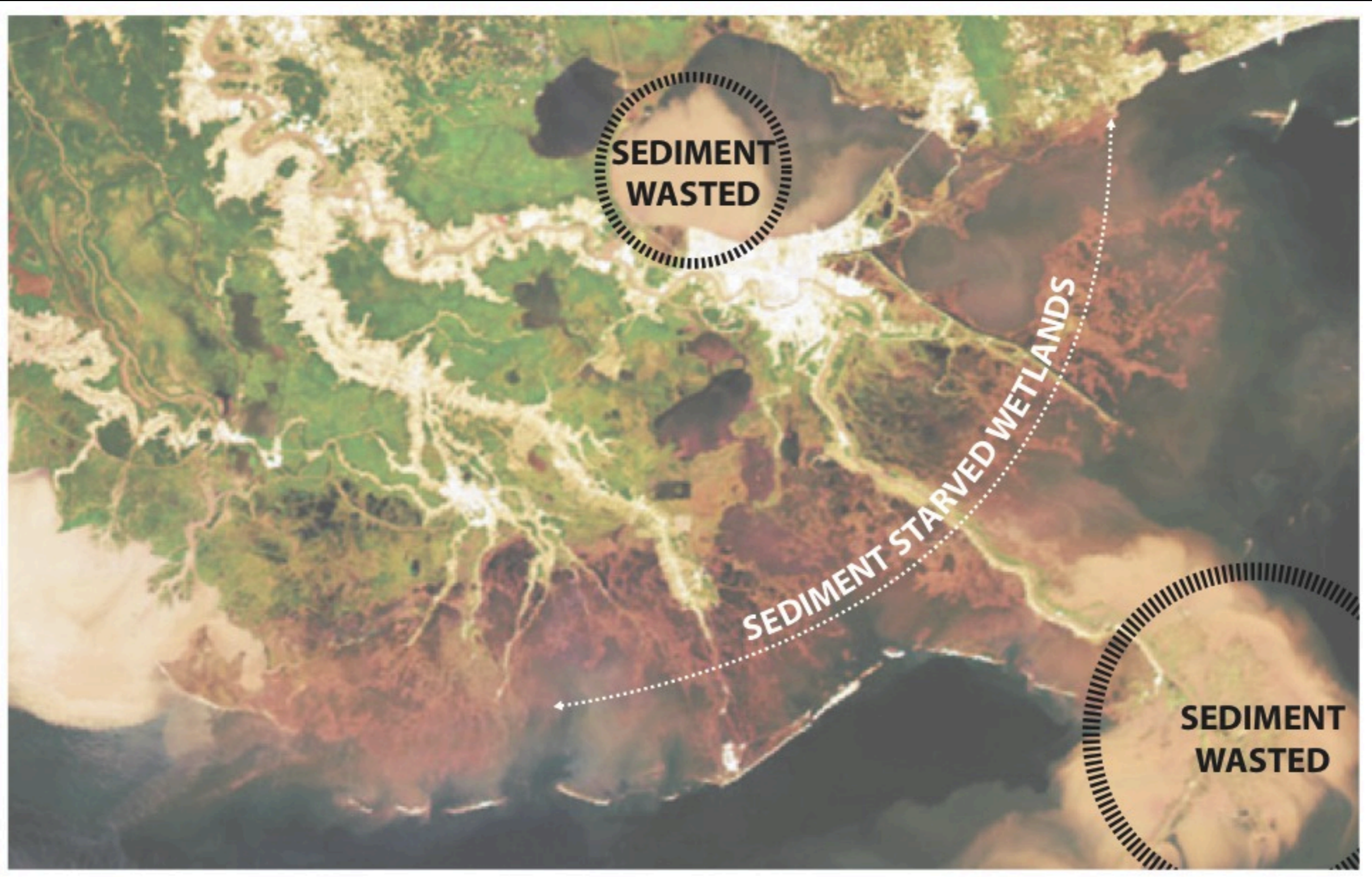


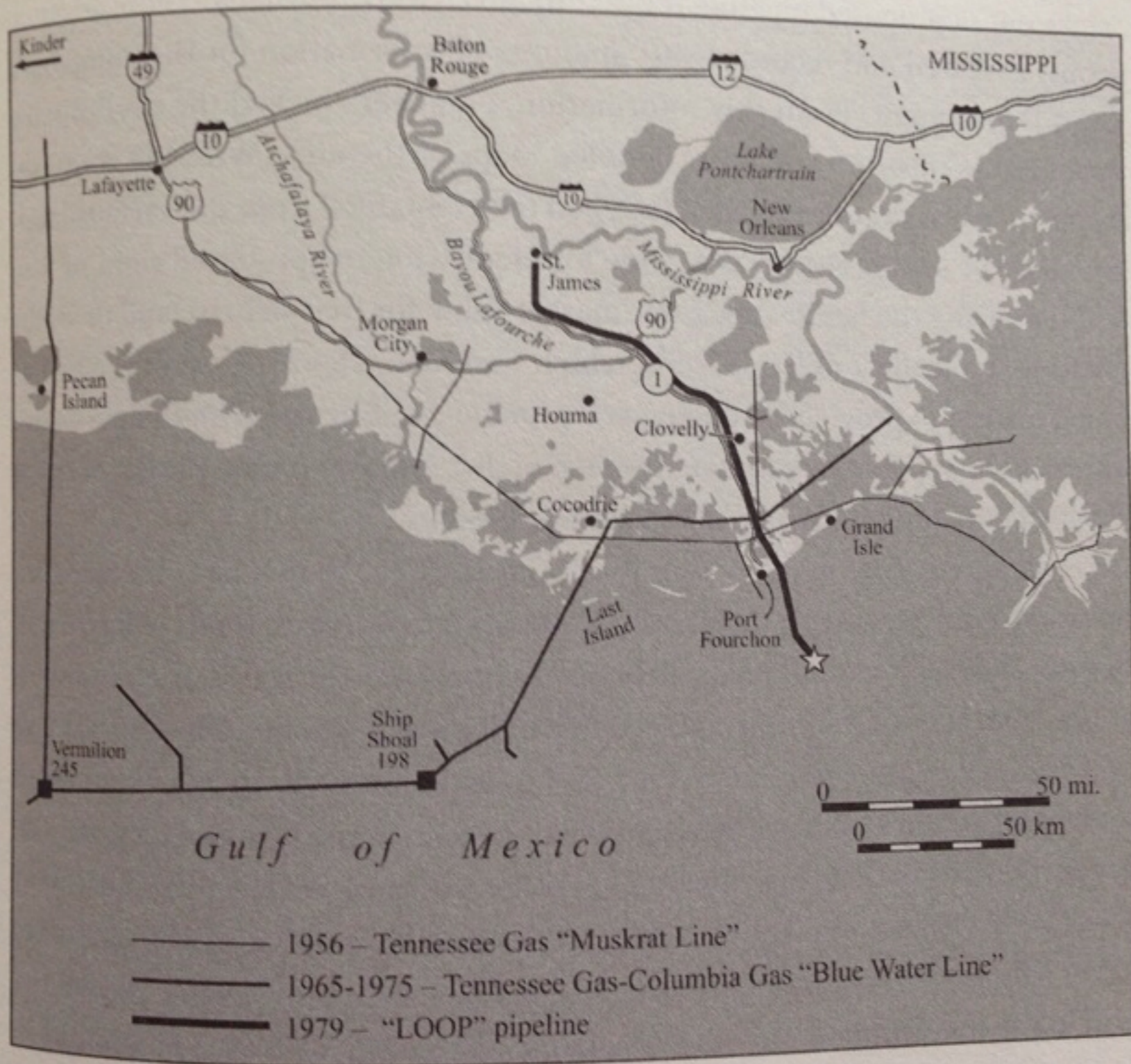




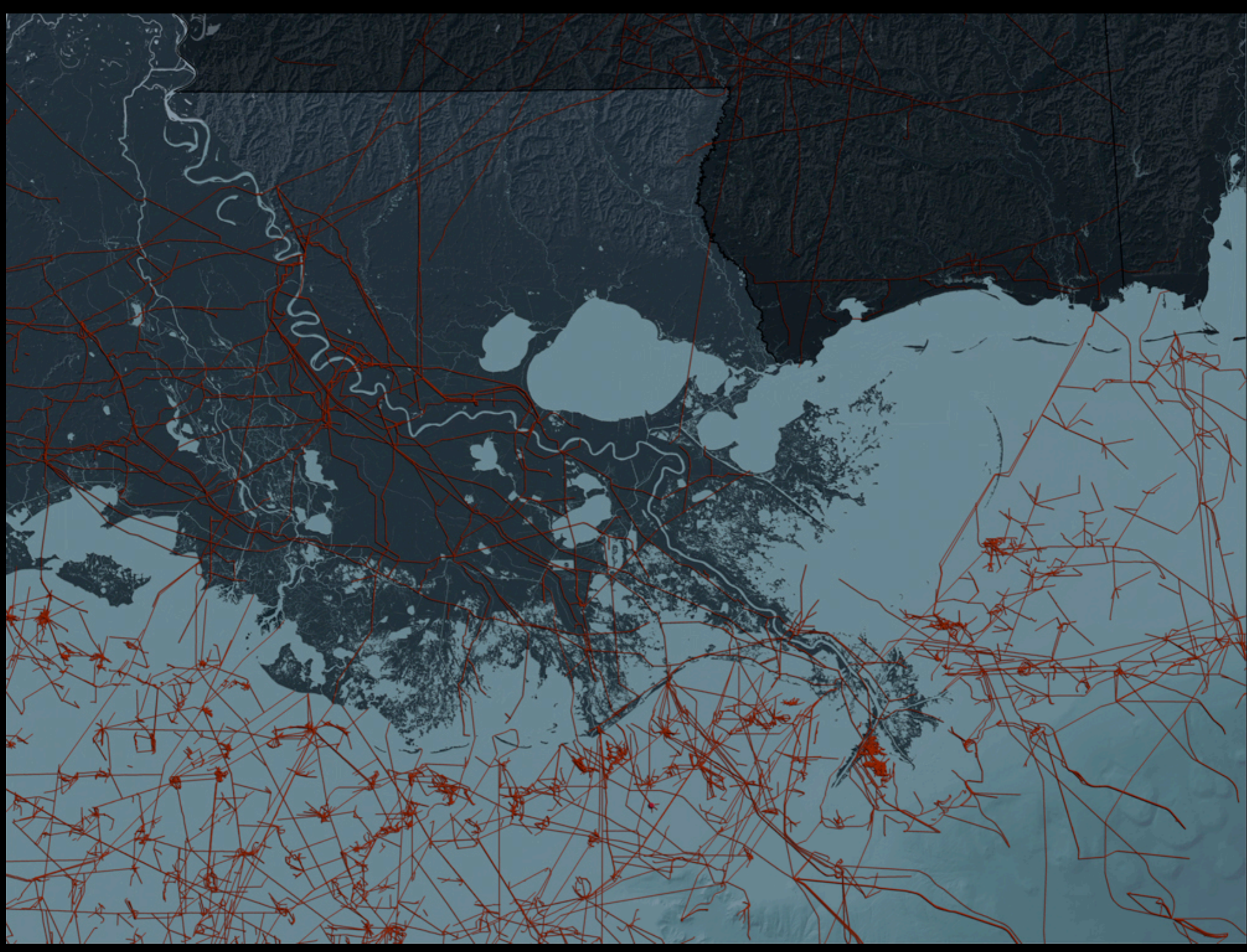
MISSISSIPPI RIVER FLOOD CONTROL PLAN BELOW OLD RIVER



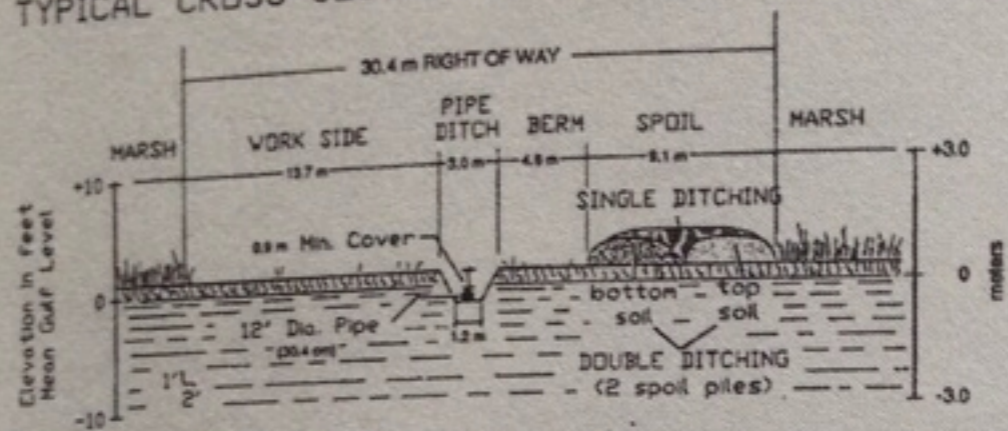




Map 3. Three of the largest pipeline systems ever built in coastal Louisiana: (a) Tennessee Gas Muskrat Line through the Mississippi delta, (b) Tennessee Gas-Columbia Gulf Blue Water offshore pipeline, and (c) the Louisiana Offshore Oil Port (LOOP) pipeline through Lower Lafourche Parish. (Mary Lee Eggart, 2013)



TYPICAL CROSS-SECTION OF PUSH-PULL DITCH



TYPICAL CROSS-SECTION OF FLOTATION CANAL

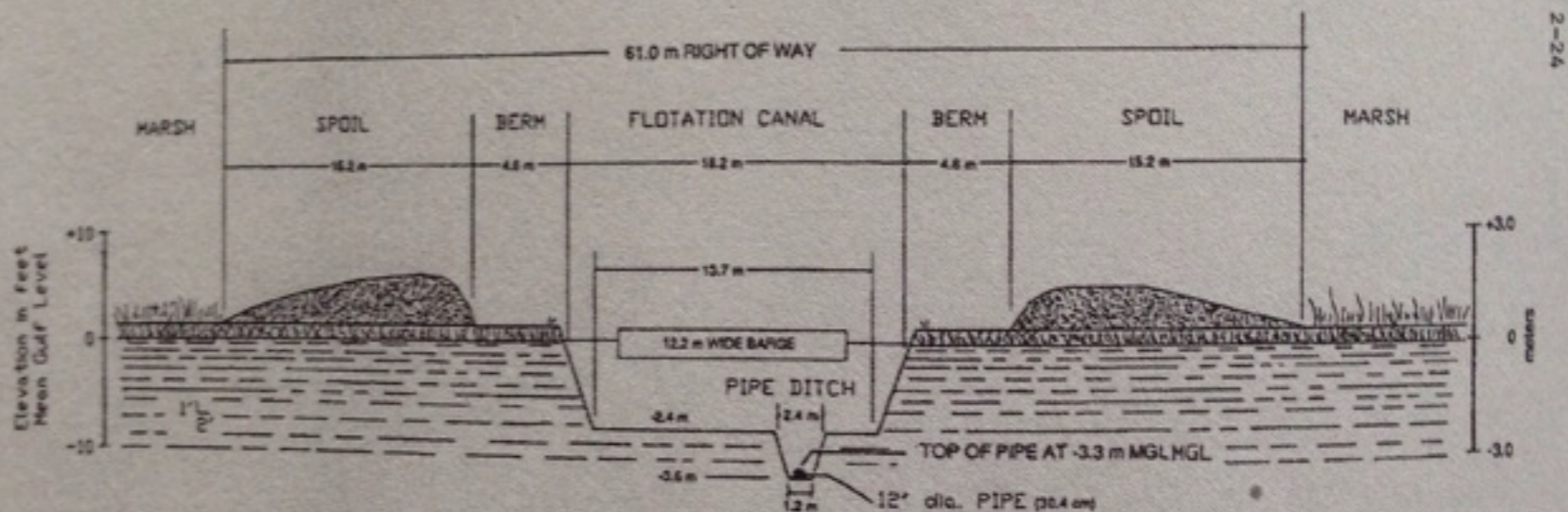
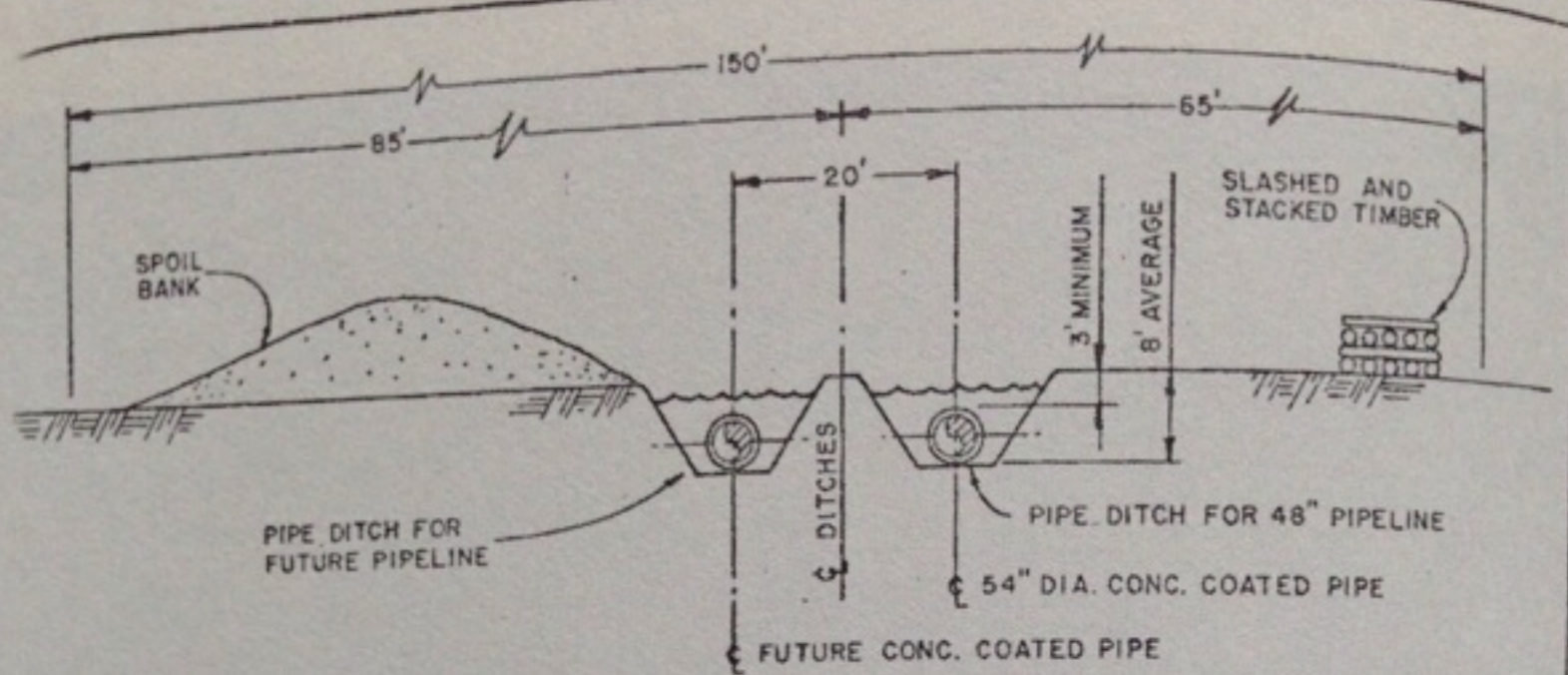
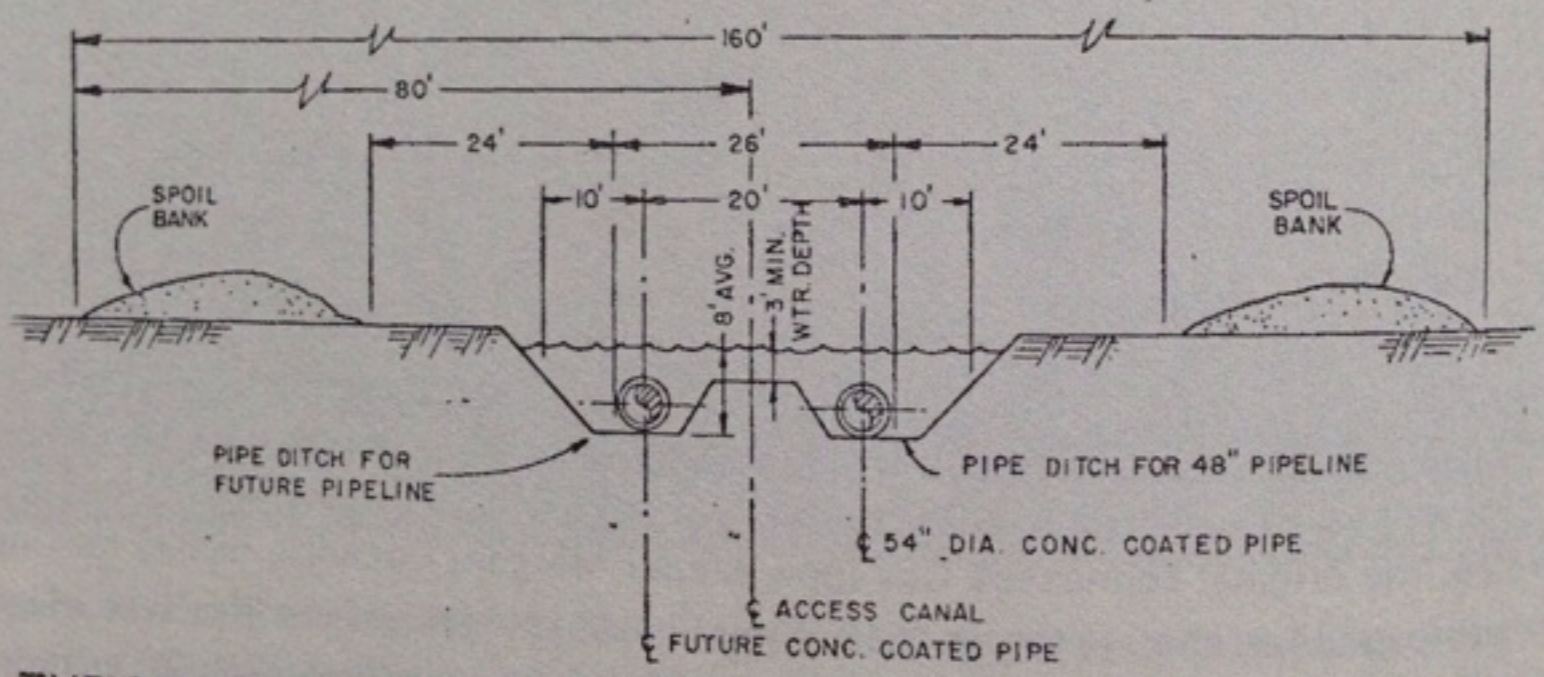


Figure 2.6. Comparison of typical cross sections for a push-pull ditch and a flotation canal.

Figure 15. Diagram of canal construction using the flotation canal method for large-diameter pipelaying operations in the wetlands. The narrow pipe trench in which the pipeline was permanently set was covered and protected with mud, rocks, and other material. The larger flotation canal, however, was rarely, if ever, backfilled with the spoil until regulations began requiring...



TYPICAL CROSS SECTION FOR PUSH DITCH



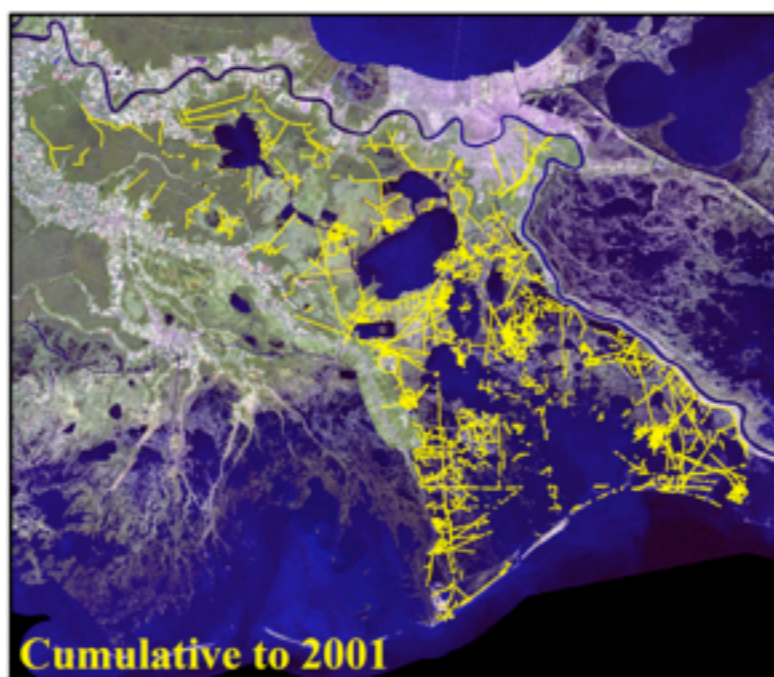
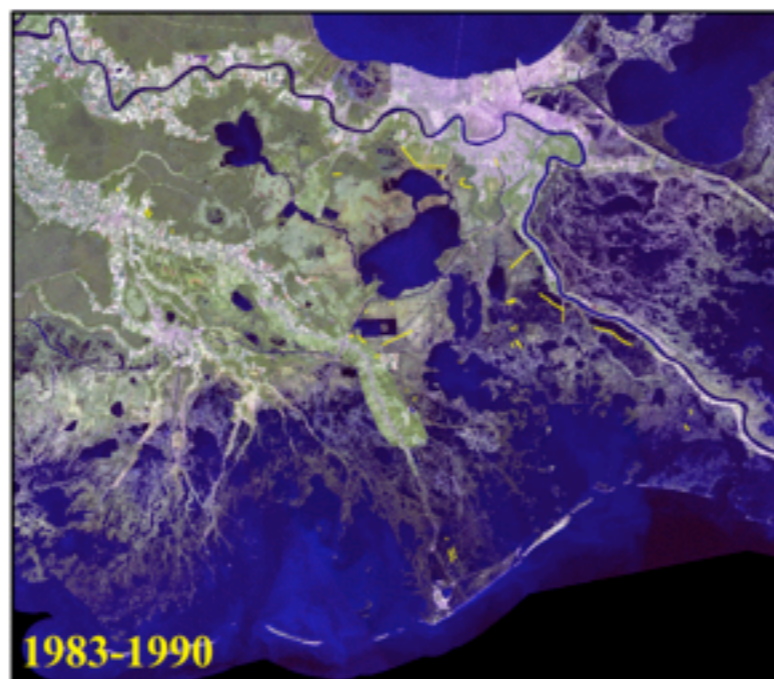
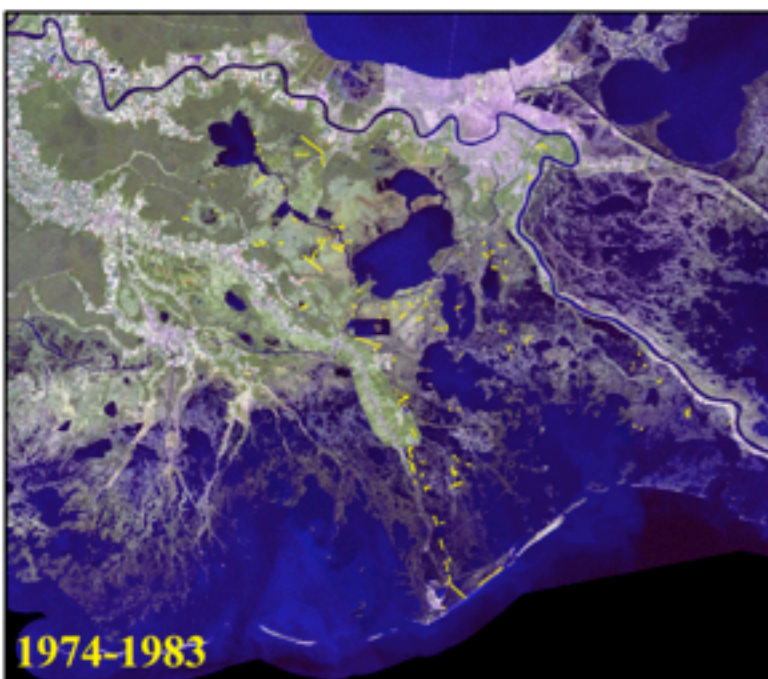
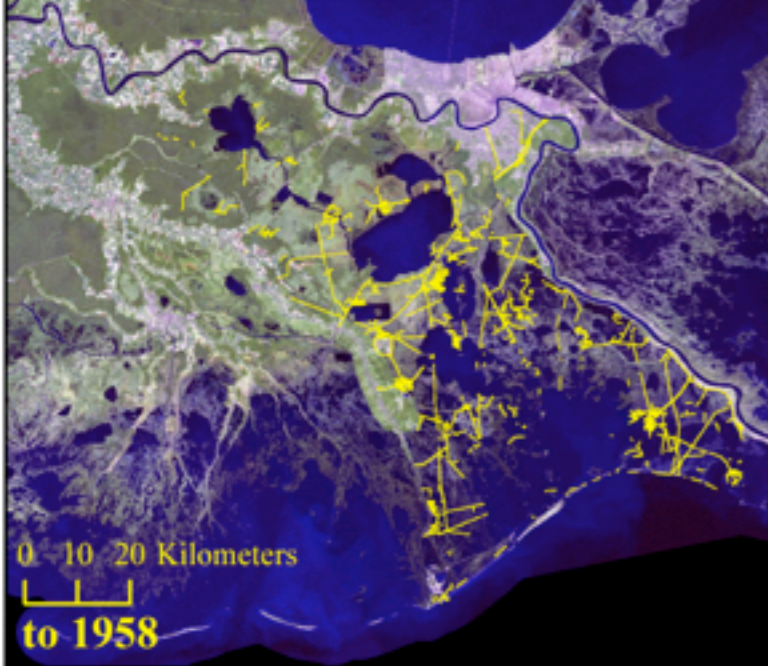
TYPICAL CROSS SECTION FOR PUSH AND ACCESS CANAL

NOTE: THE ENTIRE LENGTH OF LINE WILL BE BACKFILLED WITH AVAILABLE SPOIL AFTER THE PIPELINES ARE INSTALLED.

LOOP INC.
 TYPICAL CROSS SECTIONS
 FOR
 ST. JAMES PIPELINES



Flickr: Gulf Restoration Network





1956

1972

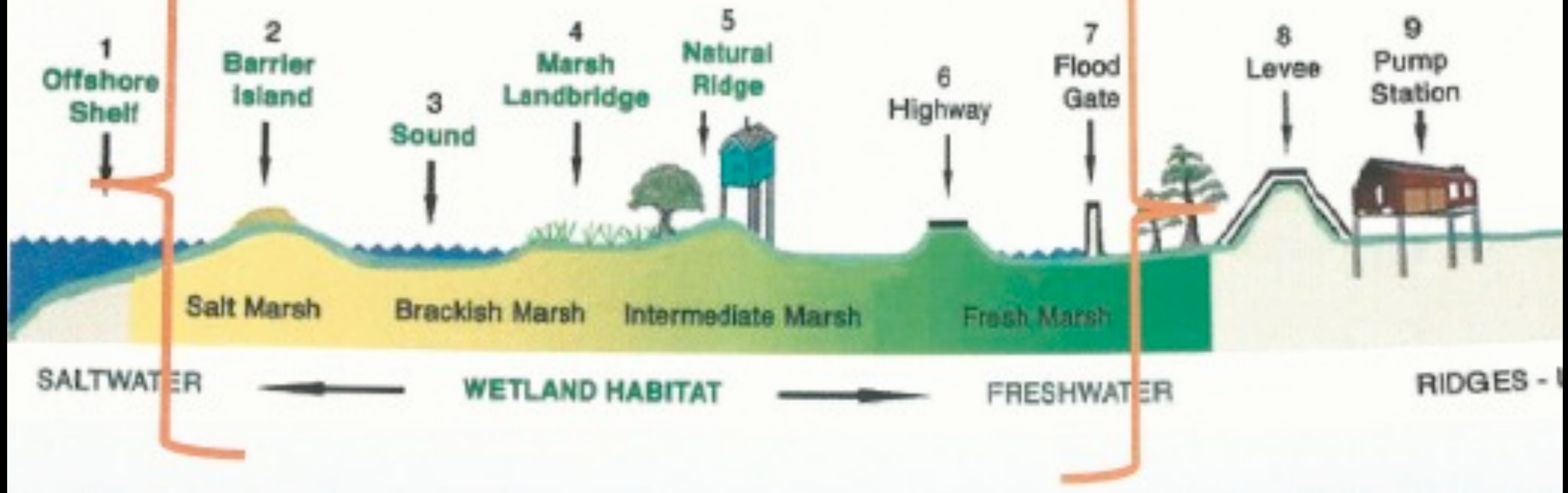
2013

“Rueda de Vagón,” Venice, Louisiana

“Wagon wheel,” Venice, La.

USGS Aerials

First Line of Defense

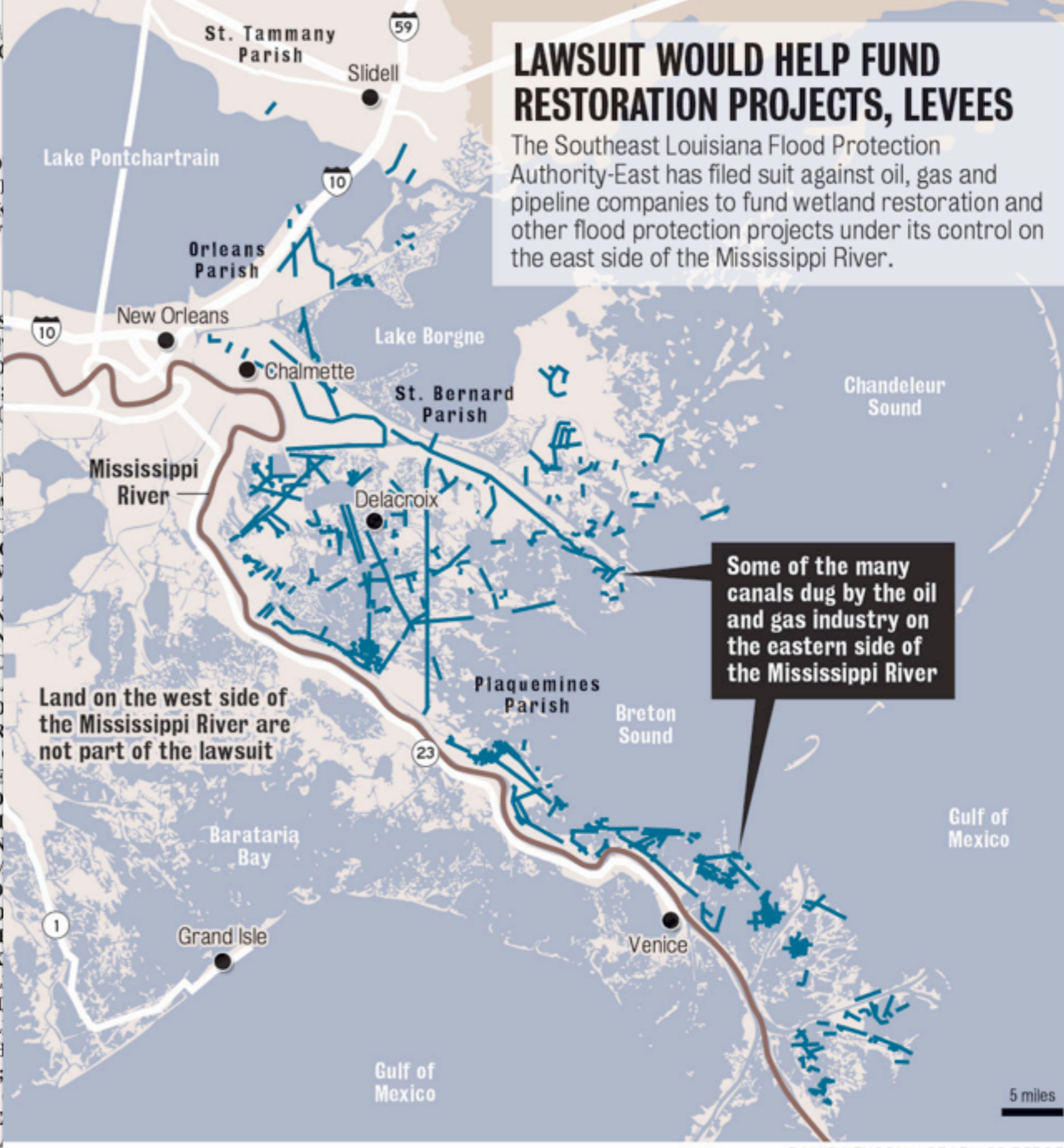


NO. 13-6911

BOARD OF COMMISSIONERS OF THE SOUTHEAST LOUISIANA FLOOD PROTECTION AUTHORITY – EAST, INDIVIDUALLY AND JOINTLY GOVERNING THE ORLEANS LEVEE DISTRICT, THE LAKE CHARTRAIN LEVEE DISTRICT, AND THE EAST JEFFERSON LEVEE DISTRICT,

V.

TENNESSEE GAS PIPELINE COMPANY, LLC; ALTA MESA ENERGY SERVICES, LLC; ANADARKO E&P ONSHORE, LLC; APACHE CORP.; ATLANTIC PIPELINE CO., LP; BEPCO, LP; BHP BILLITON PETROLEUM (KCS RESOURCES) BOARDWALK PIPELINE PARTNERS, LP; BOPCO, LP; BOWEN PIPELINE PRODUCTION CO.; BP OIL PIPELINE CO.; BP-PIPELINES (USA) INC.; CALLON OFFSHORE PRODUCTION, INC.; CALLON PIPELINE CO.; CASKIDS OPERATING CO.; CASTEX ENERGY, INC.; CENTERPOINT ENERGY RESOURCES CORP.; CHEVRON ENERGY SERVICES U.S.A., INC.; CHROMA OPERATING, INC.; CLARK PIPELINE CO.; COASTAL EXPLORATION & PRODUCTION, LLC; COLLINS PIPELINE CO.; CONOCO PIPELINE CO.; CONTINENTAL OIL CO.; COX OPERATING, LLC; CRAVENS OPERATING CO.; CROSSTEX LIG, LLC; DALLAS EXPLORATION & PRODUCTION CO.; DEVON ENERGY PRODUCTION CO., LP; ENERGEN ENTERPRISE INTRASTATE, LLC; EOG RESOURCES, INC.; ENTERPRISE MANAGEMENT, LLC; ESTATE OF WILLIAM G. HELIS; EXXONMOBIL PIPELINE CO.; FLASH GAS & OIL NORTHERN OPERATING, LLC; ROYALTY, LTD.; GREKA AM, INC.; GULF PRODUCTION CO.; HARVEST OIL & GAS, LLC; HILLIARD OIL & GAS, INC.; HESS CORPORATION, A DELAWARE CORPORATION; HESS OIL & GAS, INC.; HKN, INC.; INTEGRATED ENERGY SERVICES, LLC; J.C. TRAHAN DRILLING CONTRACTORS, INC.; KENMORE OIL CO., INC.; KEWANEE INDUSTRIES, INC.; KOCH EXPLORATION CO., LLC; KOCH INTRASTATE OPERATING, LLC; LIBERTY OIL & GAS CORP.; LLOG EXPLORATION CO.; MARATHON OIL CO.; MCMORAN EXPLORATION CO., LLC; MOSBACHER ENERGY CO.; MURPHY EXPLORATION & PRODUCTION CO.; NATURAL RESOURCES CORP. OF TEXAS; NEWFIELD ENERGY SERVICES, LLC; NOBLE ENERGY, INC.; O'MEARA, LLC; ORX OIL & GAS, L.P.; P.R. RUTHERFORD; PLACID OIL CO.; PLAINS PIPELINE, L.P.; REPUBLIC MINERAL CORP.; RIPCO, LLC; ROZELLE PIPELINE CO., INC.; SENECA RESOURCES CORP.; SHELCO ENERGY SERVICES, INC.; SOUTHERN BAY ENERGY, LLC; SOUTHCOAST ENERGY, LLC; STATOIL EXPLORATION (US), INC.; SUN OIL CO., LP; THE LOUISIANA LAND AND EXPLORATION CO., LLC; THE MERIDIAN RESOURCE & EXPLORATION, LLC; THE PICKERING OIL CO. OF CALIFORNIA; VINTAGE PETROLEUM, LLC; WHITING OIL & GAS CORP.; WILLIAMS OIL & GAS CORP.; YUMA EXPLORATION AND PRODUCTION CO., INC.



LAWSUIT WOULD HELP FUND RESTORATION PROJECTS, LEVEES

The Southeast Louisiana Flood Protection Authority-East has filed suit against oil, gas and pipeline companies to fund wetland restoration and other flood protection projects under its control on the east side of the Mississippi River.

Some of the many canals dug by the oil and gas industry on the eastern side of the Mississippi River

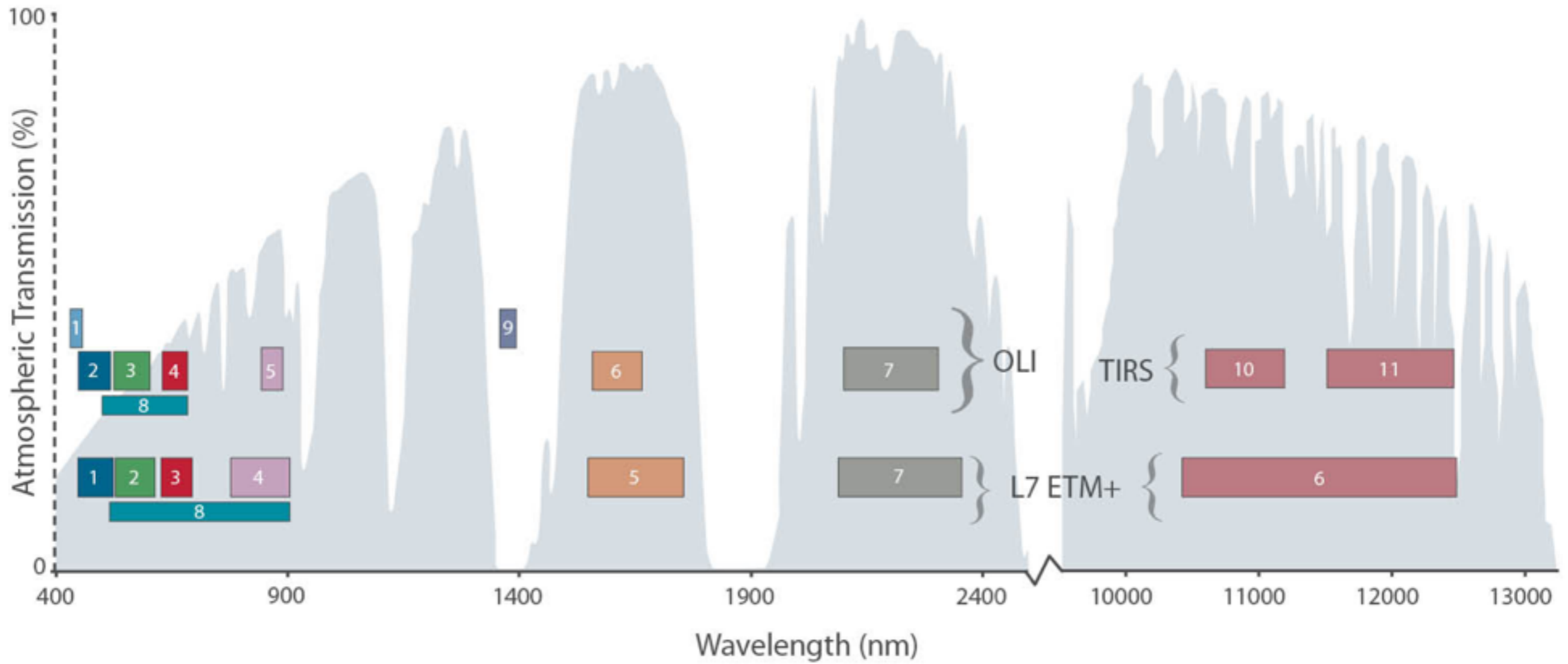
Land on the west side of the Mississippi River are not part of the lawsuit

Investigative Space Journalism!

Periodismo de investigación — ¡en el espacio!

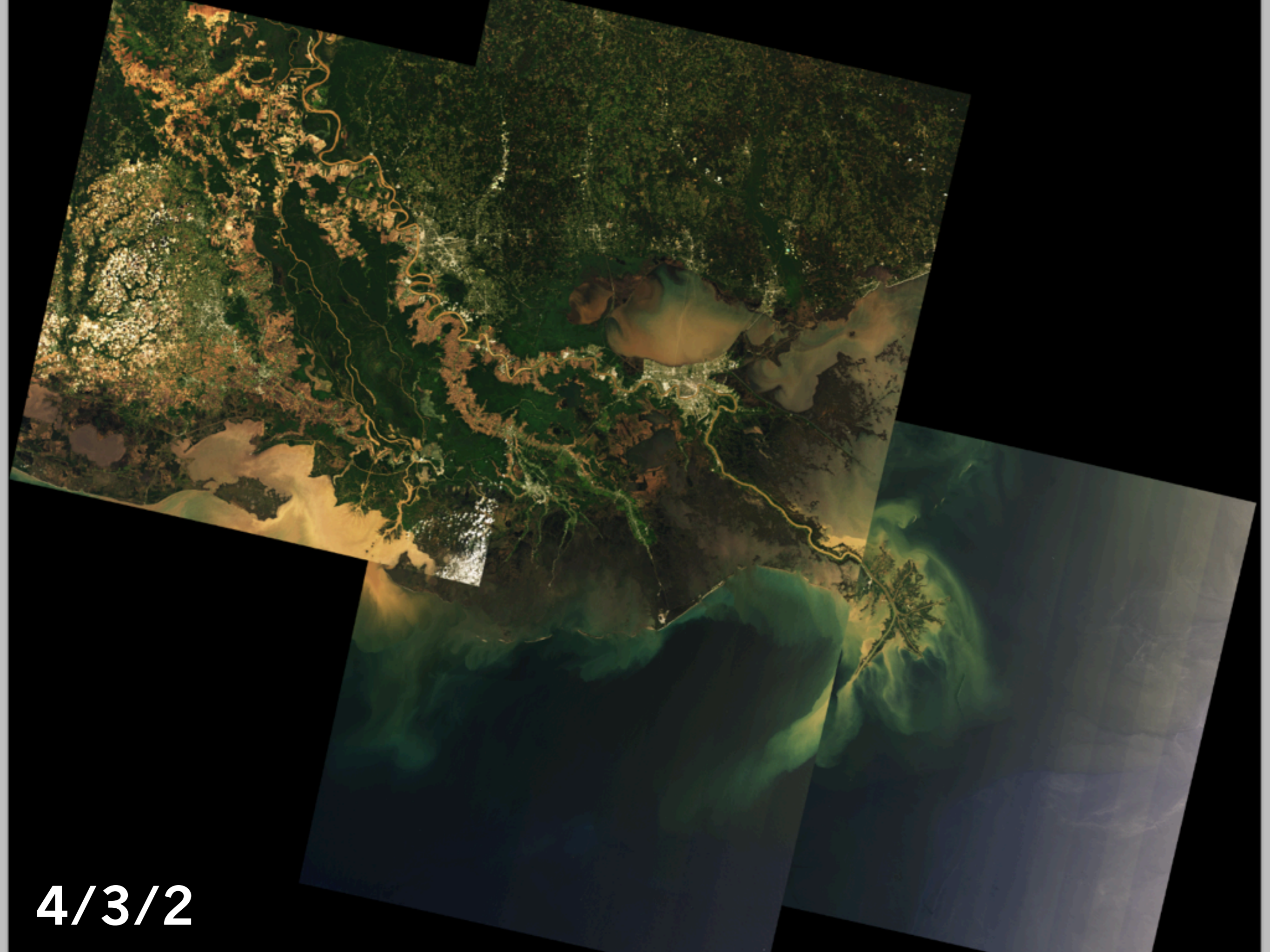


Landsat 8



Landsat 8

Landsat 8 Operational Land Imager (OLI) and Thermal Infrared Sensor (TIRS) Launched February 11, 2013	Bands	Wavelength (micrometers)	Resolution (meters)
	Band 1 - Coastal aerosol	0.43 - 0.45	30
	Band 2 - Blue	0.45 - 0.51	30
	Band 3 - Green	0.53 - 0.59	30
	Band 4 - Red	0.64 - 0.67	30
	Band 5 - Near Infrared (NIR)	0.85 - 0.88	30
	Band 6 - SWIR 1	1.57 - 1.65	30
	Band 7 - SWIR 2	2.11 - 2.29	30
	Band 8 - Panchromatic	0.50 - 0.68	15
	Band 9 - Cirrus	1.36 - 1.38	30
	Band 10 - Thermal Infrared (TIRS) 1	10.60 - 11.19	100 * (30)
Band 11 - Thermal Infrared (TIRS) 2	11.50 - 12.51	100 * (30)	



4/3/2



7/5/3




4/3/2 + 5 mask

<https://www.mapbox.com/blog/putting-landsat-8-bands-to-work/>


Mapbox Design Data Develop Showcase Plans Help Blog Sign in Try it for free

BLOG

Putting Landsat 8's Bands to Work

By  Charlie Loyd on June 14 2013

Here's a picture of LA, just like an ordinary digital camera would take (if it had ten times as many megapixels and were in space). The image is only two weeks old, taken from Landsat 8, launched by NASA late this winter. Landsat 8 is already one of our favorite data sources – and not just ours: at [State of the Map](#) last weekend, it kept coming up in conversation with people from all kinds of backgrounds. More than just adding fresh true-color imagery from Landsat 8 to MapBox Satellite, we're investing in data services using the multispectral information that the satellite provides. Its non-visual bands let us analyze everything from terrain types to crop growth to natural disasters – all around the world, sometimes within hours. This post introduces some of Landsat 8's features, to give you a feel for what the world looks like through its lens.





<http://earthobservatory.nasa.gov/blogs/elegantfigures/2013/10/22/how-to-make-a-true-color-landsat-8-image/>

NASA EARTH OBSERVATORY Where every day is Earth Day


Home Images Global Maps Features News & Notes

Home / Blogs / [Elegant Figures](#) / How To Make a True-Color Landsat 8 Image

How To Make a True-Color Landsat 8 Image

October 22nd, 2013 by Robert Simmon      [Share](#)

Since its launch in February 2013, Landsat 8 has collected about 400 scenes of the Earth's surface per day. Each of these scenes covers an area of about 185 by 185 kilometers (115 by 115 miles)—34,200 square km (13,200 square miles)—for a total of 13,690,000 square km (5,290,000 square miles) per day. An area about 40% larger than the united states. Every day.





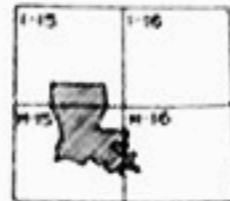
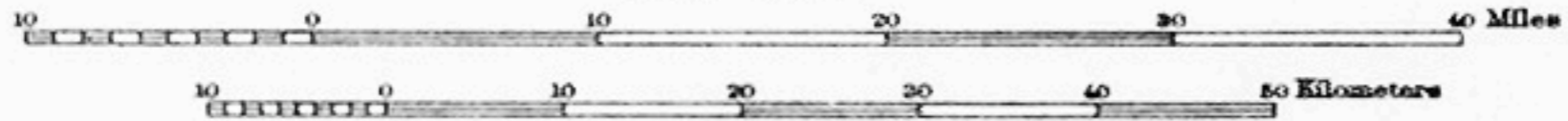
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF LOUISIANA

A. F. Hassan, Cartographer

Compiled and published in 1922, reprinted 1948
Compilation based on State map by the General Land Office

Scale 500,000



Relation of the State of Louisiana to sheets of the Map of the World on the scale of 1:1,000,000

- ☆ State capital
- MONROE County seat name
- Larger cities
- Town or village
- Railroads

Modified polyconic projection
North American datum

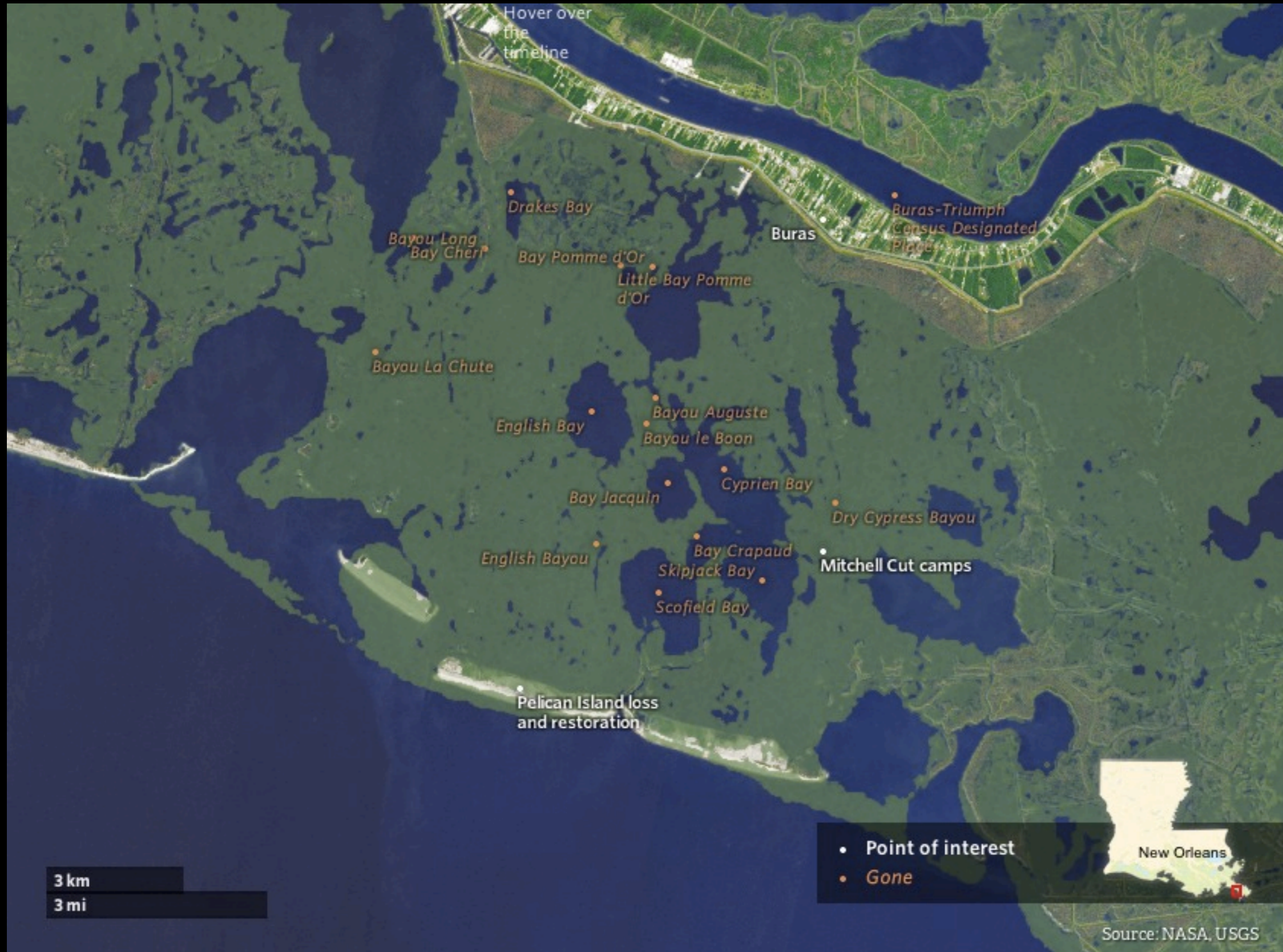




30 km

20 mi

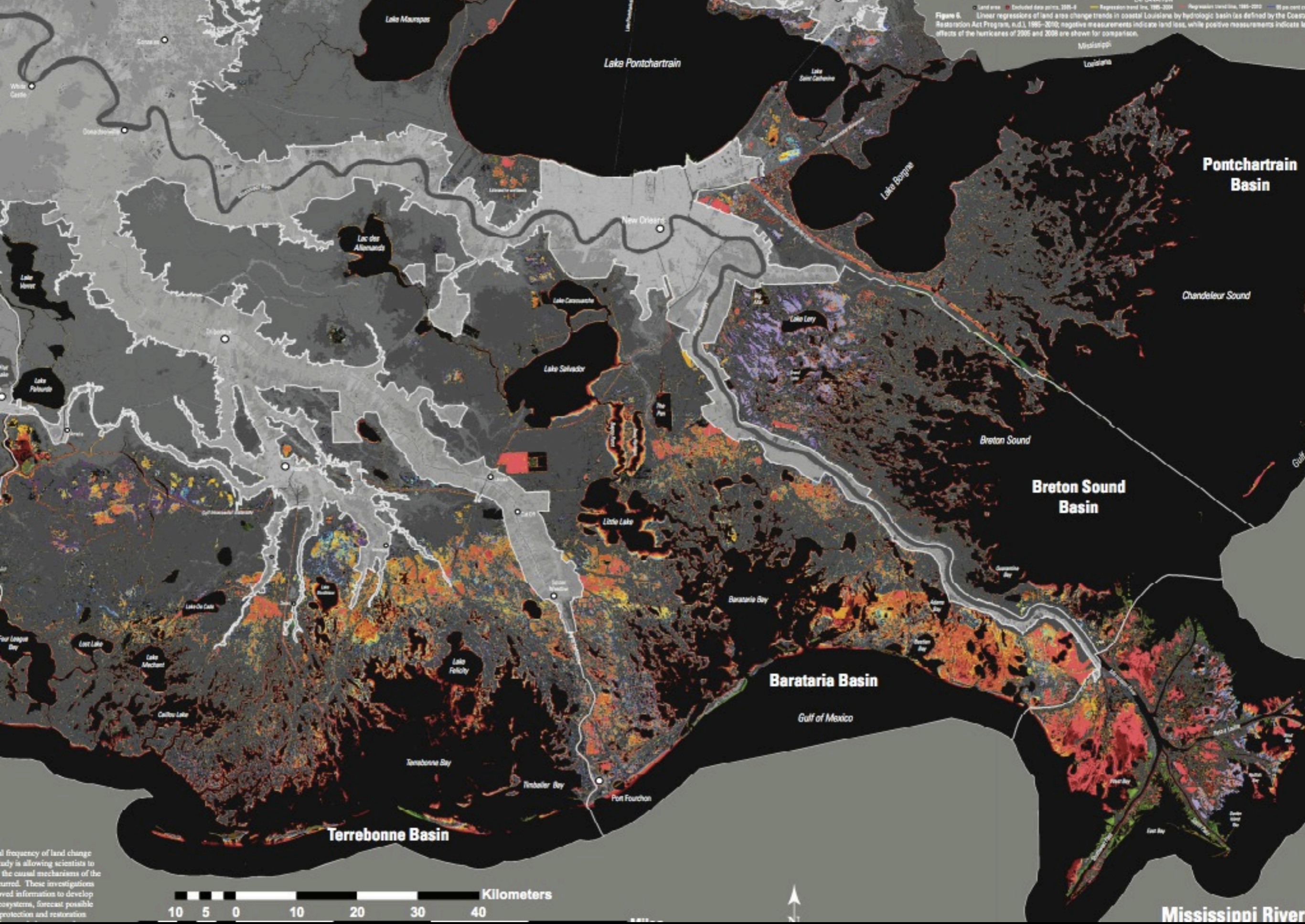
Creating “land” *Crear “tierra”*



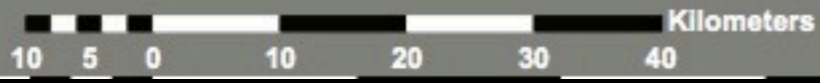
Buras, La. land loss 1932 to present via USGS, over 2014 Landsat 8

Creating “land” *Crear “tierra”*





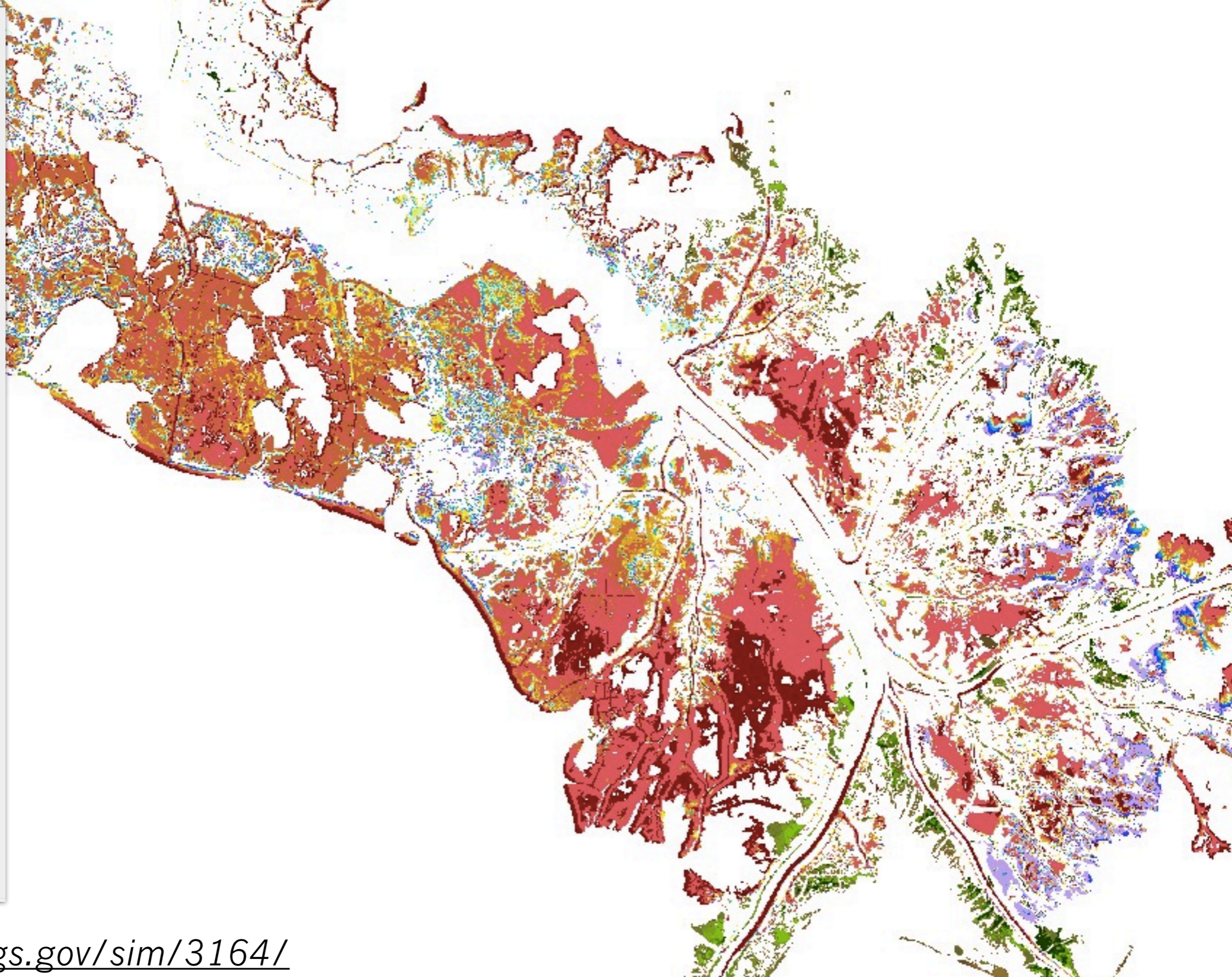
al frequency of land change study is allowing scientists to the causal mechanisms of the current. These investigations proved information to develop ecosystems, forecast possible protection and restoration



Creating “land” *Crear “tierra”*

EXPLANATION

- 1932–56 land gain¹
- 1956–73 land gain^{1,4}
- 1973–75 land gain^{1,4}
- 1975–77 land gain^{1,4}
- 1977–85 land gain^{1,4}
- 1985–88 land gain¹
- 1988–90 land gain¹
- 1990–95 land gain¹
- 1995–98 land gain¹
- 1998–99 land gain¹
- 1999–2002 land gain¹
- 2002–4 land gain¹
- 2004–6 land gain¹
- 2006–8 land gain¹
- 2008–9 land gain^{1,3}
- 2009–10 new land^{1,3}
- 1932–56 land loss²
- 1956–73 land loss^{2,4}
- 1973–75 land loss^{2,4}
- 1975–77 land loss^{2,4}
- 1977–85 land loss^{2,4}
- 1985–88 land loss²
- 1988–90 land loss²
- 1990–95 land loss²
- 1995–98 land loss²
- 1998–99 land loss²
- 1999–2002 land loss²
- 2002–4 land loss²
- 2004–6 land loss²
- 2006–8 land loss²
- 2008–9 land loss^{2,3}
- 2009–10 new water^{2,3}



Creating “land” *Crear “tierra”*

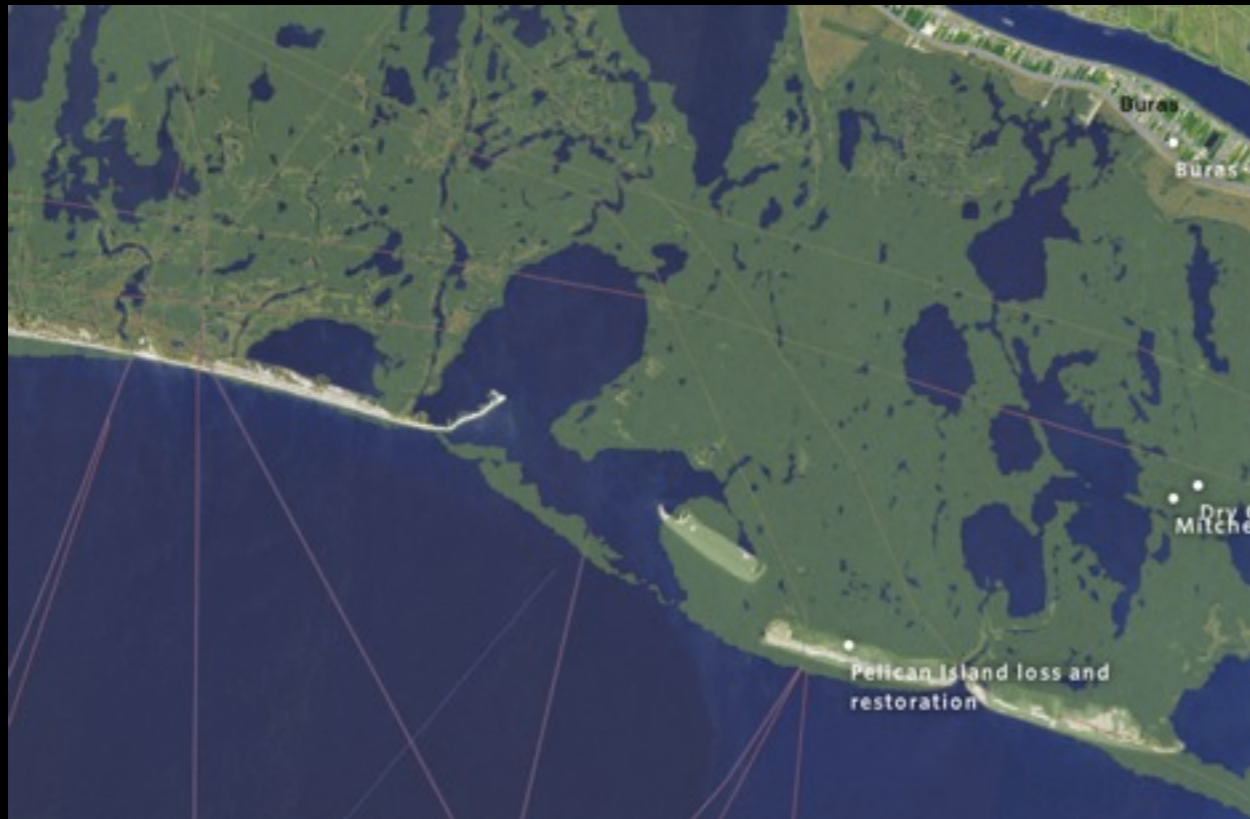
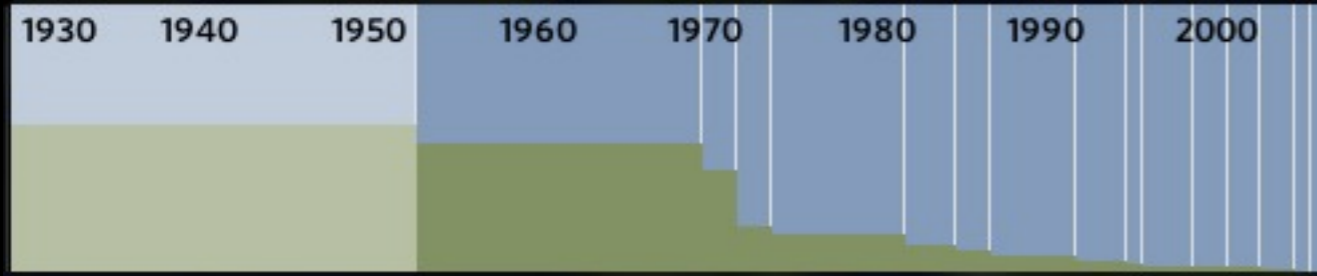
```
colors = {
  "1932-1956-gain"    => "srgba(0,66,0,1)",
  "1956-1973-gain"   => "srgba(28,102,0,1)",
  "1973-1975-gain"   => "srgba(51,135,5,1)",
  "1975-1977-gain"   => "srgba(76,168,10,1)",
  "1977-1985-gain"   => "srgba(102,201,15,1)",
  "1985-1988-gain"   => "srgba(109,165,28,1)",
  "1988-1990-gain"   => "srgba(109,150,33,1)",
  "1990-1995-gain"   => "srgba(107,135,38,1)",
  "1995-1998-gain"   => "srgba(102,119,40,1)",
  "1998-1999-gain"   => "srgba(96,107,45,1)",
  "1999-2002-gain"   => "srgba(112,114,45,1)",
  "2002-2004-gain"   => "srgba(135,132,43,1)",
  "2004-2006-gain"   => "srgba(147,117,43,1)",
  "2006-2008-gain"   => "srgba(153,104,43,1)",
  "2008-2009-gain"   => "srgba(104,79,33,1)",
  "2009-2010-gain"   => "srgba(114,79,33,1)",
  "1932-1956-loss"   => "srgba(137,0,0,1)",
  "1956-1973-loss"   => "srgba(239,71,84,1)",
  "1973-1975-loss"   => "srgba(211,94,43,1)",
  "1975-1977-loss"   => "srgba(219,132,35,1)",
  "1977-1985-loss"   => "srgba(229,165,25,1)",
  "1985-1988-loss"   => "srgba(255,198,17,1)",
  "1988-1990-loss"   => "srgba(244,242,10,1)",
  "1990-1995-loss"   => "srgba(168,255,255,1)",
  "1995-1998-loss"   => "srgba(2,191,201,1)",
  "1998-1999-loss"   => "srgba(5,163,229,1)",
  "1999-2002-loss"   => "srgba(10,130,234,1)",
  "2002-2004-loss"   => "srgba(76,30,242,1)",
  "2004-2006-loss"   => "srgba(198,153,239,1)",
  "2006-2008-loss"   => "srgba(168,38,204,1)",
  "2008-2009-loss"   => "srgba(130,51,137,1)",
  "2009-2010-loss"   => "srgba(107,7,168,1)"
}
```

Creating “land” *Crear “tierra”*

For each time period, create an image by combining land loss from the current period to the last period, and land gain from the first period to the current period

Por cada período de tiempo, crea una imagen para combinar pérdida de tierras de período corriente a período último, y aumento de tierras de período primer a período corriente

Buras, La.: 1932-2014



	Annual revenue (in \$ billions)	Jobs (in millions)
Oil and gas	62.7	107,000
Tourism	38.1	524,000
Commercial fishing	0.7	14,000
Total	101.5	645,000

SOURCE: U.S. ENERGY INFORMATION ADMINISTRATION; U.S. DEPARTMENT OF COMMERCE; U.S. BUREAU OF ECONOMIC ANALYSIS; U.S. BUREAU OF ECONOMIC ANALYSIS AND U.S. BUREAU OF OCEANOGRAPHY



Gulf of Mexico

A GEOGRAPHY OF OFFSHORE OIL

For the past half century, oil has driven the economy of the Gulf of Mexico. A third of U.S. oil production flows from nearly 3,500 platforms in the Gulf, with thousands of miles of pipeline delivering oil and natural gas to shore. Since the first Gulf well was drilled off Louisiana in 1938, in less than 15 feet of water, close-in reserves have been depleted and exploration has marched off the continental shelf, onto the continental slope, and beyond. Today Gulf oil is deep oil; the bulk of U.S. production draws from wells in more than a thousand feet of water. U.S. Gulf oil reserves are estimated at 44.9 billion barrels, but as the *Deepwater Horizon* disaster showed, the challenges of deep drilling are formidable.



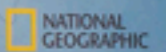
MEXICO'S OIL DROP
Daily output of Pemex, the state-owned monopoly, hit 3.4 million barrels in 2004 but has fallen to 2.8 million. The drop is blamed on poor management and declining close-in reserves. Three-quarters of the oil comes from the Gulf, where Mexico has estimated reserves of at least 11.2 billion barrels. Oil and gas sales fund a third of the federal budget; the U.S. is the top importer.

IXTOC 1 OIL SPILL
Mexico's Ixtoc 1 well blew out in the Bay of Campeche in 1979 and flowed for 295 days. Some 3.5 million barrels of oil fouled hundreds of miles of shore as far as Padre Island, Texas. Most habitat recovered, but three-inch-thick tar mats remain in some lagoons. Ixtoc 1 ranked as the world's largest accidental marine spill until it was surpassed by Macondo.

DEEPWATER DISASTER
Working in 5,000 feet of water, the Deepwater Horizon rig had drilled 13,000 feet into the seabed when the exploratory Macondo well blew out on April 20, 2010. The explosion and fire sank the 56,000-ton mobile rig, killing 11 workers. An estimated 4.9 million barrels of oil flowed from the well, creating the worst accidental marine oil spill in history.

U.S. PLATFORMS
A wilderness city of oil rigs rises off the coasts of Texas, Louisiana, Alabama, and Mississippi—but not Florida. Exploration off the Florida coast, starting in the 1940s, yielded largely dry holes, and the potential threat to the state's top industry, tourism, has been considered too great a risk.

- Map Legend**
- Coastal wetland
 - Coastal protected area
 - Active federal lease as of March 2008
 - Shallow water
 - Deep water (3,000 to 4,999 feet)
 - Ultradeep water (5,000 feet or more)
 - Oil or gas offshore platform
 - Oil or gas well
 - Onshore oil or gas terminal
 - Oil refinery
 - Oil or gas-related pipeline
 - Maritime boundary
 - Planning area boundary



NATIONAL GEOGRAPHIC SOCIETY

National Geographic Society
 Gilbert M. Grosvenor, Chairman
 John M. Fahey, Jr., President and CEO
 Chris Johns, Editor in Chief
 Arthur S. Welford, Director of Maps
 National Geographic Magazine

- Home
- Europe
- Latin America

MY LIBRARY

- My map
- My guides 2
- I want to hike 0
- I've hiked 0
- My hikes



[View guide](#) [Back to overview](#)

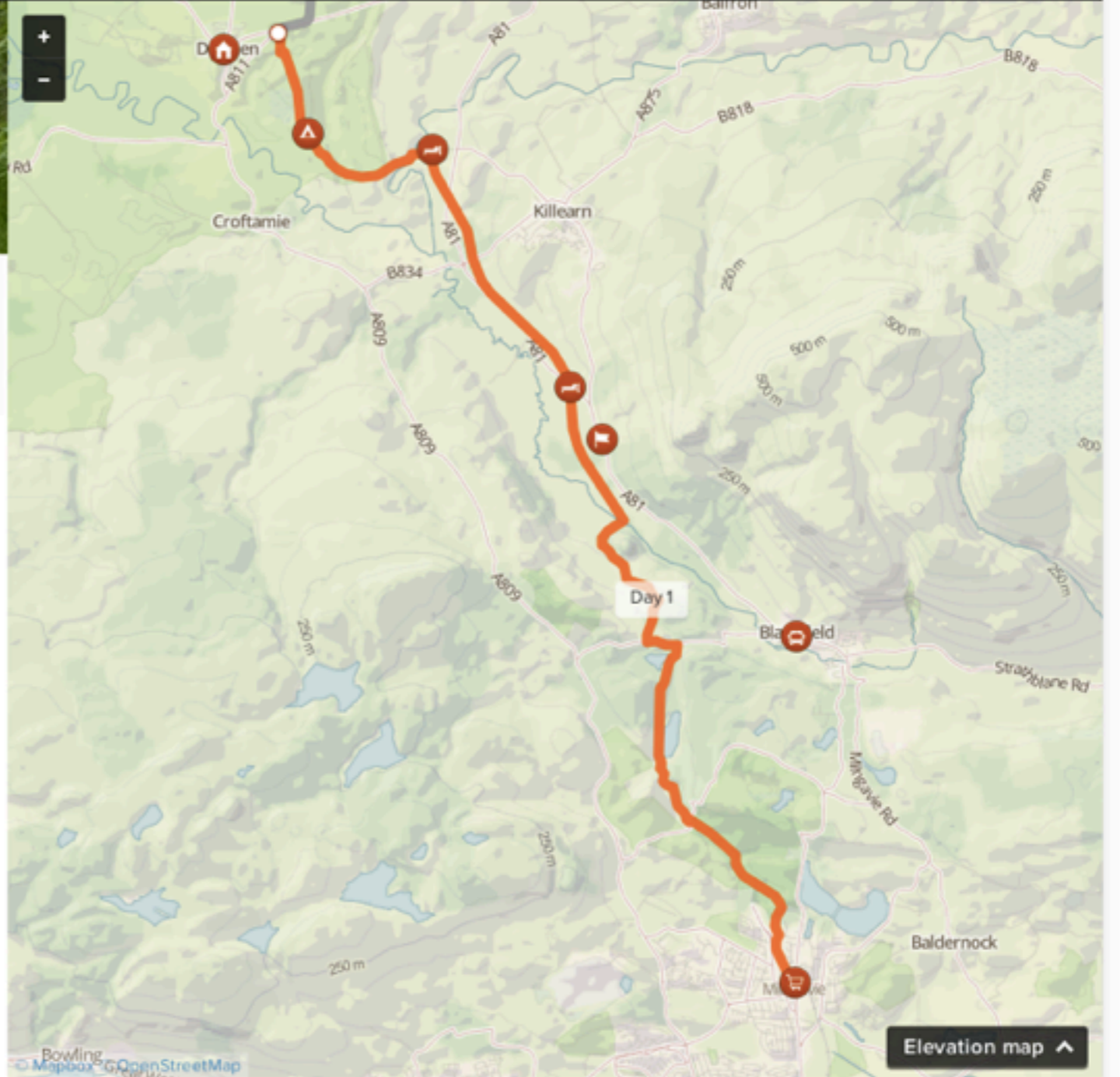
DAY 1 Milngavie to Drymen

5 Hours / 19 km ▲ 419 m ▼ 307 m

Today	Tomorrow	Wednesday	Thursday
14° / 11°	20° / 9°	20° / 10°	17° / 14°

Looking at the map, the first couple of hours of the West Highland Way may not look that promising. The first day the trail keeps close to roads and buildings of all sorts. Please, don't trust this first impression. Most of the time, the West Highland Way cleverly avoids the bustle of the outskirts of Glasgow. It also feels right. You're leaving Milngavie behind and with it the routines and hassle - or maybe even stress - of your daily life.

If you need supplies (like I did coming straight from Glasgow Airport) head over to The Iron Chef, a small hardware store just 50 meters



projects.propublica.org/louisiana

Losing Ground

projects.propublica.org/louisiana/

PRO PUBLICA THE LENS+ Losing Ground

DONATE TO PROPUBLICA DONATE TO THE LENS

PAST / PRESENT AN ENGINEERED COAST AN UNCERTAIN FUTURE

1922 2014 LEVEES CANALS OIL/GAS SEVERE MODERATE

1922

Over 7,000 years, the deltas of the Mississippi River created all of southern Louisiana, including vast coastal wetlands covering 6,000 square miles – the Amazon of North America. In the 1930s, coastal Louisiana was about 25% bigger than it is now. About 1,883 square miles are gone, according to the USGS.

Source: USGS via Louisiana State University

Louisiana is drowning, quickly.

In just 80 years, some 2,000 square miles of its coastal landscape have turned to open water, wiping places off maps, bringing the Gulf of Mexico to the back door of New Orleans and posing a lethal threat to an energy and shipping corridor vital to the nation's economy.

And it's going to get worse, even quicker.

Scientists now say one of the greatest environmental and economic disasters in the nation's history is rushing toward a catastrophic conclusion over the next 50 years, so far unabated and largely unnoticed.

At the current rates that the sea is rising and land is sinking, National Oceanic and Atmospheric Administration scientists say by 2100 the Gulf of Mexico could rise as much as 4.3 feet across this landscape, which has an average elevation of about 3 feet. If that happens, everything outside the protective levees — most of Southeast Louisiana — would be underwater.

Explore Delacroix, La.

projects.propublica.org/louisiana



Louisiana is drowning, quickly.

In just 80 years, some 2,000 square miles of its coastal landscape have turned to open water, wiping places off maps, bringing the Gulf of Mexico to the back door of New Orleans and posing a lethal threat to an energy and shipping corridor vital to the nation's economy.

And it's going to get worse, even quicker.

Scientists now say one of the greatest environmental and economic disasters in the nation's history is rushing toward a catastrophic conclusion over the next 50 years, so far unabated and largely unnoticed.

At the current rates that the sea is rising and land is sinking, National Oceanic and Atmospheric Administration scientists say by 2100 the Gulf of Mexico could rise as much as 4.3 feet across this landscape, which has an average elevation of about 3 feet. If that happens, everything outside the protective levees — most of Southeast Louisiana — would be underwater.

[Explore Delacroix, La.](#)

projects.propublica.org/louisiana

Losing Ground

projects.propublica.org/louisiana/

PRO PUBLICA THE LENS Losing Ground

DONATE TO PROPUBLICA DONATE TO THE LENS

PAST / PRESENT 1922 2014

AN ENGINEERED COAST LEVEES CANALS OIL/GAS

AN UNCERTAIN FUTURE SEVERE MODERATE

Levees

After the Great Mississippi Flood of 1927, which displaced 700,000 people from Illinois to New Orleans, Congress called for a system of levees to protect communities. This cut off the river from its delta. Starved of sediment and freshwater, the land in the delta has been drying out, decomposing and sinking at one of the fastest rates on the planet.

Source: National Hydrography Dataset (USGS)

Louisiana is drowning, quickly.

In just 80 years, some 2,000 square miles of its coastal landscape have turned to open water, wiping places off maps, bringing the Gulf of Mexico to the back door of New Orleans and posing a lethal threat to an energy and shipping corridor vital to the nation's economy.

And it's going to get worse, even quicker.

Scientists now say one of the greatest environmental and economic disasters in the nation's history is rushing toward a catastrophic conclusion over the next 50 years, so far unabated and largely unnoticed.

At the current rates that the sea is rising and land is sinking, National Oceanic and Atmospheric Administration scientists say by 2100 the Gulf of Mexico could rise as much as 4.3 feet across this landscape, which has an average elevation of about 3 feet. If that happens, everything outside the protective levees — most of Southeast Louisiana — would be underwater.

Explore Delacroix, La.

projects.propublica.org/louisiana

projects.propublica.org/louisiana/

PRO PUBLICA THE LENS Losing Ground

PAST / PRESENT 1922 2014

AN ENGINEERED COAST LEVEES CANALS OIL/GAS

AN UNCERTAIN FUTURE SEVERE MODERATE

Canals

The sinking that started with the levees went into overdrive after more than 10,000 miles of — canals were dredged to reach oil and gas wells. Researchers say this vast spiderweb of canals, only a portion of which is shown here due to the lack of available data, is responsible for up to 60 percent of the wetlands lost since the 1930s.

Source: A. Tweel, Louisiana State University, 2013

Louisiana is drowning, quickly.

In just 80 years, some 2,000 square miles of its coastal landscape have turned to open water, wiping places off maps, bringing the Gulf of Mexico to the back door of New Orleans and posing a lethal threat to an energy and shipping corridor vital to the nation's economy.

And it's going to get worse, even quicker.

Scientists now say one of the greatest environmental and economic disasters in the nation's history is rushing toward a catastrophic conclusion over the next 50 years, so far unabated and largely unnoticed.

At the current rates that the sea is rising and land is sinking, National Oceanic and Atmospheric Administration scientists say by 2100 the Gulf of Mexico could rise as much as 4.3 feet across this landscape, which has an average elevation of about 3 feet. If that happens, everything outside the protective levees — most of Southeast Louisiana — would be underwater.

Explore Delacroix, La.

projects.propublica.org/louisiana

Losing Ground

projects.propublica.org/louisiana/

PRO PUBLICA THE LENS Losing Ground

DONATE TO PROPUBLICA DONATE TO THE LENS

PAST / PRESENT 1922 2014

AN ENGINEERED COAST LEVEES CANALS OIL/GAS

AN UNCERTAIN FUTURE SEVERE MODERATE

Oil & Gas

As the levees were completed in the 1930s a nascent energy industry discovered oil and gas fields below the marshes and swamps. A largely unregulated rush for oil and gas led to 50,000 wells in the coastal zone. After the wetlands were tapped out, the industry moved farther into the Gulf, laying pipes to carry oil and gas back onshore.

Source: La. Dept. of Natural Resources; LSU CADGIS, Pipelines: Bureau of Ocean Energy Management

Louisiana is drowning, quickly.

In just 80 years, some 2,000 square miles of its coastal landscape have turned to open water, wiping places off maps, bringing the Gulf of Mexico to the back door of New Orleans and posing a lethal threat to an energy and shipping corridor vital to the nation's economy.

And it's going to get worse, even quicker.

Scientists now say one of the greatest environmental and economic disasters in the nation's history is rushing toward a catastrophic conclusion over the next 50 years, so far unabated and largely unnoticed.

At the current rates that the sea is rising and land is sinking, National Oceanic and Atmospheric Administration scientists say by 2100 the Gulf of Mexico could rise as much as 4.3 feet across this landscape, which has an average elevation of about 3 feet. If that happens, everything outside the protective levees — most of Southeast Louisiana — would be underwater.

Explore Delacroix, La.

projects.propublica.org/louisiana

projects.propublica.org/louisiana/

PRO PUBLICA THE LENS Losing Ground

PAST / PRESENT 1922 2014

AN ENGINEERED COAST LEVEES CANALS OIL/GAS

AN UNCERTAIN FUTURE SEVERE MODERATE

An Uncertain Future: Severe Scenario

The USGS says an additional 1,806 square miles — almost a third of the remaining coastal wetlands — could disappear if the state's massive coastal restoration plan isn't implemented and land-loss accelerates due to sea-level rise, subsidence and other factors.

30 km
20 mi

Source: USGS/Louisiana Coastal Protection and Restoration Authority

Louisiana is drowning, quickly.

In just 80 years, some 2,000 square miles of its coastal landscape have turned to open water, wiping places off maps, bringing the Gulf of Mexico to the back door of New Orleans and posing a lethal threat to an energy and shipping corridor vital to the nation's economy.

And it's going to get worse, even quicker.

Scientists now say one of the greatest environmental and economic disasters in the nation's history is rushing toward a catastrophic conclusion over the next 50 years, so far unabated and largely unnoticed.

At the current rates that the sea is rising and land is sinking, National Oceanic and Atmospheric Administration scientists say by 2100 the Gulf of Mexico could rise as much as 4.3 feet across this landscape, which has an average elevation of about 3 feet. If that happens, everything outside the protective levees — most of Southeast Louisiana — would be underwater.

Explore Delacroix, La.

projects.propublica.org/louisiana

projects.propublica.org/louisiana/#buras

THE LENS+ Losing Ground

LAND CHANGE SINCE 1932

Year	1930	1940	1950	1960	1970	1980	1990	2000	2010
Percentage Change	0%	~10%	~20%	~30%	~40%	~50%	~60%	~70%	~80%

3 km
3 mi

• Point of interest
• Gone

New Orleans

Source: NASA, USGS

INTRO PREVIOUS ALL LOCATIONS NEXT

Buras

Fishing in the land of used-to-be's

Ryan Lambert, 56, owner/operator of Cajun Fishing Adventures in Buras, Louisiana, stands in front of the pilings that are the only reminders of what once was a row of fishing camps surrounded by thick marshes. (Ellis Lucia for ProPublica/The Lens)

As late as 2013, those heading to the Gulf of Mexico from Buras would have to boat across Bay Pomme D'Or, English Bay, Bay Jacquin, Cyprien Bay and Scofield Bay before reaching his destination.

Ryan Lambert, fishing guide: Saltwater

projects.propublica.org/louisiana

projects.propublica.org/louisiana/#buras

ProPublica THE LENS Losing Ground

1930 1940 1950 1960 1970 1980 1990 2000 2010

LAND CHANGE SINCE 2009

100% 50% 0

Drakes Bay
Buras-Triumph
Buras Designated
Buras
Bayou Long
Bay Cheb
Bay Pomme d'Or
Little Bay Pomme d'Or
Bayou La Chute
English Bay
Bayou Auguste
Bayou le Boon
Bay Jacquin
Cyprien Bay
Dry Cypress Bayou
English Bayou
Bay Crapaud
Skipjack Bay
Scofield Bay
Mitchell Cut camps
Pelican Island loss and restoration

3 km
3 mi

Point of interest
Gone

New Orleans

Source: NASA, USGS

Reader

DONATE TO PROPUBLICA DONATE TO THE LENS

INTRO PREVIOUS ALL LOCATIONS NEXT

Buras

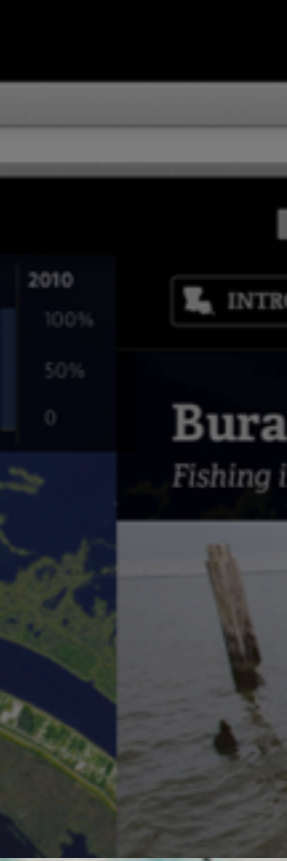
Fishing in the land of used-to-be's

Ryan Lambert, 56, owner/operator of Cajun Fishing Adventures in Buras, Louisiana, stands in front of the pilings that are the only reminders of what once was a row of fishing camps surrounded by thick marshes. (Ellis Lucia for ProPublica/The Lens)

As late as 2013, those heading to the Gulf of Mexico from Buras would have to boat across Bay Pomme D'Or, English Bay, Bay Jacquin, Cyprien Bay and Scofield Bay before reaching his destination.

Ryan Lambert, fishing guide: Saltwater

projects.propublica.org/louisiana



Lambert, fishing guide: Saltwater

3 km
3 mi



Anthony Bejarano
@AntBejarano



 Follow

That ProPublica/The Lens report on the sinking Louisiana coastline makes me want to curl up in a ball and die, honestly.
[#LosingGround](#)

 Reply  Retweet  Favorite  More

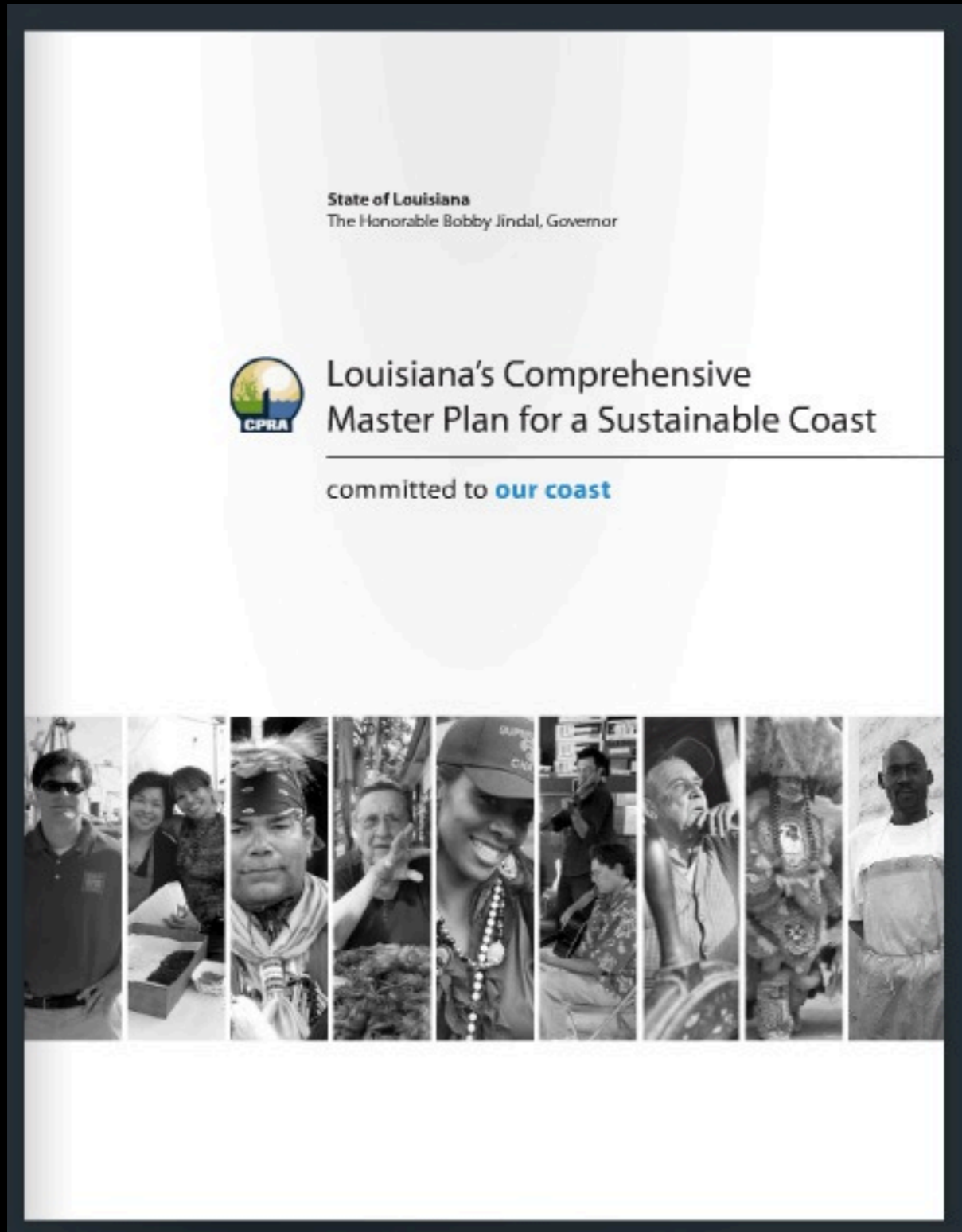
8:03 AM - 30 Aug 2014



Reply to [@AntBejarano](#)

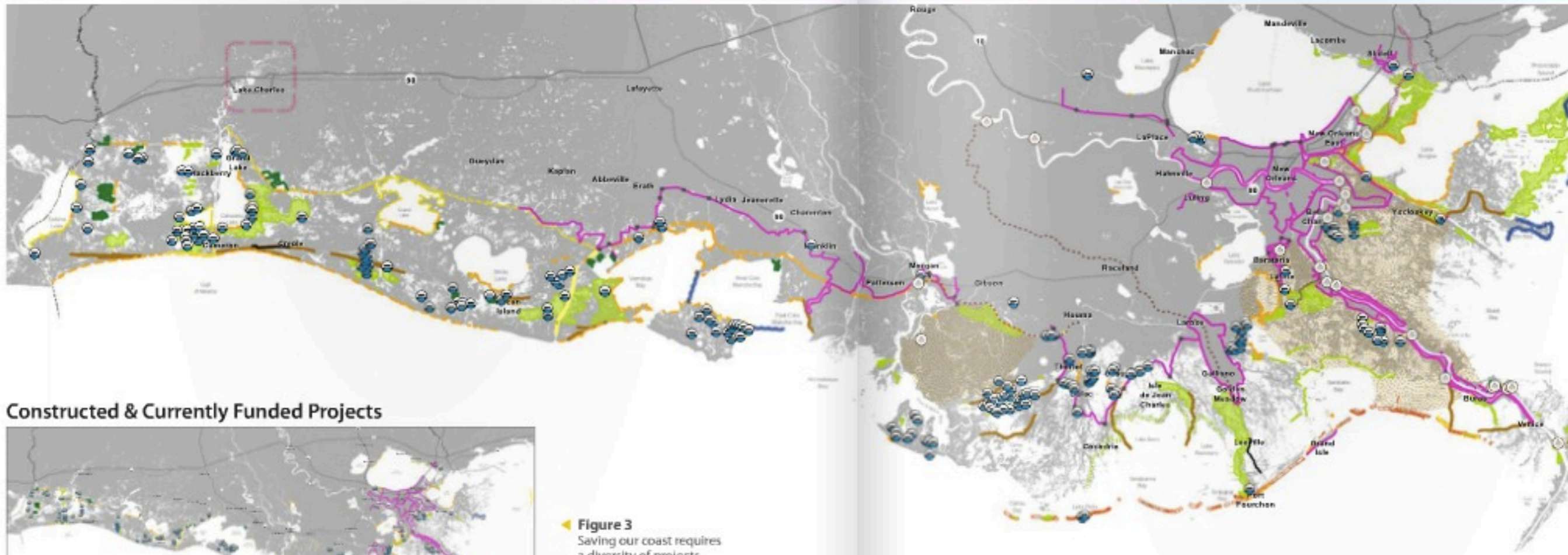
Part 2: A possible solution?

¿Hay una solución?

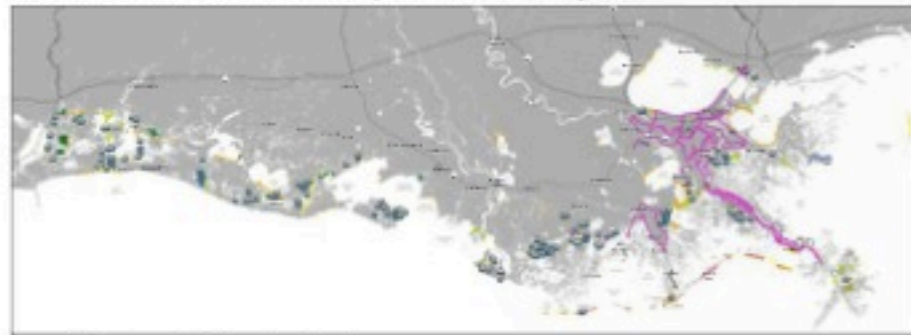


Responding to the Crisis

Louisiana's Coastal Program: Past, Present, and Future



Constructed & Currently Funded Projects



2012 Coastal Master Plan: Future Projects



Figure 3
 Saving our coast requires a diversity of projects throughout our communities. The smaller map to the left (upper) shows projects that have been or are being constructed. The map to the left (lower) shows future projects in the 2012 Coastal Master Plan. The large map combines both sets of projects to show the complete scope of the state's work for Louisiana's coast.

Project Types



Two main strategies

Dos estrategias principales

Marsh Creation: Lake Hermitage

Creación de pantanos: Lake Hermitage



Sediment Diversions: West Bay

Desviación de sedimentos: West Bay





Me

Yo



Problem: Images from 2012—now

Problema: Imágenes desde 2012 hasta ahora

Lake Hermitage



Lake Hermitage



2008 2012 2014

Pointe à la Hache

Lake Hermitage

C

B

A

1 km
3000 ft

2008 2012 2014

Lake Hermitage

pumped sediment

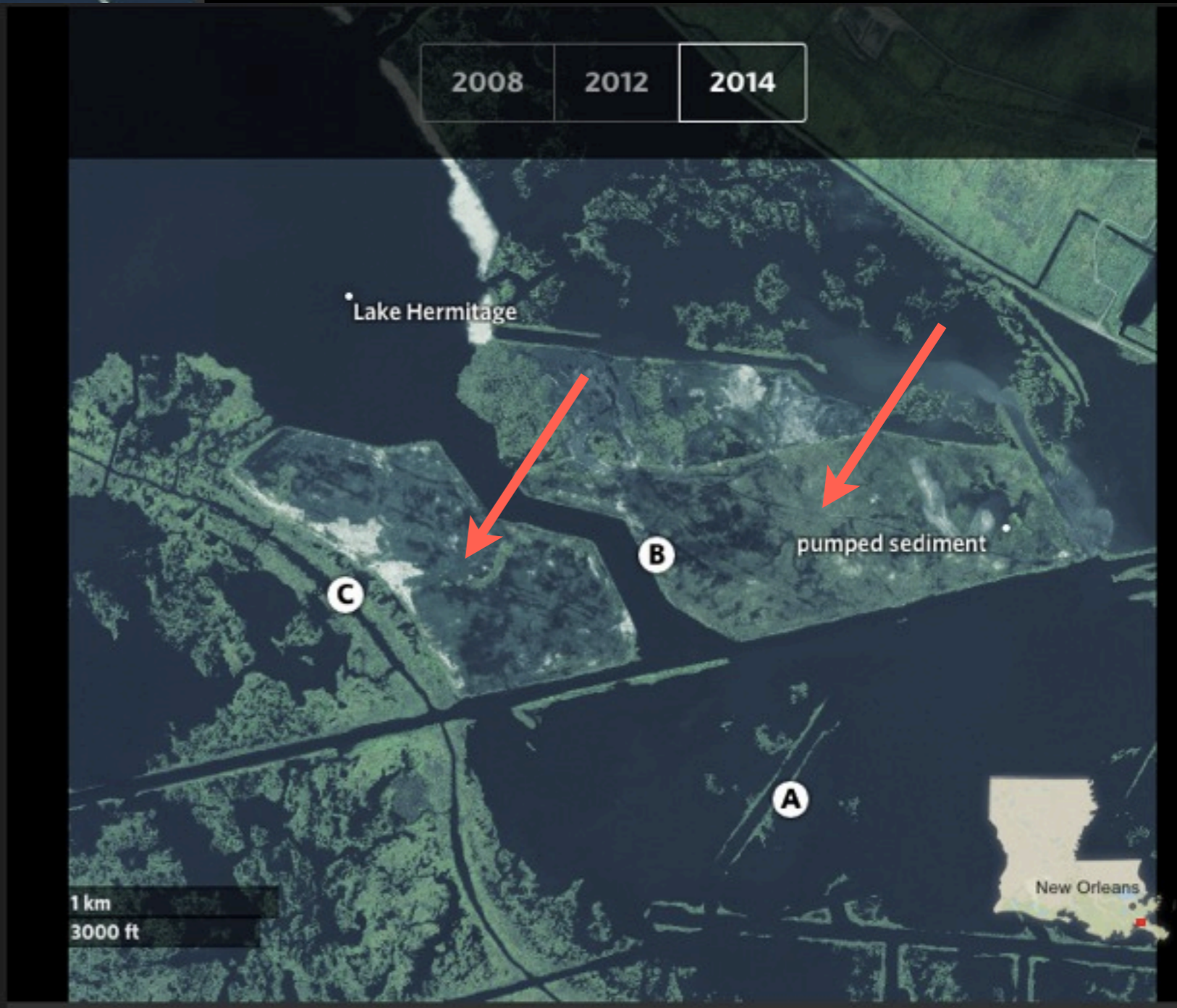
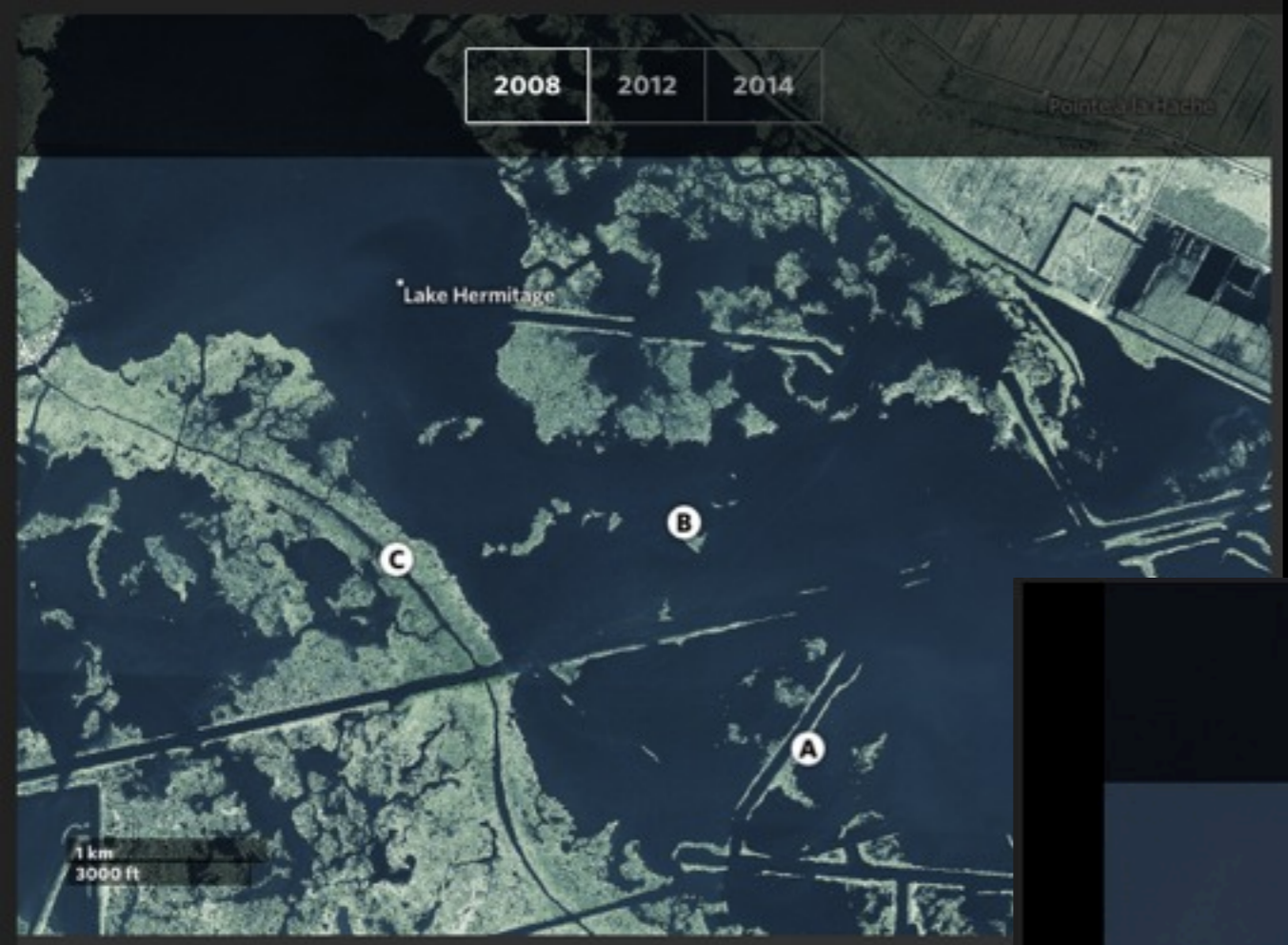
C

B

A

1 km
3000 ft

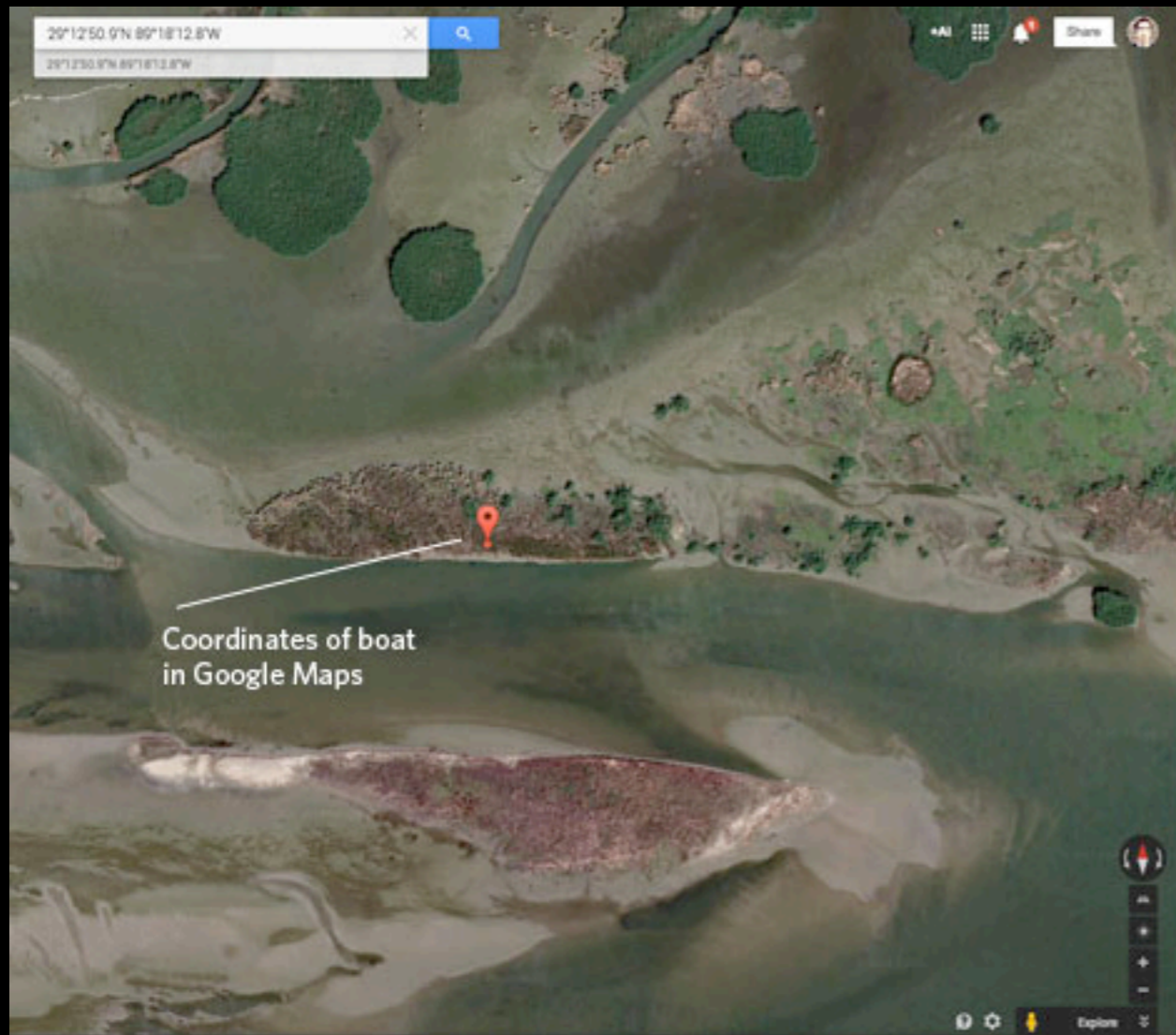
New Orleans



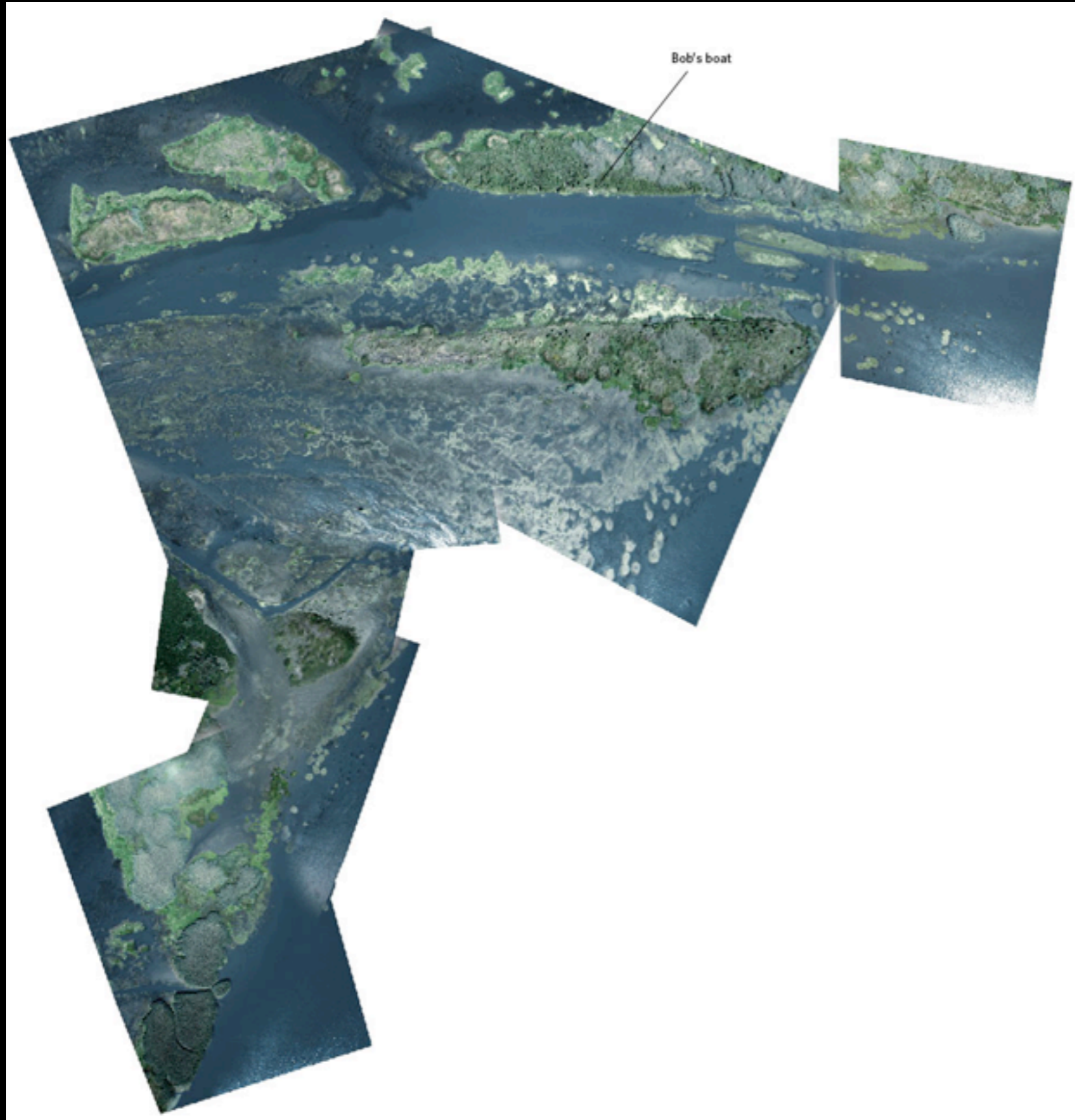
West Bay Diversion



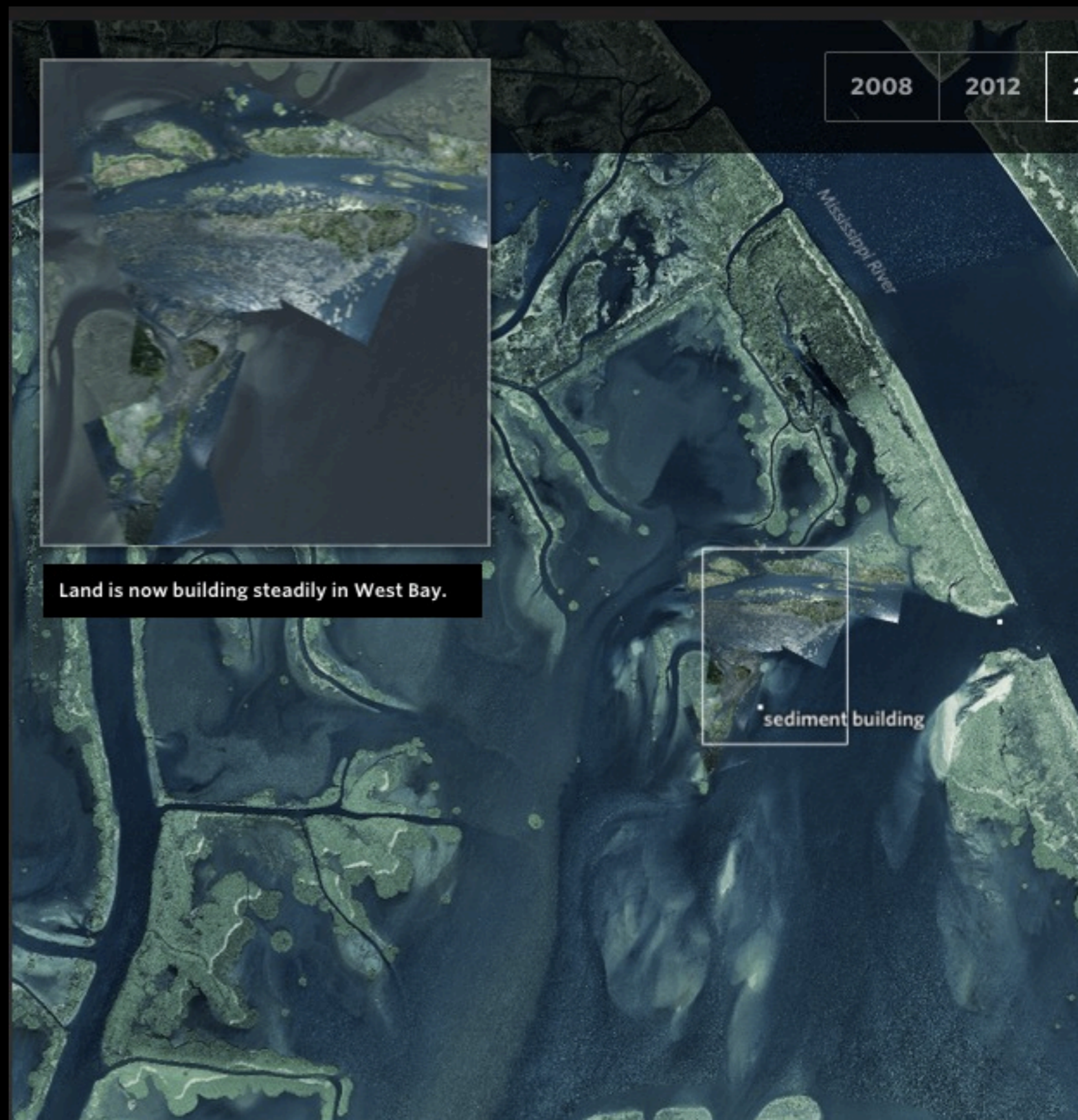
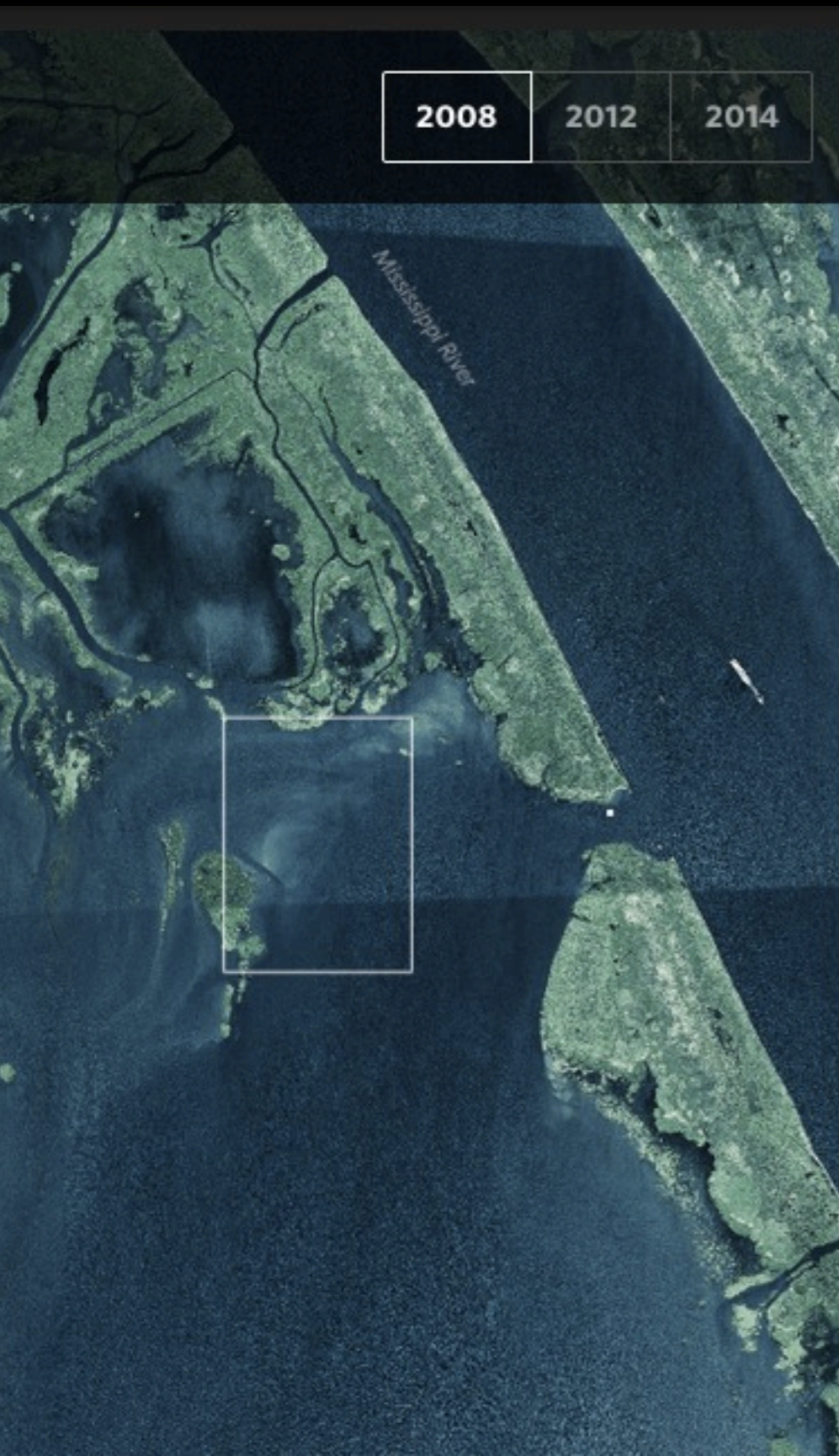
West Bay Diversion



West Bay Diversion



West Bay Diversion



projects.propublica.org/larestoration



Sediment and freshwater would be diverted from the Mississippi to build denser wetlands on both sides of the river to dampen storm surges and protect fish habitat.

The \$12.9 billion Morganza to the Gulf project would build 98 miles of levees to protect southern Terrebonne and Lafourche parishes.

The Biloxi Marsh and the New Orleans East Land Bridge help reduce storm surge as hurricanes approach New Orleans. The state plans to spend about \$3.5 billion in the next several decades to restore and preserve them.

A \$3.6 billion project would create marsh to protect La. Highway 1, which connects the oil industry hub of Port Fourchon to the nation.

Most of the Bird's Foot Delta will be sacrificed because projects upstream will divert wetland-building sediment to protect New Orleans.

Gulf of Mexico

Bird's Foot Delta

Mississippi River

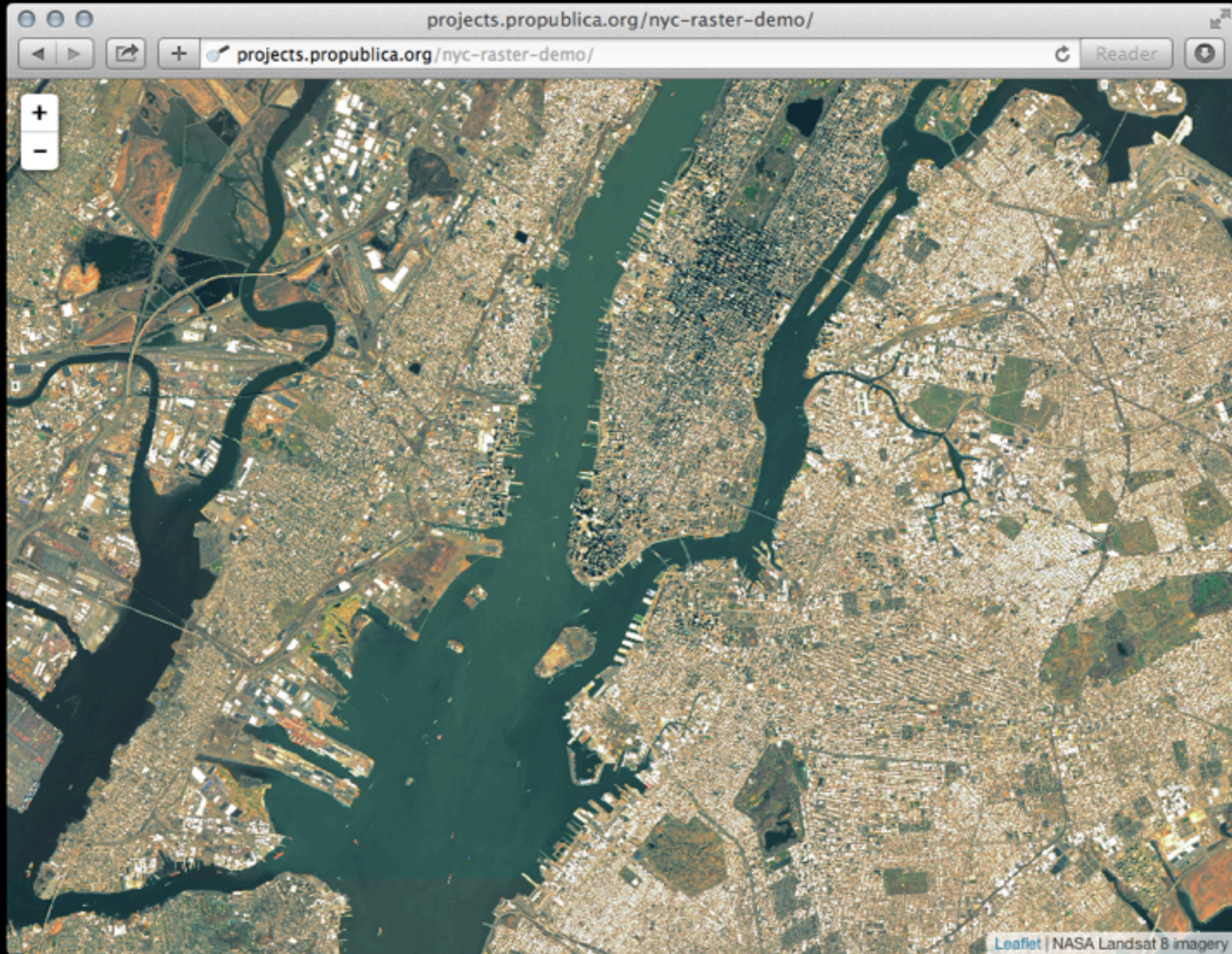
Golden Meadow

Port Fourchon

Houma

New Orleans

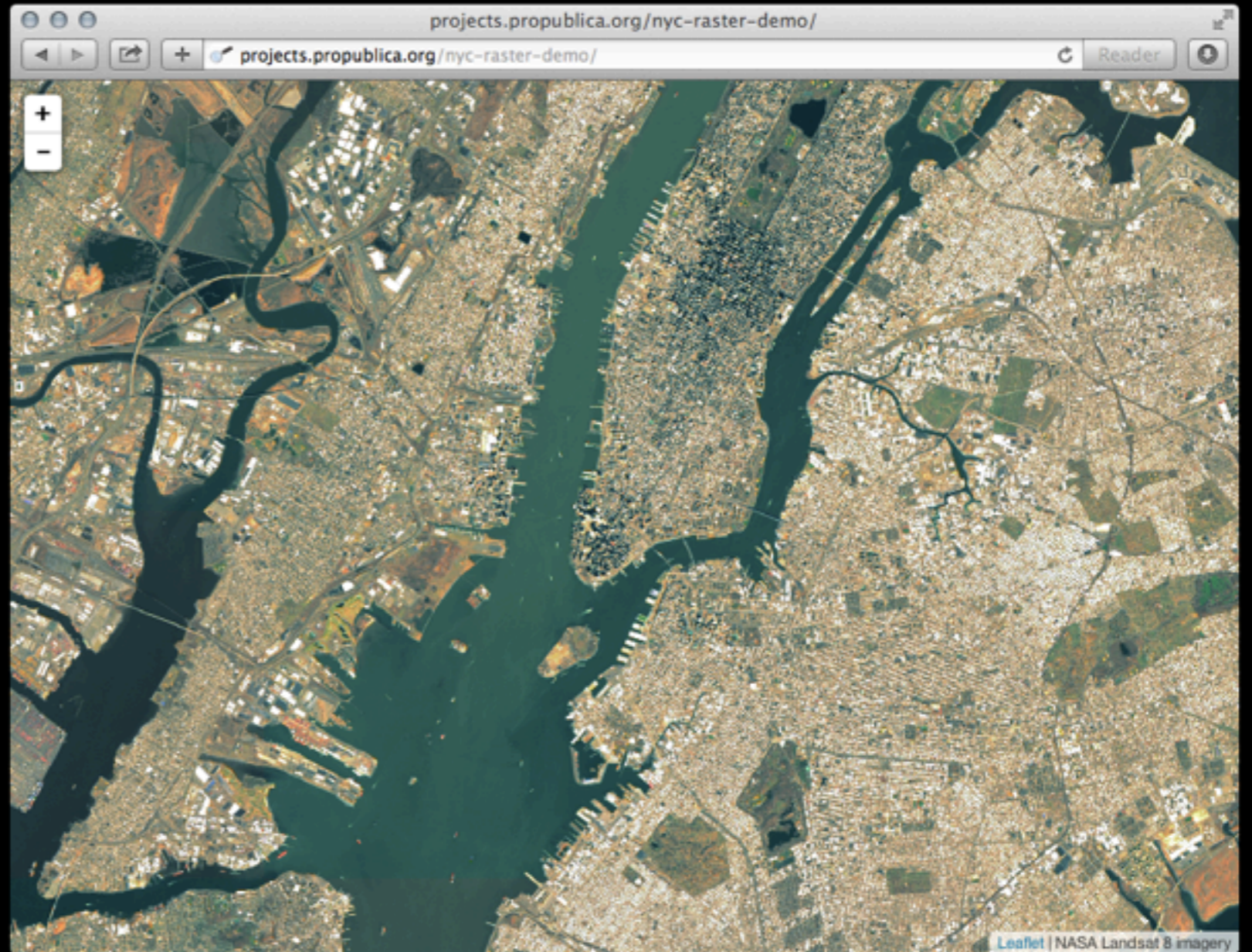
It's easier than you think



Es más fácil de lo que piensan

5 Lines of Code

5 Lineas de código



```
get '/tiles/:x/:y/:z.png' do
  content_type 'image/png'
  map = SimplerTiles::Map.new do |m|
    m.slippy params[:x].to_i, params[:y].to_i, params[:z].to_i
    m.raster_layer "nyc.tif"
  end
  map.to_png
end
```

<http://j.mp/straster>

Thank you!

¡Gracias!

al.shaw@propublica.org

@A_L