

News Applications at ProPublica

Al Shaw

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@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 with a dark blue header. The header includes the ProPublica logo, a navigation bar with links to "Fracking", "Dollars for Docs", "Surveillance", "Patient Safety", "Prescriber Checkup", "Debt Inc.", "990s", and "Assisted Living", a "DONATE" button, and a search bar. Below the header, there's a large magnifying glass icon next to the text "PRO PUBLICA" and "Journalism in the Public Interest". To the right, there's a "SUBSCRIBE" button and a form for receiving top stories daily via email. At the bottom, there's a navigation menu with links to "Home", "Our Investigations", "Tools & Data", "MuckReads", "Get Involved", and "About Us", along with social media links for Facebook and Twitter, and a search bar.

Surveillance

full coverage »

MAJOR PROJECTS

see all »

Tools & Data

Instrumentos y datos

The screenshot shows the ProPublica website homepage. A red arrow points to the 'Tools & Data' link in the navigation bar. The page features a dark blue header with the ProPublica logo, a search bar, and social media links. Below the header, there's a main navigation bar with links like 'Home', 'Our Investigations', 'Tools & Data', 'MuckReads', 'Get Involved', and 'About Us'. The main content area includes sections for 'Surveillance' and 'MAJOR PROJECTS'.

www.propublica.org

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Government Standards Agency "Strongly" Suggests Dropping its Own Encryption

MAJOR PROJECTS see all »

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 nulos

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

Far Lejos

Lede →
Principio
Nut →
Resumen



The Opportunity Gap

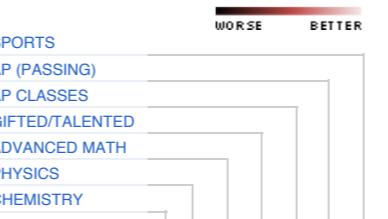
Is Your State Providing Equal Access to Education?

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 can help students succeed. 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...



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



RESET

Find a School

Your Address, ZIP, or school name

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

CONNECT TO foursquare

Connect schools get stats

Latest Local Stories Based on ZIP Code

Univision: Problemas Escolares: Escuelas Reprueban

Virginian-Pilot: In Norfolk, newest teacher

Boise State Public Radio: Students Who Do Well In Idaho

Faribault Daily News: Faribault Schools AP opportunities

Shawnee Dispatch: As student bodies have trouble finding minority candidates

California Watch: Low-income students

NBC New York: AP Opportunity Gap: Fewer College-Prep Courses

StateImpact Ohio: Why the Feds are Increasingly Interested in Public Schools

C-Ville Weekly: Feed your head

The Reporter: Study shows area districts' state averages

ProPublica intern Sergio Hernandez continues his project.

Source: U.S. Department of Education

Journalism in the Public Interest



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Opportunity Gap

Equal Access to Education?

By [A 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 -- provide unequal access to advanced classes that researchers say will help them later in life. | [Read more](#) | [AP enrollment rates](#) and [sports participation](#) | Related: [About the Data and Our Analysis](#) ».

RESET

Find a School

Your Address, ZIP, or school name

Submit

For example, [1605 E. 55th St. Chicago, IL](#) or [77054](#) or [Stuyvesant High School](#)

CONNECT TO foursquare

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

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

School	AP PASS RATE	AP ENROLLMENT
N/A	~10%	~10%
N/A	~15%	~15%
N/A	~20%	~20%
N/A	~25%	~25%
N/A	~30%	~30%
N/A	~35%	~35%
N/A	~40%	~40%
N/A	~45%	~45%
N/A	~50%	~50%
N/A	~55%	~55%
N/A	~60%	~60%
N/A	~65%	~65%
N/A	~70%	~70%
N/A	~75%	~75%
N/A	~80%	~80%
N/A	~85%	~85%
N/A	~90%	~90%
N/A	~95%	~95%
N/A	~100%	~100%

Latest Local Stories Based on This Project

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

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

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



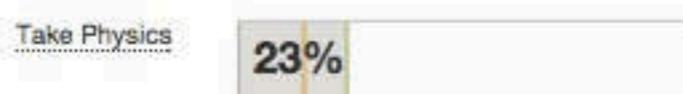
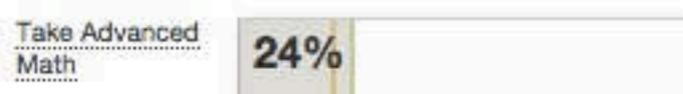
Share your observations (optional):

[Post here and to Facebook](#)

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

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

Percentage of relevant students who...



Districts with 3,000 or more students

State Average District Average

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.



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Compare Schools

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

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 Students **5%** Inexp. Teachers **5** 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 Lat...

459 BROADWAY
CAMBRIDGE, MASS.

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

Districts with 3,000 or more students

Medfield Medfield Senior High

88R SOUTH STREET
MEDFIELD, MASS.

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

Percentage of relevant students who...

Get Free/Reduced Price Lunch

1%

Take at Least One AP Course

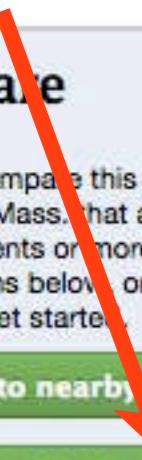
34%

AP Pass Rate

87%

Sports Participation

N/A



At a Glance

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

United Districts

Elementary Districts

Secondary Districts

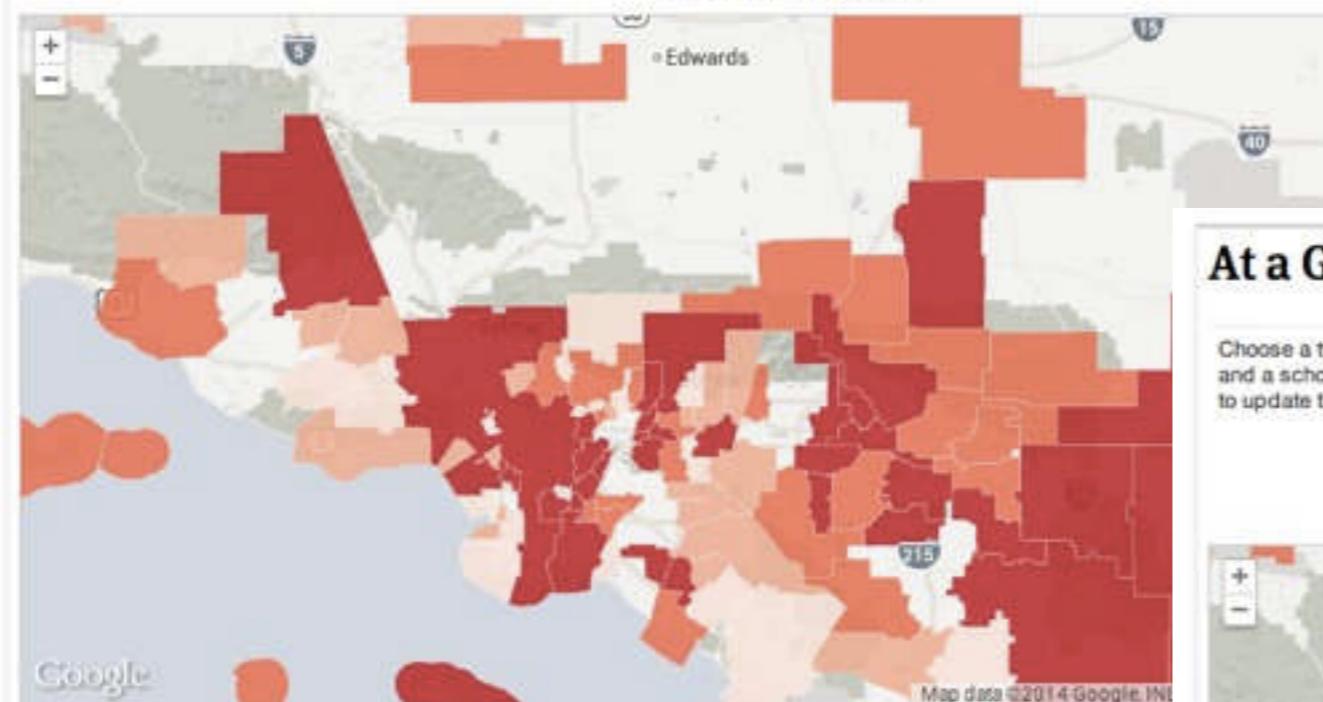
Free/Reduced Lunch

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.

United Districts

Elementary Districts

Secondary Districts

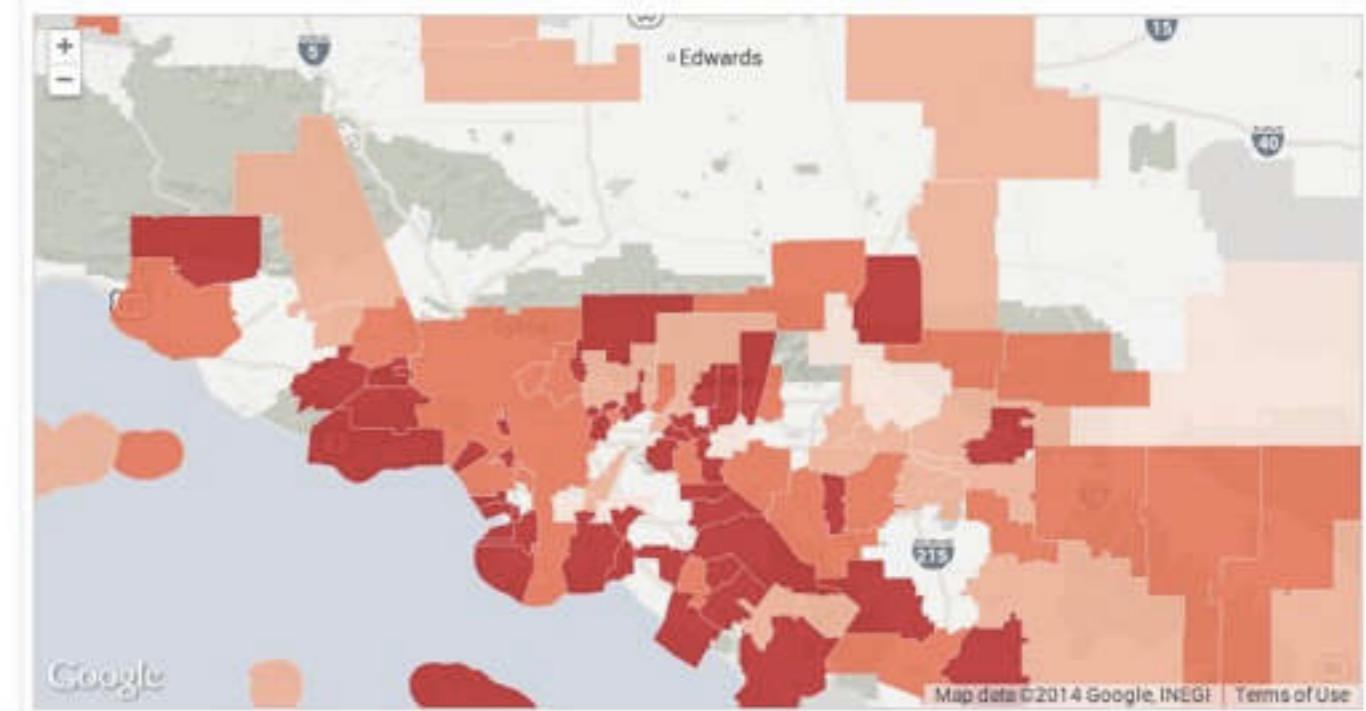
Free/Reduced Lunch

AP Enrollment

AP Pass Rate

Advanced Math Enrollment

Gifted/Talented Enrollment



*Dos visitas de
Sureste California*

Two views of
Southern California

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(Download [CSV](#))

School Districts in Calif.

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			



What's the story behind this data?

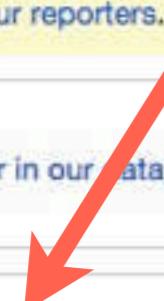
Please share any tips or local knowledge with our reporters.

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.



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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](#)

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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 screenshot shows a web browser window with the title "The ProPublica Data Store". The address bar displays the URL "https://projects.propublica.org/data-store/". The page features the ProPublica logo (a magnifying glass icon with the words "PRO PUBLICA") and the "Data Store" navigation link. The main heading is "The ProPublica Data Store". Below it, a paragraph explains the availability of datasets: raw data from FOIA requests is free, while cleaned-up datasets require purchase. A "Related Story »" link is provided. Three categories are listed: "Premium Datasets (Purchase)", "FOIA Data (Free)", and "External Data".

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



Small Graphic
66 Canal Center Plaza, Suite 555



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

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

The New York Times

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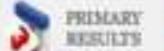
THE CAUCUS



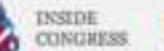
FIFTYTHREE EIGHT



G.O.P. CANDIDATES



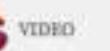
PRIMARY RESULTS



INSIDE CONGRESS



POLL WATCH



VIDEO

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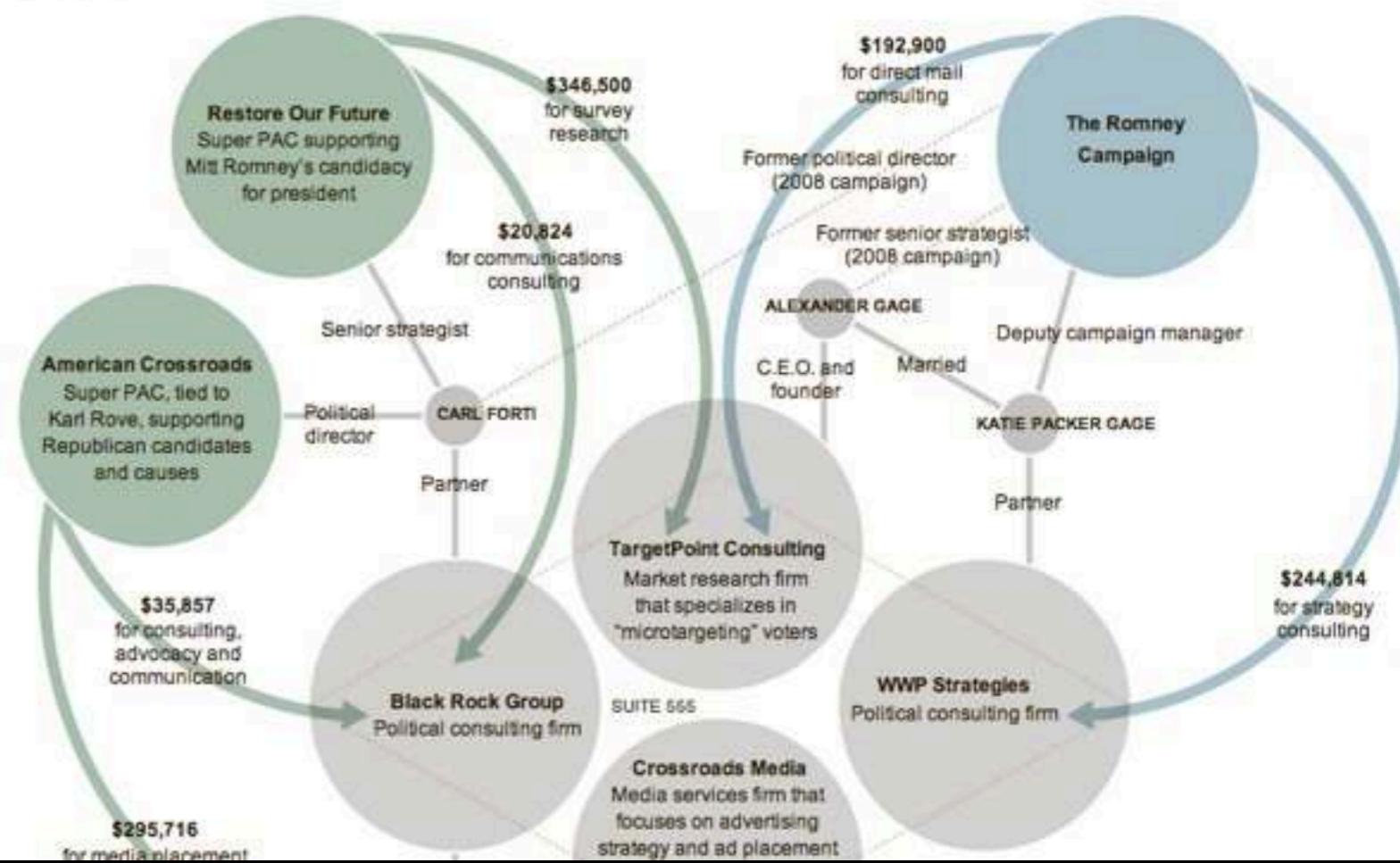
Published: February 25, 2012

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.

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426

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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](#).

CAMPAIGNS SUPER PACS

PAYEES

Search

Payments from

OBAMA FOR AMERICA: \$60,814,484

AB Data	\$16,009,079
Bully Pulpit Interactive LLC	\$12,270,038
ADP	\$6,959,537
GMMB Inc.	\$3,114,150
American Express	\$2,323,492
Telefund, Inc.	\$1,997,102
Blue State Digital, LLC	\$1,946,483
Financial Innovations	\$1,783,357
CDW Direct LLC	\$1,633,255
CyberSource Corporation	\$1,591,745
Integral Resources, Inc. 3rd Floor	\$1,377,906
Perkins Cole	\$1,258,917
Donor Services Group, LLC	\$843,293
Aetna	\$800,088
DCM	\$729,988
DNC Services Corporation	\$626,983
BFPRU I, LLC c/o Bentley Forbes Midwest	\$529,677
Gordon and Schwenkmeyer Inc Telemarketing	\$488,817
Harris Direct	\$465,671
The MIS Department, Inc.	\$419,192
PDR II DBA Share Share	\$377,222
AKPD Message & Media	\$359,710
Merkle Response Services, Inc.	\$345,792
Guggenheim Short Film	\$344,993
Travel Offset Account	\$229,457
PDO Printing	\$220,917
Meyer Teleservices	\$217,543
Interior Investments, LLC	\$198,597



Home Our Investigations

Campaign 2012

Campaign Ties, Self-D

by [Kim Barker](#) and [Al Shaw](#)
ProPublica, March 28, 2012,

April 20: This story ha

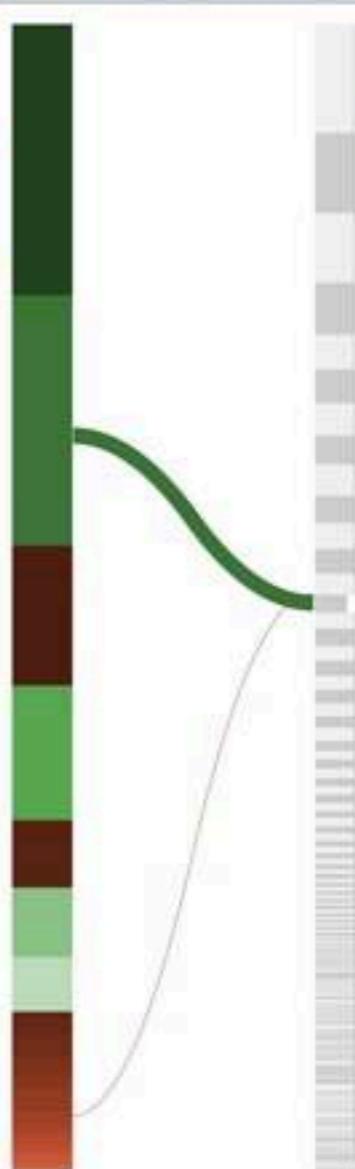
For an example of the fl finance rules, as well as connections between ca

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

14

9

103

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SimpleTiles



At a Glance

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

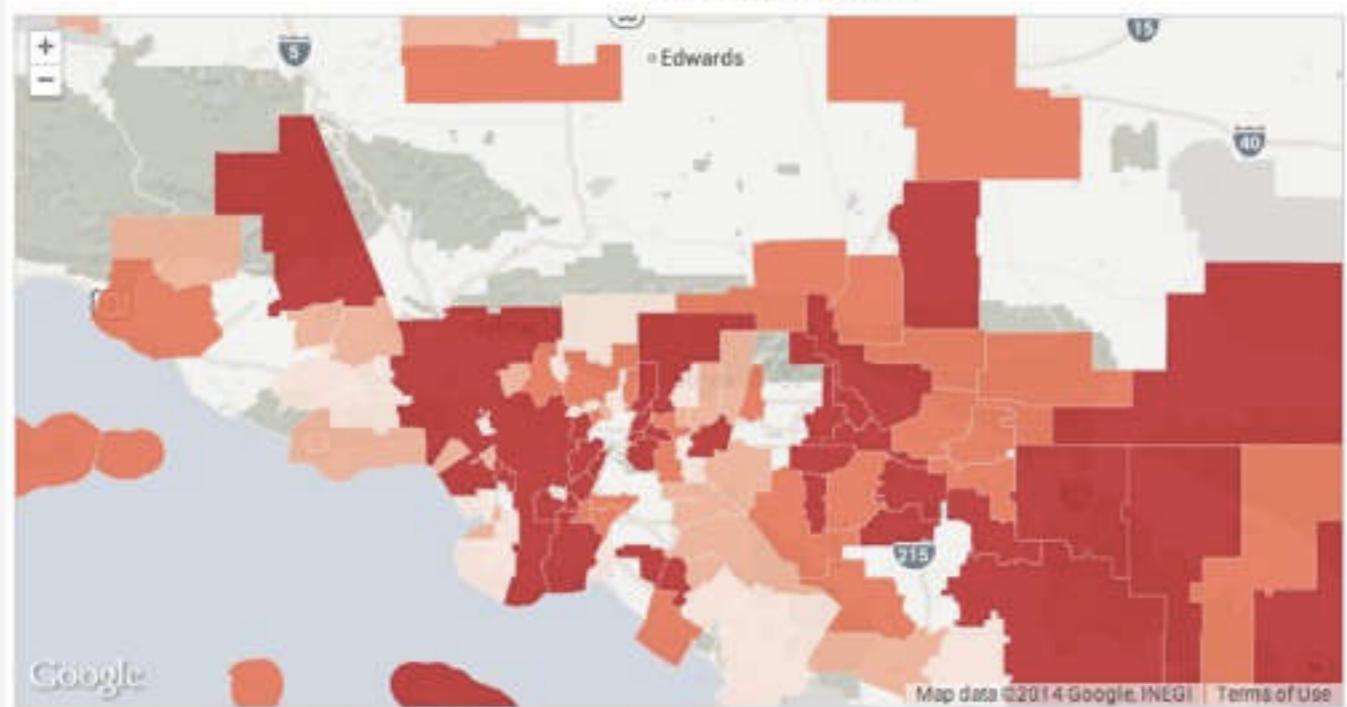
United Districts

Elementary Districts
Secondary Districts

Free/Reduced Lunch

AP Enrollment
AP Pass Rate
Advanced Math Enrollment
Gifted/Talented Enrollment

0% 20% 40% 60%



StateFace

HUFFPOST
POLITICS

ELECTION DASHBOARD

State ↑	Electoral votes	Obama
Alabama	9	
Alaska	3	
Arizona	11	
Arkansas	6	
California	55	
Colorado	9	
Connecticut	7	
Delaware	3	
District of Columbia	3	

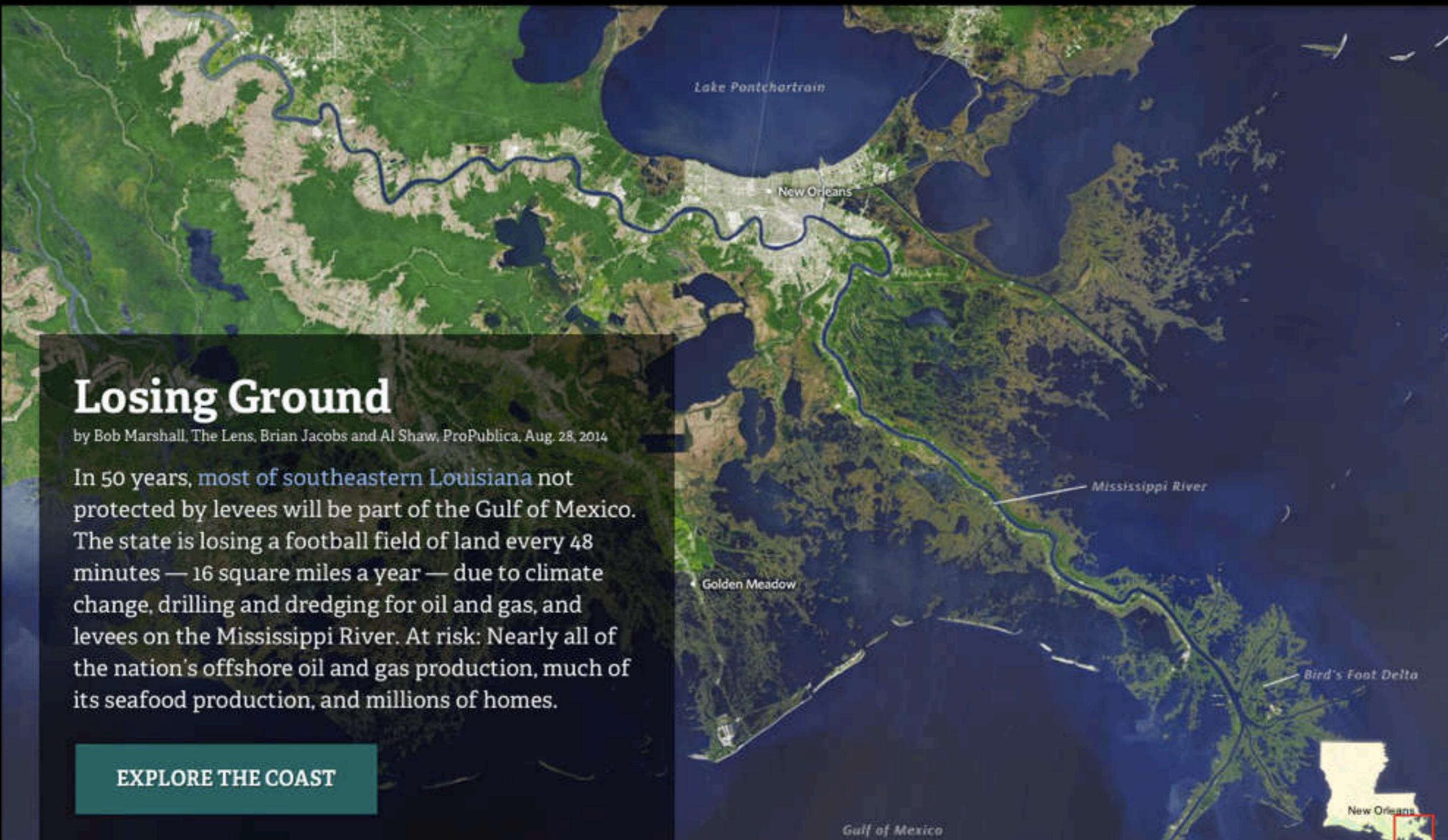
<https://github.com/propublica>

My 2014
Mi 2014



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Gulf of Mexico



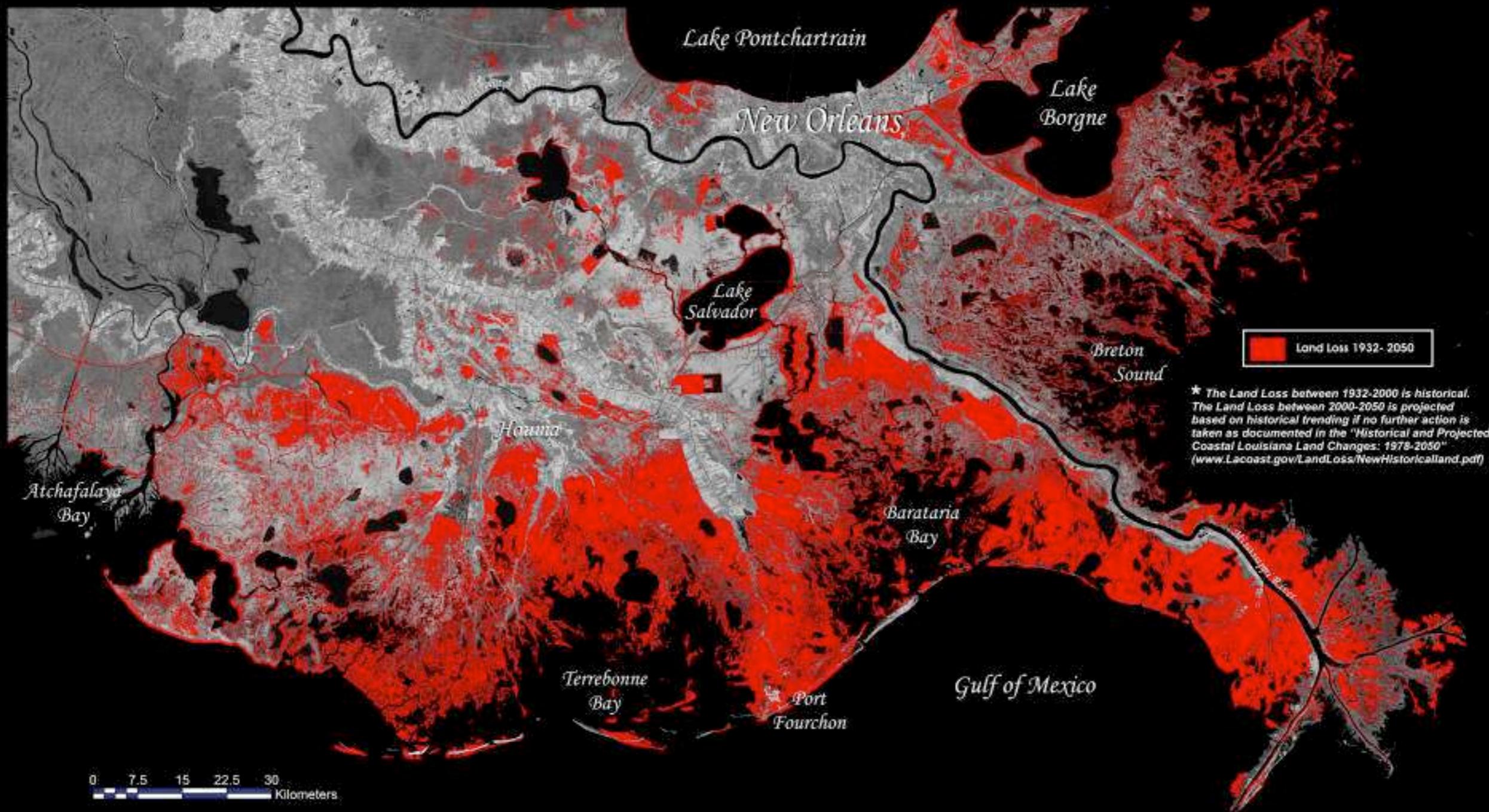
Source: NASA/USGS Landsat

Two Documents

Dos Documentos

Southeast Louisiana Land Loss

*Historical and Projected Land Loss in the Deltaic Plain



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 EFFECT
OF THE DEEPWATER HORIZON OIL SPILL

MIKE TIDWELL



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.

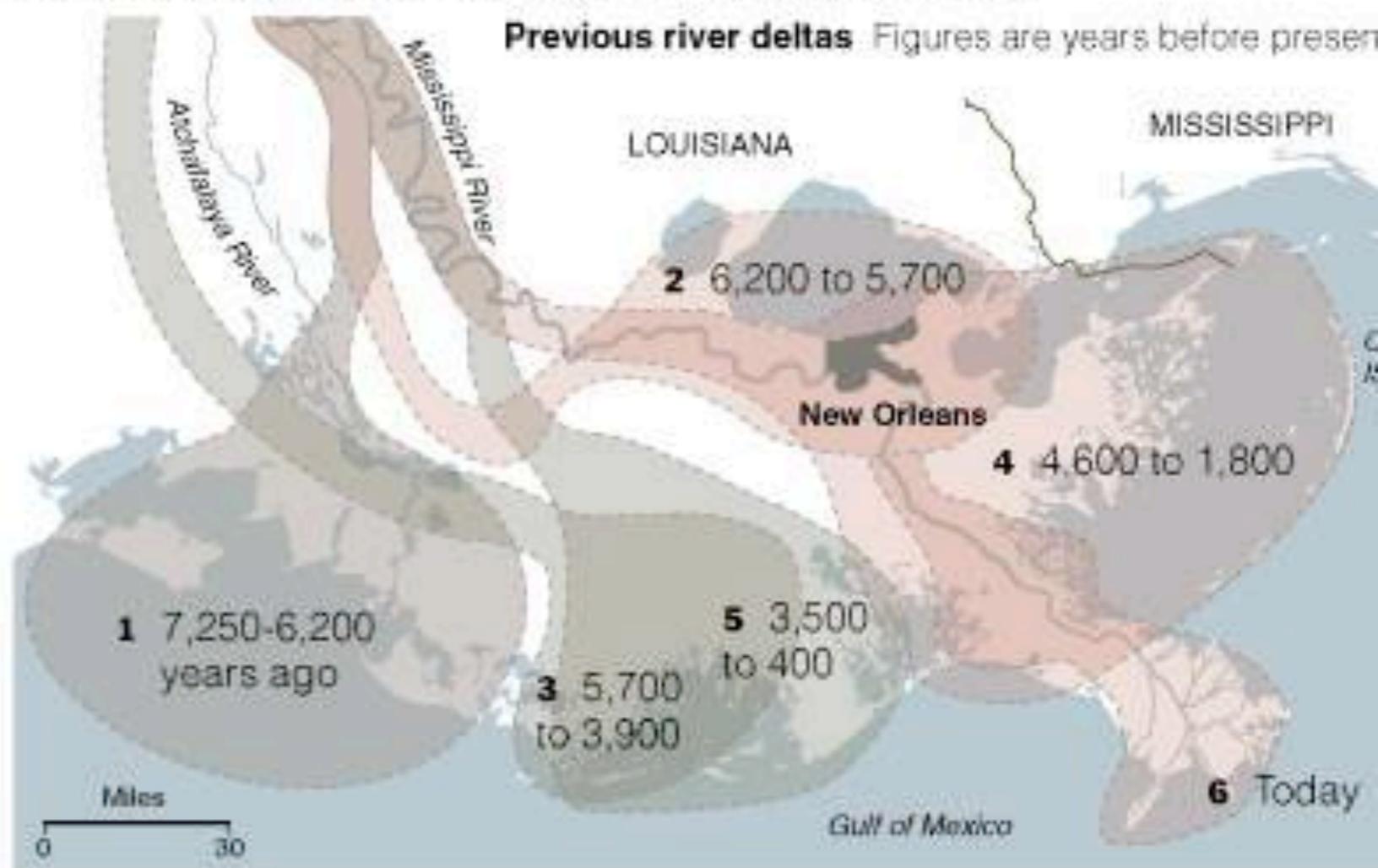
DRAINAGE BASIN

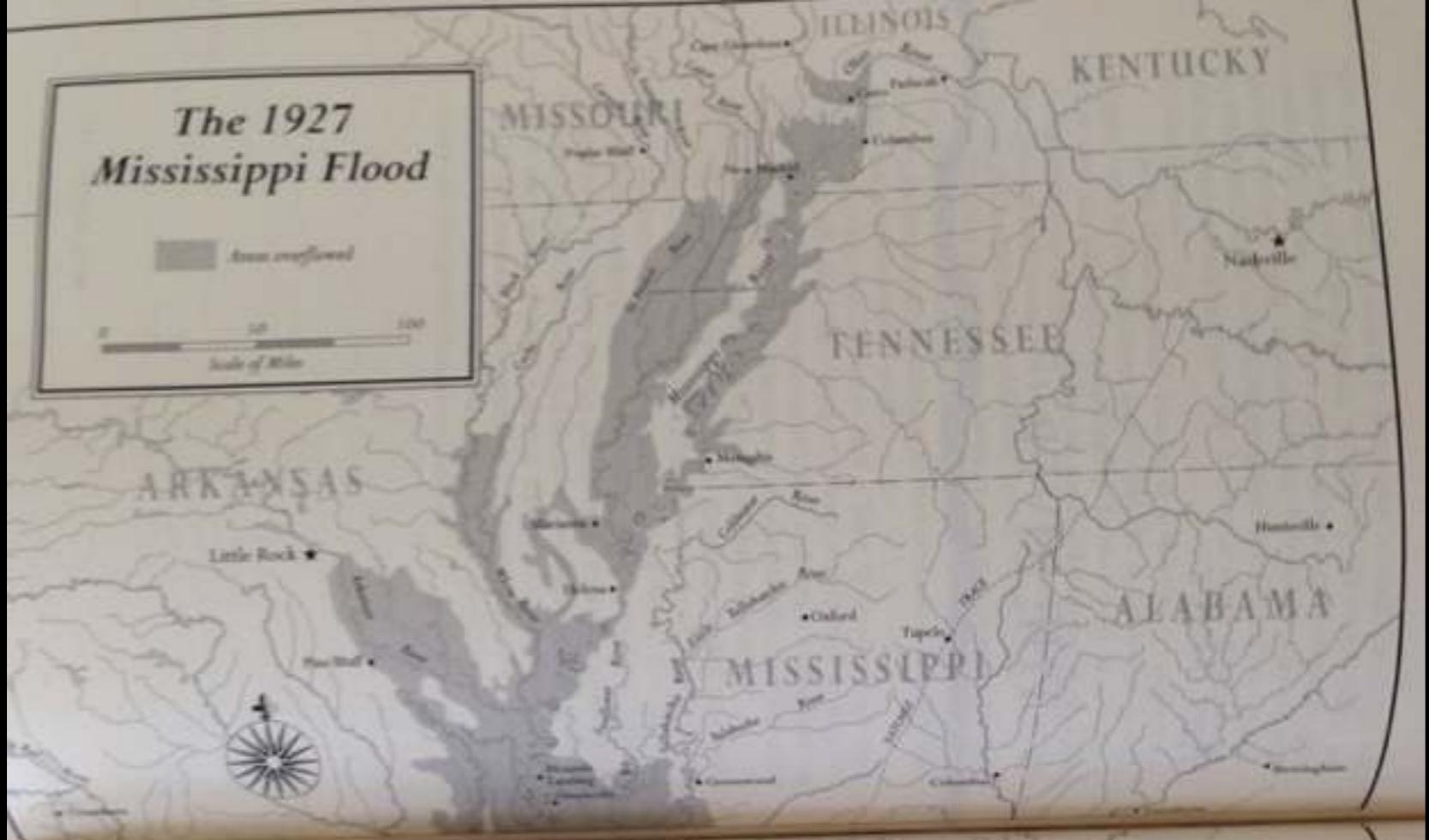
The Mississippi drains more than 40 percent of the continental United States.

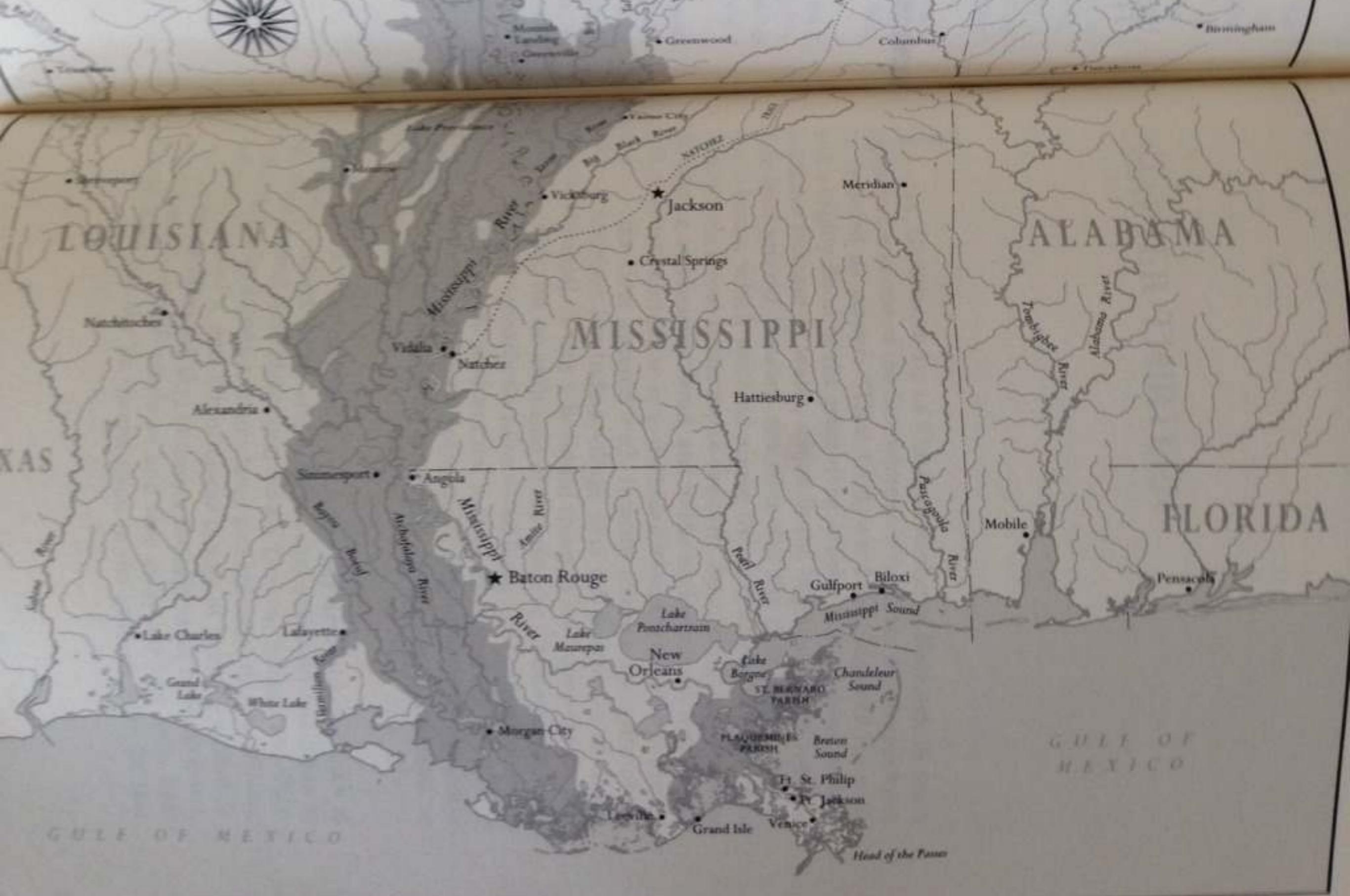


MISSISSIPPI'S MANY DELTAS

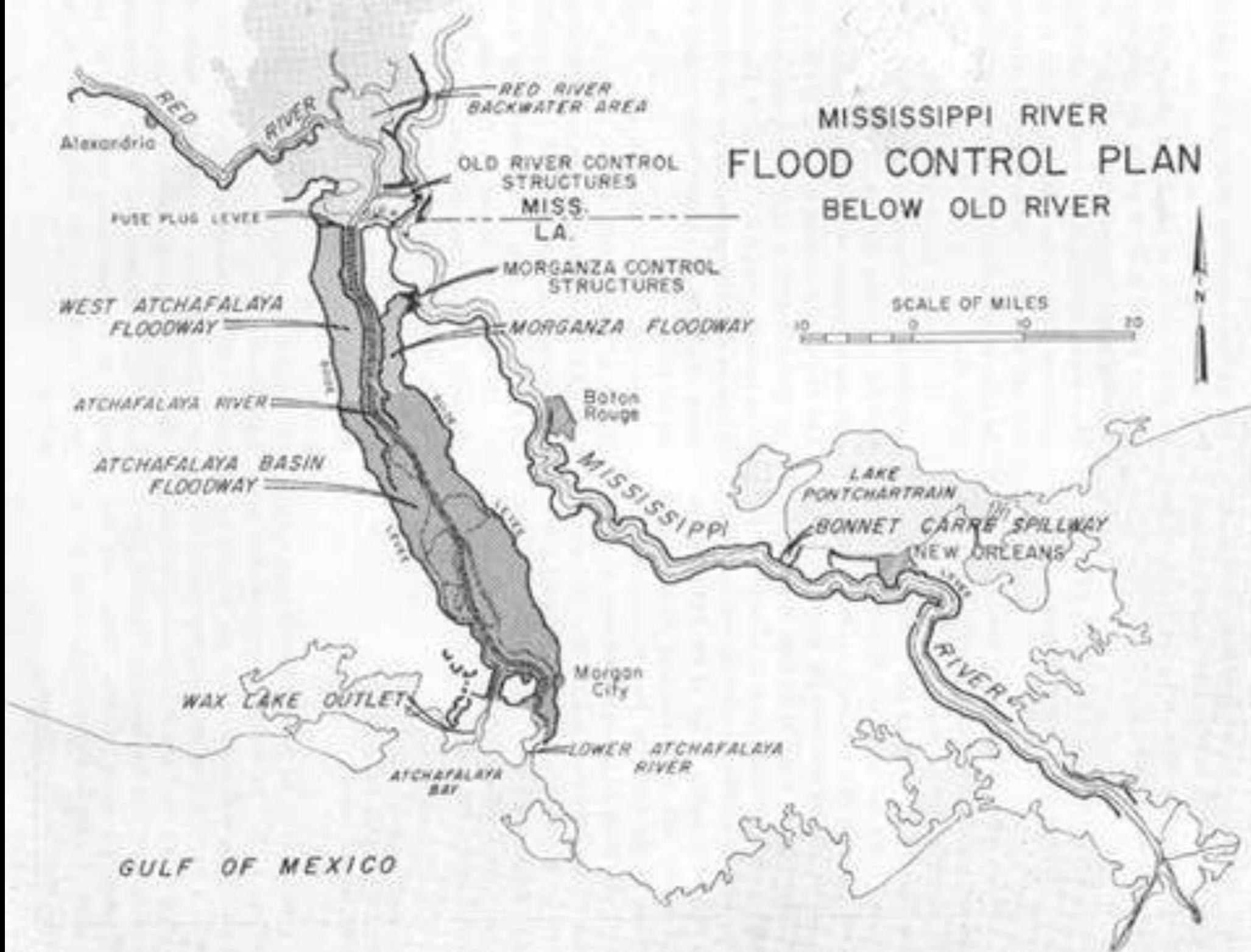
The Mississippi has always meandered but levees are preventing the river from making its next move, most likely to the Atchafalaya River.

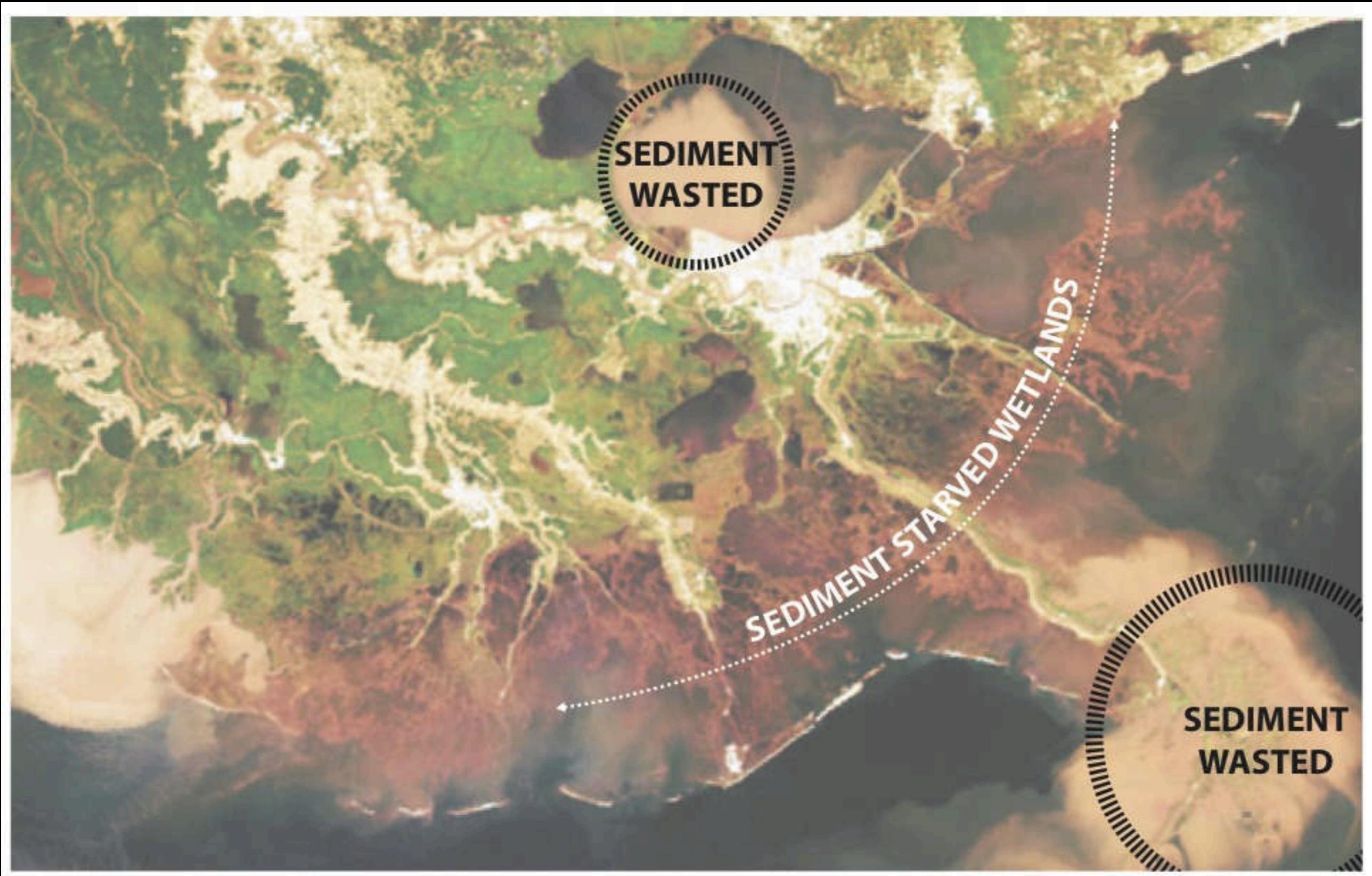


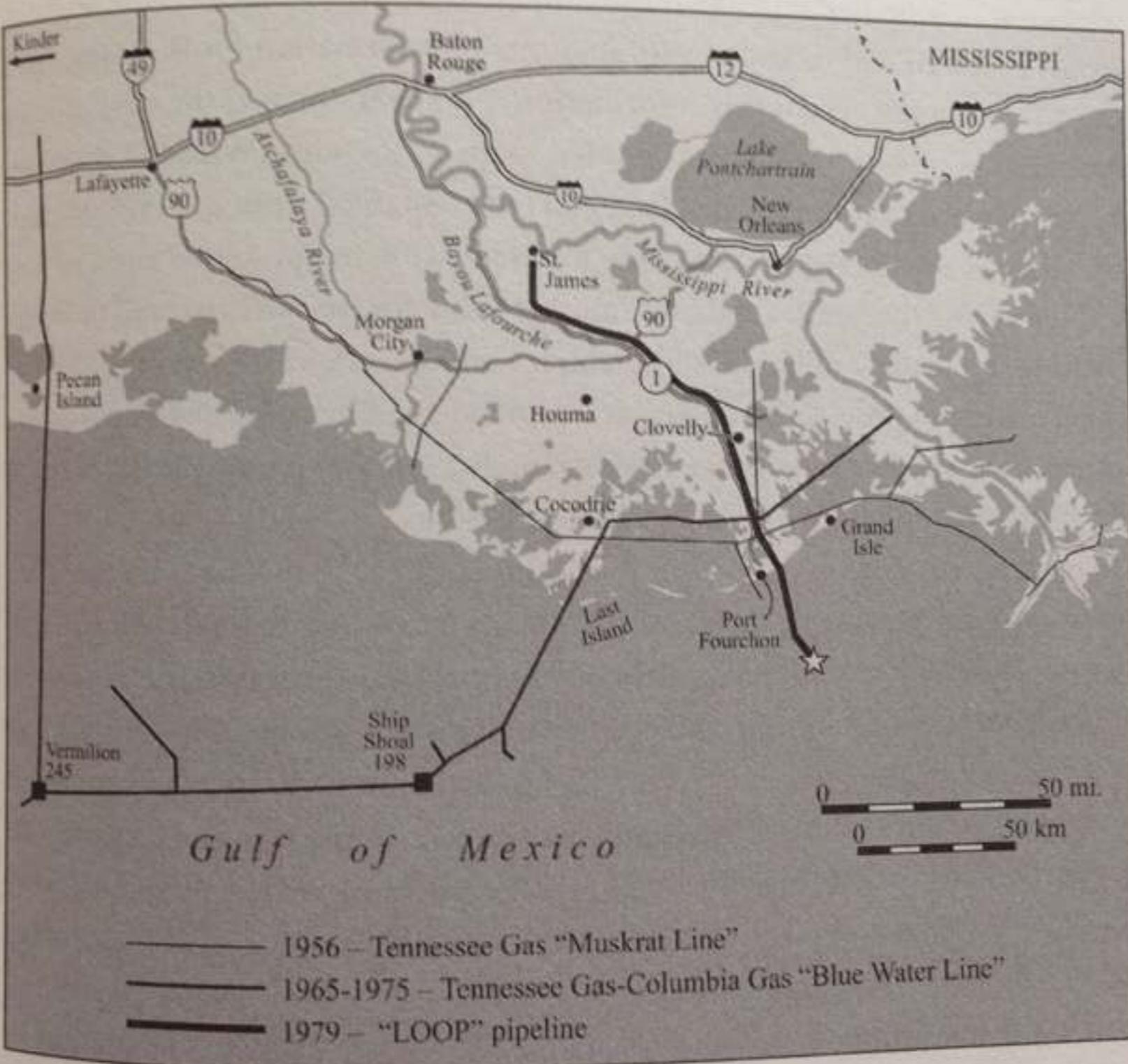




MISSISSIPPI RIVER FLOOD CONTROL PLAN BELOW OLD RIVER



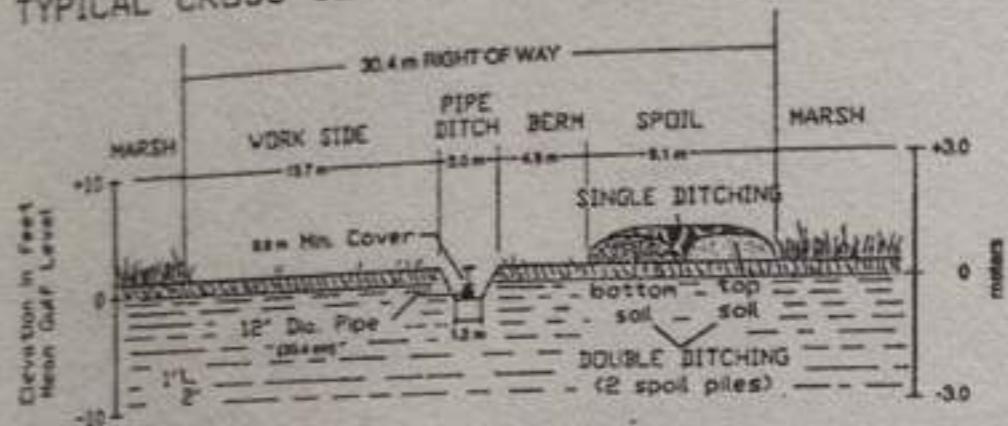




Map 3. Three of the largest pipeline systems ever built in coastal Louisiana: (a) Tennessee Gas Muskrat Line through the Mississippi delta, (b) Tennessee Gas-Columbia Gas Blue Water offshore pipeline, and (c) the Louisiana Offshore Oil Port (LOOP) pipeline through Lower Lafourche Parish. (Mary Lee Eggart,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



TYPICAL CROSS-SECTION OF PUSH-PULL DITCH



TYPICAL CROSS-SECTION OF FLOTATION CANAL

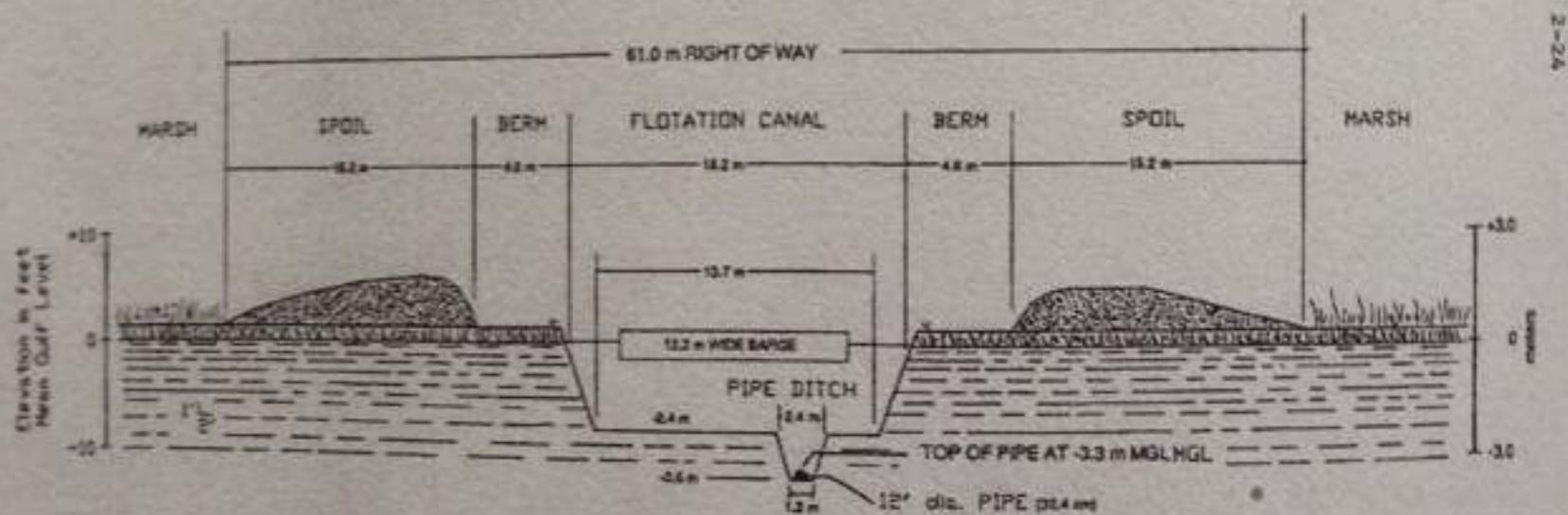
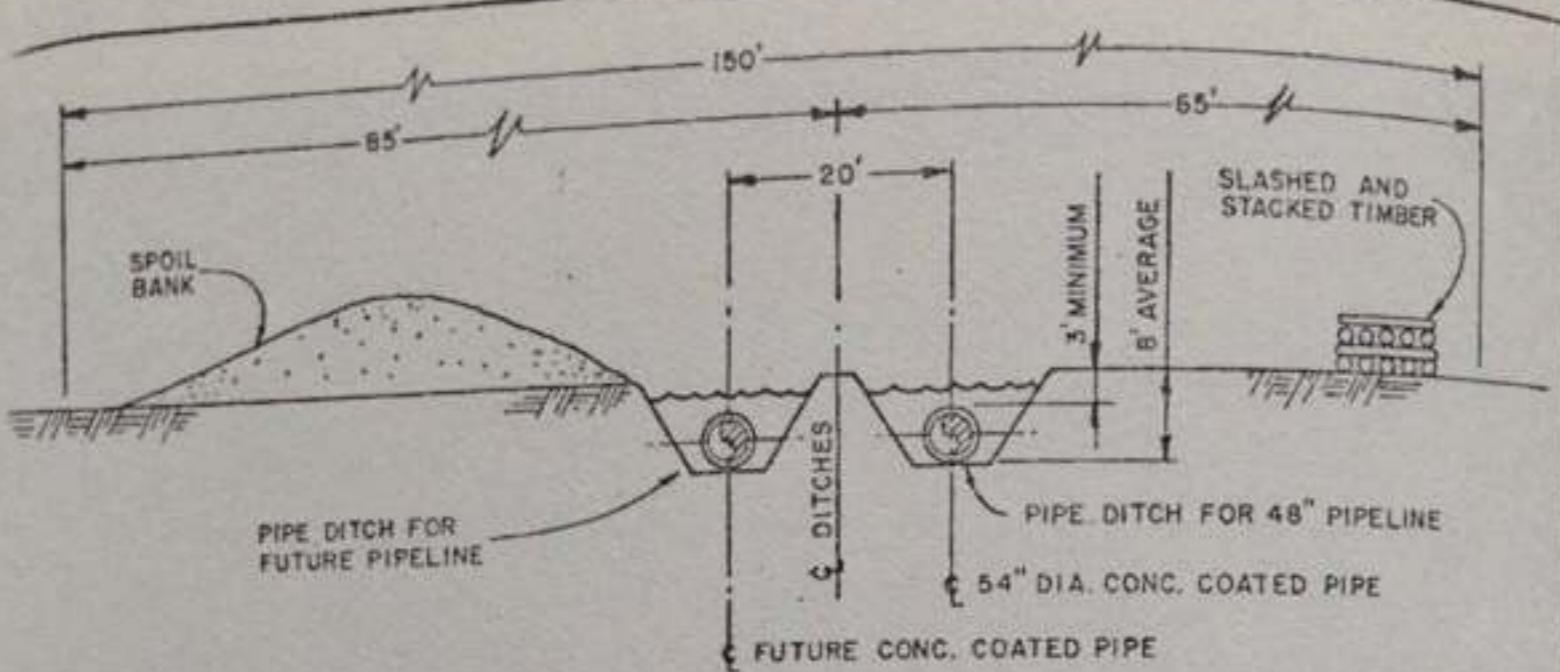
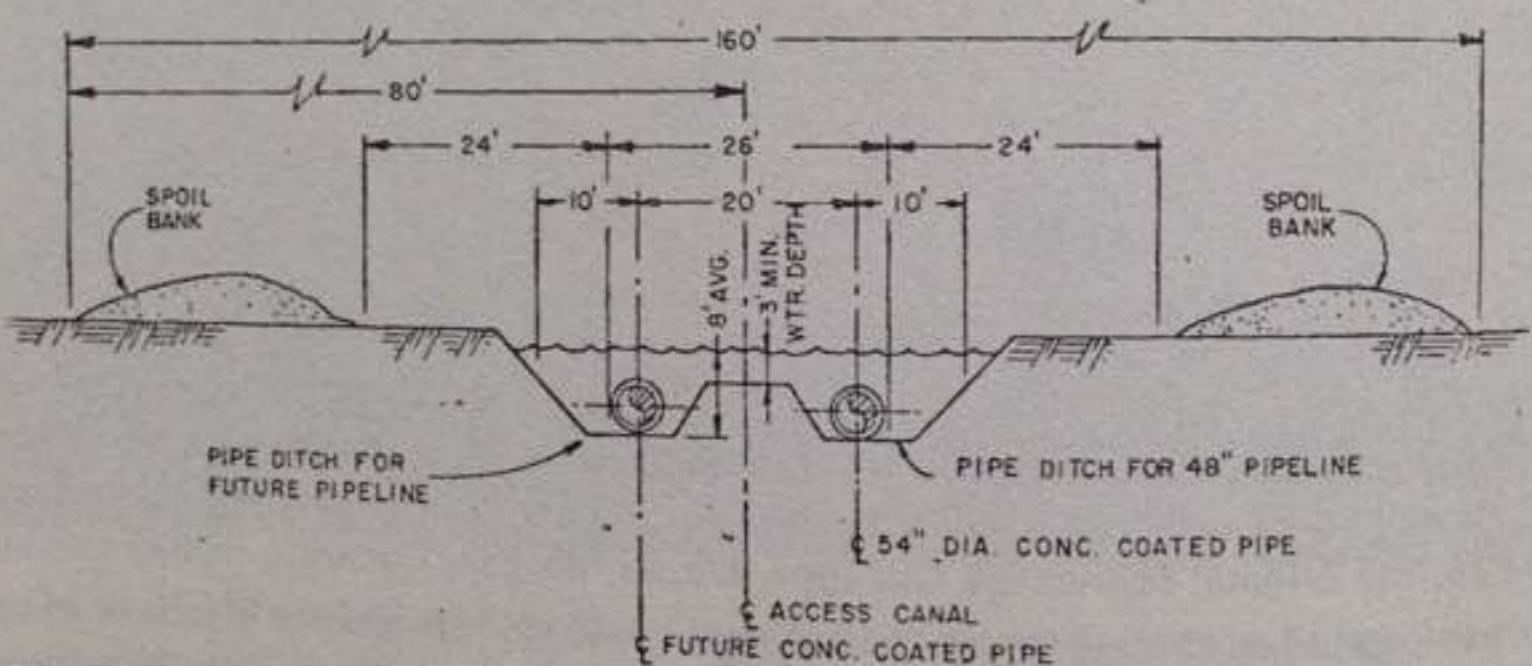


Figure 2.6. Comparison of typical cross sections for a push-pull ditch and a flotation canal.

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 such action. (Source: Theriot et al., 1998)



TYPICAL CROSS SECTION FOR PUSH DITCH



TYPICAL CROSS SECTION FOR PUSH AND ACCESS CANAL

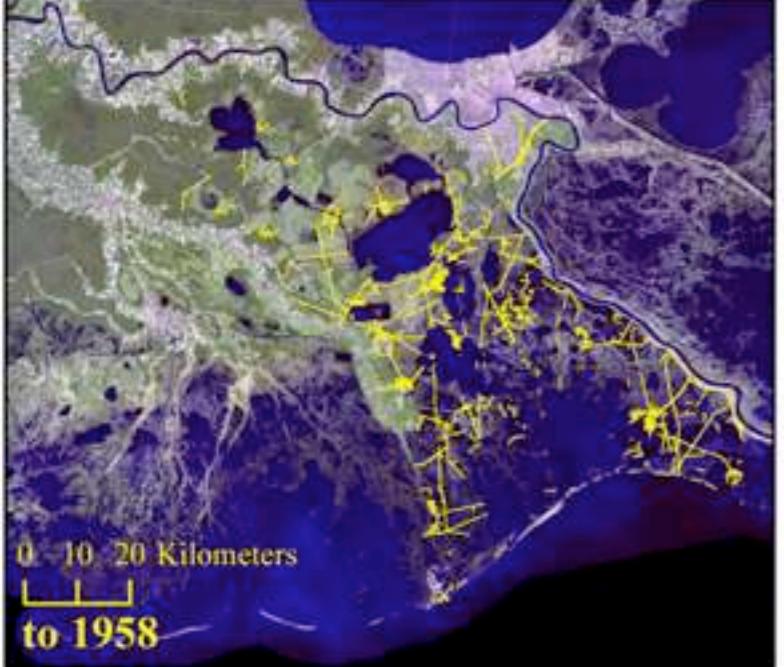
NOTE: THE ENTIRE LENGTH OF LINE WILL BE BACKFILLED
WITH AVAILABLE SPOIL AFTER THE PIPELINES ARE
INSTALLED.

LOOP INC.

TYPICAL CROSS SECTIONS
FOR
ST. JAMES PIPELINES



Flickr: [Gulf Restoration Network](#)



A. Tweel, Louisiana State University, 2013



1956

1972

2013

“Rueda de Vagón,” Venice, Louisiana
“Wagon wheel,” Venice, La.

USGS Aerials

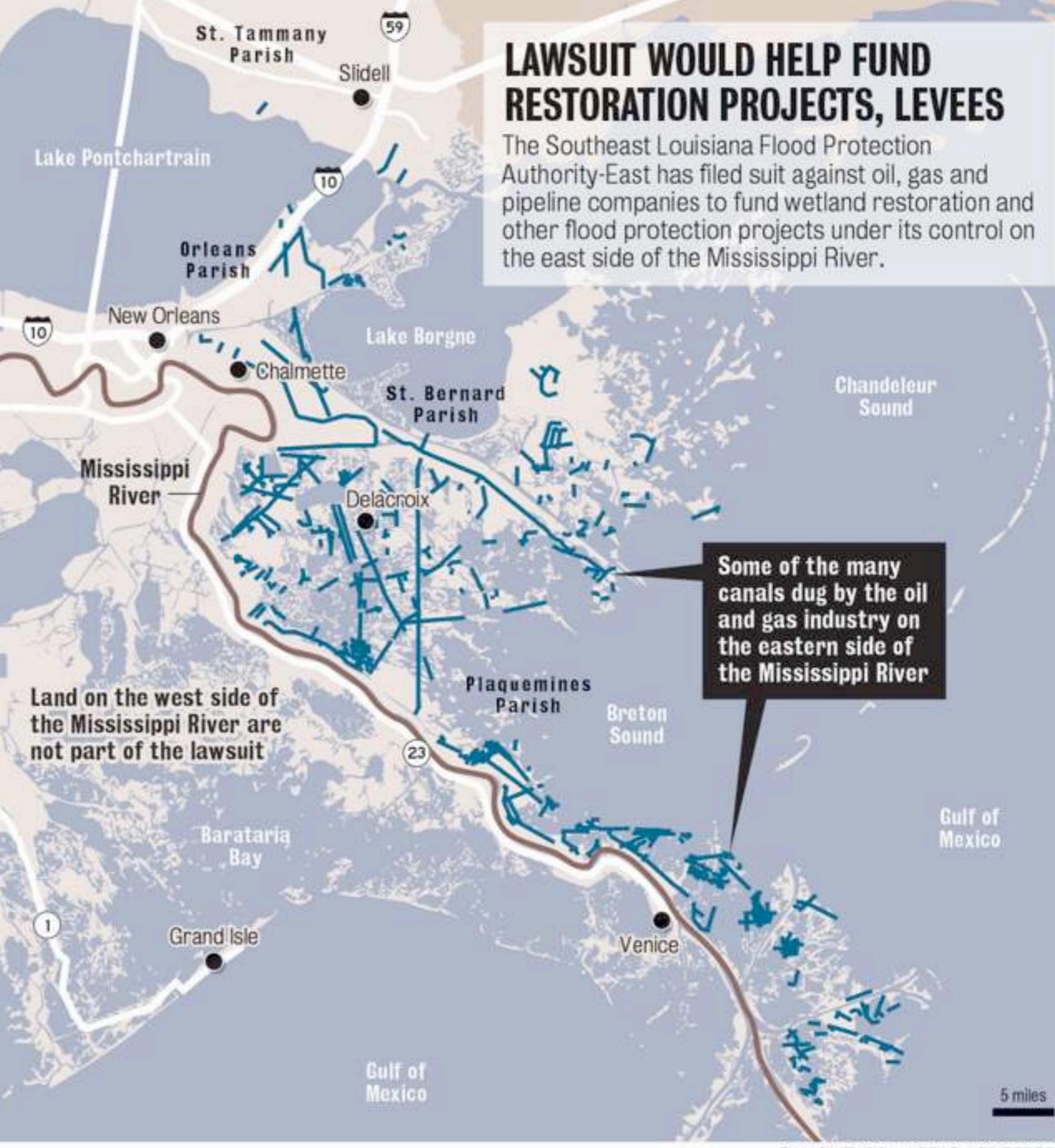


CIVIL DISTRICT COURT FOR THE PARISH OF
ORLEANS
STATE OF LOUISIANA

NO. 13-6911

BOARD OF COMMISSIONERS OF THE SOUTHEAST LOUISIANA FLOOD PROTECTION AUTHORITY - EAST, INDIVIDUALLY AND GOVERNING THE ORLEANS LEVEE DISTRICT, THE LAKE BORGNE LEVEE DISTRICT, AND THE EAST JEFFERSON LEVEE DISTRICT, PLAINTIFFS,
V.

TENNESSEE GAS PIPELINE COMPANY, LLC; ALTA MESAS ENERGY, INC.; ANADARKO E&P ONSHORE, LLC; APACHE CORP.; ATLANTIC RICHFIELD COMPANY; BEPCO, LP; BHP BILLITON PETROLEUM (KCS RESOURCE) INC.; BOARDWALK PIPELINE PARTNERS, LP; BOPCO, LP; CALIFORNIA PRODUCTION CO.; BP OIL PIPELINE CO.; BP-PIPELINES OF AMERICA, INC.; CALLON OFFSHORE PRODUCTION, INC.; CALLON CASKIDS OPERATING CO.; CASTEX ENERGY, INC.; CENTERPOINT ENERGY RESOURCES CORP.; CHEVRON U.S.A., INC.; CHROMA OPERATING, INC.; CLAYTON ENERGY, INC.; CLOVELLY OIL CO., LLC; COASTAL EXPANSION PRODUCTION, LLC; COLLINS PIPELINE CO.; CONOCOPHILLIPS COMPANY; CONTINENTAL OIL CO.; COX OPERATING, LLC; CRAVEN OPERATING CO.; CROSSTEX LIG, LLC; DALLAS EXPLORATION & PRODUCTION CO.; DEVON ENERGY PRODUCTION CO., LP; ENERGEN ENTERPRISE INTRASTATE, LLC; EOG RESOURCES, INC.; ENERGY MANAGEMENT, LLC; ESTATE OF WILLIAM G. HELIS; EXXONMOBIL PIPELINE CO.; FLASH GAS & OIL NORTHERN ROYALTY, LTD.; GREKA AM, INC.; GULF PRODUCTION COMPANY, LP; HARVEST OIL & GAS, LLC; HELIS ENERGY & GAS CO., LLC; HESS CORPORATION, A DELAWARE CORPORATION; HILLIARD OIL & GAS, INC.; HKN, INC.; INTEGRATED ENERGY PRODUCTION, LLC; J.C. TRAHAN DRILLING CONTRACTORS, INC.; KENMORE OIL CO., INC.; KEWANEE INDUSTRIES, INC.; LEXUS ENERGY, INC.; KOCH EXPLORATION CO., LLC; KOCH INVESTMENTS, INC.; 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 EXPLORATION COAST, LLC; NOBLE ENERGY, INC.; O'MEARA, LLC; ORX ENERGY, INC.; P.R. RUTHERFORD; PLACID OIL CO.; PLAINS PIPELINE, LLC; REPUBLIC MINERAL CORP.; RIPCO, LLC; ROZEL PARISH OIL CO., INC.; SENECA RESOURCES CORP.; SHELL PETROLEUM, INC.; SOUTHERN BAY ENERGY, LLC; SOUTHERN OIL CO., LLC; STATOIL EXPLORATION (US), INC.; SUN OIL CO.; TULANE ENERGY, INC.; THE LOUISIANA LAND AND EXPLORATION CO., LLC; MERIDIAN RESOURCE & EXPLORATION, LLC; THE PICKETT OIL CO. OF CALIFORNIA; VINTAGE PETROLEUM, LLC; WHITING OIL & GAS CORP.; WILLIAMS COMPANIES, INC.; 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.

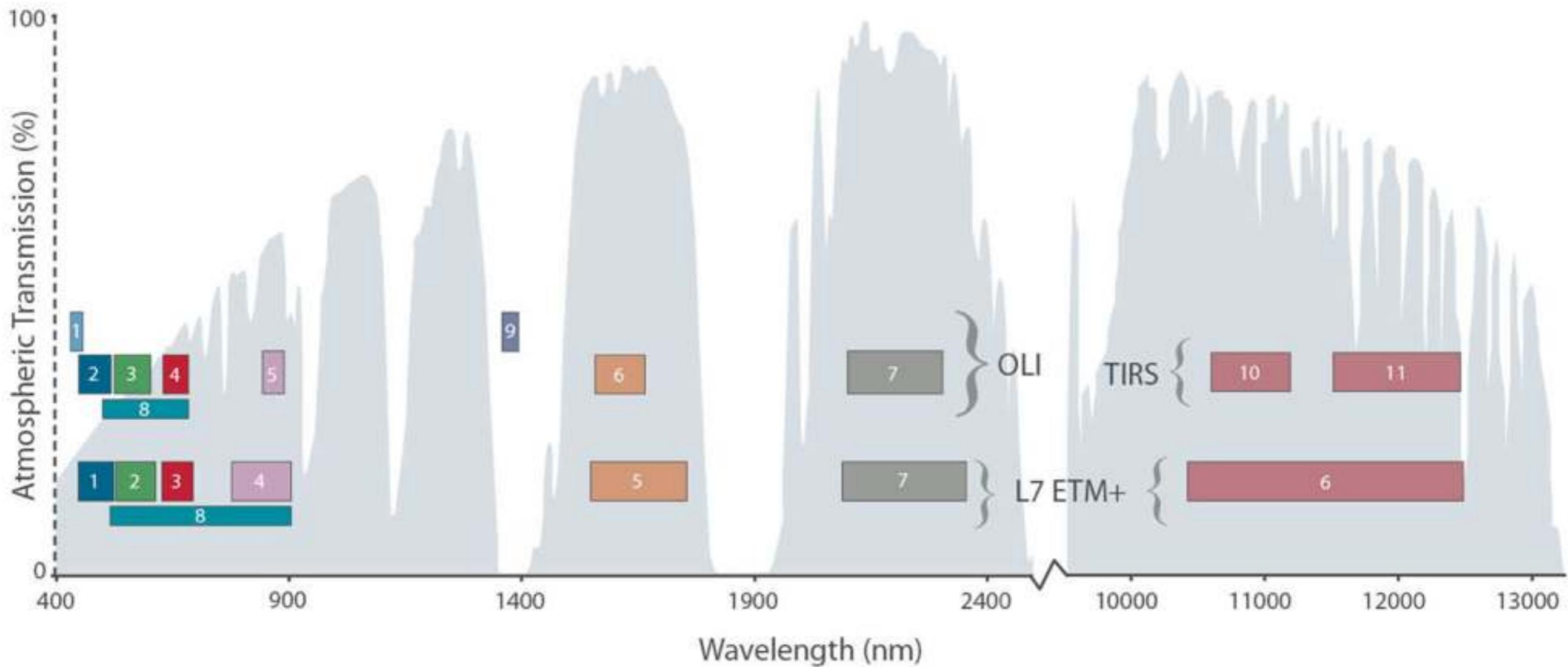
DAN SWENSON / GRAPHICS REPORTER

Investigative Space Journalism!

Periodismo de investigación — ¡en el espacio!

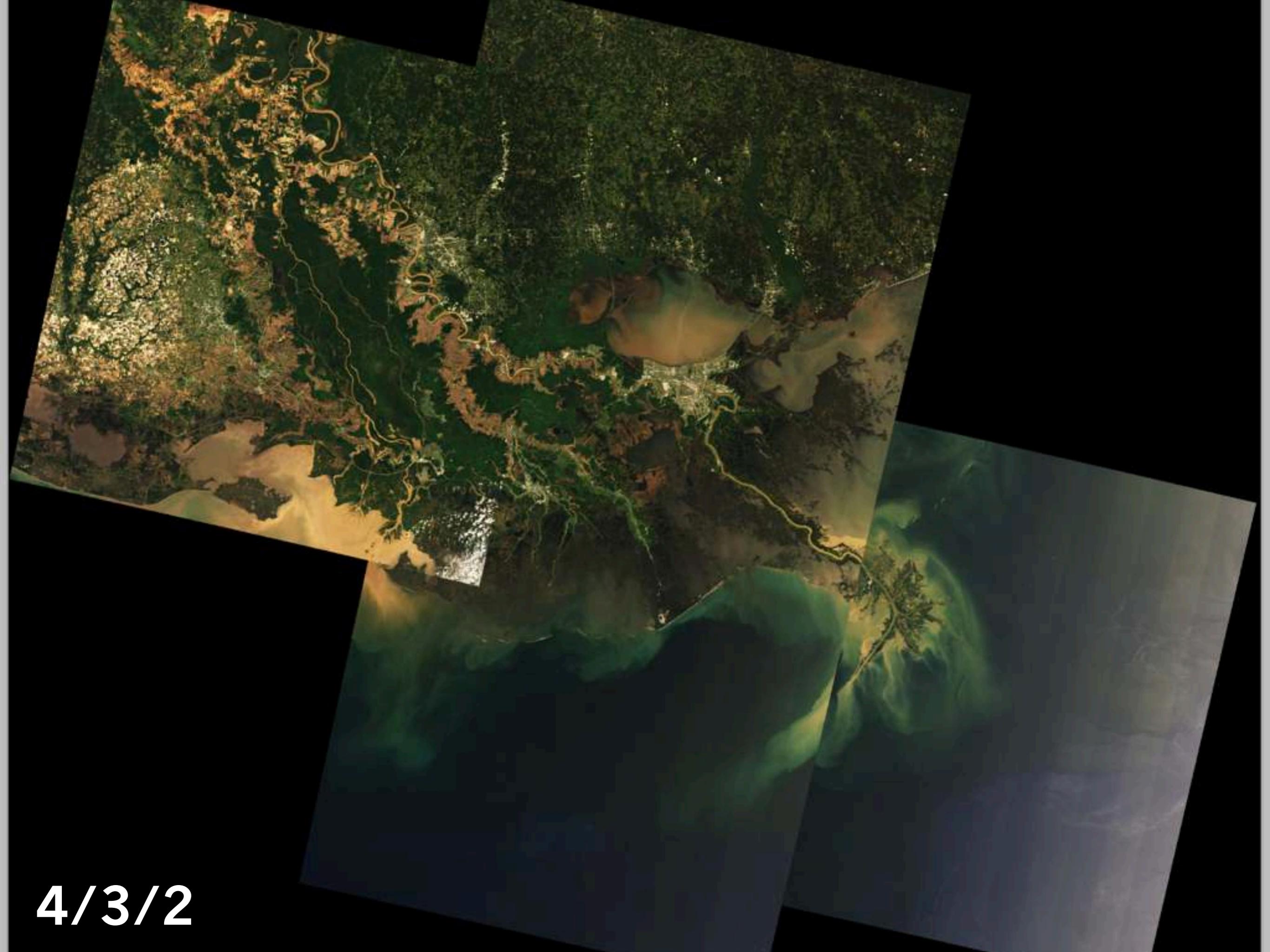


Landsat 8



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/>

The screenshot shows a blog post on the Mapbox website. The header includes links for Design, Data, Develop, Showcase, Plans, Help, Blog, Sign in, and Try it for free. The main content is titled "Putting Landsat 8's Bands to Work" by Charlie Loyd on June 14, 2013. The text discusses the capabilities of Landsat 8, mentioning its multispectral bands and ability to analyze terrain types, crop growth, and natural disasters. It includes a large satellite image of a coastal area.

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

The screenshot shows a blog post on the NASA Earth Observatory website. The header features the NASA logo and the text "EARTH OBSERVATORY Where every day is Earth Day". The navigation bar includes Home, Images, Global Maps, Features, and News & Notes. The post is titled "How To Make a True-Color Landsat 8 Image" by Robert Simmon on October 22nd, 2013. It includes a share button and a detailed text about Landsat 8's data collection. Below the text is a large satellite image of a mountainous region with snow and green vegetation.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

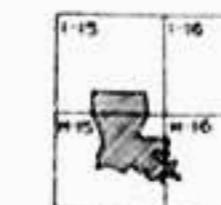
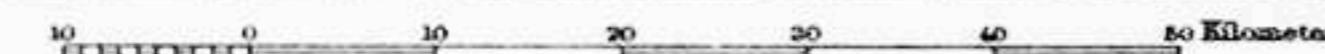
STATE OF LOUISIANA

A. F. Hassan, Cartographer

Compiled and published in 1922, reprinted 1948

Compilation based on State map by the General Land Office

Scale 1:500,000

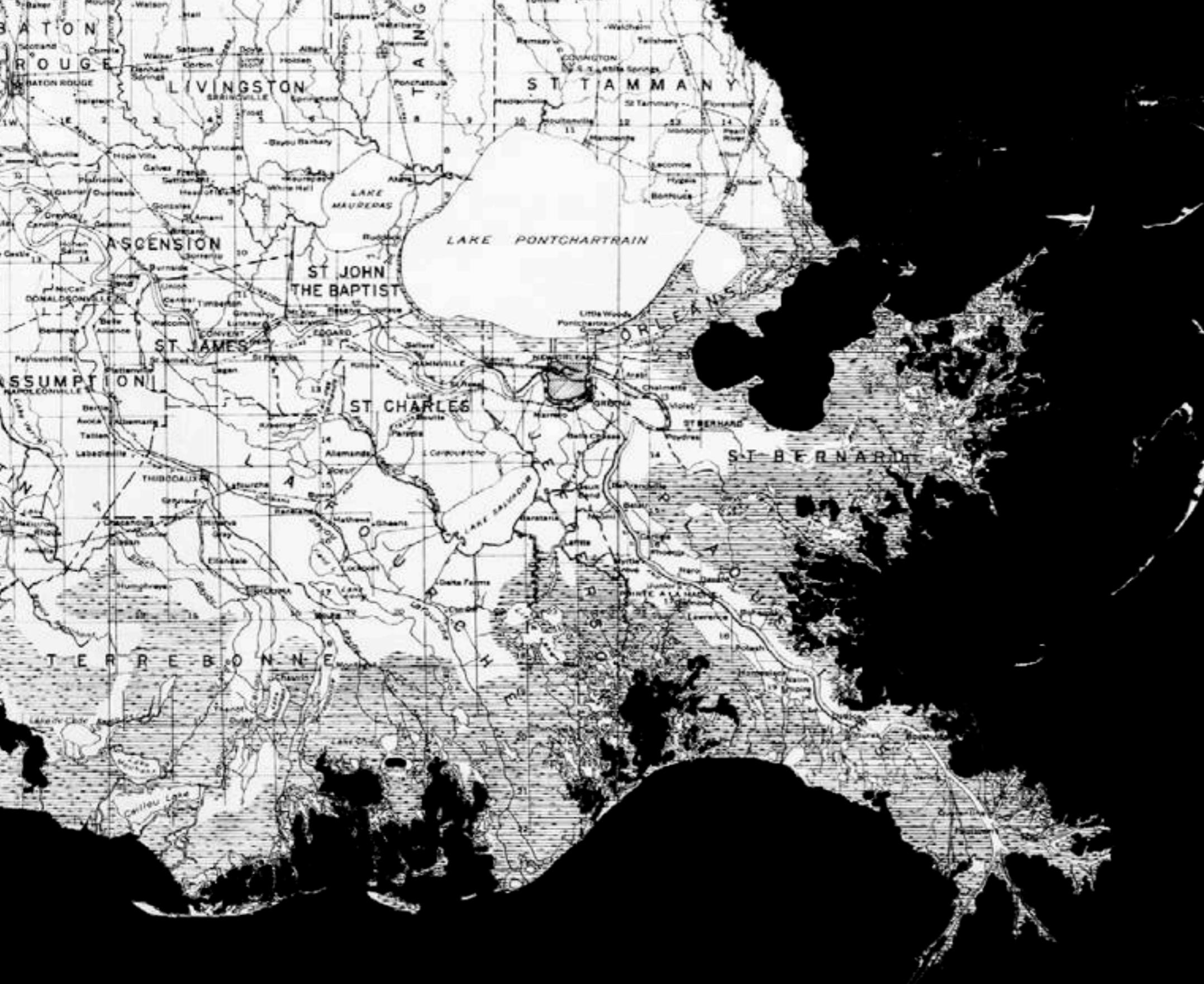


Relation of the State of Louisiana to
sheets of the Map of the World on
the scale of 1:1,000,000

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

Modified polyconic projection

North American datum





30 km

20 mi

Creating “land” Crear “tierra”

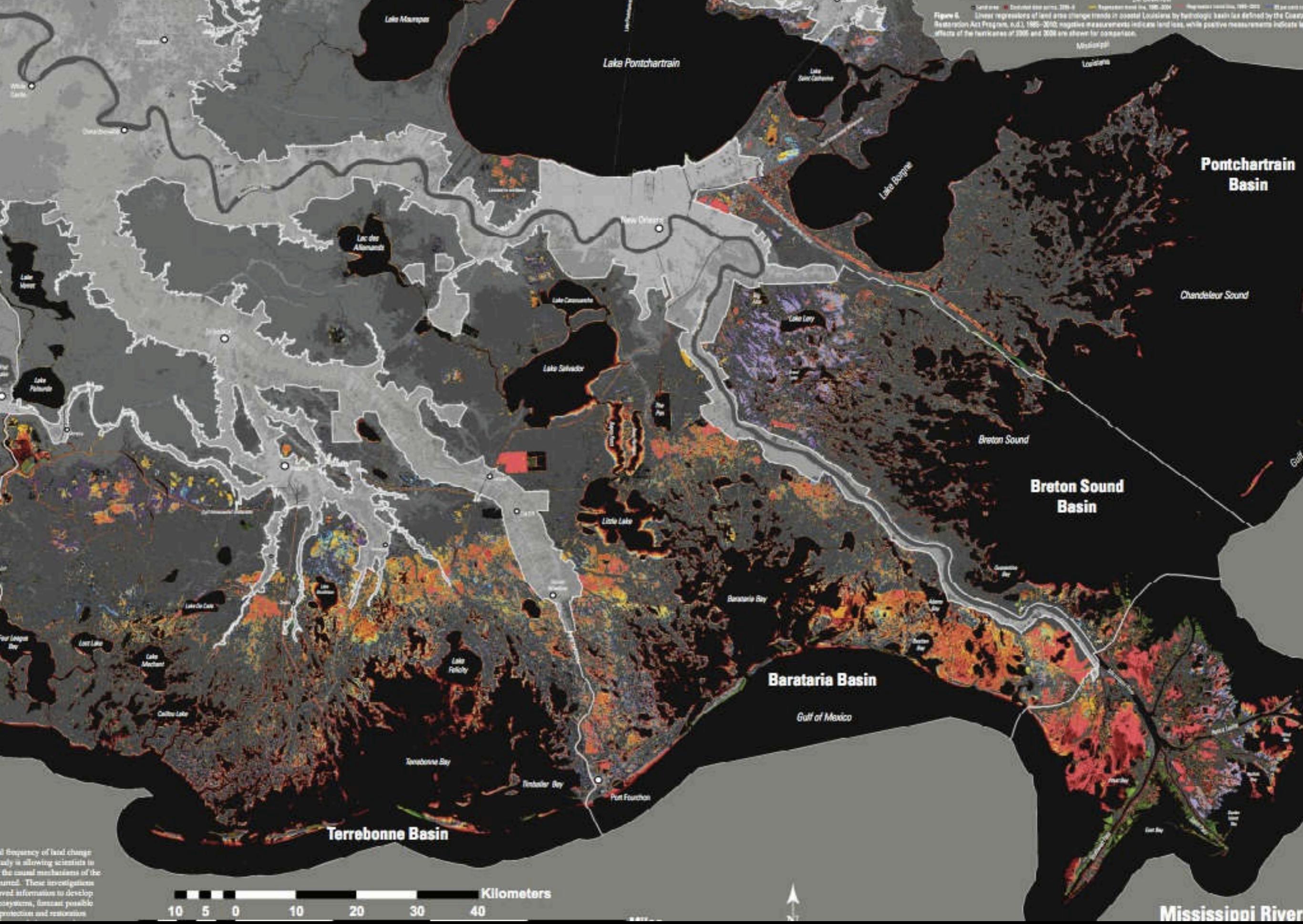


Buras, La. land loss 1932 to present via USGS, over 2014 Landsat 8

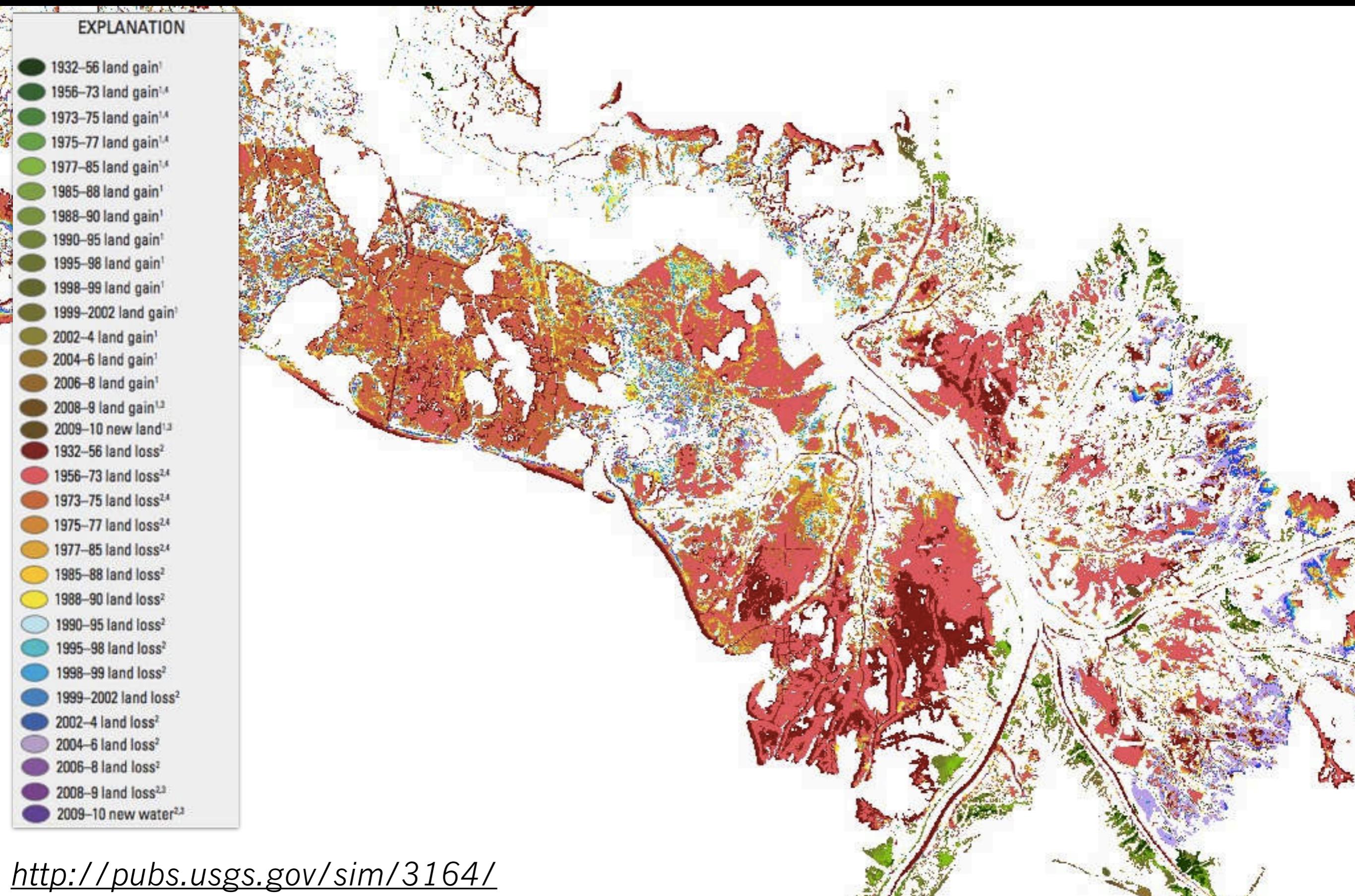
Creating “land” Crear “tierra”



Buras, La. land loss 2009 via USGS, over 2014 Landsat 8



Creating “land” Crear “tierra”



Creating “land” Crear “tierra”

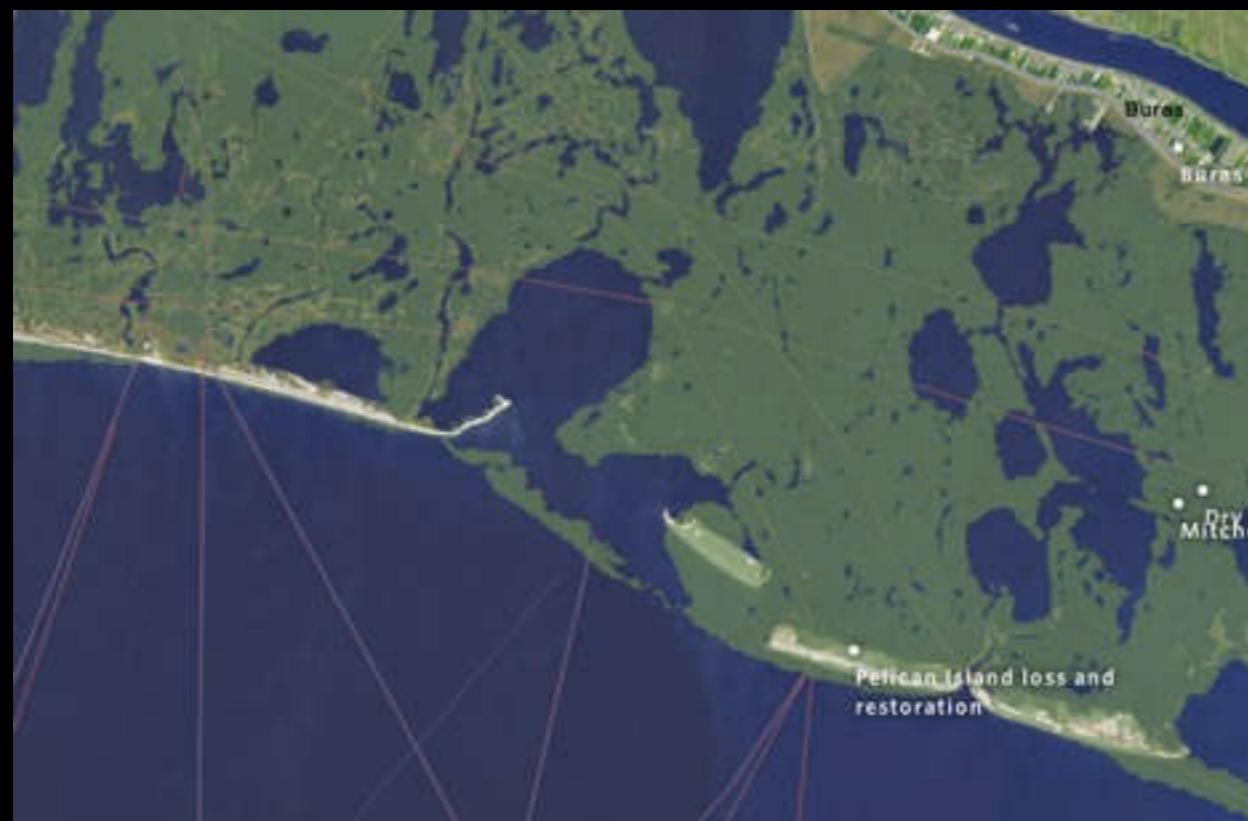
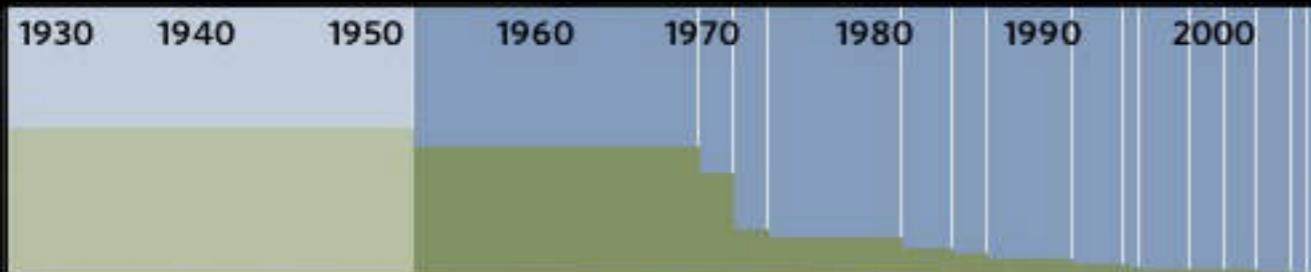
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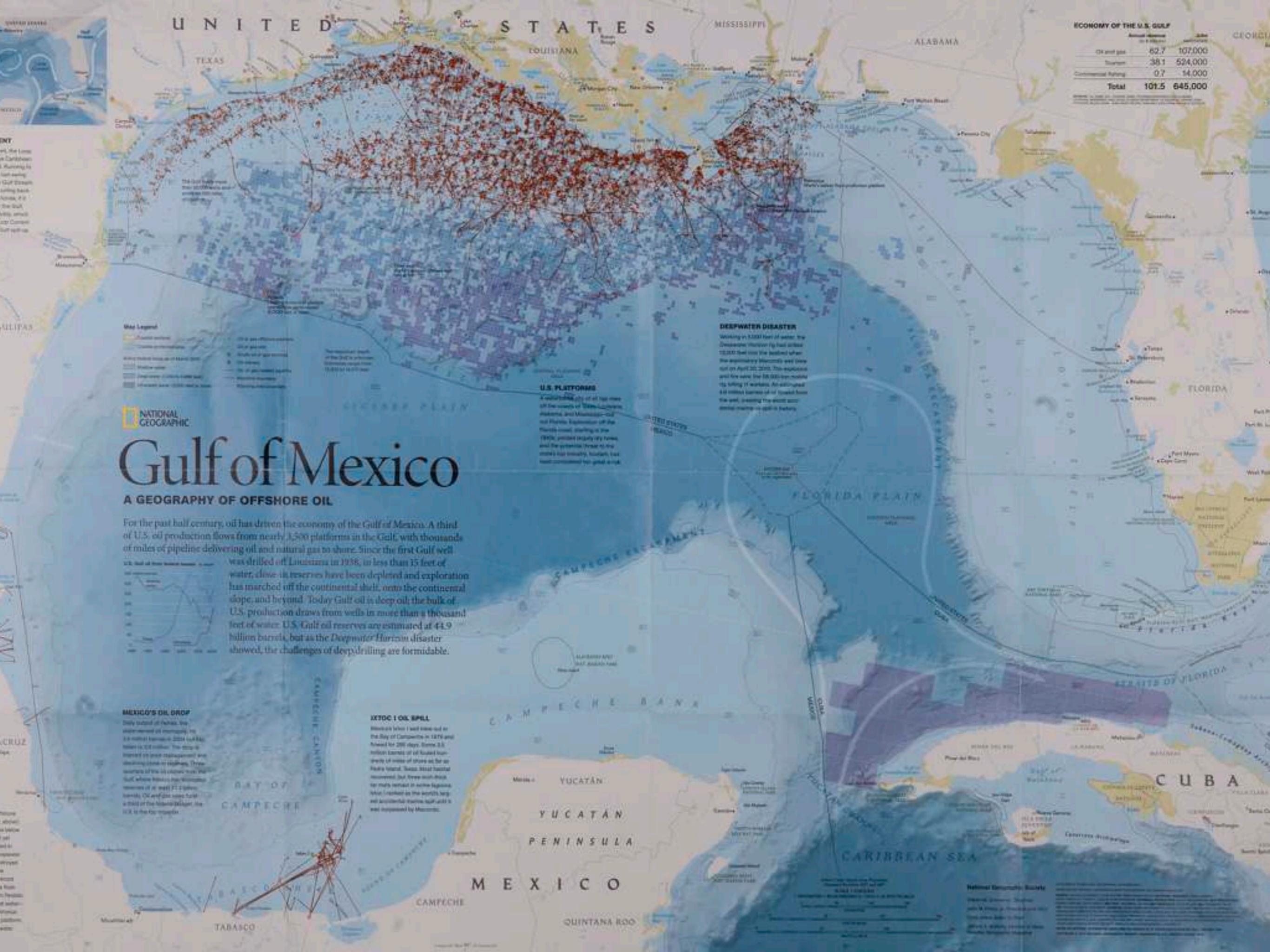
Creating “land” *Crear “tierra”*

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







AI > Guides > West Highland Way

 Home



DAY 1

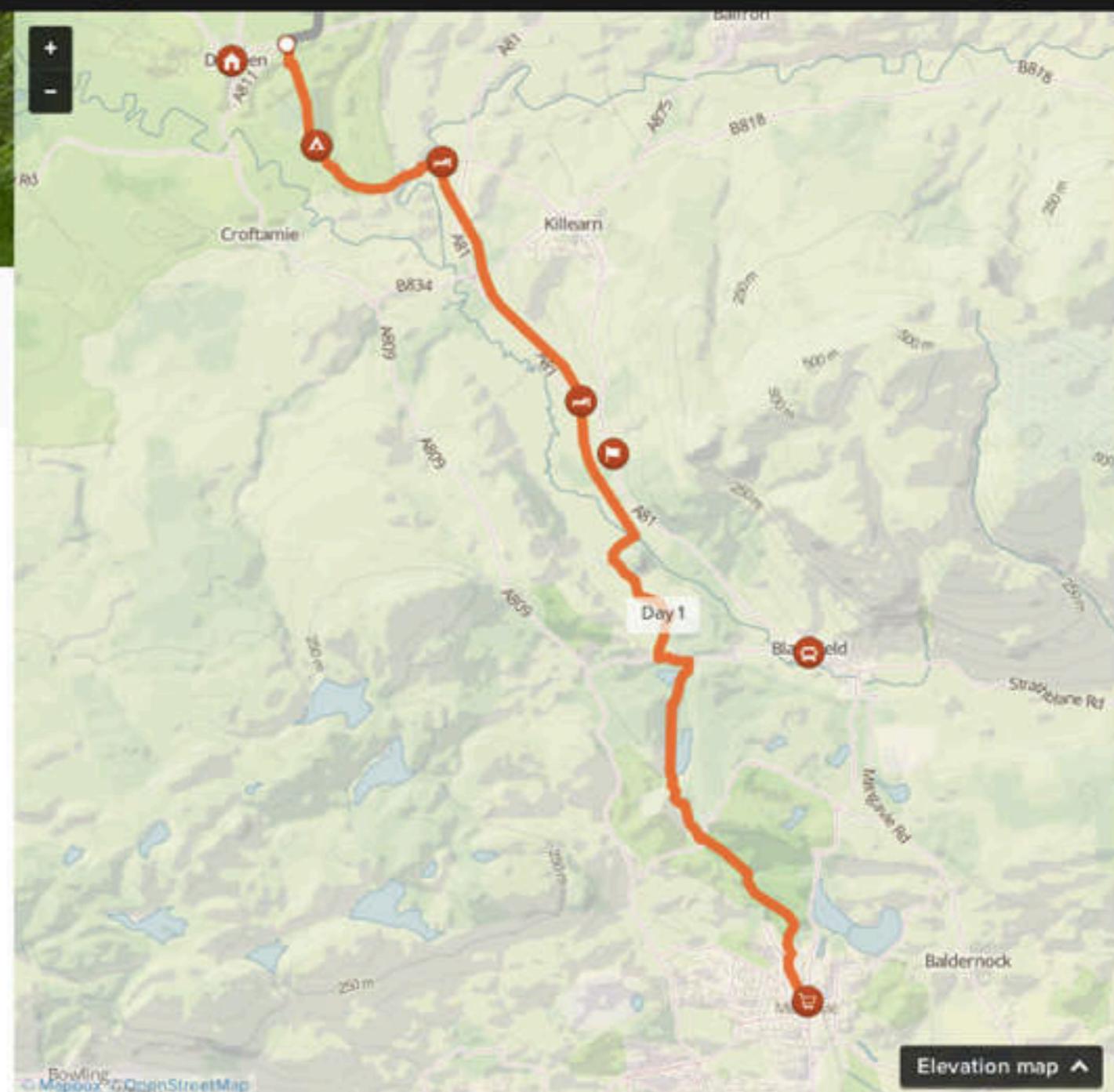
Milngavie to Drymen

⌚ 5 Hours / 19 km ➔ 419 m ↗ 307 m



Looking at the map, the first couple of hours on 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 on 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

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PRO PUBLICA THE LENS Losing Ground

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.

30 km
20 mi

Gulf of Mexico

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.

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1922 2014 LEVEES CANALS OIL/GAS SEVERE MODERATE

2014

Today, residents of Southeast Louisiana face a losing equation: They live on narrow slices of high ground that are sinking as the Gulf rises. The state has an ambitious plan that could balance that equation by 2060, but it doesn't have the \$50 billion to pay for it.

30 km
20 mi

Lake Pontchartrain
New Orleans
Houma
Golden Meadow
Mississippi River
1922 Coastline
Gulf of Mexico

Source: NASA/USGS Landsat

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1922 2014 LEVEES CANALS OIL/GAS 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.

30 km
20 mi

— Levee

Source: National Hydrography Dataset (USGS)

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1922 2014 LEVEES CANALS OIL/GAS SEVERE MODERATE

Lake Pontchartrain

New Orleans

Houma

Golden Meadow

Mississippi River

1922 Coastline

Gulf of Mexico

30 km
20 mi

— Canal

Source: A. Tweel, Louisiana State University, 2013

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.

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PAST / PRESENT AN ENGINEERED COAST AN UNCERTAIN FUTURE
1922 2014 LEVEES CANALS OIL/GAS 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.

30 km
20 mi

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

Oil/Gas Well
Pipeline

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PAST / PRESENT AN ENGINEERED COAST AN UNCERTAIN FUTURE

1922 2014 LEVEES CANALS OIL/GAS 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

Gulf of Mexico

■ Predicted Land Loss
■ Predicted Land Gain

New Orleans

Source: USGS/Louisiana Coastal Protection and Restoration Authority

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Losing Ground

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LAND CHANGE SINCE 1932

1930 1940 1950 1960 1970 1980 1990 2000 2010

100%
50%
0

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

Source: NASA, USGS

3 km
3 mi

- Point of interest
- Gone

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Losing Ground

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PRO PUBLICA THE LENS+ Losing Ground

LAND CHANGE SINCE 2009

1930 1940 1950 1960 1970 1980 1990 2000 2010
0% 50% 100%

INTRO PREVIOUS ALL LOCATIONS NEXT

Buras

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

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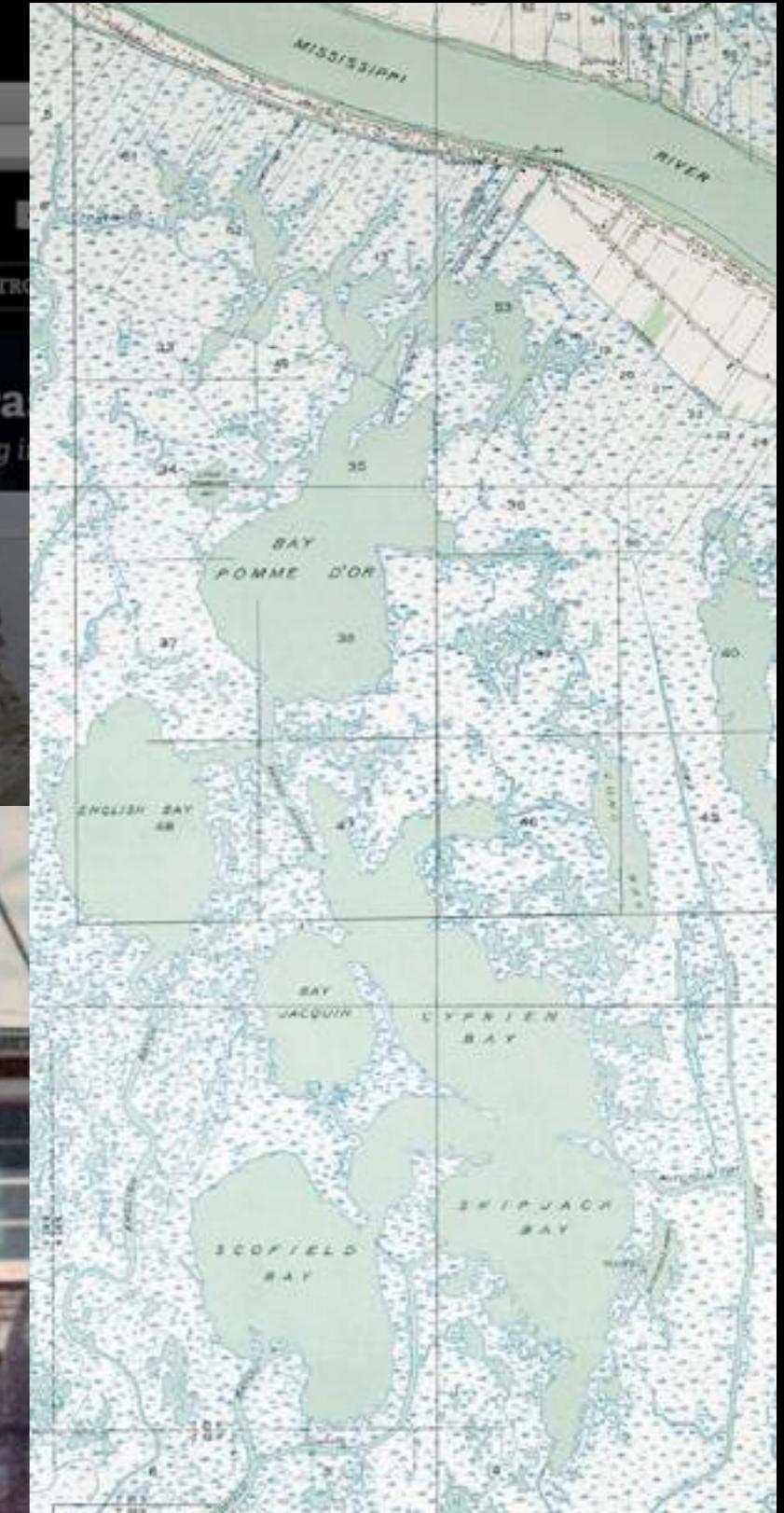
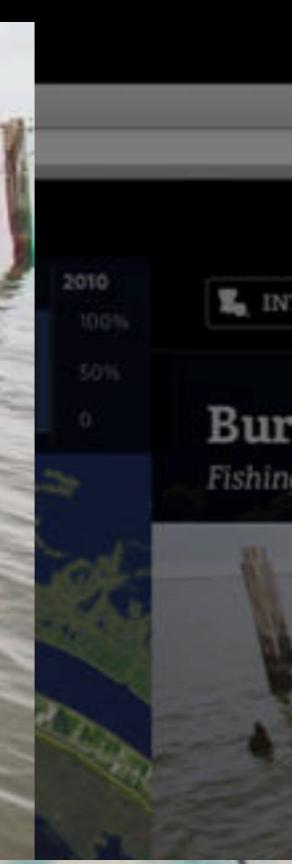
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3 km
3 mi

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lambert, fishing guide: Saltwater





Anthony Bejarano
@AntBejarano



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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

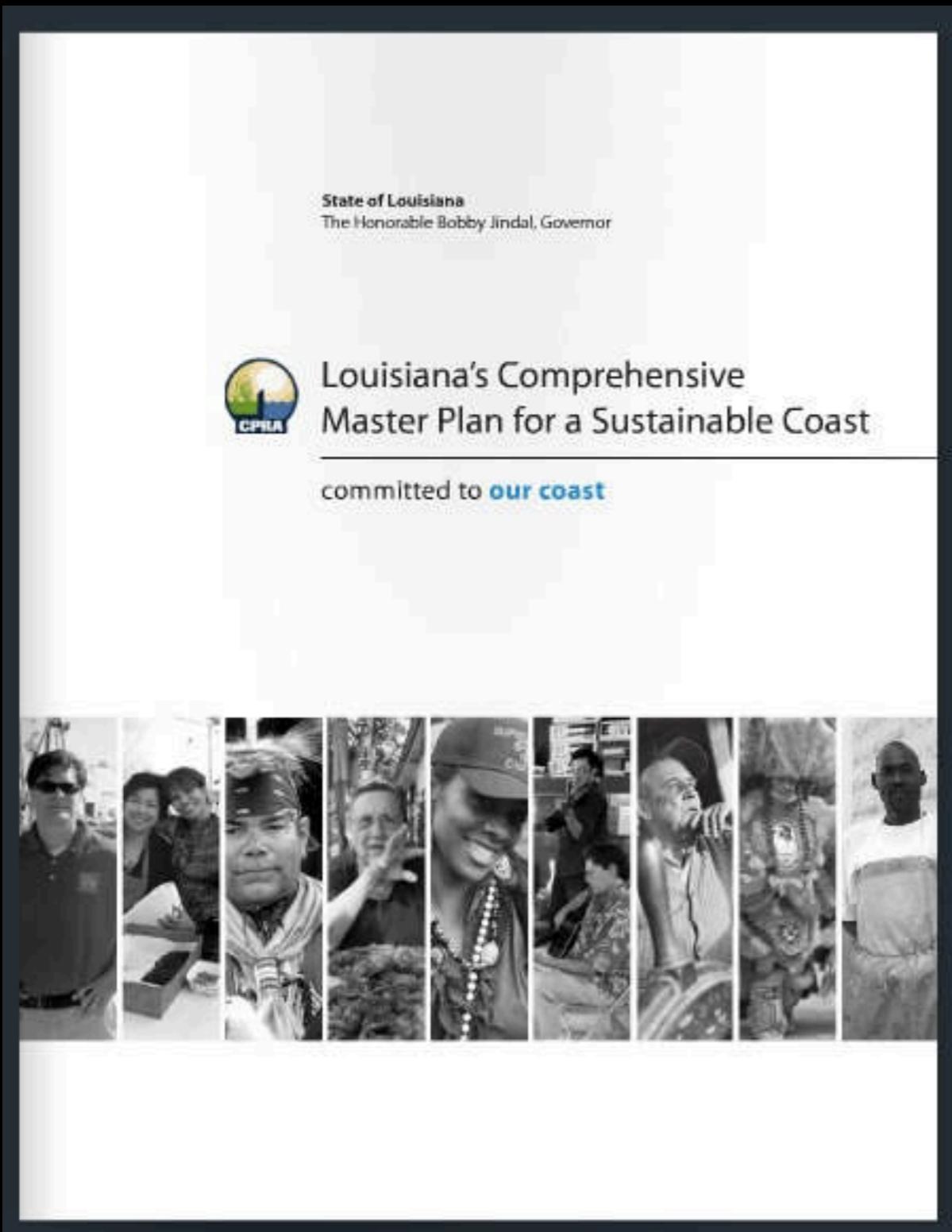
8:03 AM - 30 Aug 2014



Reply to @AntBejarano

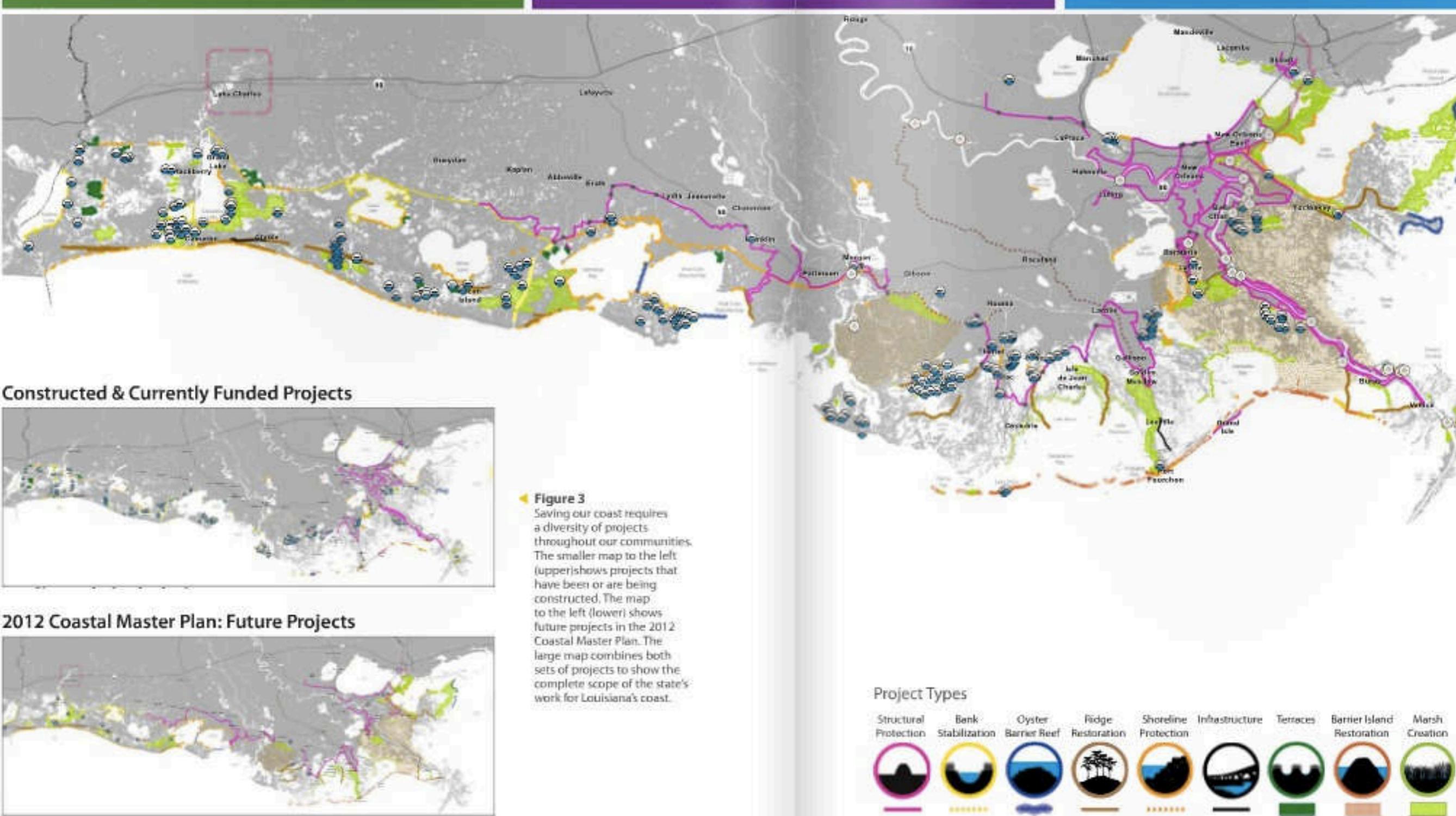
Part 2: A possible solution?

¿Hay una solución?



Responding to the Crisis

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



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

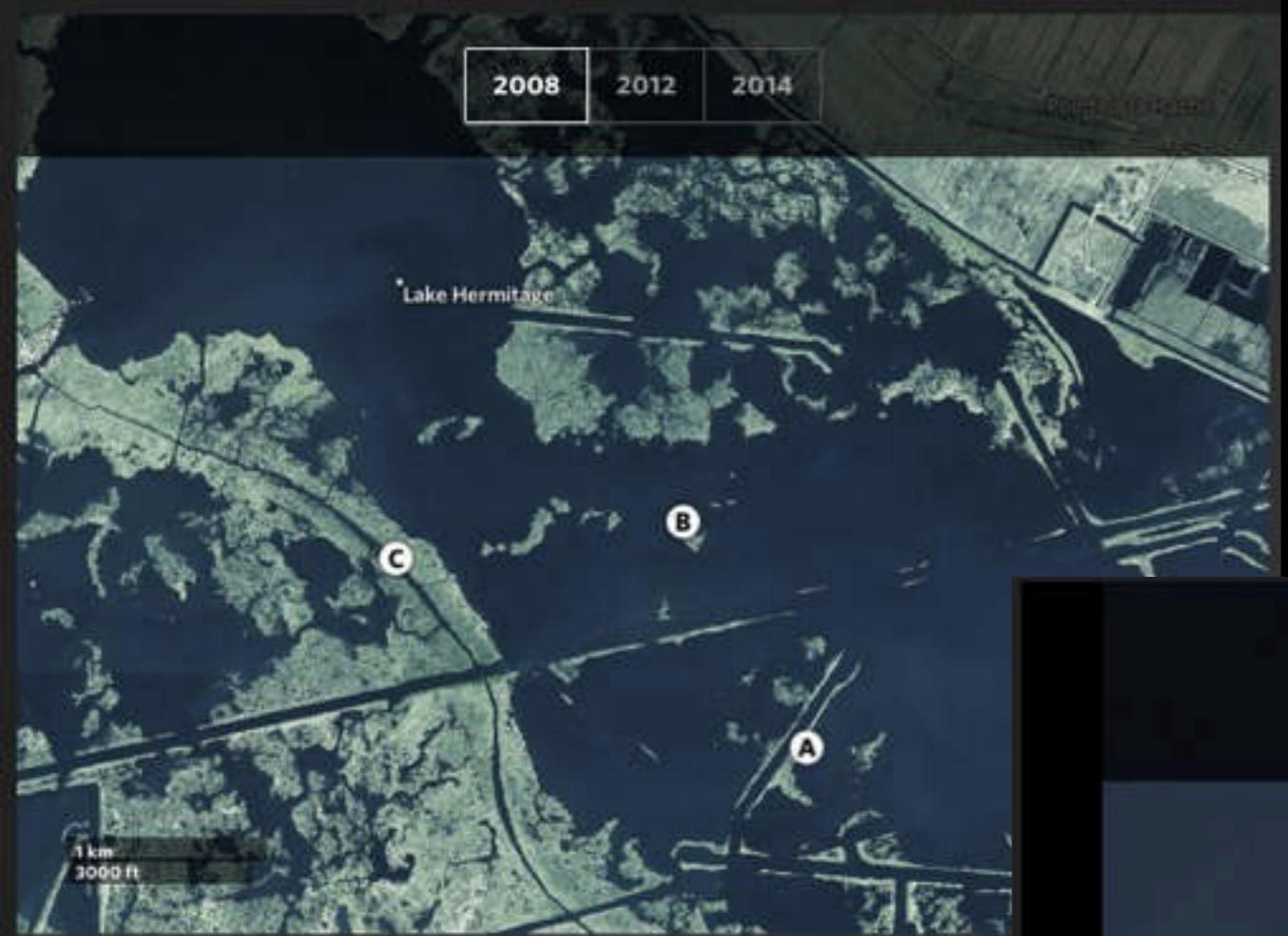
Problema: Imágenes desde 2012 hasta ahora

Lake Hermitage



Lake Hermitage





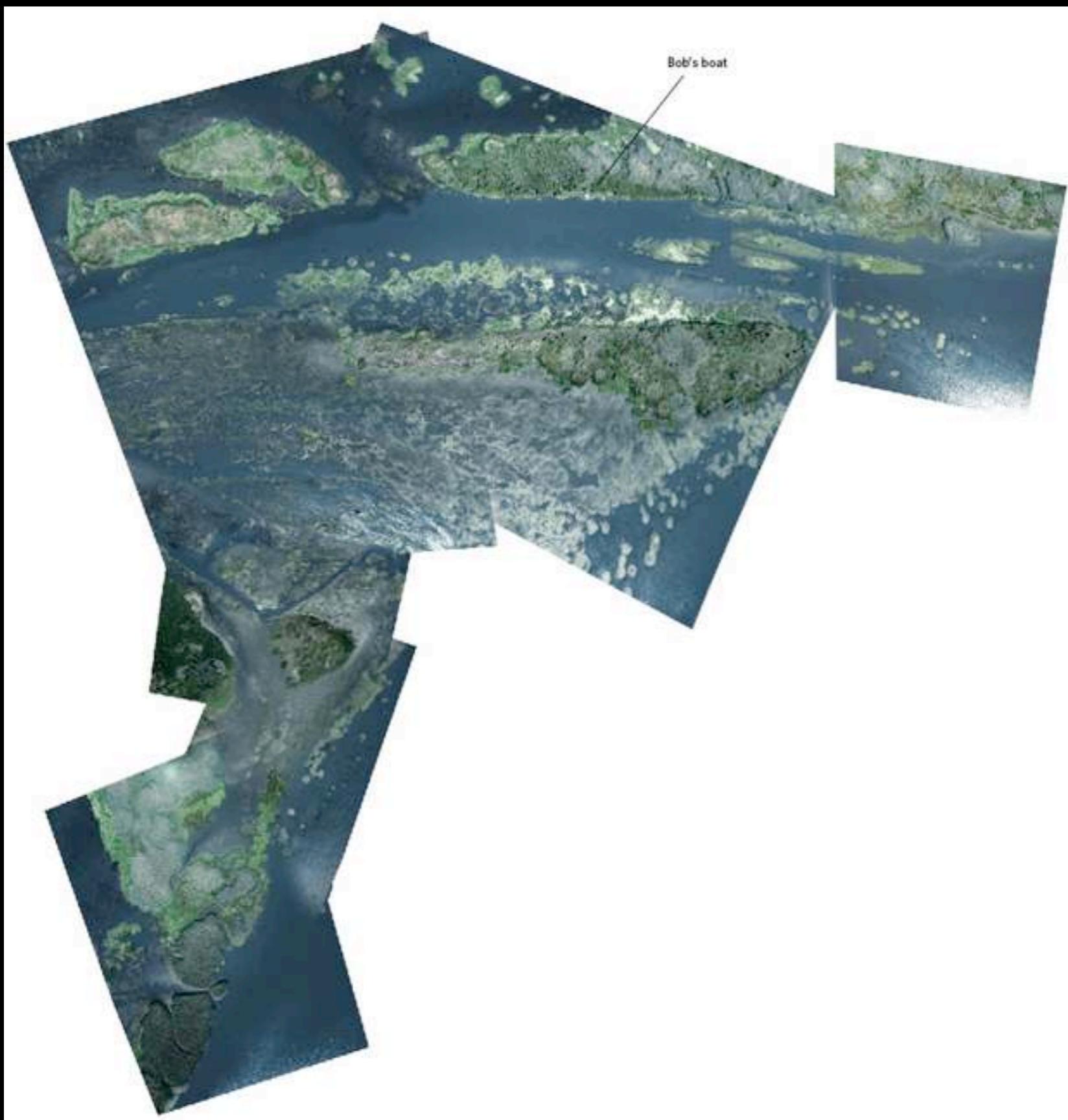
West Bay Diversion



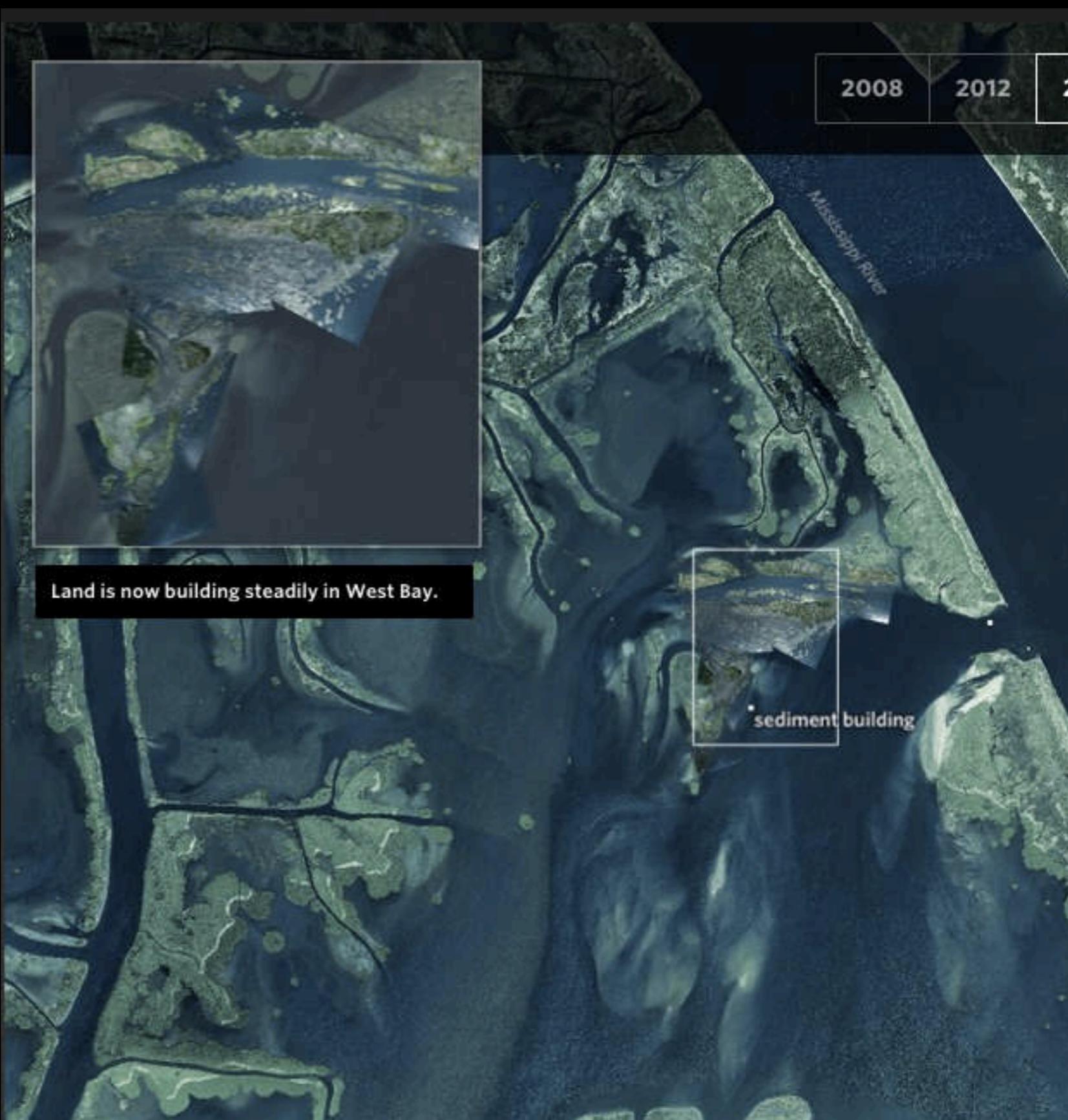
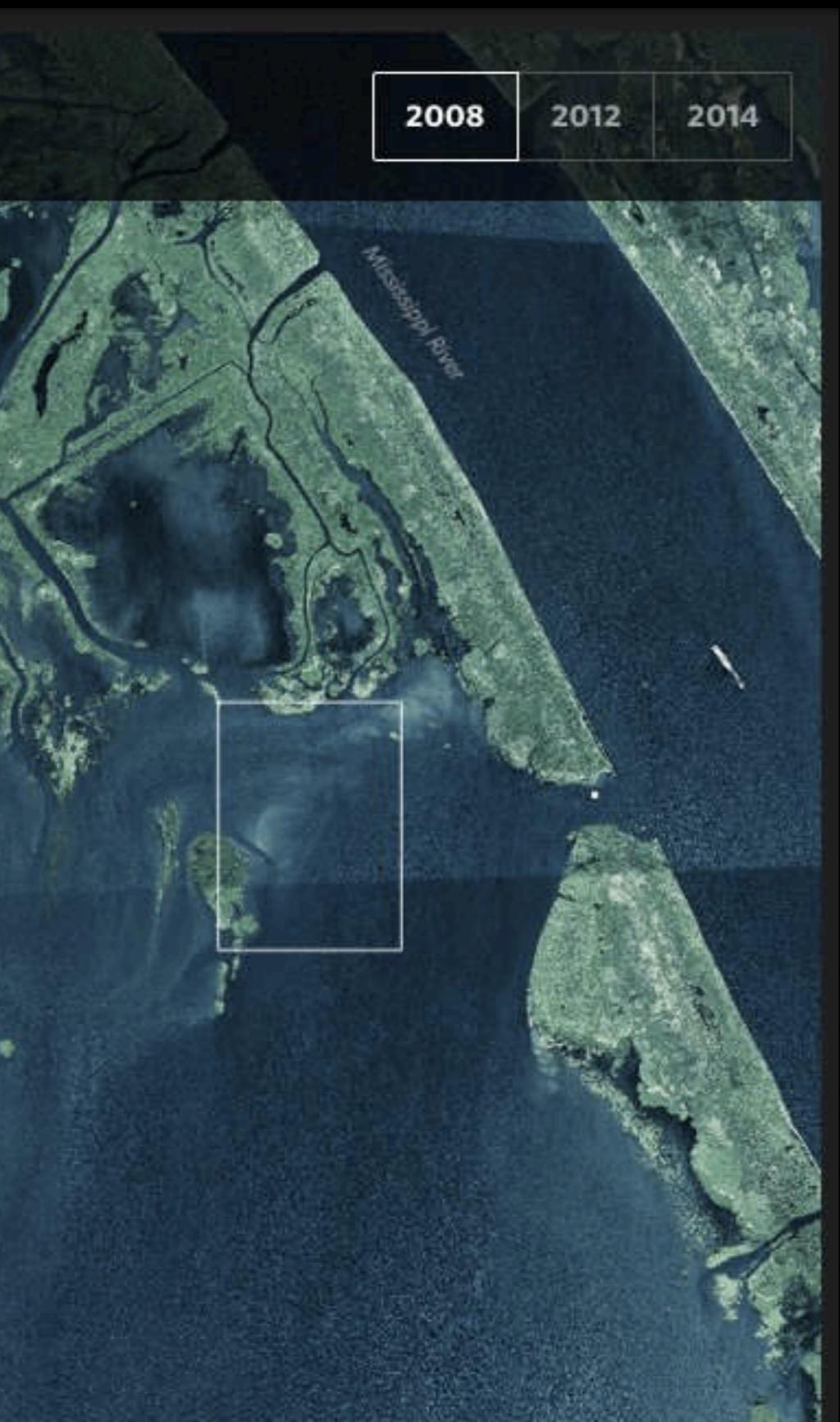
West Bay Diversion



West Bay Diversion



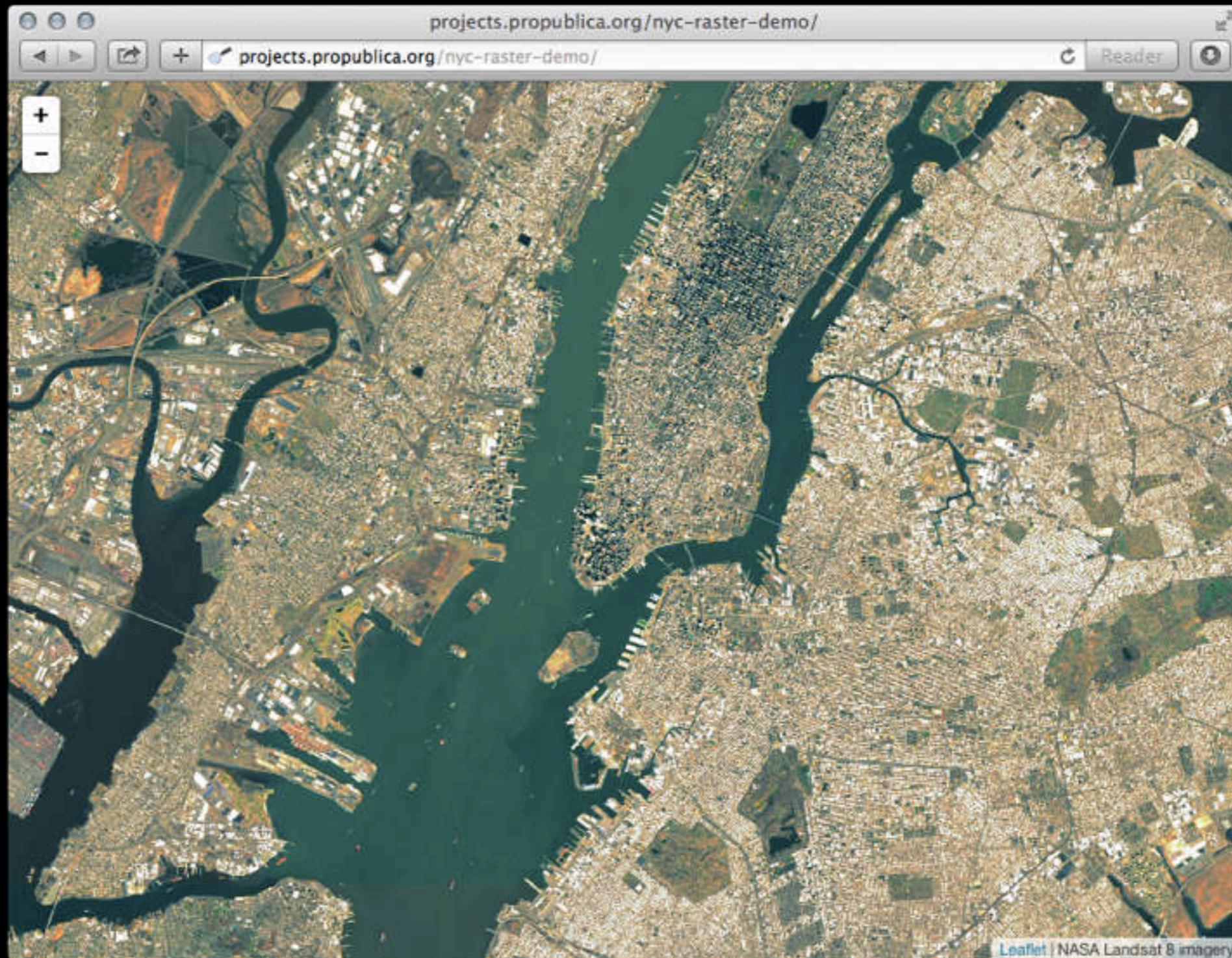
West Bay Diversion



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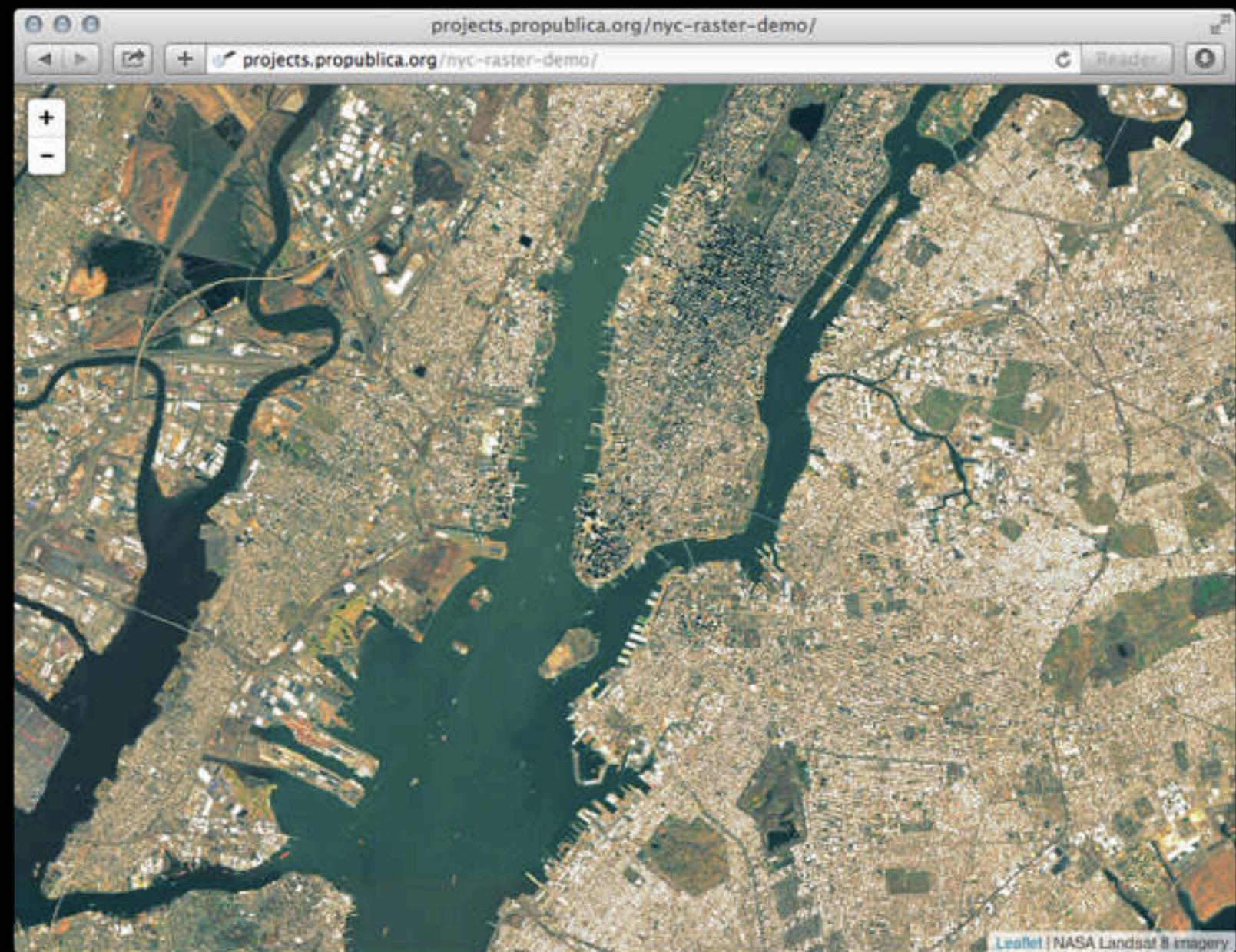
It's easier than you think



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!

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@A_L