News Applications at ProPublica

Al Shaw
al.shaw@propublica.org @A_L

Aplicaciones de Noticias en ProPublica

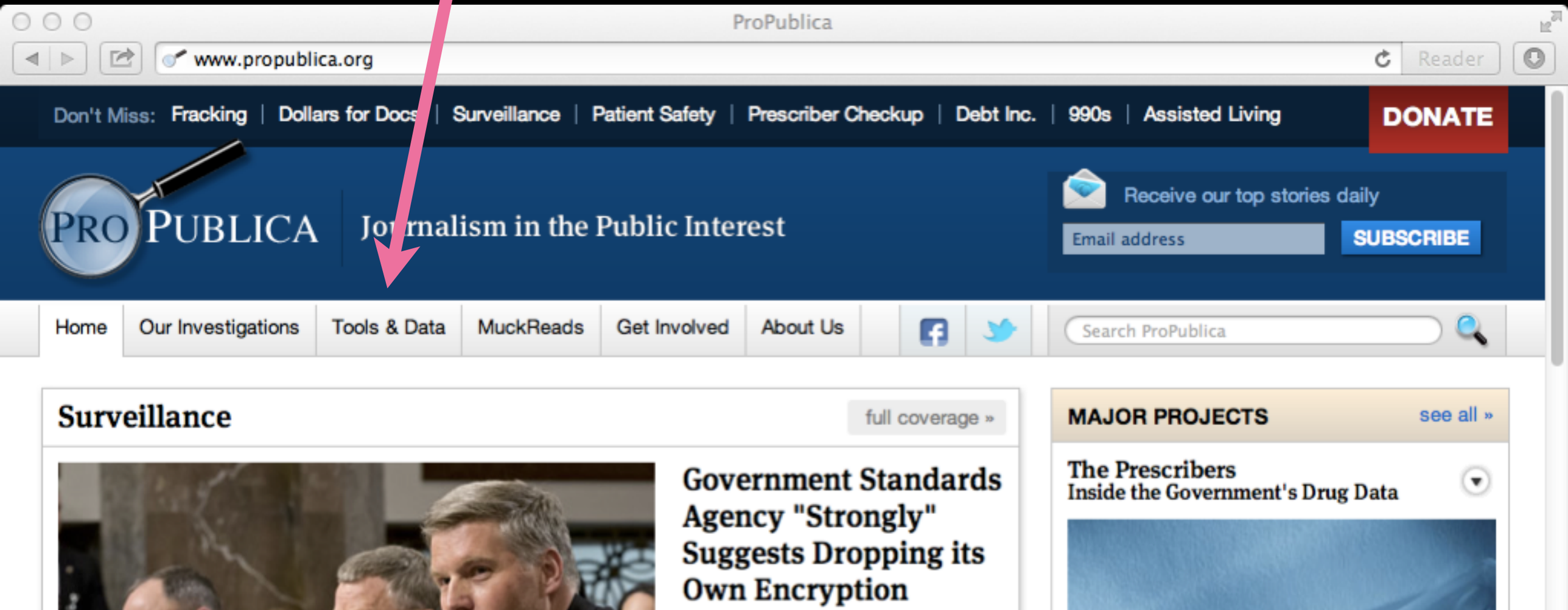
ProPublica

Born in 2008
2 Pulitzer Prizes

Nació en 2008. 2 Premios Pulitzer.

Tools & Data

Instrumentos y datos



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	*Cuentas y totales*
Limits of Excel & MySQL	*Límites de Excel/MySQL*
Absurd max/mins	*Maximos/minimos absurdos*
Blanks vs. nulls	*Blancos y nulos*
Misspellings	*Error de ortografía*
Data types (ask for a record layout)	*Tipos de datos*
Bad geocoding, duplicate city names	*Geocodificación mal*
Check against reports & hard copy	*Comprobar contra informes*
Call, don’t assume	*Llamar, no asumir*
Do random spot checks	*Verificar azar*

Data Bulletproofing: Jen LaFleur

http://j.mp/data-bulletproofing

Datos “a prueba de balas”

Schools Methodology

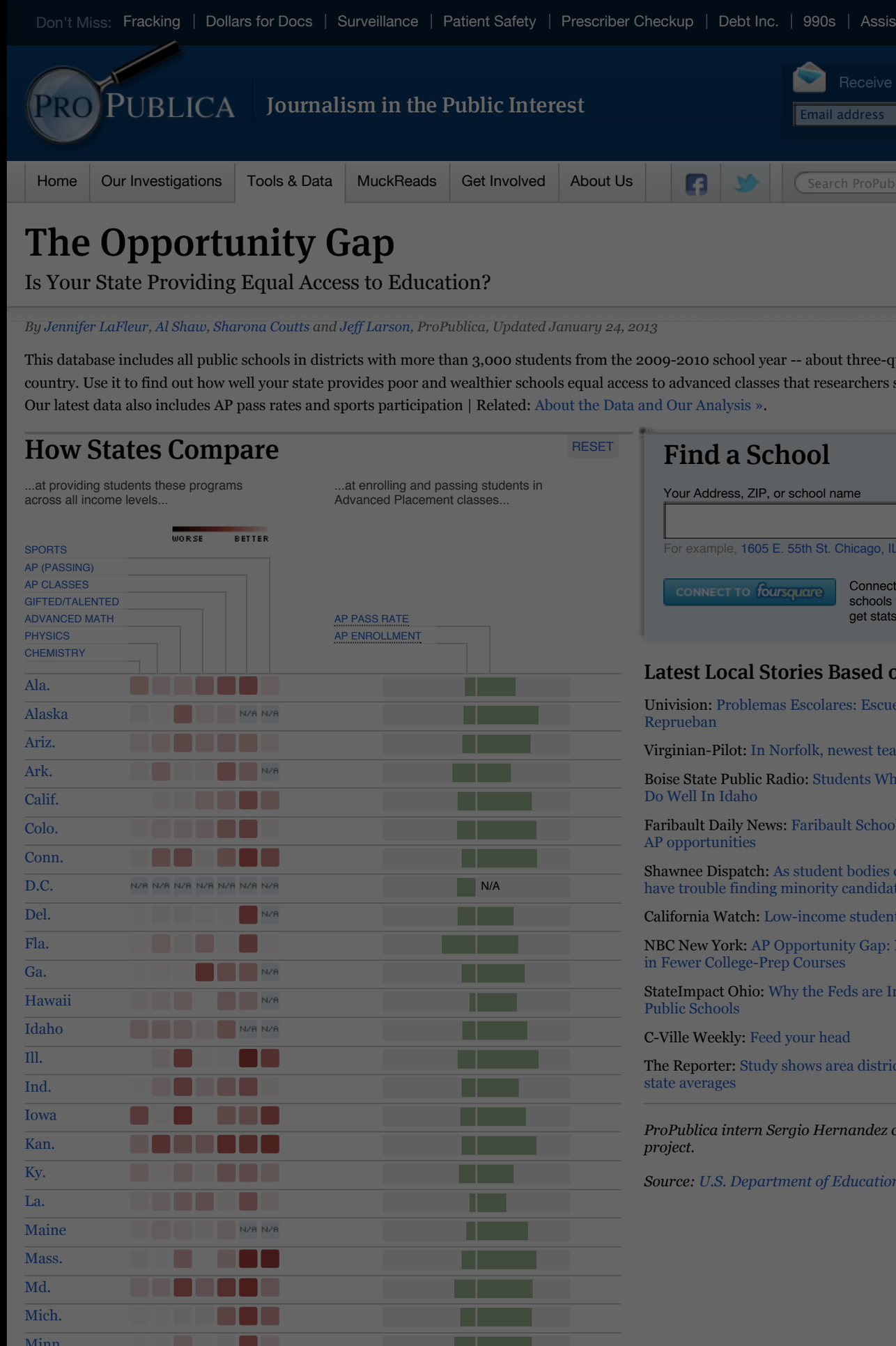
http://j.mp/schools-methodology

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



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

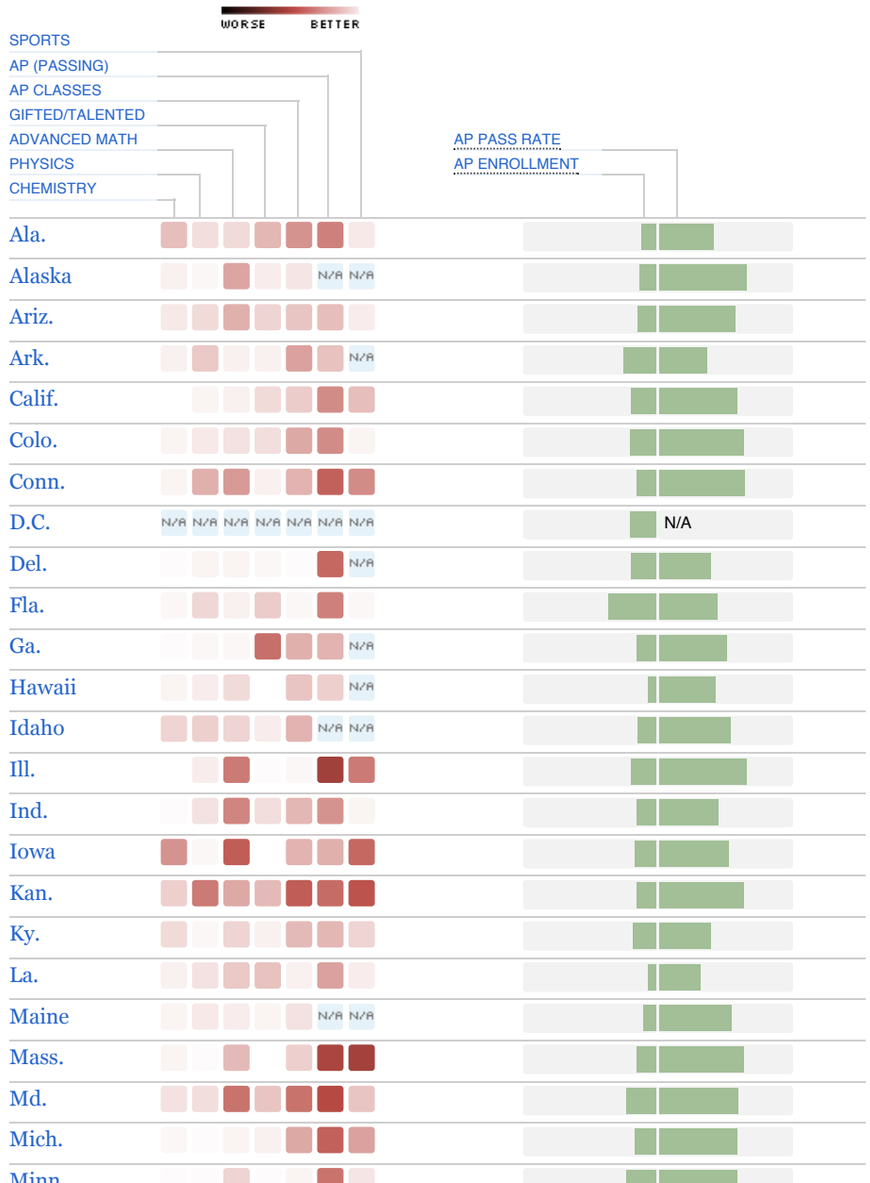
This database includes all public schools in districts with more than 3,000 students from the 2009-2010 school year -- about three-q country. Use it to find out how well your state provides poor and wealthier schools equal access to advanced classes that researchers Our latest data also includes AP pass 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...



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 o

Univision: Problemas Escolares: Escue Reprueban

Virginian-Pilot: In Norfolk, newest tea

Boise State Public Radio: Students Wh Do Well In Idaho

Faribault Daily News: Faribault Schoo AP opportunities

Shawnee Dispatch: As student bodies have trouble finding minority candidat

California Watch: Low-income student

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

StateImpact Ohio: Why the Feds are I Public Schools

C-Ville Weekly: Feed your head

The Reporter: Study shows area distric state averages

ProPublica intern Sergio Hernandez project.

Source: U.S. Department of Education

nity Gap

qual Access to Education?

Tweet 128

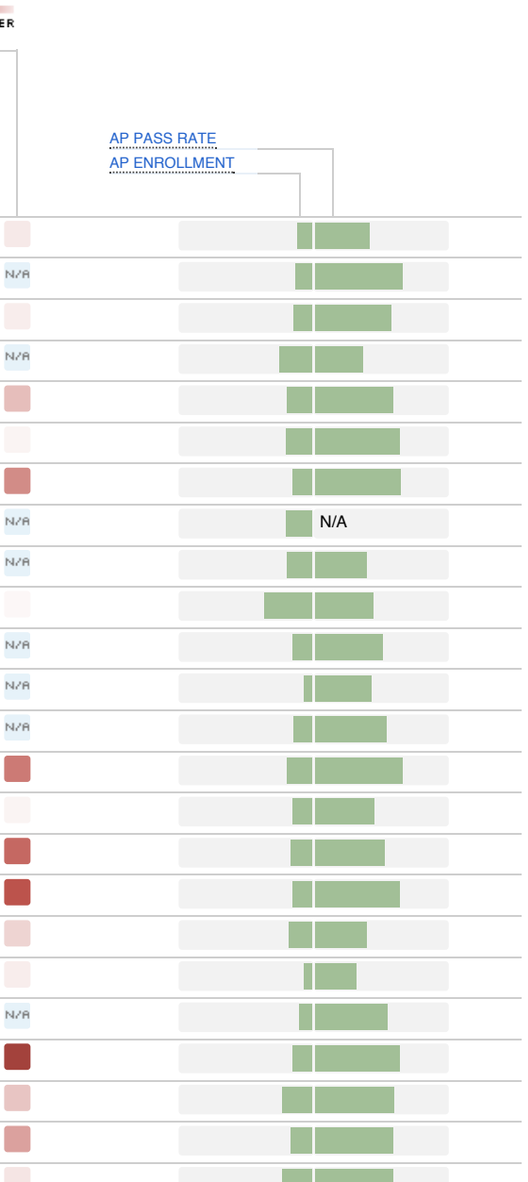
a Coutts and Jeff Larson, ProPublica, Updated January 24, 2013

hools in districts with more than 3,000 students from the 2009-2010 school year -- about three-quarters of all such students in the your state provides poor and wealthier schools equal access to advanced classes that researchers say will help them later in life. | s rates and sports participation | Related: About the Data and Our Analysis ».

re RESET

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

AP PASS RATE
AP ENROLLMENT


N/A
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News apps generate stories

Aplicaciónes 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

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**

	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...

State Average District Average

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	

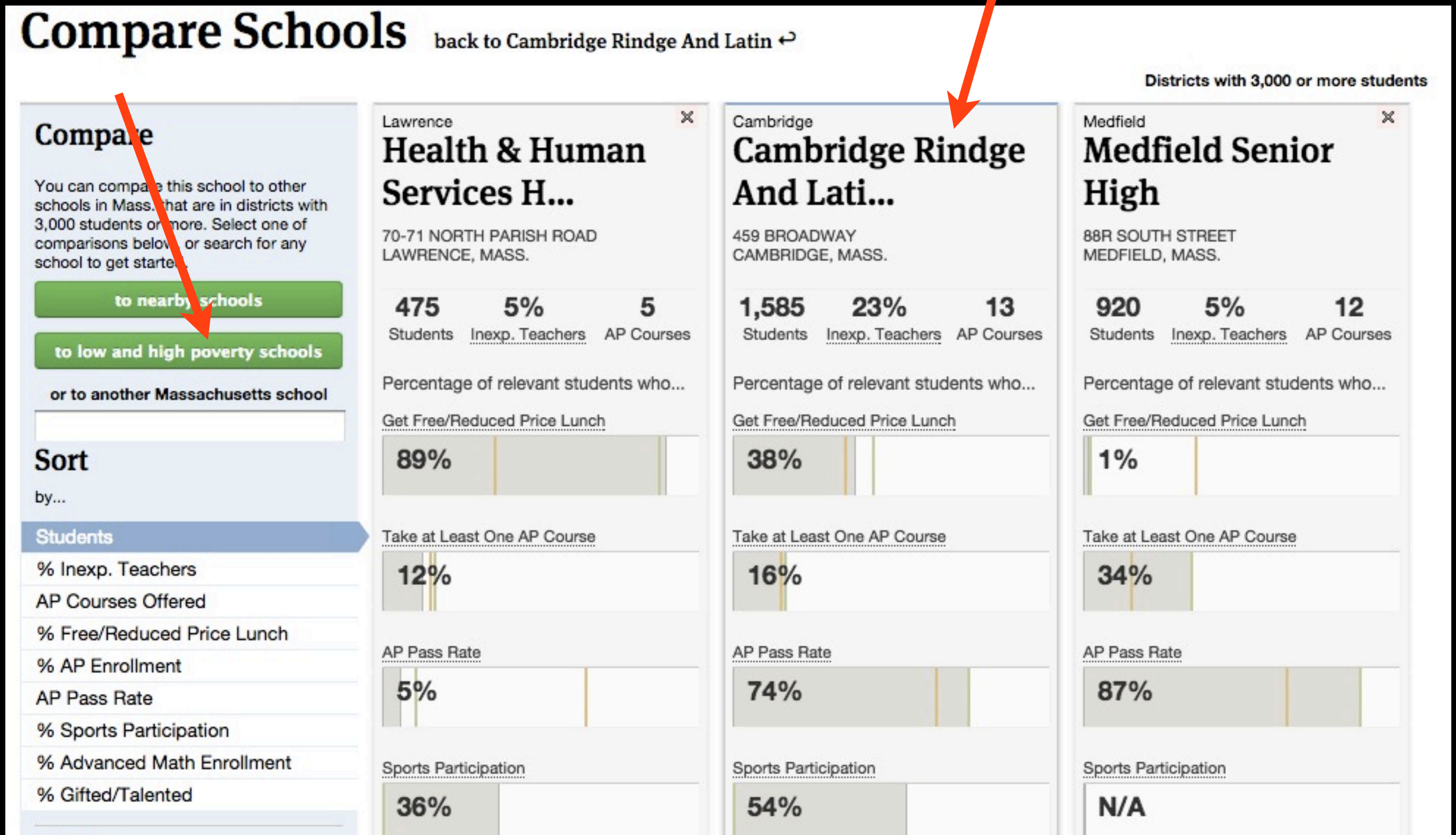
Cambridge Rindge And Latin, part of the Cambridge district, is located in Cambridge, Massachusetts. The school reports an enrollment number of 1,585 students in grades nine through 12, and it has 147 teachers on staff.

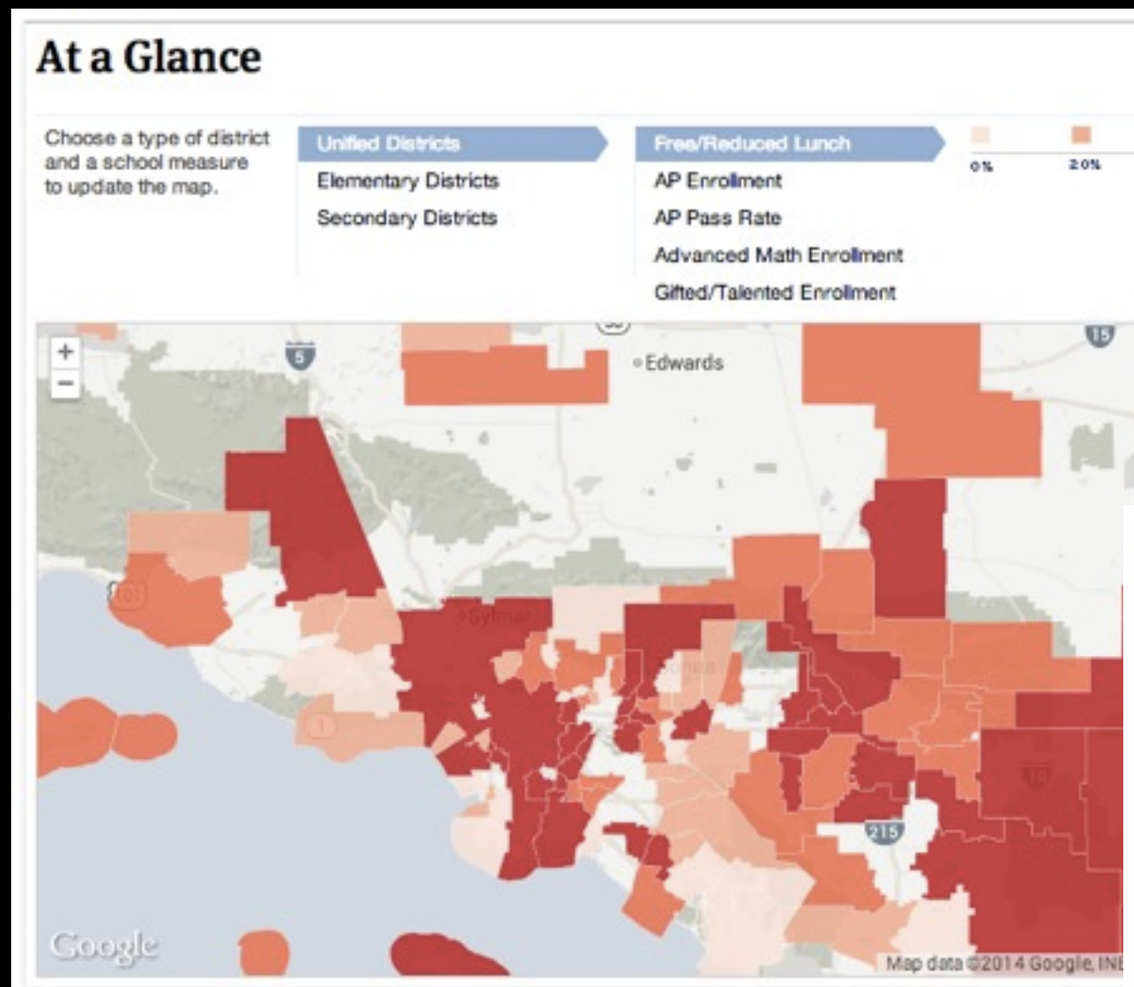
Cambridge Rindge And Latin is above the state average but below the district average in terms of the percentage of its students who qualify for free or reduced-price lunches. On average, 35 percent of students in Massachusetts qualify for free or reduced-price lunch programs, whereas 38 percent of Cambridge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

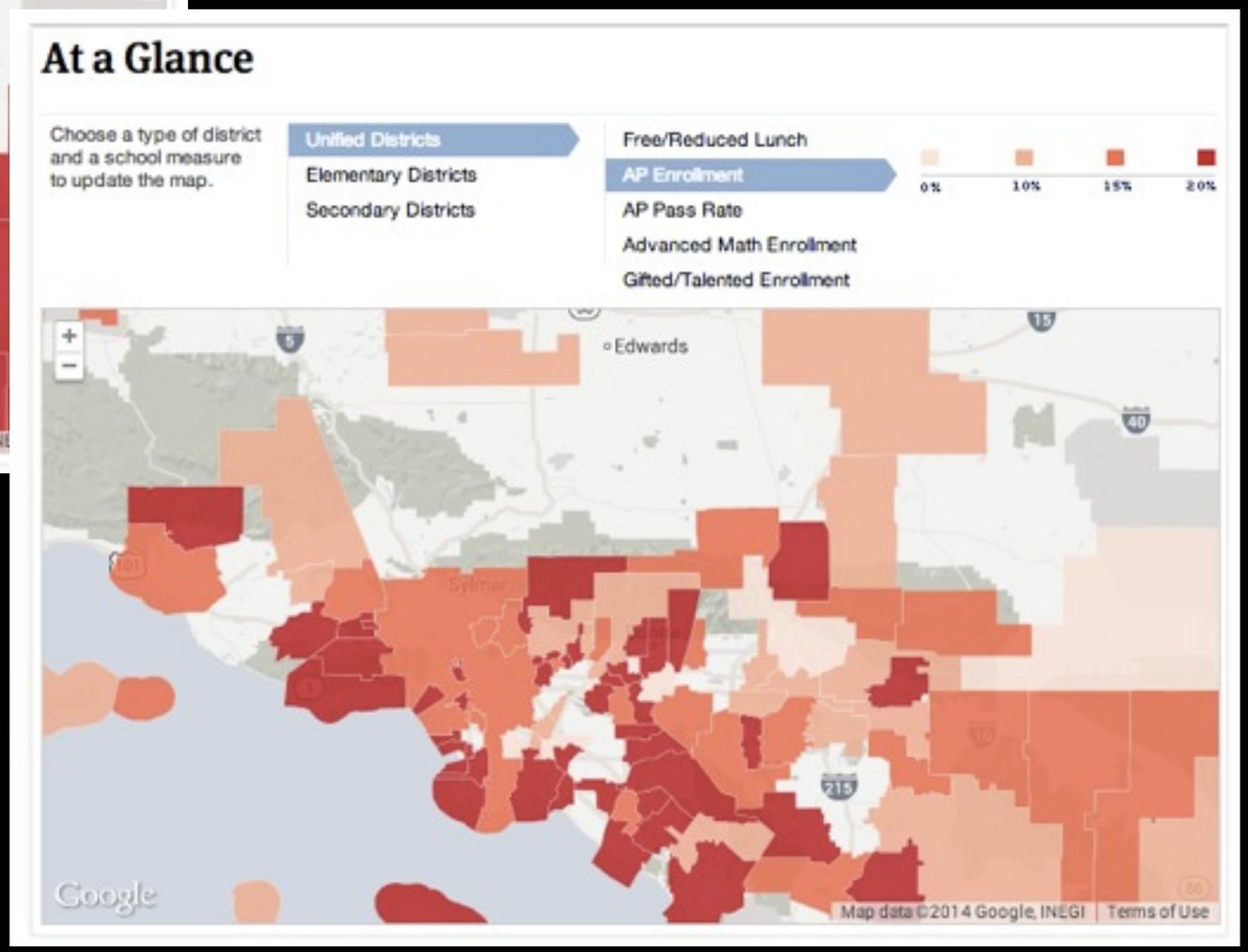
ProPublica's analysis found that all too often, states and schools provide poor students fewer educational programs like Advanced Placement, gifted and talented programs, and advanced math and science classes. Studies have linked participation in these programs with better outcomes later in life. Our 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

Aplicaciónes de noticias generan historias





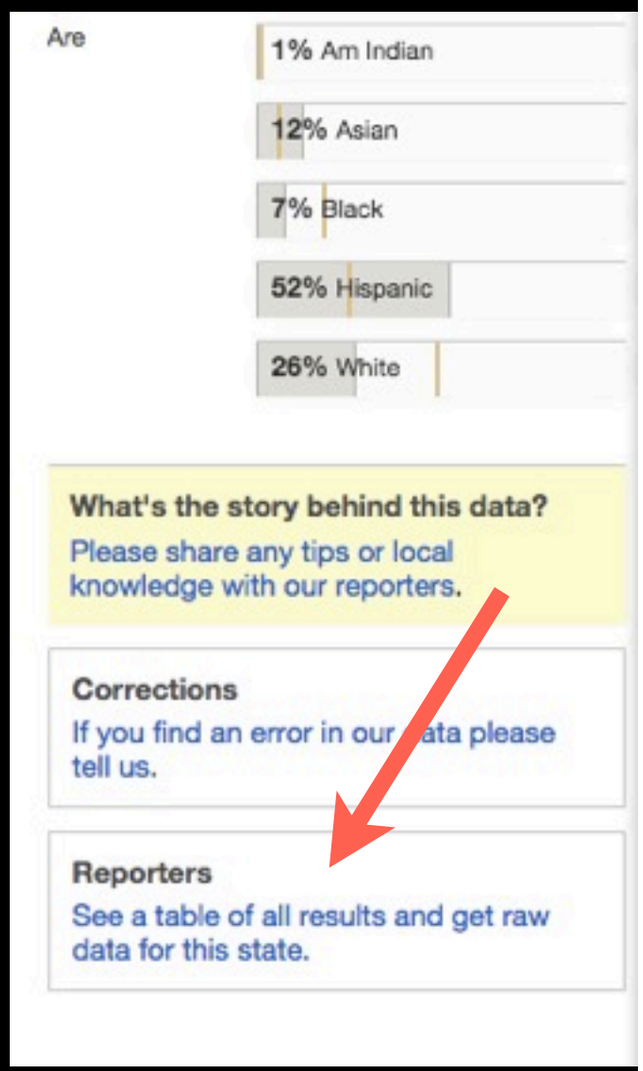


Dos visitas de Sureste California

Two views of Southern California

News apps generate stories

Aplicaciónes de noticias generan historias

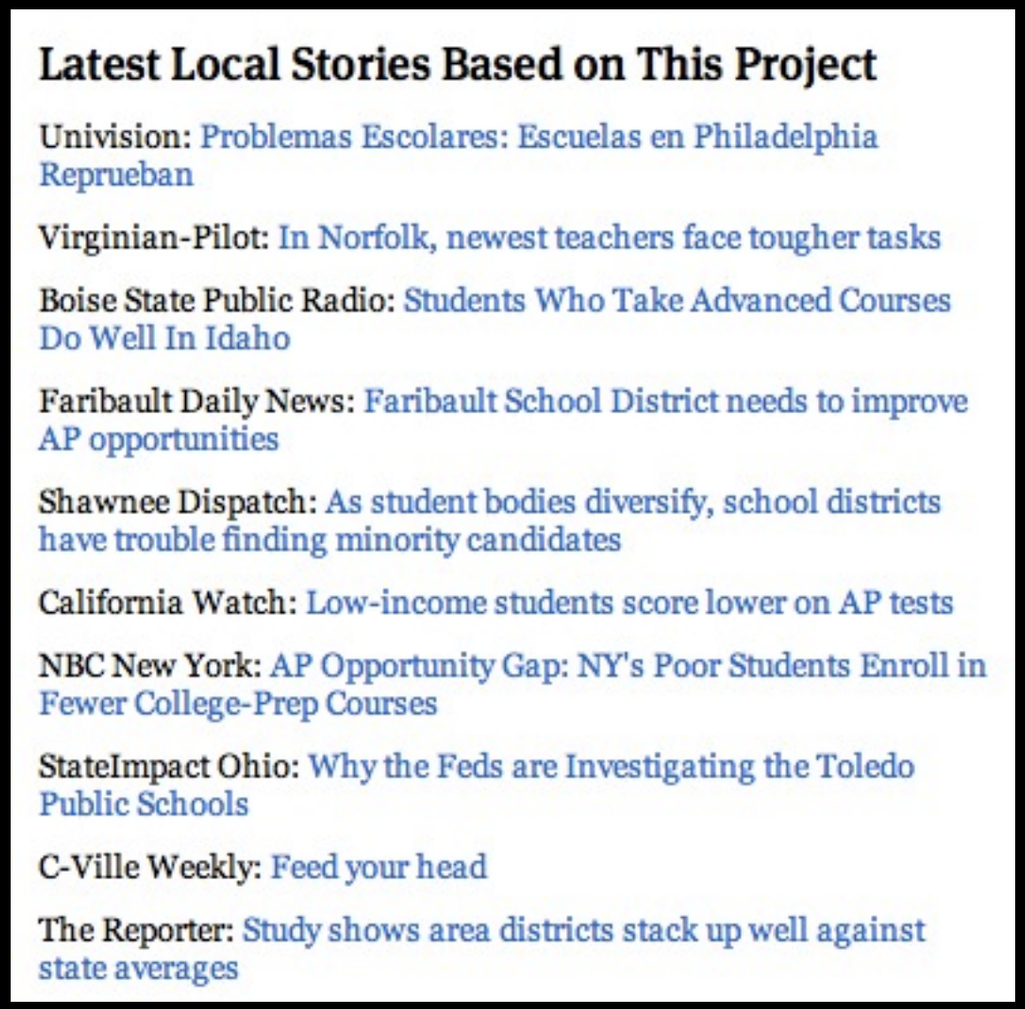


School Districts in Calif. (Download CSV)

ID	Name	Students	Number of AP Courses	Total Teachers	% Gifted/Talented Enrollment	% Students Enrolled in at Least One AP Class	% Advanced Math Enrollme
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			

News apps generate stories

Aplicaciónes 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

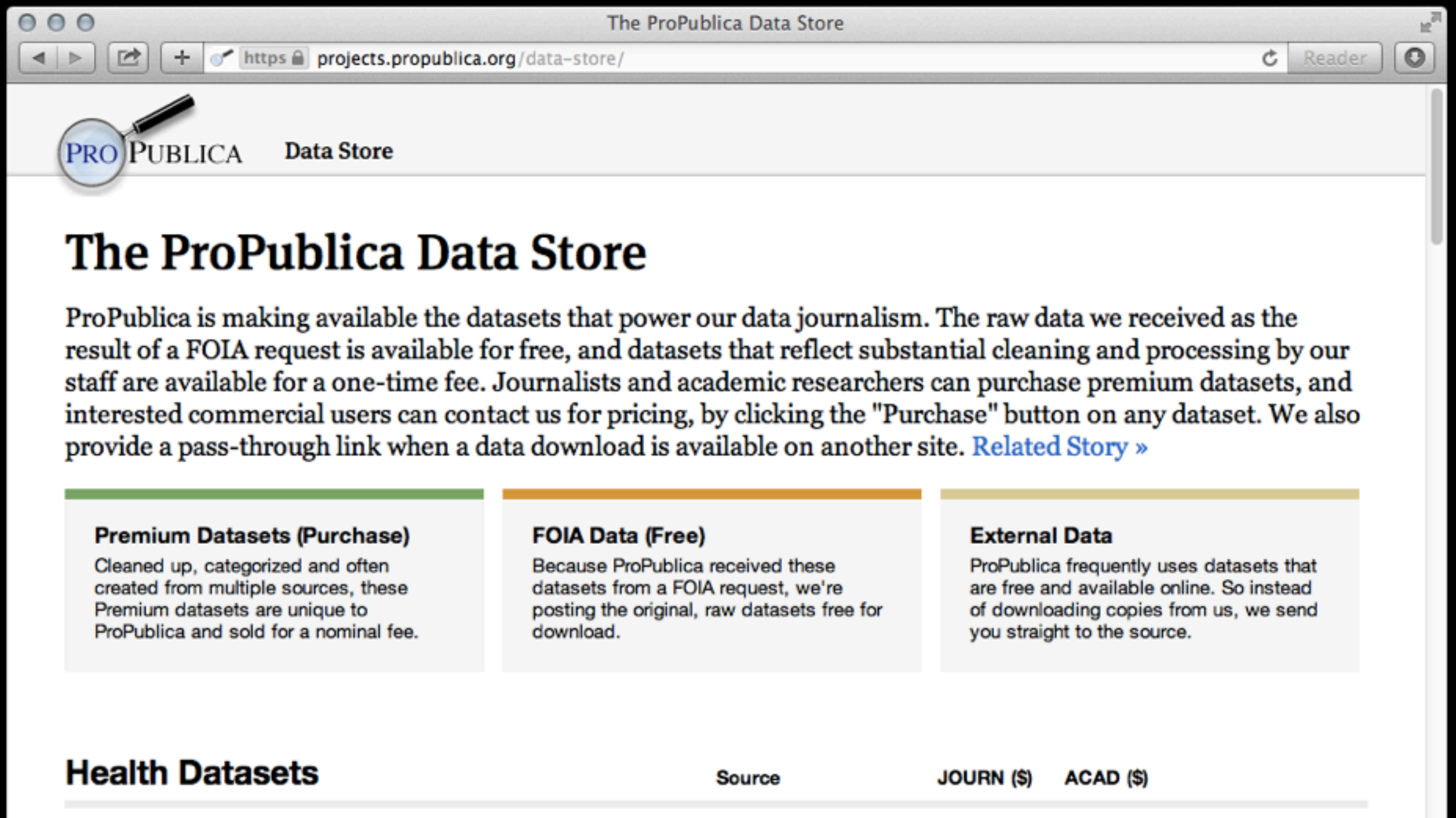
C-Ville Weekly: Feed your head

The Reporter: Study shows area districts stack up well against state averages

Data Store

Tienda de datos

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



Stories generate news apps which generate stories

Historias generan aplicaciónes 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.

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-fo
Romney campaign official in 2008 — now h
Restore Our Future and American Crossroa
independent group that spoke up in defens
Romney's candidacy in January. Finally, th
Crossroads Media, a media placement firm
American Crossroads and other Republican

The overlapping roles and relationships of t
in Suite 555 at 66 Canal Center Plaza offer a
the fluidity and ineffectual enforcement of r
to prevent candidates from coordinating th

RECOMMEND
TWITTER

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)

The New York Times

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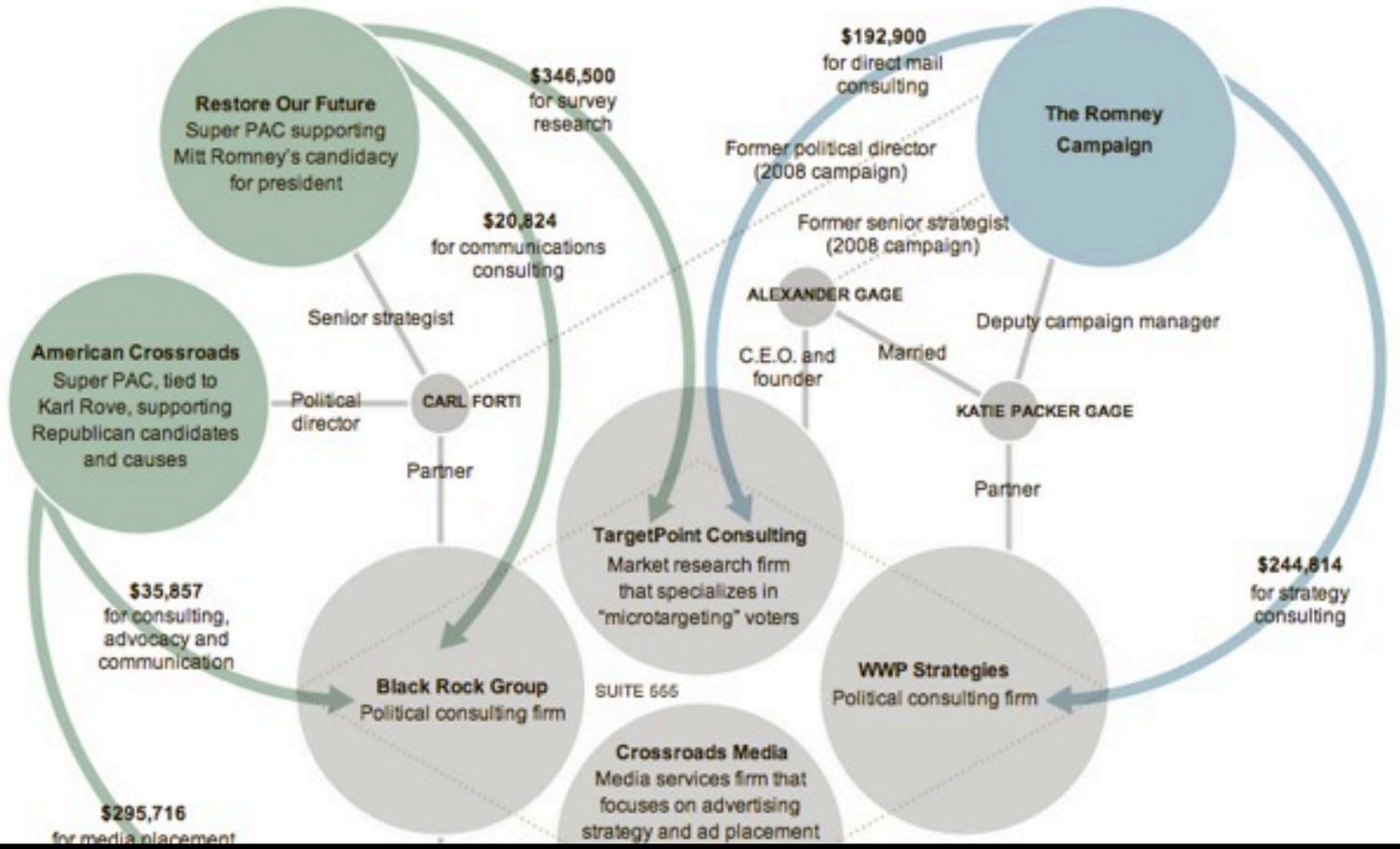
Published: February 25, 2012

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.

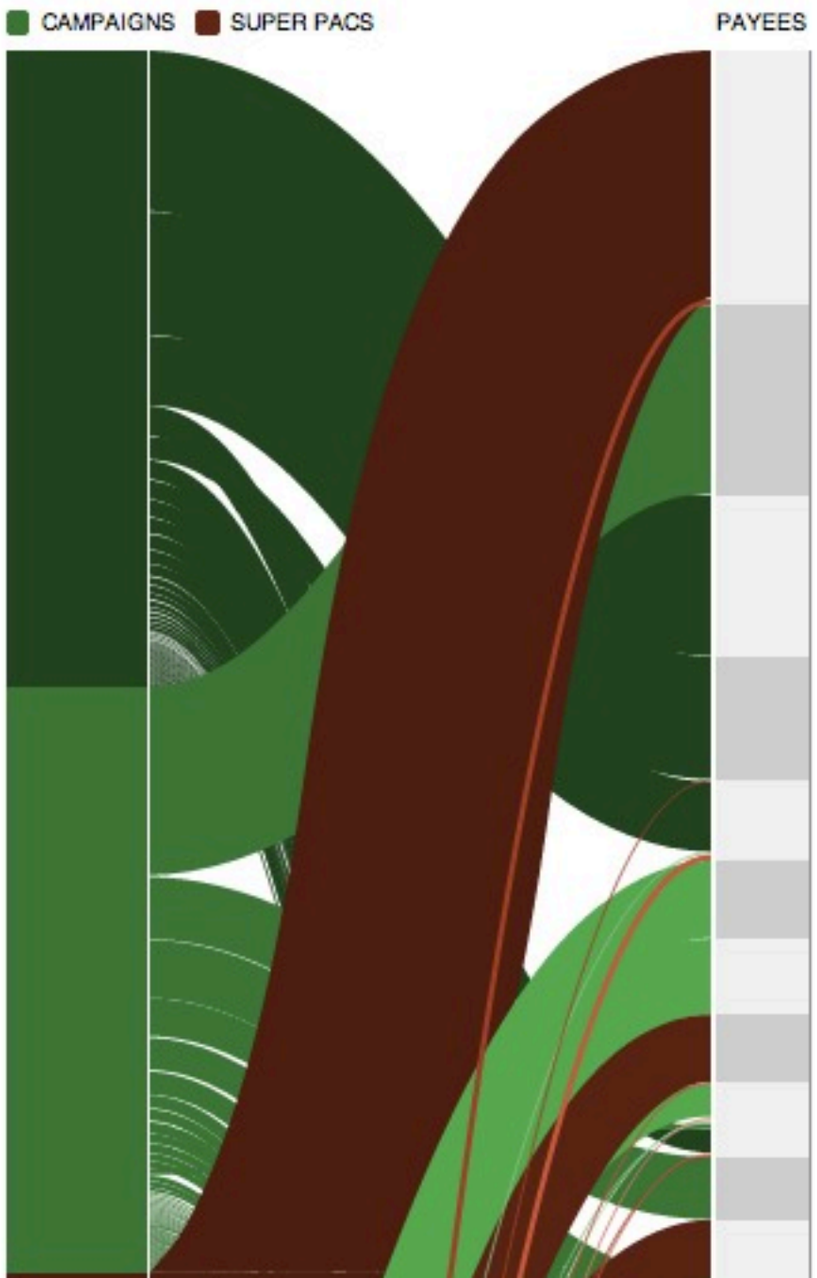
Tweet 426 Like 436 E-mail Print

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.



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 Coie	$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
PDQ Printing	$220,917
Meyer Teleservices	$217,543
Interior Investments, LLC	$198,597

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.

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

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

SimpleTiles

At a Glance

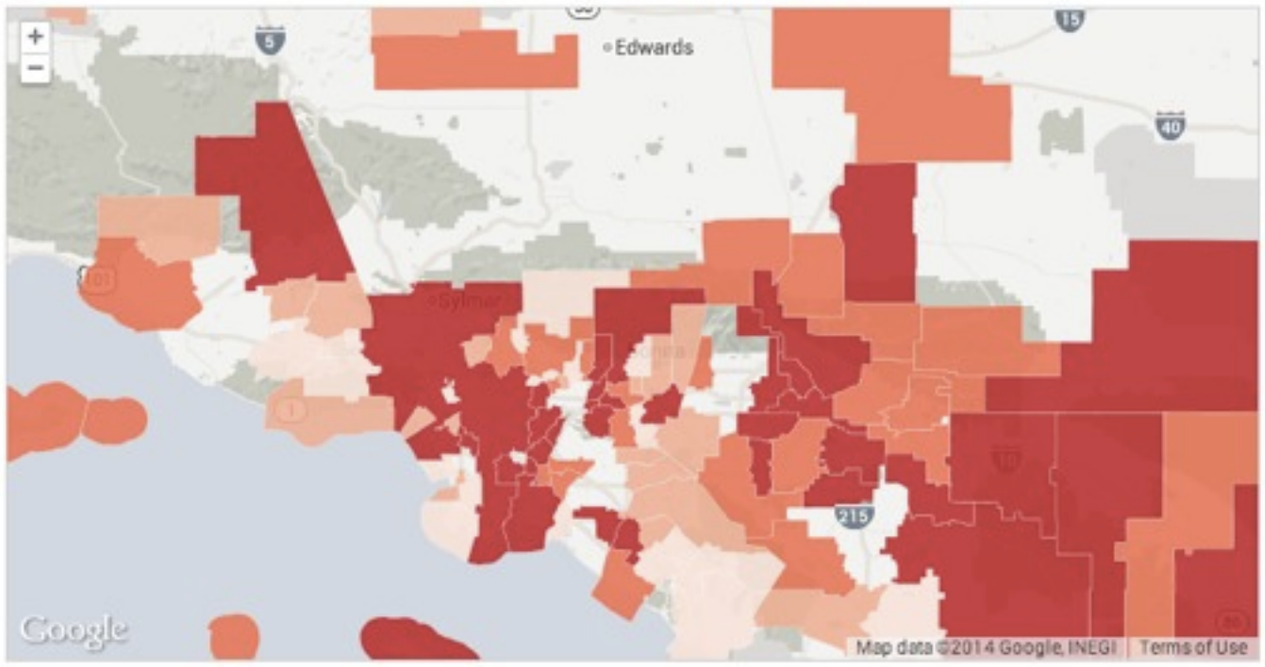
Choose a type of district and a school measure to update the map.

Unified Districts
- Elementary Districts
- Secondary Districts

Free/Reduced Lunch
- AP Enrollment
- AP Pass Rate
- Advanced Math Enrollment
- Gifted/Talented Enrollment

0% 20% 40% 60%

Gifted/Talented Enrollment



StateFace

HUFFPOST POLITICS **ELECTION DASHBOARD**

State ↑	Electoral votes	Obam
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

projects.propublica.org/louisiana/

Reader

PRO PUBLICA | THE LENS

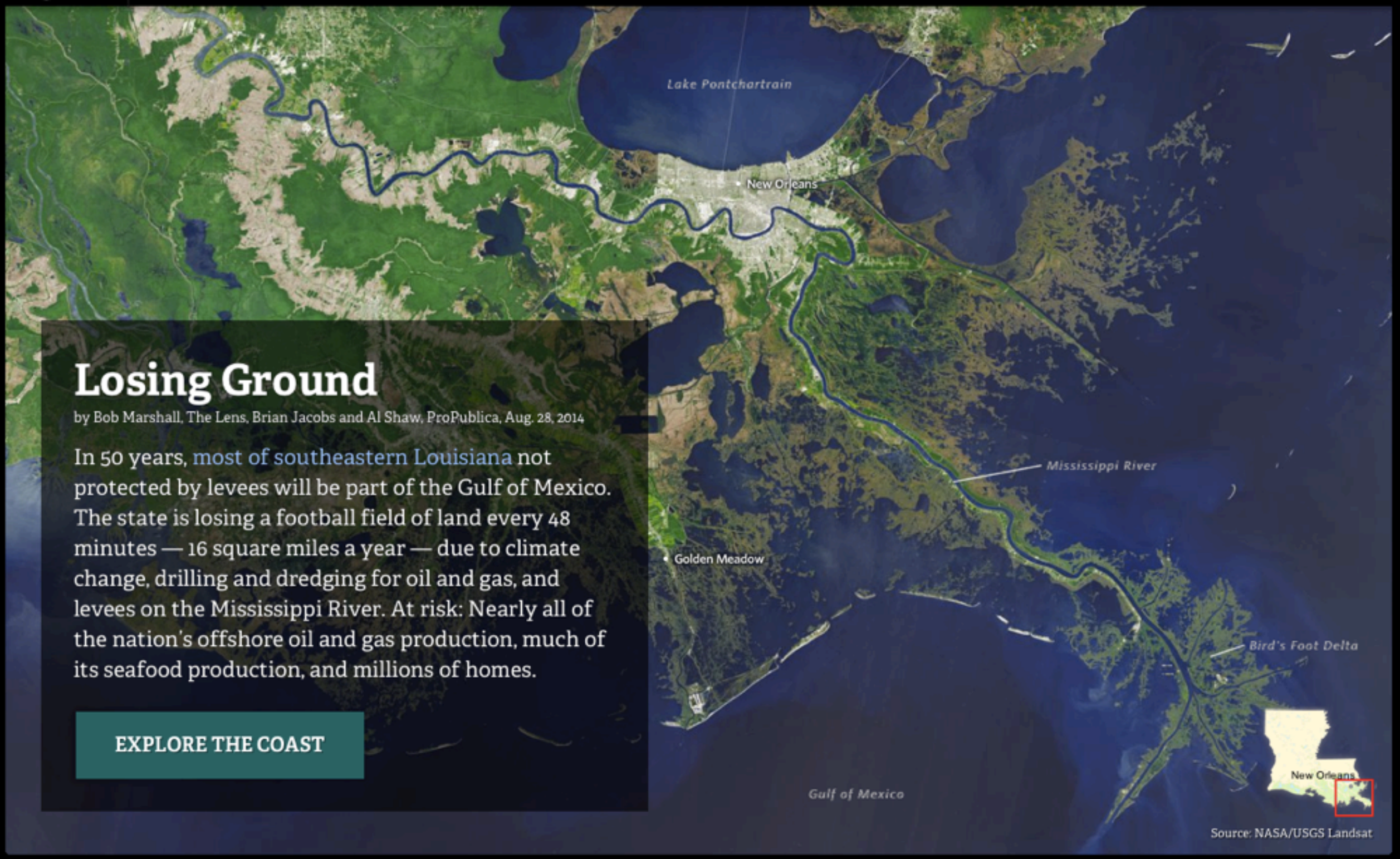
DONATE TO PROPUBLICA | DONATE TO THE LENS

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

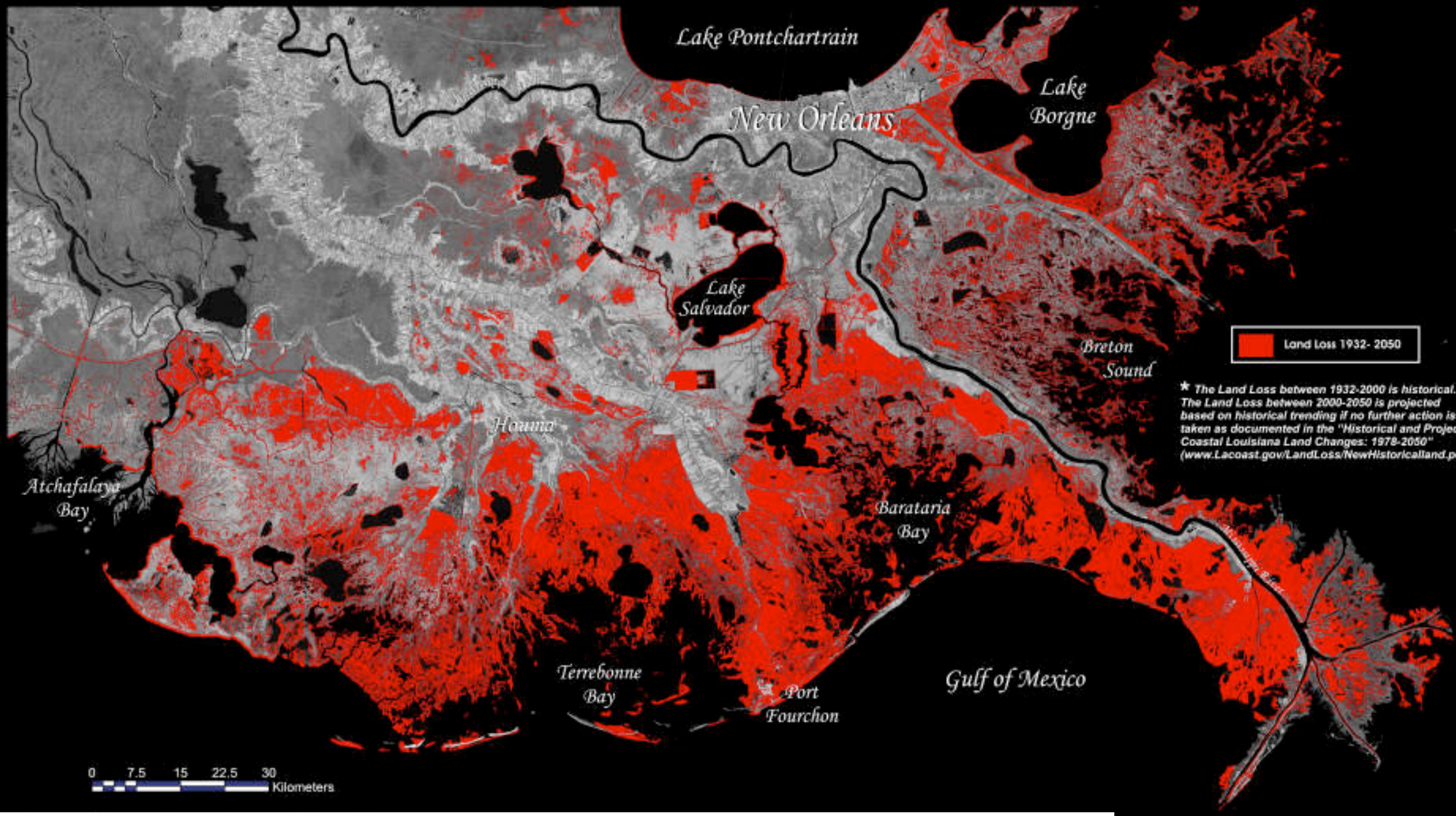


Two Documents

Dos Documentos

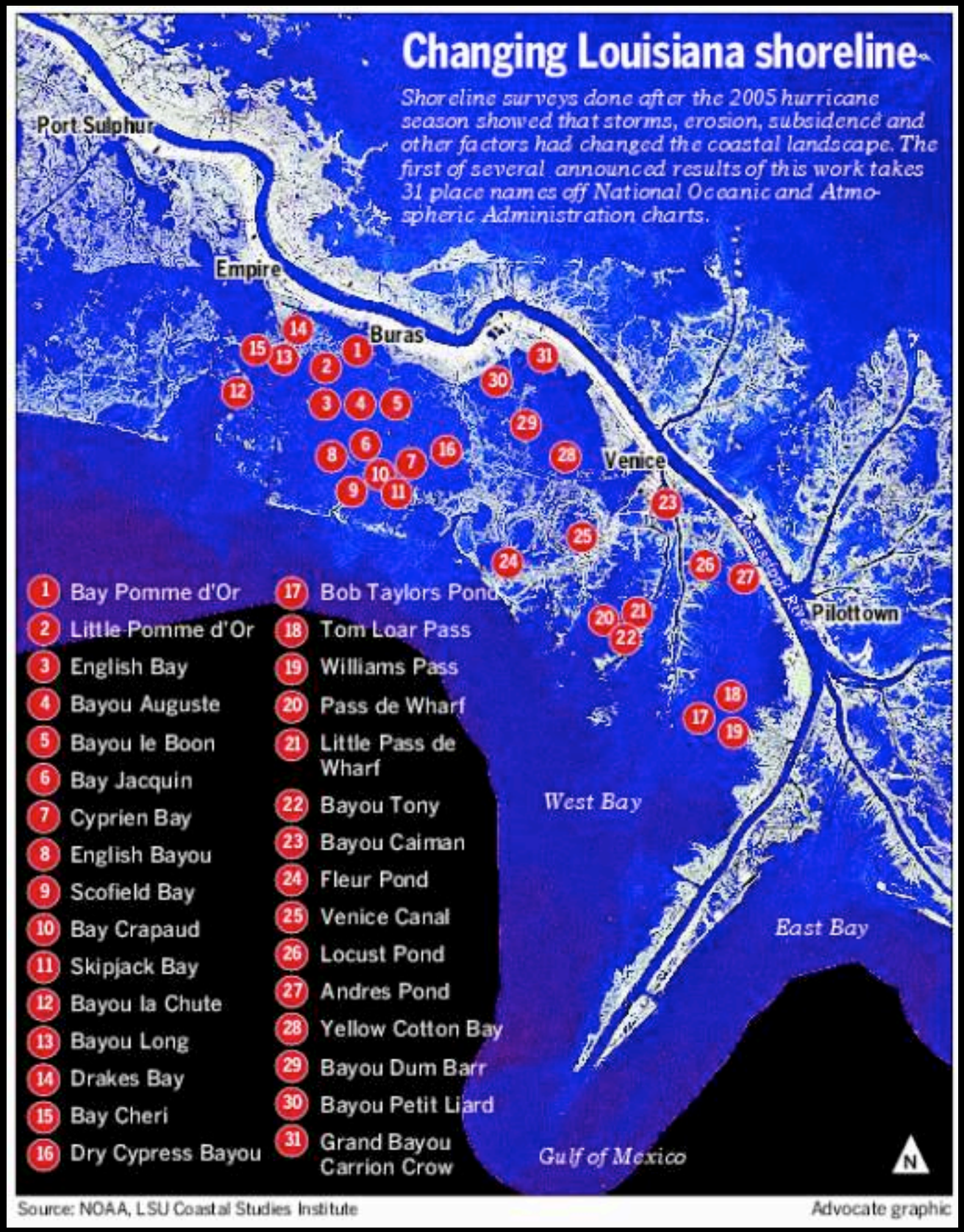
Southeast Louisiana Land Loss

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



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

primarily
Louisiana



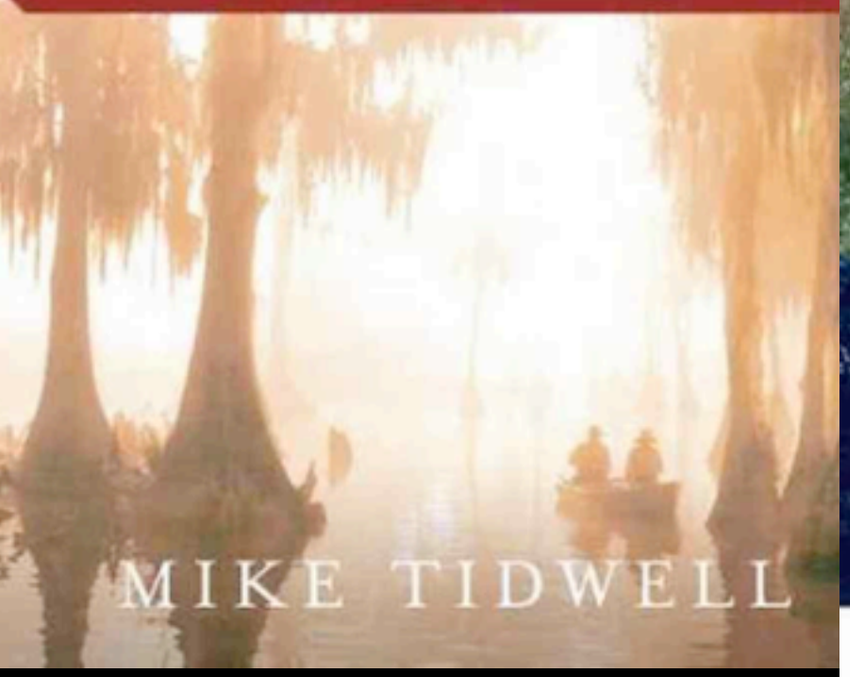
http://theadvocate.com/news/neworleans/5827922-148/areas-gone-on-noaa-charts

"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 EFFEC
OF THE DEEPWATER HORIZON OIL SPILL



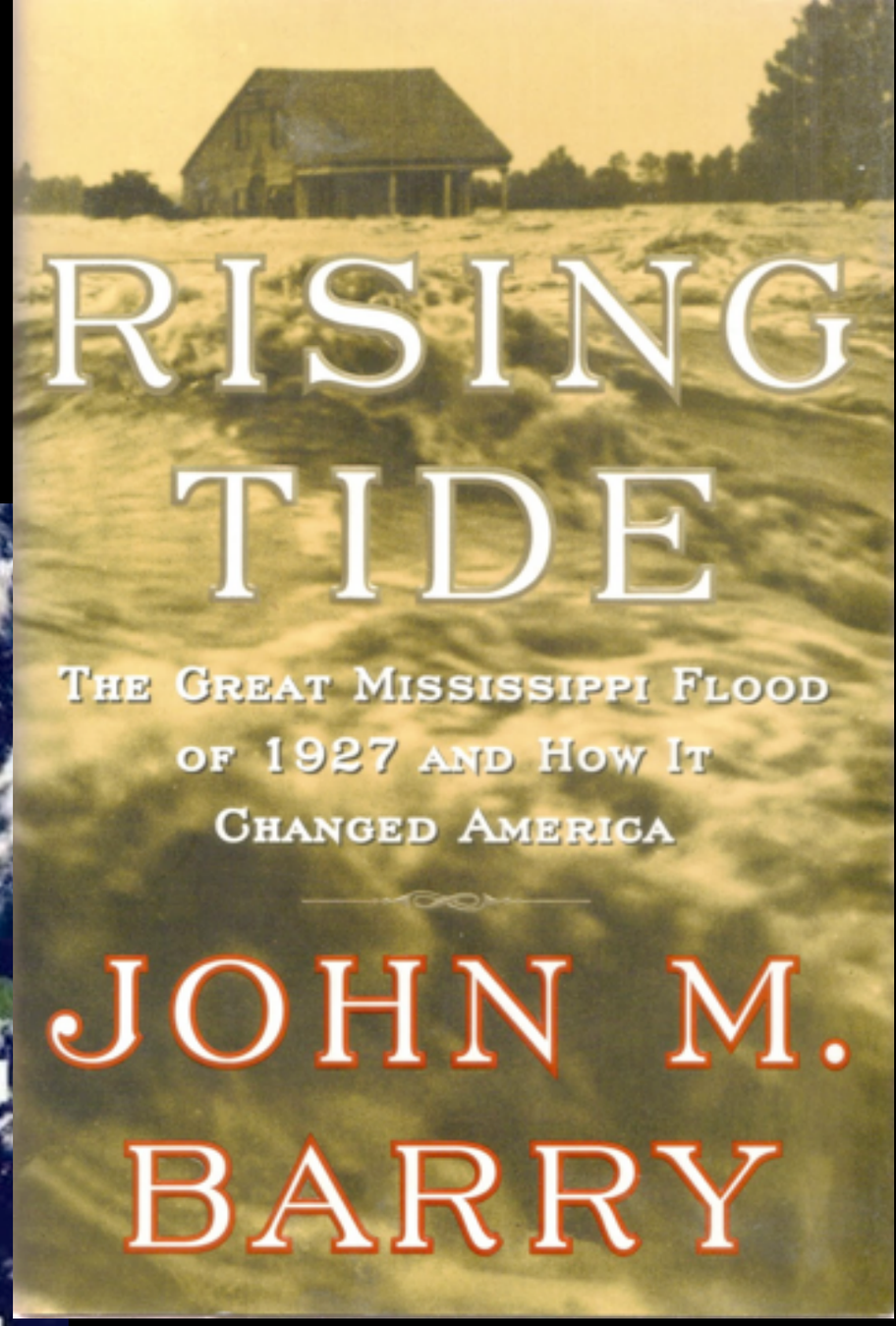
MIKE TIDWELL

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

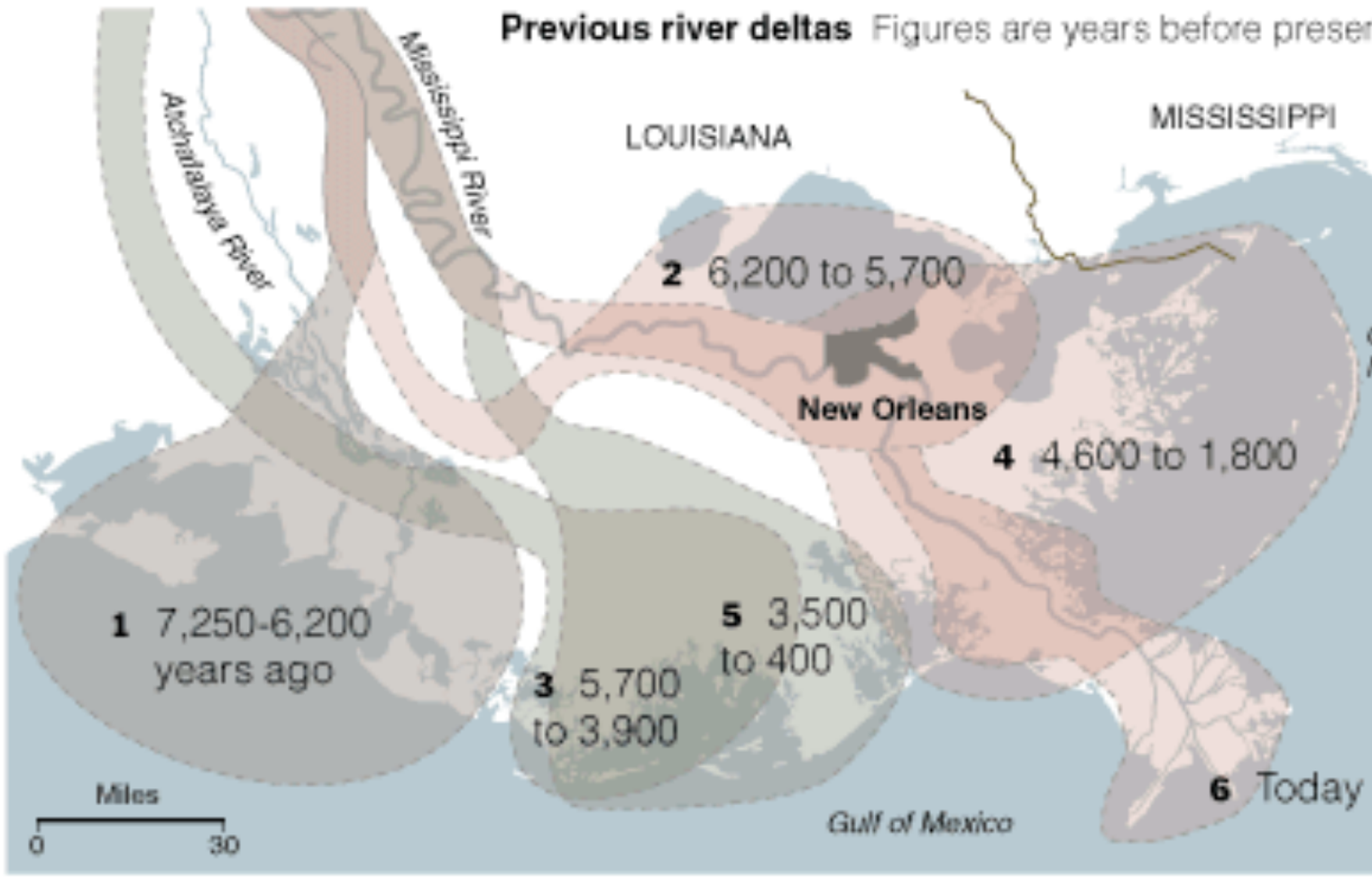
During the past 7,000 years, much of the Louisiana coast was created as the mouth of the Mississippi River meandered across the region filling the coastline with sediment. Now, levees and dams are preventing much of that sediment from replenishing the coast.

DRAINAGE BASIN

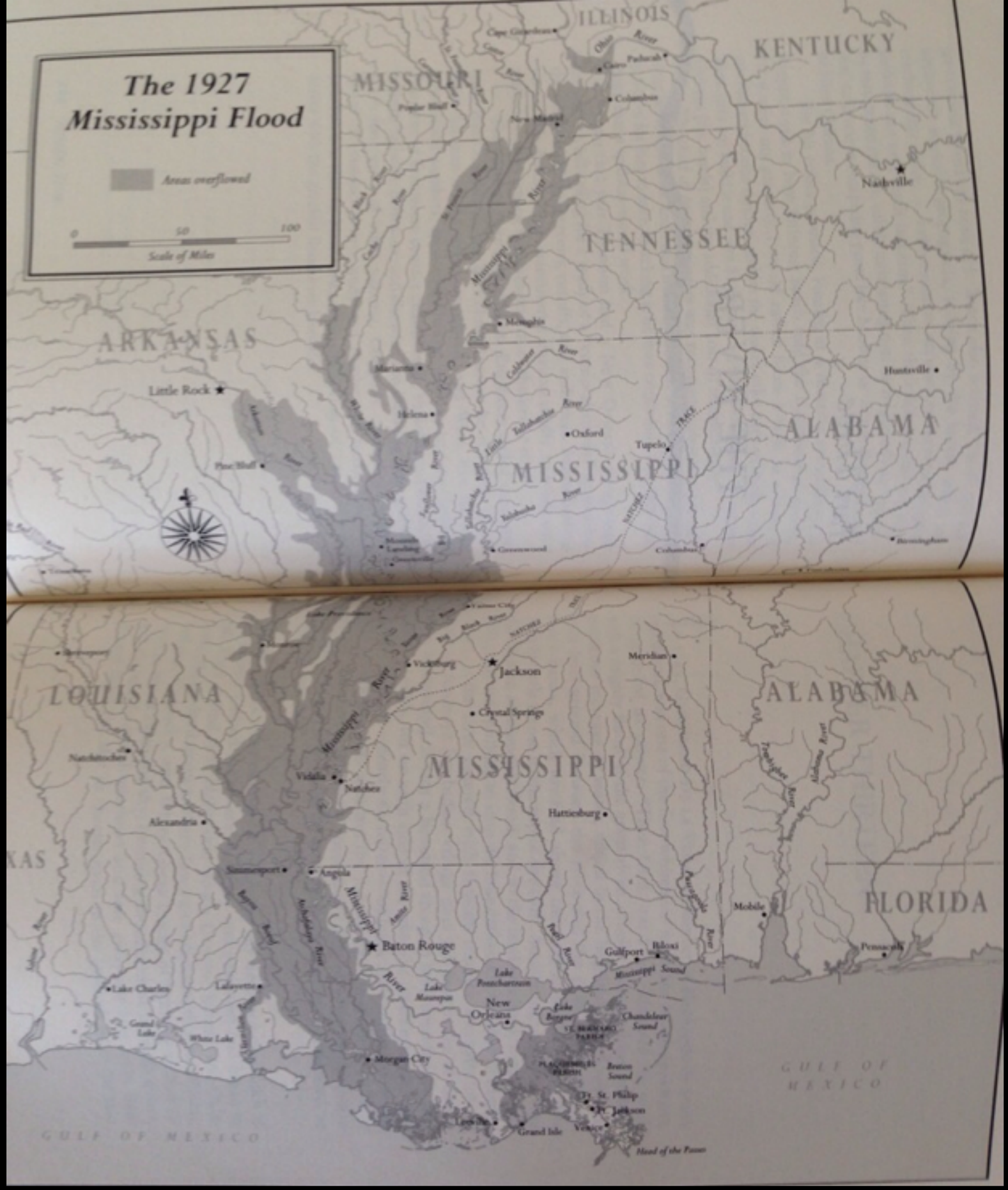
The Mississippi drains more than 40 percent of the continental United States.

MISSISSIPPI'S MANY DELTAS

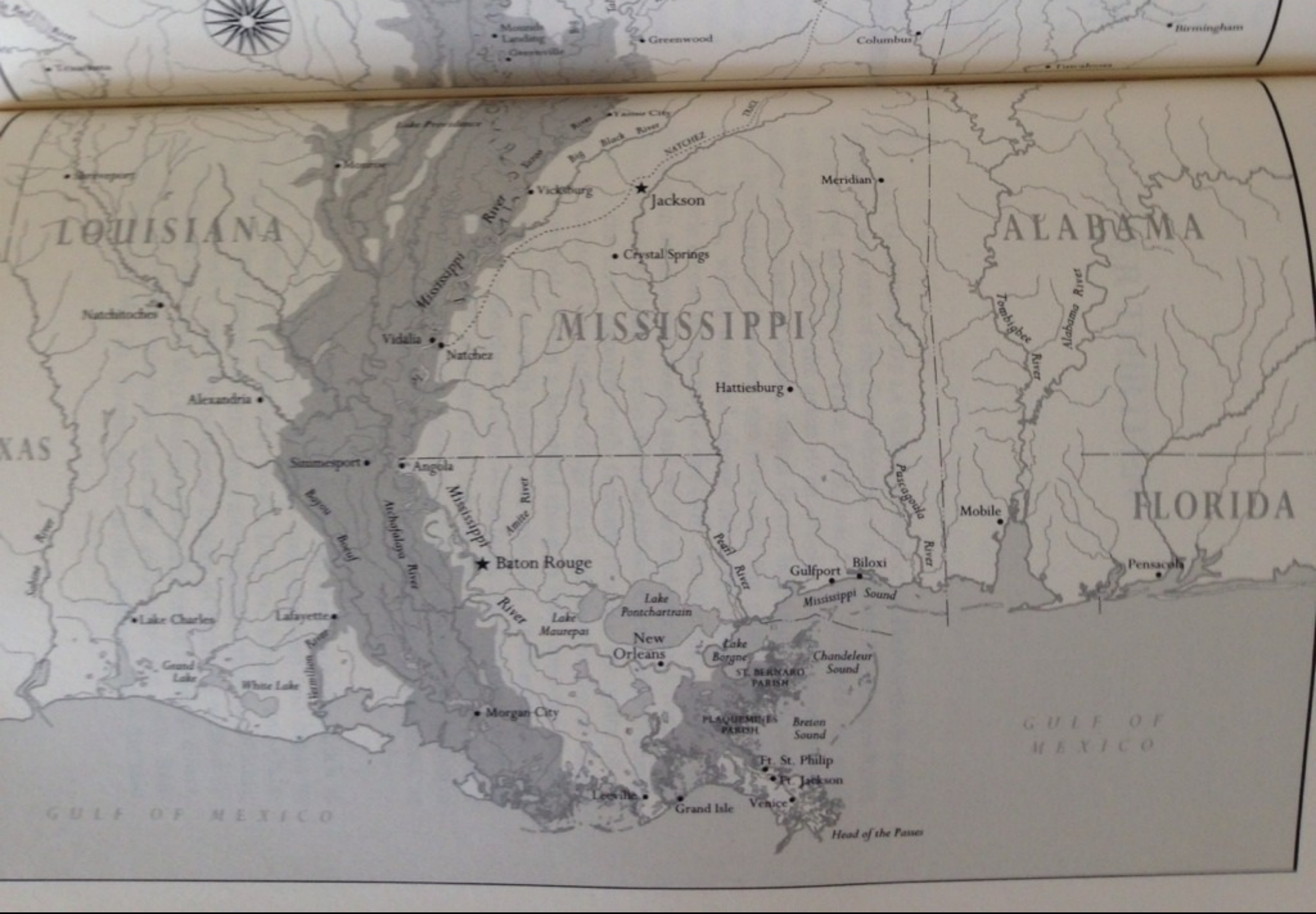
The Mississippi has always meandered but levees are preventing the river fr making its next move, most likely to the Atchafalaya River.



http://www.nytimes.com/imagepages/2006/09/18/science/20060919_RIVE_GRAPHIC2.html

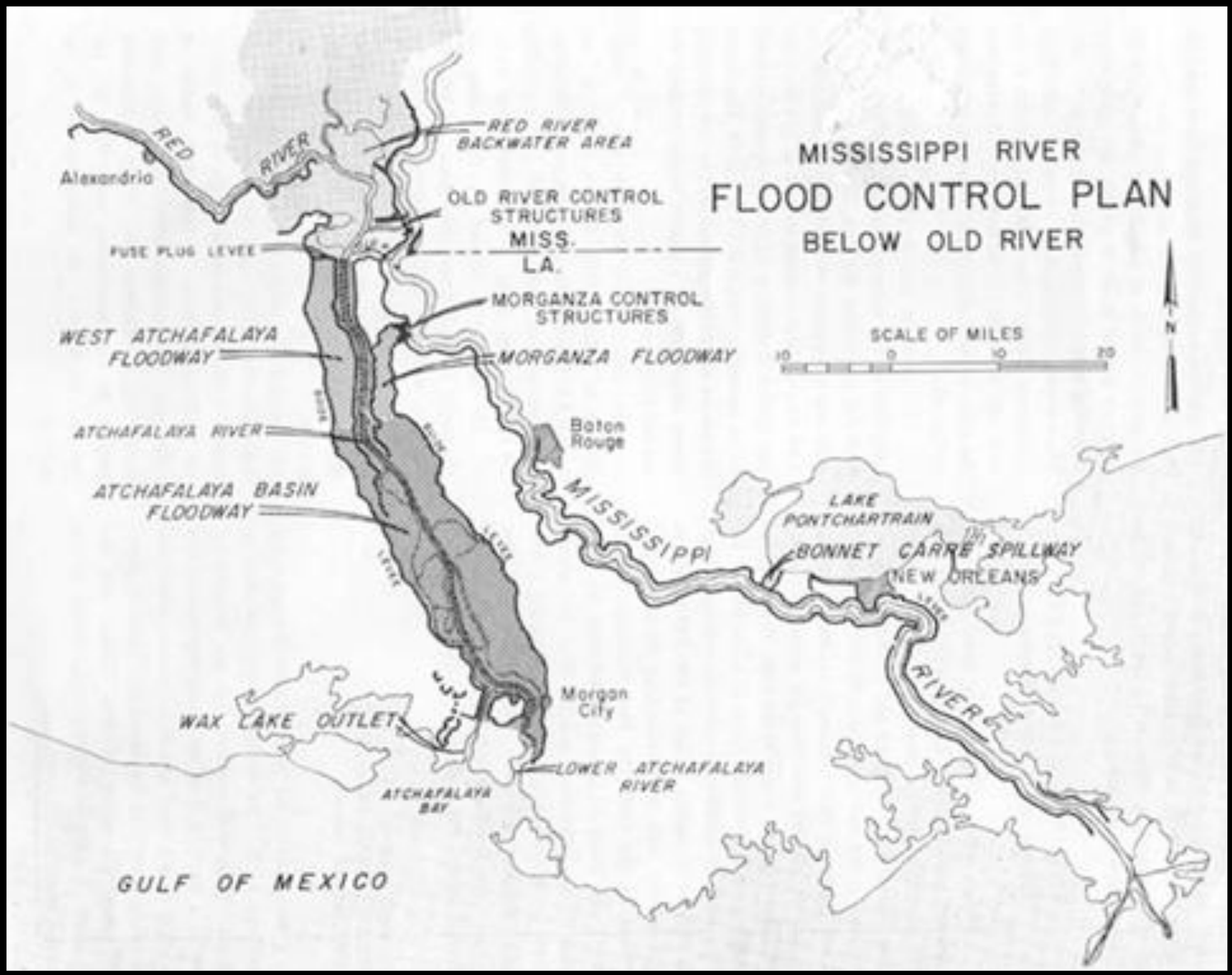


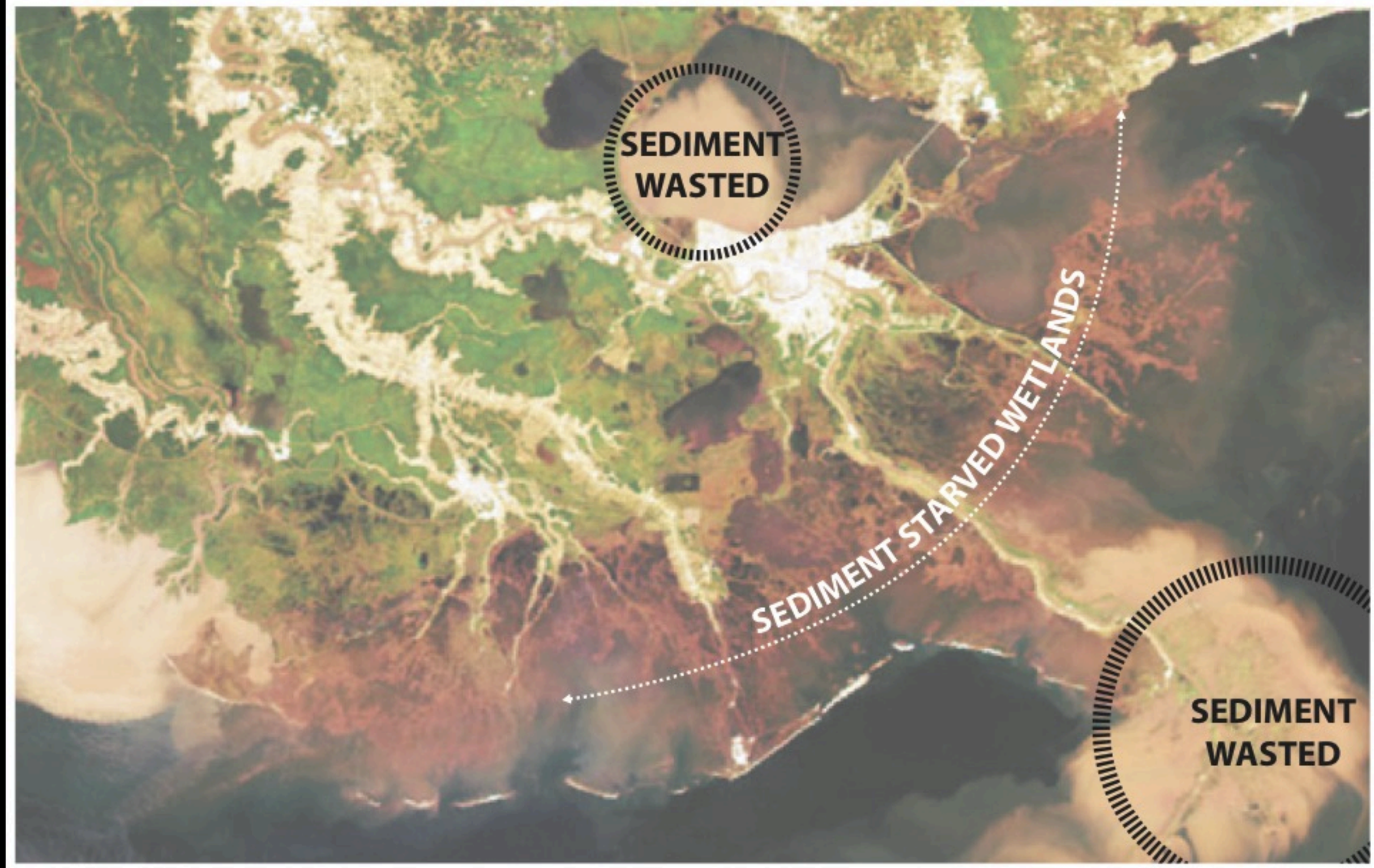
Barry, John, Rising Tide, p. 172



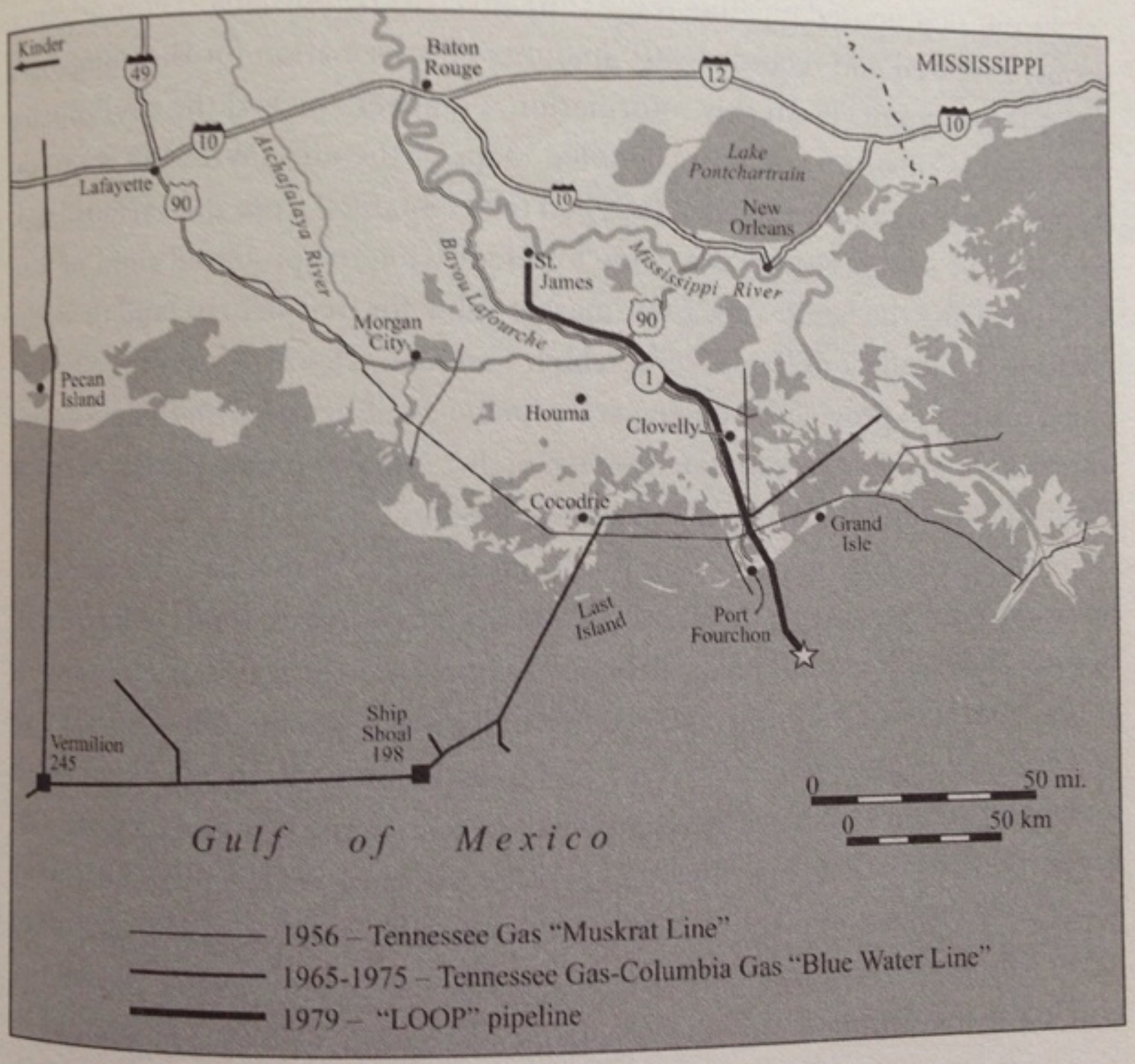
Barry, John, Rising Tide, p. 172

MISSISSIPPI RIVER
FLOOD CONTROL PLAN
BELOW OLD RIVER



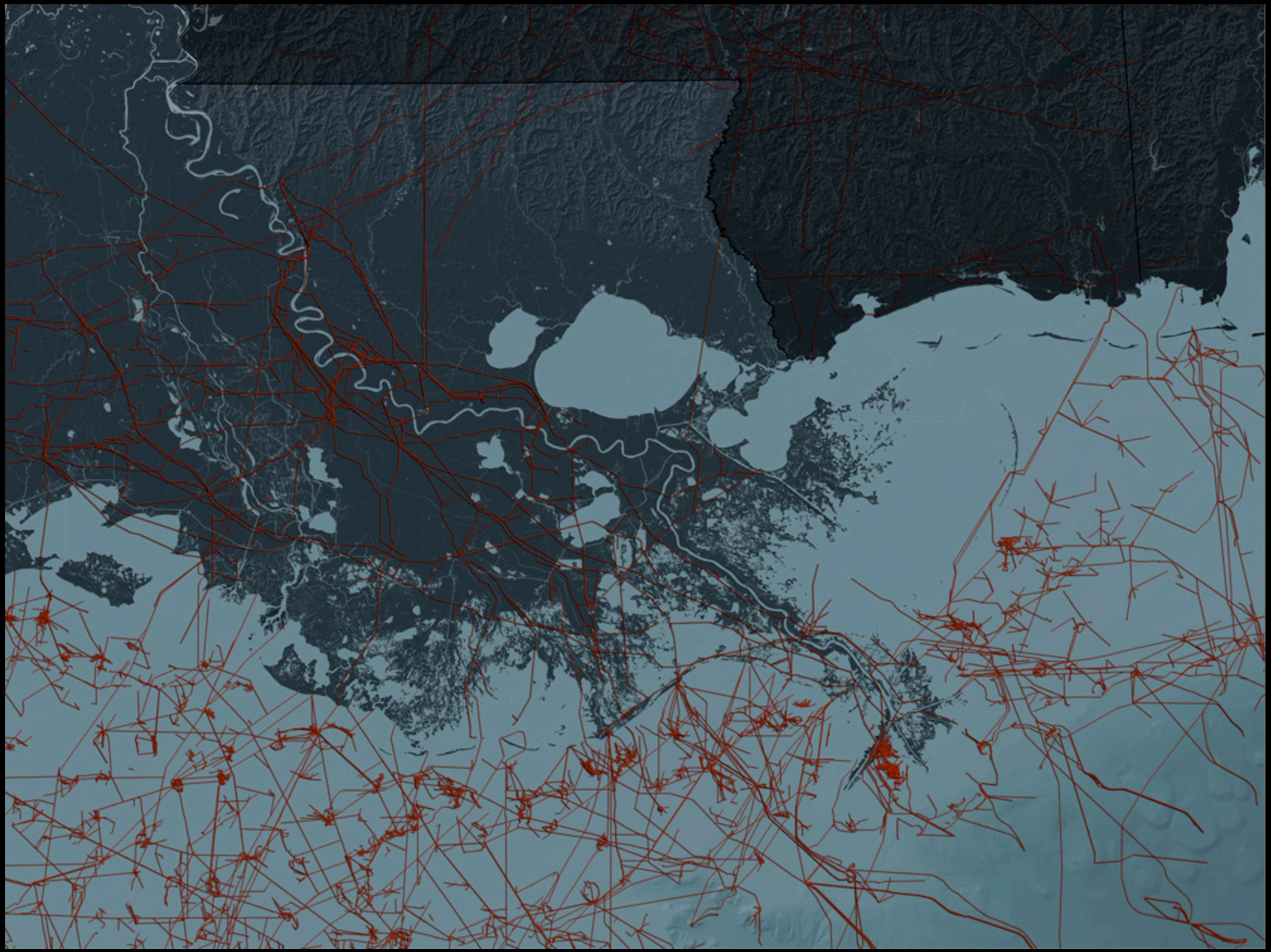


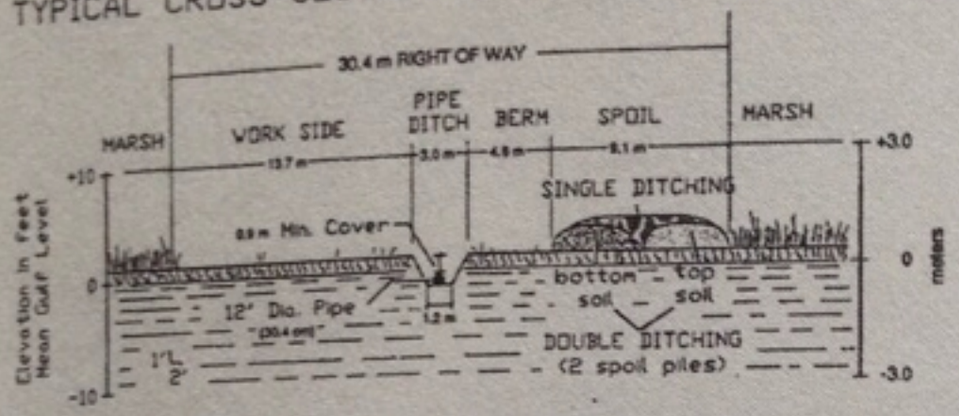
Louisiana Coastal Protection and Restoration Authority



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)

Theriot, James P., American Energy, Imperiled Coast: Oil and Gas Development in Louisiana's Wetlands, p. 49





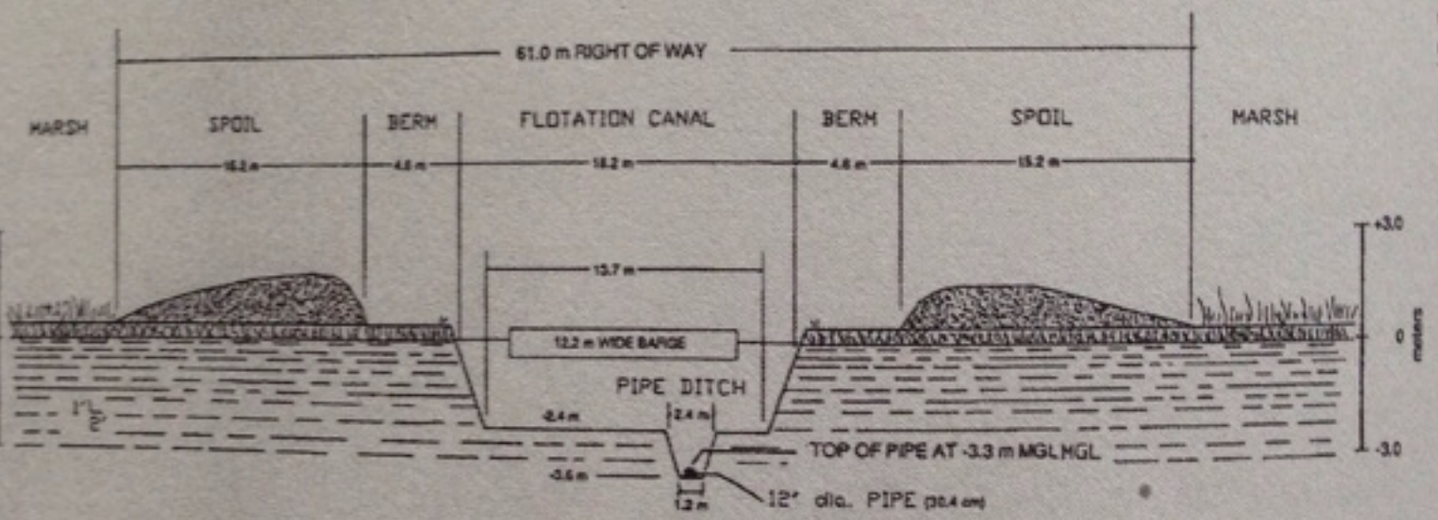
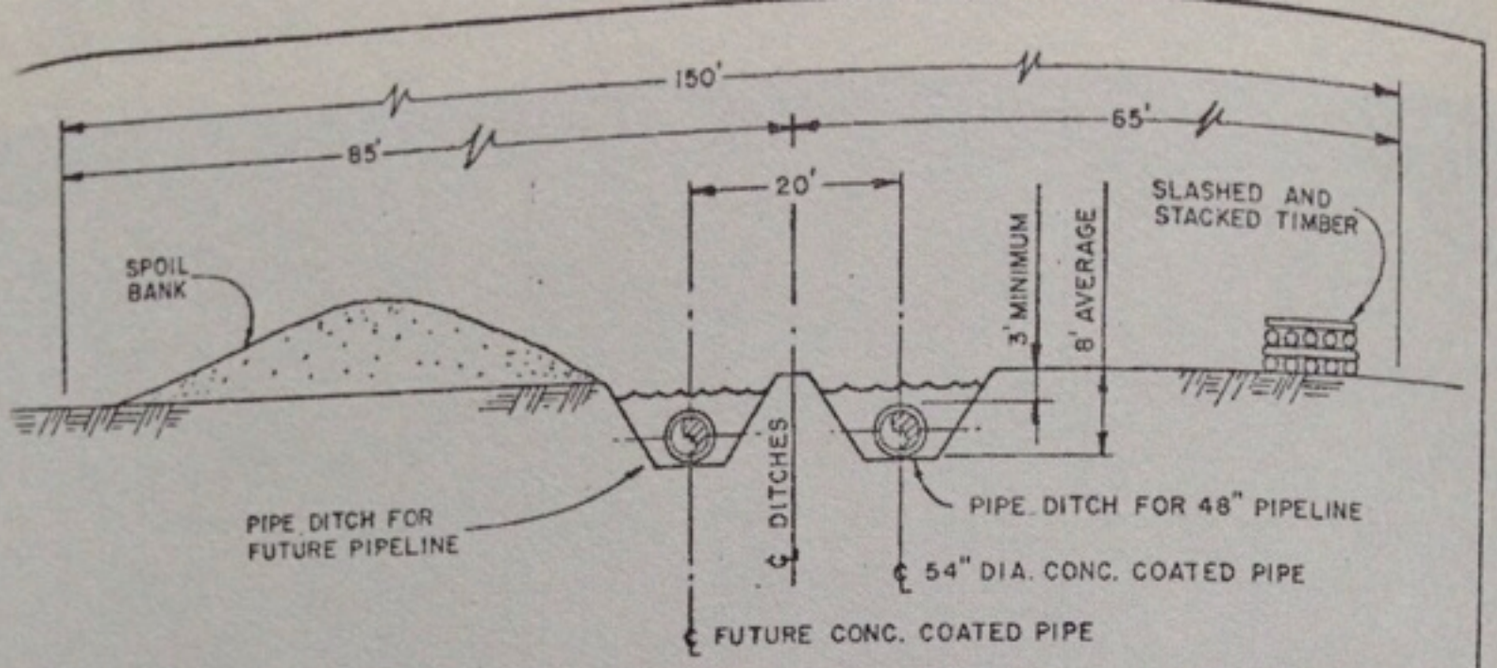


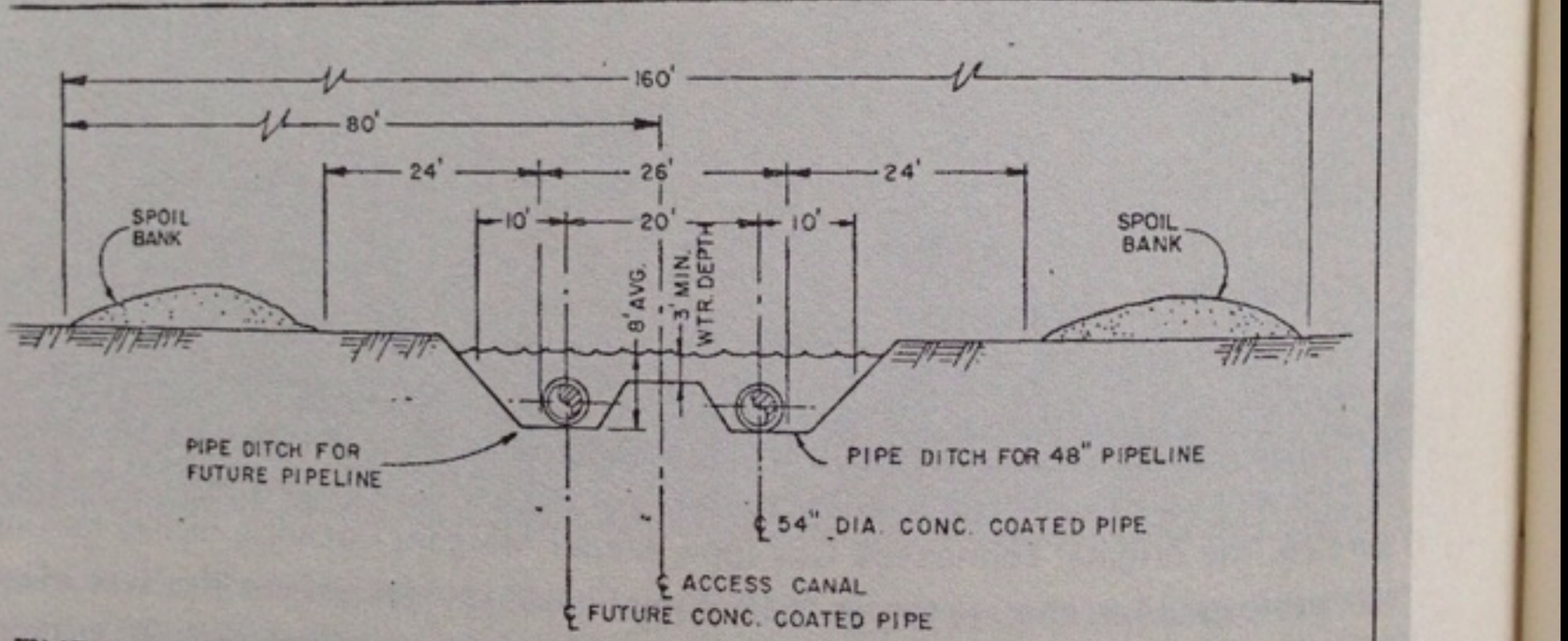
Figure 2.6. Comparison of typical cross sections for a push-pull ditch and a flotation canal.

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

Theriot, James P., American Energy, Imperiled Coast: Oil and Gas Development in Louisiana's Wetlands, fig. 15



TYPICAL CROSS SECTION FOR PUSH DITCH



TYPICAL CROSS SECTION FOR PUSH AND ACCESS CANAL

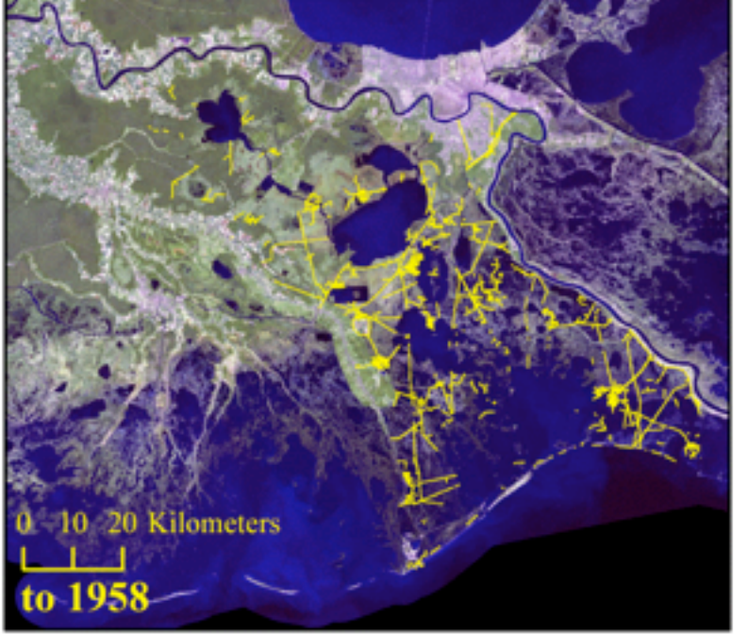
NOTE: THE ENTIRE LENGTH OF LINE WILL BE BACKFILLED WITH AVAILABLE SPOIL AFTER THE PIPELINES ARE INSTALLED.

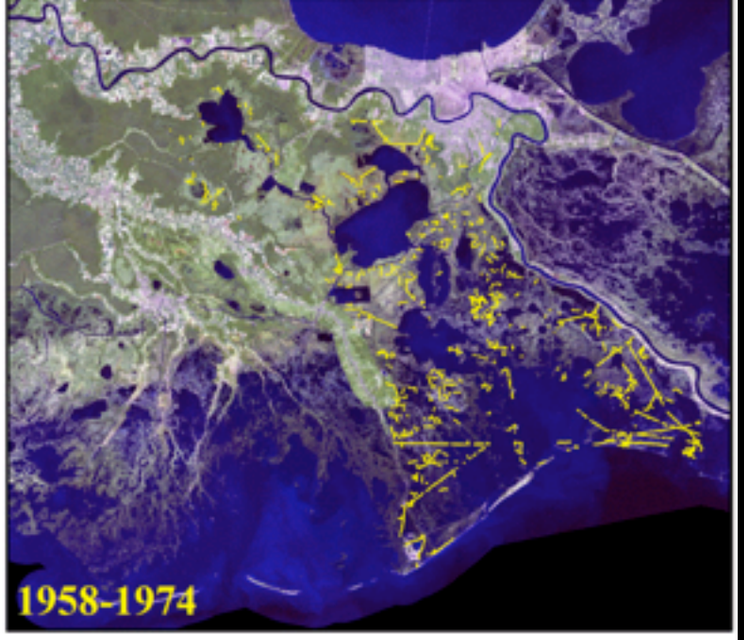
LOOP INC.

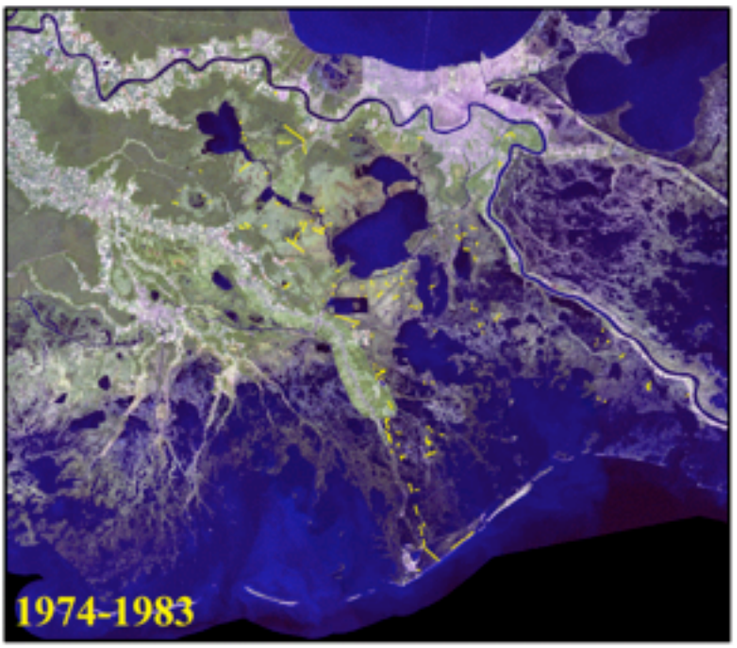
TYPICAL CROSS SECTIONS FOR ST. JAMES PIPELINES

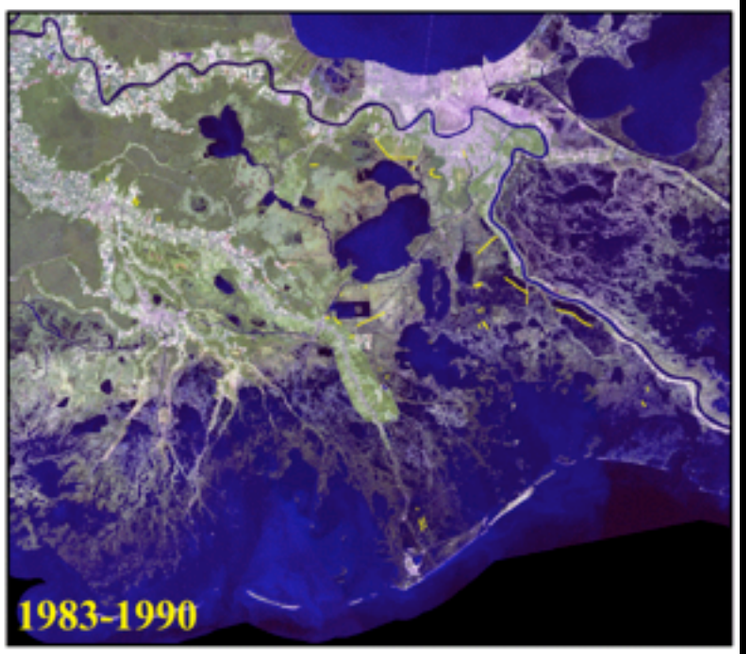
Theriot, James P., American Energy, Imperiled Coast: Oil and Gas Development in Louisiana's Wetlands, fig. 27

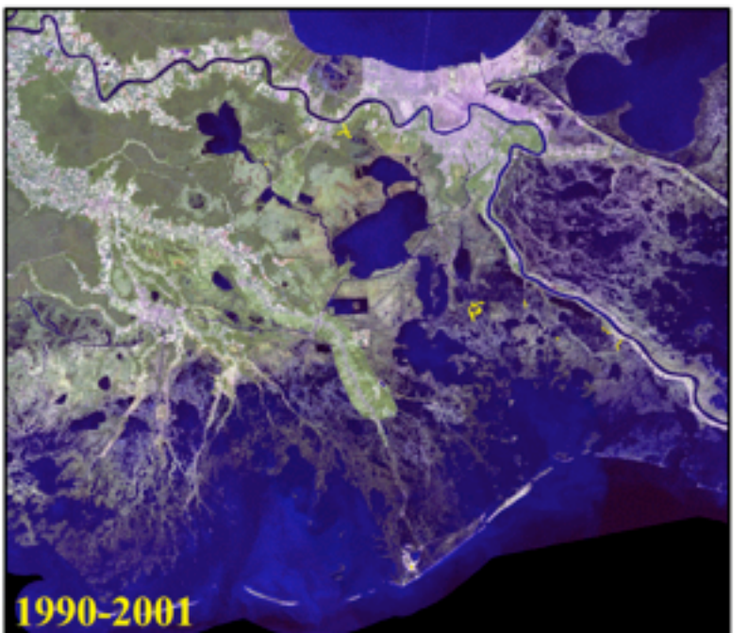
Flickr: Gulf Restoration Network

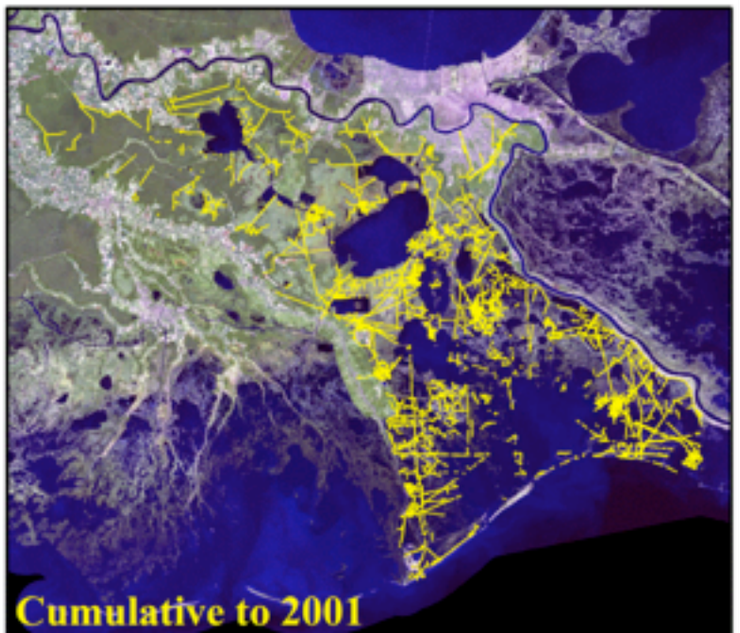












A. Tweel, Louisiana State University, 2013

“Rueda de Vagón,” Venice, Louisiana

“Wagon wheel,” Venice, La.

USGS Aerials

http://www.nola.com/environment/index.ssf/2013/07/historic_east_bank_levee_autho.html

CIVIL DISTRICT COURT FOR THE PARISH OF
STATE OF LOUISIANA

NO. 13-6911

BOARD OF COMMISSIONERS OF THE SOUTHEAST LO
PROTECTION AUTHORITY – EAST, INDIVIDUALLY AN
GOVERNING THE ORLEANS LEVEE DISTRICT, THE LA
LEVEE DISTRICT, AND THE EAST JEFFERSON LEV

V.

TENNESSEE GAS PIPELINE COMPANY, LLC; ALTA MES
ANADARKO E&P ONSHORE, LLC; APACHE CORP.; ATLAN
BEPCO, LP; BHP BILLITON PETROLEUM (KCS RESO
BOARDWALK PIPELINE PARTNERS, LP; BOPCO, LP;
PRODUCTION CO.; BP OIL PIPELINE CO.; BP-PIPELINES (
INC.; CALLON OFFSHORE PRODUCTION, INC.; CALLON
CASKIDS OPERATING CO.; CASTEX ENERGY, INC.;
CENTERPOINT ENERGY RESOURCES CORP.; CHEVRO
CHEVRON U.S.A., INC.; CHROMA OPERATING, INC.; CLA
ENERGY, INC.; CLOVELLY OIL CO., LLC; COASTAL EX
PRODUCTION, LLC; COLLINS PIPELINE CO.; CONOC
CONTINENTAL OIL CO.; COX OPERATING, LLC; CRAV
OPERATING CO.; CROSSTEX LIG, LLC; DALLAS EXPLOR
OIL CO.; DEVON ENERGY PRODUCTION CO., LP; ENERGEN
ENTERPRISE INTRASTATE, LLC; EOG RESOURCES, IN
MANAGEMENT, LLC; ESTATE OF WILLIAM G. HELIS; EX
EXXONMOBIL PIPELINE CO.; FLASH GAS & OIL NORTHE
ROYALTY, LTD.; GREKA AM, INC.; GULF PRODUCTION CO
PIPELINE CO., LP; HARVEST OIL & GAS, LLC; HELIS ENER
& GAS CO., LLC; HESS CORPORATION, A DELAWARE
HILLIARD OIL & GAS, INC.; HKN, INC.; INTEGRATED E
PRODUCTION, LLC; J.C. TRAHAN DRILLING CONTRACTO
CORP.; KENMORE OIL CO., INC.; KEWANEE INDUSTRIES, I
TEXAS, INC.; KOCH EXPLORATION CO., LLC; KOCH IN
LIBERTY OIL & GAS CORP.; LLOG EXPLORATION CO.; M
CO.; MARATHON OIL CO.; MCMORAN EXPLORATION CO
LLC; MOSBACHER ENERGY CO.; MURPHY EXPLORATIO
CO.; NATURAL RESOURCES CORP. OF TEXAS; NEWFIELD I
COAST, LLC; NOBLE ENERGY, INC.; O'MEARA, LLC; ORX
P.R. RUTHERFORD; PLACID OIL CO.; PLAINS PIPELINE, L
CO., LLC; REPUBLIC MINERAL CORP.; RIPCO, LLC; ROZEL
PARISH OIL CO., INC.; SENECA RESOURCES CORP.; SHEL
PETROLEUM, INC.; SOUTHERN BAY ENERGY, LLC; SOUTH
CO., LLC; STATOIL EXPLORATION (US), INC.; SUN OIL CO.;
LP; THE LOUISIANA LAND AND EXPLORATION CO., LLC
MERIDIAN RESOURCE & EXPLORATION, LLC; THE PICKE
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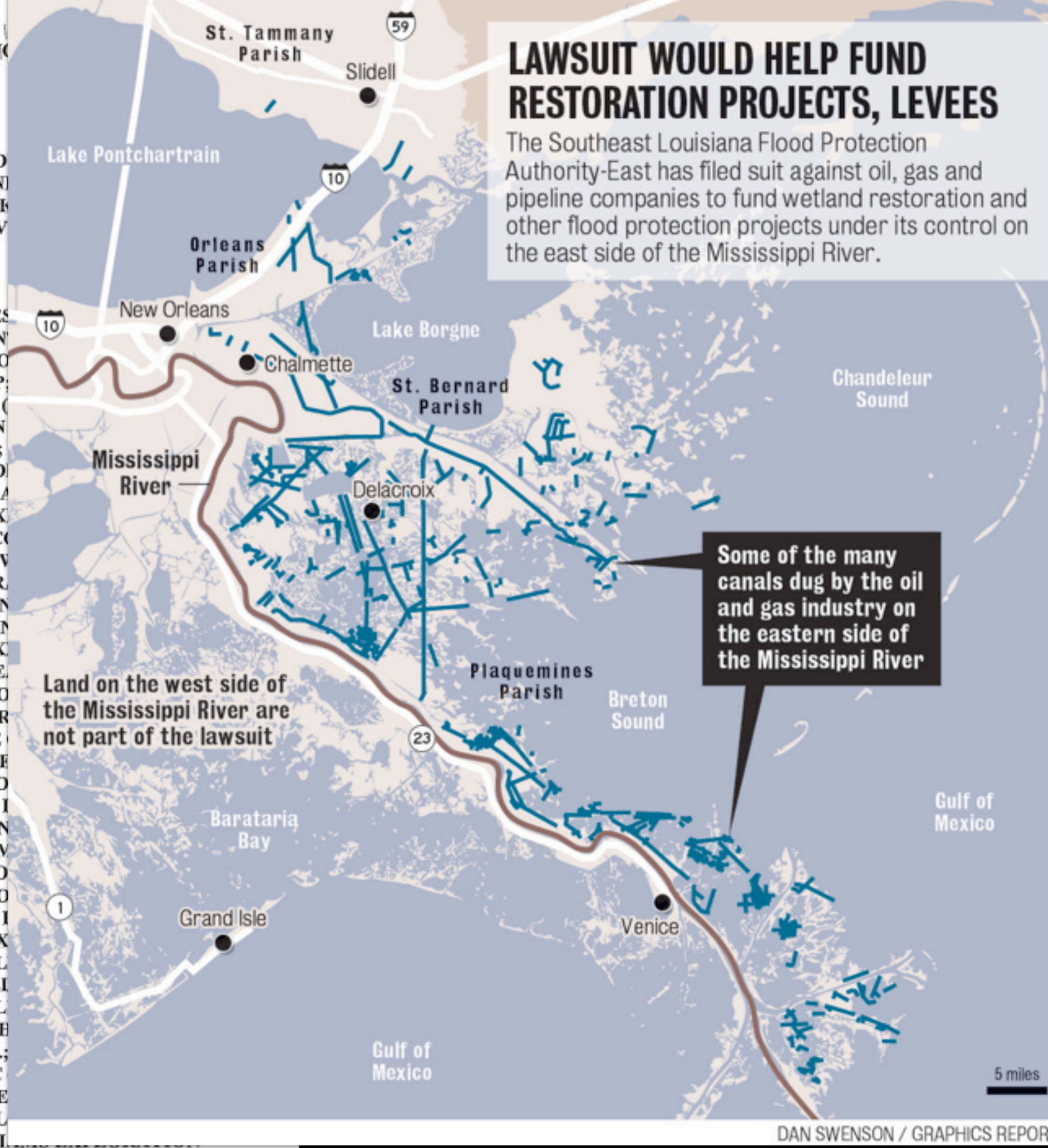


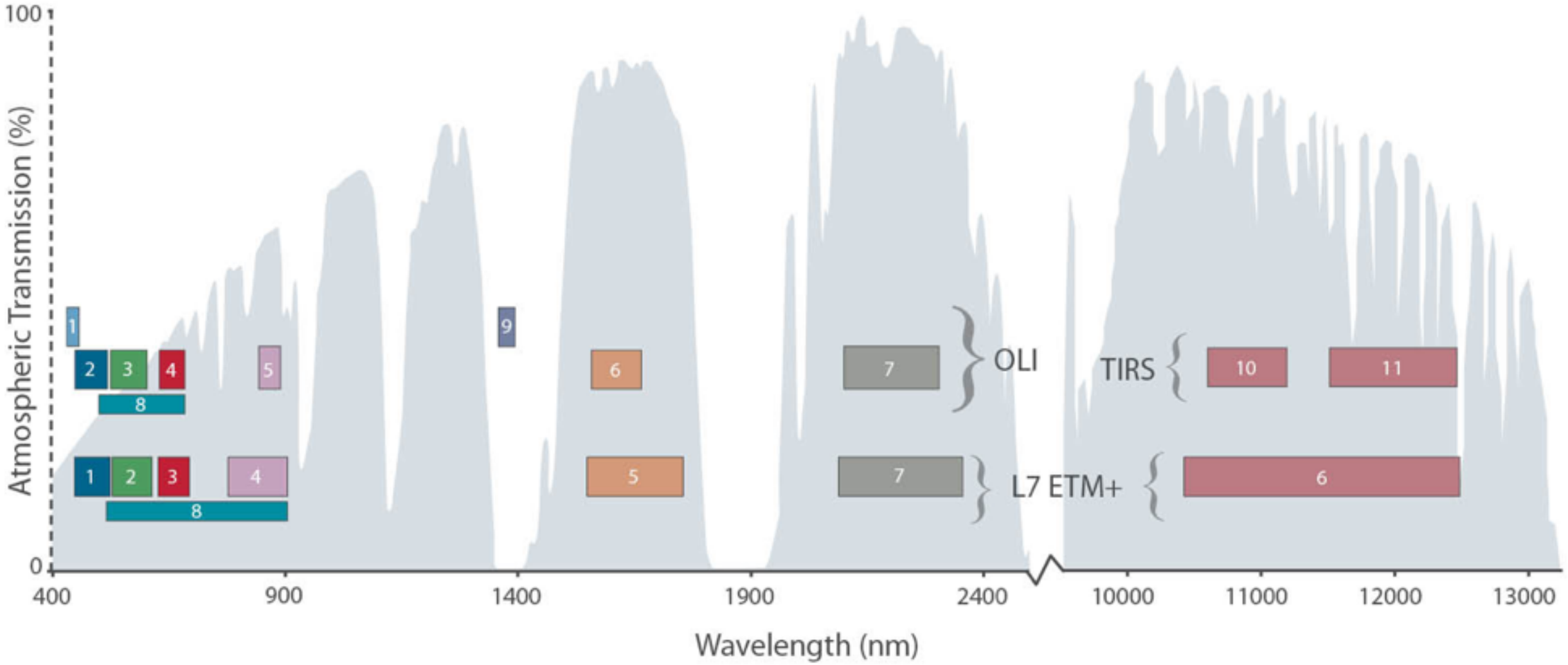
http://www.nola.com/environment/index.ssf/2013/07/historic_east_bank_levee_autho.html

Investigative Space Journalism!

Periodismo de investigación — ¡en el espacio!

NASA

Landsat 8

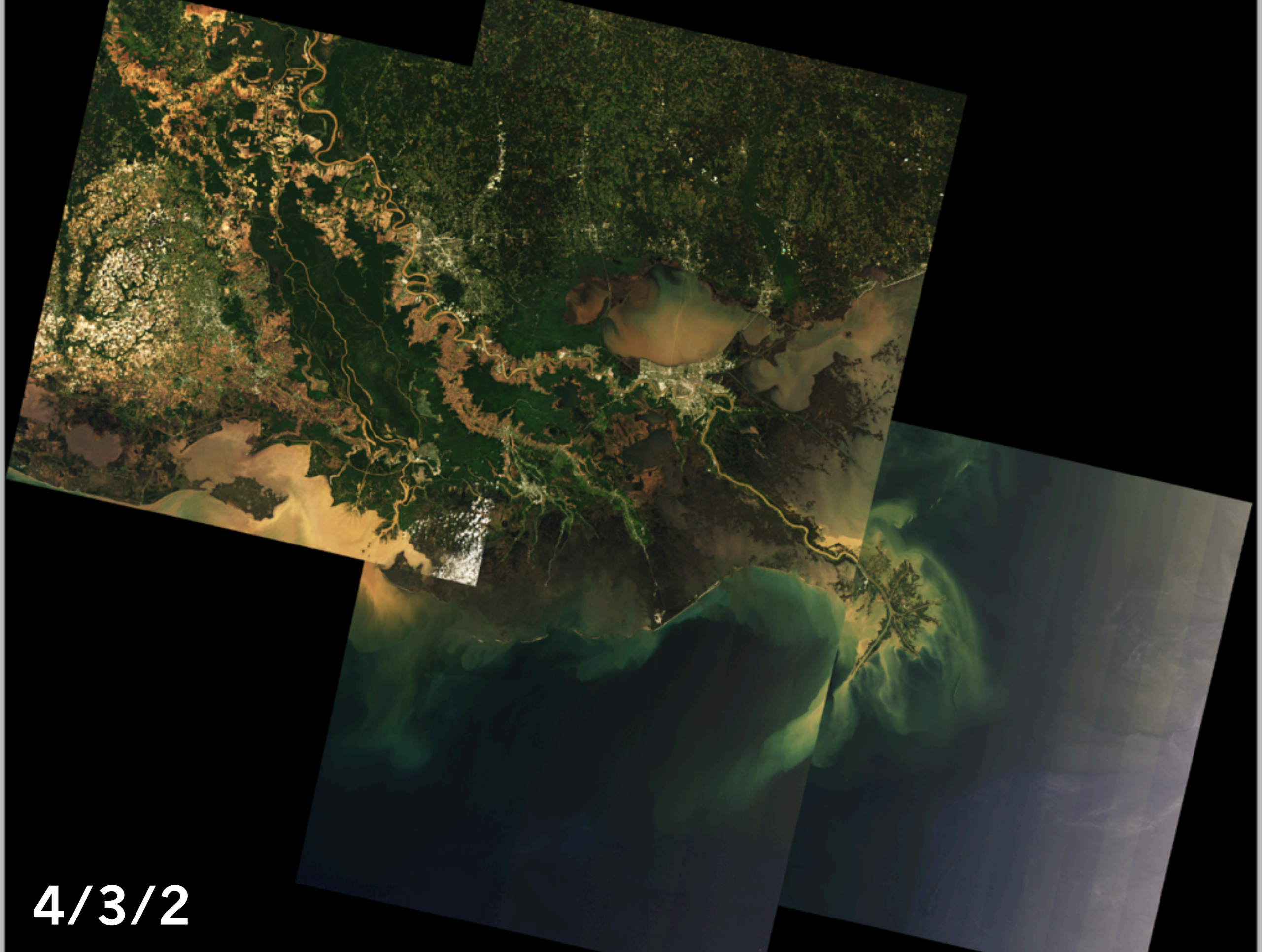


NASA

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)

NASA



4/3/2

7/5/3

4/3/2 + 5 mask

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

Mapbox

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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

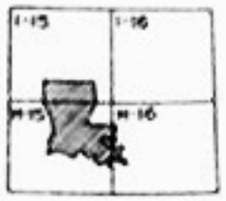
A. F. Hassan, Cartographer

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

Scale 1:500,000

10 0 10 20 30 40 Miles

10 0 10 20 30 40 50 Kilometers



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

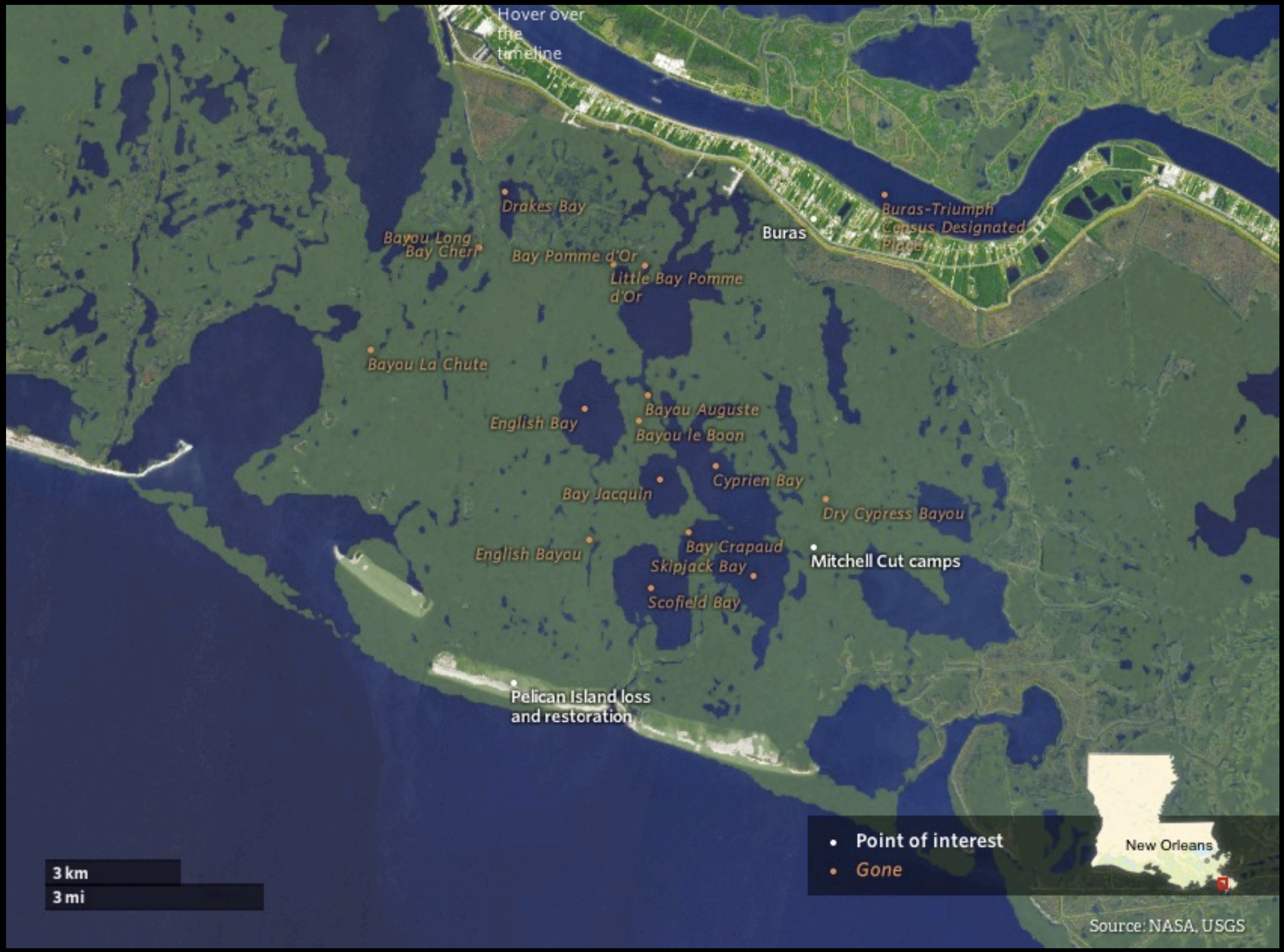
USGS via LSU

LIVINGSTON
ST TAMMANY
LAKE PONTCHARTRAIN
ASCENSION
ST JOHN THE BAPTIST
ST JAMES
ST CHARLES
ST BERNARD
TERREBONNE
LAKE MAUREPAS
LAKE SALVADOR

USGS via LSU

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”*

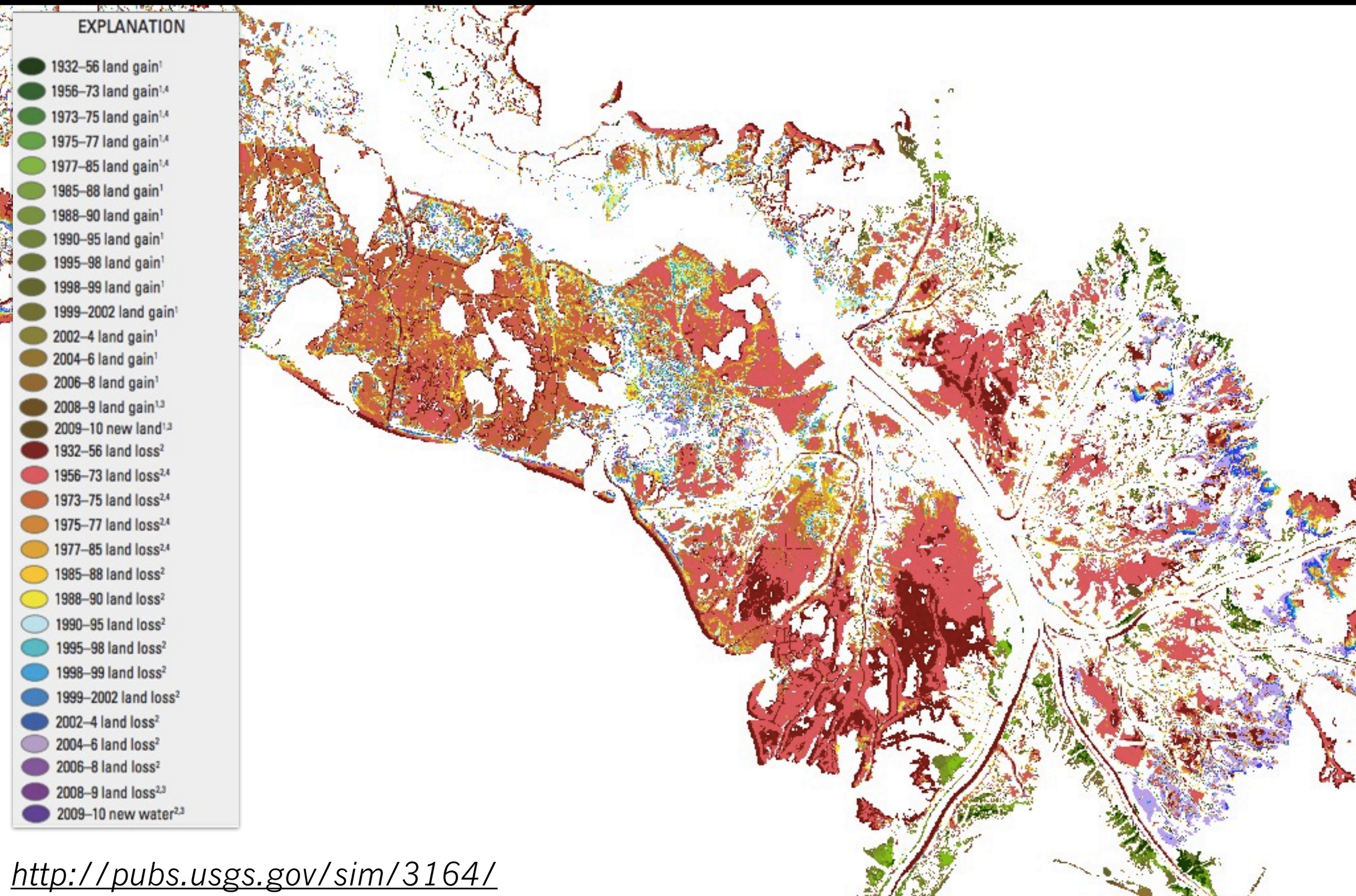
Buras, La. land loss 2009 via USGS, over 2014 Landsat 8

Figure 6. Linear regressions of land area change trends in coastal Louisiana by hydrologic basin (as defined by the Coastal Restoration Act Program, n.d.), 1985–2010; negative measurements indicate land loss, while positive measurements indicate land gain. Effects of the hurricanes of 2005 and 2008 are shown for comparison.

Lake Maurepas
Lake Pontchartrain
Lake Saint Catherine
Lake Borgne
Pontchartrain Basin
Chandeleur Sound
Lake Lery
Breton Sound
Breton Sound Basin
Lac des Allemands
New Orleans
Lake Cataouatche
Lake Salvador
Little Lake
Barataria Bay
Barataria Basin
Gulf of Mexico
Lake Verret
Lake Pelourde
Lake De Cade
Four League Bay
Lost Lake
Lake Mechant
Caillou Lake
Lake Felicity
Terrebonne Bay
Timbalier Bay
Port Fourchon
Terrebonne Basin
Mississippi River
Kilometers
10 5 0 10 20 30 40

http://pubs.usgs.gov/sim/3164/

Creating “land” *Crear “tierra”*



http://pubs.usgs.gov/sim/3164/

Creating “land” *Crear “tierra”*

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  "1977-1985-gain"   =>   "srgba(102,201,15,1)",
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  "1988-1990-gain"   =>   "srgba(109,150,33,1)",
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  "1995-1998-gain"   =>   "srgba(102,119,40,1)",
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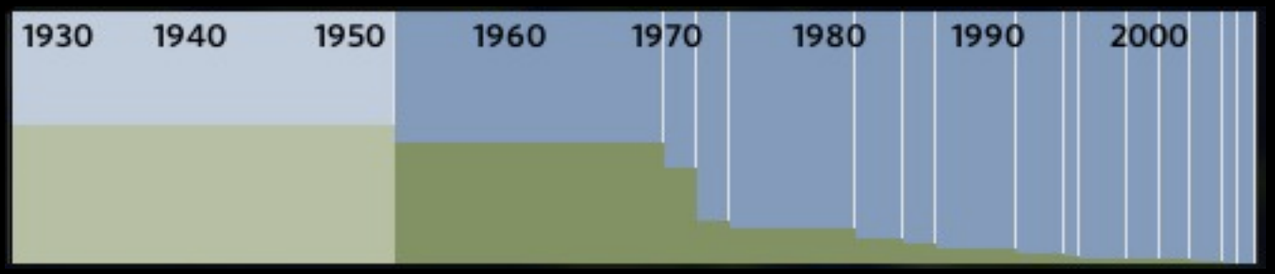
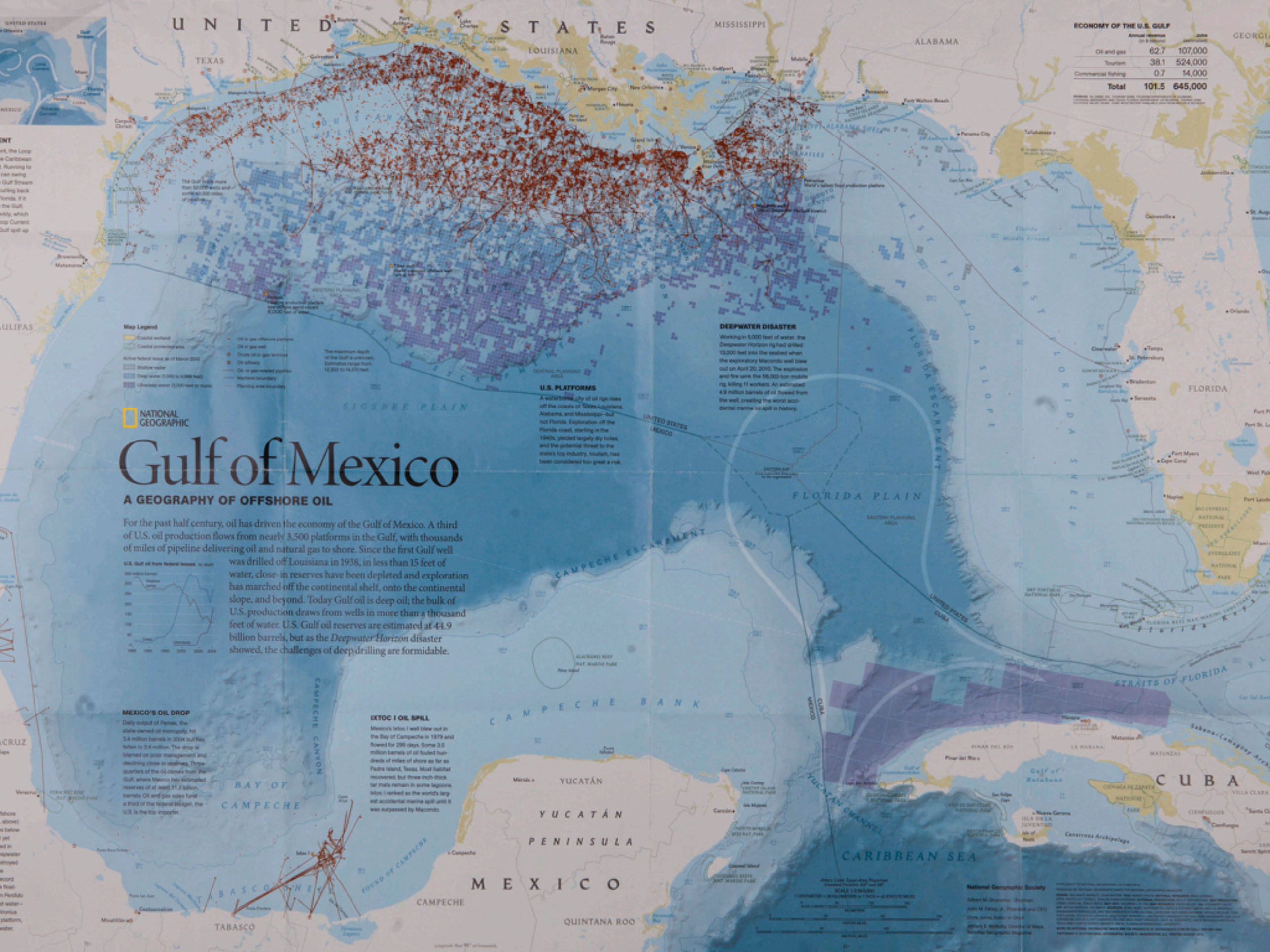
Creating “land” *Crear “tierra”*

```
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





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.

ECONOMY OF THE U.S. GULF

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

U.S. PLATFORMS

A waterborne 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.

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 58,000-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.

MEXICO'S OIL DROP

Daily output of Pemex, the state-owned oil monopoly, hit 3.4 million barrels in 2004 but has fallen to 2.6 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 11.3 billion barrels. Oil and gas sales fund a third of the federal budget, the U.S. is the top importer.

IXTOC I OIL SPILL

Mexico's Ixtoc I 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 I ranked as the world's largest accidental marine spill until it was surpassed by Macondo.

Hikable Guide of West Highland Way – Hikable

hikable.com/guide/1/westhighlandway#?section=0

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DAY 1

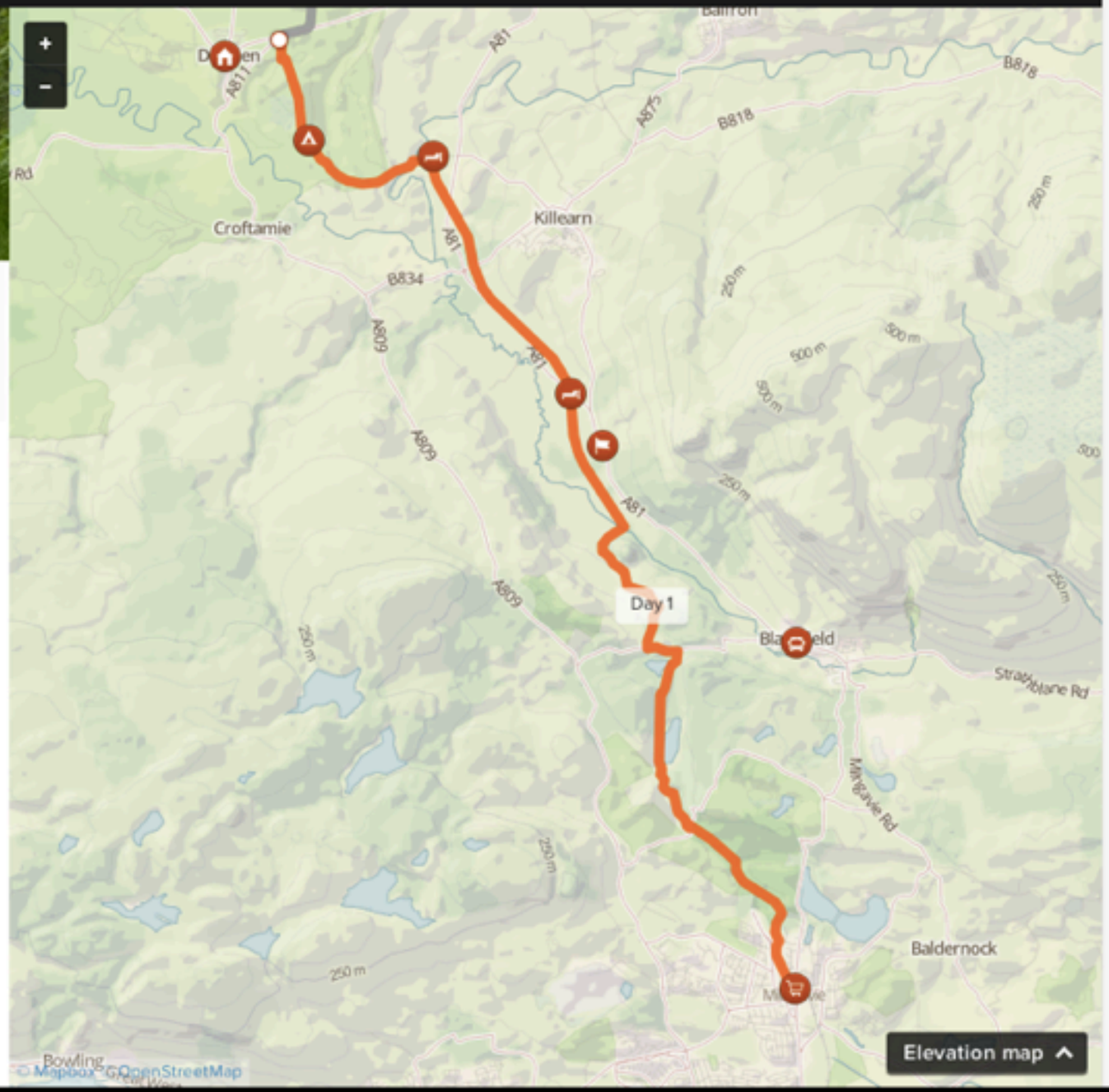
Milngavie to Drymen

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



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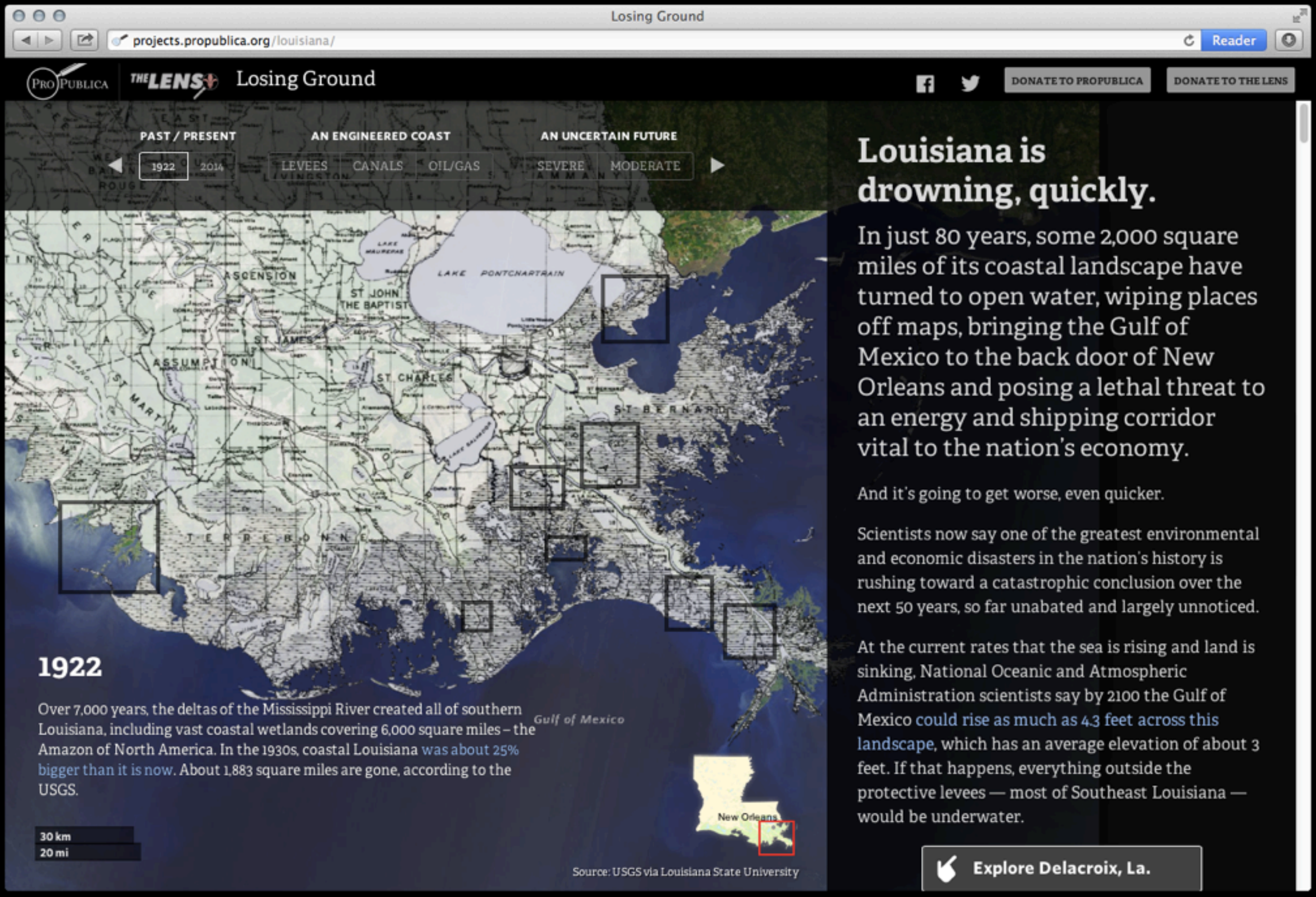

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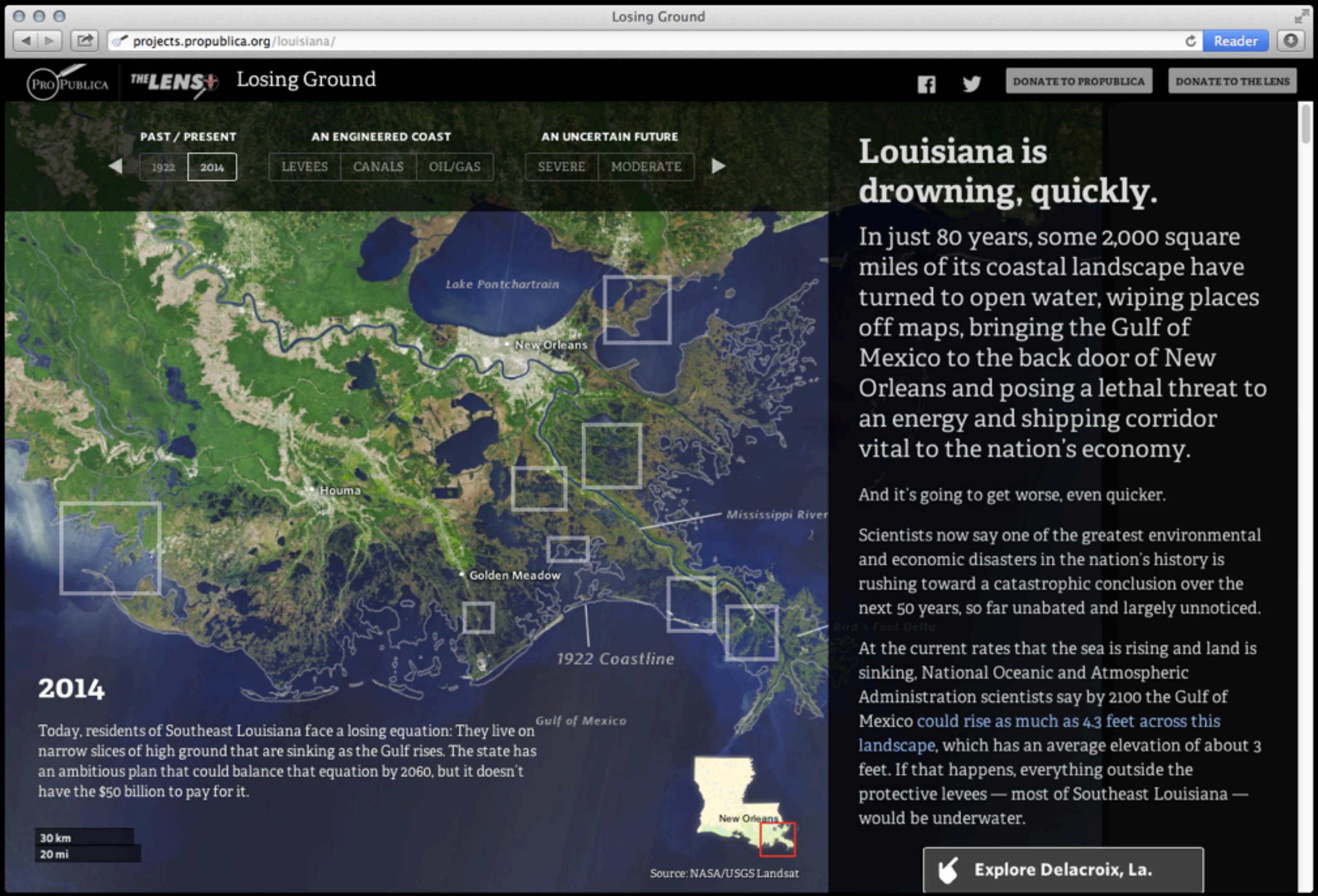

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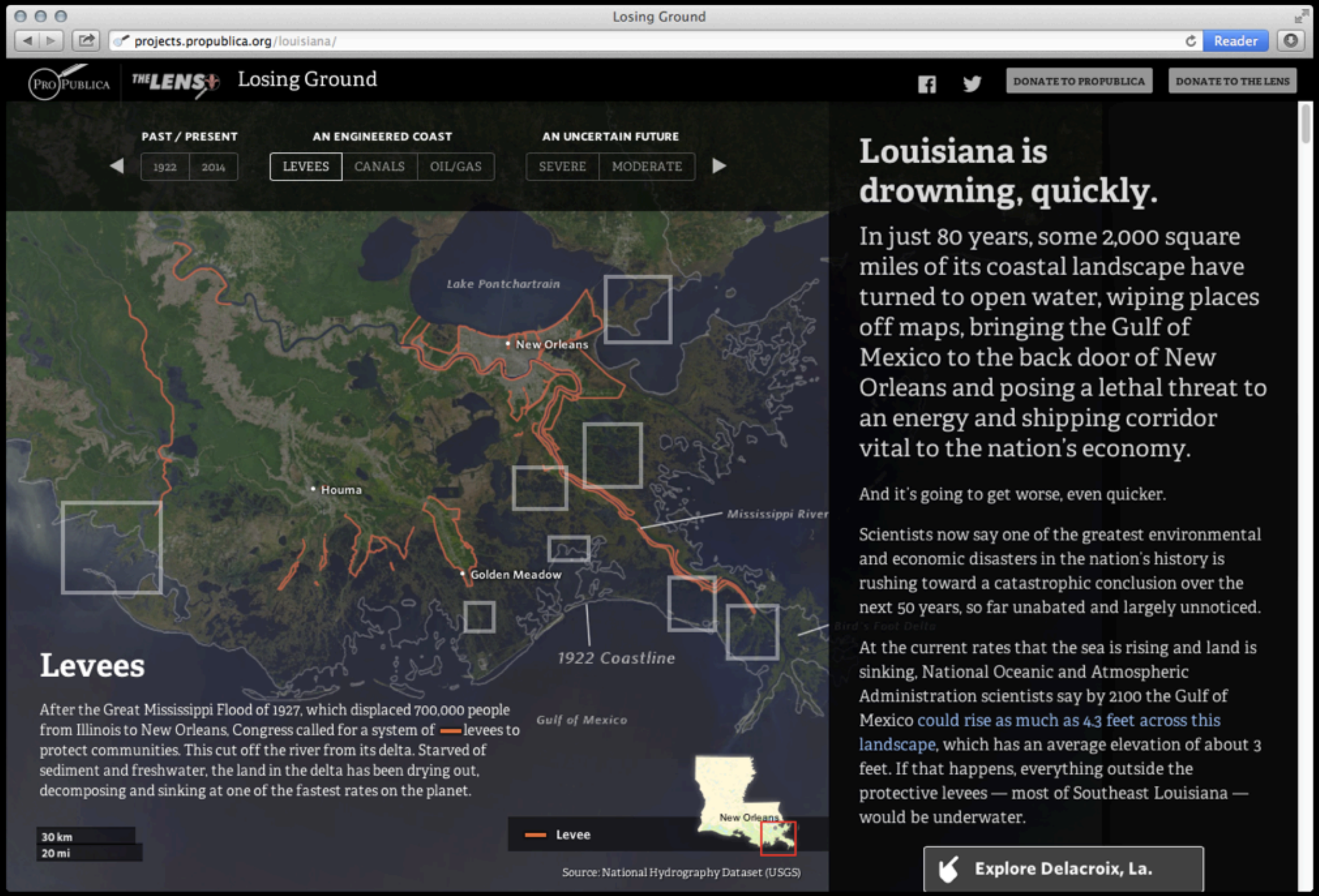

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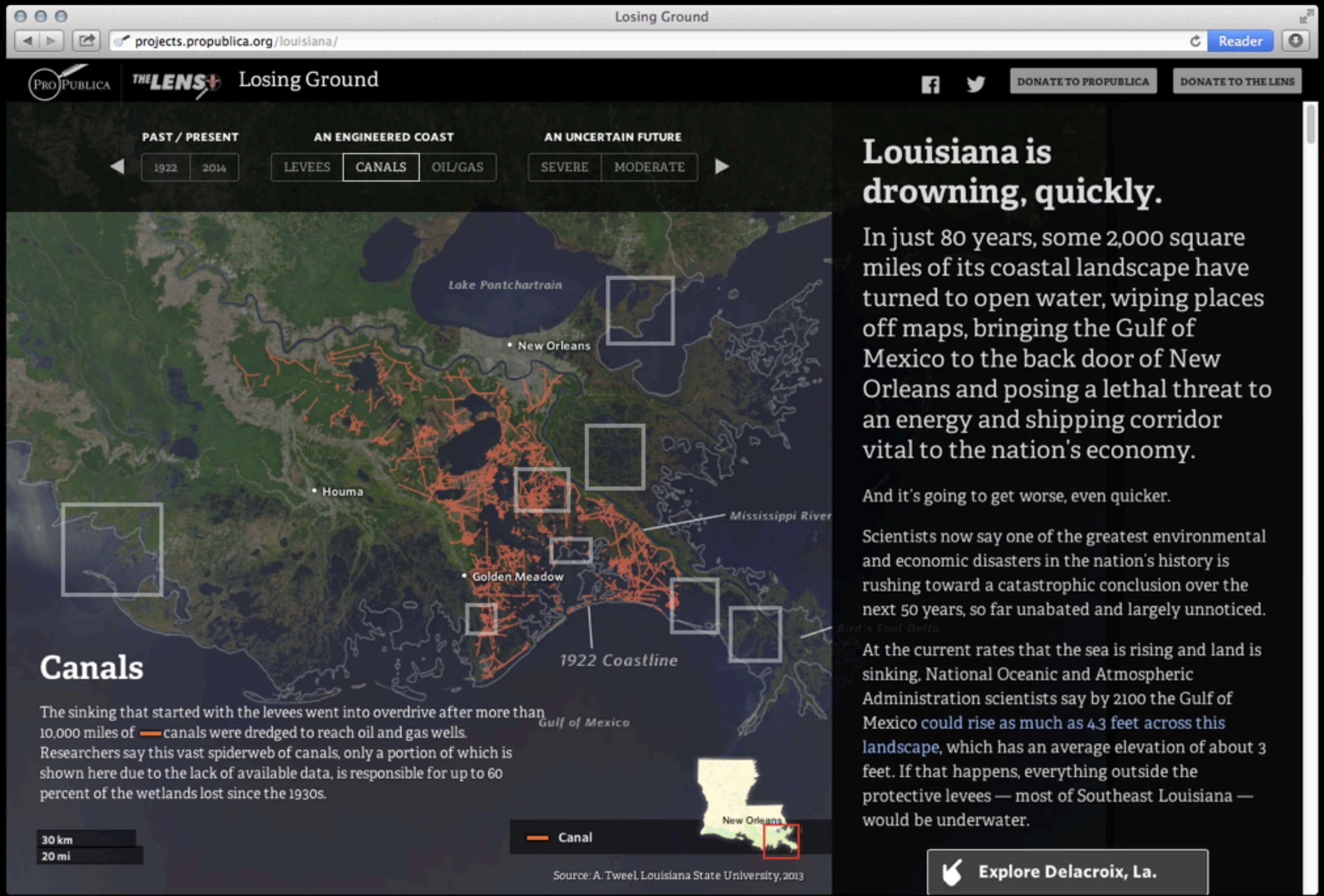

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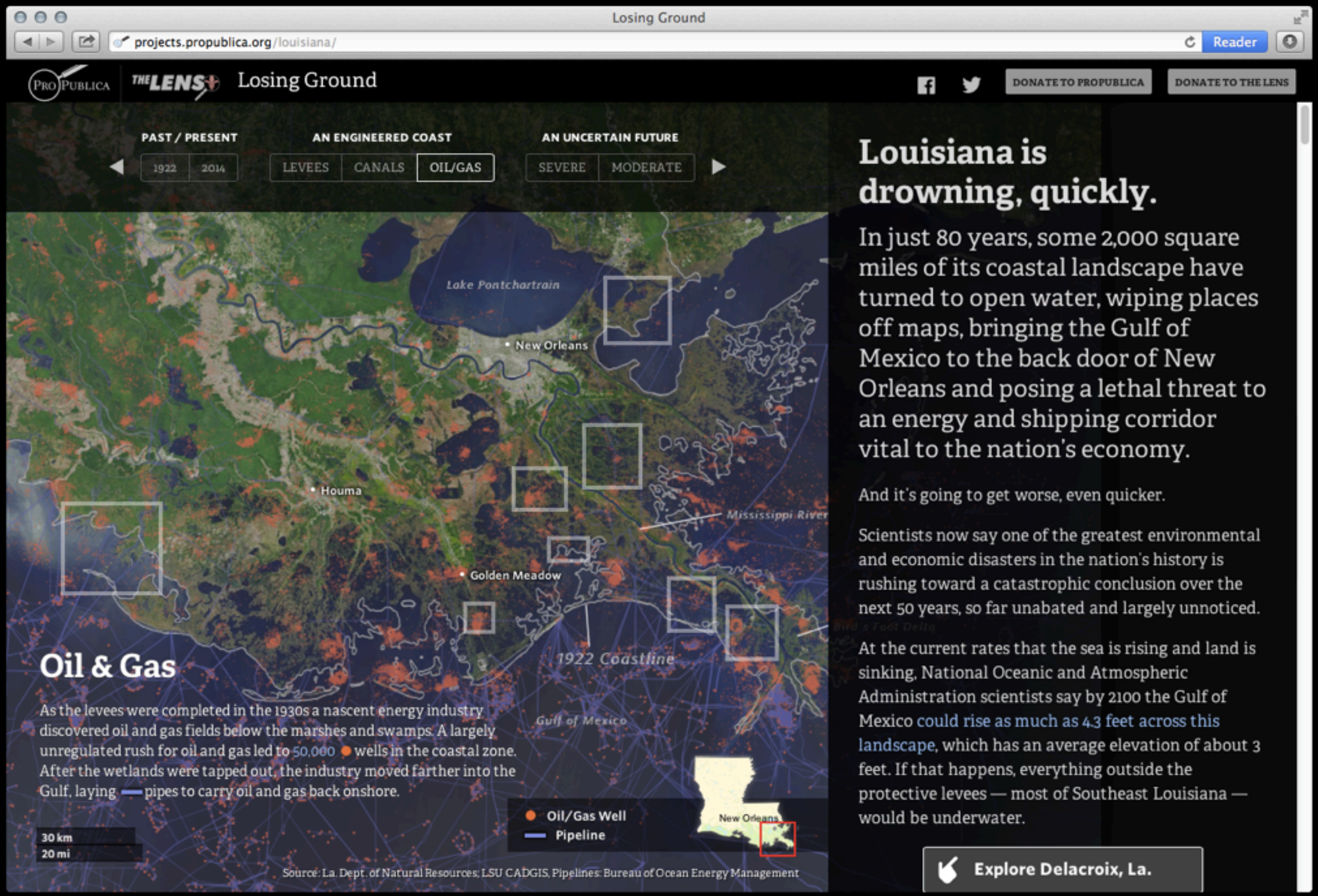

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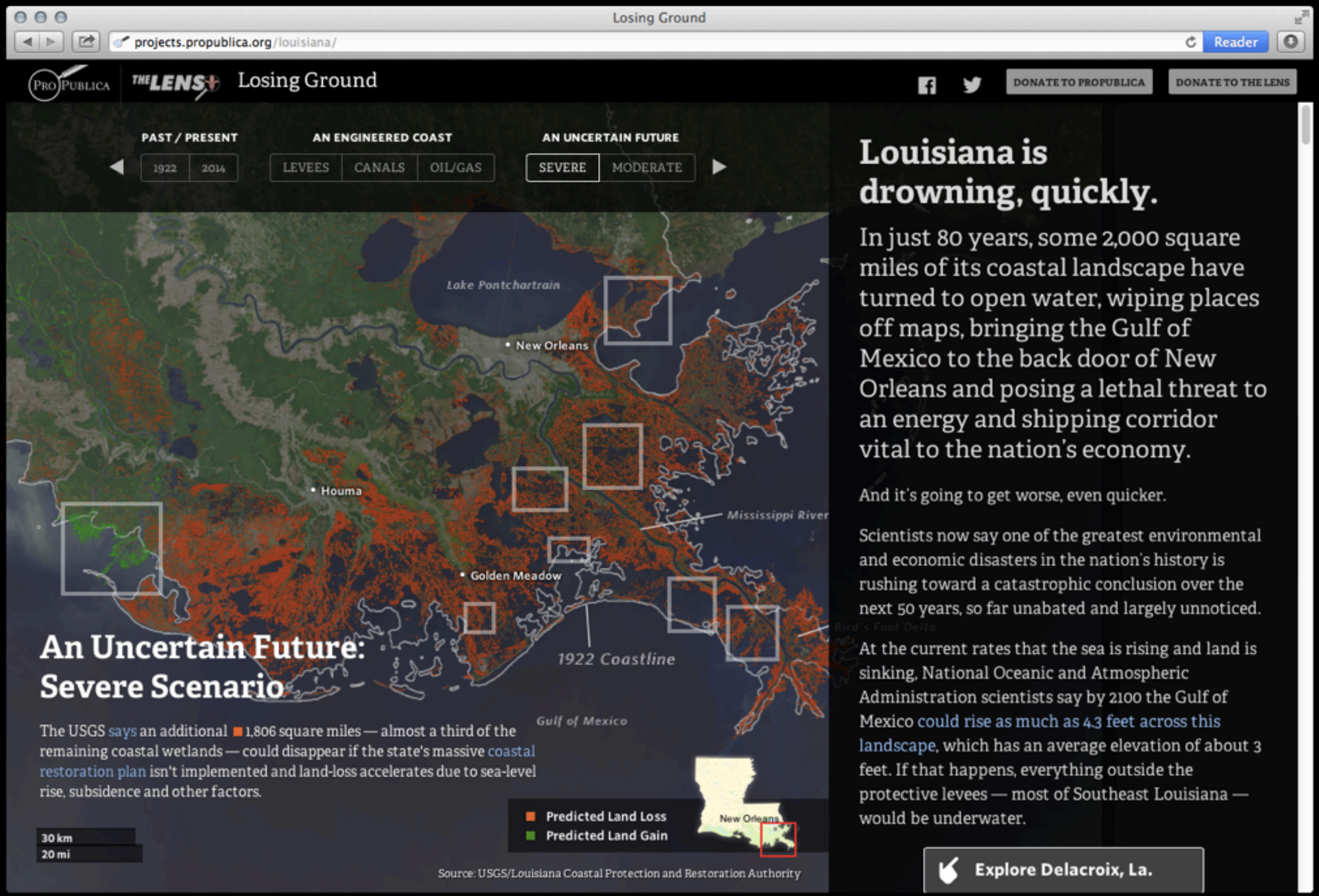

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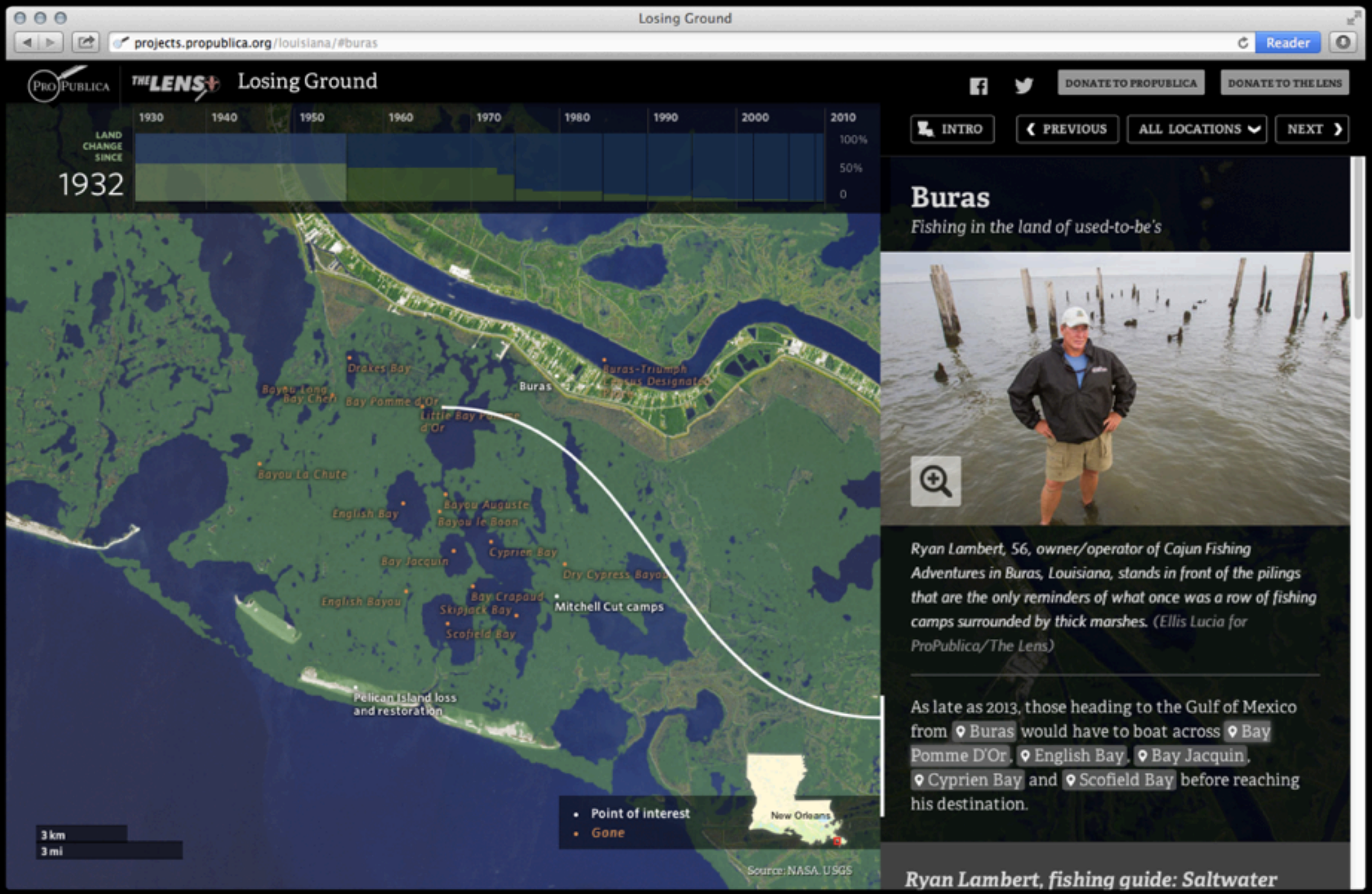

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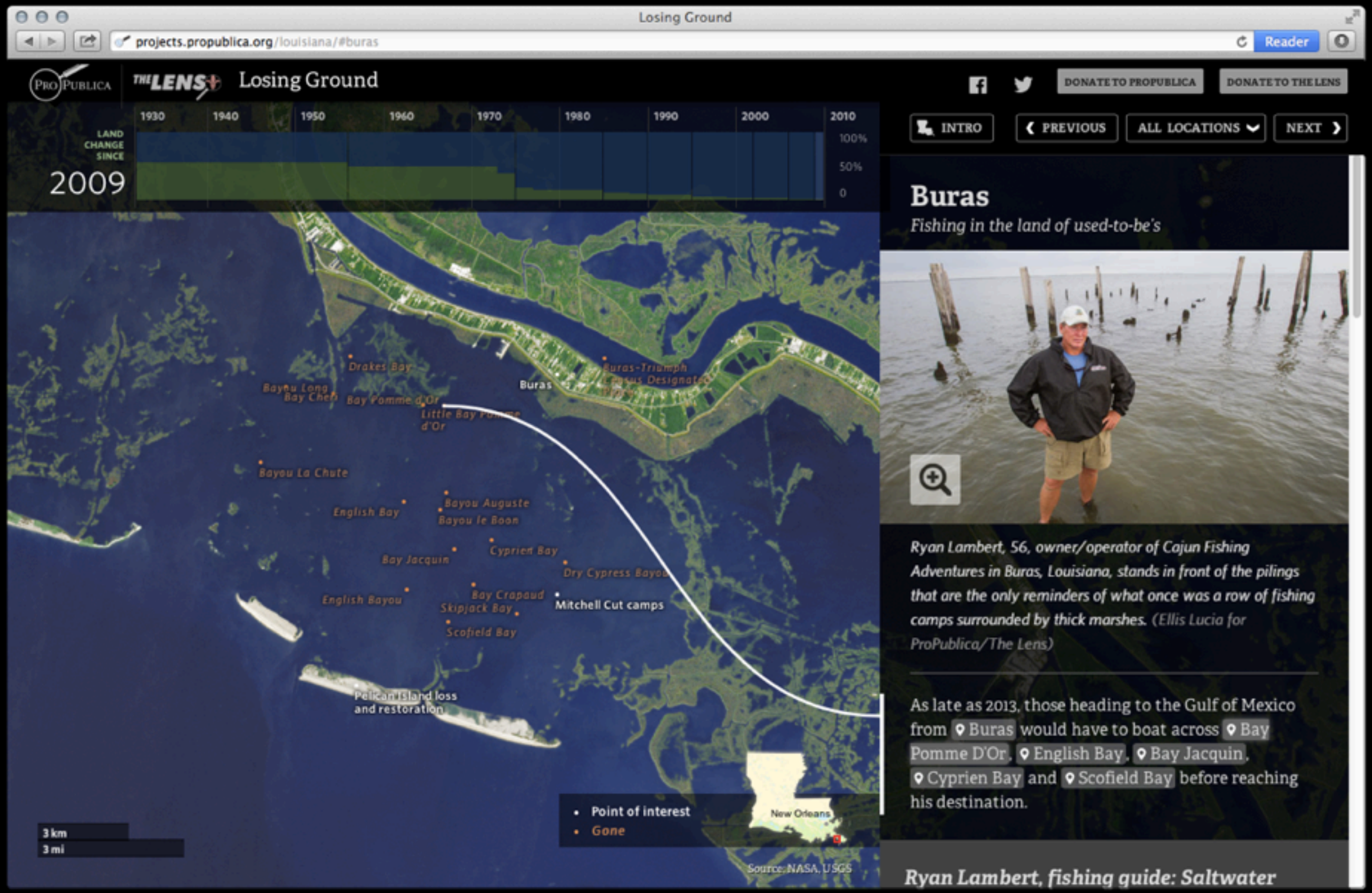

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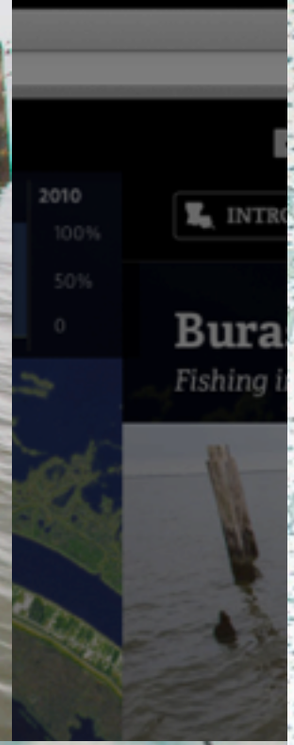
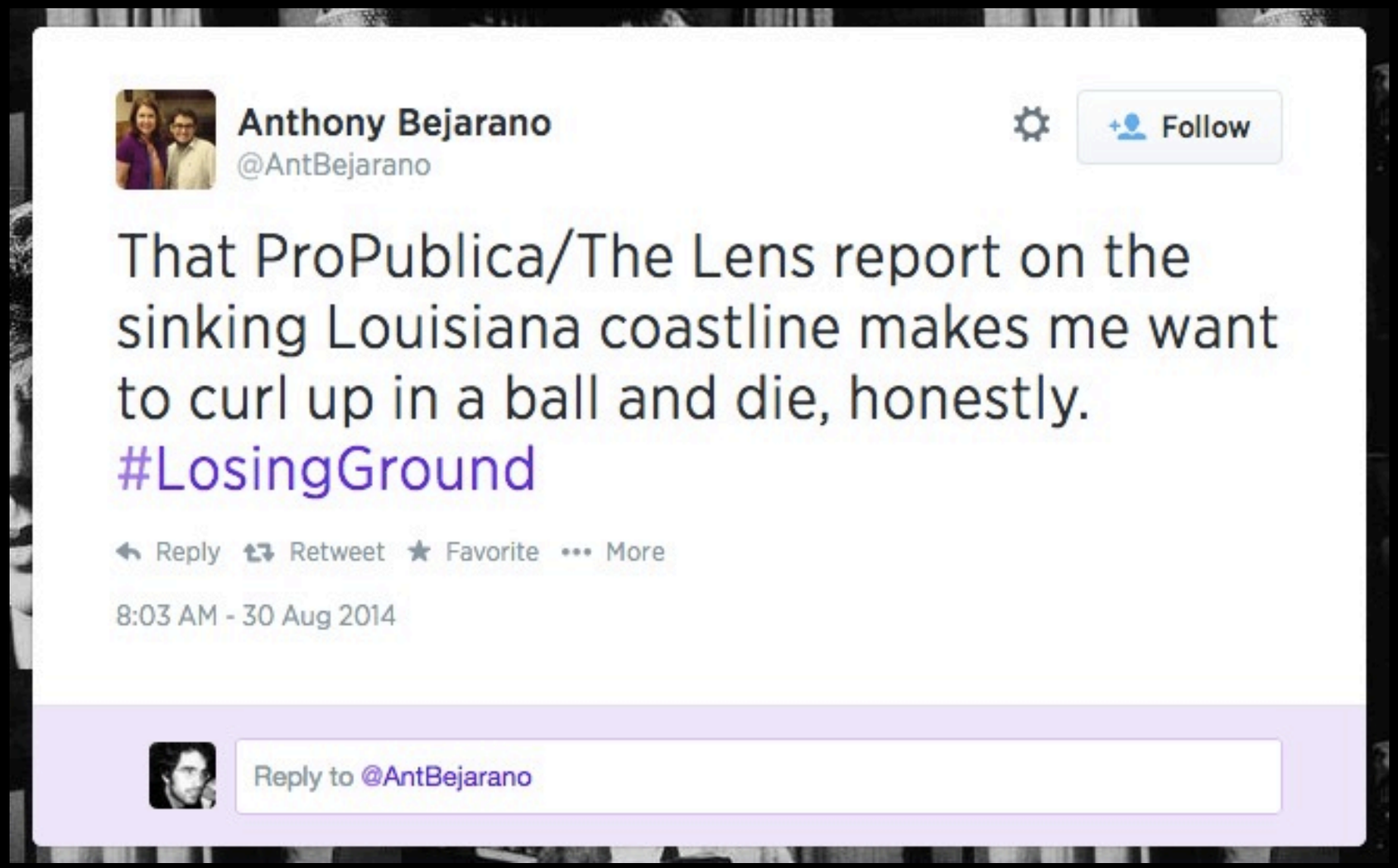


3 km
3 mi

mbert, fishing guide: Saltwater


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
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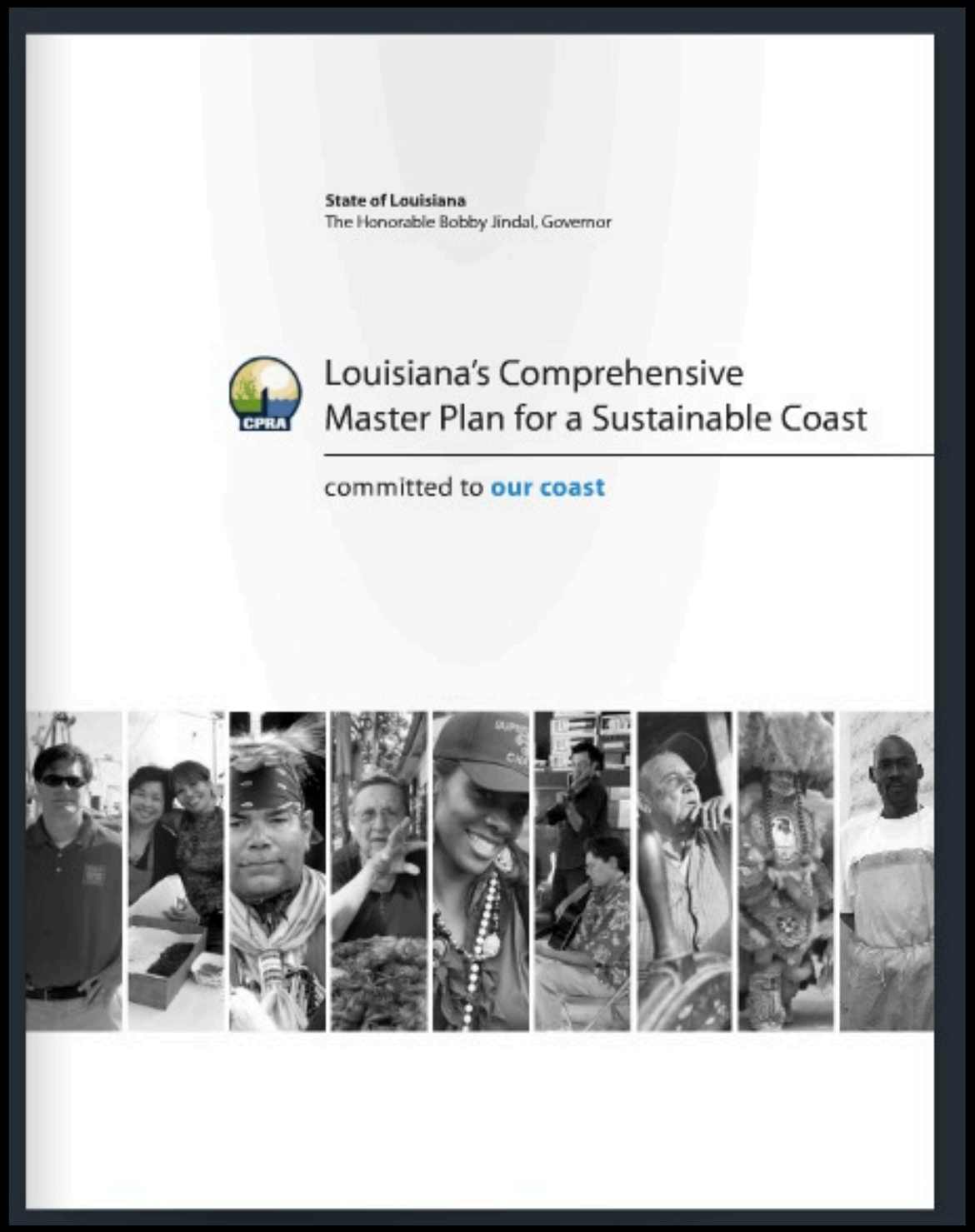
Part 2: A possible solution?

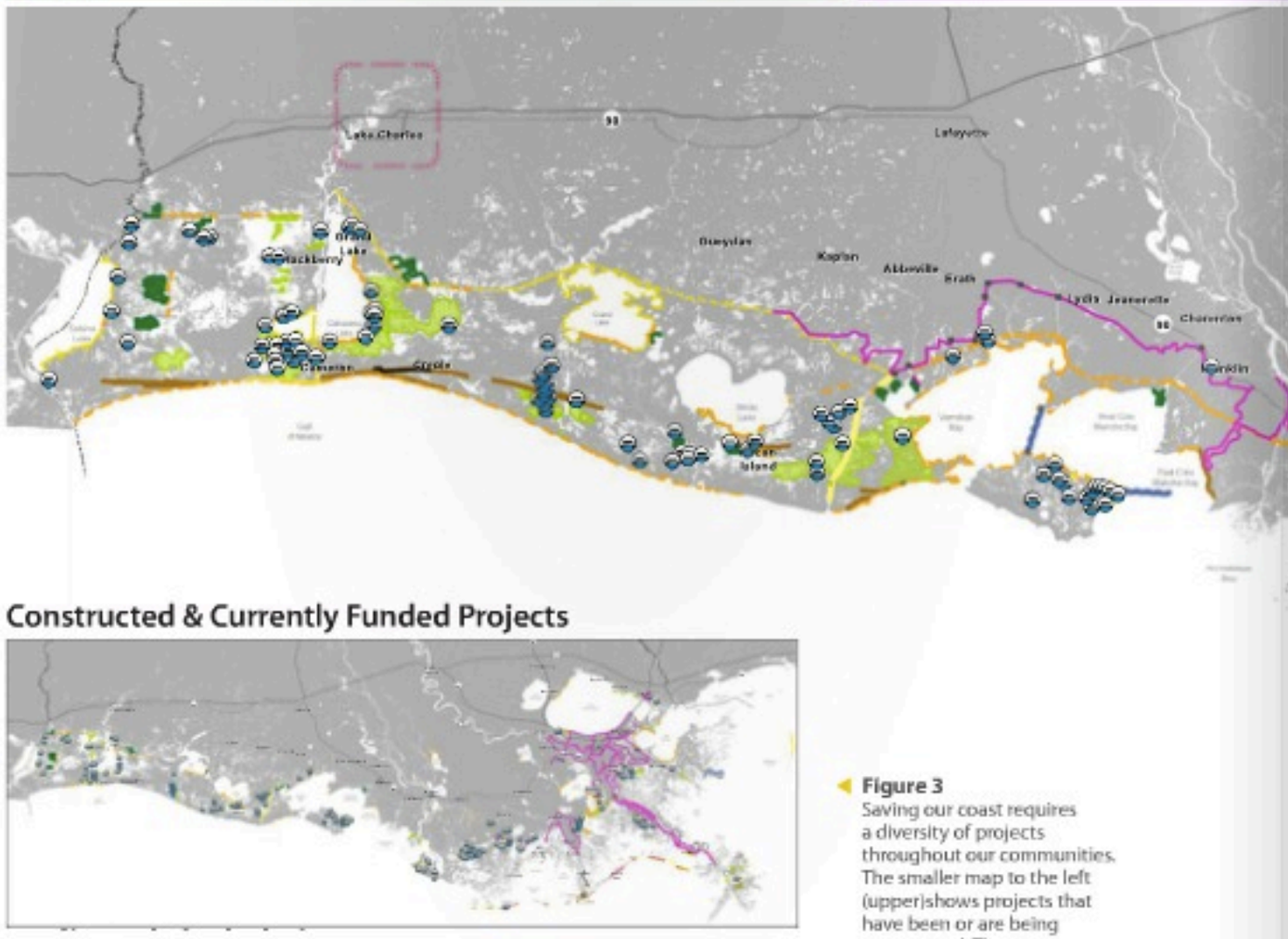


¿Hay una solución?

http://coastal.la.gov/a-common-vision/2012-coastal-master-plan/

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.

http://coastal.la.gov/a-common-vision/2012-coastal-master-plan/

Two main strategies

Dos estrategias principales

Marsh Creation: Lake Hermitage

Creación de pantanos: Lake Hermitage

Google Maps (2012 USGS imagery)

Sediment Diversions: West Bay

Desviación de sedimentos: West Bay

Google Maps (2012 USGS imagery)

Me

Yo

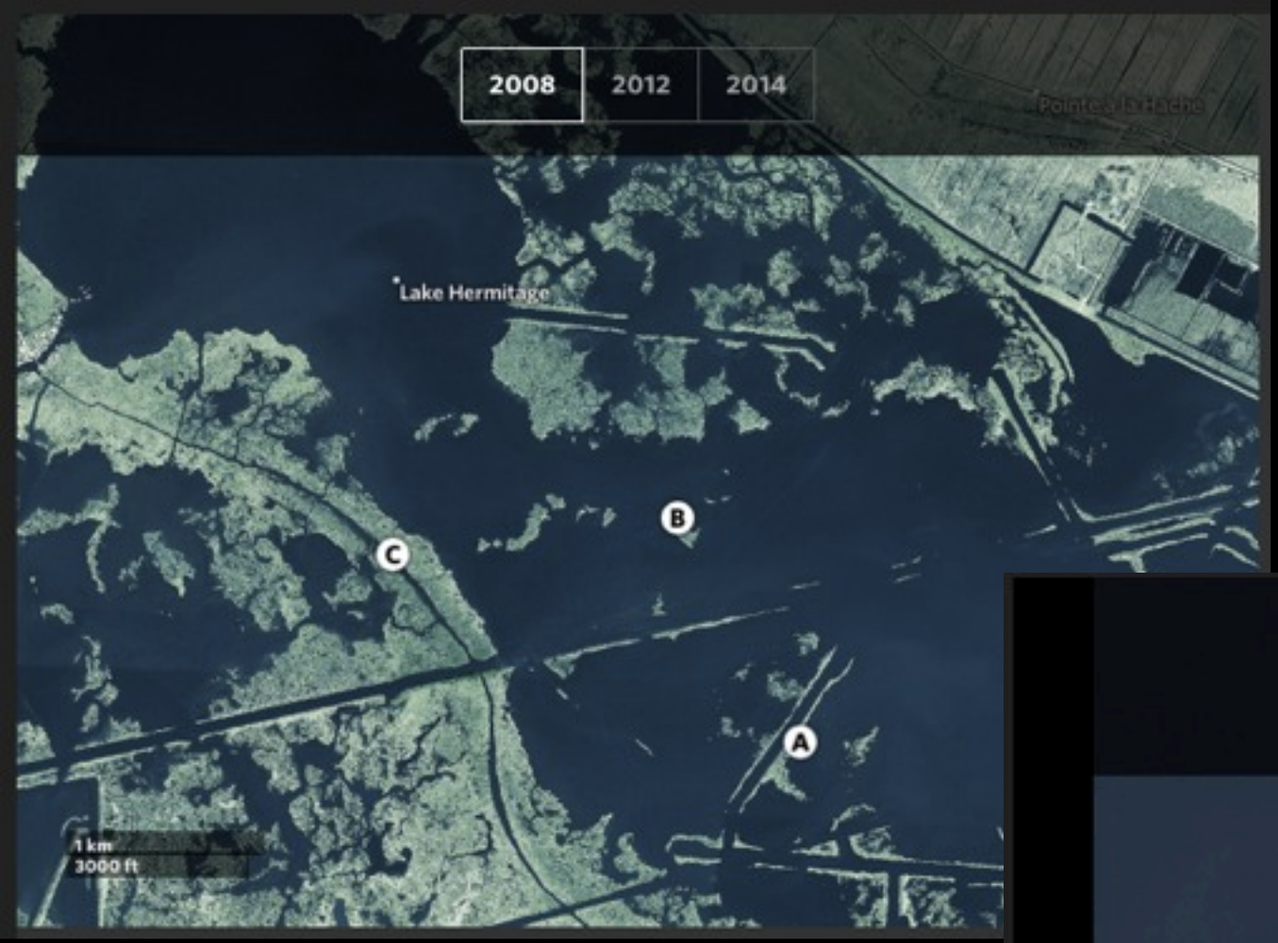
Problem: Images from 2012—now

Problema: Imágenes desde 2012 hasta ahora

Lake Hermitage

publiclab.org

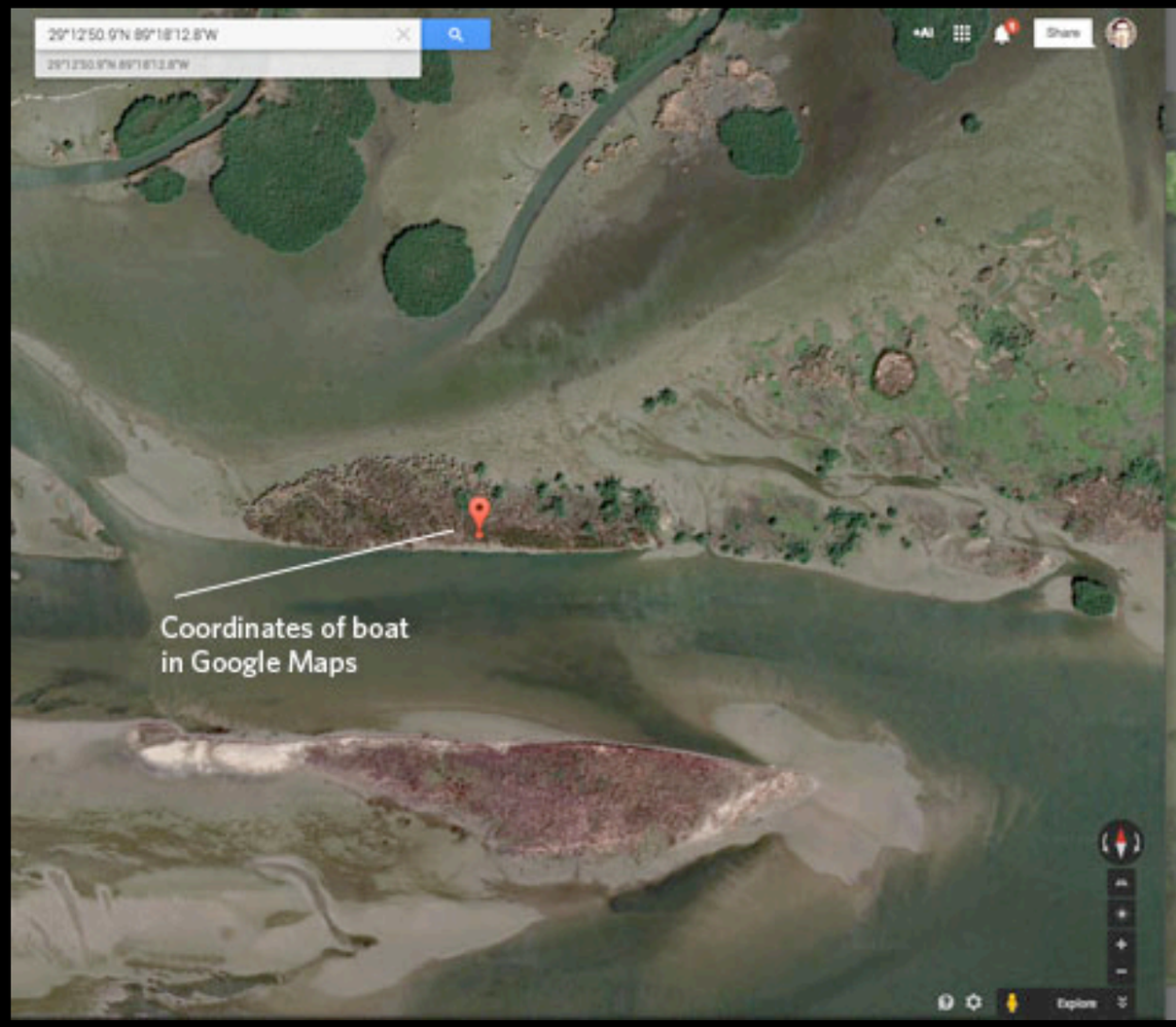
Lake Hermitage



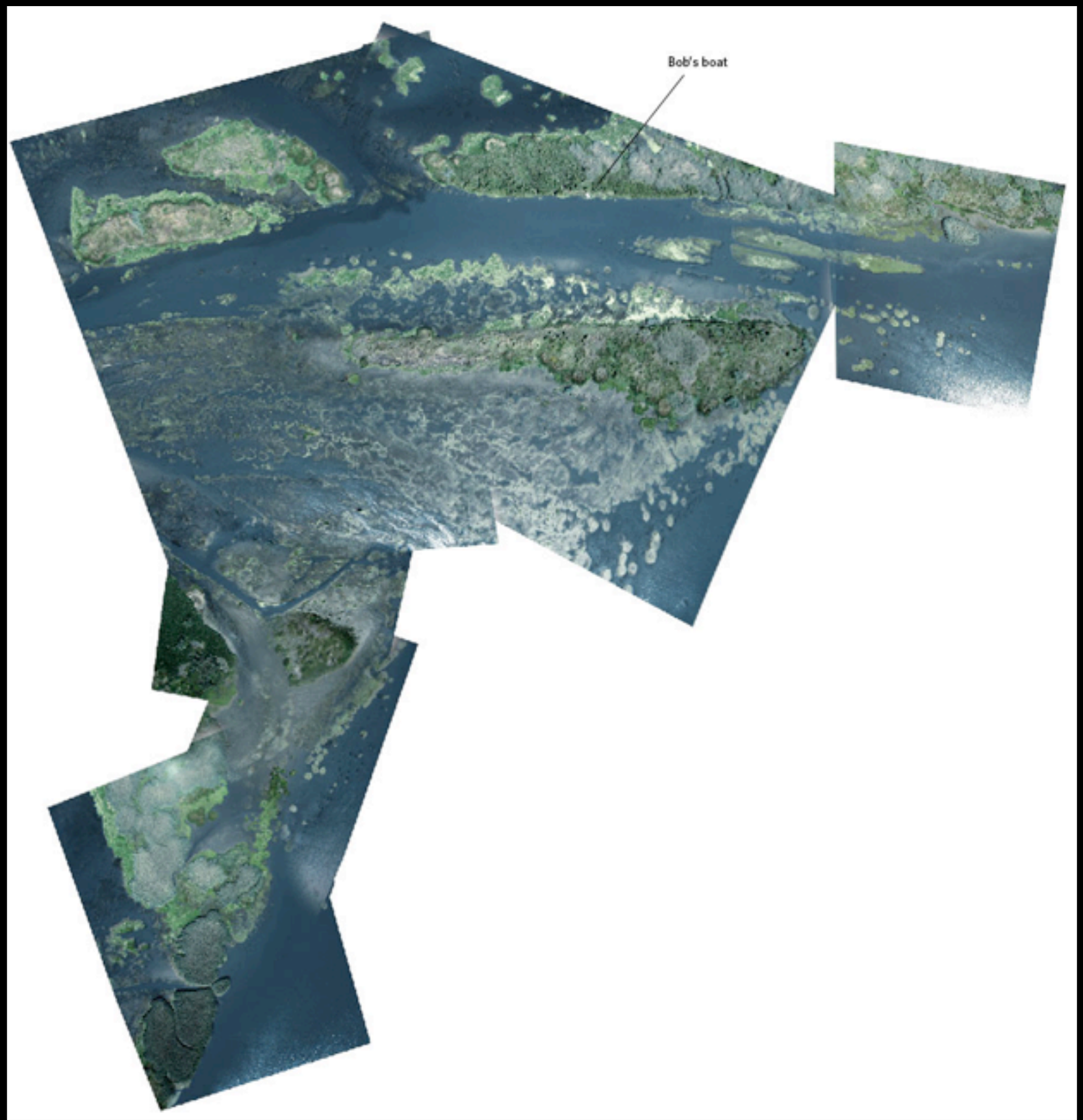
Digital Globe

West Bay Diversion

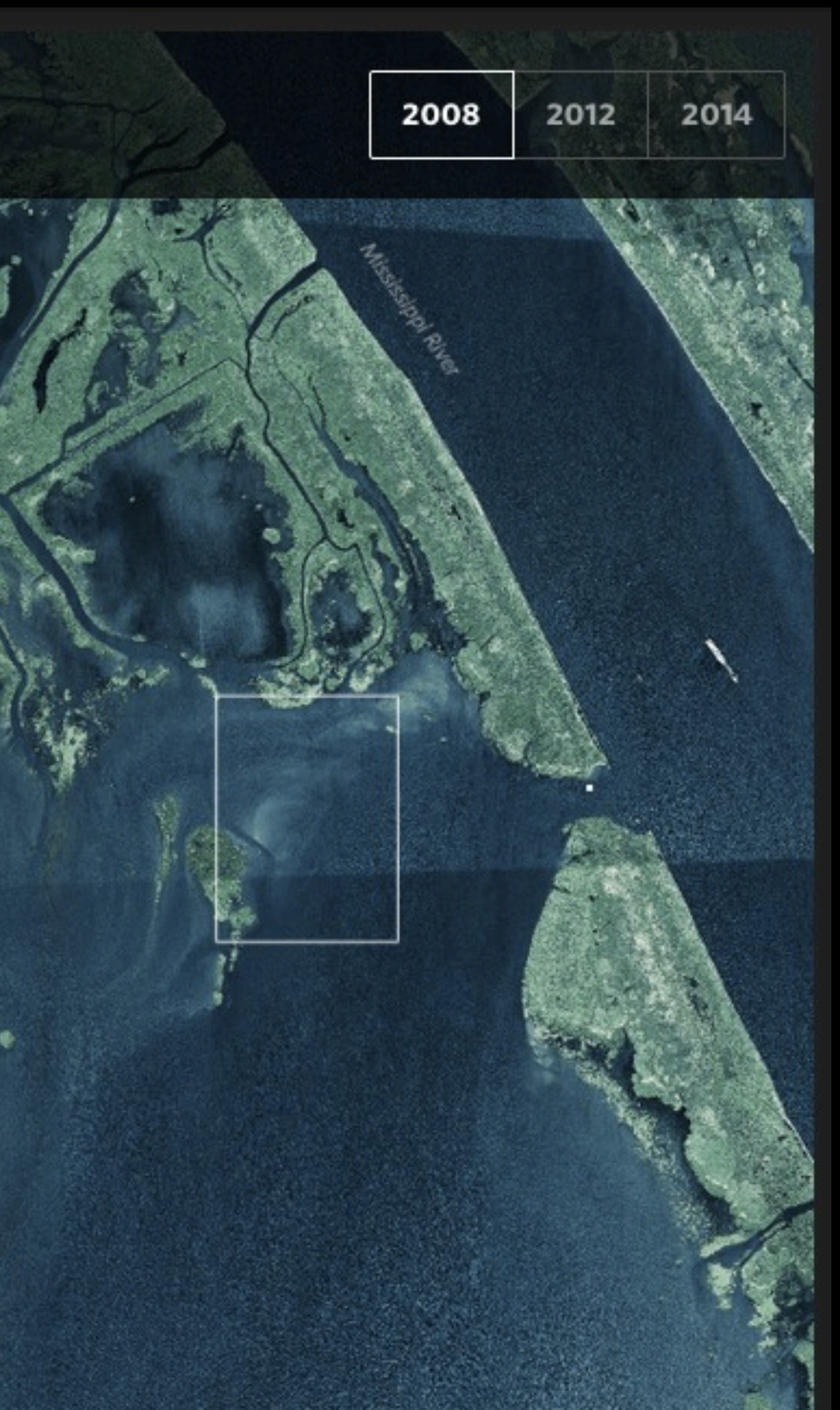
West Bay Diversion

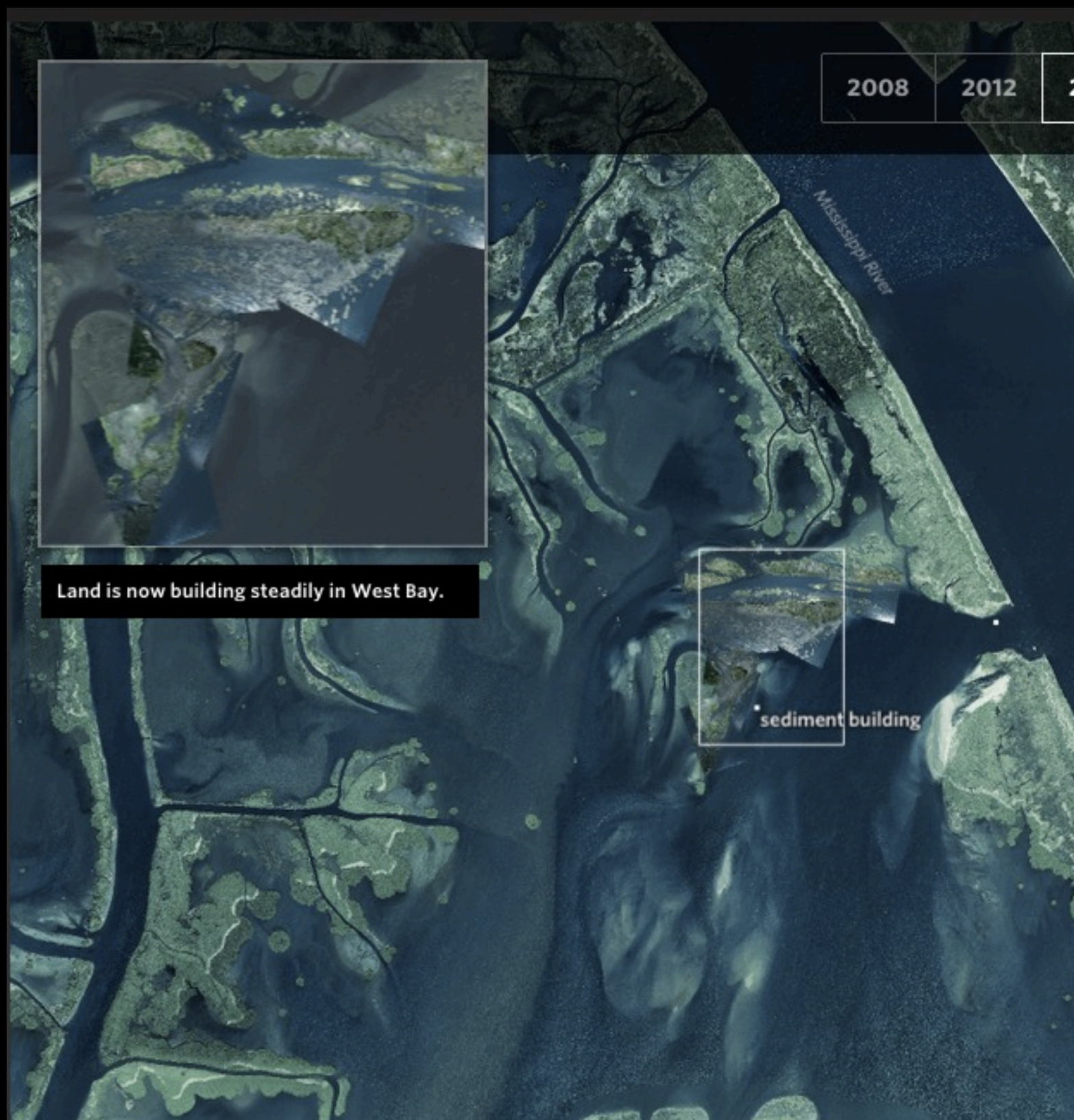


West Bay Diversion



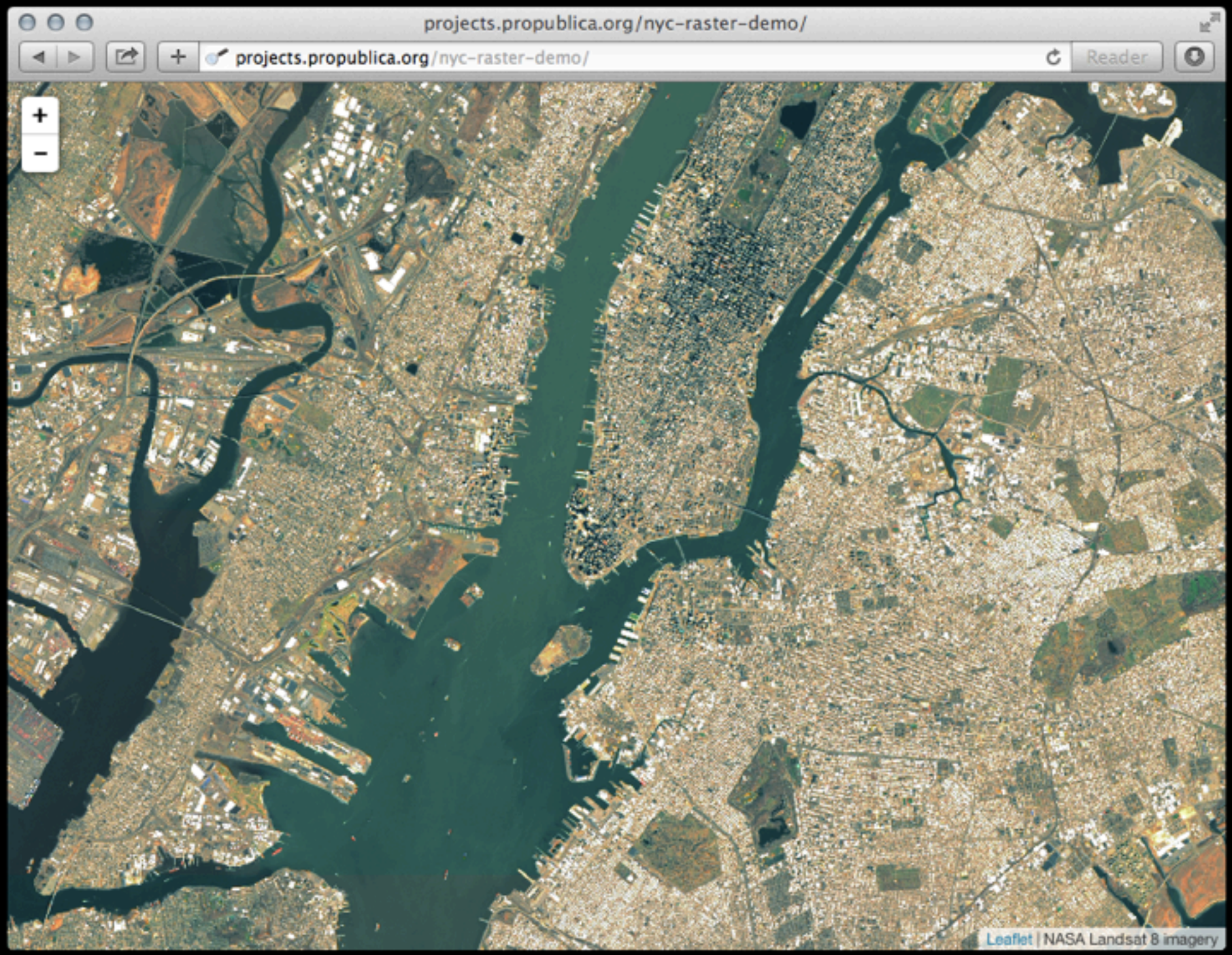
West Bay Diversion





projects.propublica.org/larestoration

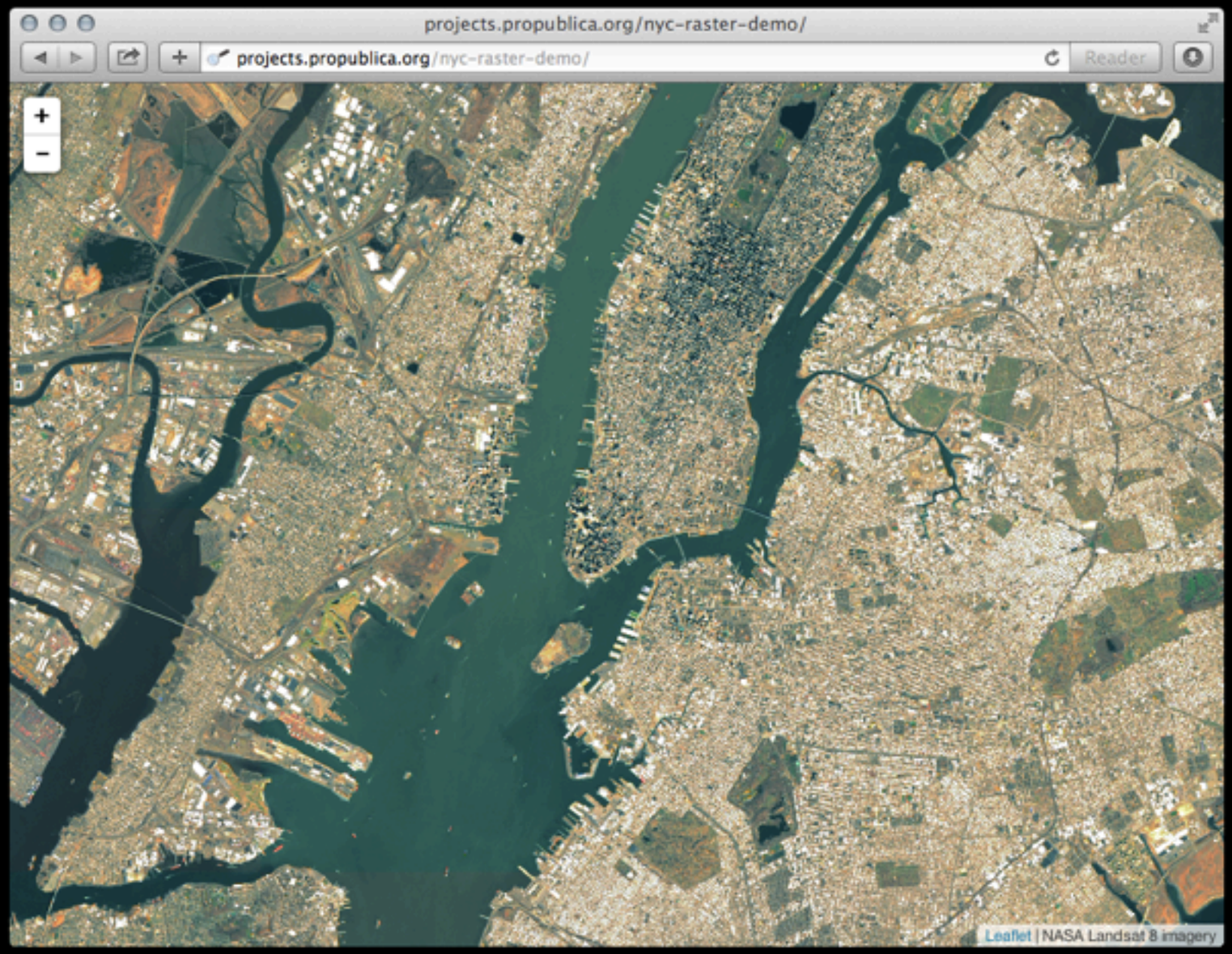
It’s easier than you think



Es más fácil de lo que piensan

5 Lines of Code

5 Lineas de código

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  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