



your online adaptation destination!

WWW.CAKEX.ORG

Tools

Georeferenced Database

The screenshot shows the CAKE website interface. At the top left is the CAKE logo (Climate Adaptation Knowledge Exchange) and navigation links for SIGN IN, REGISTER, MY ACCOUNT, and ABOUT. A search bar is located to the right of these links. Below the navigation is a menu with CASE STUDIES, VIRTUAL LIBRARY, DIRECTORY, TOOLS, and COMMUNITY. The main content area features a large banner for the Alligator River National Wildlife Refuge/Albemarle-Pamlico Peninsula Climate Adaptation Project. To the right of the banner is a 'SEARCH CAKE' section with a world map and a search input field. Below the banner are three columns: Case Study, Virtual Library, and Directory. At the bottom, there are three sections: GET INVOLVED, ADVICE COLUMN, and What is CAKE?. The GET INVOLVED section includes links for forums, workshops, and community sign-up. The ADVICE COLUMN features articles like 'Paper or Plastic?' and 'Adaptation: Now more than ever'. The What is CAKE? section includes a 'CO2 1385.99' graphic and links for more information.

Directory

Virtual Library

Case Studies

Community Building

SEARCH CAKE

Click on the map or type in the search box below.

Display results in a: List Map

NEW TO ADAPTATION?

Need help? [Start here.](#)
We'll get you on the right track!

Text search

Original Content



SEARCH CAKE

Click on the map or type in the search box below.

Search CAKE

Display results in a: List Map

Case Study: Targeting local decision makers. [Read more](#)

Virtual Library: Farmers are changing current practices. [Read more](#)

Directory: Part of the Climate Impacts Group (CIG). [Read more](#)

NEW TO ADAPTATION?

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DON'T PANIC!

GET INVOLVED

Want to get more out of CAKE than we can possibly put into it? See what other users are talking about in the CAKE community!

ADVICE COLUMN

Adaptation: Now more than ever
By: Iara
March 15, 2010

CO₂
1385.9
Why should you

Click here...

...to get to here

Home

Find on Map:

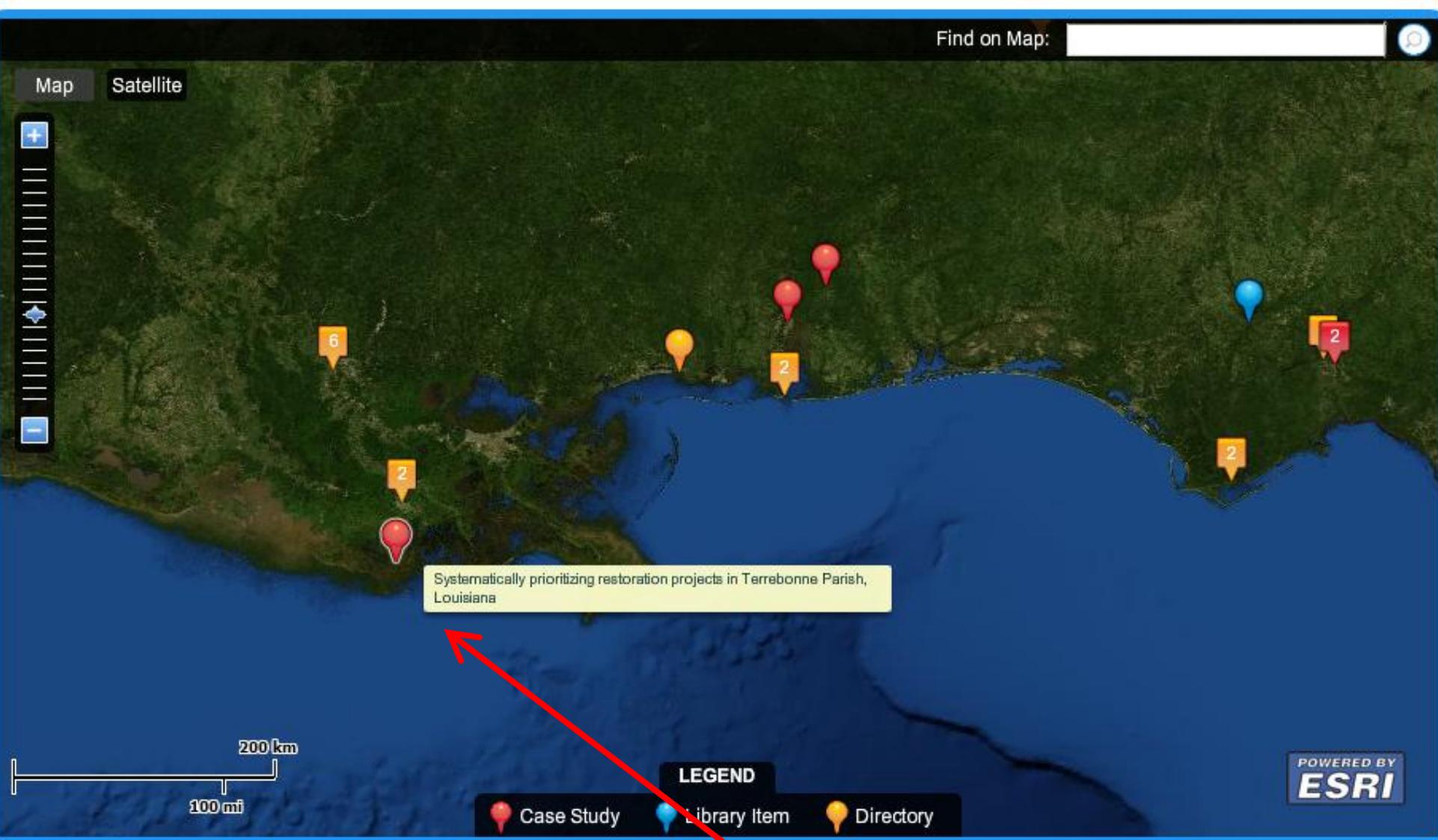
Map Satellite

5000 km
4000 mi

LEGEND

- Case Study
- Library Item
- Directory

POWERED BY **ESRI**



Zoom in to see case studies, people, and library items focused on your area

Hover over an icon to see the title; click to see details

Click through
to associated

people

organizations

documents

Home | Case Studies | Incorporating climate change into the San Lorenzo watershed management plan



Incorporating climate change into the San Lorenzo watershed management plan

PRINT | DOWNLOAD

kfeifel | December 8, 2009

Share This



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San Lorenzo Valley Water District

13060 Highway 9
Boulder Creek, CA, 95060
United States

Project Summary / Overview

In 2008, the Board of the San Lorenzo Water District approved a climate change resolution that commits the District to reducing greenhouse gas emissions and considering the impacts of climate change in all planning documents. The 2009 Master Water Supply and Management Plans discuss how climate change will impact local water resources. Climate change is expected to cause drier and shorter wet seasons regionally making water conservation and efficiency priorities for water managers.

Project Background

In April, 2008, the San Lorenzo Water District (SLWD), in collaboration with nearby water districts, sponsored a local forum titled "Tools for addressing climate change and local water resources." The forum addressed three key questions: 1. What are the potential impacts of climate change on local water resources? 2. How can local water managers plan for these impacts? 3. How can local water agencies reduce their carbon footprint? After the forum concluded, the SLWD Board of Directors approved a climate change resolution mandating that all future documents and plans properly address the impacts, mitigation opportunities, and adaptation strategies to climate change. To assess the vulnerability of the SLWD to future climate change, the District first turned to global climate models to ascertain predicted regional changes. The climate models presented a drier and shorter wet season with a 3o to 10oF increase in annual temperatures by 2100. These findings indicate that the total amount of water available state-wide will decrease, water demand will increase, and the timing of water availability will be altered. To design a water management plan capable to adapt to climate change, the SLWD reanalyzed historical hydrological conditions and water production records dating to 1984 over which time period the SLWD incurred two droughts. This analysis was then extrapolated to 2030 to infer the potential effects of climate change on water resources, assuming that future climate variability reflected historical norms. By 2030, without any supplemental water resources, the Southern Service area of the SLWD may not have enough water to fulfill water resource demands. However, it is expected that the Northern Service will be more resilient to climate impacts, thus if the Northern and Southern Service areas could be connected (an "Intertie"),



CASE STUDIES

Search

Search CAKE

View results as: List Map

Get Involved

View CAKE Opportunities to learn about professional, educational, and funding opportunities

Opportunities

Virtual Library Documents

- Part I: Existing Conditions Report of the District's Watershed Management Plan
- SLWD Water Supply Master Plan May 2009

External Source/Attribution

- San Lorenzo Valley Water District website

