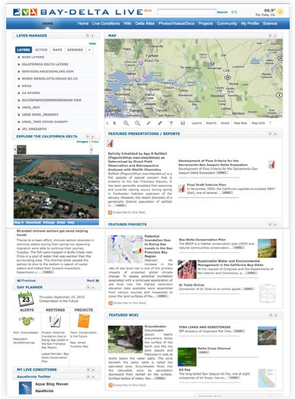
SHARING THE VISION

WHAT IS BAY-DELTA LIVE

Bay-Delta Live is a cooperative arrangement among stakeholder groups to aggregate information about the Sacramento-San Joaquin Delta into a single web site. Bay-Delta Live aims to capture the dynamic estuary with real-time information, interactive mapping and access to the latest research and policy discussions.

COMMUNITY

- Urban
- Environment
- Consumers
- Agriculture
- Water Agencies
- Government Agencies
- Industry



BUILD, ORGANIZE, SHARE

BUILD your own projects, document libraries, wiki topics, visualizations, reports and more.

ORGANIZE AND SHARE your results with the Bay-Delta Community, Project Teams, Colleagues or KEEP PRIVATE. Use your content and pages to promote topics that are important to you and your community.

- Blog
- Document Sharing
- Wikipedia
- Project Posts
- Reports

MOBILE AND PERSONAL

Baydeltalive.com mobile application and desktop widget will keep you and your team connected to important information: Real-Time Station Data Alerts, Project and Document Notifications and Community Updates. Personalize Delta Live and your mobile application to suit your workspace needs and preferences.

ABOUT BAYDELTALIVE.COM

The Sacramento San Joaquin Bay-Delta is a very important topic in the state of California because it is in crisis. The Sacramento-San Joaquin Delta is the hub of California's water system; it is home to a unique and fragile ecosystem; and is the center stage for many stakeholders and their vital interests.

The mission of baydeltalive.com is to aggregate the wealth of knowledge and information that already exists and to display it in an easy-to-use interface. Additionally the web site will make it easy to discover, organize and display information about the Delta and its watershed. Real-time station parameters, water quality data, species and environmental data, GIS data and more.

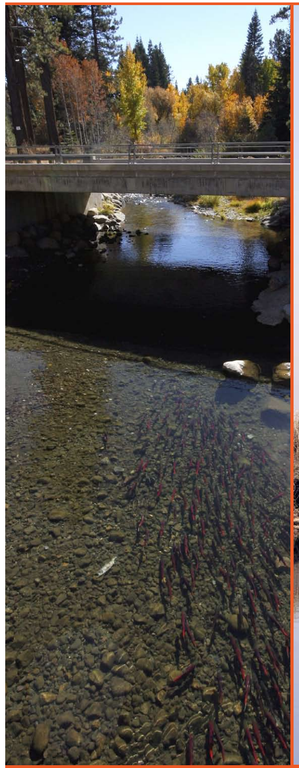
Baydeltalive.com is a place where stakeholders may go to contribute and gather the necessary information to make the important decisions that lay ahead. It will also be a place to track and monitor progress of these important decisions.

BAYDELTALIVE.COM

Printed on 100% recycled content, 50% post-consumer waste, processed chlorine-free paper.

BAY-DELTA LIVE

COLLABORATIVE SCIENCE FOR THE BAY-DELTA COMMUNITY



REAL-TIME MONITORING | INTERACTIVE MAPPING | LATEST RESEARCH

BAY-DELTA LIVE

COMMUNITY DATA IN ONE PLACE

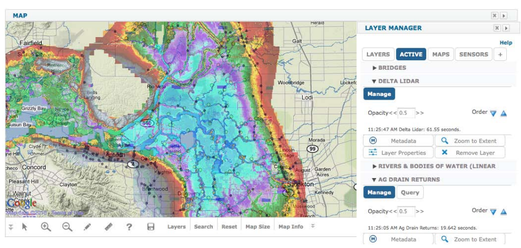
DATA AT YOUR FINGERTIPS

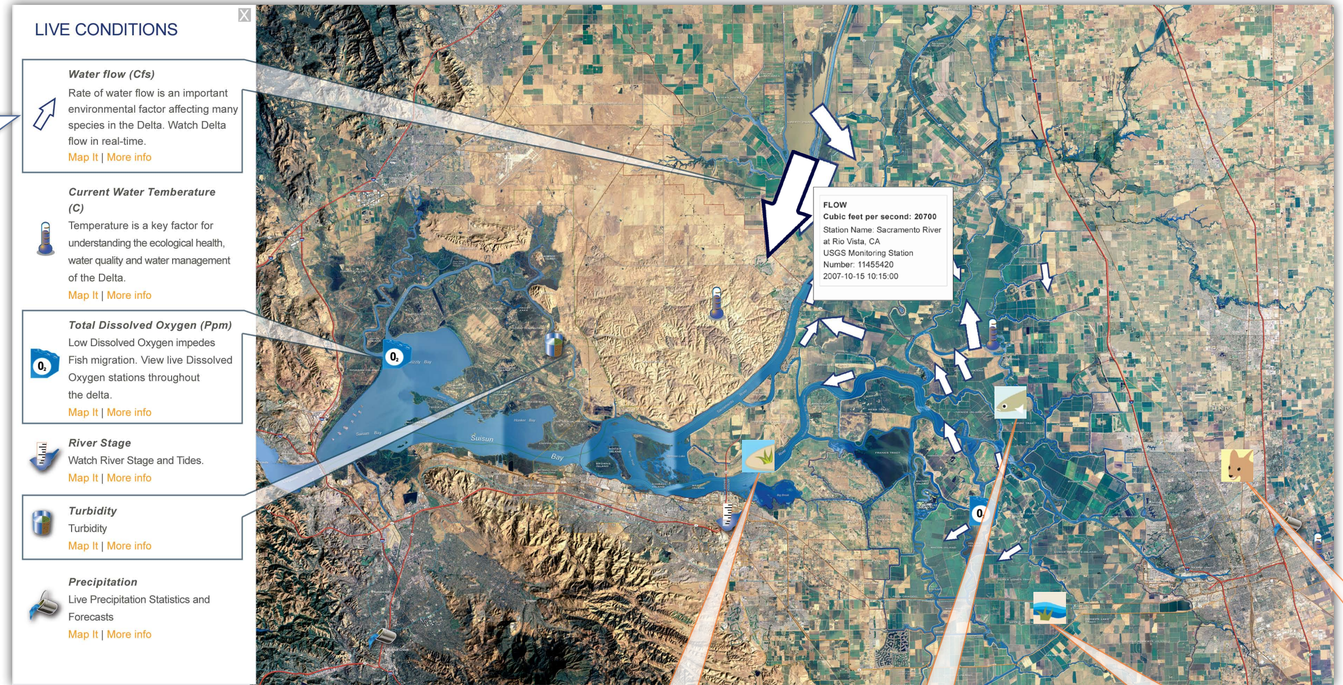
Visualize and access the Delta's real-time station data from CDEC, USGS NWIS and NOAA using easy data tools. Accessing turbidity, temperature, flow, wind speed, water quality and more than 50 station parameters has been simplified. Additional datasets on Delta Live (or coming in 2010) include:

DOCUMENTATION	GIS DATA	DATASETS
Images	Imagery (Lidar/Bathymetry)	DWR CDEC Station Data
Reports	Base Maps	USGS NWIS Station Data
Presentations	Water & Infrastructure	CADFG 20 MM Trawl Data
Videos	Delta Features & County Data	CADFG SKT Trawl Data
News	Species & Environment	Water Quality
Journals	Weather & Tides	Species Data
Maps	Monitoring Stations	Custom Datasets
Meeting Materials	ArcGIS Online Services	

INTERACTIVE MAPPING

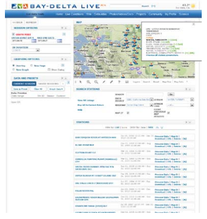
Delta Live easy-to-use GIS tools brings mapping and visualization out of the back office. Users can access and contribute an unlimited amount informational layers about the Delta to better manage and visualize projects and project data. Delta Live currently displays all DWR Casil layers (features, species data, water & infrastructure etc), an extensive library of base maps (Google, Bing, Open Street Maps), bathymetry data, monitoring data and more. Build rich maps using data layers, drawing and query tools and then share your combinations with projects, wikis and the community.





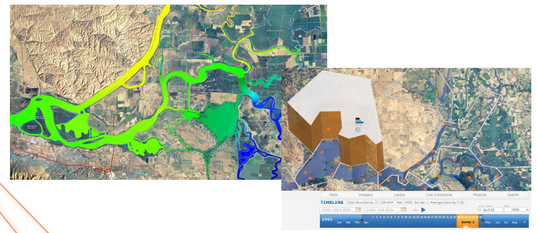
REAL-TIME DATA TOOLS

ACCESS AND ANALYZE DATA



Using Delta Live Real-Time Data Tools, users can easily access real-time station sensor data, analyze the data using USGS GR graphing application, and VISUALIZE the data using the 2-D or 3-D mapping and modeling toolset.

TIME SERIES DATA VISUALIZED MANY WAYS

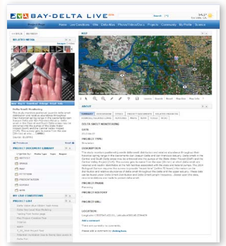


PLANNING AND MANAGEMENT TOOLS

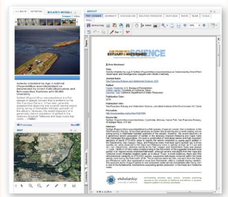
AGGREGATE | ORGANIZE | BUILD | ANALYZE | VISUALIZE | COLLABORATE

Delta Live provides efficient and elegant access to data and information using basic project management tools, document management tools, wikis and maps. Users can upload documents, create projects and project teams, build wiki pages, maps and more. Users may make associations to each asset for simple storytelling and communication. All information is stored using your profile and can be made public or kept private.

PROJECTS

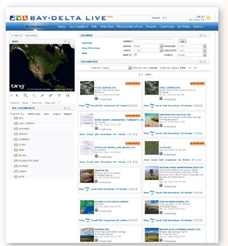


DOCUMENTS



WIKIS

ARCHIVE



MOBILE APPS

CALIFORNIA ESTUARY MONITORING WORKSHOP MEETING

JANUARY 26, 2011




34 NORTH

WEB SERVICES • GIS • VISUALIZATION

Open and Collaborative
Natural Resource Management

34 North

- Over 15 years GIS experience
- 12 years of high profile website development

Our experience gives our clients the benefits of geospatial and the functionality and versatility of enterprise websites.

Clients include: State Federal Water Contractors Agency, USGS, Metropolitan Water District of Southern California, XPrize/SpaceshipOne, Warner Brothers, Sundance Film Festival, Cartoon Network (and more).

2005 Webby Awards Nominee

TIME 50 Coolest Websites 2005

2006 Webby Awards People's Voice Winner

2006 Webby Awards Winner

The Core Technologies: Open NRM

Open Natural Resource Management

- A Suite of web based tools for analyzing and managing natural resources.

- Composed of a number of inter-dependant software modules.

Mapping

Collaboration

CMS: Content Management System

Project Management

Custom Templates

Support

Mapping

Web Services

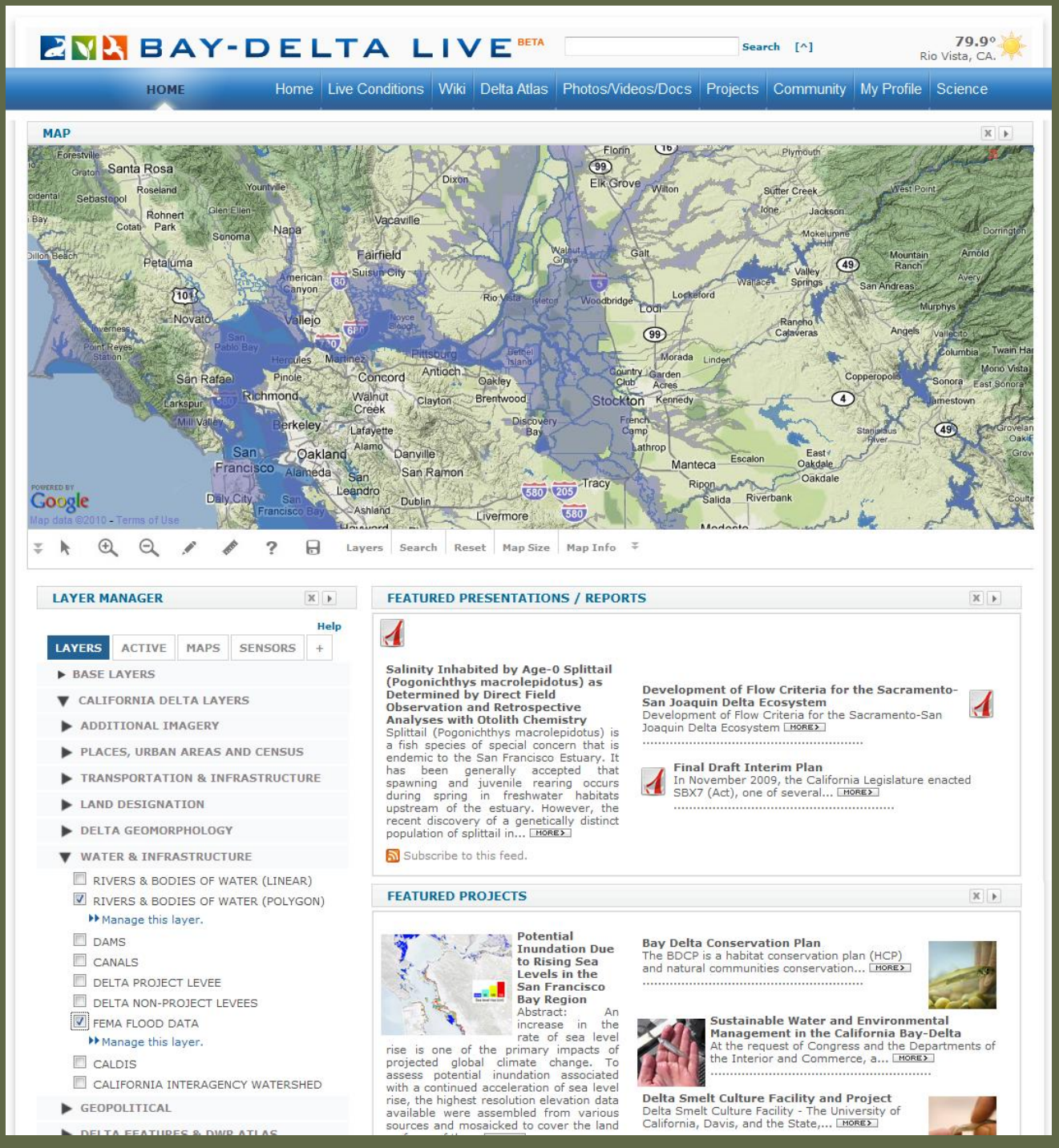
Collaborate-Wiki

Presentation

Document Management

Project Management

Social Networking



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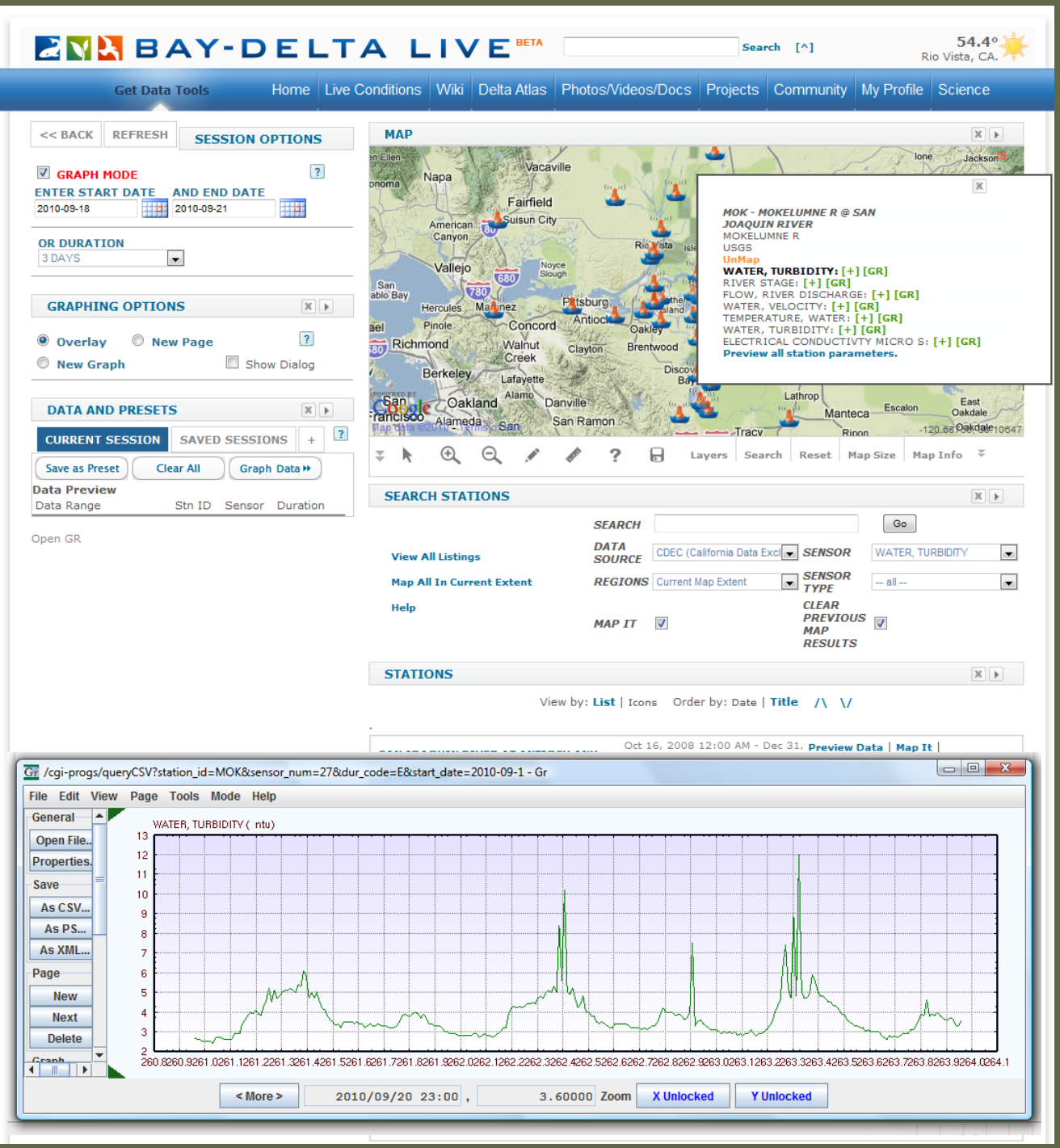

Mapping

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BAY-DELTA LIVE BETA

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48.3° Rio Vista, CA.

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BACK TO CALIFORNIA WIKI

Article | Viewer | Map | Related/Results | + Share

MAIN | SEARCH RELATED | + TOOLS | + NEW

Chinook Salmon

Share

CAPTION

Chinook Salmon

DESCRIPTION

Chinook salmon are easily the largest of any salmon, with adults often exceeding 40 pounds (18 kg); individuals over 120 pounds (54 kg) have been reported. Chinook salmon are very similar to coho salmon in appearance while at sea (blue-green back with silver flanks), except for their large size, small black spots on both lobes of the tail, and black pigment along the base of the teeth. Adults migrate from a marine environment into the freshwater streams and rivers of their birth in order to mate (called anadromy). They spawn only once and then die (called semelparity). They feed on terrestrial and aquatic insects, amphipods, and other crustaceans while young, and primarily on other fishes when older. Populations exhibit considerable variability in size and age of maturation, and at least some portion of this variation is genetically determined. There is a relationship between small size and long distance of migration that may also reflect the earlier timing of river entry and the cessation of feeding for Chinook salmon stocks that migrate to the upper reaches of river systems. Body size, which is related to age, may be an important factor in migration and spawning bed, or redd, construction success. Juvenile Chinook may spend from 3 months to 2 years in freshwater before migrating to estuarine areas as smolts and then into the ocean to feed and mature. Chinook salmon remain at sea for 1 to 6 years (more commonly 2 to 4 years), with the exception of a small proportion of yearling males (called jack salmon) which mature in freshwater or return after 2 or 3 months in salt water. There are different seasonal (i.e., spring, summer, fall, or winter) "runs" in the migration of Chinook salmon from the ocean to freshwater, even within a single river system. These runs have been identified on the basis of when adult Chinook salmon enter freshwater to begin their spawning migration. However, distinct runs also differ in the degree of maturation at the time of river entry, the temperature and flow characteristics of their spawning site, and their actual time of spawning. Freshwater entry and spawning timing are believed to be related to local temperature and water flow regimes. Adult female Chinook will prepare a redd (or nest) in a stream area with suitable gravel type composition, water depth and velocity. The adult female Chinook may deposit eggs in 4 to 5 "nesting pockets" within a single redd. Spawning sites have larger gravel and more water flow up through the gravel than the sites used by other Pacific salmon. After laying eggs in a redd, adult Chinook will guard the redd from just a few days to nearly a month before dying. Chinook salmon eggs will hatch, depending upon water temperatures, 3 to 5 months after deposition. Eggs are deposited at a time to

SCIENTIFIC NAME

Oncorhynchus tshawytscha - (Walbaum, 1792)

OVERVIEW

Delta Blues: Trucking salmon around the California Delta from Steven Johnson on Vimeo.

Four distinct runs of Chinook salmon spawn in the Sacramento-San Joaquin River system, named for the season when the majority of the run enters freshwater as adults. Fall-run Chinook migrate upstream as adults from July through December and spawn from early October through late December. The timing of runs varies from stream to stream. Late fall-run Chinook migrate into the rivers from mid-October through December and spawn from January through mid-April. The majority of young salmon of these races migrate to the ocean during the first few months following emergence, although some may remain in freshwater and migrate as yearlings. Fall-run Chinook are currently the most abundant of the Central Valley races, contributing to large commercial and recreational fisheries in the ocean and popular sportfisheries in the freshwater streams. Fall-run Chinook are raised at five major Central Valley hatcheries which release more than 32 million smolts each year. Due to concerns over population size and hatchery influence, Central Valley fall/late fall-run Chinook salmon are a Species of Concern under the federal Endangered Species Act.

SPECIES OF CONCERN

yes

CONSERVATION STATUS

(SE,FT)

NATIVE

yes

KINGDOM

Animalia

PHYLUM

Chordata

CLASS

Actinopterygil

ORDER

Salmoniformes

FAMILY

Salmonidae

GENUS

Oncorhynchus

SPECIES

Oncorhynchus tshawytscha (Walbaum in Artedi, 1792) -- Chinook salmon, chinook salmon or king salmon, salmon boquinegra, saumon chinook

Mapping

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54.1° Rio Vista, CA.

Delta Atlas Maps | Home | Live Conditions | Wiki | Delta Atlas | Photos/Videos/Docs | Projects | Community | My Profile | Science

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DELTA ATLAS MAPS

- The Legal & Primary Delta
- Major Roads
- Railroads
- Deep Water Ship Channels
- Power Transmission Lines
- Gas & Oil Fields/Storage
- Islands & Waterways
- Population & Counties
- Urban Areas
- Land Use
- Conservation Lands
- Protected Lands
- Managed Lands
- Organic Soils
- Elevations
- Marsh Watersheds
- Suisun Marsh Boundaries
- Recreation
- Boat Launch Facilities
- Tidal Flows
- Tidal Levels
- Historic Flooding 1930-1966
- Recent Flooding 1967-1992
- 100-Year Flood Stage Elevations
- Salinity 1921-1944
- Salinity 1944-1990
- Irrigation Diversions
- Agricultural Drainage Returns
- Monitoring Stations
- Major Diversions
- Project & Nonproject Levees
- Aqueducts
- Constructed Waterways
- Congressional Districts
- State Senate Districts

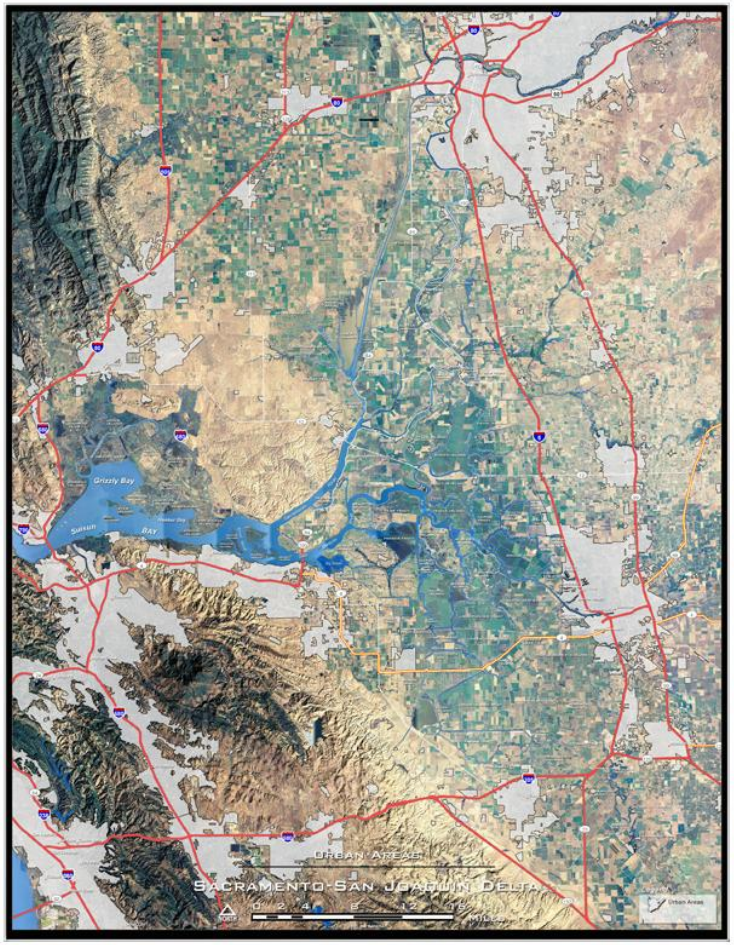
DELTA ATLAS MAPS

- The Legal & Primary Delta
- Major Roads
- Railroads
- Deep Water Ship Channels
- Power Transmission Lines
- Gas & Oil Fields/Storage

DELTA ATLAS

Urban Areas
Source: California Department of Water Resources
Map Design: 34 North

To Download this map CLICK HERE.



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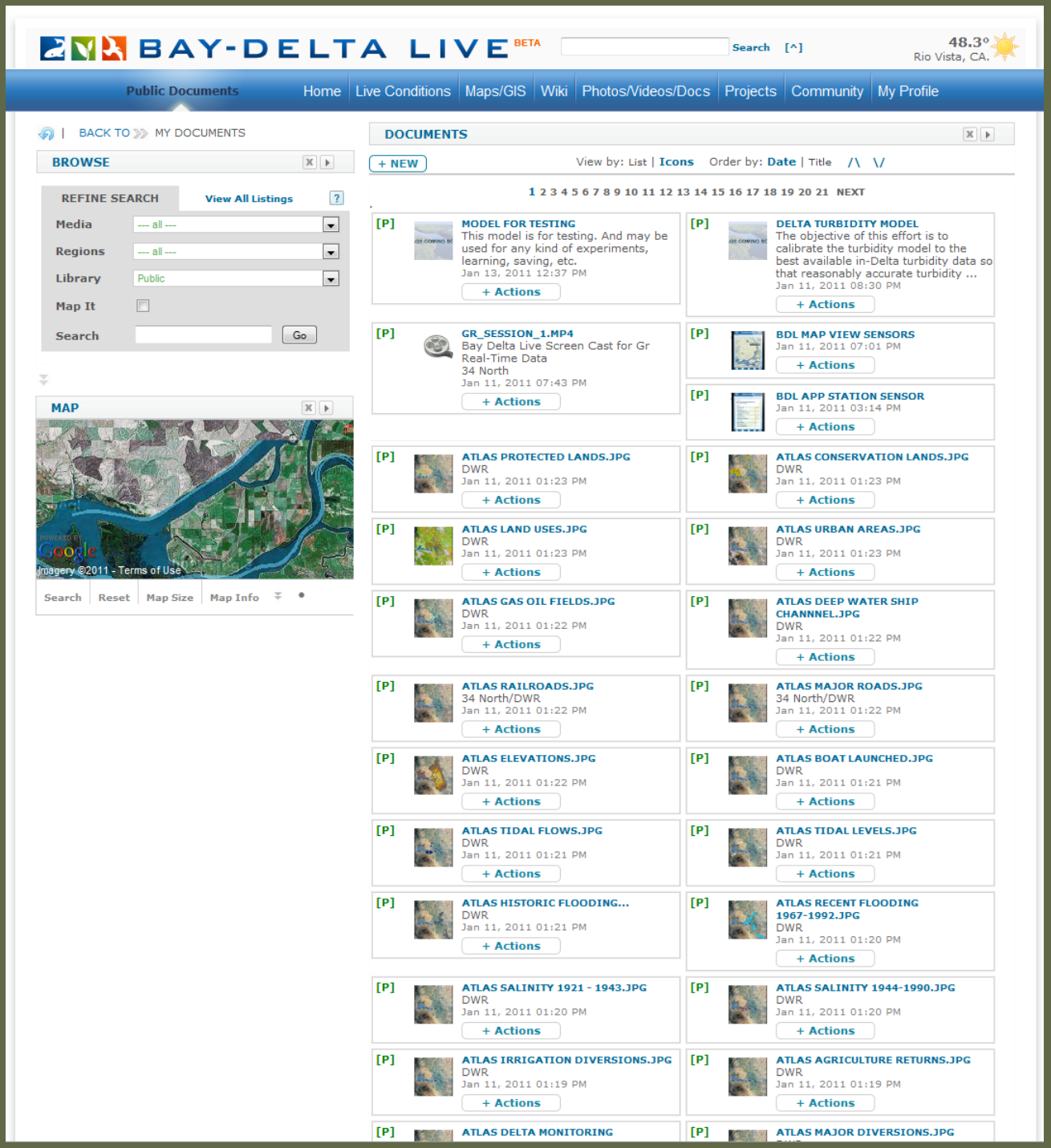

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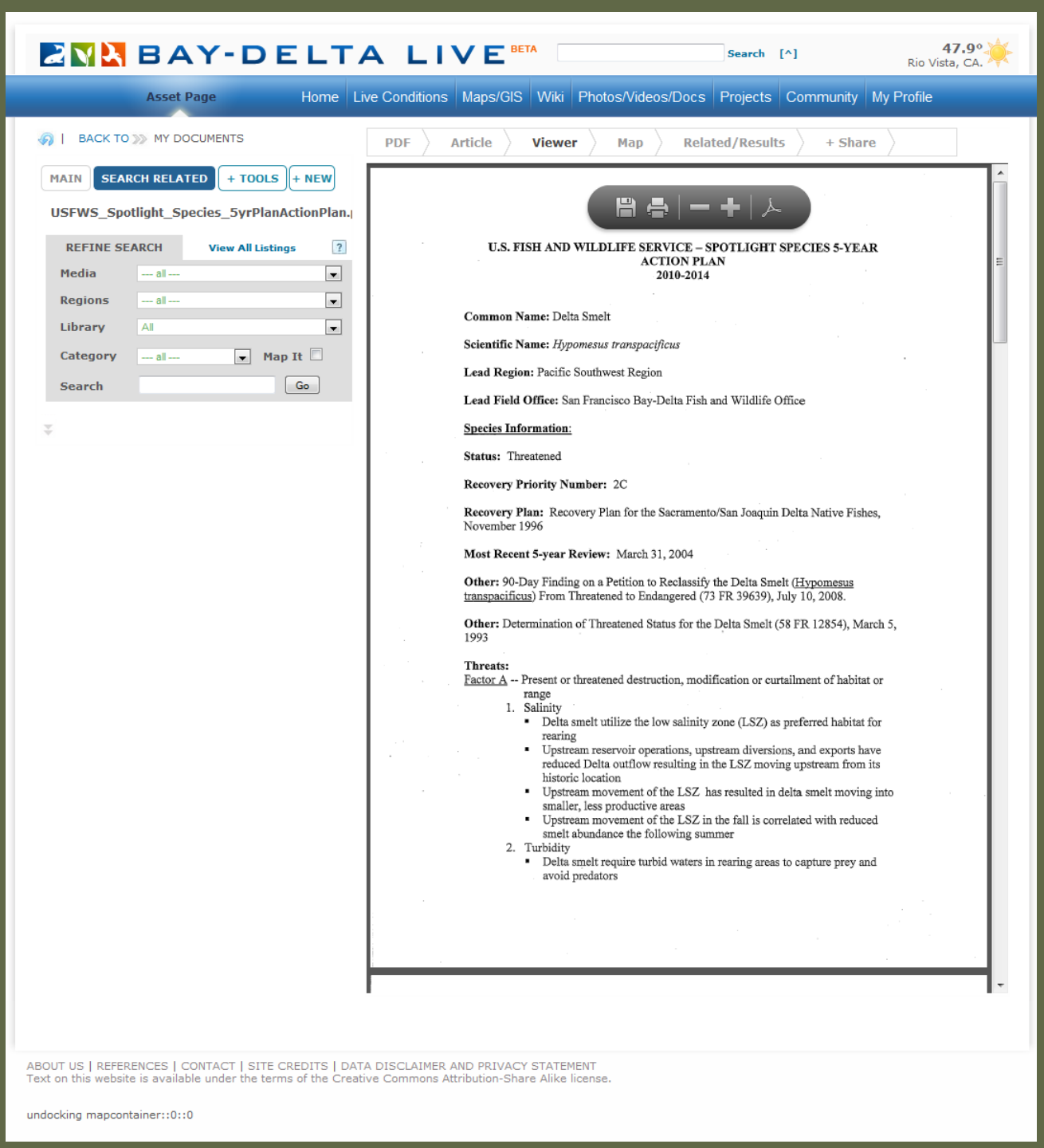

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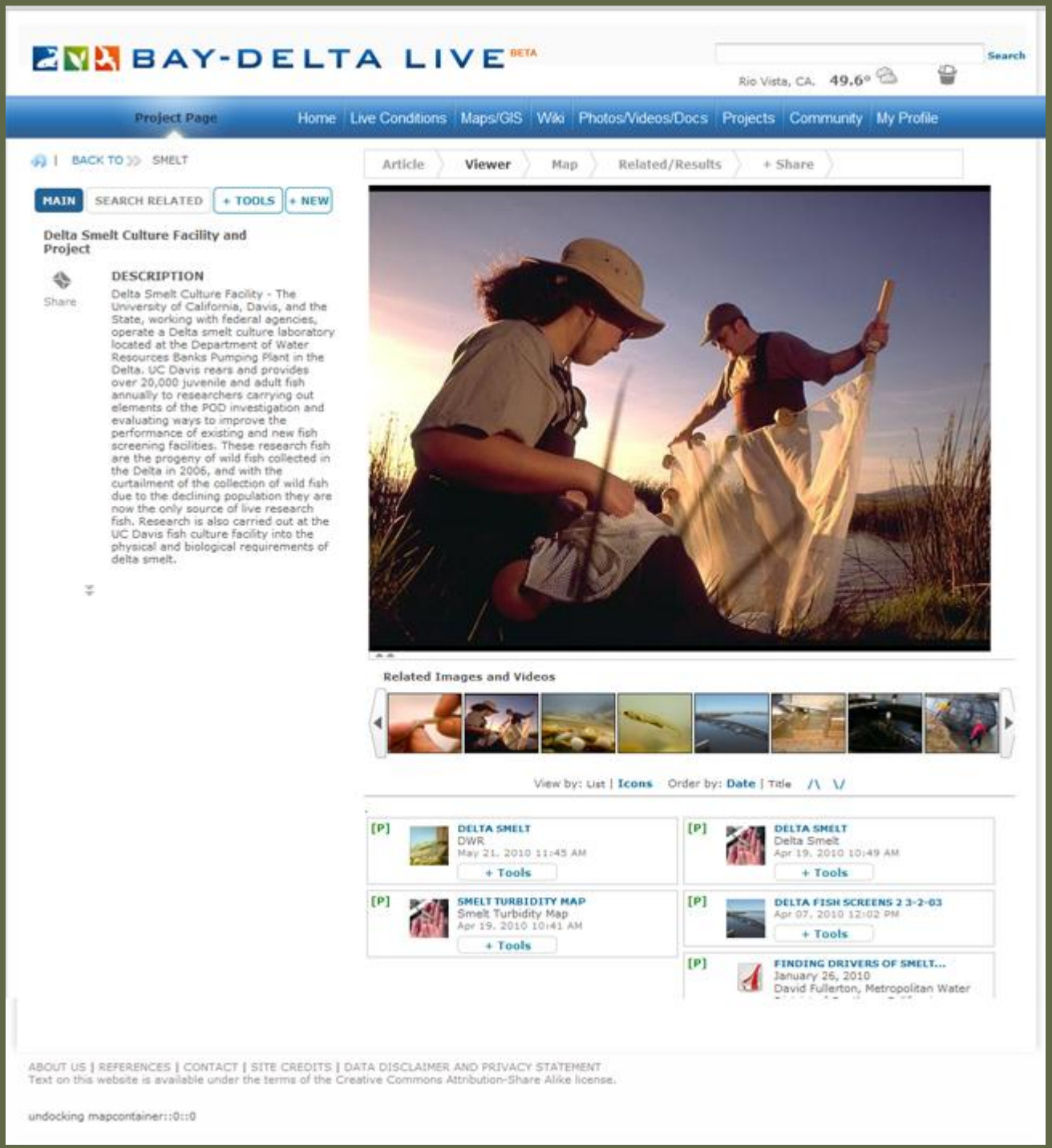

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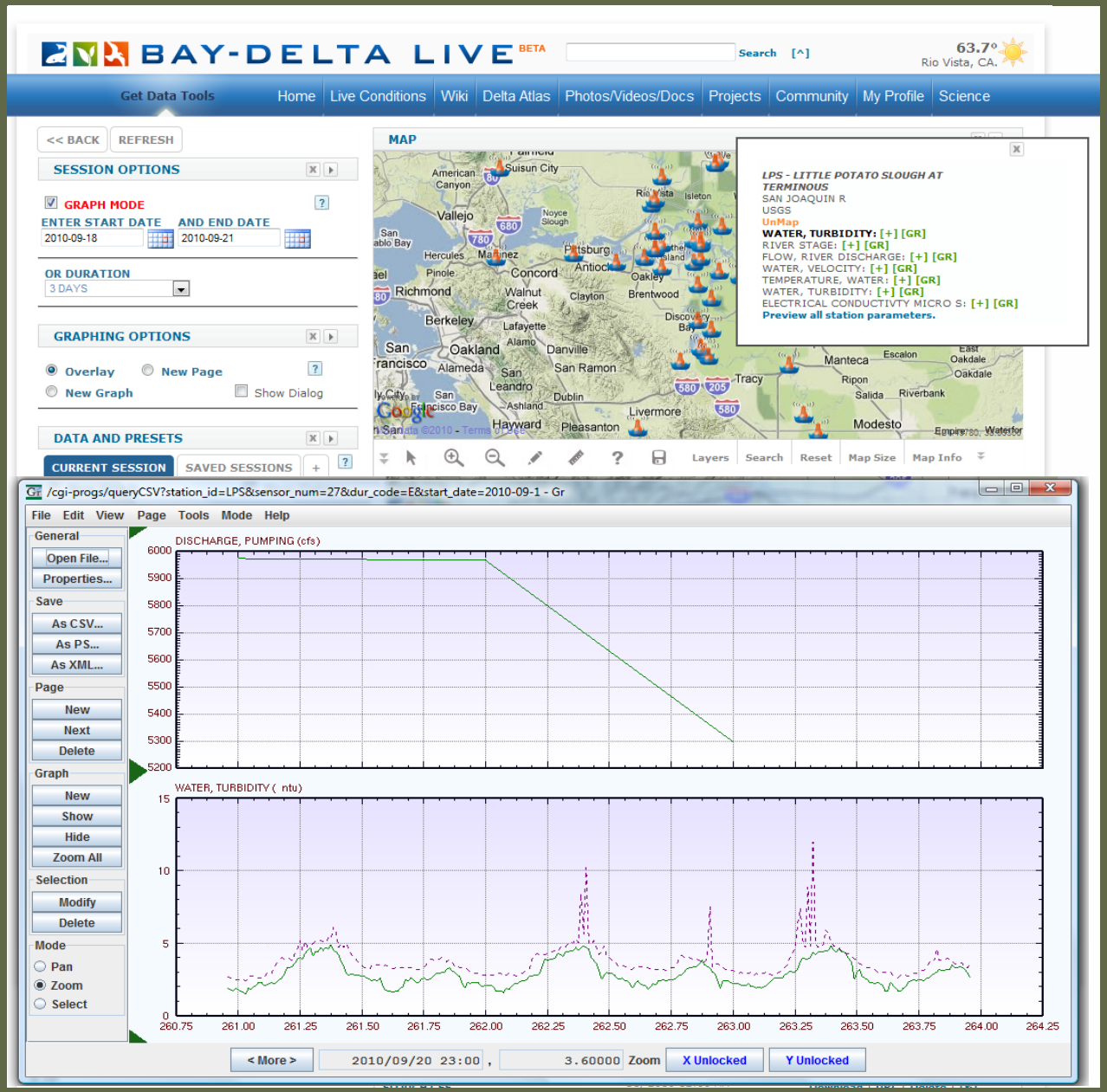
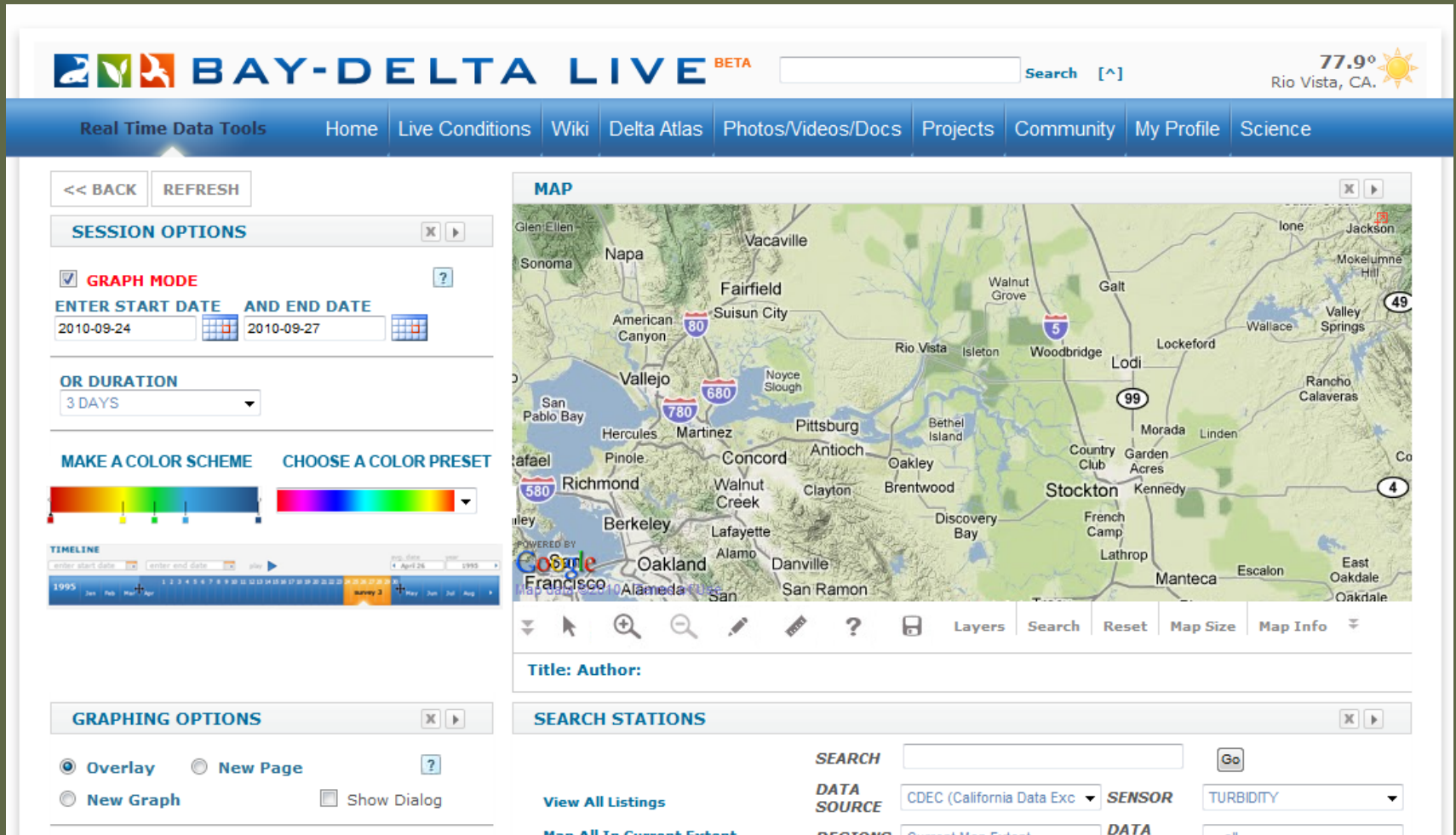
Real Time Data Management Tools

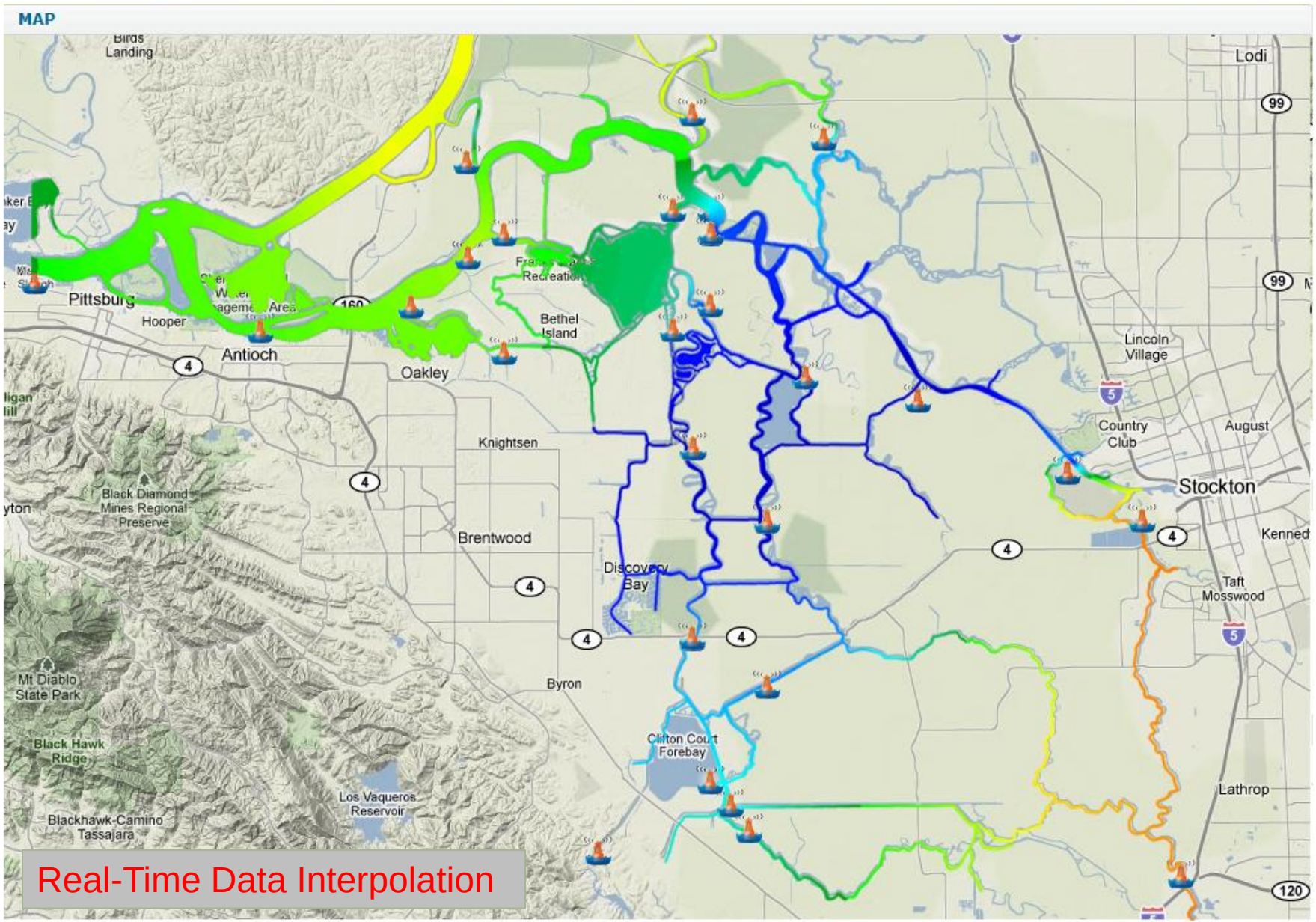


- Access Real Time Data from CDEC
- Select Sensor Type
- Choose Time Frame
- One Click Graph Mode
- Send Data to GR
- Overlay Data – Add new graphs

Using Time Series Data for Scalar Field Interpolations:

A Spatial Contour Mapping and Animation Modeling Toolset to Observe Point Time Series Data

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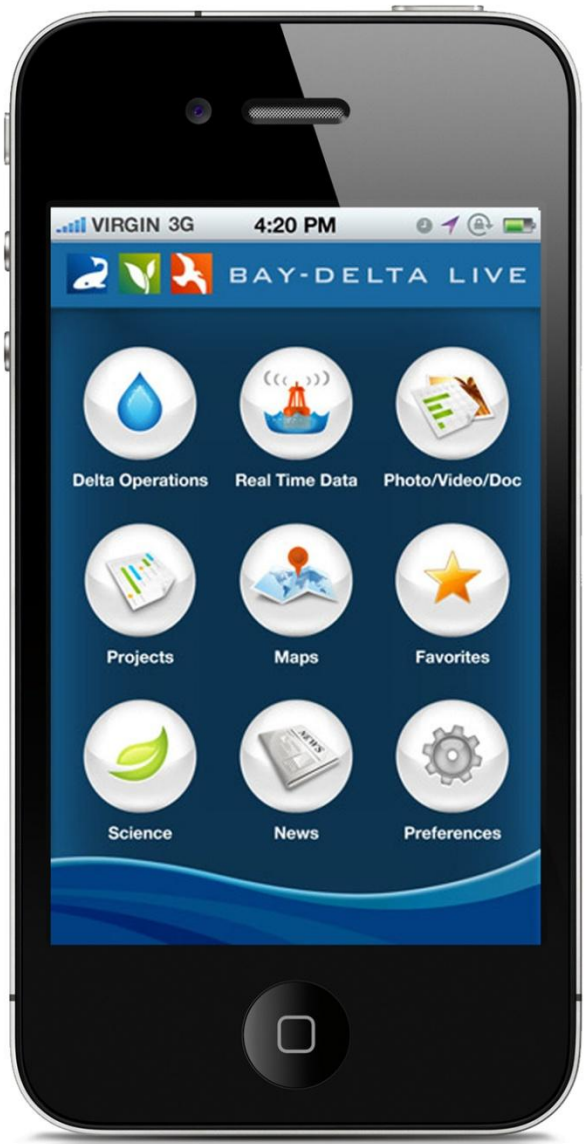
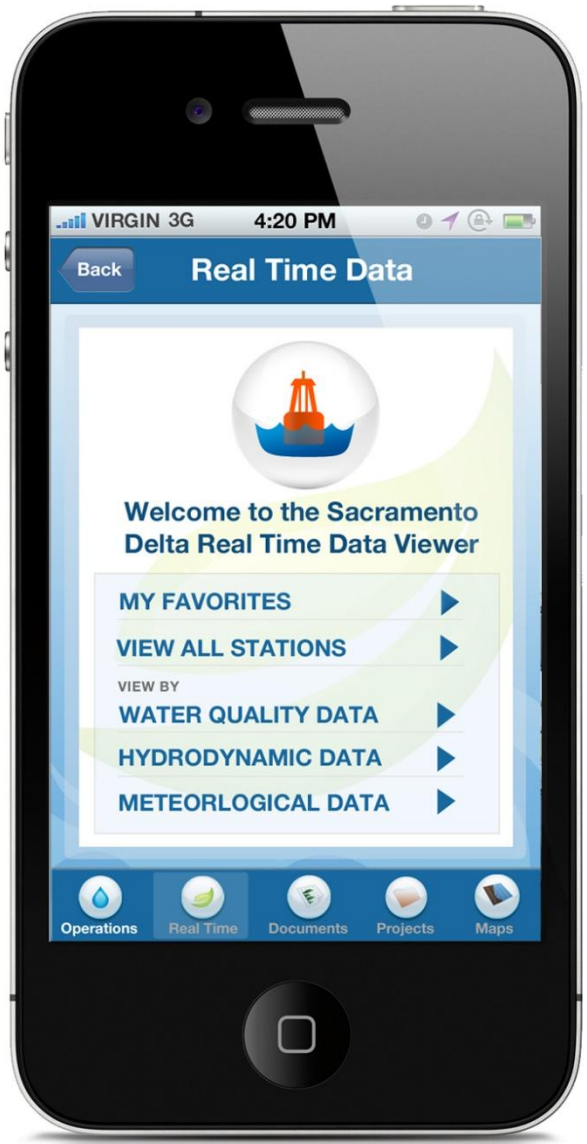
MAP
Birds Landing
Pittsburg
Hooper
Antioch
Oakley
Bethel Island
Knightsen
Brentwood
Discovery Bay
Byron
Clifton Court Forebay
Los Vaqueros Reservoir
Black Diamond Mines Regional Preserve
Mt Diablo State Park
Black Hawk Ridge
Blackhawk-Camino Tassajara
Lodi
Lincoln Village
Country Club
August
Stockton
Kenned
Taft Mosswood
Lathrop
Real-Time Data Interpolation

Mobile Apps


VIRGIN 3G
4:20 PM
BAY-DELTA LIVE
Delta Operations
Real Time Data
Photo/Video/Doc
Projects
Maps
Favorites
Science
News
Preferences


VIRGIN 3G
4:20 PM
Back
Real Time Data
Welcome to the Sacramento Delta Real Time Data Viewer
MY FAVORITES
VIEW ALL STATIONS
VIEW BY
WATER QUALITY DATA
HYDRODYNAMIC DATA
METEORLOGICAL DATA
Operations
Real Time
Documents
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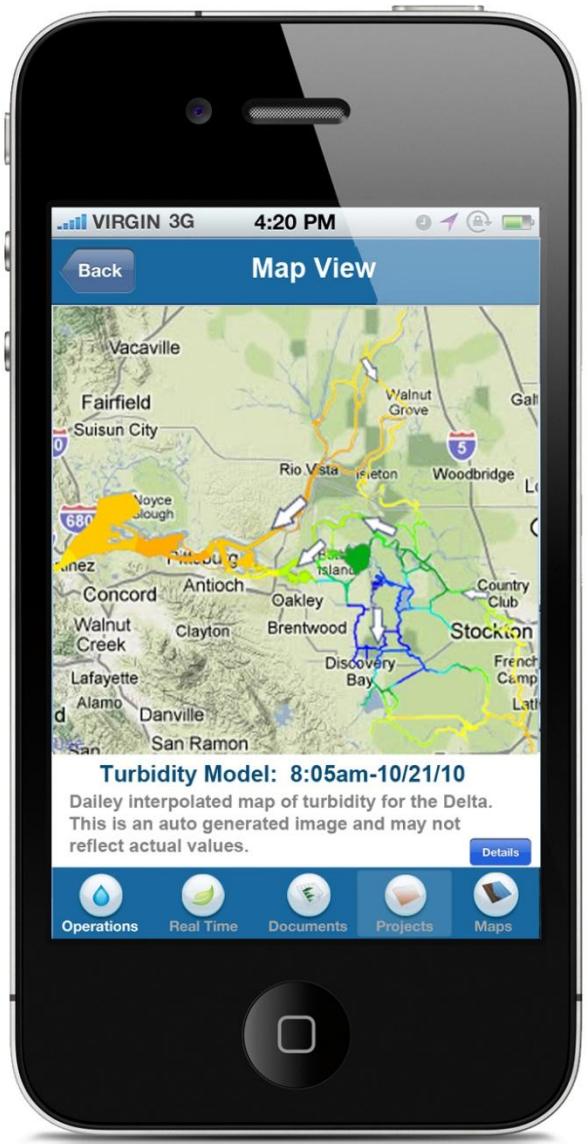
Maps


VIRGIN 3G
4:20 PM
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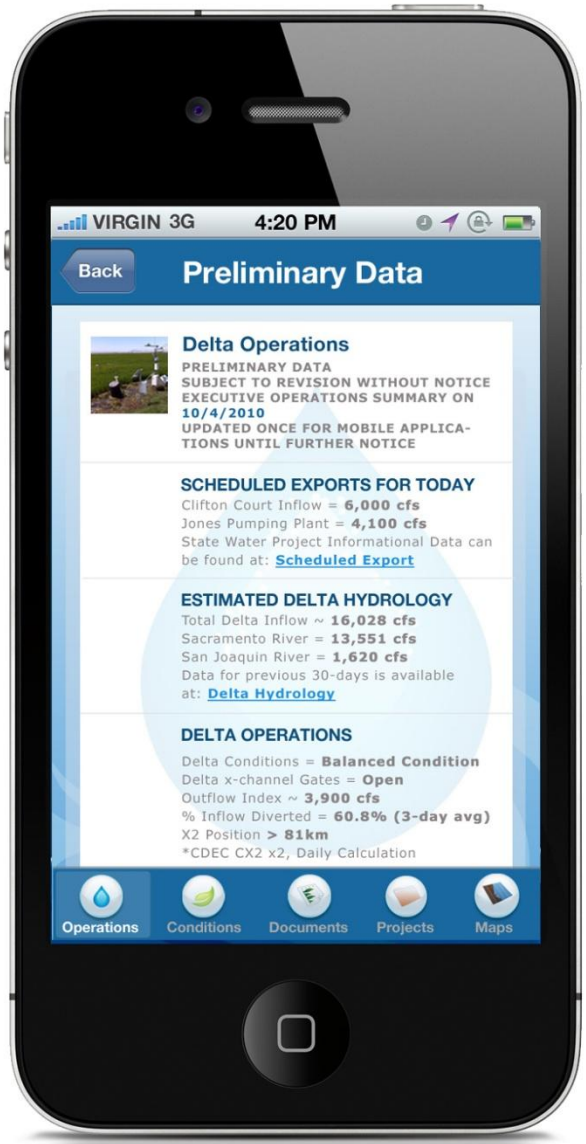
Map View
Vacaville
Fairfield
Suisun City
Walnut Grove
Woodbridge
Concord
Antioch
Oakley
Brentwood
Walnut Creek
Clayton
Stockton
Lafayette
Alamo
Danville
San Ramon
Discovery Bay
Turbidity Model: 8:05am-10/21/10
Dailey interpolated map of turbidity for the Delta. This is an auto generated image and may not reflect actual values.
Details
Operations
Real Time
Documents
Projects
Maps


VIRGIN 3G
4:20 PM
Back
Preliminary Data
Delta Operations
PRELIMINARY DATA
SUBJECT TO REVISION WITHOUT NOTICE
EXECUTIVE OPERATIONS SUMMARY ON
10/4/2010
UPDATED ONCE FOR MOBILE APPLICA-
TIONS UNTIL FURTHER NOTICE
SCHEDULED EXPORTS FOR TODAY
Clifton Court Inflow = 6,000 cfs
Jones Pumping Plant = 4,100 cfs
State Water Project Informational Data can
be found at: Scheduled Export
ESTIMATED DELTA HYDROLOGY
Total Delta Inflow ~ 16,028 cfs
Sacramento River = 13,551 cfs
San Joaquin River = 1,620 cfs
Data for previous 30-days is available
at: Delta Hydrology
DELTA OPERATIONS
Delta Conditions = Balanced Condition
Delta x-channel Gates = Open
Outflow Index ~ 3,900 cfs
% Inflow Diverted = 60.8% (3-day avg)
X2 Position > 81km
*CDEC CX2 x2, Daily Calculation
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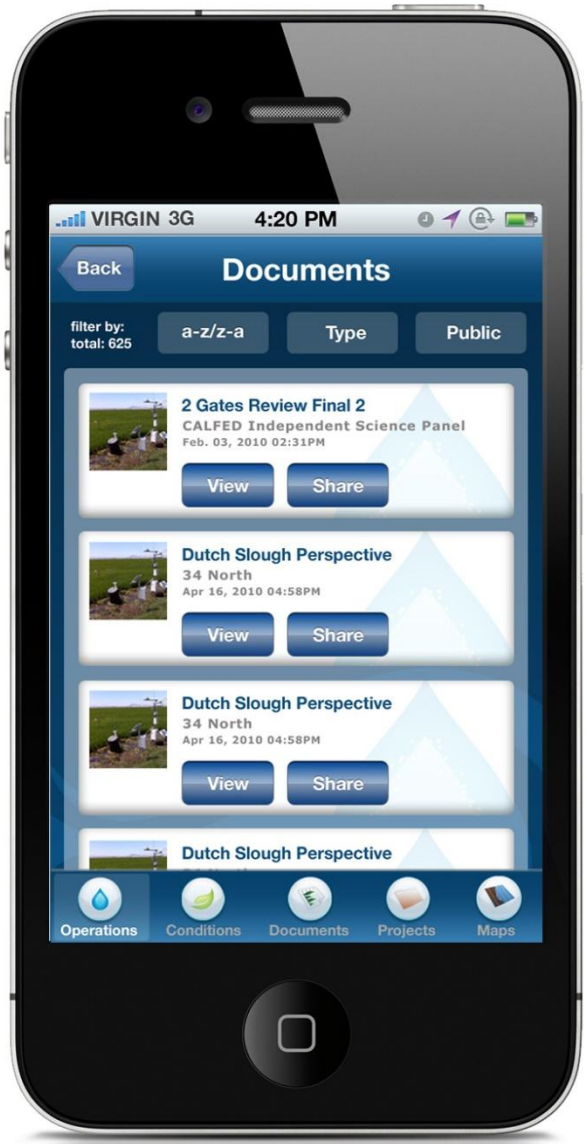
VIRGIN 3G
4:20 PM
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Documents
filter by:
total: 625
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Public
2 Gates Review Final 2
CALFED Independent Science Panel
Feb. 03, 2010 02:31PM
View
Share
Dutch Slough Perspective
34 North
Apr 16, 2010 04:58PM
View
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Dutch Slough Perspective
34 North
Apr 16, 2010 04:58PM
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Dutch Slough Perspective
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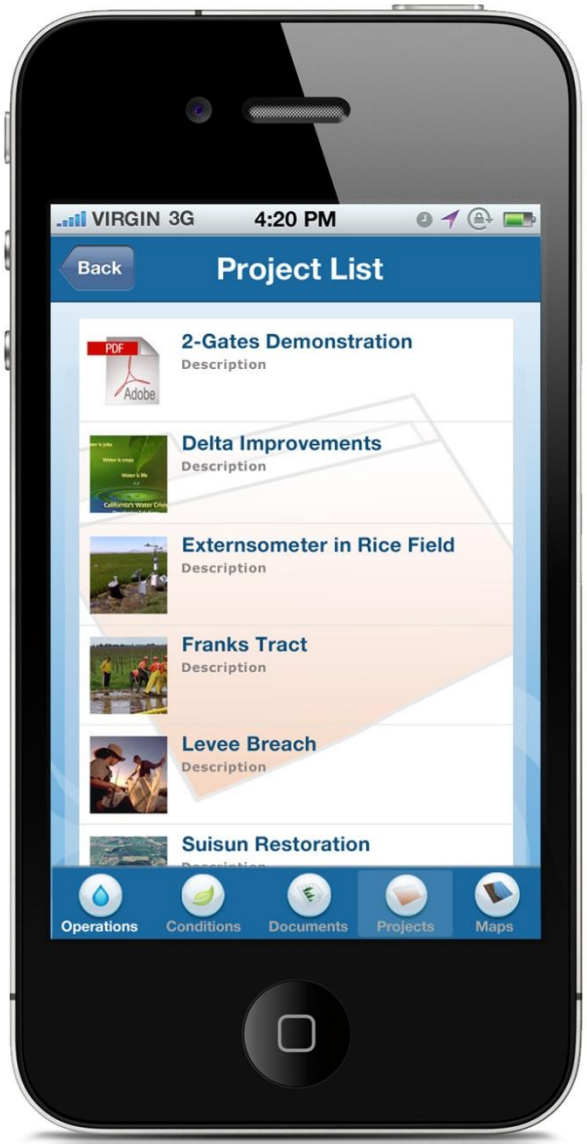
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