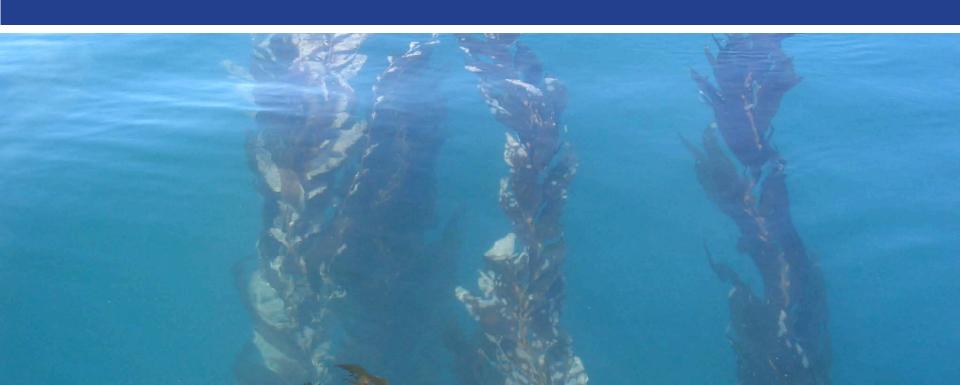


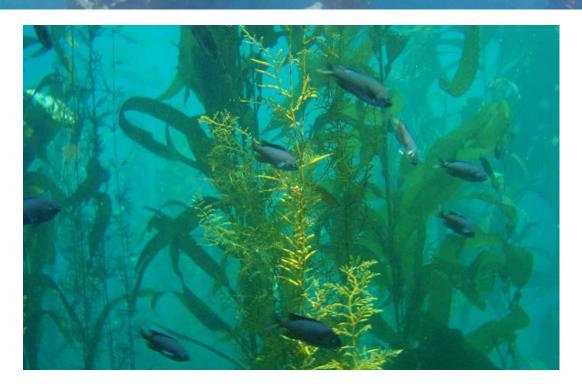


# Evolving MPA Monitoring: Technology solutions to inform decisions

Data Management Workgroup, Water Quality Council, 22 Nov 2011

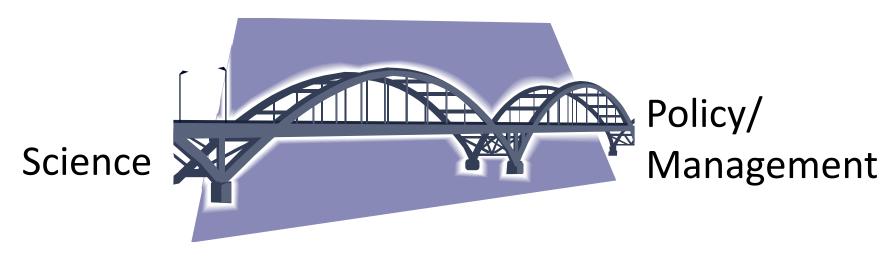


# **Our Vision**



Objective, reliable and timely monitoring information is used in management decisions for improved stewardship of California MPAs

# A boundary role



... new science approaches

... new communications tools

...a technology solution?

# ... a technology solution

An online database? A data portal? An information? management system? A website?

...An online community platform to steward, share and use MPA monitoring information

# **User Needs Assessment**

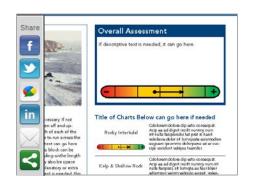


# An online community platform

# OceanSpaces.org

An online space to...



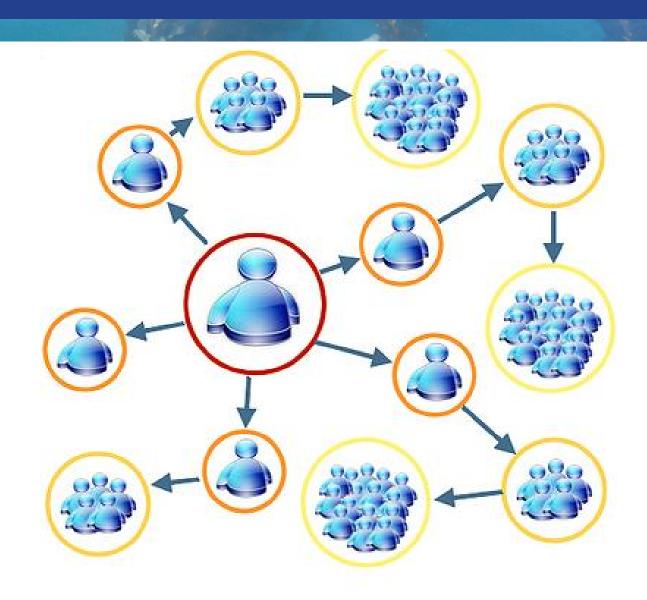




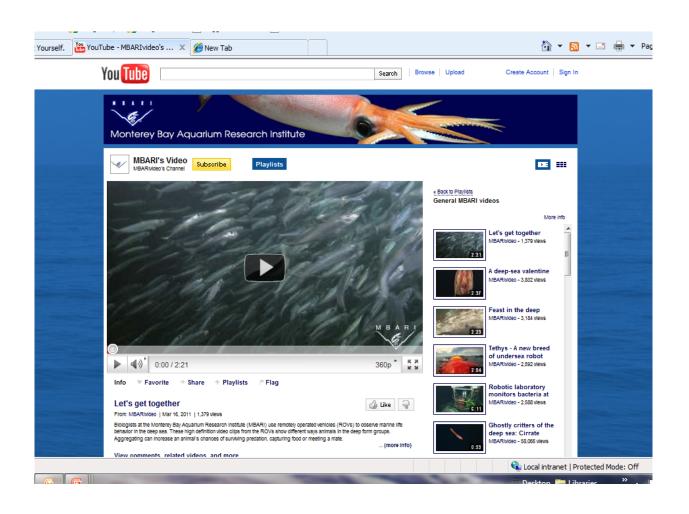
learn share

connect

# Starting with a flexible foundation



# Connect...identify communities



Search the hub

ABOUT CONNECT LEARN EXPLORE DATA

	-	1	
- 1			т

rst name: *			Last name: *	
oload photo	w.	Browse		
filiation:			Job title:	
reet:			City:	
ate:	Zipcode:		Country:	
ebsite:				

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

DATA

DASHBOARD

Search OceanSpaces

#### About Tony Hale

ABOUT

Dr. Tony Hale, Information Systems Officer, is an enterprise technologist with a doctoral degree in English literature, making him - among other things - a strong communicator of technology initiatives. Educated at University College Cork in Ireland, Tony received both his BA and PhD from UC Berkeley, while simultaneously honing his skills as an Oracle and Microsoft database programmer. Remaining in academia, Tony spent over seven years at Mills College in Oakland, where he led the college's information system's team and guided the institution through many complex technology projects including the creation of a business intelligence tool, the adoption of a database-driven communication system, and the launch of a community portal. Tony pioneered a movement for deeper institutional engagement with technology, promoting data-informed decision-making in his semiannual address called "The State of Information Technology." Later, in pursuit of new challenges, he assumed the directorship of the Enterprise Services team at the Peralta Community College District.

Having started in July 2011 with the Monitoring Enterprise team, Tony is charged with advancing the design and development of OceanSpaces, the online community platform for MPA Monitoring interests. He is enthusiastic about contributing his skills to such a talented and important organization.

#### ▼ Tony Hale's Connections











South Coast Baseline Monitoring Group

#### ▼ Tony Hale's Data Uploads



### Tony Hale Information Systems Officer

Affiliation California Ocean Science Trust

Location Oakland, CA

Interests/Expertise New technologies, music composition, and hiking.

Website http://monitoringenterprise.org

Joined November 2011

#### Tony Hale Follows







CONNECT

HUD LOGO

LEARN

**EXPLORE** 

DATA

DASHBOARD

### About MPA Monitoring Enterprise

Working at the boundary between science and management, the MPA Monitoring Enterprise provides a unique combination of science and policy expertise to develop and test a realistic way to take the pulse of ocean ecosystems and evaluate the performance of the emerging statewide network of MPAs.

The MPA Monitoring Enterprise does not advocate for or against the implementation of MPAs, but rather ensures that policymakers, resource managers, and the public have impartial, timely and useful information to support MPA management decisions.

#### MPA Monitoring Enterprise Connections



Rocky Intertidal **Ecosystems** 



Estuaries and Wetlands



Kelp and Shallow Rock



Soft-Bottom Intertidal and Beach **Ecosystems** 



Soft-Bottom Subtidal (0-100m) **Ecosystems** 



Deep **Ecosystems** (>100m) and Canyons



Consumptive Uses



Non-Consump tive Uses



Nearshore Pelagic **Ecosystems** 

# MPA Monitoring Enterprise Data Uploads



MLPA CBS

by Tony Hale from MPA Monitoring Enterprise. 23 sec ago

Download package (0)



Affiliation MPA Monitoring Enterprise

Industry

Interests/Expertise

Website(s)

Joined December 2011

Follow -

Message admin(s)

Edit | Member list | Add member(s) Email all members | Create Event

#### Members



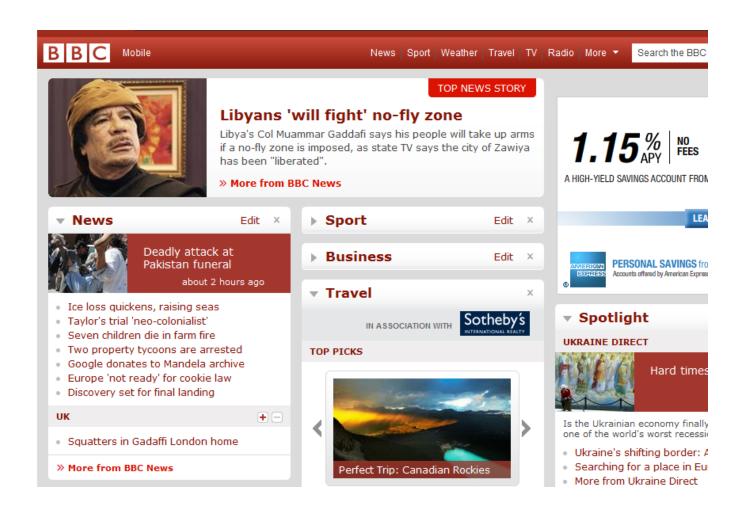
#### News & Events

#### Working toward web site release

1 Dec 2011 - 2:30pm Main Office See map: Google Maps



# Connect...customize user experience

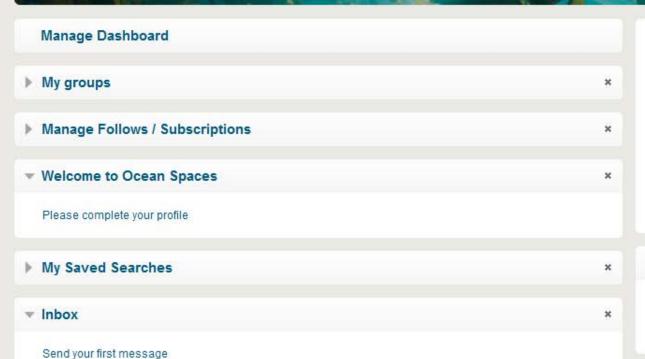


**EXPLORE** 

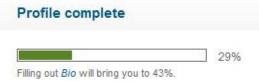
DATA

DASHBOARD

Search the hub









Tools

















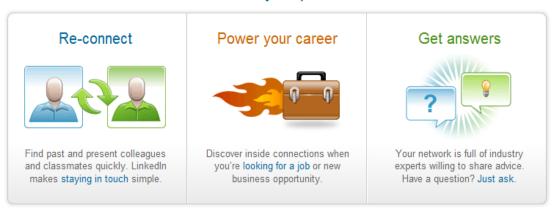


# Connect...identify common interests



Home What is LinkedIn? Join Today Sign In

### Get the most from your professional network



Ready to get started?

Join now

Help Center | About | Blog | Careers | Advertising | Recruiting Solutions | Tools | Mobile | Developers | Language

LinkedIn Updates | LinkedIn Answers | LinkedIn Jobs | Jobs Directory | Company Directory | Groups Directory | Service Provider Directory | Title Director LinkedIn Corporation © 2011 | User Agreement | Privacy Policy | Copyright Policy

### Rocky Intertidal Ecosystems

### MPA Monitoring Metrics

MPA monitoring metrics were developed for each MLPA region to track trends in the status or condition of ecosystems. Click on the thumbnails to view the current monitoring metrics from each region's monitoring plan. Monitoring plans are living documents and these metrics will be updated as we learn more about these ecosystems and the effects of MPAs.



North Central

Coast Metrics

South Coast

Metrics



Metrics







South Coast South Coast Metrics

South Coast Metrics

South Coast Metrics

See all

### MPA Monitoring in the Rocky Intertidal Ecosystems

Click on the thumbnails to learn more about the groups monitoring rocky intertidal ecosystems.



California Ocean

MPA Monitoring

### **Follow This Topic**

#### Additional Resources

Oceanography Lecture Monitoring Life

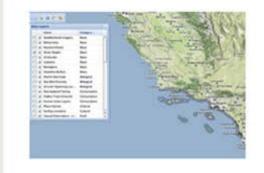
Learn More About Monitoring

### **Explore Other Ecosystems**

Kelp and Shallow Rock

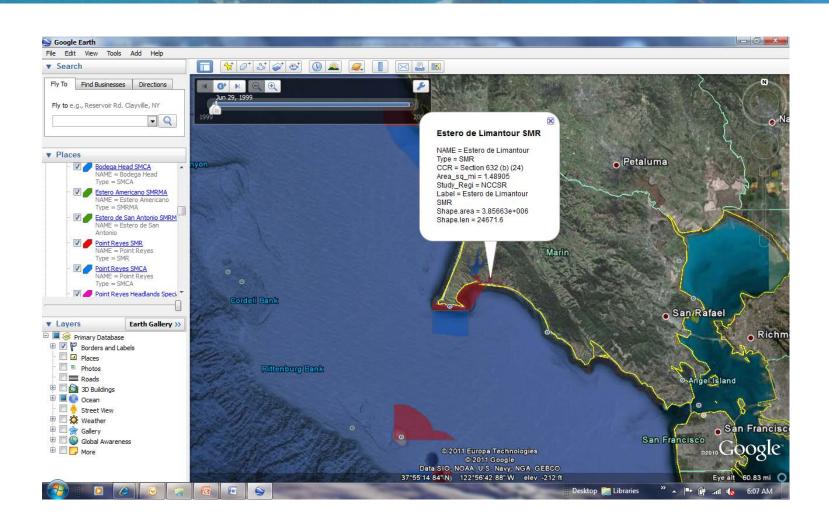
**Browse Other Topic Pages** 

### Explore the Rocky Intertidal



Go to map

# Learn...about ongoing monitoring

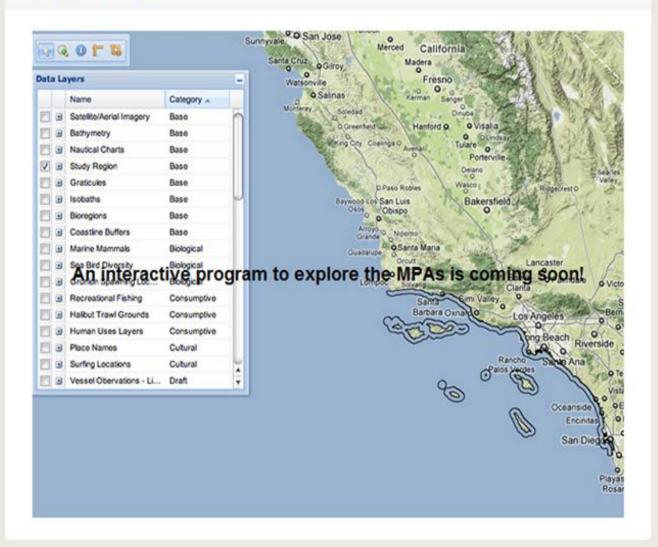


Search the hub

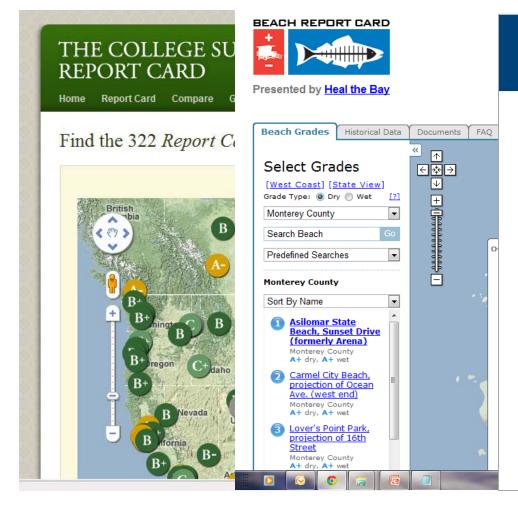
### Explore the MPA's

Explore the Map

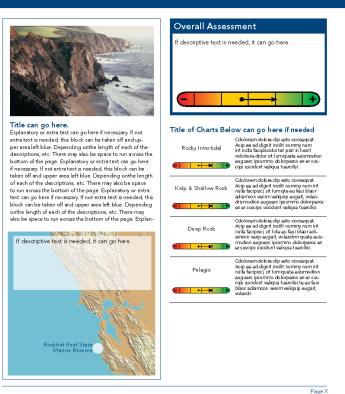
### Explore the MPAs



# Learn ...about MPA monitoring results



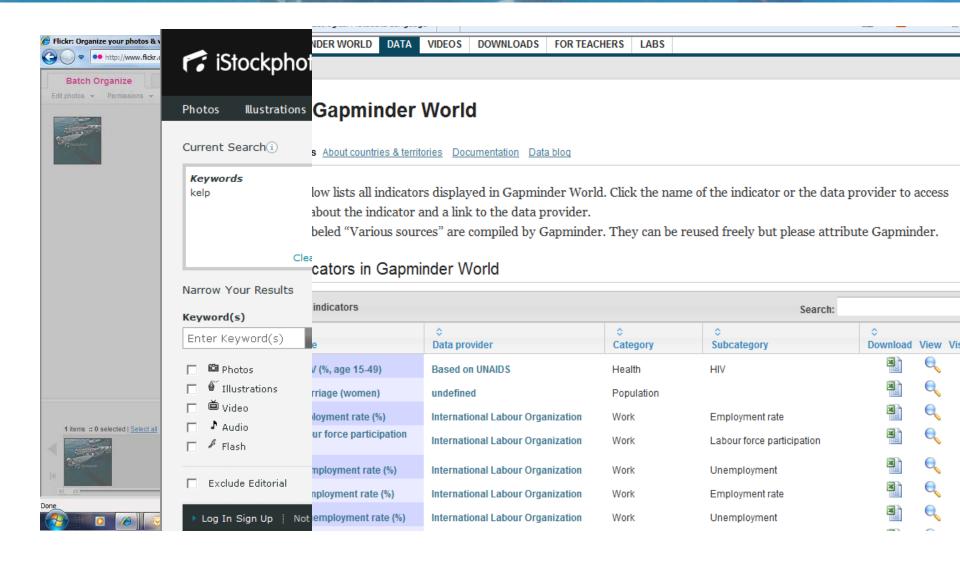
### Rockfish Reef State Marine Reserve

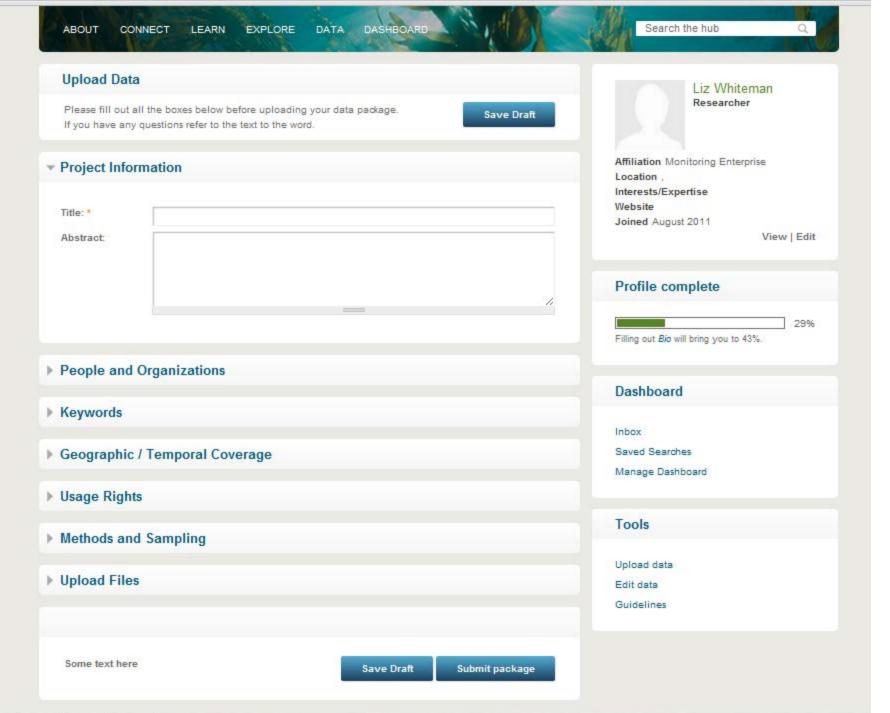


# Share...reports, results etc



# Share...meaningful data





### Search Data

Q

#### Our Data

Some text here about the Data. MPA monitoring metrics were developer for each MLPA region to track trends in the status or condition of ecosystems. Clock on the thumbnails to view the current monitoring metrics from each region's monitoring plan. Monitoring plans are living documents and these metrics will be updated as we learn more about these ecosystems and the effects of MPAs.

- > Transparency
- > Accessibility
- > Collaboration

Learn More About Our Data

226 x 165

### Latest Upload



Thursday

Uploaded by Alex Farnsworth from AMPR 8 weeks ago

Subscribe | Download package



twenty-third

Uploaded by Randy Smith from AMPR, PRTO 9 weeks ago Subscribe | Download package



#### new test

Uploaded by Randy Smith from PRTO, Transit Fairland 13 weeks ago Subscribe | Download package

PRTO, Transit Fairland

**ABOUT** 

CONNECT

LEARN

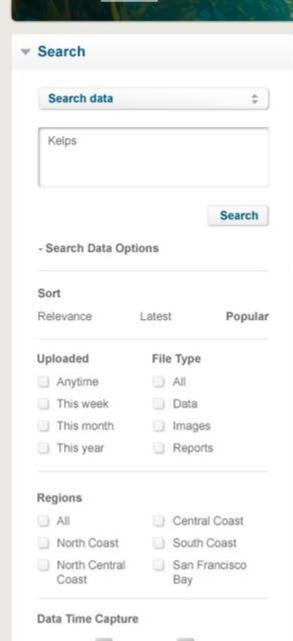
EXPLORE

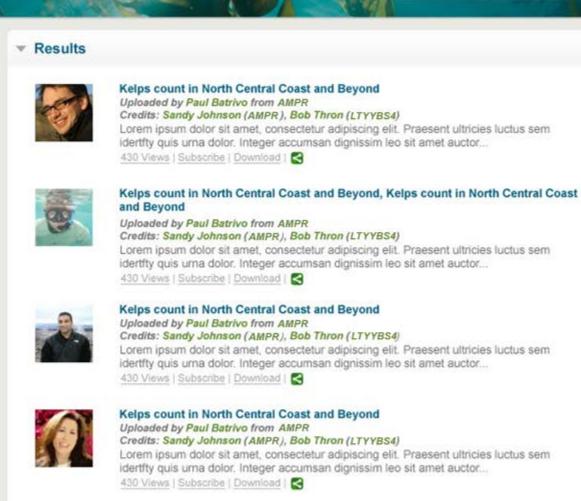
DATA

DASHBOARD

Search the hub

Q





LEARN

**EXPLORE** 

DATA

DASHBOARD

Search the hub

## Search Search data Kelps Search - Search Data Options Sort Popular Relevance Latest File Type Uploaded □ All Anytime This week Data This month Images Reports This year Regions IIA II Central Coast North Coast South Coast North Central San Francisco

### Results



#### Kelps count in North Central Coast and Beyond

Uploaded by Paul Batrivo from AMPRB

Credits: Sandy Johnson (AMPRB), Bob Thron (PRAMBJ)

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent ultricies luctus sem idertfty quis urna dolor. Integer accumsan dignissim leo sit amet auctor...

430 Views | Subscribe | Download | <

### PROJECT FILES



Big fish with a fisherman next to it in cape cod.

3,2mb

Ocean\_north...ption.doc

Ocean\_bigfish.jpg

Lorem ipsum dolor sit amet, consectetur adipiscing elit and fishmen tryuh...

55.5kb

Preview

Preview

Sealion\_under.xls

Ocean horizon.

55.13kb

(Files must be downloaded as a package)

**Download Package** 

#### PROJECT DESCRIPTION

Title: Kelps count in North Central Coast and beyond

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent ultricies luctus sem identity quis uma dolor. Integer accumsan dignissim leo sit amet auctor. Vestibulum ut elit quis nunc convallis volup nec nec nibh. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent ultricies luctus sem id elementum. Donec quis urna dolor. Integer accumsan dignissim leo sit amet auctor. Vestibulum ut elit quis nunc convallis volutpat nec nec nibh.

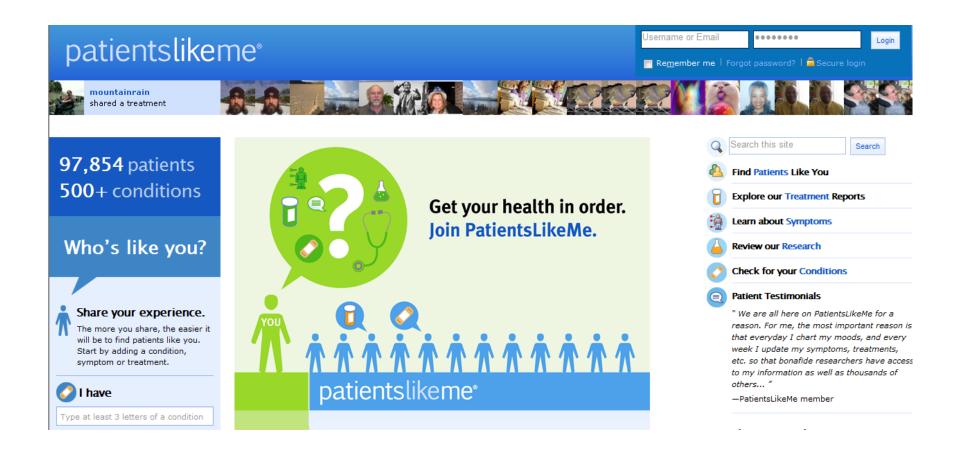
#### People and Organization:

Credits: Sandy Johnson (AMPRB), Bob Thron (PRAMBJ)

Contact: Sandy Johnson (AMPRB)

#### Geographic and Temporal Coverage:

# Collaborate...build consensus



# Next steps - building a community

