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DataMARES: Connecting users with coastal and marine ecosystem´s data in the Gulf of California and Pacific Ocean, Mexico

Marcia Moreno-Báez, Vicente Obregón-Noriega, Octavio Aburto-Oropeza

Scripps Institution of Oceanography, University of California San Diego

Gulf of California Marine Program, Center for Marine Biodiversity and Conservation
Scripps Institution of Oceanography

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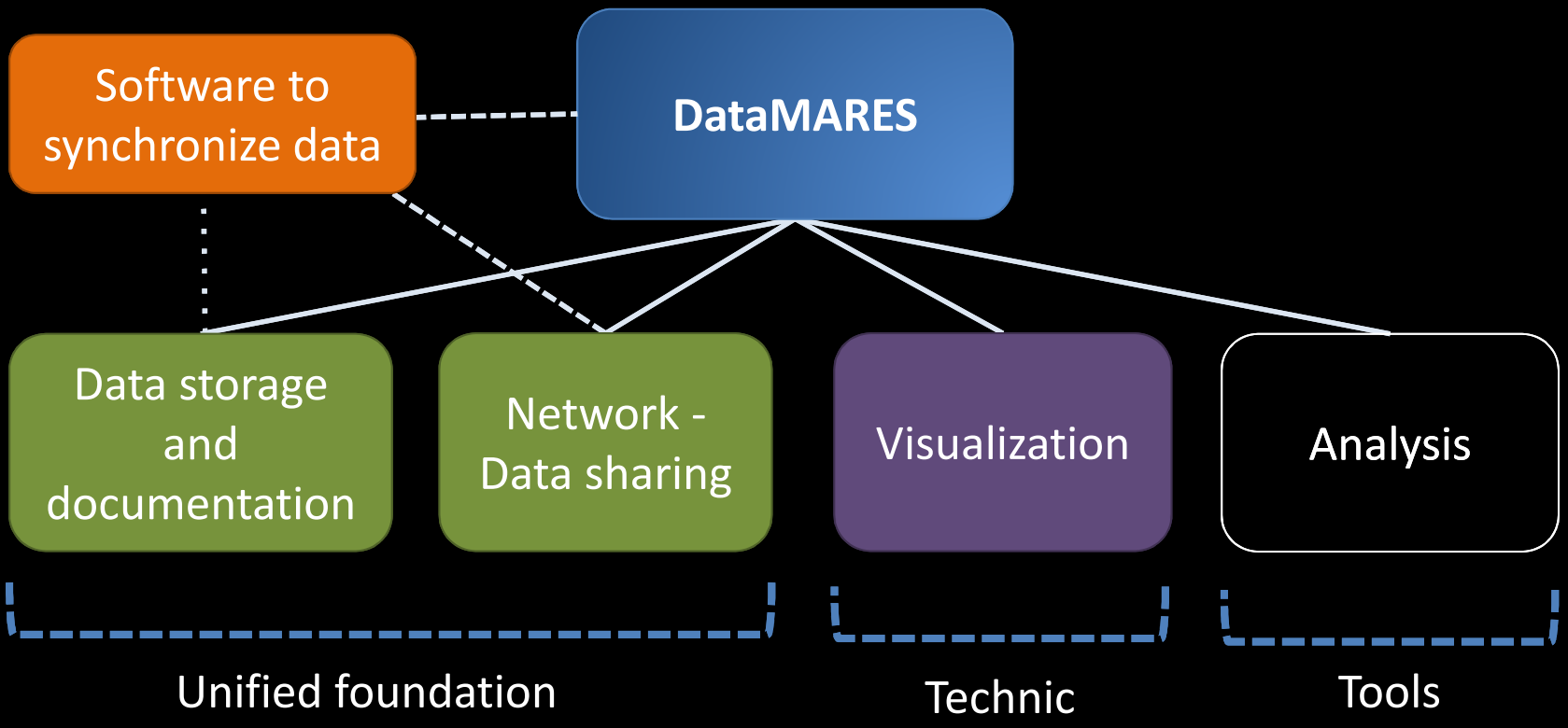

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/Metadata

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Marcia Moreno-Báez

The critical responsibility for our generation is to help provide the direction and the support for those generations who come behind. Hence we seek to communicate better our science.

Metadata Archives Queries Themes Maps Bio

Metadata

New metadata

Name	Modification Date
ProMonitor - Rocky Reef and Coastal Zones Monitoring Program by Administrator View Download	2013-09-09 16:17:54
Trackers Upper Gulf 2009-2013 by Victoria Jimenez Esquivel View Download	2013-06-05 16:04:30

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mmorenobaez@ucsd.edu
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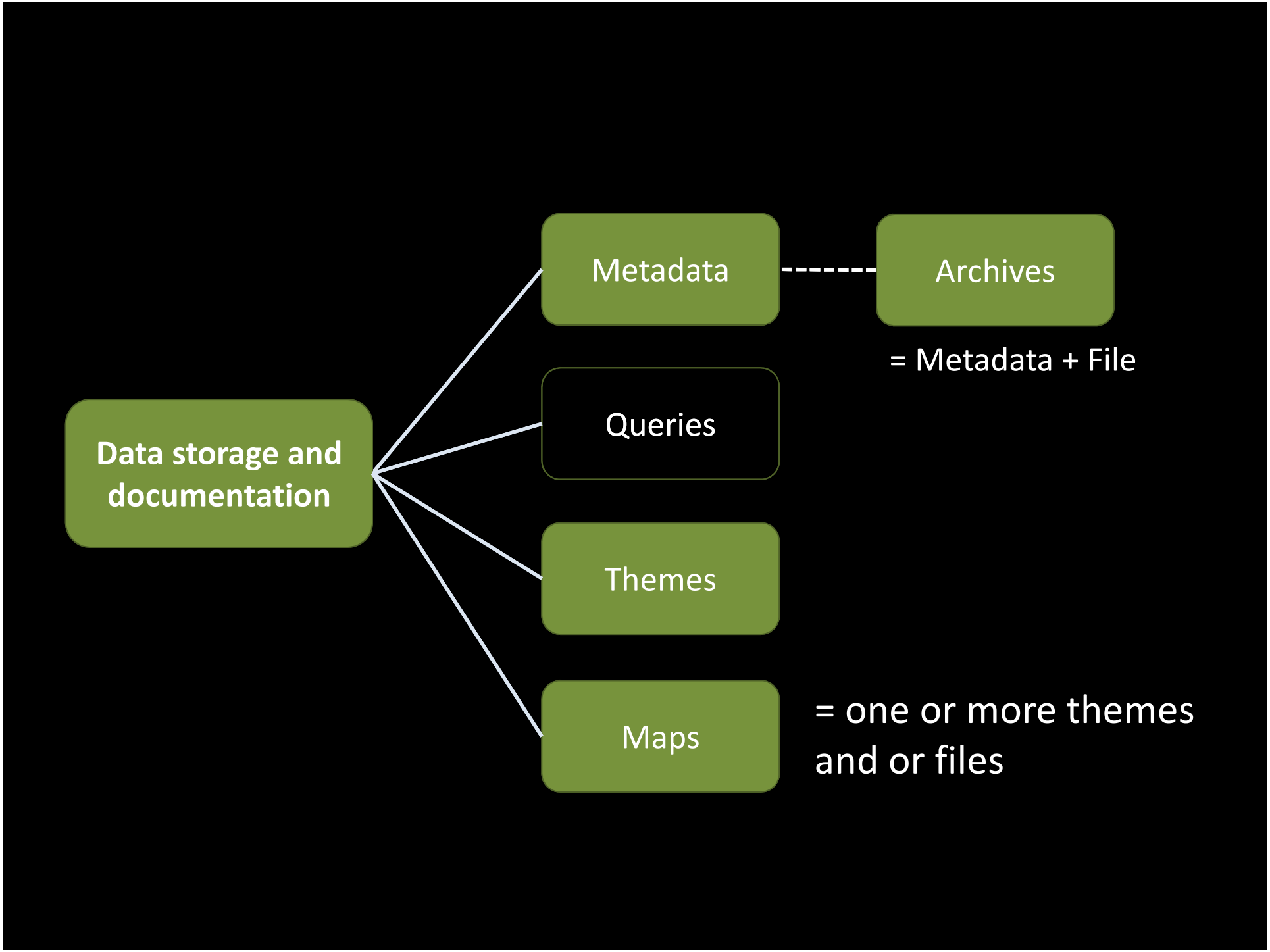
Skype

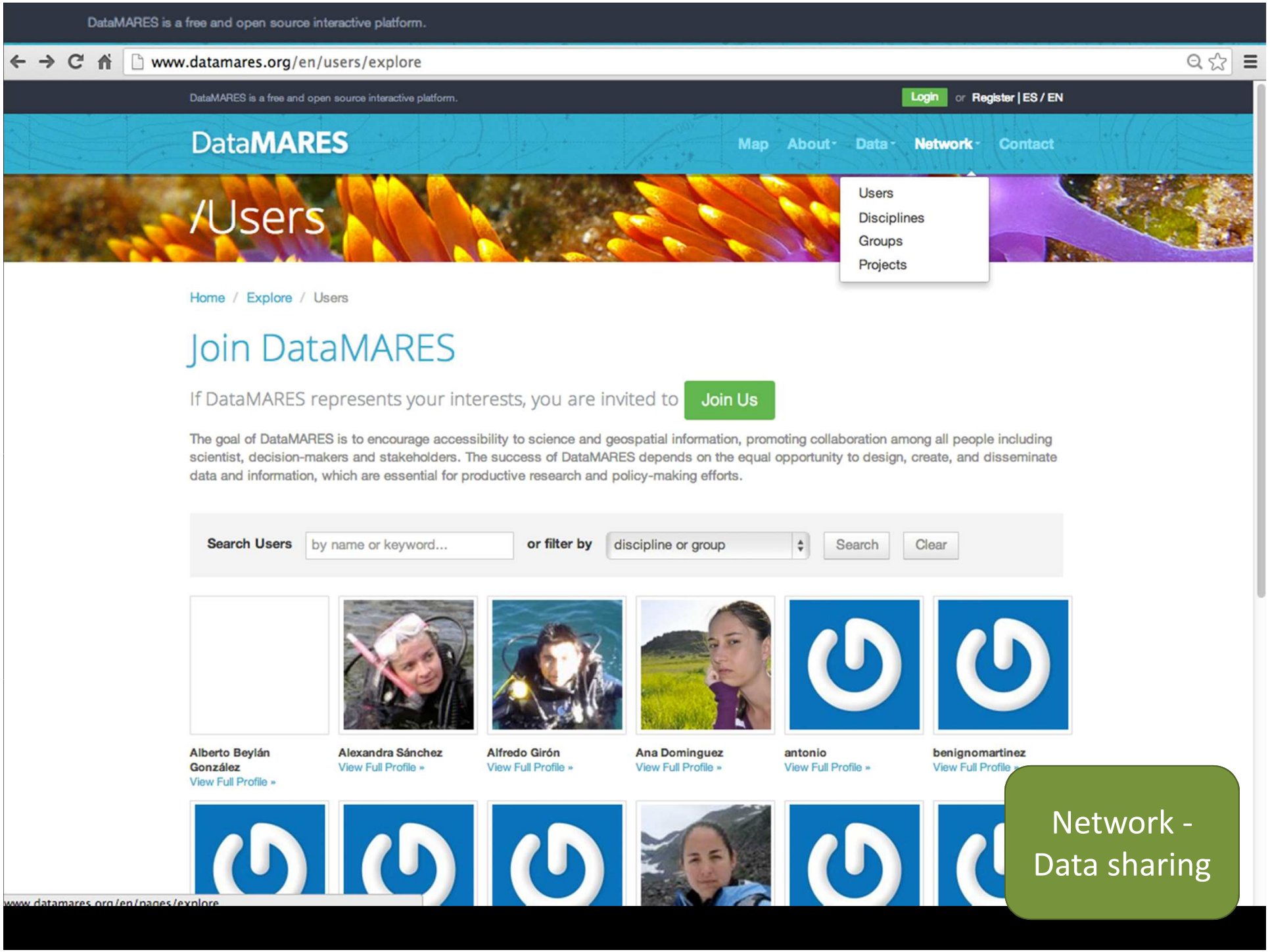
Disciplines

Natural Resource Management
Conservation
Geography
Data Management

Website

http://bit.ly/11aemMl


Data storage and documentation
Metadata
Archives
= Metadata + File
Queries
Themes
Maps
= one or more themes and or files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The goal of DataMARES is to encourage accessibility to science and geospatial information, promoting collaboration among all people including scientist, decision-makers and stakeholders. The success of DataMARES depends on the equal opportunity to design, create, and disseminate data and information, which are essential for productive research and policy-making efforts.
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Network - Data sharing

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Data Sharing Network

USER to Public

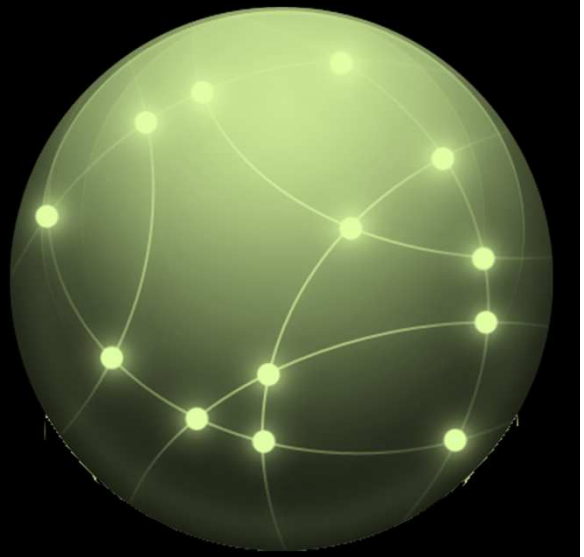
Information will be available to anyone

User to User

Information will be shared to other user

User to Group

Information will be shared to a group or a project



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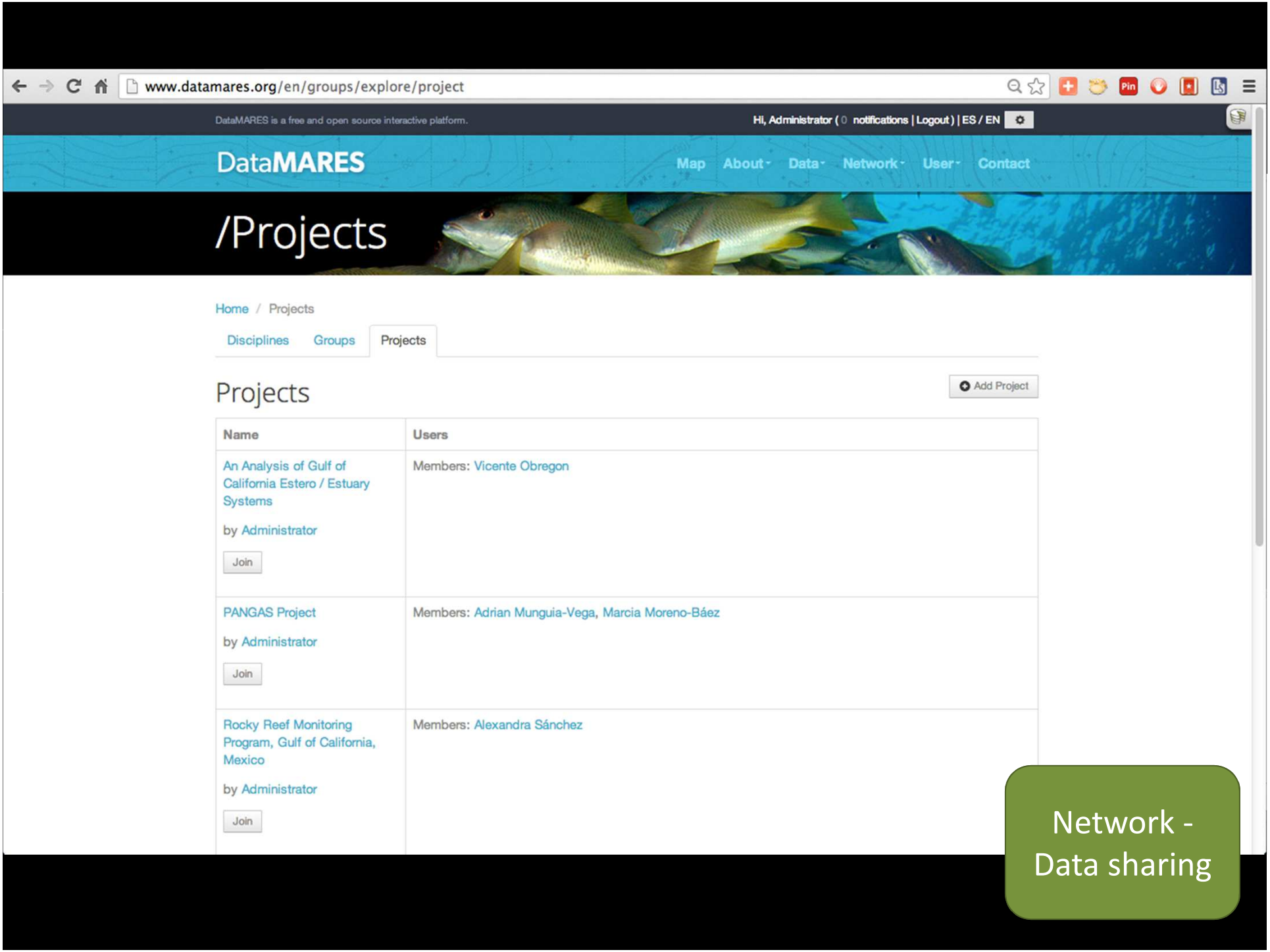
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by Administrator
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PANGAS Project
by Administrator
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Members: Adrian Munguia-Vega, Marcia Moreno-Báez
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Members: Alexandra Sánchez
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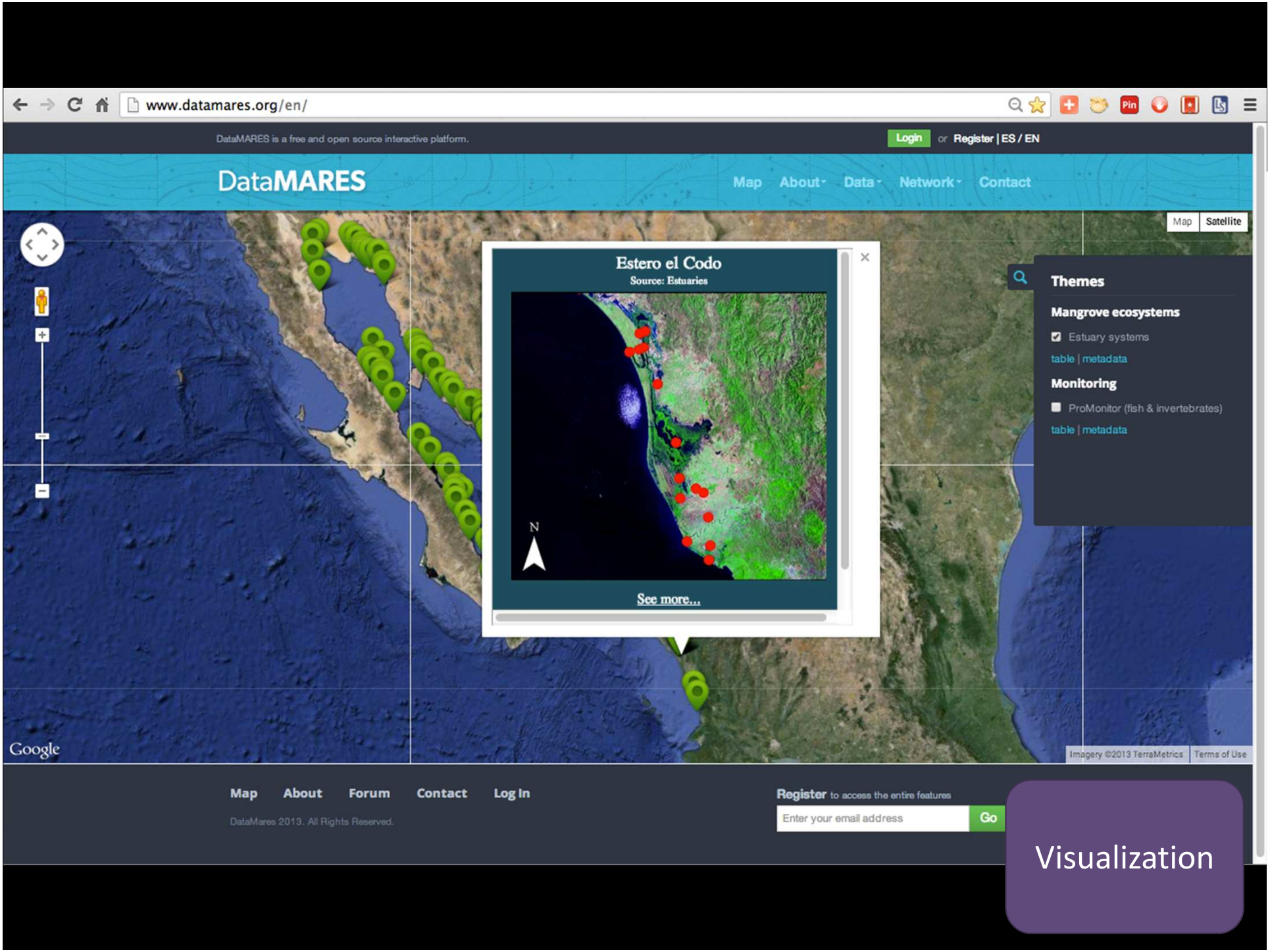
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Estuary systems
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Monitoring
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Estero Agua Grande, Estero el Maiz, Estero Rueda del Rio, Estero Teacapan, Estero Auta, Estero Toluca, Estero Grande, Estero Mez

GULF OF CALIFORNIA ESTUARIES / ESTEROS WORKSHOP

Estuary Name(s): Estero Agua Grande, Estero el Maiz, Estero Rueda del Rio, Estero Teacapan, Estero /

Estuary System: Teacapan-Agua Brava-Marismas Nacionales

Code: ESR4015 ☑ Included in digital GIS database?

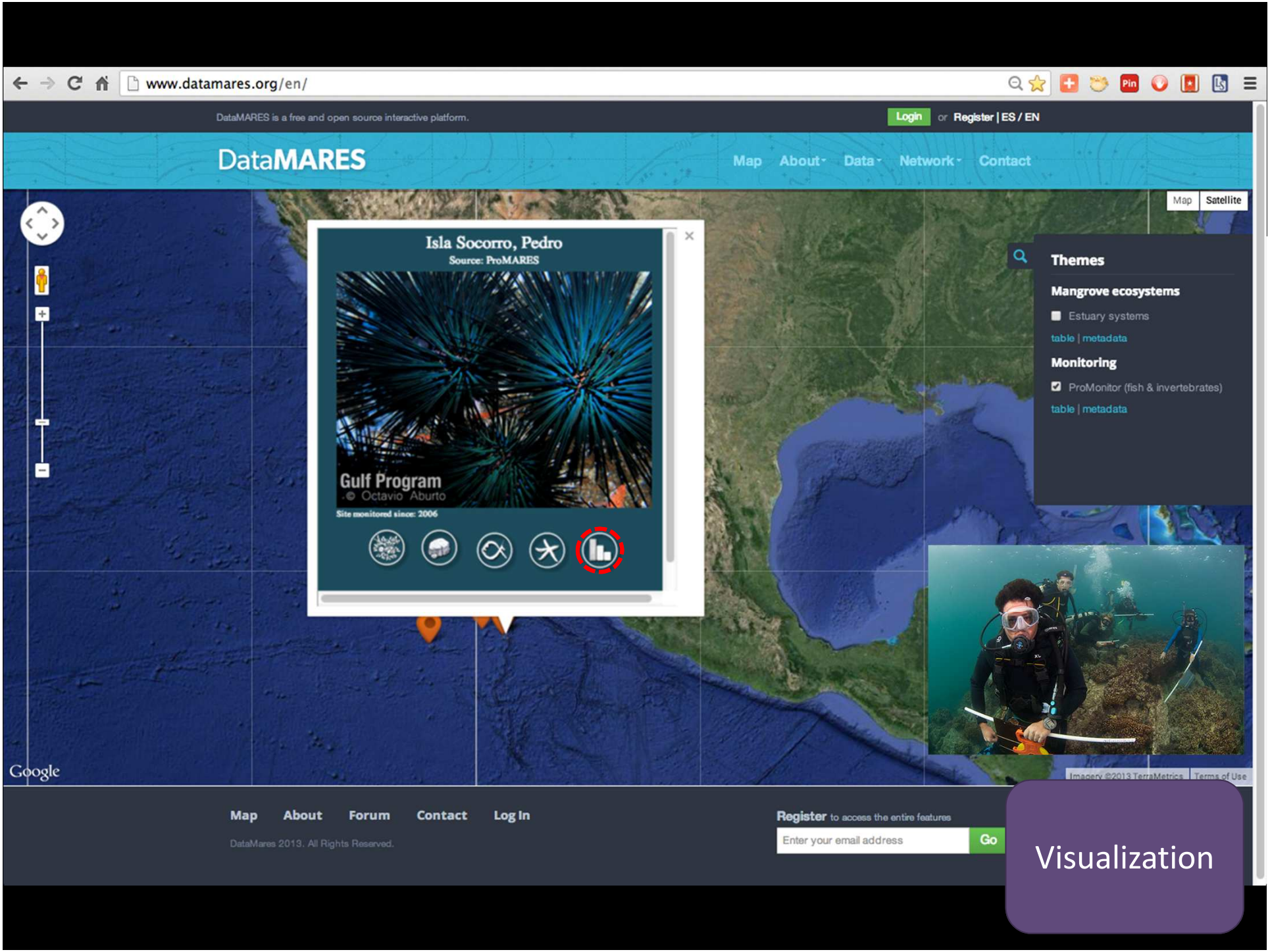
Region: 1 2 3 4

Image

Photo

UNDEFINED

Visualization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Isla Socorro, Pedro
Source: ProMARES
Gulf Program
© Octavio Aburto
Site monitored since: 2006
Themes
Mangrove ecosystems
Estuary systems
table | metadata
Monitoring
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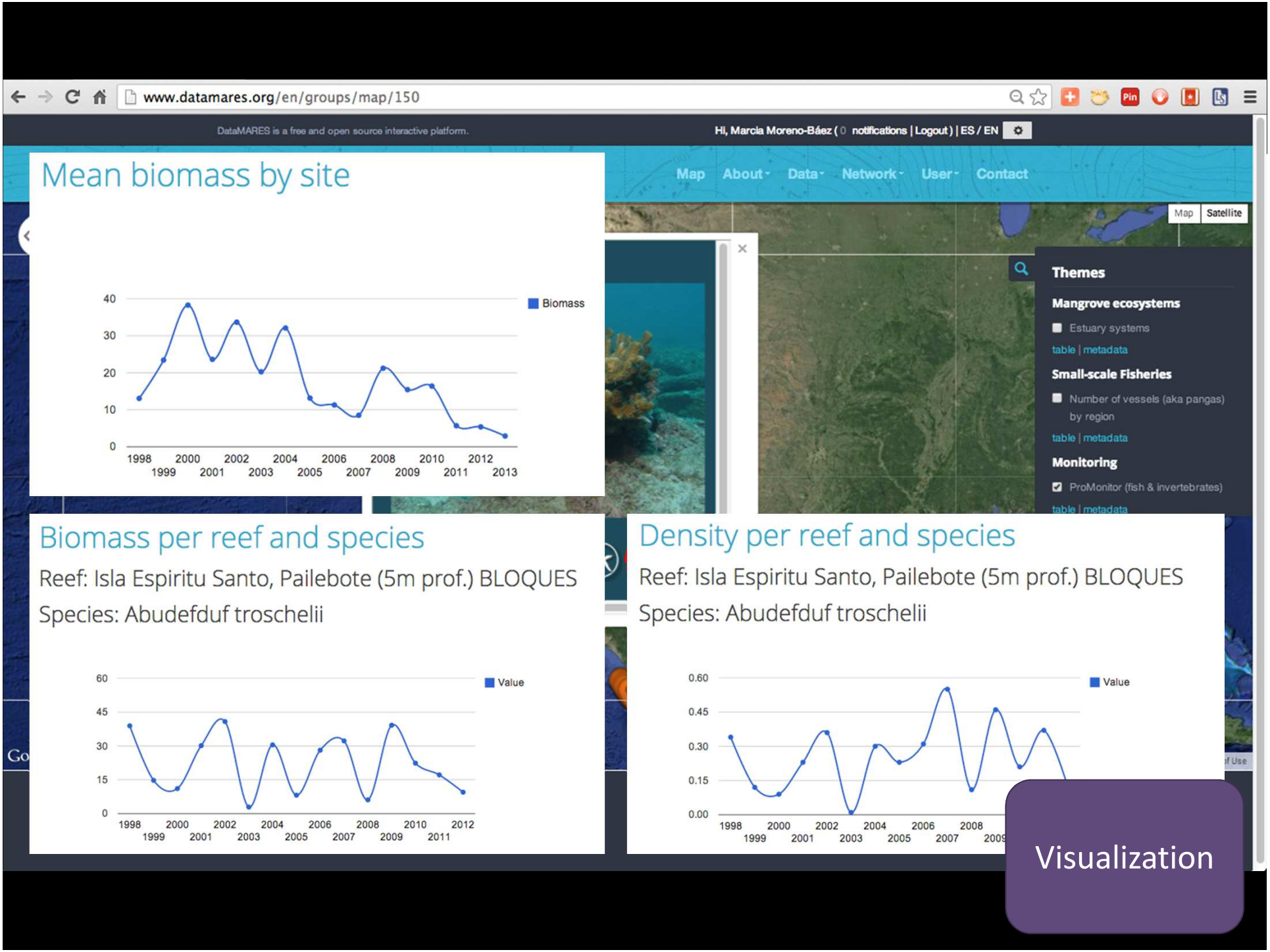
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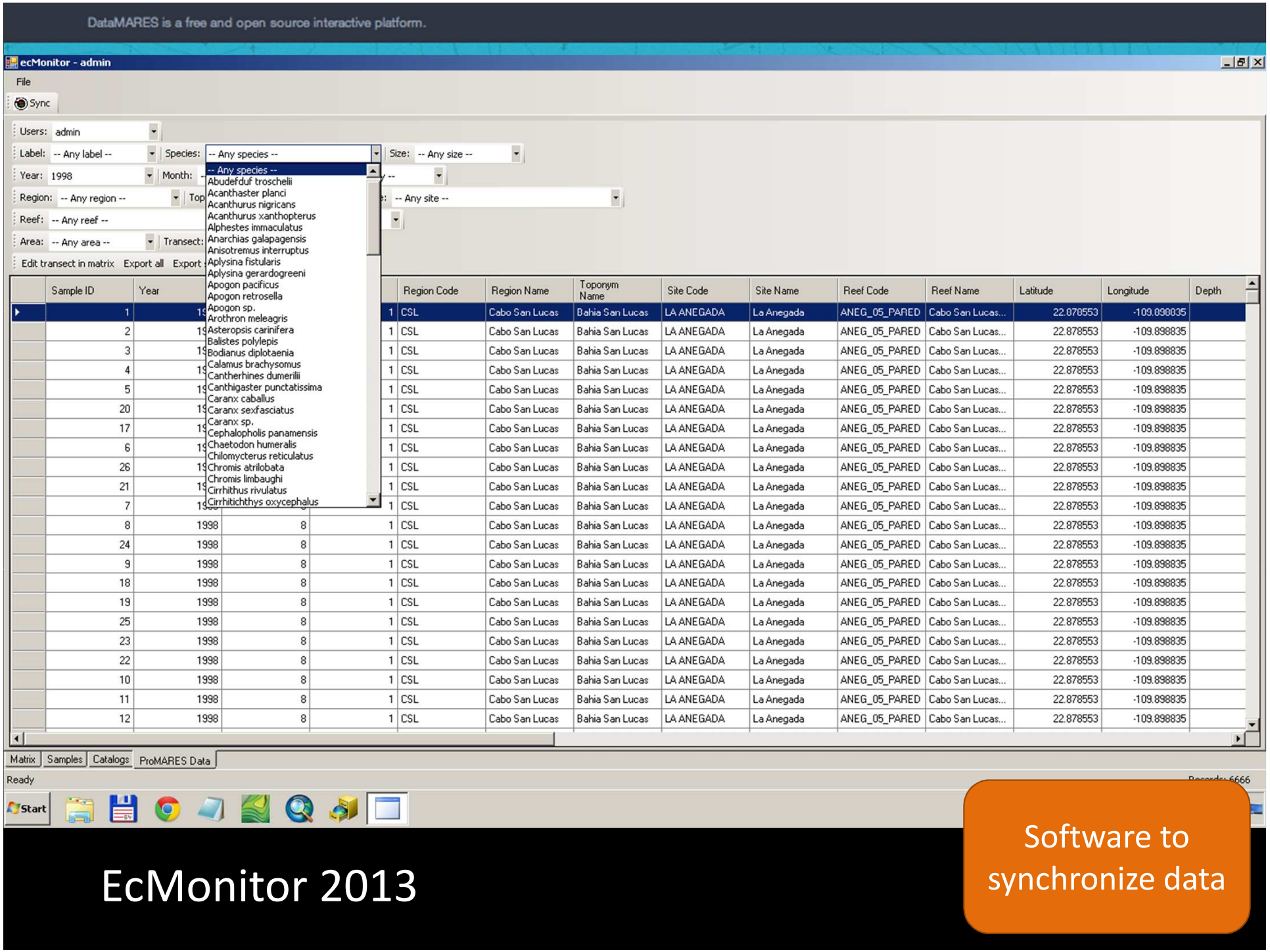
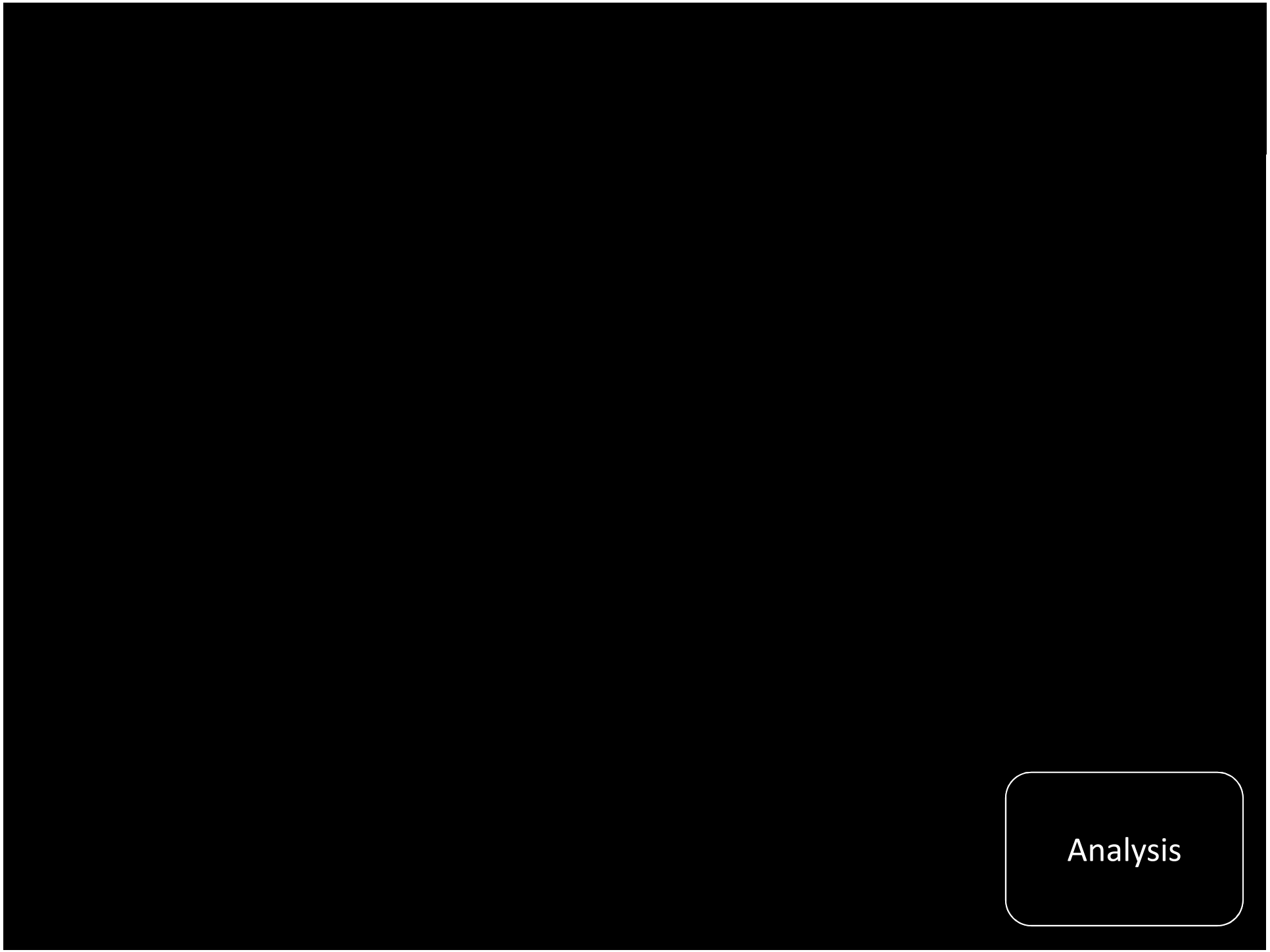
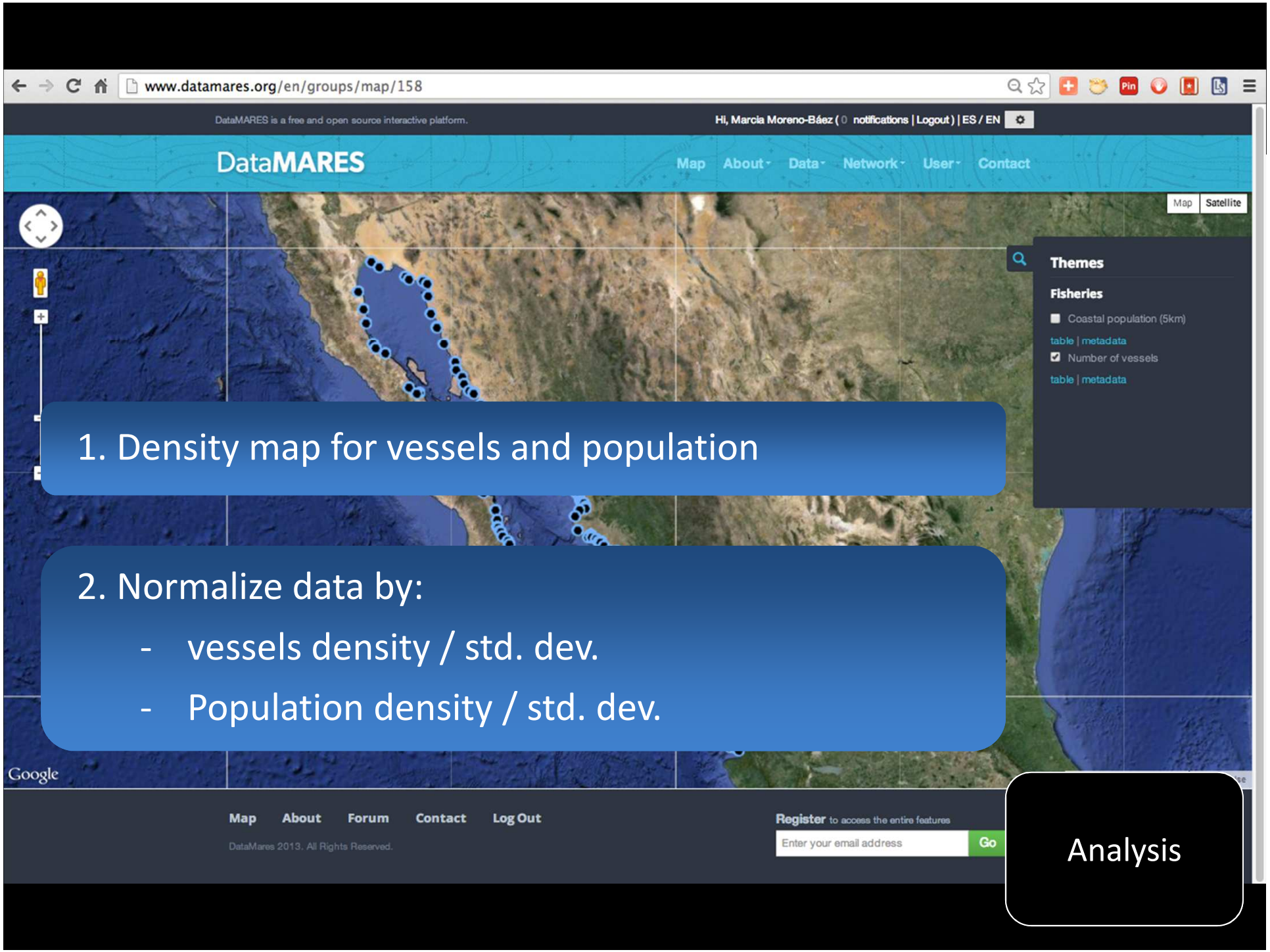
Mean biomass by site
Biomass
40
30
20
10
0
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
Map
Satellite
Themes
Mangrove ecosystems
Estuary systems
table | metadata
Small-scale Fisheries
Number of vessels (aka pangas) by region
table | metadata
Monitoring
ProMonitor (fish & invertebrates)
table | metadata
Biomass per reef and species
Reef: Isla Espiritu Santo, Pailebote (5m prof.) BLOQUES
Species: Abudefduf troschelii
Value
60
45
30
15
0
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012
Density per reef and species
Reef: Isla Espiritu Santo, Pailebote (5m prof.) BLOQUES
Species: Abudefduf troschelii
Value
0.60
0.45
0.30
0.15
0.00
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008
Visualization



EcMonitor 2013

Software to synchronize data


Analysis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Fisheries
Coastal population (5km)
table | metadata
Number of vessels
table | metadata
1. Density map for vessels and population
2. Normalize data by:
- vessels density / std. dev.
- Population density / std. dev.
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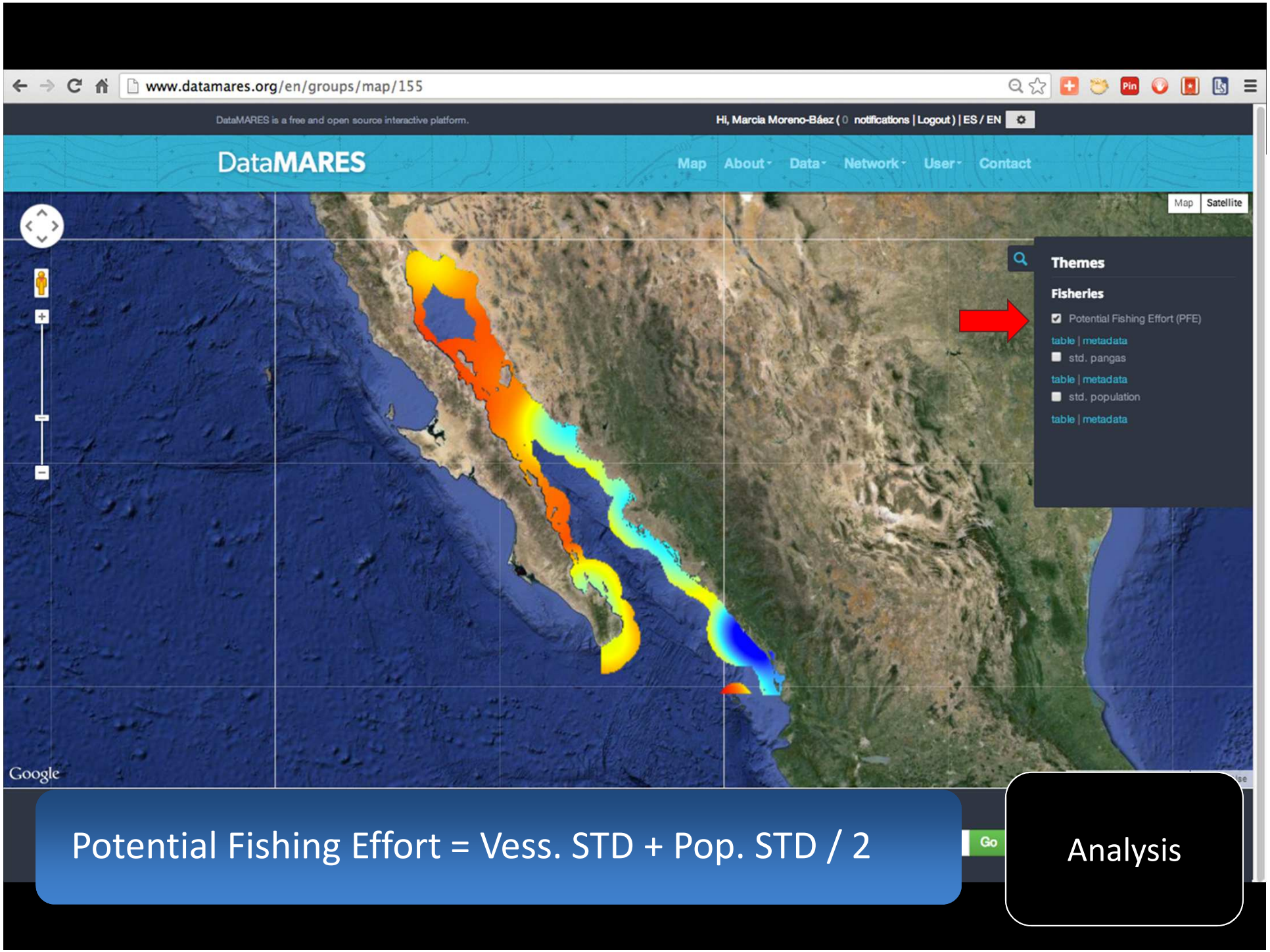
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Potential Fishing Effort (PFE)
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std. pangas
table | metadata
std. population
table | metadata
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Potential Fishing Effort = Vess. STD + Pop. STD / 2
Go
Analysis

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Where we are and what´s next?

- Ecological Metadata Language (EML)
- Data policy
- Help center
- Query improvements
- Tabular and spatial analysis
- Bring more human resources
- Connect with other initiatives