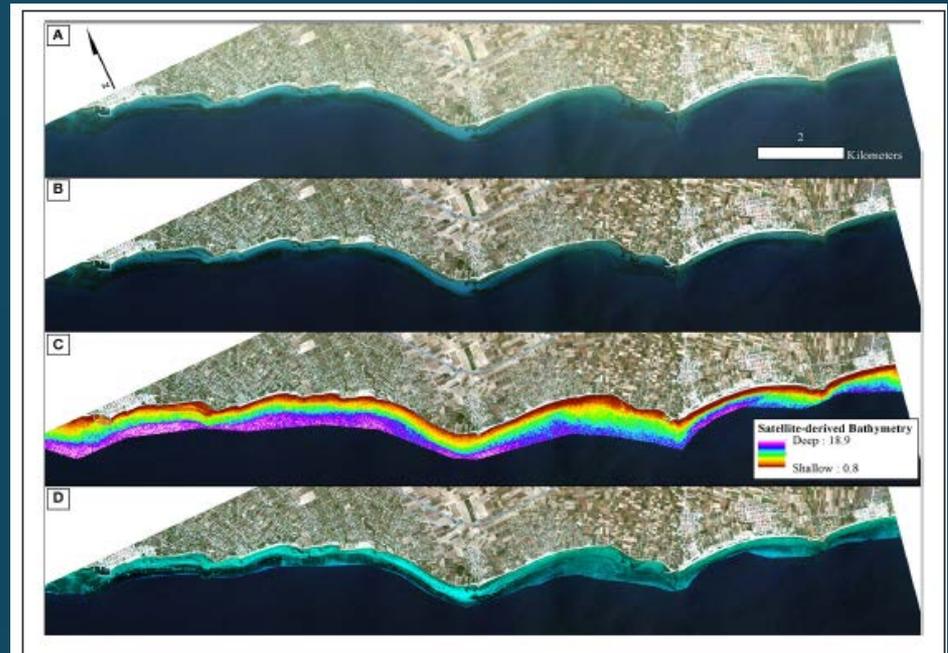


Hill et al 2014



Traganos & Reinartz 2018

A Tool for Sharing Best Practices

The Coastal SAV Mapping/Monitoring

Community of Practice

David J. Wilcox, Mark Finkbeiner,
Kris Kaufman, Robert Orth



What is a Community of Practice?

Domain

- A domain of knowledge creates common ground, inspires members to participate, guides their learning and gives meaning to their actions.

Community

- The notion of a community creates the social fabric for that learning. A strong community fosters interactions and encourages a willingness to share ideas.

Practice

- While the domain provides the general area of interest for the community, the practice is the specific focus around which the community develops, shares and maintains its core of knowledge.

Some Example CoPs

The screenshot displays the CMECS Community Forum Home page. At the top, the 'YOUTH POWER' logo is visible on the left, and a hamburger menu icon is on the right. Below this is a dark blue header with the 'Communities of Practice' logo and the text 'an online community for agricultural educators from the National Association of Agricultural Educators'. The main navigation bar includes 'Home', 'News', and a search bar with a 'Log in' link. A left sidebar contains a 'CMECS Implementation Group' section with a 'Pages' list: 'Community Forum', 'File lists', 'CMECS News and Calendar', 'Rules and Guidelines', 'CMECS IG Forums', 'CMECS Resources', 'File lists', and 'Community Forum'. Below this is a 'WHAT'S' section with a star icon. The main content area is titled 'CMECS Community Forum Home' and includes a welcome message, a list of goals (keeping users informed, sharing methods, providing a question submission means, and sharing materials), and information about the CMECS website and catalog of units. A search bar is provided for finding topics or browsing the page tree. At the bottom, there are sections for 'Browse pages and forums' and 'Recently Updated' items, including 'CMECS News and Calendar' and 'CMECS Resources'.

YOUTH POWER

Communities of Practice
an online community for agricultural educators from the National Association of Agricultural Educators

USGS Spaces Forums Search Log in

Home News

WELCOME
NAAE's Communities of Practice is an online community for agricultural educators. Find discussions you can use in your classroom.
And with any community if you've been teaching so don't be shy.

WHAT'S

CMECS Implementation Group

- Pages
 - Community Forum
 - File lists
- SPACE SHORTCUTS
 - Community Forum
 - File lists
- PAGE TREE
 - CMECS News and Calendar
 - Rules and Guidelines
 - CMECS IG Forums
 - CMECS Resources
 - File lists
 - Community Forum

Dashboard

CMECS Community Forum Home

Created by Wright, Justin Jacob, last modified by Kate Rose on Mar 28, 2018

Welcome to the Coastal and Marine Ecological Classification Standard (CMECS) Community Forum.

This site is managed by the CMECS Implementation Group (IG). Our goal is to facilitate working relationships between CMECS users by:

- keeping the CMECS user community informed of CMECS-related activities, meetings, and conferences
- sharing recommended classification application methods, guidelines, and other technical advice to the user community
- providing a means for users to submit questions to the IG and the larger community, through our Community Forum (please be sure to visit our Rules and Guidelines before participating in the forum)
- sharing publications and outreach materials

CMECS
Coastal & Marine Ecological Classification Standard

This site complements the official CMECS web site and the on-line CMECS Catalog of Units. Users are encouraged to visit the CMECS web site to access guidance material for applying CMECS, information on existing projects, and crosswalks to other commonly-used classification systems.

The CMECS Catalog of Units allows quick search capability and background information on the over 1,500 classification and modifier units. This site also is where users should submit suggestions for updates/modifications to the standard.

The CMECS Community Forum Site is part of the Confluence MyUSGS Platform. If you are not part of USGS you can view the site, but to participate in the forum you need to become a member. Please email us at ocm.cmeecs-ig@noaa.gov for instructions on how to join.

Search this site for topics or browse the page tree below

Search

Browse pages and forums

- CMECS News and Calendar
- Rules and Guidelines

Recently Updated

- CMECS News and Calendar
Jan 11, 2019 • updated by Kate Rose • view change
- CMECS Resources

SAV Mapping/Monitoring CoP

Statement of Need

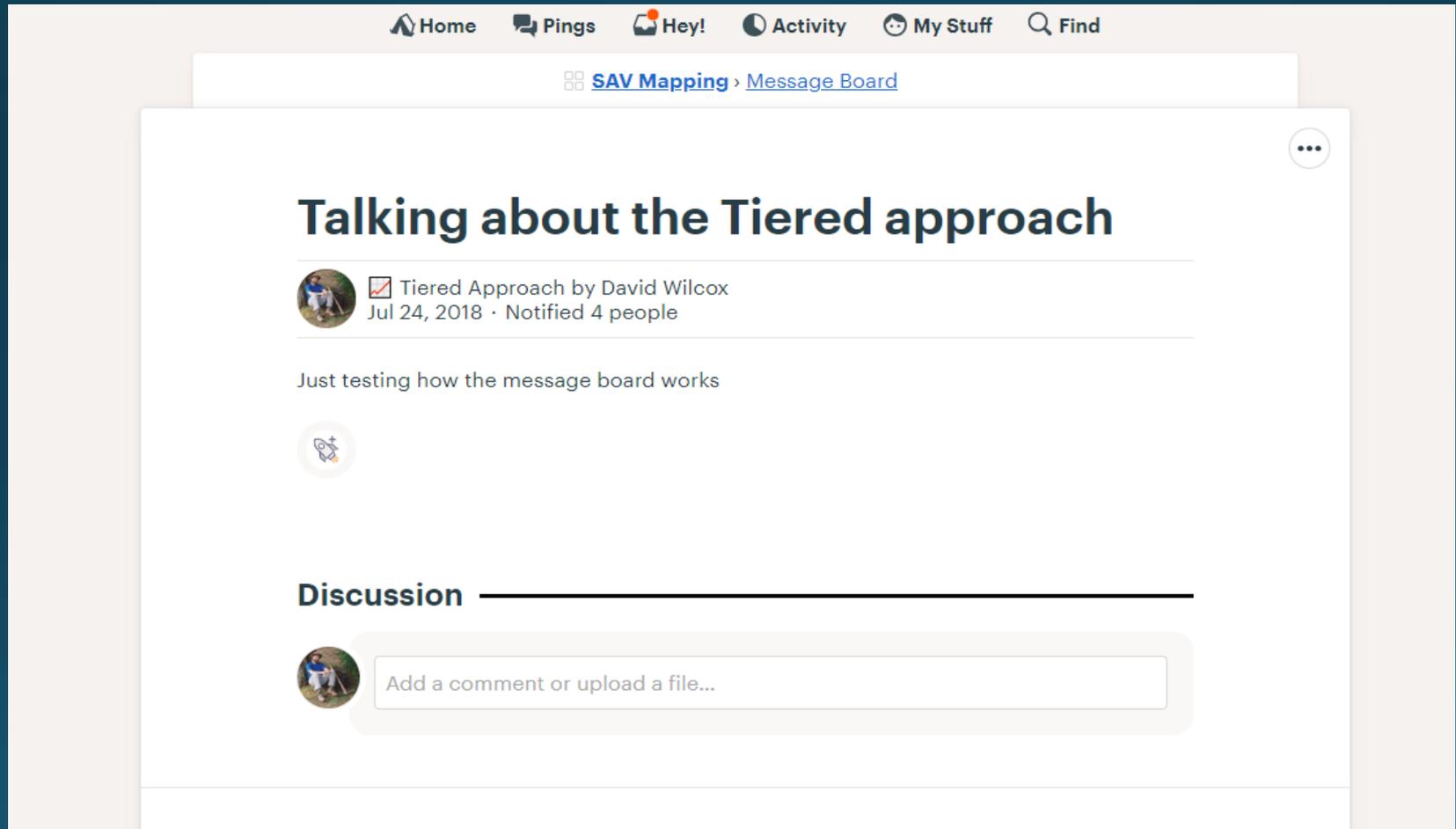
- SAV is a globally significant resource with many important ecological functions.
- SAV is mapped and monitored by many independent organizations, usually working in local, or occasionally regional, geographies.
- Several technologies are being used for SAV mapping and monitoring and the resources to conduct this work are perennially limited.
- There is continual personnel turnover among practitioners that hinders knowledge transfer and use of best practices.



SAV Mapping CoP Goals & Objectives

1. Facilitate information exchange and maximize collaboration potential by providing a mechanism for connecting experts and practitioners around the country. This includes a broadcast email address and a spreadsheet of contacts with affiliations, and areas of expertise.
2. Take advantage of efficiencies by providing information on current or planned activities that would allow others to collaborate or benefit from project outputs, especially new data collections.
3. Foster application of appropriate mapping/monitoring technologies. This would include strengths, weaknesses, skill requirements, private sector vendors, and general costs or drivers of costs.
4. Optimize data quality by serving as a location for best practices manuals and documents related to mapping/monitoring.
5. Provide access to relevant grey literature, reports, and other documents outside the traditional journal publications.
6. Improve advocacy efforts for SAV mapping/monitoring.

1. Facilitate information exchange



The screenshot displays a web application interface with a navigation bar at the top containing links for Home, Pings, Hey!, Activity, My Stuff, and Find. Below the navigation bar, the breadcrumb path is SAV Mapping > Message Board. The main content area features a post titled "Talking about the Tiered approach" with a user profile picture and a checkmark icon. The post text reads "Tiered Approach by David Wilcox" and "Jul 24, 2018 · Notified 4 people". Below the post title, the text "Just testing how the message board works" is displayed. A small rocket icon is visible below the text. A "Discussion" section is indicated by a horizontal line. At the bottom, there is a comment input field with a placeholder text "Add a comment or upload a file..." and a user profile picture.

Home Pings Hey! Activity My Stuff Find

SAV Mapping > Message Board

Talking about the Tiered approach

 Tiered Approach by David Wilcox
Jul 24, 2018 · Notified 4 people

Just testing how the message board works



Discussion

 Add a comment or upload a file...

2. Sharing acquisition plans

1.5 Area of Interest for Imagery Acquisition

The principal area of interest for proposed imagery acquisition is Florida's Big Bend, an area of 4680 km² (Figure 3).

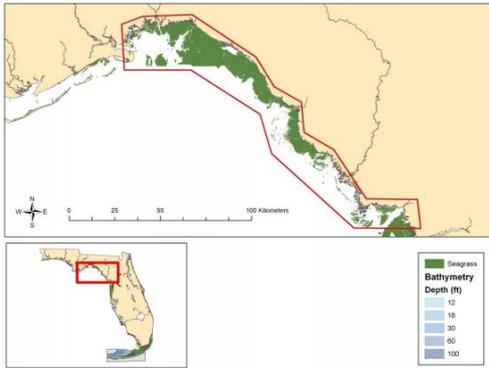
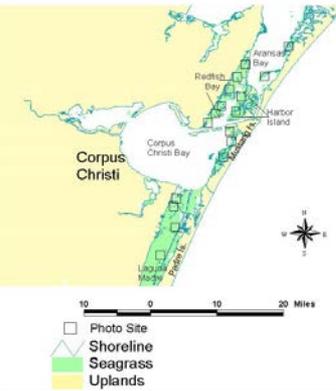


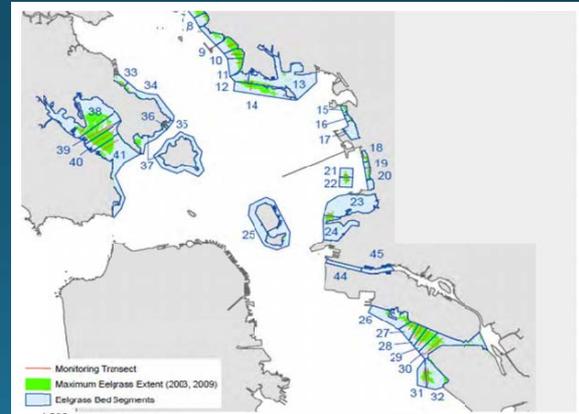
Fig. 4-2. Coastal Bend Region 1:9,600 Photo Monitoring Sites



PROJECT AREA – INDIAN RIVER LAGOON



Figure 4-3. Lower Laguna Madre 1:9,600 Photo Monitoring Sites



3. Mapping/Monitoring Technologies



4. Sharing Best Practices

A Seagrass Monitoring Approach for the Gulf of Mexico

Developed by:

Lawrence Handley
Scientist Emeritus, USGS

Catherine Lockwood
Geographer, CNL World

Kathryn Spear
Ecologist, USGS

Mark Finkbeiner
GISP, NOAA

W. Judson Kenworthy
Retired NOAA

For
The Gulf of Mexico Alliance (GOMA)
Gulf Star Award 2017
Habitat Resources Team

June 2018

SEAGRASS-WATCH

Seagrass Monitoring Guidelines
for Torres Strait Communities

Meer Island
14-15 September, 2009



Jane Mellors & Len McKenzie
Seagrass-Watch HQ
Department of Employment, Economic Development and Innovation

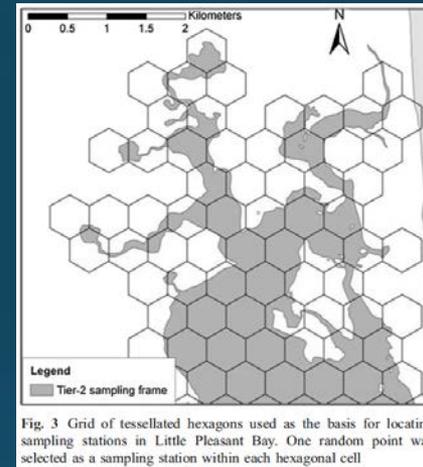


Fig. 3 Grid of tessellated hexagons used as the basis for locating sampling stations in Little Pleasant Bay. One random point was selected as a sampling station within each hexagonal cell

Neckles et al 2012

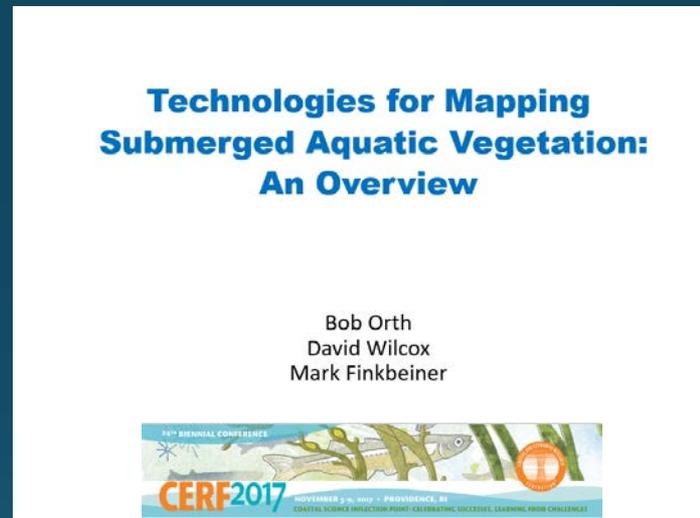
5. Sharing SAV Mapping Literature

Table 2. Published studies on seagrass ecosystem characteristics and improvement of algorithm.

RS system	Passive				Active					Field
Platform	Satellite				Boat		Aircraft			
Sensor type	Hyperspectral	Multispectral (HSR)	Multispectral (MSR)	Multispectral (LSR)	Acoustic	Laser	Laser	Hyperspectral	Photograph	UAV, SRM, photo/video
Example of sensor	Hyperion	IK, QB, WV2	Landsat MSS, TM, ETM+, ALI, CBERS, SPOT, ALOS, ASTER	MODIS, MERIS	SSS, SBES, MBES, ADCP, SIS	FILLS	Lidar	CASI, HyMap	AP, HR digital camera	
• Application of RS for seagrass mapping										
Seagrass species		Phinn et al. (2008); Lyons, Phinn, and Roelfsema (2011); Roelfsema et al. (2014); Dekker, Brando, and Anstee (2005); Mumby and Edwards (2002); Fornes et al. (2006) (6)	Phinn et al. (2008) (1)		Komatsu et al. (2003); Pasqualini et al. (2000) (2)			Phinn et al. (2008) (1)	Holmes et al. (2007); Murdoch et al. (2007); Meehan, Williams, and Watford (2005); Moore, Wilcox, and Orth (2000) (4)	Armstrong et al. (2006); Fyfe (2003); Komatsu et al. (2003); Pasqualini et al. (2000); Kendrick, Duarte, and Marbà (2005) (5)
Seagrass growth (biomass, canopy height, LAI, NDVI)	Pu and Bell (2013); Pu et al. (2012) (2)	Phinn et al. (2008); Roelfsema et al. (2014); Urbafski, Mazar, and Janas (2009); Liew and Chang (2012); Knudby and Nordlund (2011); Mumby and Edwards (2002); Borfecchia et al. (2013) (7)	Pu and Bell (2013); Pu et al. (2012); Mumby et al. (1997); Wicaksono and Hafizt (2013); Armstrong (1993); Schweizer, Armstrong, and Posada (2005) (6)		Paul et al. (2011); Komatsu et al. (2003); Warren and Peterson (2007); Lefebvre et al. (2009); Lo Iacono et al. (2008); Munday, Moore, and Burczynski (2013) (6)	Dierssen et al. (2003) (1)		Phinn et al. (2008); Mumby et al. (1997) (2)	Larkum and West (1990) (1)	Kutser et al. (2007); Kendrick, Duarte, and Marbà (2005) (2)

(Continued)

6. Advocating for SAV Mapping/ Monitoring



What does the SAV Mapping/ Monitoring CoP look like?

- Combined SAV Mapping and Gulf of Mexico Steering Committee has been established
 - Mark Finkbeiner, Larry Handley, Kris Kaufman, Jud Kenworthy, Catherine Lockwood, Robert Orth, Kate Spear, Dave Wilcox
- Email list with Basecamp forum for collaboration
- Web presence for GOM Seagrass CoP



Coming Soon!

- CERF has offered to provide space on their website and through Basecamp
- Links to content that is actively managed
 - Publications
 - Directory of SAV Mapping/Monitoring Programs
 - Best Practices Documents
- Considering meetings in coordination with CERF affiliate meetings
- SAV Mapping/Monitoring SAV Workshop at CERF
 - Mobile, AL – Sunday, November 3, 2019



Please Join Us!

Add your contact information to the list so that we can make sure that you are included as the SAV Mapping/Monitoring CoP goes live!

We are looking for beta testers and first community members.

Thanks!

David J. Wilcox, Mark Finkbeiner,
Kris Kaufman, Robert Orth

