

OBIS-SEAMAP

marine megavertebrate geo-archive

http://seamap.env.duke.edu

Highlights of OBIS-SEAMAP Photo ID App

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Highlights (1)

- Completely new interface for image handling
 - Larger image for better comparison of images
 - More intuitive, flexible rotation, cropping & zooming of image
 - Option to see multiple images of an animal together
 - Two selectable layouts of image and metadata
- New image editing tools
 - Grayscale
 - Brightness
 - Contrast
 - EXIF information
- Renovated view of matches
 - Integrated into the upper portion along with thumbnail view
 - All filtering options available to search matches
 - A few view/sorting options available

Highlights (2)

- Improved, clean operation of fin matching
 - Always one button / status in the center of toolbar
 - Simpler, cleaner popup
- New/improved filtering options
 - Match status (verified/in review/rejected)
 - Selectable list of Match ID
 - "Only" condition for fin features
 - "Strict" option for image date
- New view/layout "Fit" added to the thumbnail view
- Improved Site Information
- Integration of animals identified by Happywhale.com

New interface for image handling (1)



New interface for image handling (2)

You can see multiple images of the same animal together. Another layout (metadata in a vertical box) is available. To change these settings, click the three-dot option icon. These options will be remembered for your next visit of the App.



New image editing tools (1)

Cropping, flipping and/or turning grayscale the image and adjusting brightness, contrast, opacity make comparison easier. To get the image back to the original, click "Undo".



New image editing tools (2)

Image's EXIF information, if available, is visible.



Renovated view of matches (1)

The previous "Browse Matches" window is integrated into the upper portion of the app. The existing thumbnails for Site 1 & 2 and a new matching window are treated as selectable views.



Renovated view of matches (2)

You can pick up matches for a particular site. And further filter them to a particular combination of Site 1 and 2.

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		OBIS SEAMAP	Mid-Atlantic Bottlenose	Dolphin Photo ID		efujioka (Log out)				
14 4 Page 1 of 2 🕨 🍂	Displaying 1 - 50 of 98	Site 1 NC-DUML-UNCW	▼ Site	to Site Matches	Site 2 VA-SB	~				
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Collaborating bottlenose dolphin photo	-ID researchers	Match ID 3	Site ID NC-DUML-UNCW			Site ID VA-SB				
e.g. Matches for Site	"NC-DUML-UNCW"	State VERIFIED Ref# 578fbafbbBabb Updated on 2016 07-20 04:5 History Enow Comments Show	Original ID 71880 MABDC ID 14590 Contributor Kim Urian Status Submit	de la		Original ID VMSM 0030 MABDC ID 2400 Contributor Sue Barco Status Consent				
		Page 1 of 1 P		Download (per Ref#)						
e.g. Matches for Sites	sbetween	Katching Naps & Sightings	1			(i) Dataset Info (i) Site Info (?) Help				
"NC-DUML-UNCW" a	nd "VA-SB"	MABDC bottlenose dolphin Duke University Marine L	Duke University Marine Laboratory							
		Dataset credit	Dataset credit							
		Collaborating bottlenose dolphin		Rays and sharks 0						

Renovated view of matches (3)

All filtering options can be used to filter matches.

OBIS SEAMAP	Mid-Atlantic Bottler	nose Dolphin	Photo ID		efujiok	a (Log out)
Site 1 Select a site to show fin images	*	Site to Site	Matches	Site 2 Select a site to show f	fin images	~
Image size 🔹 Sort by 👻					Filtering (2 options set)	Clear options
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Match ID131StateIn ReviewRef#5a6f6d2a2afefUpdated on2018-01-29 03:51HistoryShowCommentsShow	Site IDNC-OBXCDROriginal ID728MABDC ID11405ContributorTaylor JessicaStatusConsent	2	Mutila Fin sh Scars Pedur Equal	tion ape icle scars, notches ly prominent in trailing upper and lower		* II
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			Date range Apply Filt	er Clear Filter	Strict	•

e.g. "In Review" matches for animals with trailing edge

Renovated view of matches (4)

OBIS SEAMAP Mid-Atlantic Bottlenose D	Dolphin Photo ID	efujioka (Log out)	
ite 1 Select a site to show fin images	Site to Site Matches	Site 2 Select a site to show fin images	
nage size 🔹 Sort by 👻		Filtering (0 options set) Clear options	
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Site ID NJ-RMD NC-NCMM 2015 Site ID Original ID 446:12 3672a Original ID MABDC ID 1513 18644 MABDC ID	NC-DUML-UNCW NC-NCMM 2015 80950 3672a 14851 18644	Site ID NC-DUML-UNCW VA-HDR Original ID 71880 0422 MABDC ID 14590	
Contributor Rich Mallon-Day Keith Rittmaster Contributor Status Consent Consent Status	r Kim Urian Keith Rittmaster Submit Consent	Contributor Kim Urial Status Submit This view shows in two or three	
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Match ID7StateVERIFIED &Match IDUpdated on2016-06-29 01:23Ref#5771741cd5269Updated of	10 State VERIFIED ₯ n 2016-07-26 03:58 Ref# 5788fde5ab504	Match ID 14 State VERIFIED & Updated on 2016-08-16 07:29 Ref# 57ae2b351a57d	
Page 1 of 8 I Displaying 1 - 50 of 372		📓 Download (per Ref#) 📓 Download (pivot on sites)	
🖇 Matching 📘 Maps & Sightings			^
MABDC bottlenose dolphin sightings Duke University Marine Laboratory	Site 1 Select a site to show fin images	Site to Site Matches Site 2 Select a site to show fin images	
Multiple views are available from	Image size Sort by	Filtering (0 options set) Clear options	
 [Image size]: Medium size photo (default) 	Match P State Updated on Site 1 2 VERIFIED & 2016-08-04 07: Site 2 2 2	Site ID Original ID MABDC ID Age Sex Stranded Contributor Status NJ-RMD 446:12 1513 A U Rich Mallon-Day Consent Image: Consent Image	1001 III
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List of matches can be sorted in	Match D State Updated on Site 1 3 IN_REVIEW P 2016-07-20 0	Site ID Original ID MABDC ID Age Sex Stranded Contributor Status NC-DUML-UNCW 71880 14590 A U Kim Urian Submit Submit VA-HDR 0422 12704 A U Amy Engelhaupt Reject	
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 Match ID 	🔏 Matching 📗 Maps & Sightings	Dataset Info Ste Info Ste Info Hep	
 State (verified/rejected/in review) 	MABDC bottlenose dolphin sightings Duke University Marine Laboratory	OBIS-SEAMAP ID 663	
 Animal ID Reference ID 	Dataset credit	Seconds 0 Marine mammals 27,602 Sea turtles 0	
	Collaborating bottlenose dolphin photo-ID researchers	Rays and sharks 0 Other species 0	-

Improved operation of fin matching (1)

When you found a potential match, click [Submit Match] button, which is located in the center of the toolbar. A simpler action window will be popped up.



Improved operation of fin matching (2)

The same operation goes for "In Review" match. Simply click [Consent or Reject Match] button.



Improved operation of fin matching (3)

When you see the matched animals, the status "Match Verified" is shown in the same place.



New/improved filtering options (1)

You can pick up animals with the status of matching (Verified / In Review / Rejected / No match) You can also choose the animal with a particular Match ID (the list of Match ID reflects the site selected)



Date range / / / - / / Strict
Apply Filter Clear Filter

New/improved filtering options (2)

- "Only" condition for the features is useful to find the animals that have the exact set of features.



New/improved filtering options (3)

"Strict" option narrows down the animals no pictures of whom were taken beyond the specified date range.

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"Fit" added to the thumbnail view



Improved Site Information

The view of the site information is redesigned (and replaced in the lower toolbar) so you can see the summary of the two sites side by side.



Improved View of Sightings

The sighting records and corresponding map has a new option "Include matched animals". With this option checked, the sightings of the matched animals are included in the records and map. You can also group the sighting records by Match ID (default: Site)



Identify by Happywhale.com (1)

The animals in PhotoID App can be identified using APIs by Happywhale.com. This feature lists up the whales in Happywhale.com that match with the animals in PhotoID App and allow the curator to confirm the matches.



After selecting Site 1, click [Site to Happywhale].

Then, click [Happywhale Identify] to call APIs of Happywhale.com to match animals in PhotoID with those in Happywhale.com. If a fluke image is selected in Site 1, only the match for that animal will be attempted.

Explore the potential matches with higher scores (the higher the score is, the more reliable the match is).

If you agree that this is the right match, click [Confirm].

Identify by Happywhale.com (2)

You can filter the potential matches returned from Happywhale.com by score, Animal ID by Happywhale and/or identification state.



- [Score greater than] is useful to see Happywhale's fluke images that match with PhotoID images at a high confidence (e.g. > 0.8).
- If you know the Animal ID by Happywhale.com, you can enter it into [Happywhale ID].
- If you want to see only the confirmed matches, check [Confirmed].
- If you want to see happywhale's animals that have not been matched with PhotoID animals, check [Potential].

Identify by Happywhale.com (3)

If you want to cancel the match confirmation, you can revoke it.



- Select the matched whales in Site 1 and the Happywhale side. The matched whale from Happywhale is highlighted in green.
- Click [Revoke].
- Click [Yes] in the confirmation dialog.
- The Happywhale side will be refreshed.