

Marine Debris Tracker: Citizen Science and Data Collection to Raise Awareness and Inform Solutions



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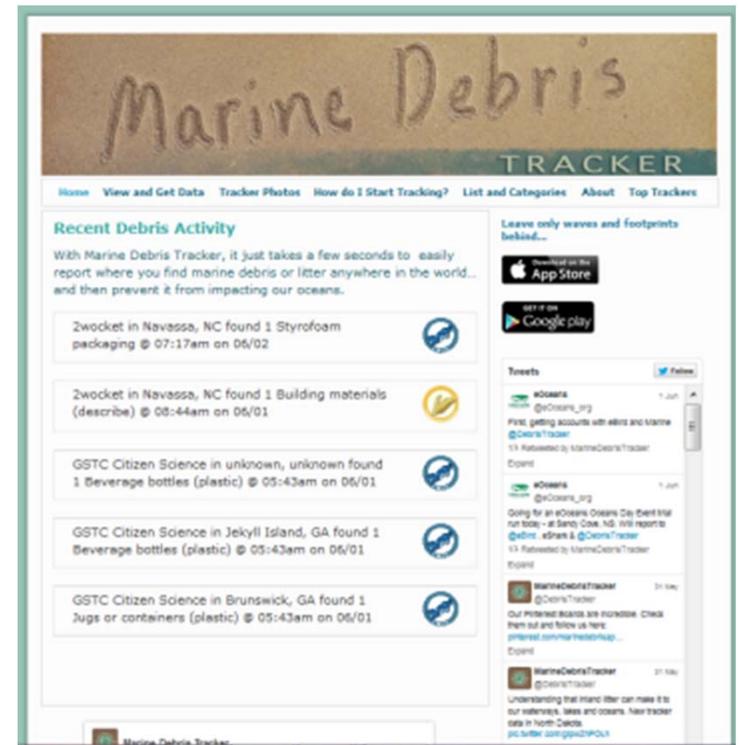
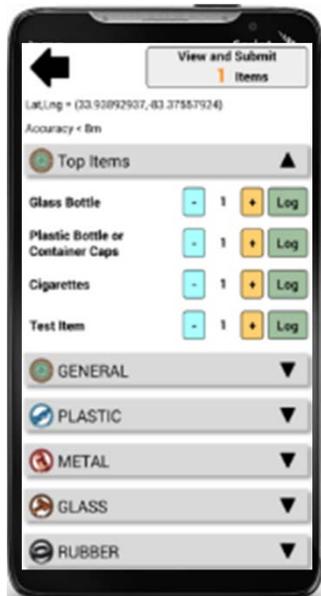
Katherine Shayne
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Marine Debris Tracker

Tool for Data Collection

- Less error without paper & pen
- GPS coordinate for every debris item
- Near real time data gathering/upload
- Easy download (Excel) and mapping
- Used by researchers, citizens or citizen scientists

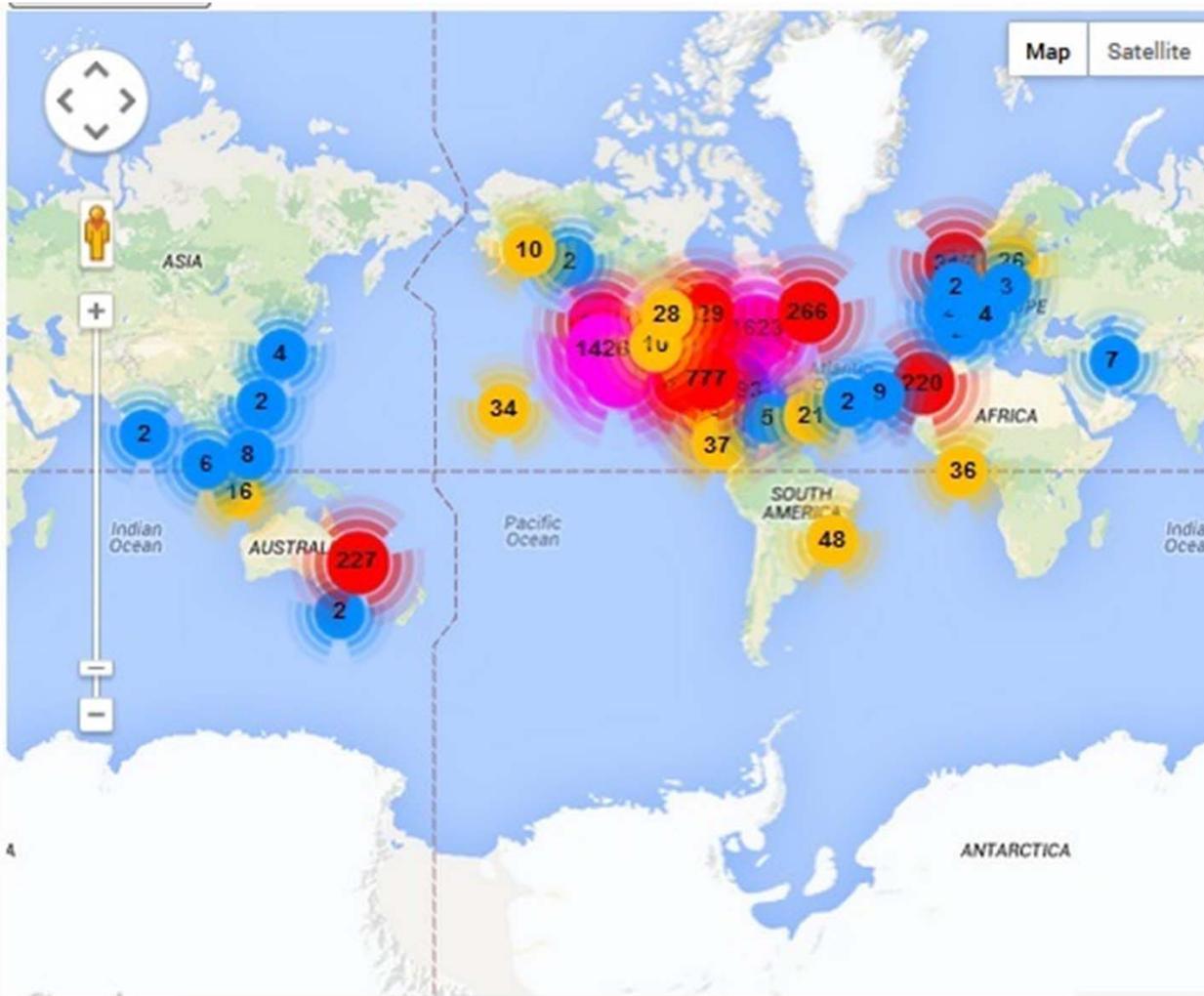


Website: <http://www.marinedebris.engr.uga.edu/>

Individuals know they are a part of a larger group effort



Marine Debris Tracker



rozalia project

Android and iPhone - Over 12,000 downloads
Over 81,000 entries; 834,000 items logged

Show List:

User	Description	Items Logged	Entries	Badge
<p>GSTC Citizen Science</p> 	<p>The Georgia Sea Turtle Center is a marine turtle rehabilitation, research, and education facility on Jekyll Island. The Center's Marine Debris Citizen Science participants keep Jekyll Island's beaches free of marine debris.</p>	165709	20542	
<p>OldMarketPhoto</p> 	<p>Old Market Photo has a passion for photographic light and to take 18,000 steps a day. The path behind him is cleaner than what faces him because he picks up litter and documents it all with MDT! Find him on Twitter @oldmarketphoto.</p>	80405	9977	
<p>FOHI Turtles</p> 	<p>In cooperation with South Carolina Department of Natural Resources and the U.S. Fish and Wildlife Service, the volunteers of the Sea Turtle Conservation Project commit their early mornings from May through mid-October to walk the beaches of Hunting Island State</p>	6239	3632	

Marine Debris Tracker

Social Media and Press

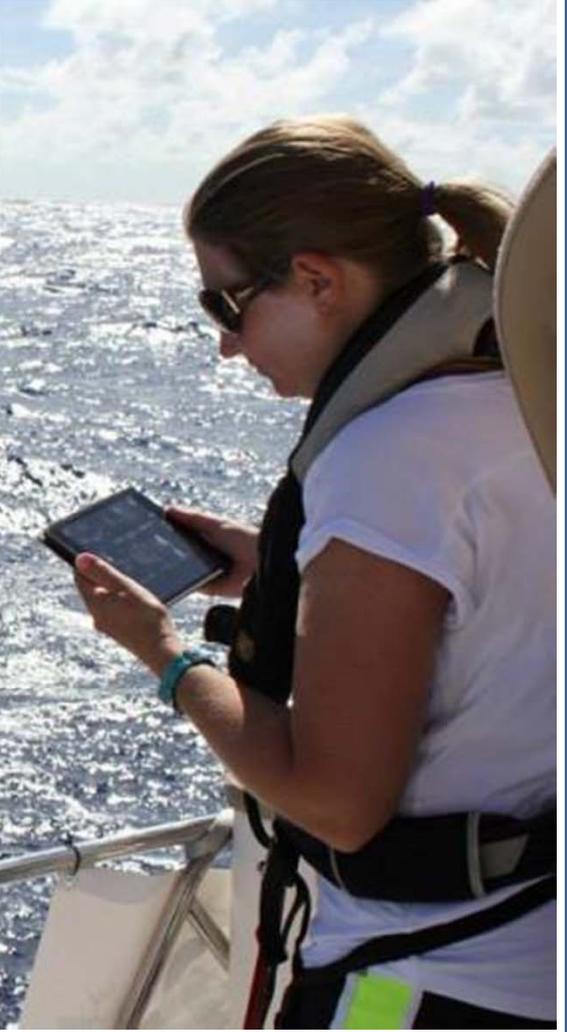
- Twitter Stats (@DebrisTracker)
 - 2,972 Followers
 - 1,678 Following
- Facebook (811)
 - <https://www.facebook.com/MarineDebrisTracker>
- Pinterest
- Press
 - Scientific American, Treehugger, NYT Green Blog, Smithsonian Ocean Portal Blog, Our Amazing Planet, Local News/Radio, Mashable, The Guardian (Blog post by Undersecretary Novelli)



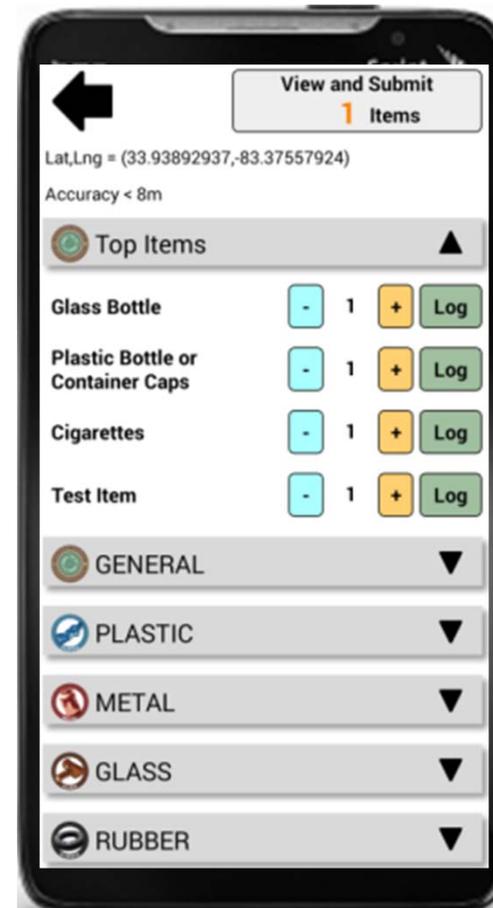
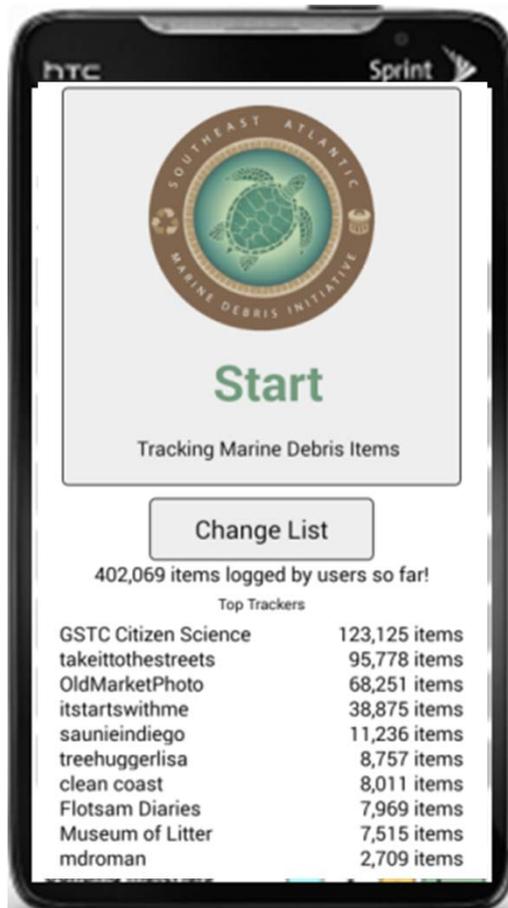


Apps We Can't Live Without

Watch the film [▶](#)



Make things Simple to Use, Let Technology work for You



Map

Satellite

Hans Lollik
Island

Thatch Cay

Coral World Ocean Park

Mandal

Charlotte
Amalie West

Charlotte
Amalie

St Thomas

Frenchman's Reef
& Morning Star...

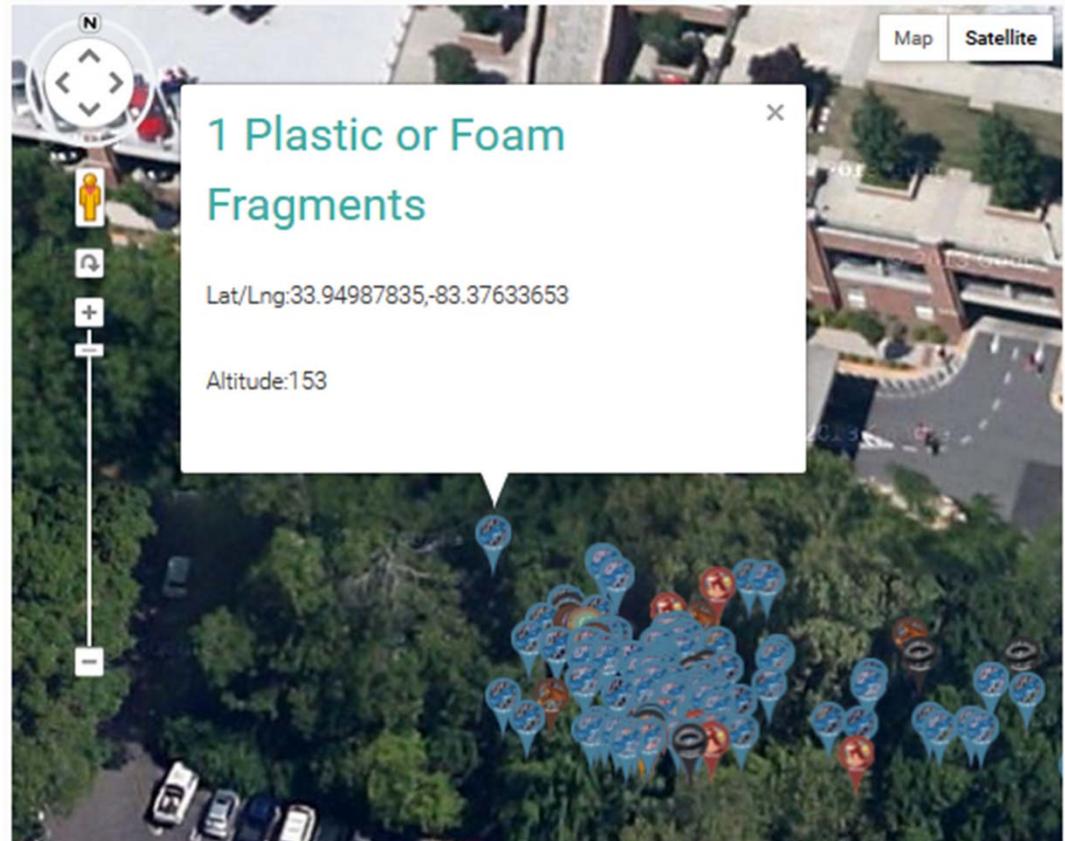
Estimote Bovoni

St. Thomas
East End
Reserves



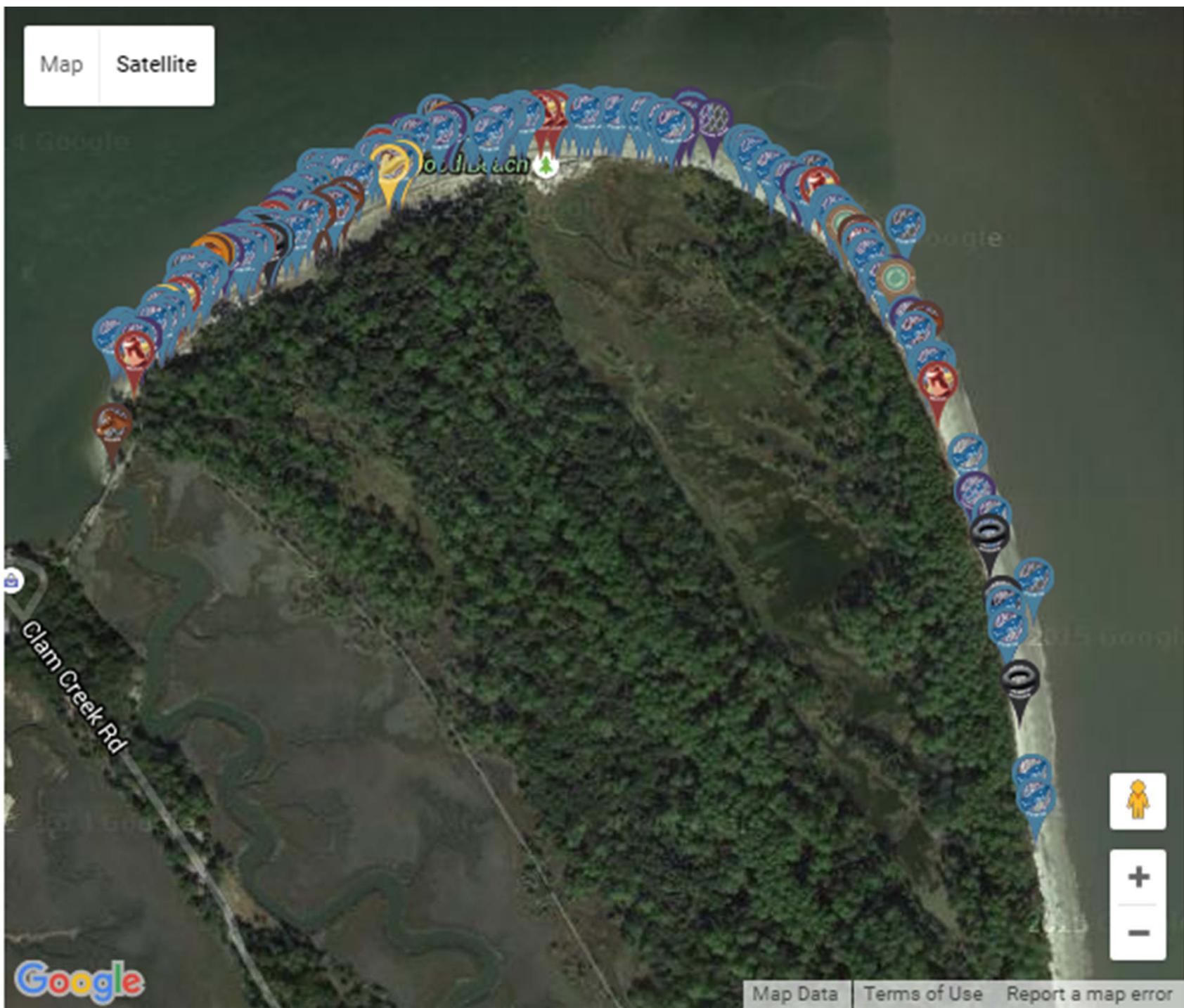
Sophomore Design

- Study of two watersheds on campus
- Debris/litter (weekly – 5 weeks)
- Stream flow
- Water quality



Map

Satellite



Google

Clam Creek Rd

Google

Map Data | Terms of Use | Report a map error



Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



Citizen-Based Litter and Marine Debris Data Collection and Mapping

Jenna R. Jambeck and Kyle Johnsen | University of Georgia, Athens

The monitoring of litter and debris is challenging at the global scale because of disconnected local organizations and the use of paper and pen for documentation. The Marine Debris Tracker mobile app and citizen science program allows for the collection of global standardized data at a scale, speed, and efficiency that wasn't previously possible.

Jambeck, J.R., Johnsen, K. (2015). Marine Debris Tracker: Citizen-based Litter and Marine Debris Data Collection and Mapping, *Computing in Science and Engineering*, [10.1109/MCSE.2015.67](https://doi.org/10.1109/MCSE.2015.67).

What's on the Horizon?

- Data analysis to provide more than just descriptive stats to our users
 - Awareness and education
 - Data collection to inform solutions to the problem
- New funding from
 - 11th Hour Racing
 - Sailing community
 - Keep Tampa Bay Beautiful
 - Large, local community use
- App customization/branding based upon list-choice



11TH HOUR RACING





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