



Example Training Approaches for Citizen Science Projects, particularly detailing the training offered to volunteers and associated cost.

Citizen Science Activity	Website	General Description (of data volunteers collect)	Volunteer Training Mode (initial)	Cost (to program)	Volunteer Training Mode (continuing)	Cost (to program)
Chowan Citizen Hydrilla Monitoring Group "Hydrilla Guerillas"	http://www.arcgis.com/home/item.html?id=db9d2e8d7dec4153affd2caefa42c959	Complete boat-based surveys for specific watersheds to document Hydrilla infestations. Surveys take place from late summer to the middle of autumn. If Hydrilla is present, additional data on abundance and plant height from rake sample.	Volunteers attend a Saturday morning in-person training on plant identification (led by an aquatic plant specialist), and on sampling protocol and data recording.		Volunteers must attend each year.	
Christmas Bird Count (CBC)	Conducted through local Audubon groups, but general information can be found here: http://www.audubon.org/join-christmas-bird-count	Collect data for bird abundance and distribution at a defined time of the year.	Paired with experienced birder/group leader (peer-to-peer)			
Clean Virginia Waterways	Many examples, for instance, Clean Virginia Waterways through Longwood University: http://www.longwood.edu/cleanva/	Collect data for water-quality metrics and/or	Varies in delivery methods			



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		macroinvertebrates and/or bacterial levels.				
Community Collaborative Rain, Hail & Snow Network (CoCoRaHS)	https://www.cocorahs.org/	Precipitation, temperature	Training by video https://www.youtube.com/user/cocorahs	Local coordinator assists in setting up sites (as needed). Volunteers purchase their own approved equipment.		
eBird	http://ebird.org	Collect data on bird abundance and distribution.	Individually driven			
Florida Fish & Wildlife Conservation Commission / Florida Sea Grant Joint Citizen Science Horseshoe Crab Count	http://myfwc.com/research/saltwater/crustaceans/horseshoe-crabs/citizen-watch/	Count, sex, and tag females. In spring and fall, mating sightings. Re-sightings year-round.	Training in-person and/or by video . Participants receive manual .	Local coordinator assists in setting up sites (as needed). Data sheets, manual & tagging equipment mailed (free-of-charge to volunteers).	Encouraged to commit to several years (5+).	
Florida Fish & Wildlife Conservation	https://www.flseagrant.org/news/2016/06/great-goliath-grouper-county-provides-fisheries-managers-stock-assessment-data/	Size class, number, dive	Manual and PowerPoint provided.	Local coordinator assists in	Encouraged to commit to	



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Commission / Florida Sea Grant Joint Citizen Science Great Goliath Grouper Count		location (artificial reefs)		setting up sites (as needed). Data sheets, manual & PowerPoint provided (free-of- charge to volunteers).	several years (5+)	
Georgia Adopt-a- Stream	https://adoptastream.georgia.gov/	Fresh and marine macro- invertebrates, water chemistry, E. coli counts	4- to 6-hour in- person workshops	Most volunteers purchase their own equipment from approved list.	annual recertification	
New England Basking Shark and Ocean Sunfish Project	http://www.nebshark.org	Collect data on species sightings.	Educational brochure			
NOAA Phytoplankton Monitoring Network		Collect harmful algal bloom surveillance information	2 online (WebEx) training sessions with NOAA PMN staff (~3 hours total); Must send in photos of correctly identified phytoplankton after training.	Equipment provided after completion of training		



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Reef Environmental Education Foundation (REEF)	http://www.reef.org/	Collect data for fish surveys (species, quantities observed, location)	REEF training modules via online , or in-person through REEF instructors			
University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS) Water Watch	http://miami-dade.ifas.ufl.edu/environment/sea_grant_bbww.shtml http://monroe.ifas.ufl.edu/environment/florida_keys_water_watch.shtml	Dissolved oxygen, pH, chlorophyll a, Total Nitrogen, Total Phosphorus, Ammonia, temperature, clarity, silica, salinity	4-hour in-person workshop	Kit (cost \$215+) provided on-loan to volunteers.	annual recertification (1 hour)	
Virginia Game Fish Tagging Program (VGFTP)	http://www.vims.edu/vgftp/	Collect total length and location data for tagged-and-recaptured black drum, black sea bass, cobia, red drum, sheepshead, spadefish, speckled trout, summer flounder, tautog, and (grey) triggerfish.	Mandatory, in-person , hands-on training workshop (4 hours)	tagging gear \$30/pp; fish donated; ice on-campus; 3-d prep (1/2-d making packets)	none	N/A