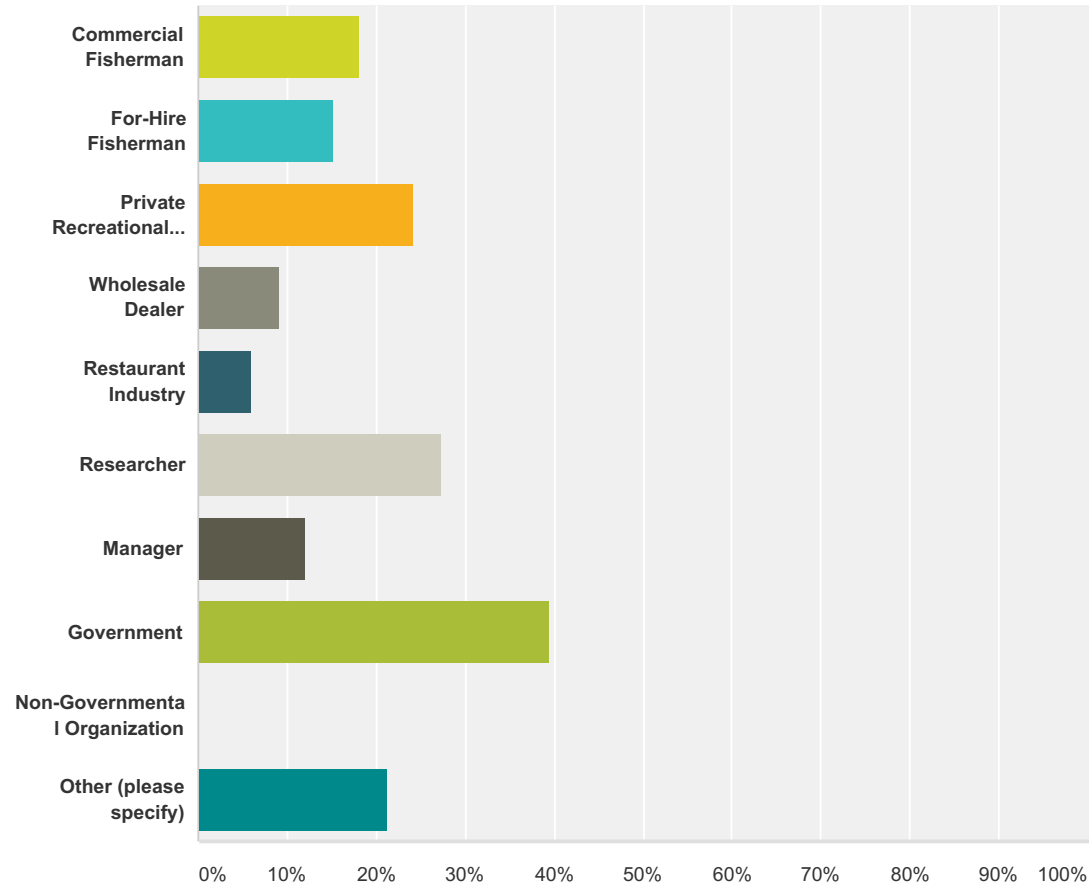


### Q1 How do you participate in fisheries in the South Atlantic? (Check all that apply.)

Answered: 33 Skipped: 0



Answer Choices	Responses	Count
Commercial Fisherman	18.18%	6
For-Hire Fisherman	15.15%	5
Private Recreational Fisherman	24.24%	8

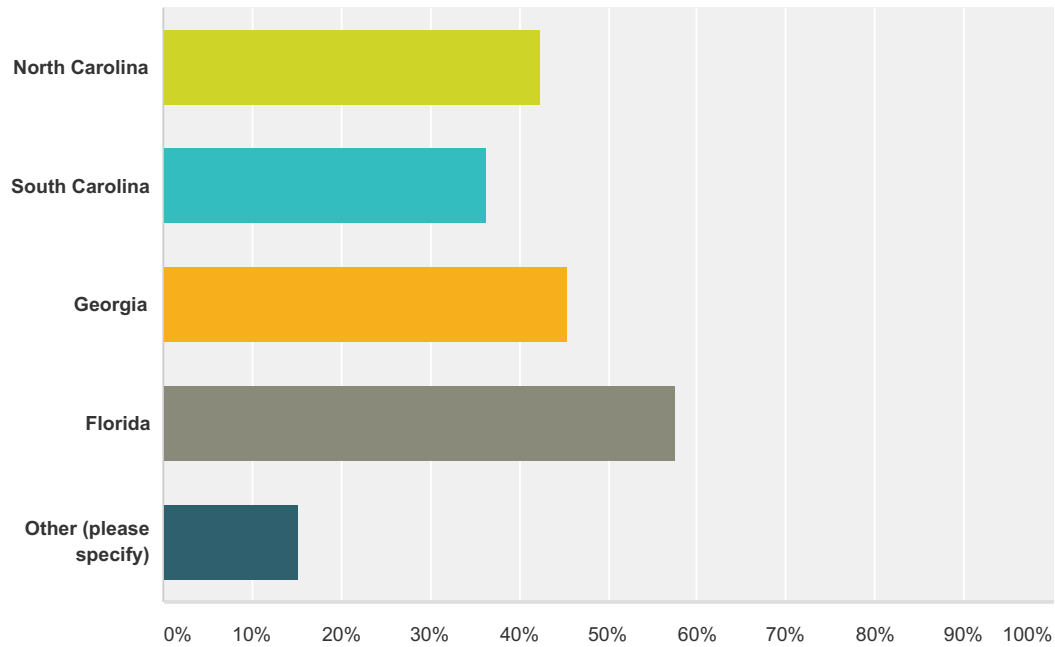
## Citizen Science: Post-Workshop Survey

Wholesale Dealer	9.09%	3
Restaurant Industry	6.06%	2
Researcher	27.27%	9
Manager	12.12%	4
Government	39.39%	13
Non-Governmental Organization	0.00%	0
Other (please specify)	21.21%	7
<b>Total Respondents: 33</b>		

#	Other (please specify)	Date
1	ACCSP	2/10/2016 3:10 PM
2	Saltwater Consultant	2/9/2016 9:31 AM
3	Concerned citizen public servant	2/8/2016 5:41 PM
4	Sea Grant	2/6/2016 8:06 AM
5	Sea Grant/Extension	2/4/2016 10:43 AM
6	SSC member	2/2/2016 6:20 PM
7	Sea Grant	2/2/2016 10:26 AM

### Q2 Which state(s) do you participate in fisheries? (Check all that apply.)

Answered: 33 Skipped: 0



Answer Choices	Responses
North Carolina	42.42% 14
South Carolina	36.36% 12
Georgia	45.45% 15
Florida	57.58% 19
Other (please specify)	15.15% 5
<b>Total Respondents: 33</b>	

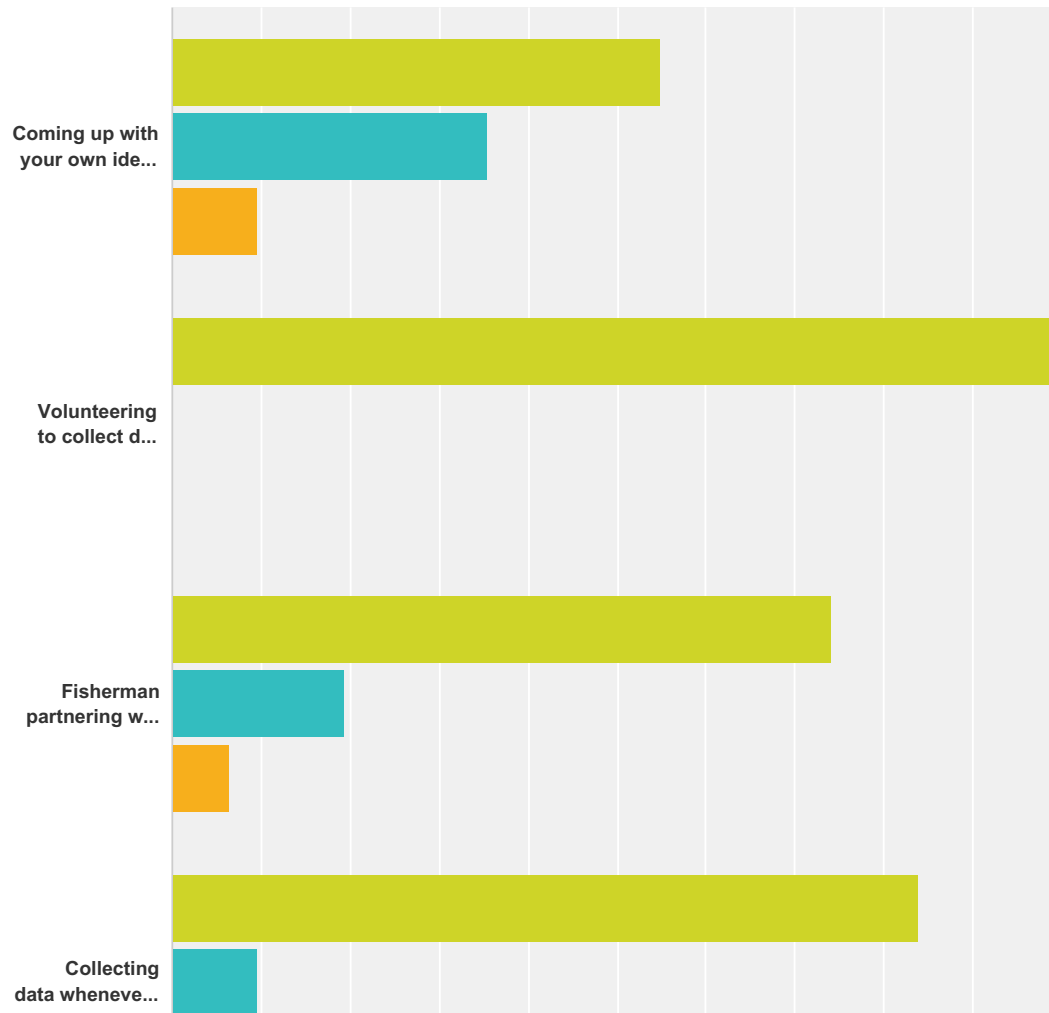
#	Other (please specify)	Date
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## Citizen Science: Post-Workshop Survey

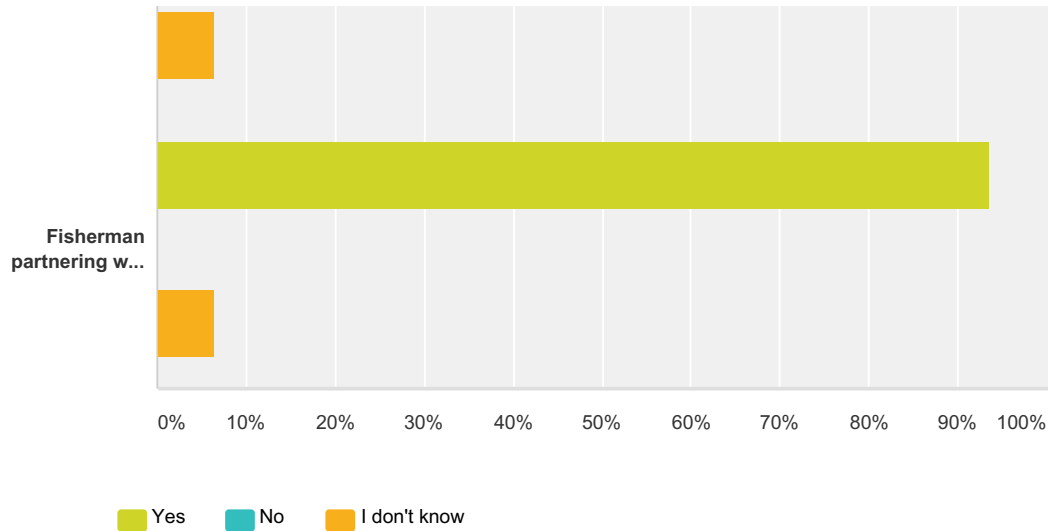
1	Federal	2/10/2016 3:10 PM
2	HMS shark fisheries from Maine to Texas	2/9/2016 9:31 AM
3	research scientist participates in all states	2/8/2016 5:15 PM
4	Regional science	2/3/2016 6:26 AM
5	none	2/2/2016 6:20 PM

**Q3 Based on what you learned at the workshop, which of the examples below would you consider citizen science? (Select 'Yes' for the projects that represent citizen science and 'No' for the projects that do not.)**

Answered: 31 Skipped: 2



## Citizen Science: Post-Workshop Survey



	Yes	No	I don't know	Total
Coming up with your own idea and designing a project to collect data	54.84% 17	35.48% 11	9.68% 3	31
Volunteering to collect data for a project as part of your normal fishing activities (e.g. record lengths of discarded fish, recording ocean temperature on trips)	100.00% 31	0.00% 0	0.00% 0	31
Fisherman partnering with a researcher and one or both getting paid to collect data	74.19% 23	19.35% 6	6.45% 2	31
Collecting data whenever it is convenient for your schedule (e.g. you catch a red snapper and take biological samples to a drop off station)	83.87% 26	9.68% 3	6.45% 2	31
Fisherman partnering with a researcher to design a collaborative project	93.55% 29	0.00% 0	6.45% 2	31

#	If you wish, please tell us more about your thoughts on the examples listed above.	Date
1	Questions 1,2, and 4 are assuming I was a fishermen. While they all have some aspect of citizen science in the broad definition, it all depends on the application of the findings. In situations such as 4, those data will be extremely limited in the information they provide.	2/9/2016 8:51 AM
2	I do not think having an individual design their own project and collecting data is Citizen Science that would be valuable to regulator and management organizations such as NMFS, NOAA, SAFMC or a state marine fisheries management department. The reason would be that the projects would be too variable in design and the data difficult to manage and utilize. I do think that a suggestion conduit, if available, would be valuable to get ideas for studies to scientific centers and enhance the pool of ideas. However, there must be some central review and approval mechanism or scientific committee to assure executing the studies would be of value and the data useful.	2/8/2016 7:27 PM

## Citizen Science: Post-Workshop Survey

3	The next to the last project sounds less than valid, however, a carcass collecting program would not require much structure if enough info were provided to augment valid science, eg, age at length.	2/8/2016 7:00 PM
4	Citizen science should be looked at like a jigsaw puzzle . If there are pieces missing the puzzle is not complete ! Fisherman live it .	2/8/2016 5:44 PM
5	Just what I was hoping you would ask	2/7/2016 1:20 PM
6	Hard to make a determination based on the information alone above.	2/6/2016 8:11 AM
7	i think the last example could be considered citizen science if that project is designed so that multiple stakeholders are able to participate.	2/4/2016 9:45 AM

## Citizen Science: Post-Workshop Survey

### Q4 In your own words and based on what you learned at the workshop, tell us your definition of citizen science.

Answered: 31 Skipped: 2

#	Responses	Date
1	The ability of the public to aid in data collection and share their observations with the scientific community.	2/12/2016 6:27 AM
2	Science (data collection, analysis, etc.) conducted or otherwise intricately involving non-trained scientists and members of the general public.	2/10/2016 3:11 PM
3	Should be a way to help gather a better understanding of our fisheries through collaborative science projects between the fishermen and the researchers.	2/10/2016 8:34 AM
4	Collaboration at many levels between user groups and researchers/regulators to collect, analyze, publish and incorporate scientific data for the purpose of managing, conserving, protecting and harvesting natural resources.	2/9/2016 12:05 PM
5	Citizen science allows participants of the different fishing sectors to bring their experience to the table for comment to see if others are interested in collaborating with gathering useful data for scientific assessments to achieve the best management results for future generations.	2/9/2016 9:38 AM
6	People donating their time and energy to collect useable data.	2/9/2016 9:32 AM
7	Citizen science is the participation of non-professionals in the sciences to provide ideas, collect, or analyze data for purposes of advancing or enhancing the science or management.	2/9/2016 8:53 AM
8	Collection of data needed to answer research questions taken by non-scientists	2/9/2016 8:17 AM
9	Citizen science is a broad term that includes many different types of programs ranging from simple data collection efforts by citizens, following clear guidelines to complex collaborative projects that involve citizens (e.g. fishers) in the design of the questions and data collection systems, implementation, interpretation of the data, and use of the data for decision making	2/8/2016 9:37 PM
10	The utilization of properly trained and oriented citizens for obtaining scientific data actively in the field and under field conditions. Citizen Science is a mechanism to obtain significant and low cost expansion of appropriate execution of scientific studies and data collection under the most diverse conditions obtainable. The studies would be very real time and valid due to the participants having a minimum of preset "scientific bias", since they are not specialists in the field of the science. They will tell and record it like it is with little predication to "research and report" to a desired and pre-desired target end, as often is prevalent with "professional researchers" who are often biased by the hope to obtain results that please the grantors of funds - very common in research done by university researchers.	2/8/2016 7:39 PM
11	Citizen science is a concept of finding ways for constituents and scientists to work together to identify, plan, and design the collection and analysis of data relating to the natural world by members of the general public as part of a collaborative project in concert with scientists.	2/8/2016 7:10 PM
12	My definition doesn't matter much, but I hope it includes anything that allows the general public to input useful data into the system, and that the data is viewed as fair and unbiased by critics and therefore considered useable, rather than anecdotal.	2/8/2016 7:06 PM
13	Citizen science to me means in my world that the Fisher would collect every possible bit of exact information that he can possibly do within his capability during his normal fishing practices .	2/8/2016 5:47 PM

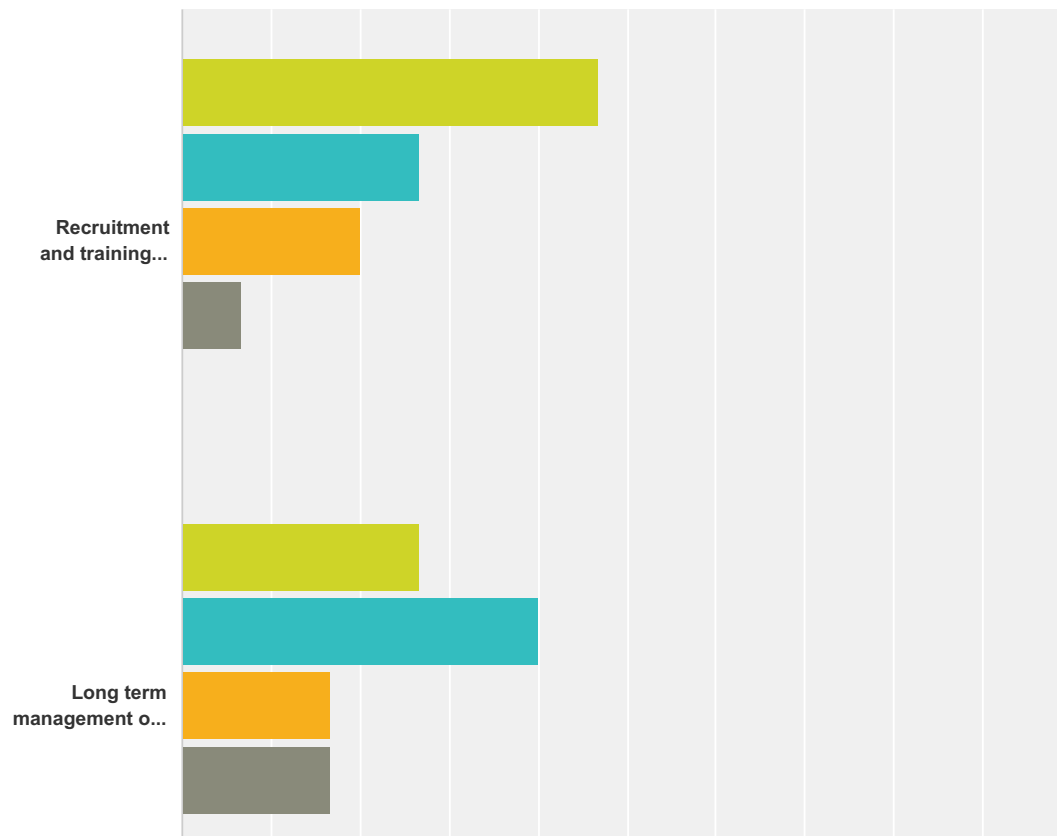


## Citizen Science: Post-Workshop Survey

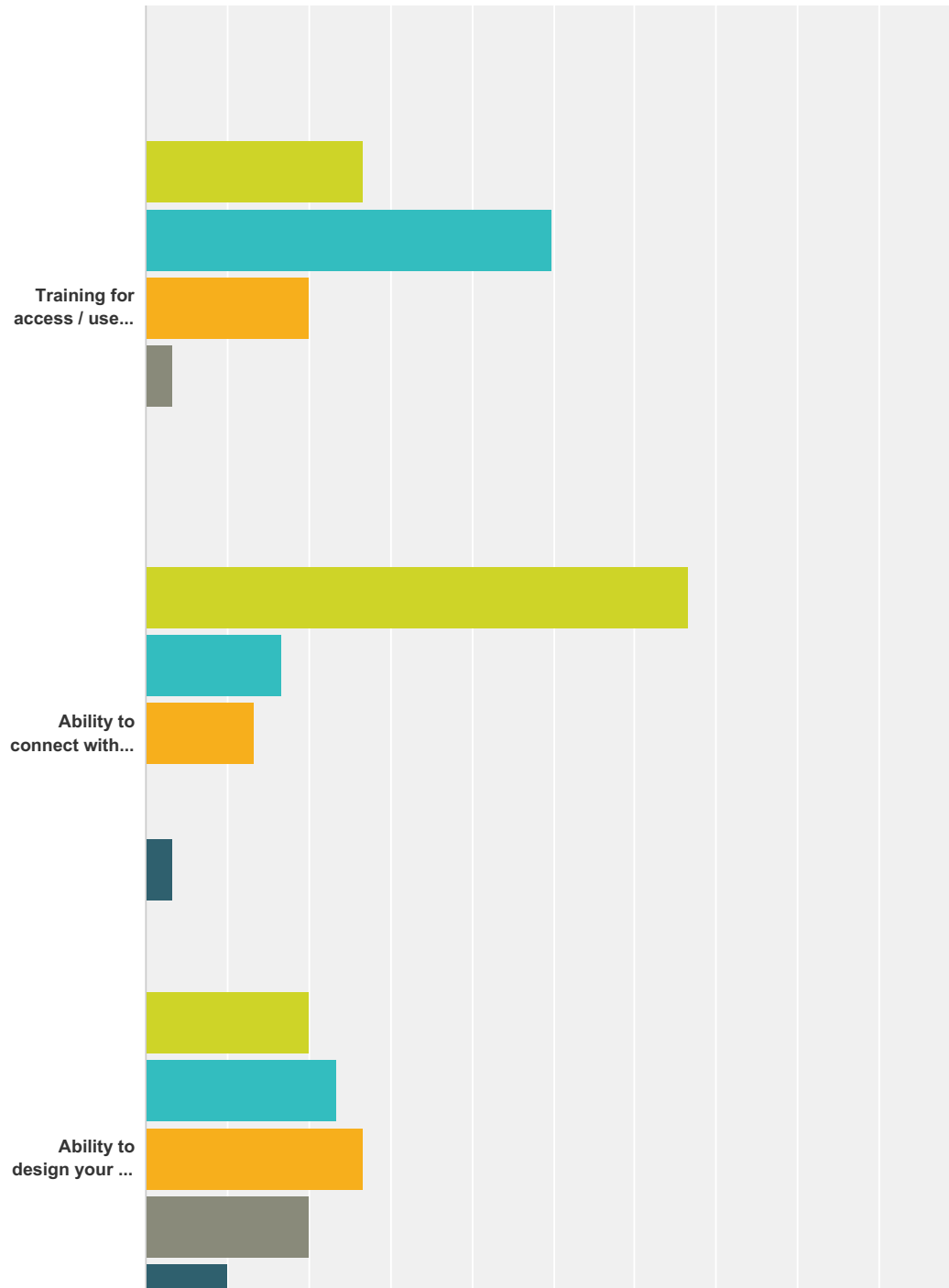
14	My definition of citizen science from what I learned at the workshop is a joint, symbiotic effort by fishermen and scientists with the intent of insuring the health of and accessibility to marine resorses in the future.	2/7/2016 1:32 PM
15	Citizen science is the process by which non-traditional scientists or members of the public acting under the protocols established by scientific principles, work collaboratively with trained scientists to develop, participate in and/or analyze results from research projects.	2/6/2016 8:19 AM
16	Citizens providing scientific data to complement or supplement other forms of data collection	2/5/2016 3:02 PM
17	A partnership between scientists, fishermen and managers with the mutual goal of developing innovative ways to collect and provide infomation that will help to better manage fisheries.	2/4/2016 1:36 PM
18	Increasing the capacity to collect data relative to stock assessments and management in a collaborative and cost effective manner utilizing volunteer commercial and recreational fishermen under a scientifically designed protocol that fosters interaction between scientists and fishermen.	2/4/2016 12:27 PM
19	stakeholders (com/rec fishermen, citizens, divers etc) collecting data in collaboration with researchers to solve/address an issue.	2/4/2016 10:49 AM
20	Citizen science is the voluntary engagement of citizens in the collection of data and information, generally over long periods of time or large geographic areas. Citizen science can range from contributory (submitting info) to participatory (providing input on the project design).	2/4/2016 9:55 AM
21	Public participation with individuals in the science community to collect, analyze or research data	2/3/2016 5:30 PM
22	Participating in an organized project with clearly defined goals and methods to voluntarily collect information for scientists.	2/3/2016 12:21 PM
23	The collection of data by non-scientists, and provision of those data for use in the resource management process.	2/2/2016 12:57 PM
24	The participation of nonscientists in the process of gathering data under scientific guidance	2/2/2016 12:31 PM
25	Non-profit work initiated or conducted by citizens while following all steps of a rigorous scientific process.	2/2/2016 11:19 AM
26	Citizen Science is the practice of engaging the public in the collection of scientific data.	2/2/2016 10:27 AM
27	The oppportunity for non-scientists to participate in the scientific process	2/2/2016 10:27 AM
28	Working with fishermen and other stakeholders on the water to design methods and to collect data that is useful to management and researchers.	2/2/2016 10:12 AM
29	An endeavor in which members of the public participate in the collection of data they collect themselves, or analyze data collected by others.	2/2/2016 10:09 AM
30	Crowd-sourcing data collection and analysis activities to nonprofessional scientists.	2/2/2016 10:02 AM
31	Citizen science is when a member of the public voluntarily participates in an activity which furthers the base of publicly available knowledge on any given subject.	2/2/2016 9:58 AM

**Q5 Based on your current role in South Atlantic fisheries (fisherman, scientist, manager, extension agent, etc.), tell us how important each of the components are to you personally and your participation in a citizen science program. Use the columns to rank components that are important to you personally on a scale of 1 to 5, with 1 being most important and 5 being least important.**

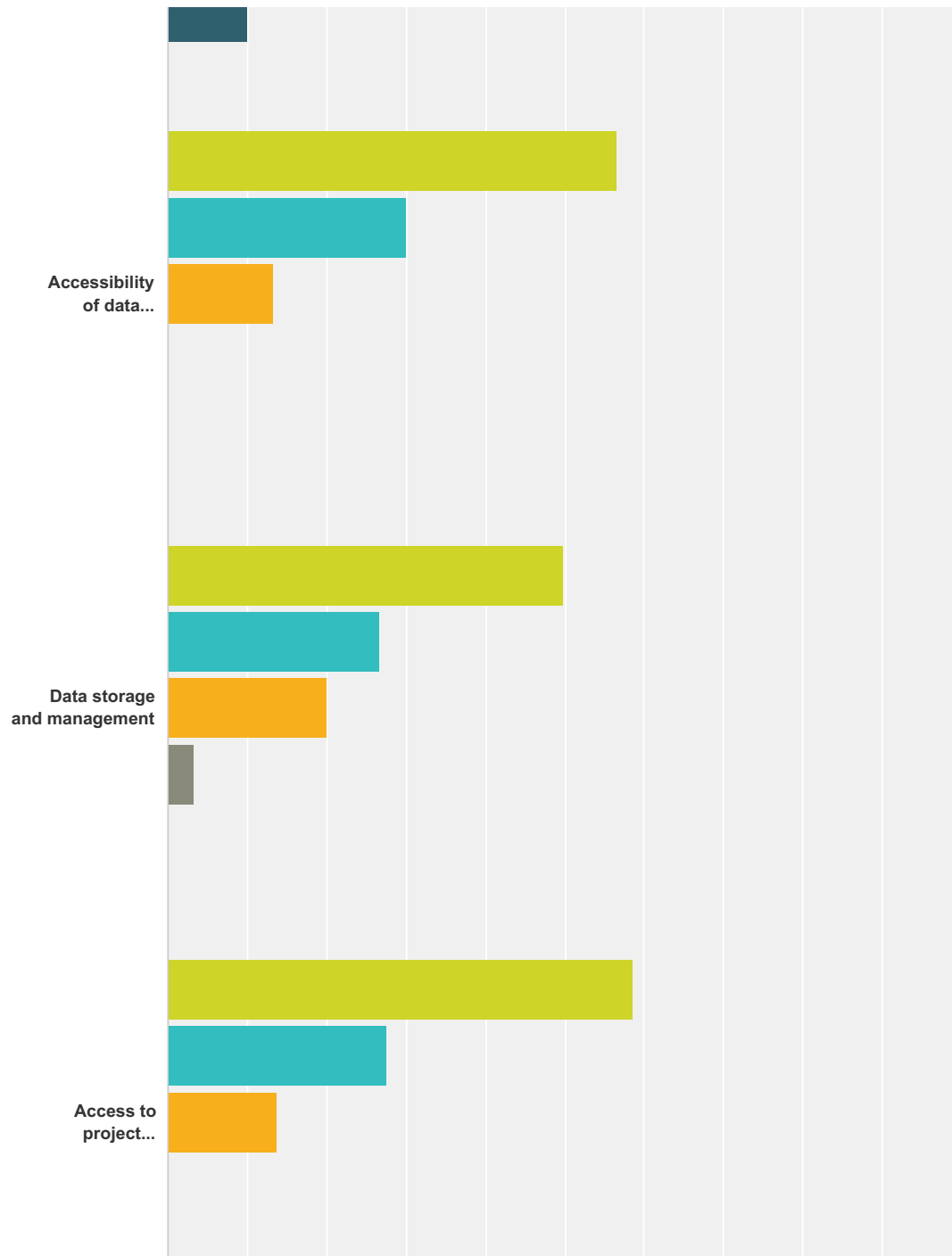
Answered: 30 Skipped: 3



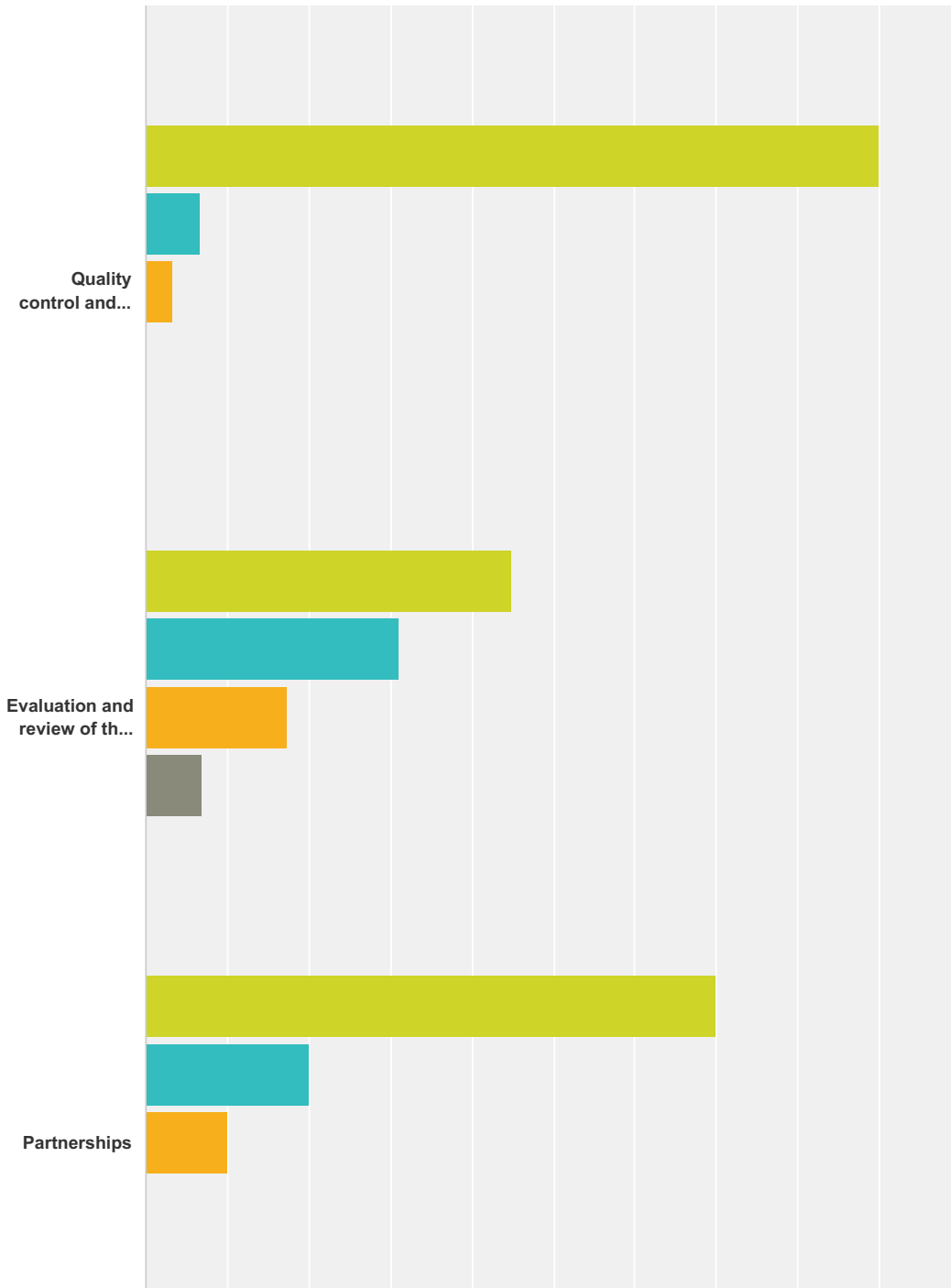
# Citizen Science: Post-Workshop Survey



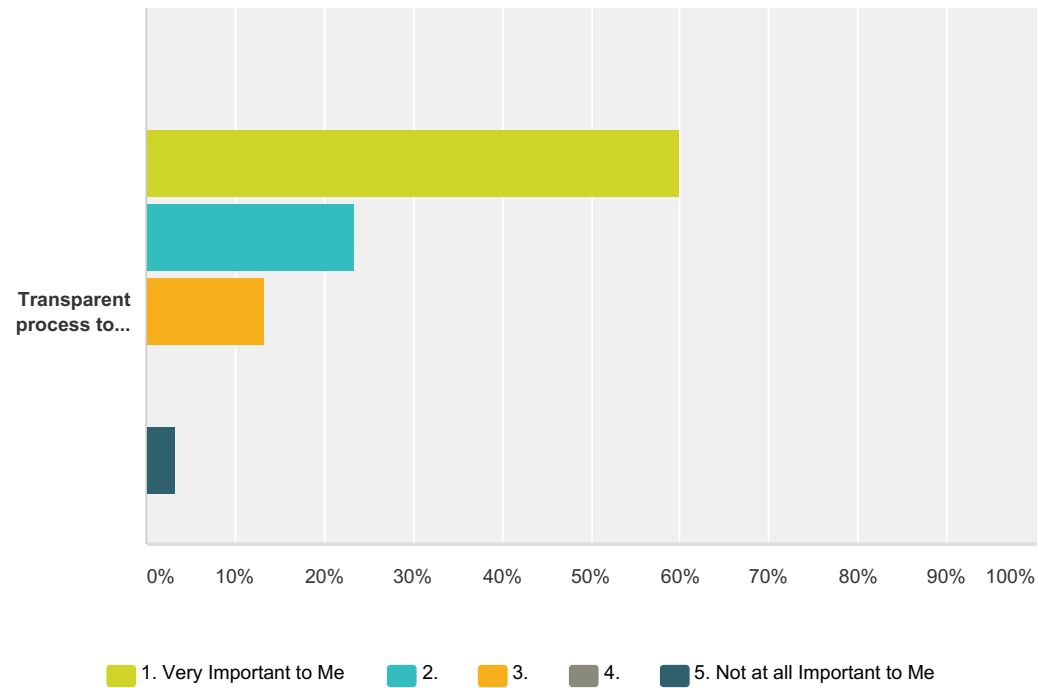
# Citizen Science: Post-Workshop Survey



# Citizen Science: Post-Workshop Survey



## Citizen Science: Post-Workshop Survey



	1. Very Important to Me	2.	3.	4.	5. Not at all Important to Me	Total Respondents
Recruitment and training of volunteers	46.67% 14	26.67% 8	20.00% 6	6.67% 2	0.00% 0	30
Long term management of volunteers	26.67% 8	40.00% 12	16.67% 5	16.67% 5	0.00% 0	30
Training for access / use of data	26.67% 8	50.00% 15	20.00% 6	3.33% 1	0.00% 0	30
Ability to connect with scientists who have a project and need participants to collect data	66.67% 20	16.67% 5	13.33% 4	0.00% 0	3.33% 1	30
Ability to design your own project	20.00% 6	23.33% 7	26.67% 8	20.00% 6	10.00% 3	30
Accessibility of data collected	56.67% 17	30.00% 9	13.33% 4	0.00% 0	0.00% 0	30
Data storage and management	50.00% 15	26.67% 8	20.00% 6	3.33% 1	0.00% 0	30

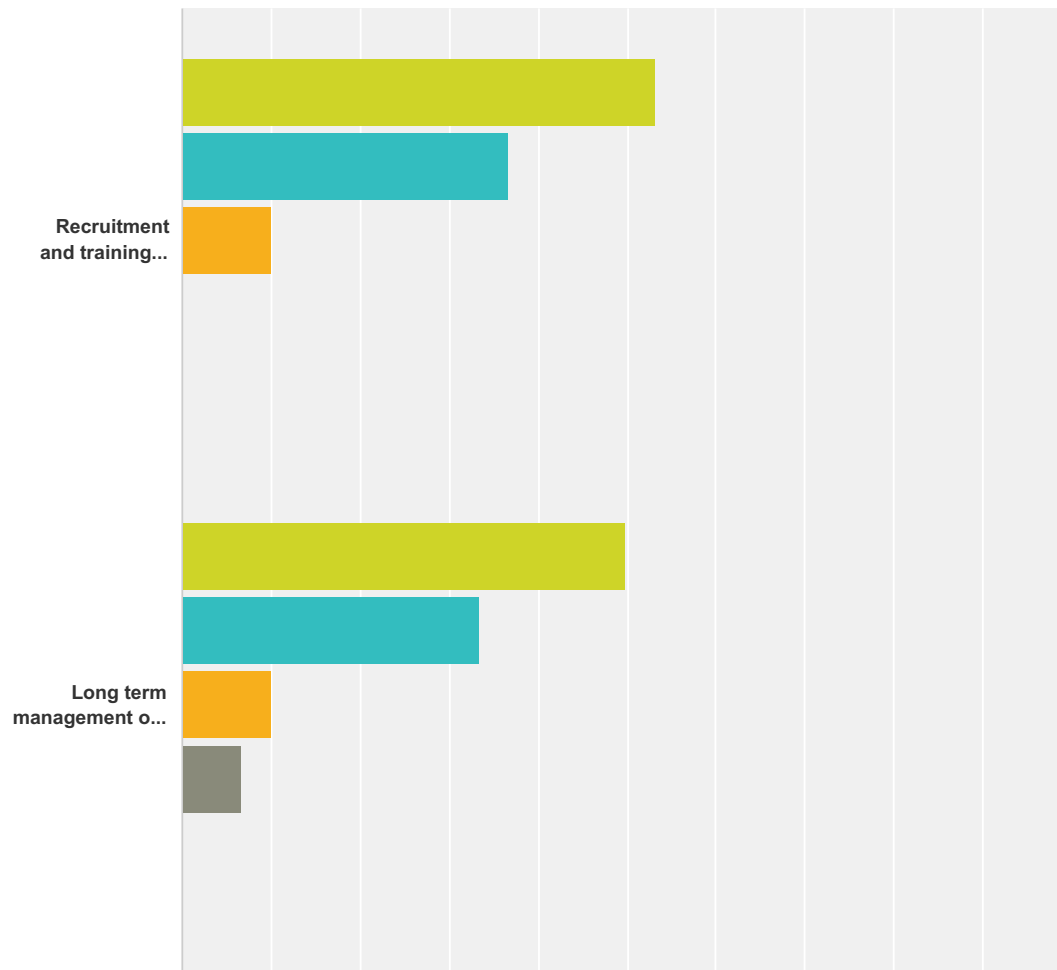
## Citizen Science: Post-Workshop Survey

Access to project progress and final reports	<b>58.62%</b> 17	<b>27.59%</b> 8	<b>13.79%</b> 4	<b>0.00%</b> 0	<b>0.00%</b> 0	29
Quality control and assurance of the data collected	<b>90.00%</b> 27	<b>6.67%</b> 2	<b>3.33%</b> 1	<b>0.00%</b> 0	<b>0.00%</b> 0	30
Evaluation and review of the program	<b>44.83%</b> 13	<b>31.03%</b> 9	<b>17.24%</b> 5	<b>6.90%</b> 2	<b>0.00%</b> 0	29
Partnerships	<b>70.00%</b> 21	<b>20.00%</b> 6	<b>10.00%</b> 3	<b>0.00%</b> 0	<b>0.00%</b> 0	30
Transparent process to select projects for the program	<b>60.00%</b> 18	<b>23.33%</b> 7	<b>13.33%</b> 4	<b>0.00%</b> 0	<b>3.33%</b> 1	30

#	Please add any other additional thoughts on the components above and their importance to you and your participation in a citizen science program.	Date
1	All are important.	2/9/2016 9:32 AM
2	In general, the most important factors of citizen science to me are developing and maintaining relationships with "citizens" while producing sound science. Whatever needs to go into that is important to me.	2/9/2016 8:56 AM
3	A live and in person wrap up and review of the project and the results after the study is considered completed.	2/8/2016 7:42 PM
4	1) Ownership, 2) Need or valid applicability to on-going or new research,	2/8/2016 7:16 PM
5	Collaborative process, Fosters dialogue and two way learning opportunities between scientists and fishermen, Creates educational opportunities on the science used in management, fosters stewardship of our waters, habitat and natural resources	2/4/2016 12:32 PM

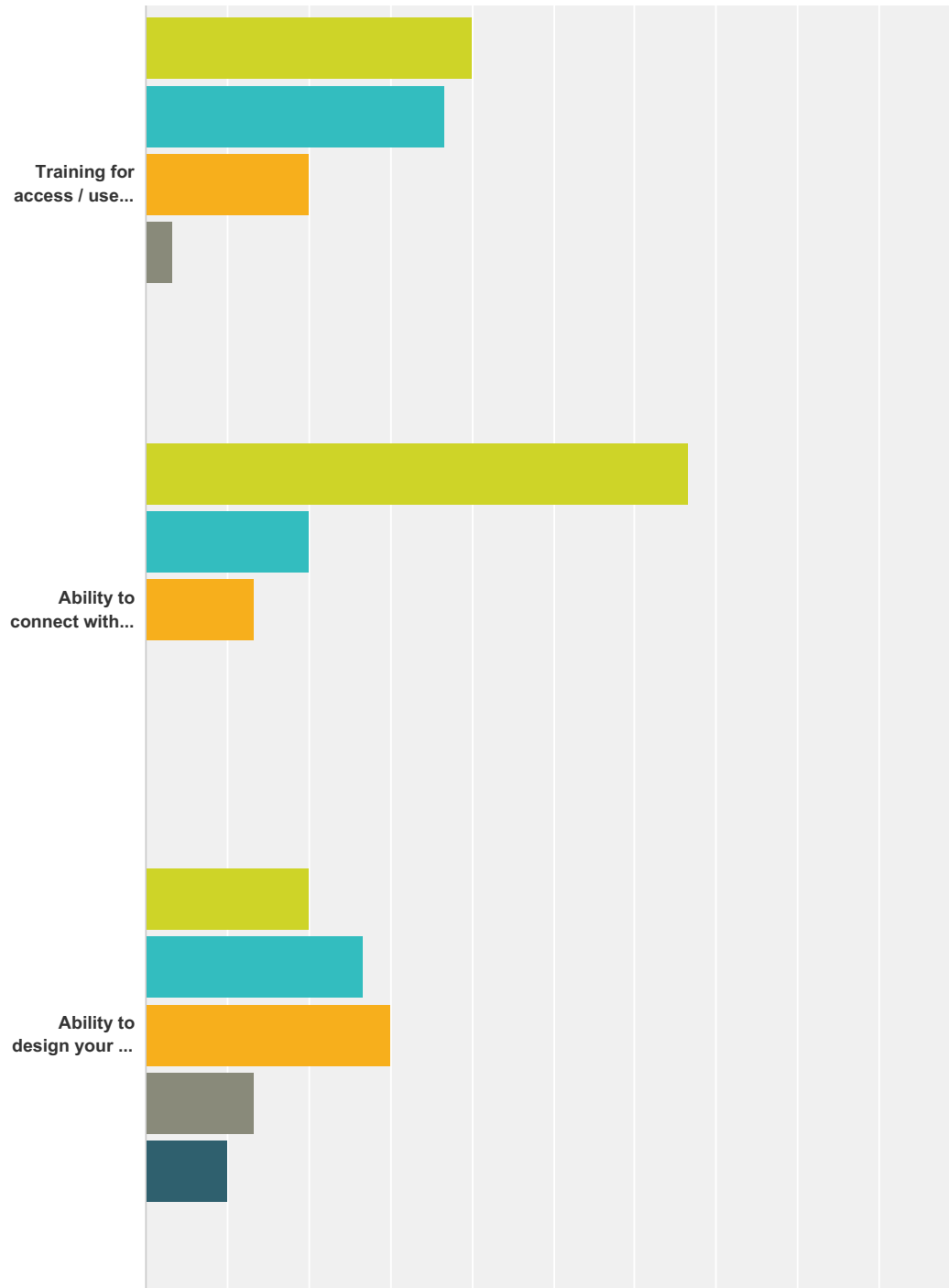
**Q6 Based on what you learned at the workshop, tell us how important each of the components are to a citizen science program. Use the columns to rank components that are important to a PROGRAM on a scale of 1 to 5, with 1 being most important and 5 being least important.**

Answered: 30 Skipped: 3

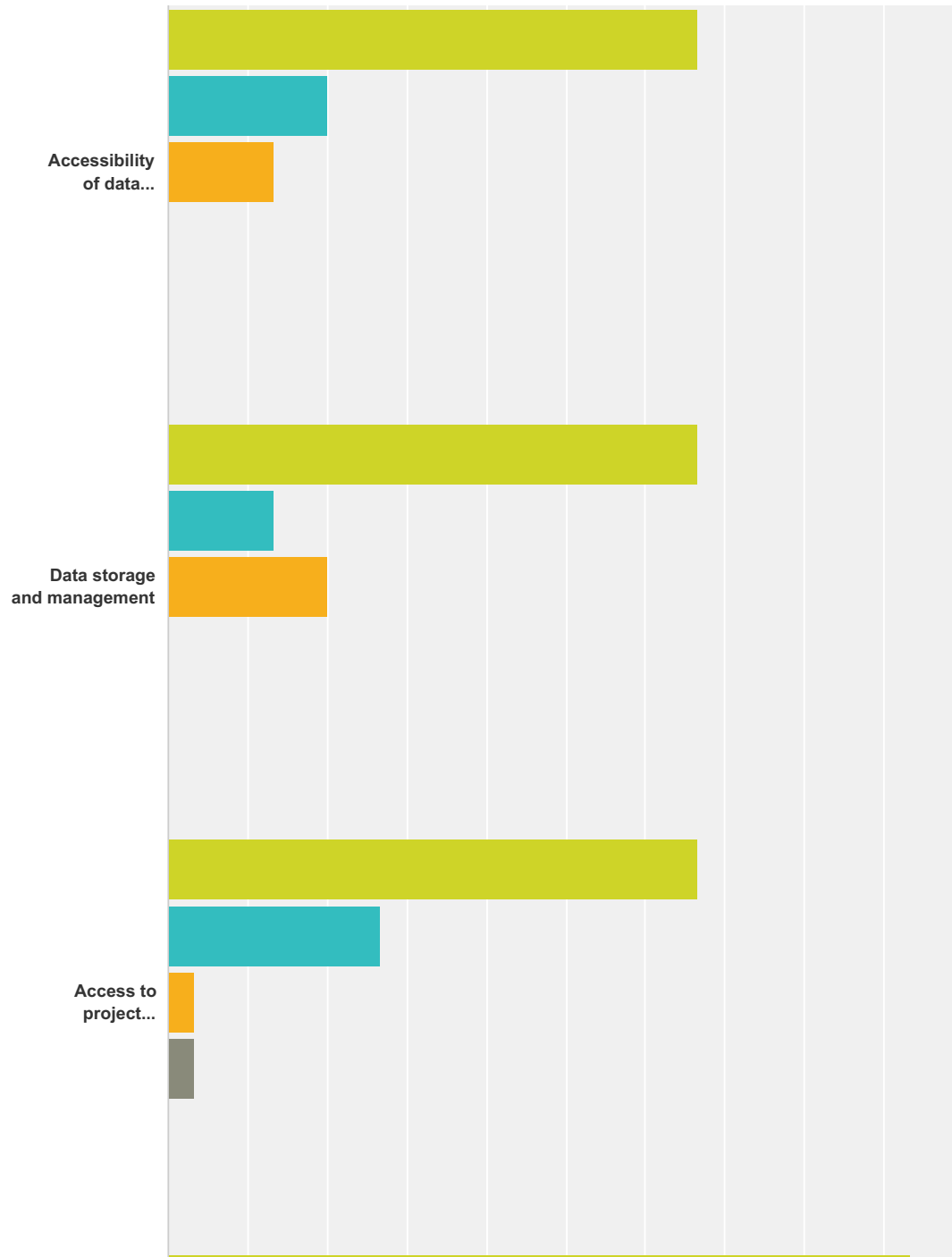




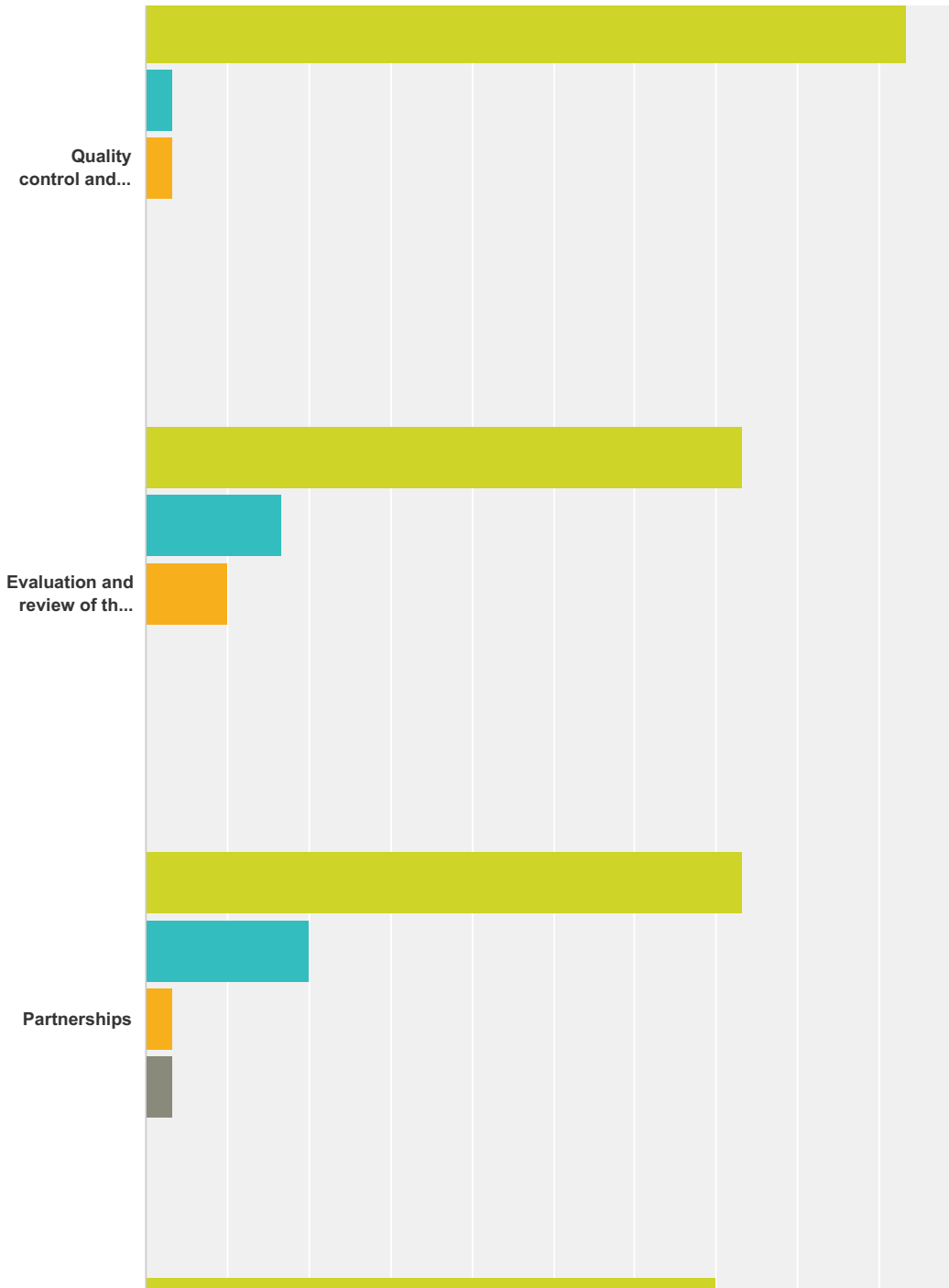
# Citizen Science: Post-Workshop Survey



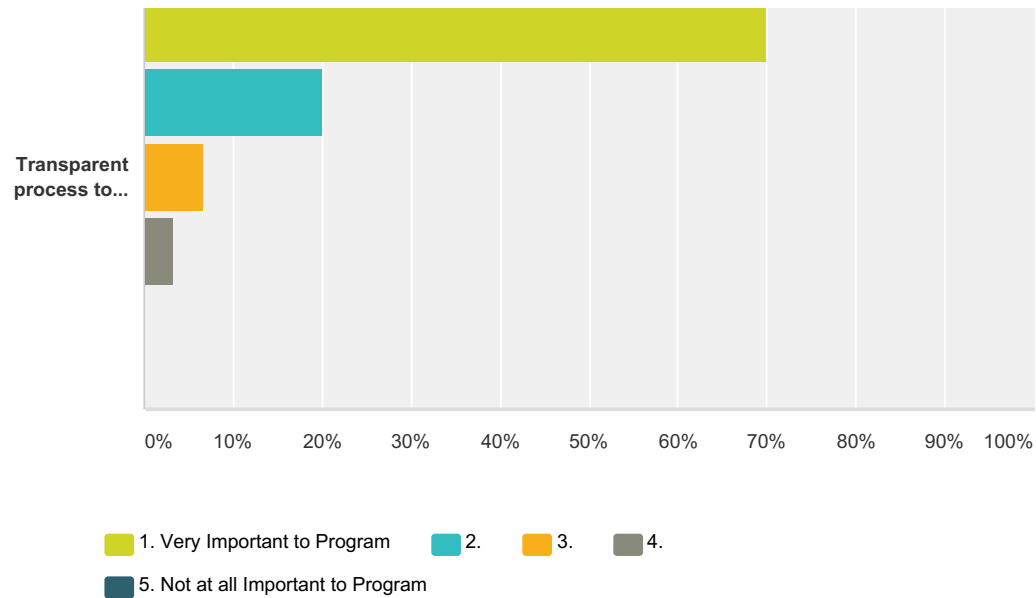
# Citizen Science: Post-Workshop Survey



# Citizen Science: Post-Workshop Survey



## Citizen Science: Post-Workshop Survey



	1. Very Important to Program	2.	3.	4.	5. Not at all Important to Program	Total Respondents
Recruitment and training of volunteers	53.33% 16	36.67% 11	10.00% 3	0.00% 0	0.00% 0	30
Long term management of volunteers	50.00% 15	33.33% 10	10.00% 3	6.67% 2	0.00% 0	30
Training for access / use of data	40.00% 12	36.67% 11	20.00% 6	3.33% 1	0.00% 0	30
Ability to connect with scientists who have a project and need participants to collect data	66.67% 20	20.00% 6	13.33% 4	0.00% 0	0.00% 0	30
Ability to design your own project	20.00% 6	26.67% 8	30.00% 9	13.33% 4	10.00% 3	30
Accessibility of data collected	66.67% 20	20.00% 6	13.33% 4	0.00% 0	0.00% 0	30
Data storage and management	66.67% 20	13.33% 4	20.00% 6	0.00% 0	0.00% 0	30
Access to project progress and final reports	66.67% 20	26.67% 8	3.33% 1	3.33% 1	0.00% 0	30

## Citizen Science: Post-Workshop Survey

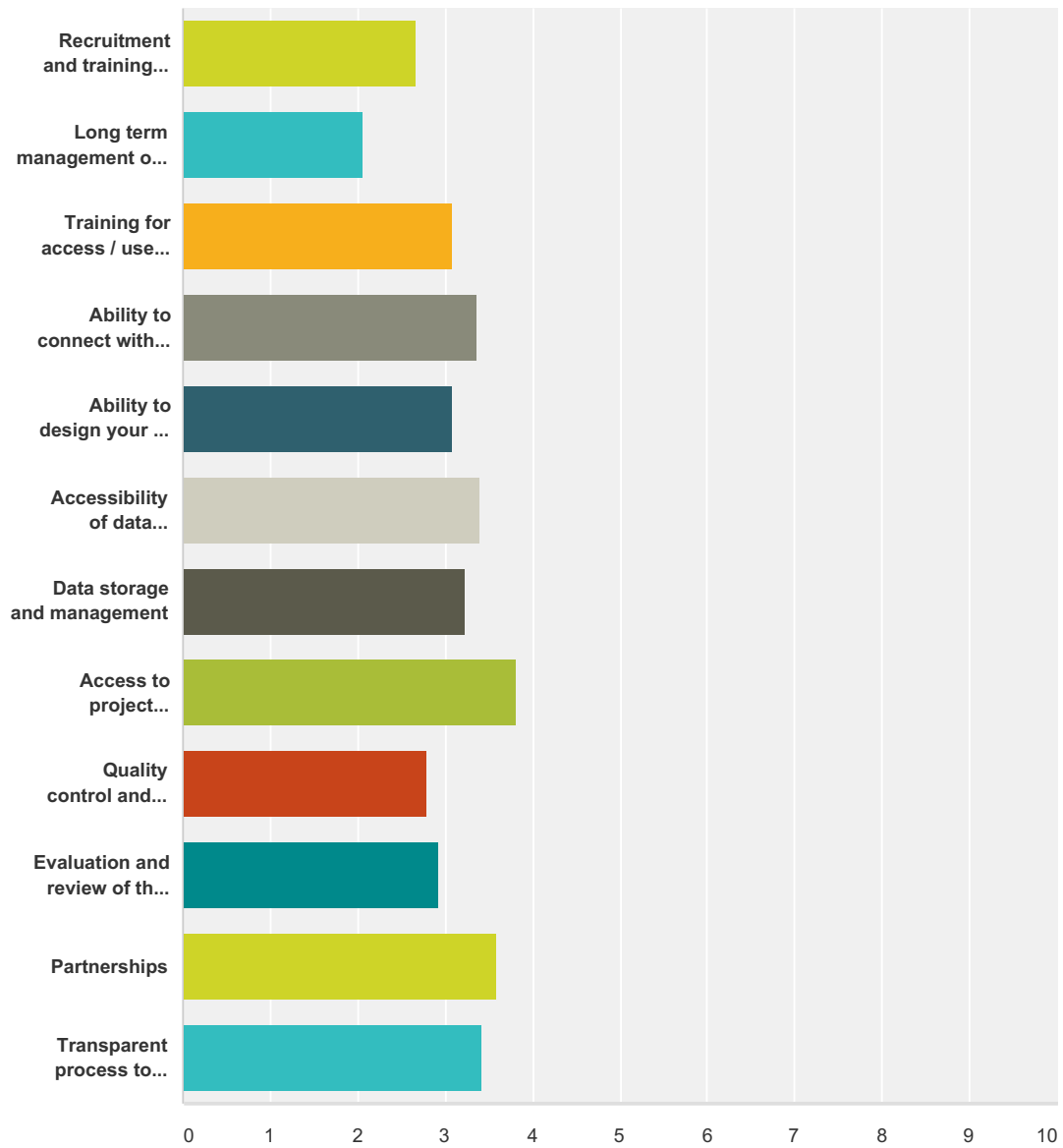
Quality control and assurance of the data collected	<b>93.33%</b> 28	<b>3.33%</b> 1	<b>3.33%</b> 1	<b>0.00%</b> 0	<b>0.00%</b> 0	30
Evaluation and review of the program	<b>73.33%</b> 22	<b>16.67%</b> 5	<b>10.00%</b> 3	<b>0.00%</b> 0	<b>0.00%</b> 0	30
Partnerships	<b>73.33%</b> 22	<b>20.00%</b> 6	<b>3.33%</b> 1	<b>3.33%</b> 1	<b>0.00%</b> 0	30
Transparent process to select projects for the program	<b>70.00%</b> 21	<b>20.00%</b> 6	<b>6.67%</b> 2	<b>3.33%</b> 1	<b>0.00%</b> 0	30

#	Please add any other additional thoughts on the components above and their importance to a citizen science program.	Date
1	All are imprtant, how important varies by opinion.	2/9/2016 9:34 AM
2	Collaboratory process	2/4/2016 12:34 PM
3	Citizen science projects can.are done on any scale with very little forethought- but these components are necessary for a successful program	2/2/2016 10:29 AM

**Q7 Based on what you learned at the workshop, what components do you think will be most CHALLENGING (e.g. the most difficult) in the design of a citizen science program? Rank each component on a scale of 1 to 5, with 1 being most challenging and 5 being least challenging.**

Answered: 30 Skipped: 3

### Citizen Science: Post-Workshop Survey



	1. Very Challenging to Me	2.	3.	4.	5. Not at all Challenging to Me	Total	Weighted Average

## Citizen Science: Post-Workshop Survey

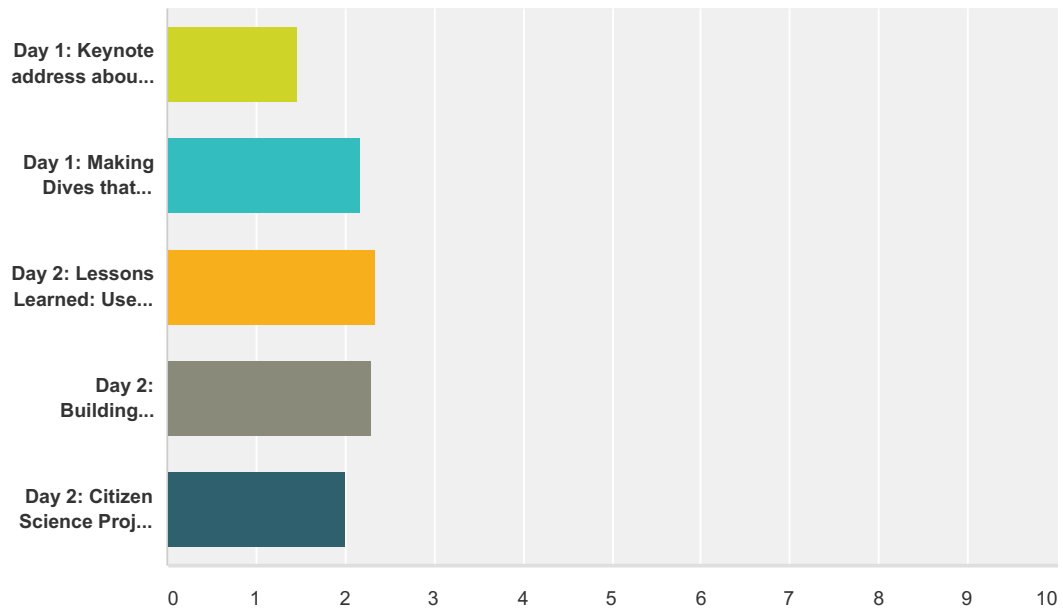
Recruitment and training of volunteers	16.67% 5	33.33% 10	23.33% 7	20.00% 6	6.67% 2	30	2.67
Long term management of volunteers	43.33% 13	23.33% 7	20.00% 6	10.00% 3	3.33% 1	30	2.07
Training for access / use of data	3.33% 1	20.00% 6	46.67% 14	23.33% 7	6.67% 2	30	3.10
Ability to connect with scientists who have a project and need participants to collect data	10.00% 3	16.67% 5	20.00% 6	33.33% 10	20.00% 6	30	3.37
Ability to design your own project	13.33% 4	16.67% 5	33.33% 10	20.00% 6	16.67% 5	30	3.10
Accessibility of data collected	6.67% 2	10.00% 3	33.33% 10	36.67% 11	13.33% 4	30	3.40
Data storage and management	6.67% 2	23.33% 7	23.33% 7	33.33% 10	13.33% 4	30	3.23
Access to project progress and final reports	0.00% 0	3.33% 1	33.33% 10	40.00% 12	23.33% 7	30	3.83
Quality control and assurance of the data collected	23.33% 7	20.00% 6	26.67% 8	13.33% 4	16.67% 5	30	2.80
Evaluation and review of the program	0.00% 0	36.67% 11	40.00% 12	16.67% 5	6.67% 2	30	2.93
Partnerships	3.33% 1	6.67% 2	36.67% 11	33.33% 10	20.00% 6	30	3.60
Transparent process to select projects for program	0.00% 0	20.00% 6	36.67% 11	23.33% 7	20.00% 6	30	3.43

#	If there are components not included above, please list below.	Date
1	Developing ownerships (very difficult)	2/8/2016 7:19 PM
2	This may be inherently incorporated in "long term management of volunteers" but communication with volunteers, project managers and scientists is essential	2/2/2016 10:31 AM



**Q8 The workshop consisted of invited speakers presentations, breakout group exercises, and plenary sessions. Please let us know how valuable the INVITED SPEAKERS AND PRESENTATIONS were to you and your understanding of citizen science.**

Answered: 30 Skipped: 3



	1. Was tremendously valuable to me	2.	3.	4.	5. Did not provide value to me	Did not participate in this session.	Total	Weighted Average
Day 1: Keynote address about What is Citizen Science - Rick Bonney, Cornell Lab of Ornithology	70.00% 21	23.33% 7	3.33% 1	0.00% 0	0.00% 0	3.33% 1	30	1.47
Day 1: Making Dives that Count - Ocean Citizen Science Monitoring: REEF Volunteer Fish Survey Project - Christy Semmens, REEF	30.00% 9	40.00% 12	16.67% 5	10.00% 3	3.33% 1	0.00% 0	30	2.17

## Citizen Science: Post-Workshop Survey

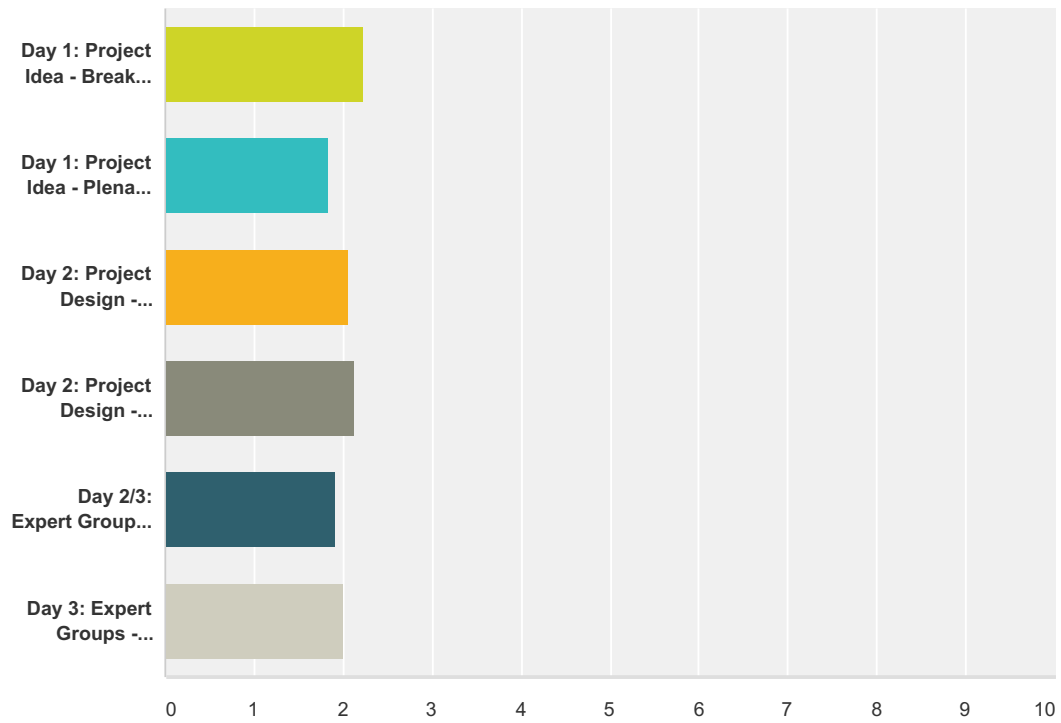
Day 2: Lessons Learned: Use of text message reporting to quantify catch and effort at NC king mackerel tournaments - Scott Baker, North Carolina Sea Grant	<b>33.33%</b> 10	<b>26.67%</b> 8	<b>26.67%</b> 8	<b>6.67%</b> 2	<b>0.00%</b> 0	<b>6.67%</b> 2	30	2.33
Day 2: Building Partnerships for Success: A collaboration to design a solution to safely release fishes that experience barotrauma - Sara Mirabilio, North Carolina Sea Grant	<b>43.33%</b> 13	<b>13.33%</b> 4	<b>26.67%</b> 8	<b>10.00%</b> 3	<b>0.00%</b> 0	<b>6.67%</b> 2	30	2.30
Day 2: Citizen Science Project Design - Jennifer Shirk, Cornell Lab of Ornithology/Citizen Science Association	<b>50.00%</b> 15	<b>26.67%</b> 8	<b>10.00%</b> 3	<b>6.67%</b> 2	<b>0.00%</b> 0	<b>6.67%</b> 2	30	2.00

#	Please provide any additional feedback on any of the invited speakers and presentations and their value to your understanding of citizen science.	Date
1	These presentations provided valuable information on the scope of projects that were successful using citizen science and enlightened me as to the caution that needs to be taken in development of a project so that the data can be useful.	2/9/2016 9:00 AM
2	They all did a fairly nice job and I found the topics and ensuing discussions of intellectual interest and value.	2/8/2016 7:48 PM
3	Rick was outstanding and entertaining. Jennifer was probably the best presenter I have ever had the pleasure to hear. She was remarkable	2/8/2016 7:21 PM
4	Unfortunately I don't remember these exact presentations To make a comment .	2/8/2016 5:58 PM
5	The Cornell speakers did a great job. I wish that we had more (any?) examples of SciCit where competitive, conflicting, or consumptive use of natural resources is involved (ex., hunting).	2/6/2016 8:28 AM
6	Each presenter was very helpful from their perspective in presenting a better understanding of what CS is about, how it can be used, that there are resources and supporting infrastructure required for a successful project and some of the problems that can arise in different projects	2/4/2016 12:47 PM
7	Each of the speakers addressed different and important challenges and design elements of citizen science, which was great.	2/4/2016 10:01 AM

**Q9 The workshop consisted of invited speakers presentations, breakout group exercises, and plenary sessions. Please let us know how valuable each of the BREAKOUT GROUP SESSIONS AND PLENARY SESSIONS were to you and your understanding of citizen science. Reminder - There were three sessions during the workshop that used breakout groups and plenary discussions:- PROJECT IDEA session was the part of the workshop where participants brainstormed in small groups and discussed with the group at large about citizen science topics and approaches for the South Atlantic.- PROJECT DESIGN session was the part of the workshop where participants took a sample project and designed the project using the 5 components of citizen science project design.- EXPERT GROUPS session was the part of the workshop where participants were assigned to a specific expert group area to develop recommendations for a South Atlantic citizen science program. Expert groups consisted of Participants, Researchers, Communication, Science Standards, Data Management, and Governance.**

Answered: 30 Skipped: 3

### Citizen Science: Post-Workshop Survey



	1. Was tremendously valuable to me	2.	3.	4.	5. Did not provide value to me	Did not participate in this session.	Total	Weighted Average
Day 1: Project Idea - Breakout Session	33.33% 10	33.33% 10	23.33% 7	3.33% 1	0.00% 0	6.67% 2	30	2.23
Day 1: Project Idea - Plenary Session	46.67% 14	40.00% 12	3.33% 1	6.67% 2	0.00% 0	3.33% 1	30	1.83
Day 2: Project Design - Breakout Group Session	40.00% 12	26.67% 8	26.67% 8	3.33% 1	0.00% 0	3.33% 1	30	2.07
Day 2: Project Design - Plenary Session	40.00% 12	23.33% 7	26.67% 8	6.67% 2	0.00% 0	3.33% 1	30	2.13
Day 2/3: Expert Groups - Breakout Session	46.67% 14	33.33% 10	6.67% 2	10.00% 3	0.00% 0	3.33% 1	30	1.93
Day 3: Expert Groups - Plenary Session	50.00% 15	26.67% 8	10.00% 3	6.67% 2	0.00% 0	6.67% 2	30	2.00

## Citizen Science: Post-Workshop Survey

#	Please provide comments on why or why not the breakout group and plenary sessions were of value to your understanding of citizen science.	Date
1	The breakout session in terms of project design was the most eye-opening, because it highlighted the need for good communication. There were nuances within the topic in our group, which led to talking around in circles quite a bit as members with different backgrounds viewed the problem differently and so were trying to come up with solutions to slightly different goals, thus muddying up the process. It is very important to understand where your collaborators are coming from and to explicitly state the goals and how those results will be used.	2/9/2016 9:04 AM
2	I've been immersed in this stuff for years. These sessions were not designed to be valuable for me.	2/8/2016 9:42 PM
3	The project idea session was not as good as it could be due to some over dominance in speaking by a very few individuals, upon which I felt some things were not pertinent. I found myself a little impatient to just "move on with it". A little also happened at the Expert Group session, though not nearly as bad. That group stayed more on point.	2/8/2016 7:56 PM
4	Had some odd individuals in my project design group	2/8/2016 7:22 PM
5	Project Idea Breakout: It was clear that in my group members were having a hard time focusing on CS projects and their understanding of CS in a general sense. That changed dramatically as the workshop progressed.	2/4/2016 12:53 PM
6	It was incredibly valuable to see how similarly many of the breakout groups were thinking, whether that was in regards to project ideas, project design, or even the expert groups, despite the fact that they were focused on different topics. The project design breakout was very enlightening, in that the project ideas we were tackling were quite broad, and (at least in my group), if folks had tried to focus the question a bit more (e.g., we want to know how many fish XX you are throwing back and why?) instead of trying to tackle the entire topic at once, they may have found it more productive.	2/4/2016 10:09 AM
7	I think the order of the sessions got in the way of their success as the project design session got too wrapped up in the specific "project idea" and less on what it takes to develop a citizen science project.	2/2/2016 10:36 AM
8	I feel that many participants were still unsure of what citizen science was during the initial project idea breakout. By the next breakout, I felt everyone was on board.	2/2/2016 10:09 AM

## Citizen Science: Post-Workshop Survey

### Q10 What did you like about the sessions you participated in at the workshop?

Answered: 30 Skipped: 3

#	Responses	Date
1	The exchange of ideas from stakeholders, scientists and managers.	2/12/2016 6:38 AM
2	I liked learning about the true expanse of citizen science options and everyone realizing the importance of making sure we are speaking each other's language.	2/10/2016 3:55 PM
3	I really liked the enthusiasm and willingness between fishermen and scientist to want to work together to resolve past conflicts and issues	2/10/2016 8:44 AM
4	The fact that the SAFMC is so willing to engage with user groups to benefit resource management	2/9/2016 12:11 PM
5	The variety of discussions that identified key data that needs to be gathered and used.	2/9/2016 9:43 AM
6	They were interesting with the different disciplines.	2/9/2016 9:39 AM
7	Interacting with non-science people to better understand where they are coming from and to try to convey the science end as well.	2/9/2016 9:07 AM
8	Collaboration within the group and discussion	2/9/2016 8:20 AM
9	excellent and broad participation	2/8/2016 9:43 PM
10	Interacting with many people. I learned a lot.	2/8/2016 7:58 PM
11	The excitement and sense of shared contribution	2/8/2016 7:24 PM
12	What I liked about this session was that for so many years as a commercial fisherman I have been screaming to have more fishery dependent data available and finally managers and scientist are starting to see just how important fisherman can really be .	2/8/2016 6:18 PM
13	I Felt my input was valued in a meaningful way in the small groups	2/7/2016 1:55 PM
14	John and Amber did a great job MCing and moderating the plenary discussions. CitSci is a very big and complicated topic and I think the sessions reinforced that.	2/6/2016 8:35 AM
15	Integrated people from different groups (stakeholders, scientists, managers). Great discussion and prioritization of topics and methods. Excellent group of experts and very well facilitated sessions.	2/5/2016 3:09 PM
16	Good communications and the flow of ideas. There seemed to be a mutual goal to explore the possibilities of citizen science in a positive way.	2/4/2016 1:36 PM
17	Meeting new people with similar goals for CS. Seeing the progress and understanding as the workshop progressed. Observing the broad based support from a variety of disciplines.	2/4/2016 12:57 PM
18	Networking and sensing this topic is something people are interested in making happen	2/4/2016 10:54 AM
19	Everyone spoke up and participated!	2/4/2016 10:10 AM

## Citizen Science: Post-Workshop Survey

20	The collaboration with my peers.	2/3/2016 5:39 PM
21	seeing collaborative efforts from different parties.	2/3/2016 12:27 PM
22	Knowledgeable and broad-ranging (in terms of areas of expertise) participants.	2/2/2016 1:03 PM
23	Interesting to see how the discussions continue to evolve after the breakouts and the systematic progression of the workshop	2/2/2016 12:36 PM
24	Diverse points of view being brought together.	2/2/2016 11:25 AM
25	Having the Ornithology lab there was a fantastic idea. Their experience, expertise and input into this process helps to validate a fisheries program. The planners also did a great job with the breakout sessions making sure that groups were always mixed. This encouraged participation and helped to capture every stakeholder sectors' POV.	2/2/2016 10:41 AM
26	There were some good ideas and solutions brought about.	2/2/2016 10:37 AM
27	Everyone participated and most were looking forward to collaboration with researchers to find better answers to fishery questions.	2/2/2016 10:20 AM
28	I thought it was incredibly well planned and exceedingly enjoyable that the membership of the groups changed throughout the workshop. Excellent idea!	2/2/2016 10:19 AM
29	The expert group sessions provided an opportunity to learn from others in your field. The other sessions allowed me the opportunity to see how other people in different fields reacted to proposals.	2/2/2016 10:14 AM
30	Good cross-section of folks from different sectors.	2/2/2016 10:07 AM

Citizen Science: Post-Workshop Survey

**Q11 What did you dislike about the sessions you participated in at the workshop and what would you want to change for future workshops?**

Answered: 30 Skipped: 3

#	Responses	Date
1	I liked everything. Maybe more of top down wants and needs from managers and scientists.	2/12/2016 6:38 AM
2	None, job well done!	2/10/2016 3:55 PM
3	Nothing i thought it was well executed!	2/10/2016 8:44 AM
4	Groups were a little too large for good interaction	2/9/2016 12:11 PM
5	The small coffee cups to carry to remote places.	2/9/2016 9:43 AM
6	I didn't dislike any of them.	2/9/2016 9:39 AM
7	Some of the presentations were longer than they needed to be and did not convey as much relevant content.	2/9/2016 9:07 AM
8	None	2/9/2016 8:20 AM
9	nothing. It was great.	2/8/2016 9:43 PM
10	The only suggestion to make things a little better would be for staff to be more comfortable and quicker to "police" participants who stray off point or talk to much out of turn.	2/8/2016 7:58 PM
11	I would screen for odd people	2/8/2016 7:24 PM
12	Well thought out	2/8/2016 6:18 PM
13	On some points I felt a disconnect in communication do to scientific thought processes verses those of a laymen	2/7/2016 1:55 PM
14	Would have liked to have a seen a summary of research needs taken from the assessments, etc. This could have been a good ending to the workshop - something to let people think on when they leave.	2/6/2016 8:35 AM
15	2 1/2 days was a bit too long	2/5/2016 3:09 PM
16	Certain people had a tendency to dominate the session when more opinions should have been heard	2/4/2016 1:36 PM
17	Nothing! It exceeded all of my expectations!	2/4/2016 12:57 PM
18	Seemed to drag out a bit after the 2nd day	2/4/2016 10:54 AM
19	i didn't dislike anything...	2/4/2016 10:10 AM
20	Unbalanced represenitives in first break out session	2/3/2016 5:39 PM



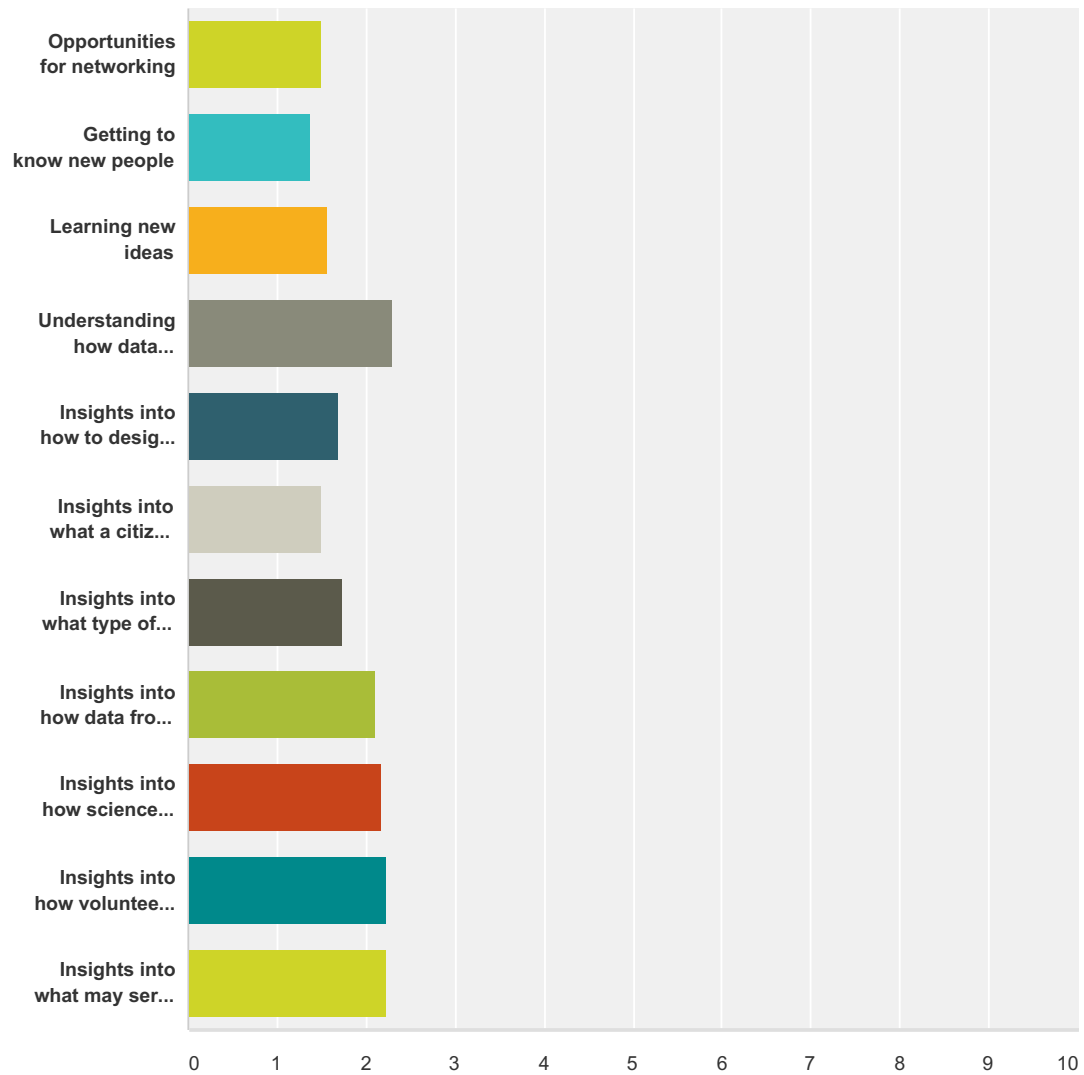
### Citizen Science: Post-Workshop Survey

21	seeing how slowly the process will take, certainly this is expected and can't be changed- completely understandable.	2/3/2016 12:27 PM
22	N/A	2/2/2016 1:03 PM
23	Without strong direction/guidance from group leaders, it would be very easy to get lost in the weeds.	2/2/2016 12:36 PM
24	Goals of workshop were not very well defined.	2/2/2016 11:25 AM
25	There was very little that I would change. Mostly it was basic meeting management things- some of the breaks were too long, keeping on schedule, etc. The expert panel plenary should have been kept to 10 minutes/group. This would have forced the novel ideas to be reported out and eliminated the redundancy that we heard.	2/2/2016 10:41 AM
26	I have never liked break out groups and flip charts. I would prefer that they are not done at any meetings.	2/2/2016 10:37 AM
27	I did hear one or two comments that at times group participants dominated the discussion with their thoughts	2/2/2016 10:20 AM
28	I would not recommend a single change. There was nothing about the sessions that I did not like.	2/2/2016 10:19 AM
29	There was a bit of confusion during the second session about what our actual goals were. I think the mediator explained it well, some people were just slow on the uptake. Maybe more time explaining what we were to accomplish in our breakout groups was needed?	2/2/2016 10:14 AM
30	Unclear definition of citizen science from the Council's perspective (but that was sort of the point of the workshop), some needed better facilitation	2/2/2016 10:07 AM

**Q12 Please think about your expectations prior to the workshop and rate how satisfied you are with the opportunities afforded by the workshop experience. A rating of 1 is completely satisfied and a rating of 5 is not satisfied at all.**

Answered: 30 Skipped: 3

### Citizen Science: Post-Workshop Survey



	1. Completely Satisfied	2.	3.	4.	5. Not Satisfied at all	Does not apply	Total	Weighted Average
Opportunities for networking	63.33% 19	23.33% 7	13.33% 4	0.00% 0	0.00% 0	0.00% 0	30	1.50
Getting to know new people	70.00% 21	23.33% 7	6.67% 2	0.00% 0	0.00% 0	0.00% 0	30	1.37

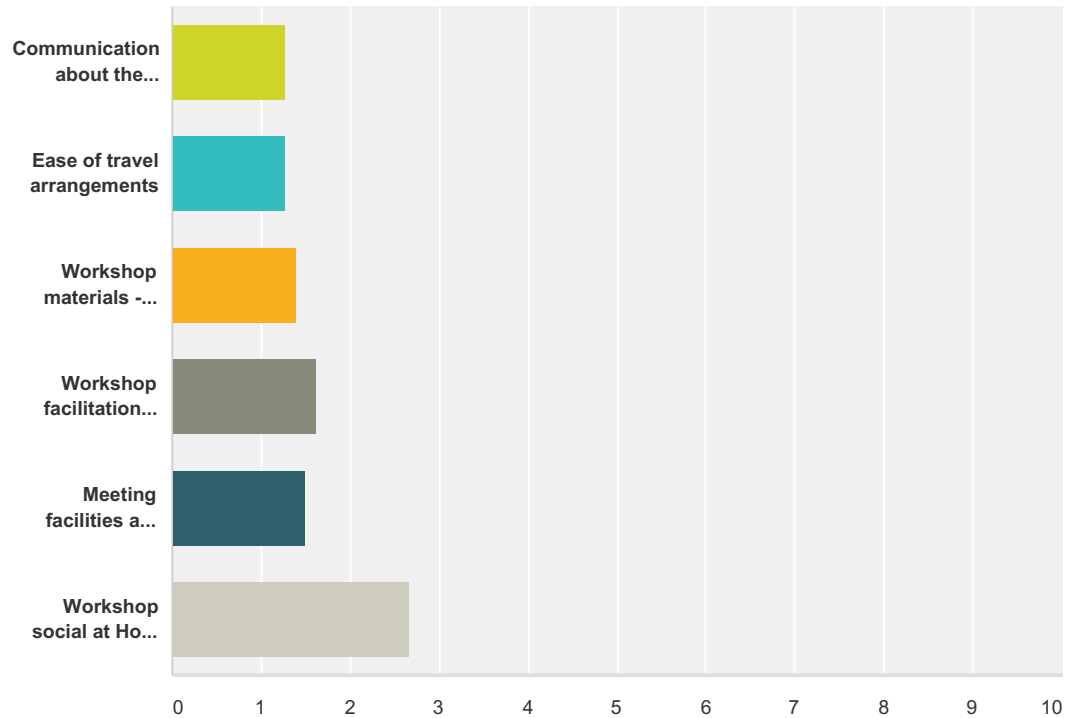
## Citizen Science: Post-Workshop Survey

Learning new ideas	56.67% 17	33.33% 10	6.67% 2	3.33% 1	0.00% 0	0.00% 0	30	1.57
Understanding how data collection translates into management	30.00% 9	30.00% 9	30.00% 9	3.33% 1	3.33% 1	3.33% 1	30	2.30
Insights into how to design a citizen science project	43.33% 13	43.33% 13	13.33% 4	0.00% 0	0.00% 0	0.00% 0	30	1.70
Insights into what a citizen science program might need to be successful	63.33% 19	26.67% 8	6.67% 2	3.33% 1	0.00% 0	0.00% 0	30	1.50
Insights into what type of communication is needed to work collaboratively	46.67% 14	36.67% 11	13.33% 4	3.33% 1	0.00% 0	0.00% 0	30	1.73
Insights into how data from a citizen science program will need to be managed	26.67% 8	40.00% 12	30.00% 9	3.33% 1	0.00% 0	0.00% 0	30	2.10
Insights into how science protocols are needed in order for data to be accepted for use in management	26.67% 8	46.67% 14	16.67% 5	6.67% 2	0.00% 0	3.33% 1	30	2.17
Insights into how volunteers need to be managed, trained, and recruited	26.67% 8	40.00% 12	23.33% 7	6.67% 2	0.00% 0	3.33% 1	30	2.23
Insights into what may serve as an incentive to participate in citizen science	30.00% 9	33.33% 10	26.67% 8	3.33% 1	6.67% 2	0.00% 0	30	2.23

#	Please provide any additional feedback on how your workshop expectations were or were not met.	Date
1	This provided the opportunity to truly think about and "get into the weeds" regarding the details that need to be taken into account to successfully use citizen science.	2/9/2016 9:09 AM
2	I wish there was more available on long term maintenance of citizens science projects. How to maintain initial energy.	2/8/2016 7:26 PM
3	Many of the CitSci concepts or best management practices were identified and discussed broadly - although we rarely got into the details/specifics. Probably not needed for an initial workshop.	2/6/2016 8:38 AM
4	Really cool well designed program to introduce CS to a variety of professionals and fishermen.	2/4/2016 1:00 PM

**Q13 Please rate your overall workshop experience. A rating of 1 is completely satisfied and a rating of 5 in not satisfied at all.**

Answered: 30 Skipped: 3



	1. Completely Satisfied	2.	3.	4.	5. Not Satisfied at all	Does not apply	Total	Weighted Average
Communication about the workshop from organizers	73.33% 22	26.67% 8	0.00% 0	0.00% 0	0.00% 0	0.00% 0	30	1.27
Ease of travel arrangements	76.67% 23	20.00% 6	3.33% 1	0.00% 0	0.00% 0	0.00% 0	30	1.27

## Citizen Science: Post-Workshop Survey

Workshop materials - agenda and other literature provided to prepare you for the workshop	<b>66.67%</b> 20	<b>26.67%</b> 8	<b>6.67%</b> 2	<b>0.00%</b> 0	<b>0.00%</b> 0	<b>0.00%</b> 0	30	1.40
Workshop facilitation - style of breakout groups and plenary sessions	<b>56.67%</b> 17	<b>30.00%</b> 9	<b>6.67%</b> 2	<b>6.67%</b> 2	<b>0.00%</b> 0	<b>0.00%</b> 0	30	1.63
Meeting facilities and hotel	<b>66.67%</b> 20	<b>23.33%</b> 7	<b>3.33%</b> 1	<b>6.67%</b> 2	<b>0.00%</b> 0	<b>0.00%</b> 0	30	1.50
Workshop social at Holy City Brewing	<b>33.33%</b> 10	<b>23.33%</b> 7	<b>20.00%</b> 6	<b>6.67%</b> 2	<b>0.00%</b> 0	<b>16.67%</b> 5	30	2.67

#	Please provide any additional feedback on your satisfaction of the overall workshop experience.	Date
1	Only reason I rated the social a medium was that the food selection was minimal and I did not want the greasier fare that night. I was not able to stay long in order to go to a more acceptable dining venue and complete dinner at a reasonable hour. The beer, however, was excellent!	2/8/2016 8:02 PM
2	The SAFMC did a remarkable job. Best workshop of this type i ever attended. SAFMC has it "going on", i can honestly say it was fun. Wait please add the "fun" requirement to what a citizens science project should provide or how designed	2/8/2016 7:29 PM
3	It was well worth my time, I look forward to viewing the results Thank You	2/7/2016 2:00 PM
4	The SAFMC staff did a great job pulling this together!	2/6/2016 8:39 AM
5	I would have liked to seen the results of your pre-survey to get a better idea of how the group defined citizen science and what examples of citizen science projects they had worked on before.	2/4/2016 10:56 AM
6	The project team did a great job, you should be proud of a successful workshop	2/2/2016 10:42 AM

Citizen Science: Post-Workshop Survey

**Q14 If the Council moves forward with developing a citizen science program, what are your expectations for the first year of the program' ?**

Answered: 30 Skipped: 3

#	Responses	Date
1	Small and specific projects that will help the program expand in the near future.	2/12/2016 6:43 AM
2	I would like to see the dedication of funds to provide for staff support (hiring) and the formation of the advisory/oversight board to include experts from the categories at the workshop.	2/10/2016 3:58 PM
3	organization in providing an outlet through the council for regular CS communications on ideas for future projects	2/10/2016 8:48 AM
4	A steep learning curve but well worth the effort	2/9/2016 12:13 PM
5	The new direction to augment data resources for the SAFMC and fishing interests.	2/9/2016 9:44 AM
6	I don't have any expectations just hope it works out well	2/9/2016 9:41 AM
7	I expect development of the personnel and framework of the program to be established. This is a large, complex, and for the most part, unknown process, so I want plenty of time and consideration to go into this before it gets ramped up into a functional program. By taking the time at the beginning and not moving too quickly, the program stands a better chance of actually producing usable research and continuing into the future.	2/9/2016 9:13 AM
8	Development of projects and recruiting volunteers to collect data for those projects.	2/9/2016 8:22 AM
9	Vision of the future outlined, including long term sources of funding.	2/8/2016 9:45 PM
10	BIG	2/8/2016 9:14 PM
11	Do not bite off more than you can chew. Try some simple pilot(s) on rather uncomplicated studies and simple data needs to work out the bugs that will inevitably develop. Do not underestimate the difficulty of managing "volunteers". Many will stray worse than cats, "work" only when completely convenient to them, and many will be very poor on time management and meeting endpoint commitments. Volunteers, by nature, overwhelmingly start hot, but many fade within time - say a year. Continuity with participants could be a challenge, along with "payback" for effort put in training.	2/8/2016 8:12 PM
12	Brain-storming to identify projects	2/8/2016 7:29 PM
13	Hopefully we can find the money to get the program started and initiate a simple project for proof of concept. Hire a full time staff person to run the program	2/8/2016 12:55 AM
14	Hopefully they would find some way to get the word out to all interested parties about the importance of this program. Maybe Public service announcements. Advertising?	2/7/2016 2:06 PM
15	Establishment of protocols; formation of an advisory body; initial discussion of potential topics	2/6/2016 8:40 AM
16	Start with a couple of smaller, simpler projects that can become more complex with time. Identify clearly defined goals and secure sufficient funding to achieve them.	2/5/2016 3:13 PM

## Citizen Science: Post-Workshop Survey

17	Develop a plan that is comprehensive, realistic and long term	2/4/2016 1:37 PM
18	Developing program objectives and identifying the role of partners	2/4/2016 10:57 AM
19	Getting the infrastructure set up properly to allow for the first data collection project to operate smoothly!	2/4/2016 10:12 AM
20	Creating a pool of participants and scientist with solid objectives	2/3/2016 5:43 PM
21	hopefully show evidence of progression, yes, very difficult to show during early stages.	2/3/2016 12:29 PM
22	I would anticipate that s considerable amount of time and effort would need to be expended building the framework for the program - e.g., how projects will be identified / chosen, criteria for selecting participants, determining whether to provide incentives, and determining metrics to evaluate success.	2/2/2016 1:11 PM
23	Proof of concept and easily implemented/successful programs to be funded.	2/2/2016 12:39 PM
24	Confusion	2/2/2016 11:28 AM
25	What is clear from the workshop and reading materials presented that a citizen science program must be simple, and it is best if it is partnered by scientists.	2/2/2016 10:46 AM
26	1) Hiring a program manager 2) Development of task forces 3) Process for identifying projects 4) Initial communications campaign	2/2/2016 10:43 AM
27	I expect it mostly will be lining up projects, volunteers and support.	2/2/2016 10:34 AM
28	In order to increase the chance of success and ability to have folks believe and engage in the Program, the Council needs to select a straight forward, simple project with a high probability of measurable success.	2/2/2016 10:22 AM
29	I believe the first year will be a rocky one until there is enough data collected to display some close to real time information in a way that fishermen can appreciate. I believe that displaying the data in a meaningful and accessible way will be integral to buy-in, and if that is done correctly, the first year of the program will be a success. I expect the first year to establish a project, establish a pool of potential citizen scientists, and begin collecting!	2/2/2016 10:18 AM
30	A clearly outlined process for submitting project ideas and selecting projects	2/2/2016 10:11 AM



**Q15 If you are willing to have workshop organizers contact you for more details about your responses, please enter your email address below.**

Answered: 24 Skipped: 9

#	Responses	Date
1	Captainira@att.net	2/12/2016 6:43 AM
2	julie.defilippi@accsp.org	2/10/2016 3:58 PM
3	pfishinpfun@prodigy.net	2/9/2016 12:13 PM
4	DSF2009@aol.com	2/9/2016 9:45 AM
5	lparker@uga.edu	2/9/2016 9:42 AM
6	bubleyw@dnr.sc.gov	2/9/2016 9:14 AM
7	habeels@ufl.edu	2/9/2016 8:22 AM
8	heymanwill@yahoo.com	2/8/2016 9:46 PM
9	abundantseafood@gmail.com	2/8/2016 9:15 PM
10	rjlorenz@ec.rr.com	2/8/2016 8:12 PM
11	doug.mumford@ncdenr.gov	2/8/2016 7:29 PM
12	mackattackben@att.net	2/8/2016 12:56 AM
13	Mrowfish@aol.com. 321-258-5270	2/7/2016 2:08 PM
14	bakers@uncw.edu	2/6/2016 8:40 AM
15	Luiz.Barbieri@myfwc.com	2/5/2016 3:14 PM
16	Kenneth.Brennan@noaa.gov	2/4/2016 1:37 PM
17	fluech@uga.edu	2/4/2016 10:57 AM
18	michelle.duval@ncdenr.gov	2/4/2016 10:12 AM
19	Dcjeffcoat@concast.net	2/3/2016 5:43 PM
20	dave@halyardsrestaurant.com	2/3/2016 12:29 PM
21	carolyn.belcher@dnr.ga.gov	2/2/2016 12:39 PM

## Citizen Science: Post-Workshop Survey

22	lkrimsky@ufl.edu	2/2/2016 10:43 AM
23	ga_capt@yahoo.com	2/2/2016 10:35 AM
24	kathy.knowlton@dnr.ga.gov	2/2/2016 10:22 AM