

UNOLS Vessel Usage Survey Statistics

357 Surveys Completed

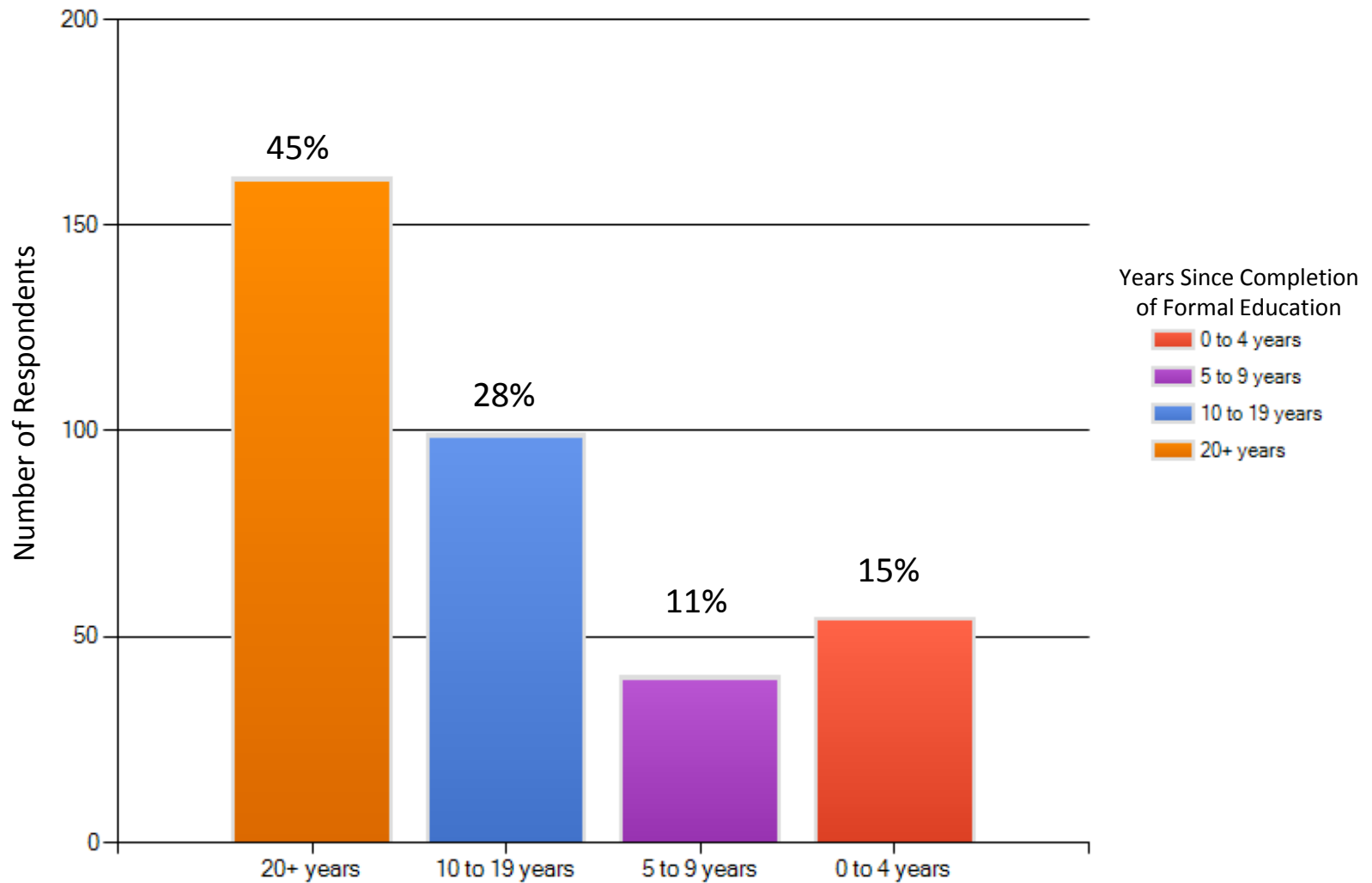
Purpose of the Vessel Usage Survey

The purpose of this survey was to collect data that will help us to better understand the nature of the ship time demand decline. With the survey results, we wanted to:

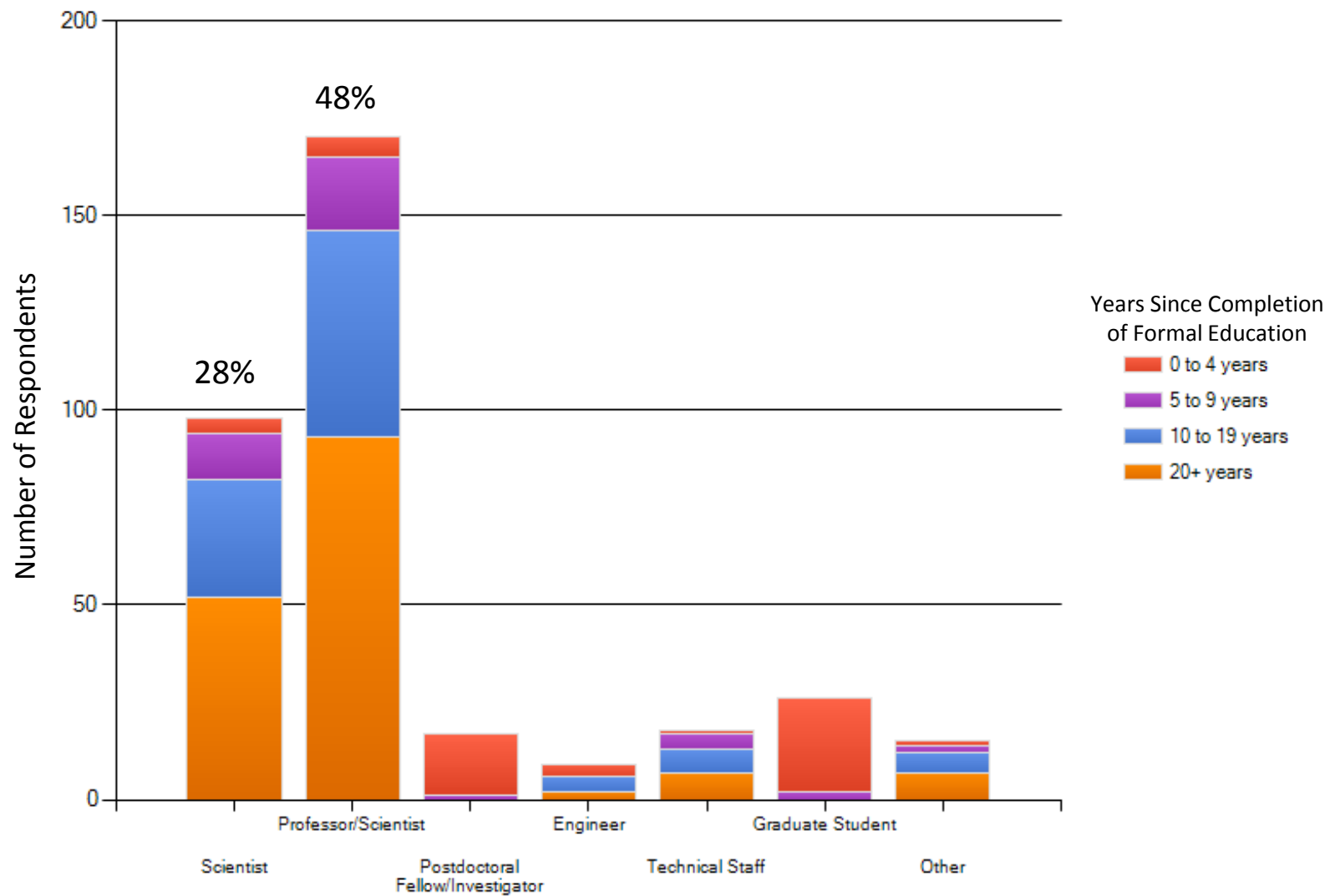
- Determine if the decline in ship time demand can be expected as a long-term trend
- Identify any issues or barriers (real or perceived) related to submitting proposals that include ship time requests and work to reduce those barriers
- Develop strategies for reducing any barriers that might be identified and to expand access to UNOLS vessels
- Re-evaluate the future fleet capacity and composition in comparison to anticipated ship time demand

* NOTE: For additional interpretation of results, slides from Dr. Deborah Smith's presentation at the 2013 UNOLS Council Winter/Spring Meeting have been included.

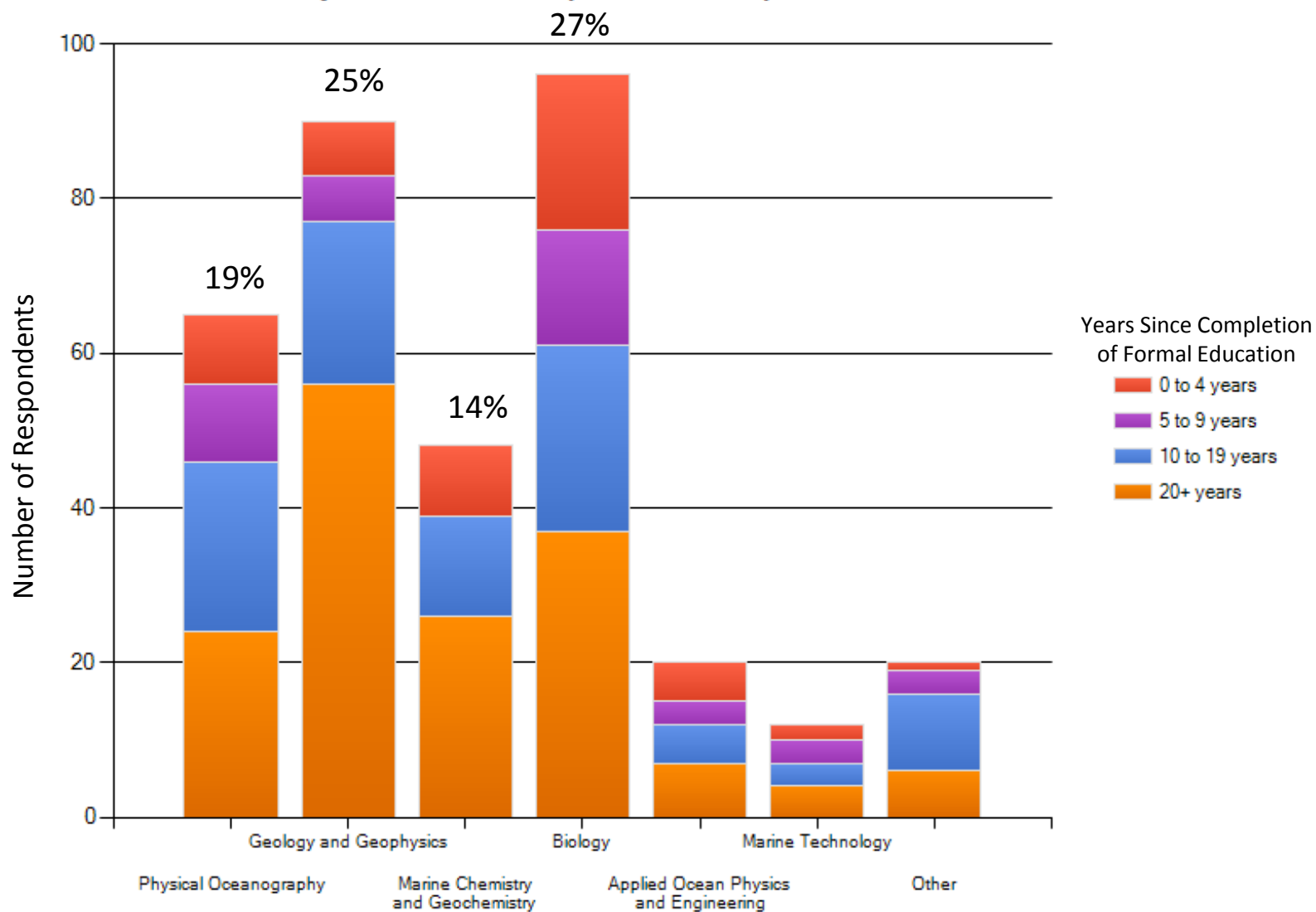
How many years has it been since completion of your formal education?



What is your present position within your institution/organization?



What is your research discipline/area of expertise?



What fraction of your seagoing work is associated with (total ~100%):

Percentage	0%	<30%	30%-59%	60%-79%	80%-100%	Response Count
Global-Multinational Programs (eg. CLIVAR, etc.)	152	62	32	9	13	268
National Programs	92	58	58	30	30	268
ONR-Directed Research Initiatives	161	23	27	10	8	229
State or Regional Programs	148	53	29	6	6	242
"Monitoring" vs. "Exploratory Research"	107	72	44	9	5	237
Process Studies (not associated with the Global-Multinational, National, ONR-Directed, State or Regional programs mentioned above)	81	45	65	39	41	271
Instrument Testing/Development	99	127	23	3	2	254

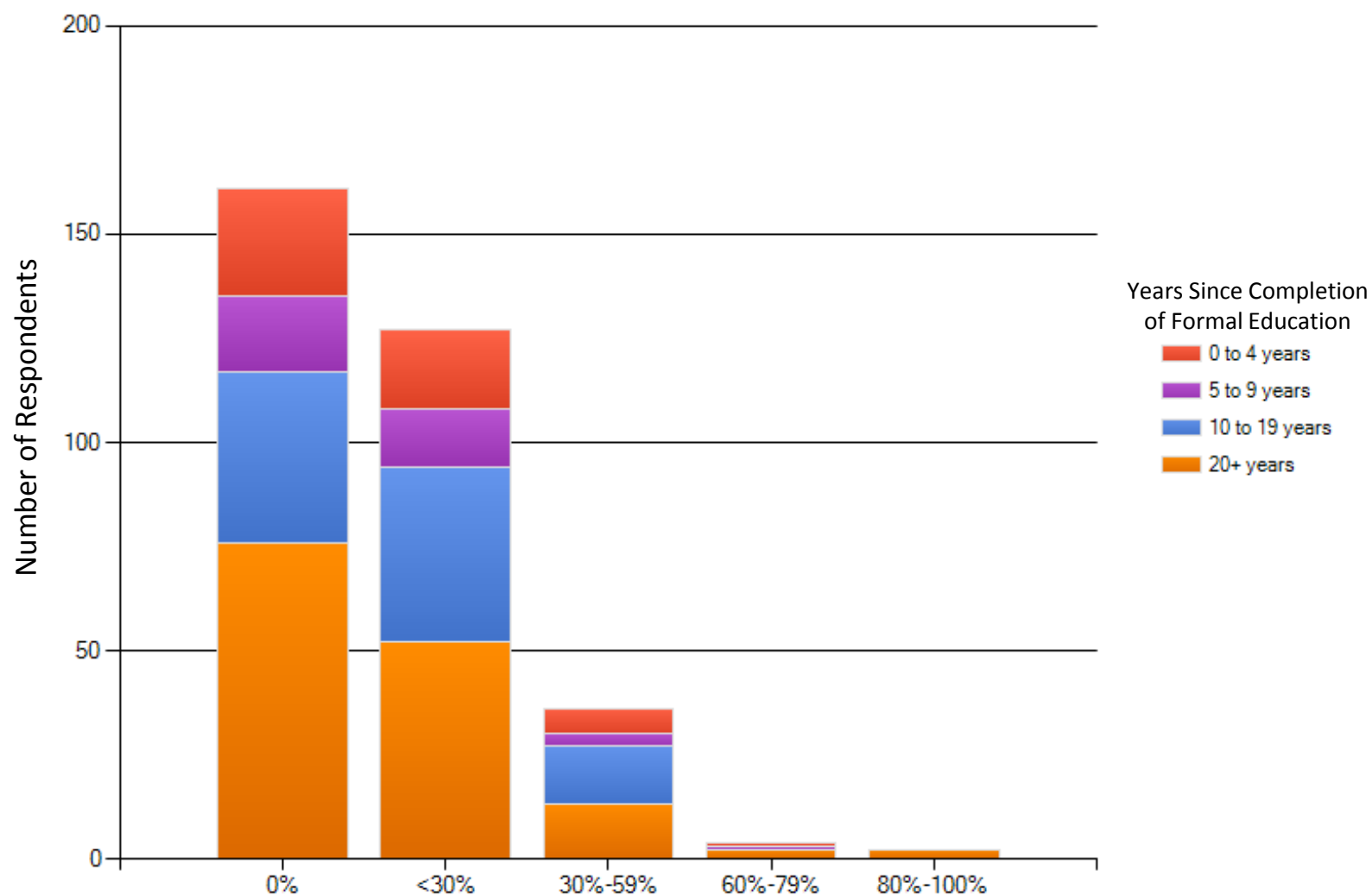
What fraction of your present research program is based on samples or data collected personally (total ~100%):

Percentage	0%	<30%	30%-59%	60%-79%	80%-100%	Response Count
In a shore-side laboratory?	129	75	37	9	11	261
From high latitude cruises?	173	61	37	9	12	292
From coastal cruises (excluding high latitude cruises)?	94	81	64	25	20	284
From open ocean cruises (excluding high latitude cruises)?	66	76	77	56	44	319
From space-based sensors?	207	37	6	1	0	251

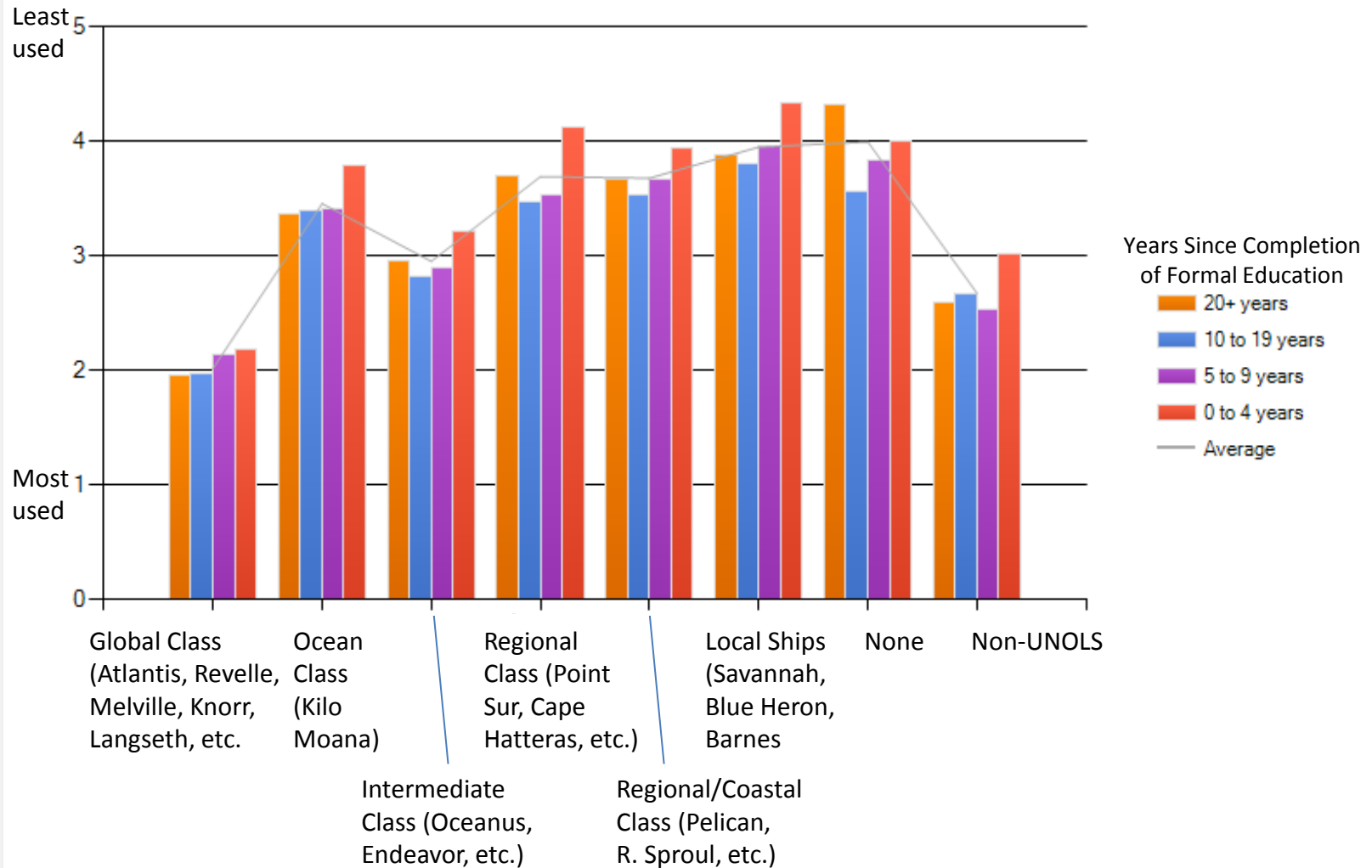
What fraction of your present research is based on samples or data collected by others (total ~100%):

Percentage	0%	<30%	30%-59%	60%-79%	80%-100%	Response Count
In a shore-side laboratory?	207	53	10	3	3	276
From high latitude cruises?	195	63	16	4	2	280
From coastal cruises (excluding high latitude cruises)?	175	75	27	9	5	291
From open ocean cruises (excluding high latitude cruises)?	132	109	48	14	9	312
From space-based sensors?	188	71	10	2	2	273

What fraction of your present research program is based on samples or data from national archive facilities (total ~100%)?



What types of UNOLS research vessels do you use? Please prioritize with 1 being the most used for your research and 5 being the least. Items can be given the same priority.



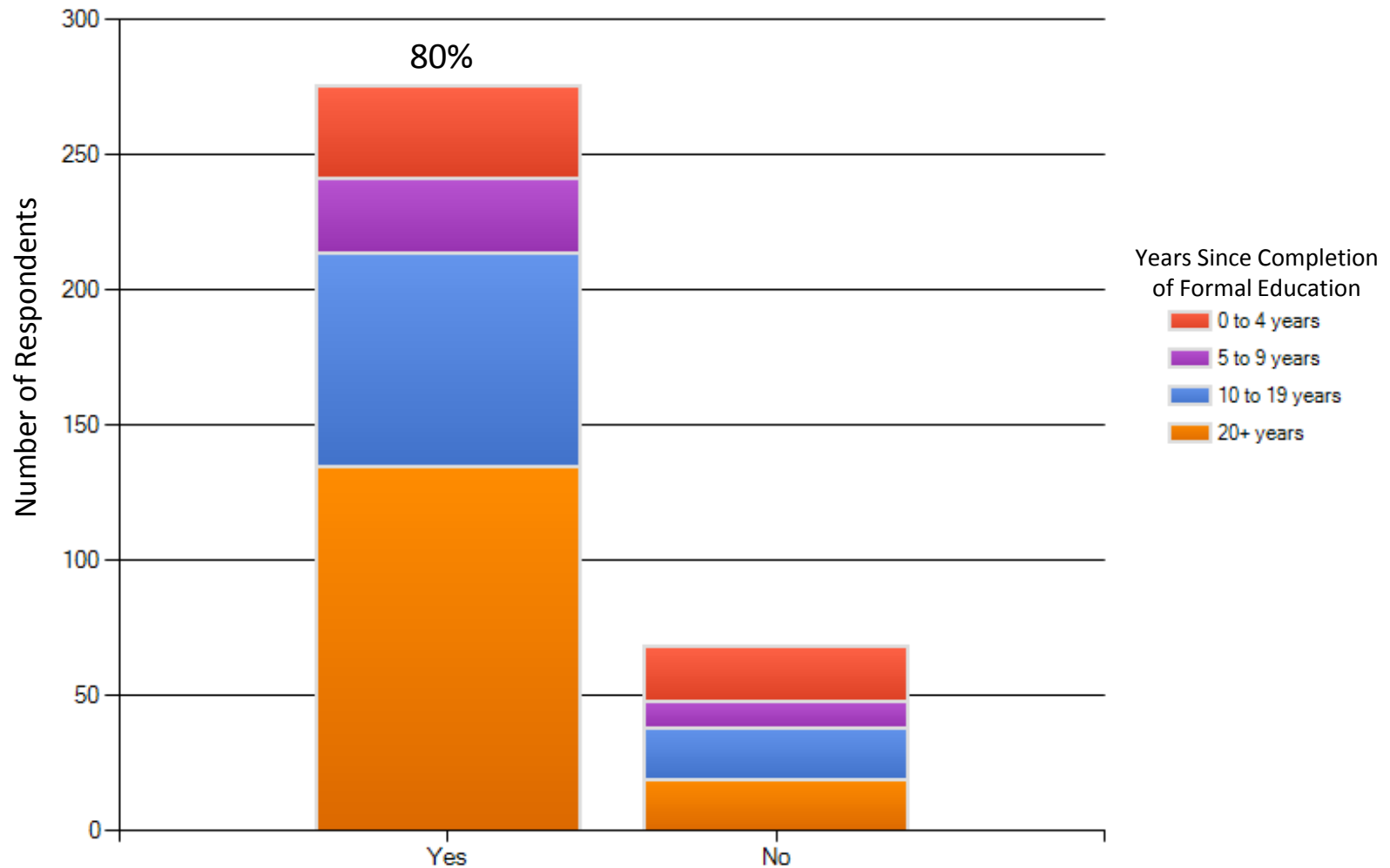
1 = most used;
5 = least used.

[illegible]

**Over the last five years, on average how many days per year did you spend at sea?
(Any part of a day at sea constitutes a full sea day.)**

Number of Days	0	<10	10 to 30	31 to 60	> 60	Response Count
On UNOLS vessels	61	53	136	54	18	322
On Non-UNOLS (Commercial, NOAA, Foreign, etc)	67	69	81	52	21	290

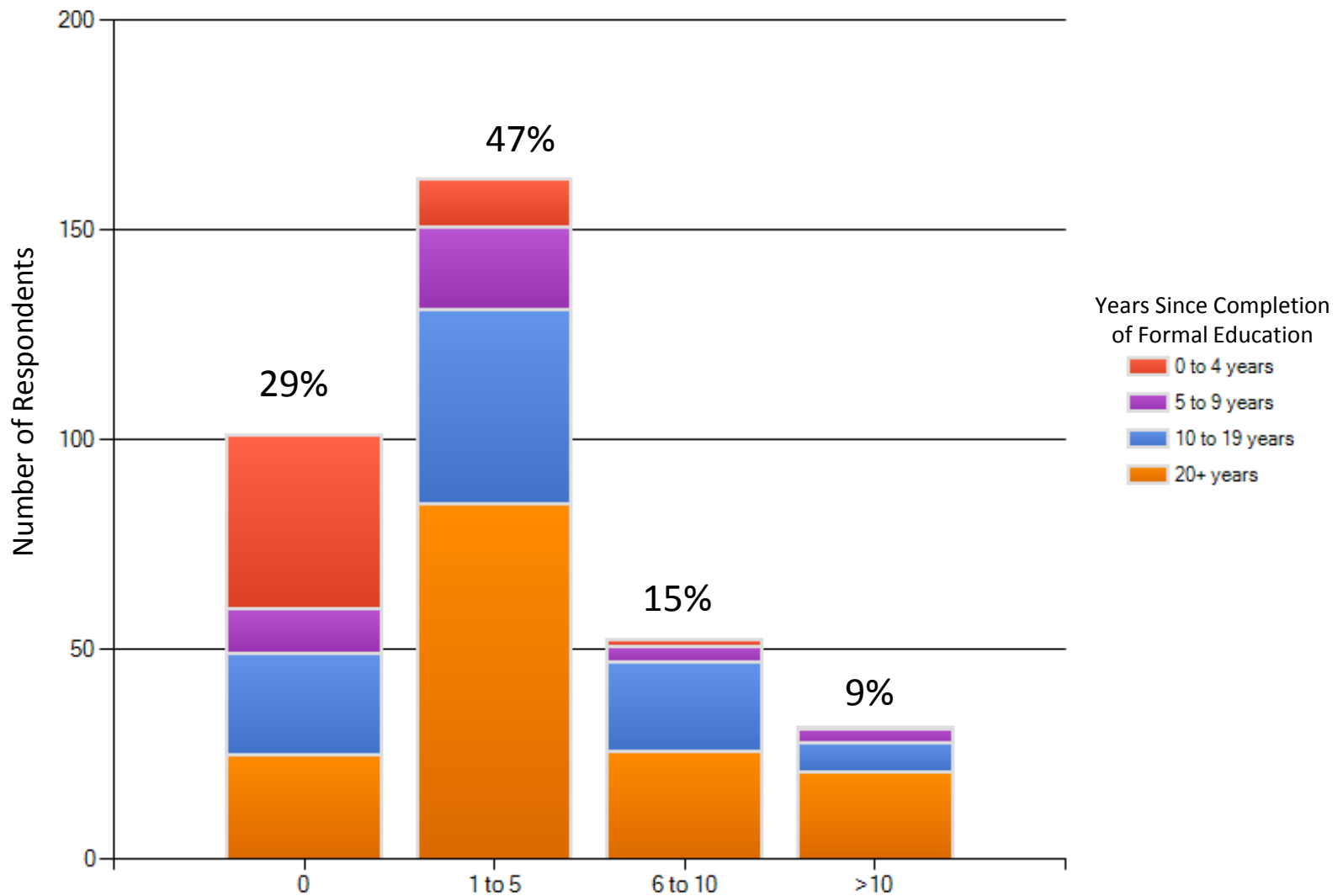
Have you ever submitted (or are likely to submit) a proposal that explicitly included a request for ship time for field research. (In other words, you would have been required to submit a UNOLS Ship Time Request form)?



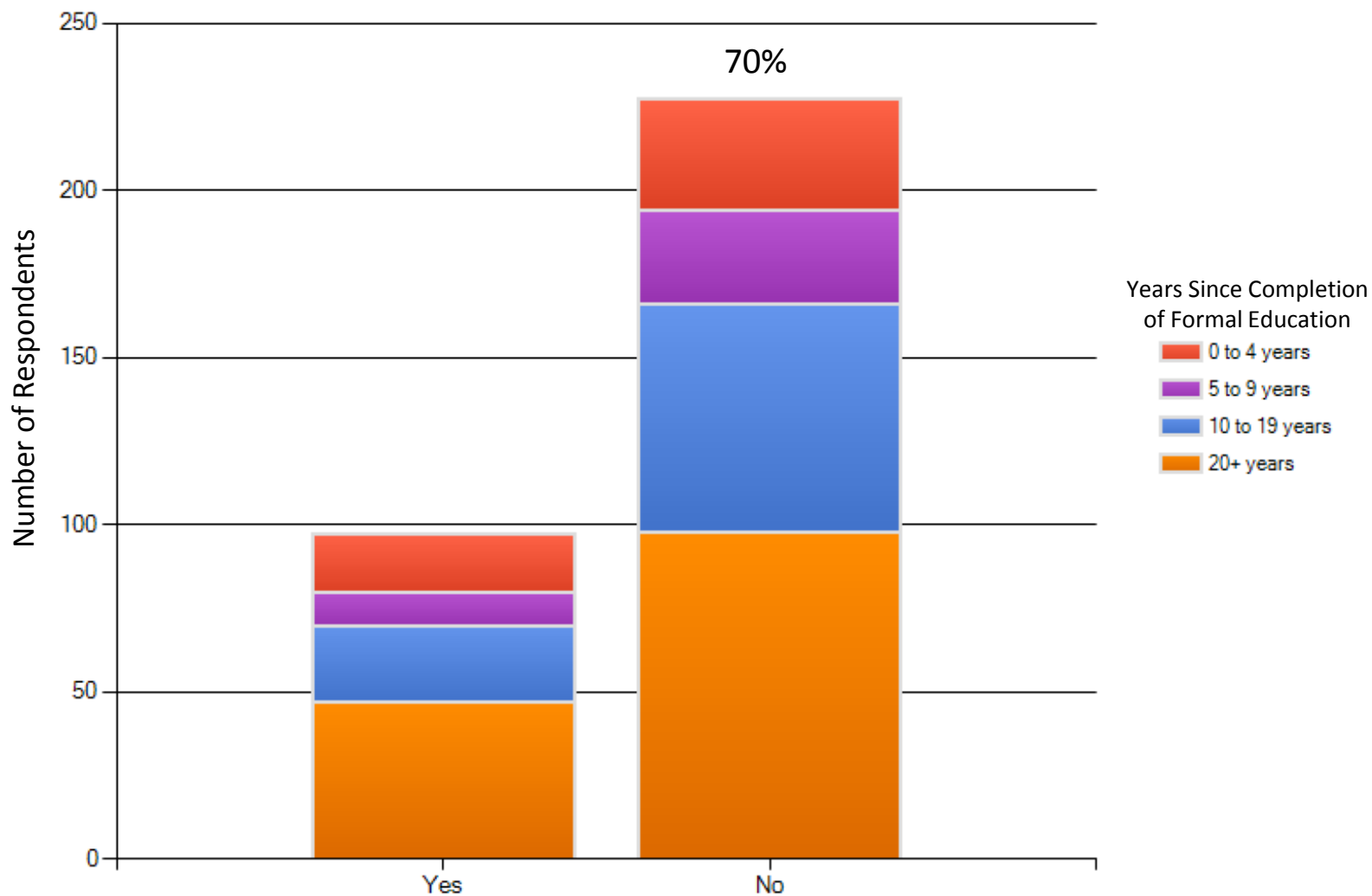
If "yes" to question 11, how many proposals with ship time have you submitted for cruises during the following periods?

Number of Proposals	0	1 to 5	6 to 10	>10	Response Count
1995 to 2000	94	123	26	5	248
2001 to 2005	68	150	32	6	256
2006 to 2010	55	176	31	7	269
2011 and beyond	62	168	13	8	251

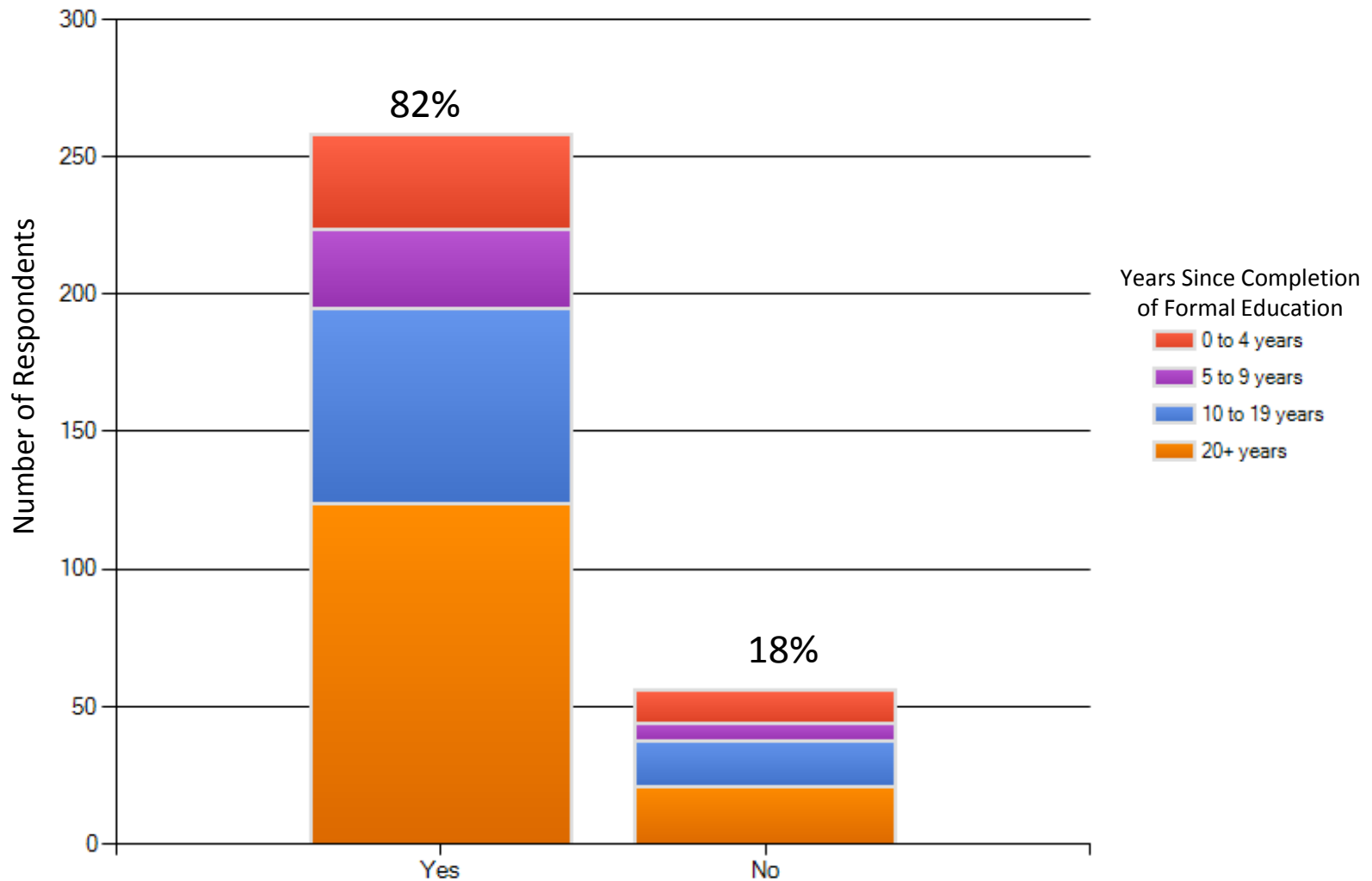
How many times in the last 5 years have you been a PI on a cruise?



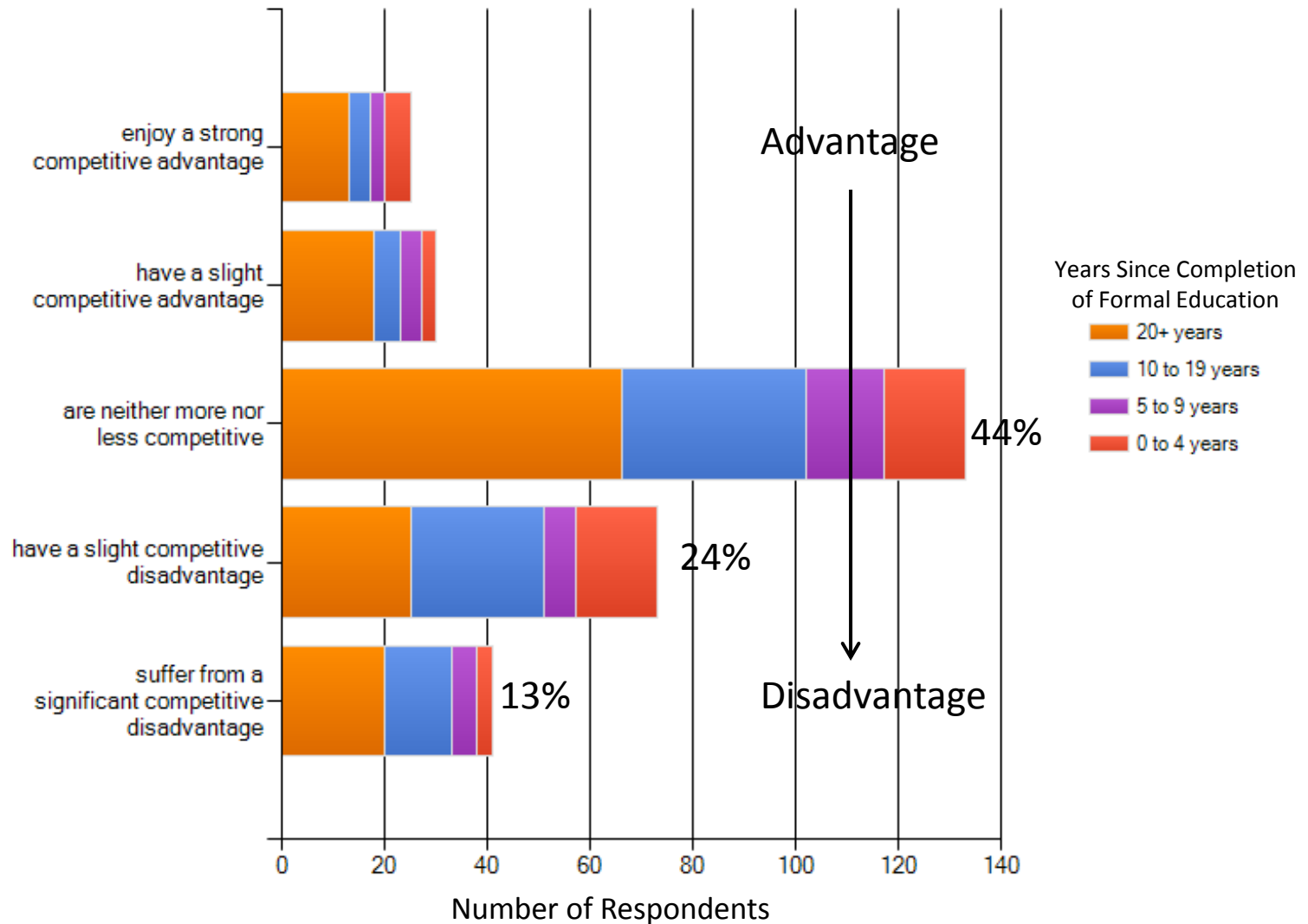
At your institution, does the oceanographic curriculum include a graduation requirement to participate in a research cruise?



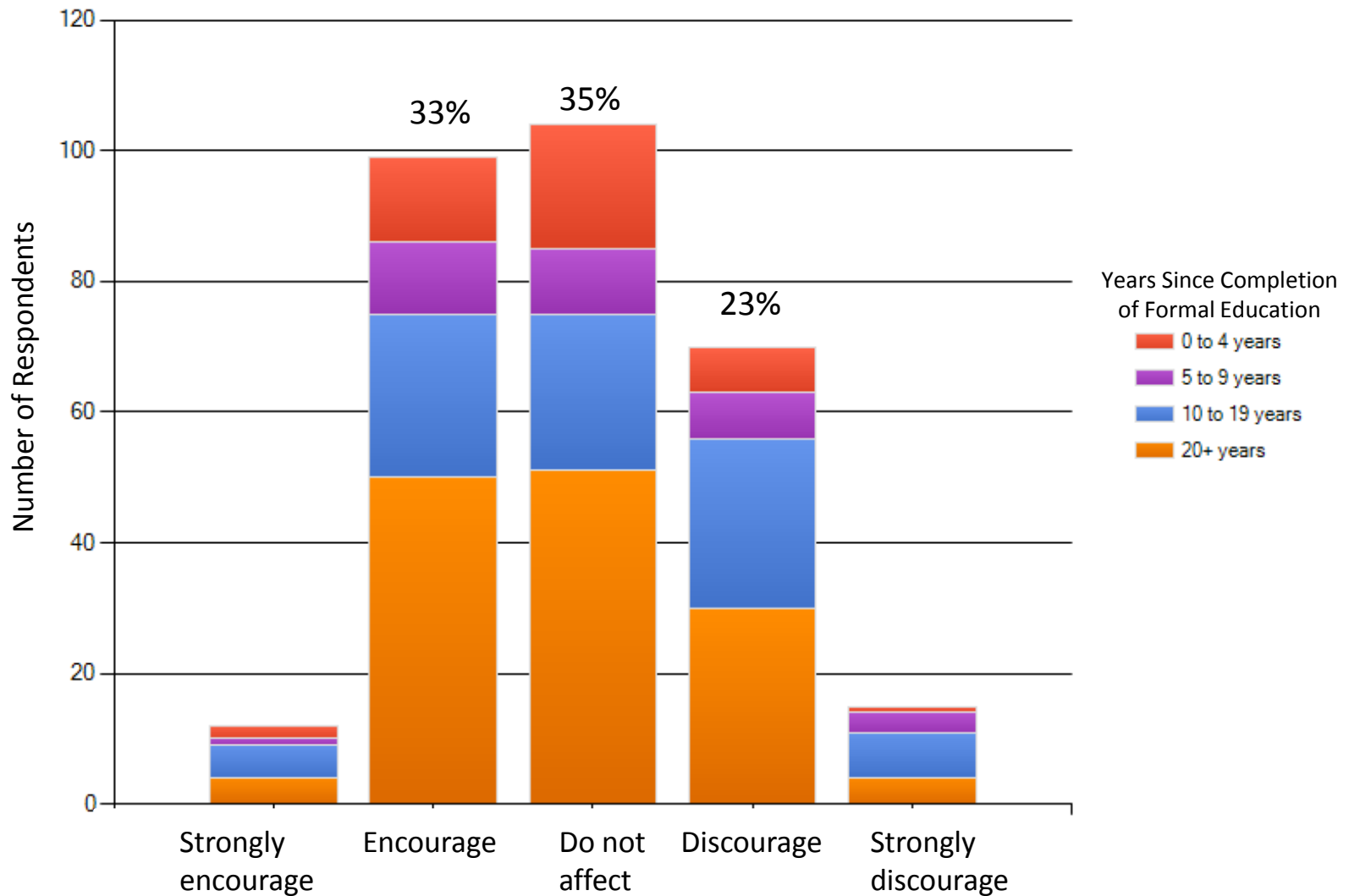
Do you plan to submit a proposal that includes a request for ship time within the next three years?



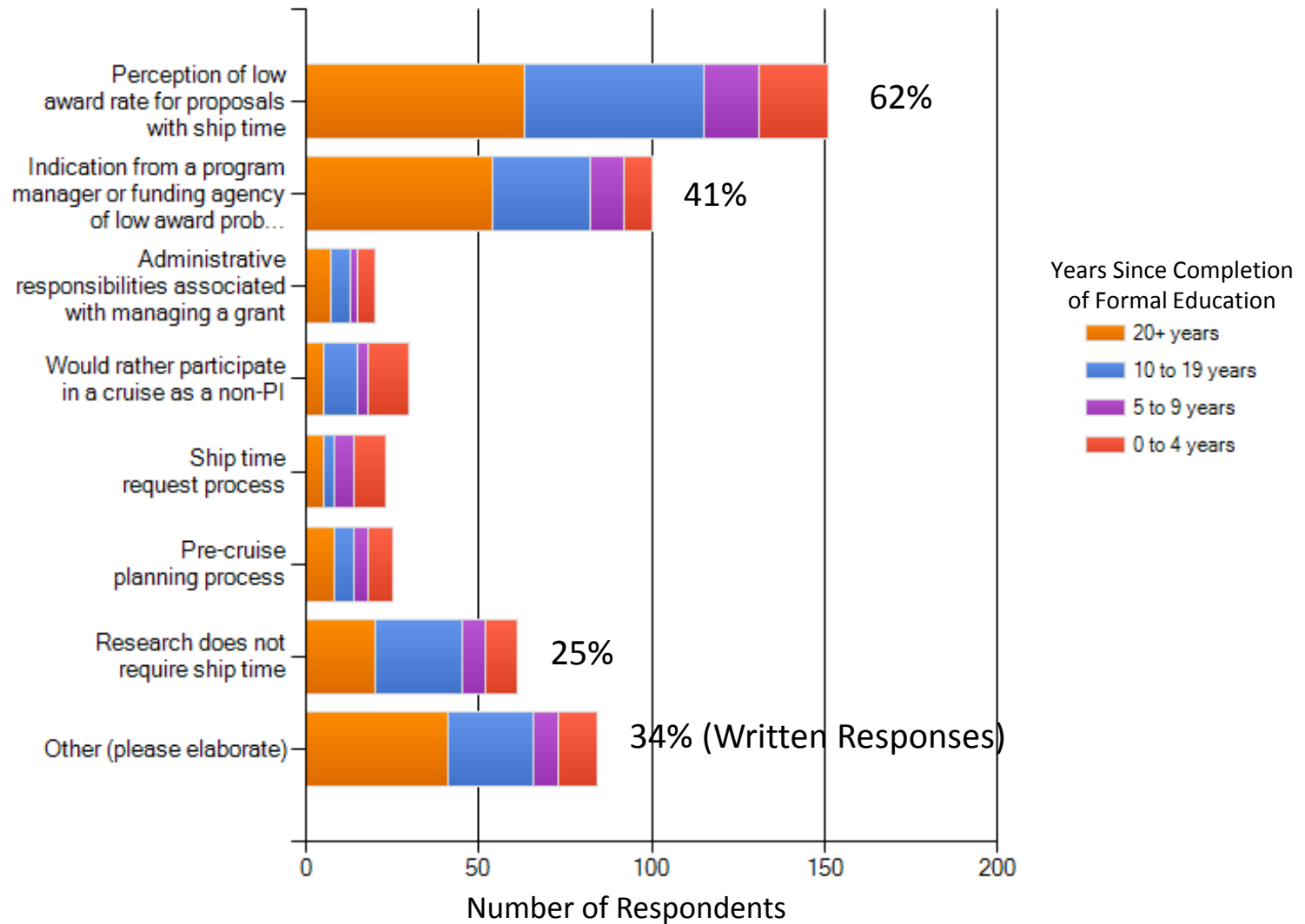
I feel my science proposals _____ compared to my peers because of my use of ships for my research.



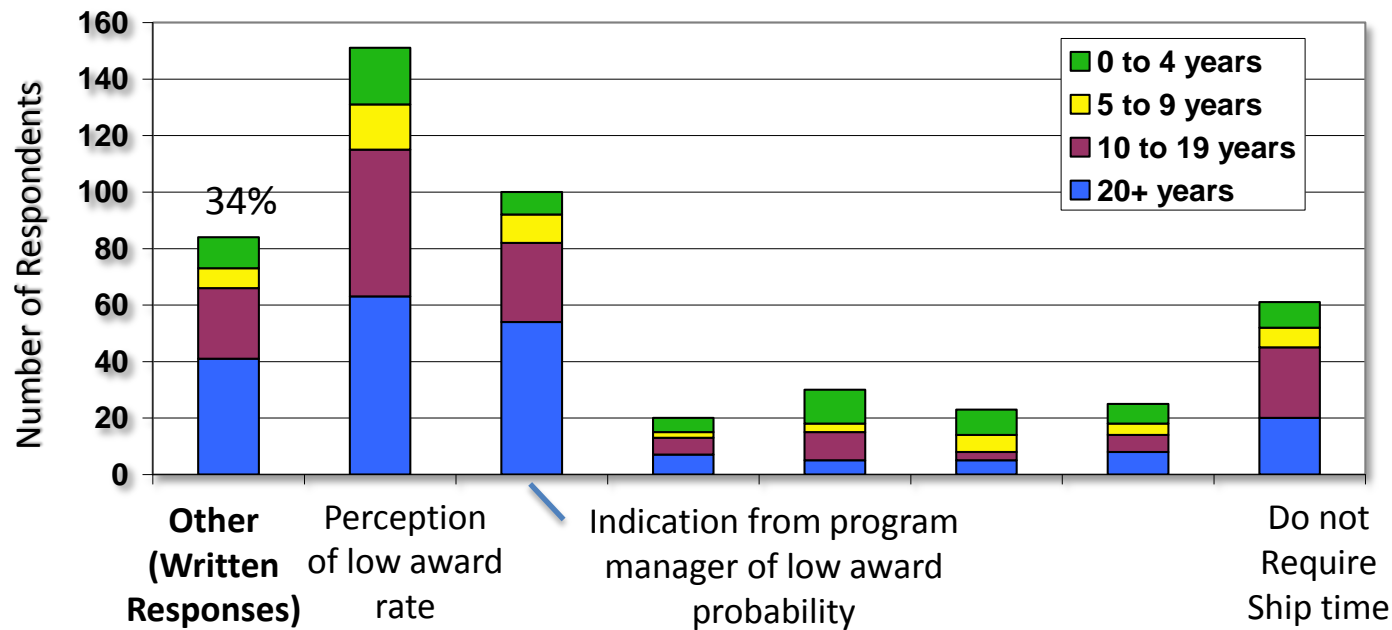
The customs and attitudes of the funding agencies _____ the full use of the available ship resources in my field of research.



Have you ever been reluctant to submit a ship time proposal for any of the following reasons (check all that apply):



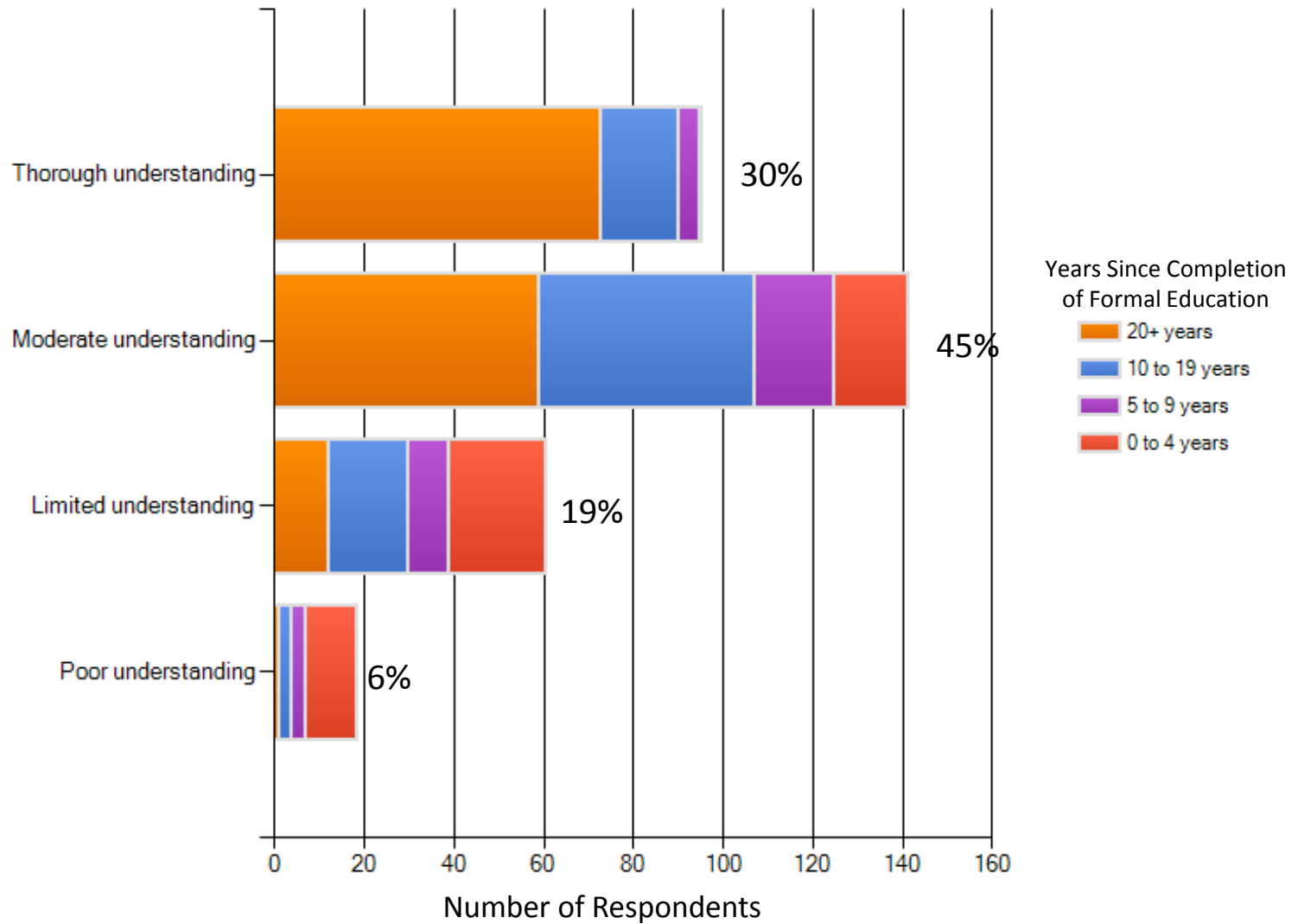
Written Responses: Have you ever been reluctant to submit a ship time proposal for any of the following reasons (check all that apply).



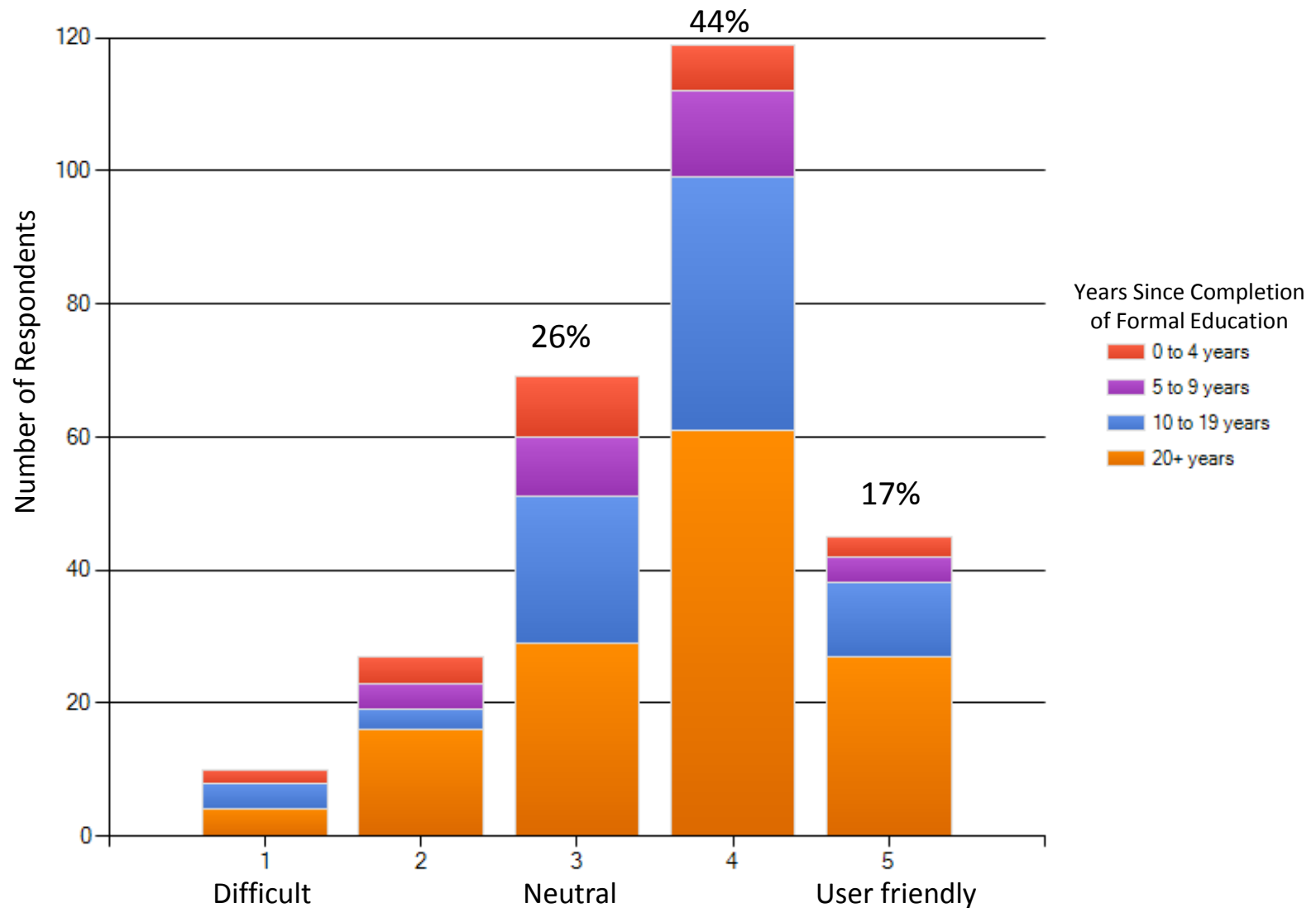
84 written responses, which fall into 2 main categories.

- Limited funding/costs of going to sea/waste of time to write a proposal - **52% (44)**
- Ship issues (e.g., ROIs, clearance, scheduling, tech support) - **23% (19)**
- Too junior/not familiar with UNOLS - 7% (6)
- No problem - 8% (7)
- Miscellaneous - 10% (8)

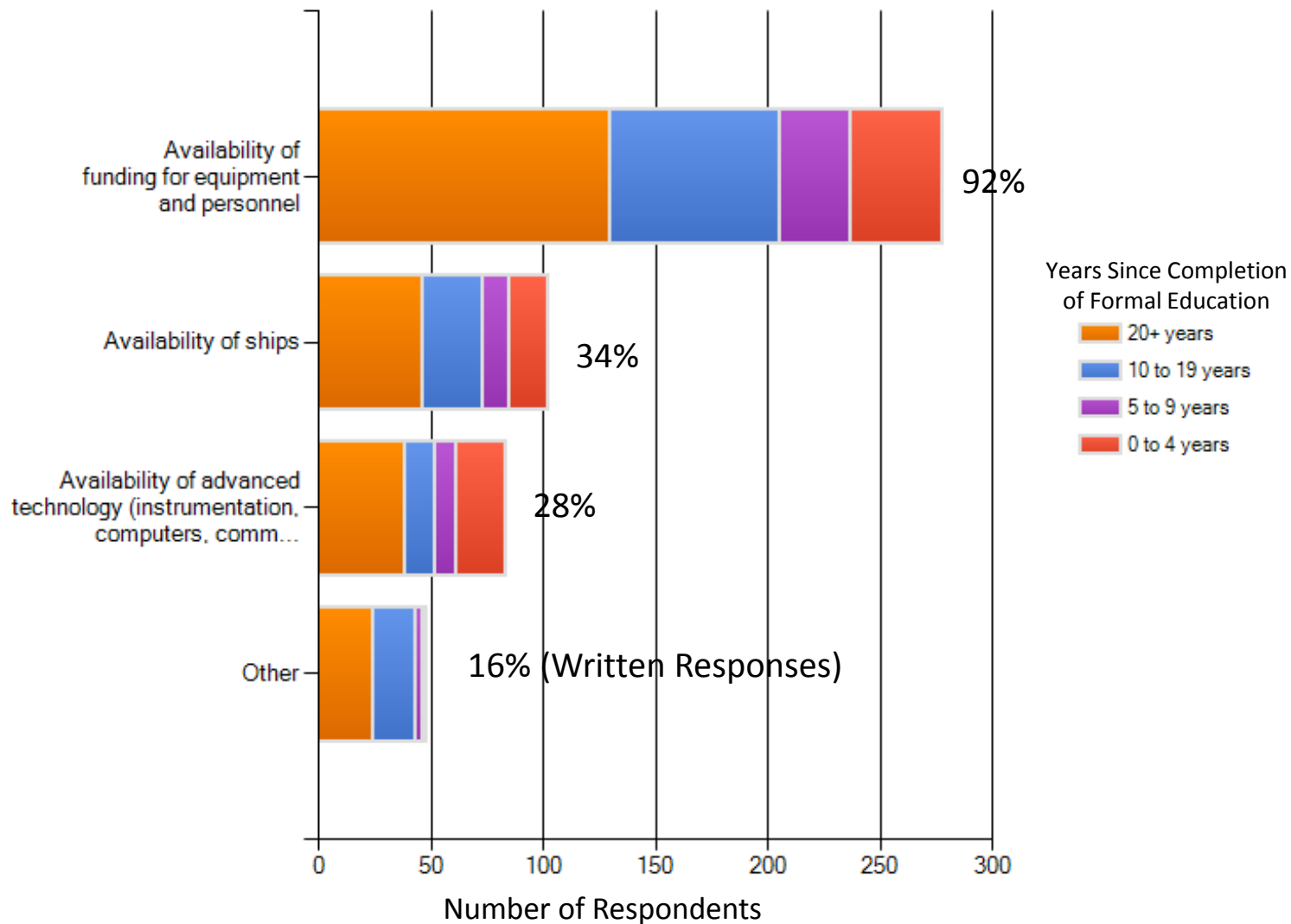
Rate your knowledge of the UNOLS organization and UNOLS' role in providing access to the Academic Research Fleet.



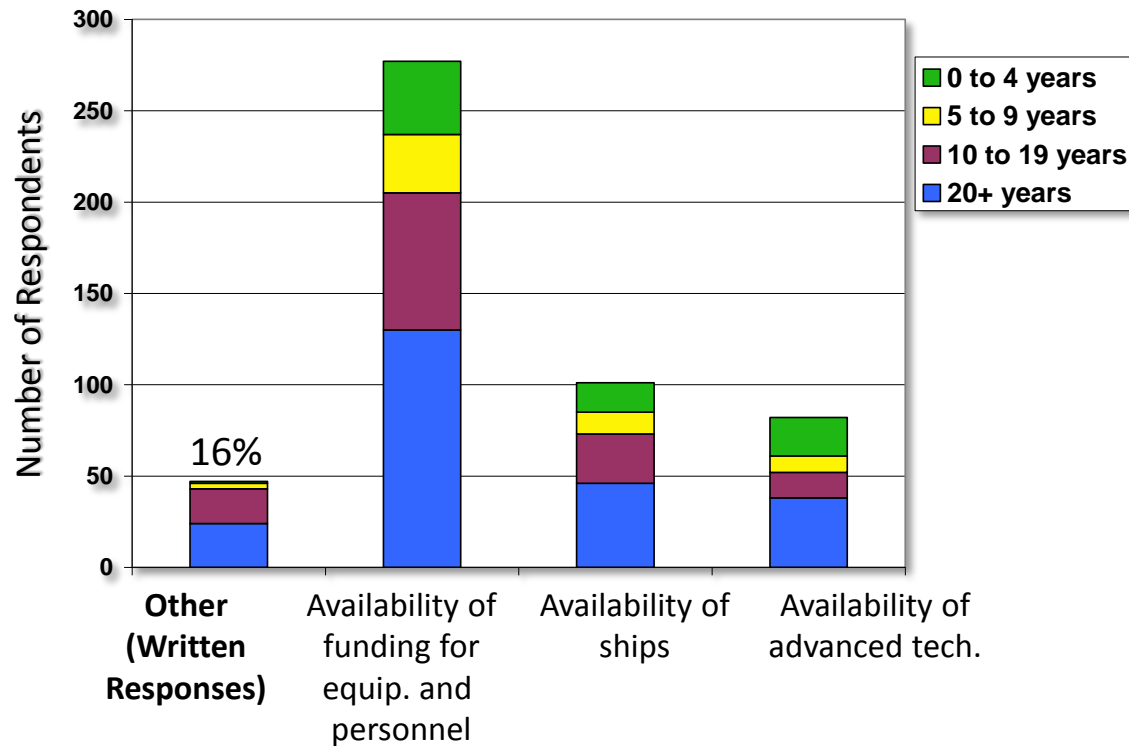
Describe your experience using the UNOLS Ship Time Request System on a scale of 1 to 5 with one being "Difficult to Use" and 5 being "User Friendly."



Which of these factors limit the type of science questions you are able to address today? Indicate all which apply.



Which of these factors limit the type of science questions you are able to address today?



47 written responses, which fall into the following categories:

- Costs of going to sea - **34% (16)**
- Equipment and its availability – **30% (14)**
- Ship availability/schedules – 15% (7)
- Personnel/tech support – 13% (6)
- Miscellaneous – 13% (6)

In maintaining and expanding your field research program, you are challenged to locate the resources that you need, raise the funds to secure these resources, and administer the overall program. Please rate the magnitude of the challenge 1-10, with 1 signifying "no problem" and 10 being extremely daunting.

Resource Availability												
	No problem 1	2	3	Average		4	5	6	7	8	Extremely daunting 9 10	Response Count
Shore-side laboratory space	49.4% (116)	17.4% (41)	10.6% (25)	4.7% (11)	7.7% (18)	3.8% (9)	1.7% (4)	3.0% (7)	0.0% (0)	1.7% (4)	235	
Shared-use machine shops and lab support facilities	39.0% (90)	14.3% (33)	16.0% (37)	3.9% (9)	11.3% (26)	2.6% (6)	3.5% (8)	4.8% (11)	3.0% (7)	1.7% (4)	231	
Dedicated shore-side tech support group	25.1% (58)	7.8% (18)	17.7% (41)	7.8% (18)	13.4% (31)	5.6% (13)	8.7% (20)	4.8% (11)	3.5% (8)	5.6% (13)	231	
Access to ships and ship time	14.6% (38)	11.5% (30)	17.7% (46)	10.0% (26)	14.2% (37)	6.5% (17)	7.7% (20)	6.9% (18)	5.4% (14)	5.4% (14)	260	
Access to shared-use ship board instruments/facilities (multi-beam, ROVs, isotope ions, etc.)	26.3% (61)	15.5% (36)	14.7% (34)	9.5% (22)	13.8% (32)	4.3% (10)	7.3% (17)	1.7% (4)	3.0% (7)	3.9% (9)	232	
Access to at-sea technical support	30.4% (73)	20.0% (48)	16.7% (40)	9.2% (22)	10.8% (26)	3.3% (8)	4.2% (10)	3.3% (8)	0.8% (2)	1.3% (3)	240	
Other	6.3% (1)	0.0% (0)	6.3% (1)	0.0% (0)	12.5% (2)	0.0% (0)	6.3% (1)	6.3% (1)	6.3% (1)	56.3% (9)	16	

Most respondents indicate average to no problems for locating the resources listed.

In maintaining and expanding your field research program, you are challenged to locate the resources that you need, raise the funds to secure these resources, and administer the overall program. Please rate the magnitude of the challenge 1-10, with 1 signifying "no problem" and 10 being extremely daunting.

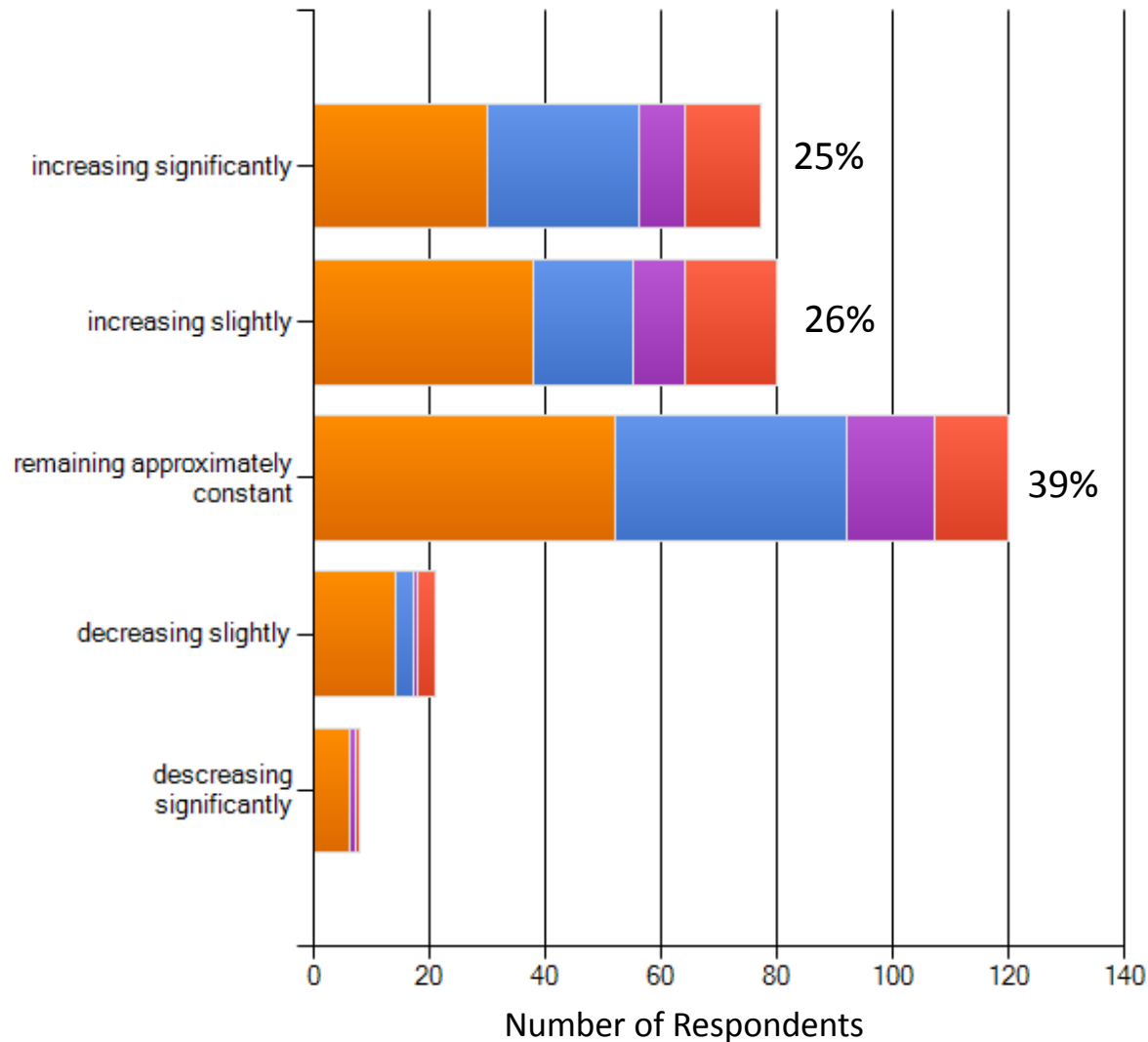
Access to support funds													
	No problem 1	2	3	Average			5	6	7	8	9	Extremely daunting 10	Response Count
Shore-side laboratory space	14.0% (31)	6.8% (15)	11.7% (26)	7.7% (17)	17.1% (38)	4.1% (9)	8.6% (19)	18.5% (41)	4.5% (10)	7.2% (16)		222	
Shared-use machine shops and lab support facilities	12.9% (28)	6.5% (14)	10.1% (22)	10.1% (22)	18.0% (39)	5.5% (12)	10.1% (22)	14.3% (31)	5.5% (12)	6.9% (15)		217	
Dedicated shore-side tech support group	8.4% (18)	4.7% (10)	10.7% (23)	6.5% (14)	16.4% (35)	6.1% (13)	8.4% (18)	14.0% (30)	8.4% (18)	16.4% (35)		214	
Access to ships and ship time	4.9% (12)	3.7% (9)	5.7% (14)	4.9% (12)	11.8% (29)	4.9% (12)	15.9% (39)	13.9% (34)	13.1% (32)	21.2% (52)		245	
Access to shared-use ship board instruments/facilities (multi-beam, ROVs, isotope ions, etc.)	12.5% (27)	8.3% (18)	10.2% (22)	5.6% (12)	18.1% (39)	7.4% (16)	10.6% (23)	7.9% (17)	6.9% (15)	12.5% (27)		216	
Access to at-sea technical support	15.5% (34)	10.9% (24)	11.8% (26)	8.6% (19)	15.5% (34)	5.9% (13)	5.5% (12)	11.8% (26)	4.1% (9)	10.5% (23)		220	
Other	11.8% (2)	5.9% (1)	0.0% (0)	5.9% (1)	0.0% (0)	0.0% (0)	11.8% (2)	11.8% (2)	5.9% (1)	47.1% (8)		17	

In maintaining and expanding your field research program, you are challenged to locate the resources that you need, raise the funds to secure these resources, and administer the overall program. Please rate the magnitude of the challenge 1-10, with 1 signifying "no problem" and 10 being extremely daunting.

Administrative burden												
	No problem 1	2	3	Average		4	5	6	7	8	Extremely daunting 9 10	Response Count
Shore-side laboratory space	31.2% (67)	20.9% (45)	14.0% (30)	7.0% (15)	12.1% (26)	2.8% (6)	4.7% (10)	5.1% (11)	1.9% (4)	0.5% (1)	215	
Shared-use machine shops and lab support facilities	33.8% (70)	22.7% (47)	15.9% (33)	5.8% (12)	12.6% (26)	2.4% (5)	2.9% (6)	1.4% (3)	1.9% (4)	0.5% (1)	207	
Dedicated shore-side tech support group	25.5% (52)	20.1% (41)	15.2% (31)	8.8% (18)	13.7% (28)	4.4% (9)	3.9% (8)	4.4% (9)	2.5% (5)	1.5% (3)	204	
Access to ships and ship time	15.2% (35)	21.2% (49)	17.7% (41)	5.6% (13)	19.9% (46)	4.3% (10)	4.8% (11)	6.5% (15)	2.2% (5)	2.6% (6)	231	
Access to shared-use ship board instruments/facilities (multi-beam, ROVs, isotope ions, etc.)	19.6% (41)	20.6% (43)	20.6% (43)	7.7% (16)	17.2% (36)	5.3% (11)	1.9% (4)	2.9% (6)	2.9% (6)	1.4% (3)	209	
Access to at-sea technical support	31.3% (66)	25.6% (54)	11.4% (24)	8.5% (18)	12.3% (26)	2.8% (6)	3.3% (7)	2.8% (6)	0.5% (1)	1.4% (3)	211	
Other	27.8% (5)	11.1% (2)	11.1% (2)	0.0% (0)	11.1% (2)	0.0% (0)	11.1% (2)	5.6% (1)	0.0% (0)	22.2% (4)	18	

Most respondents indicate average to no problems with administering the whole program.

In my particular area of research, I see the need for ships _____ over the next 25 years.



Years Since Completion of Formal Education

20+ years

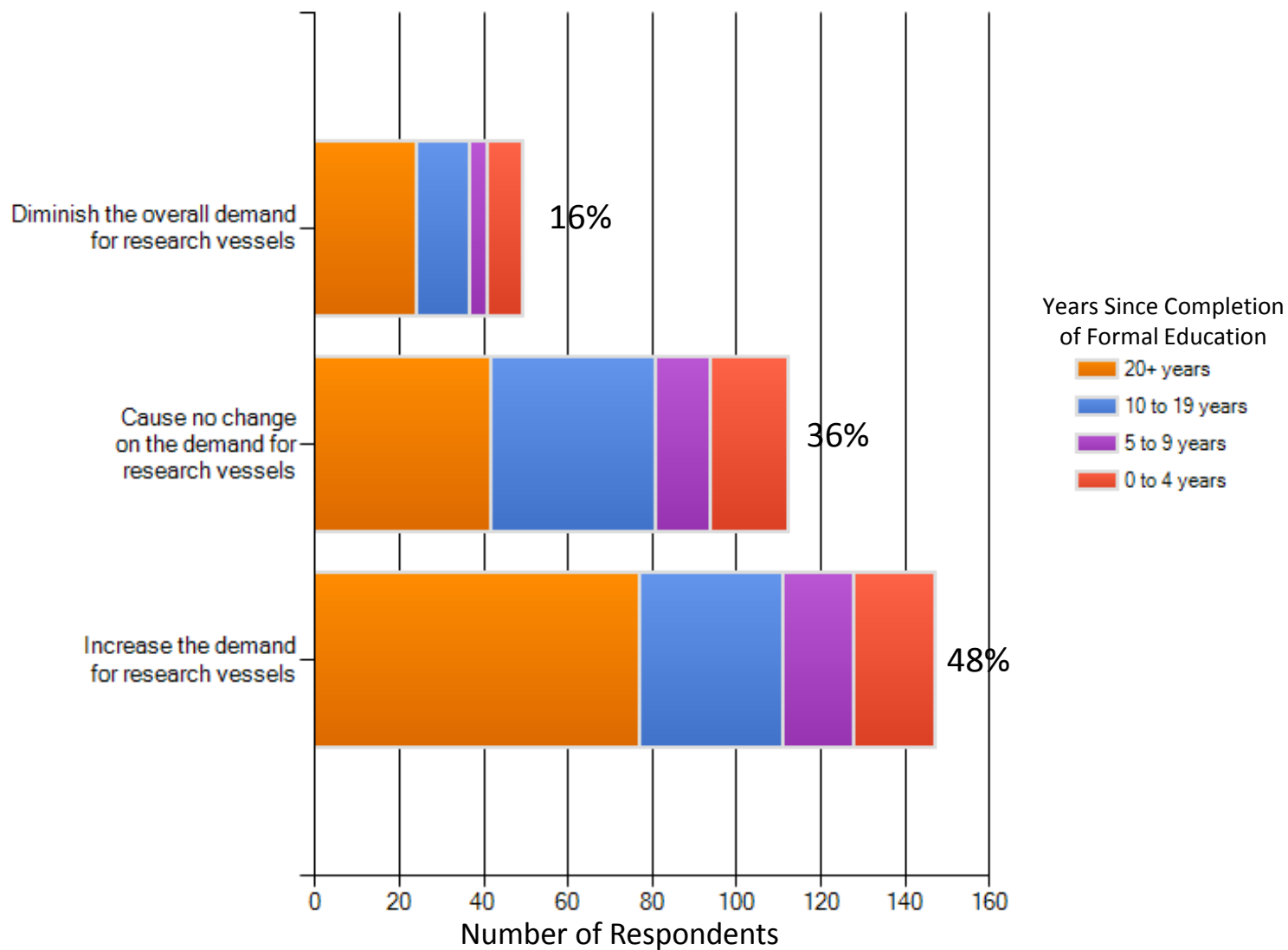
10 to 19 years

5 to 9 years

0 to 4 years

90% of the respondents said the need for ships will remain constant or increase.

Do you believe new observational technologies will

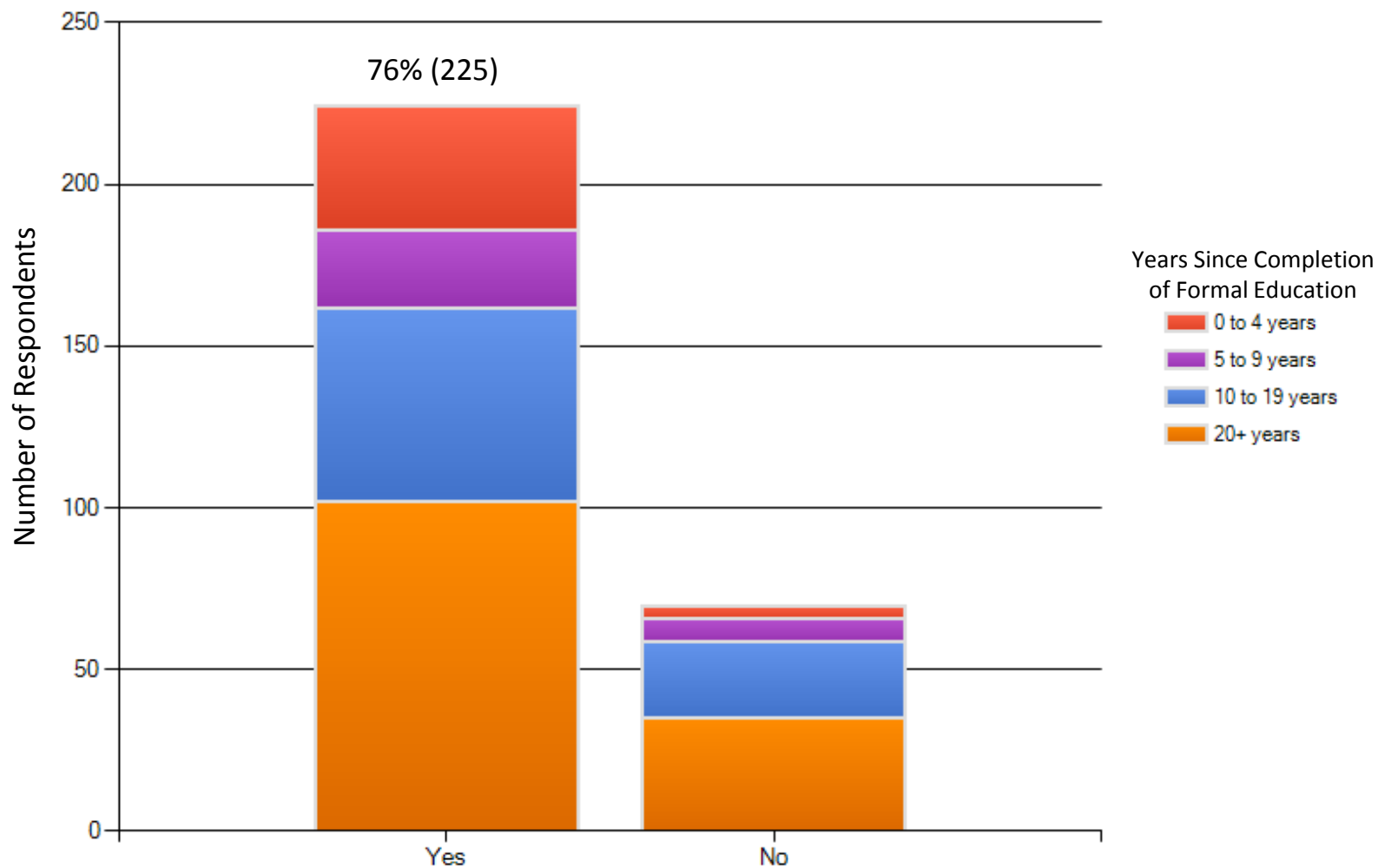


What factors would positively influence your desire to request ship time for field work in the future? - **Written responses only.**

There were 227 written responses, 86% fell into the following two categories:

- Availability of funds/Agency support– **63% (144)**
- Ships and asset availability/scheduling and getting to ROIs - **23% (53)**

In your opinion, would training or a mentoring program for potential or new Chief Scientists in pre-cruise planning, at sea operations, and post cruise obligations be beneficial?



Written Responses - In your opinion, would training or a mentoring program for potential or new Chief Scientists in pre-cruise planning, at sea operations, and post cruise obligations be beneficial?

There were 128 written responses categorized as

- *Good idea* – 41% (53); most of the early career (0-4 yr) respondents are in this category.
- *Maybe..* – 17% (22)
- *Probably not* – 17% (22)
- *Not the problem* – 16% (20)
- *Miscellaneous* – 7% (9)

Additional suggestions or comments that would help to improve access to the sea for oceanographic research are welcome (Answered question: 115; 242 skipped this question).

This was the last question and the written responses primarily reiterated the same issues as in prior questions:

- Funding problems/proposal success/agency efforts
- UNOLS operations
- Mentoring
- Other agency scientist's comments