## OCEAN OBSERVATION STUDY: FULL QUESTION BANK

- The following is a complete set of the questions that respondents could potentially see in the survey. However, central to the new survey strategy will be the use of advanced logic that eliminates questions that would be irrelevant to different types of respondents. This strategy will minimize burden, and a large majority of respondents will not be required to respond to the full question set.
- Questions #2 (a respondent's organization type) and #3 (a respondent's type of ocean, coastal, or Great Lakes measurement, observation, or forecasting product or service) will be the principal questions used to tailor the survey experience. The customization will also include tailoring the term used for respondents' businesses (e.g., "your subsidiary," "your division," or "your company") throughout the survey. However, in this document, the neutral term "[business entity]" is used as a placeholder.

## \*\*\*\*\*\*START OF SURVEY QUESTIONS

1.	w nat 1	is the name and location of the business entity that you represent?
		Company Name:
		City:
		State / Country (if outside U.S.):
		Your position:
		Your name:
2.	A. Wh	at organization type best describes your business entity?
		A one-employee business
		A multi-employee business with one location
		A multi-location, <i>U.Sonly</i> business without divisions or subsidiaries
		A division of a larger <i>U.Sonly</i> company
		A subsidiary of a larger <i>U.Sonly</i> company
		A headquarters home office or satellite location of a <i>U.Sonly</i> company with
		separate divisions and/or subsidiaries
		A multi-location, <i>multinational</i> business without divisions or subsidiaries
		A division of a larger <i>multinational</i> company
		A subsidiary of a larger <i>multinational</i> company
		A headquarters home office or satellite location of a <i>multinational</i> company with
		separate divisions and/or subsidiaries
		<asked (1)="" (2)="" divisions="" of="" only="" or="" respondents="" subsidiaries=""></asked>
	W]	hat is the name and location of your business' headquarters?
		<asked (1)="" divisions="" multi-location="" no="" of="" only="" or<="" td=""></asked>
		BSIDIARIES OR (2) HEADQUARTERS RESPONDENTS>
		different from your operating location, what is the location of your company's
	ho	me office?

<THE FOLLOWING QUESTION IS AN EXIT-AND-THANK-YOU POINT FOR RESPONDENTS WHO INDICATE THEY ARE NOT INVOLVED IN MEASUREMENT, OBSERVATION, OR FORECASTING>

3.	Please select the answer choice(s) below that describe your [business entity] (select all that apply):			
	-	We are a <i>provider</i> of physical or data infrastructure for ocean, coastal, or Great Lakes measurement, observation, or forecasting purposes (e.g., platforms, instruments, sensors, data communications, IT infrastructure, satellite or air-based marine or maritime observation systems, instruments for navigation and positioning, etc.)		
		We are an <i>intermediary</i> that uses ocean, coastal, or Great Lakes measurements, observations or forecasts to create a value-added data product/service offered for commercial sale (e.g., to power a weather or surf forecast service, evaluate marine or maritime environmental hazards, support fish locating, etc.)		
		We are an <i>end-user</i> that uses ocean, coastal, or Great Lakes measurements, observations or forecasts, but we do not use them to create a value-added data product/service for commercial sale (e.g., a fishing fleet operator, a charter boat service, etc.)		
		We do not provide ocean, coastal, or Great Lakes measurement, observation, or forecasting infrastructure, and we do not use ocean, coastal, or Great Lakes measurements, observations or forecasts in our business [exits survey]		
4.	observinterm	ong has your [business entity] offered ocean, coastal, or Great Lakes measurement, ation or forecast infrastructure (i.e., <i>provider</i> ), value-added data (i.e., <i>ediary</i> ), or final (i.e., end-use) products/services?  Less than 1 year  1 through 3 years  3 through 5 years  More than 5 years  Unknown		
5.		w many discrete locations does your [business entity] have? (Note: multiple logs on a single campus counts as one location.)  1  2  3  4  5  6-9  10 or more		
	B. How (Notes	ED ONLY OF SUBSIDIARIES OR DIVISIONS FROM QUESTION #2> w many discrete locations does your ultimate parent or holding company have? : Please include all division and subsidiary locations; multiple buildings on a single s counts as one location.)		

	2
	3
	4
	5
	6-9
	10 or more
_	To of more
<asked< td=""><td>ONLY OF MULTINATIONAL COMPANIES FROM QUESTION #2&gt;</td></asked<>	ONLY OF MULTINATIONAL COMPANIES FROM QUESTION #2>
	nany of your [business entity's] discrete locations are in the U.S.?
0. 110W II	
	6-9
	10 or more
7. How n	nany employees are currently at your [business entity]?
	1-4
	5-10
	11-20
	21-30
	31-50
	51-100
	101-250
	251-500
	501-1000
	1001-2000
	More than 2000
	Unknown
<b>–</b>	Olikilowii
~ \ CVED	ONLY OF MULTINATIONAL COMPANIES FROM QUESTION #2>
	<del>-</del>
8. How n □	nany employees in your [business entity] are located within the U.S.?  1-4
	5-10
	11-20
	31-50
	51-100
	101-250
	501-1000
	1000-2000
	More than 2000
	Unknown

9. In the next 12 months, do you anticipate employment at your [business entity]?...

	<ul> <li>Increasing</li> <li>Staying the same</li> <li>Decreasing</li> <li>Not yet known</li> </ul>
10.	A. What were your [business entity's] gross revenues for the past year?  \$1-\$200,000 \$200,001-\$500,000 \$500,001-\$1,000,000 \$1,000,001-\$5,000,000 \$5,000,001-\$20,000,000 \$20,000,001-\$100,000,000 \$100,000,001-\$500,000,000 \$500,000,001 or more Unknown
	<asked #2="" companies="" from="" multinational="" of="" only="" question=""> B. What percentage of this revenue is grossed by your U.S. locations (if known)?</asked>
	A. What were your ultimate parent or holding company's gross revenues for the past year?    \$1-\$200,000
	<asked #2="" divisions="" from="" multinational="" of="" only="" or="" question="" subsidiaries=""> B. What percentage of this revenue is grossed by the U.S. locations of your parent or holding company (if known)?</asked>
12.	In the next 12 months, do you anticipate your [business entity's] total ocean, coastal, or Great Lakes observation-, measurement- or forecasting-related revenue:  Increasing  Staying the same Decreasing Not yet known
13.	What share of your [business entity's] revenue is from marine- or maritime-related

products/services?

14.	A. What is the <i>estimated</i> share of your [business entity's] marine- or maritime-related revenue that is from providing ocean, coastal, or Great Lakes observation, measurement or forecasting products/services?
	%
	<asked companies="" measurement,<br="" multiple="" of="" only="" selected="" that="">OBSERVATION, AND FORECASTING TYPES IN QUESTION #3; OPTIONS CHOSEN WILL BE LIMITED TO THE TYPES SELECTED IN QUESTION #3&gt; B. What is your <i>best estimate</i> of how this revenue splits among your [business entity's] provider, intermediary, and end-use products/services?</asked>
	Provider:% Intermediary:% End-User:%
	This split cannot be estimated: □
15.	What is your <i>best estimate</i> of how your [business entity's] total ocean, coastal, or Great Lakes observation-, measurement- or forecasting-related revenue is split among customer types?
	Private individuals or households in the U.S:% Private companies, research institutions, universities, etc. in the U.S.:% U.S. Federal Government:
MU AC WI	THIS QUESTION WILL ONLY BE ASKED OF RESPONDENTS WHO SELECT ULTIPLE TYPES OF MEASUREMENT, OBSERVATION, OR FORECASTING CTIVITY IN QUESTION #3; ONLY CORRESPONDING TYPES IN QUESTION #3 ILL BE SHOWN>  A. What is your best estimate of how your [business entity's] total ocean, coastal, or
	Great Lakes observation-, measurement- or forecasting-related <i>provider</i> products/services revenue is split among customer types?

Private individuals or households in the U.S:

State and local governments in the U.S.:

U.S. Federal Government:

Foreign customers of any type:

Private companies, research institutions, universities, etc. in the U.S.:

\_%

\_%

%

\_%

\_%

%

G	What is your <i>best estimate</i> of how your [business entity's] total reat Lakes observation-, measurement- or forecasting-related <i>int</i> oducts/services revenue is split among customer types?	
Pr U. St	ivate individuals or households in the U.S: ivate companies, research institutions, universities, etc. in the U.S.: S. Federal Government: ate and local governments in the U.S.: preign customers of any type:	% % % %
	. What is your <i>best estimate</i> of how your [business entity's] total reat Lakes observation-, measurement- or forecasting-related <i>en</i>	
	oducts/services revenue is split among customer types?	u-usei
Pr U.	ivate individuals or households in the U.S: ivate companies, research institutions, universities, etc. in the U.S.: S. Federal Government:	% %
	ate and local governments in the U.S.:  oreign customers of any type:	% %
FORE 17. Fr	S QUESTION WILL BE ASKED ONLY OF RESPONDENTS EIGN SALES IN QUESTION #15> rom which of these markets does your [business entity's] U.S. lognificant (i.e., at least 5%) shares of ocean, coastal, or Great Lab	ocations receive kes observation-,
	easurement- or forecasting-related revenue? (Select all that appl U.S. and its overseas territories	y):
_	Greenland	
	Mexico/Central America	
	Non-U.S. Caribbean	
	South America	
	Continental Europe	
	UK/Ireland	
	East Europe/Russia Other European (Mediterranean	
	Other European/Mediterranean Japan	
	South Korea	
_	China/Hong Kong	
_		
	India	
	Southeast Asia	
	Traditalia, T.C.V. Dearand	
	Middle East	
	Other Non-U.S. Asia/Pacific	
	111100	
	Other Indian Ocean Nations Arctic/Antarctica	
	AMCHC/AMILAICHCA	

18.		Biotechnology Wind energy Wave and tidal energy Renewable energy, except wind and wave energy Oil and gas industries Fishing industry Aquaculture Ports and harbors Cargo shipping Cruise ships and passenger ships
'P IN	ROV QU Wl	Other: QUESTION WILL BE ASKED ONLY OF RESPONDENTS WHO SELECTED VIDER" AS A MEASUREMENT, OBSERVATION, OR FORECASTING CHOICE ESTION #3> nat kind of ocean, coastal, or Great Lakes observation-, measurement- or forecasting-nated infrastructure does your [business entity] sell? (select all that apply): Hydrographic survey sensors/instruments/systems Shallow geophysical survey sensors/instruments/systems Geotechnical sensors/instruments/systems (including cameras) Physical oceanographic sensors/instruments/systems Biological oceanographic sensors/instruments/systems Biological oceanographic sensors/instruments/systems Navigation and positioning sensors/instruments/systems Platforms such as towed systems, or remote or autonomous underwater vehicles Data communications and Information Technology infrastructure or software platforms/systems Other

<THIS QUESTION WILL BE ASKED ONLY OF RESPONDENTS WHO SELECTED "INTERMEDIARY" AS A MEASUREMENT, OBSERVATION, OR FORECASTING CHOICE IN QUESTION #3>

20. If your [business entity]utilizes "IN SITU" data (i.e., data from observations or measurements conducted within or upon a marine environment) from coastal, or Great Lakes observation, measurement, or forecasting to generate value-added data in your products/services, what kind of IN SITU data do you use? (select all that apply):  □ Bathymetric data □ Geophysical data □ Geotechnical data □ Physical oceanographic data □ Chemical oceanographic data □ Biological oceanographic data □ Other □ We do not utilize IN SITU data
<this "intermediary"="" #3="" a="" as="" asked="" be="" choice="" forecasting="" in="" measurement,="" observation,="" of="" only="" or="" question="" respondents="" selected="" who="" will=""> 21. If your [business entity] utilizes "REMOTELY SENSED" data (i.e., data from sources outside a marine environment) from ocean, coastal, or Great Lakes observation, measurement, or forecasting to generate your value-added data products/services, what kind of REMOTELY SENSED data do you use? (select all that apply): <ul> <li>Aircraft observations</li> <li>Satellite observations</li> <li>Shore observations</li> <li>Other</li> <li>We do not utilize REMOTELY SENSED data</li> </ul></this>
<this an="" exit-and-thank-you="" for="" is="" p="" point="" question="" respondents<=""> WHO INDICATE THEY ARE UNAWARE OF IOOS&gt; 22. Is your [business entity] aware of the Integrated Ocean Observing System (IOOS) and, if so, does your [business entity] contribute to IOOS infrastructure or utilize IOOS-coordinated data, including to create value-added products/services? (Select all that apply): <ul> <li>We are unaware of IOOS</li> <li>We are aware of IOOS</li> <li>We are an IOOS provider; we contribute to IOOS infrastructure</li> <li>We are an IOOS intermediary; we create value-added products/services from IOOS-coordinated data</li> <li>We are an IOOS end-user; we use IOOS-coordinated data</li> </ul></this>
<ul> <li>23. Which of the following do you consider issues or barriers to working with IOOS that impact your [business entity]? (select all that apply):</li> <li>Limited access to IOOS data streams</li> <li>Structure of IOOS data streams limits usability</li> <li>Lack of documentation on IOOS data streams</li> <li>IOOS data does not adequately cover the geography needed</li> <li>Difficulties or limitations with adapting new technology into IOOS</li> </ul>

		Limited knowledge about future investment and development plans for the IOOS
		System  Hard to find ampleyees who can work with the IOOS infrastructure
		Hard to find employees who can work with the IOOS infrastructure
		Hard to find employees who can work with the IOOS data
		State or local regulations or restrictions
		Other:
		None of the above
		Unknown
		CHOICES IN THIS QUESTION WILL BE TAILORED TO THE MEASUREMENT,
		RVATION, AND FORECASTING TYPES SELECTED IN QUESTION #3>
24.		the future, does your [business entity] plan to (select all that apply):
		OS Infrastructure plans
		Deploy new infrastructure products/services for IOOS
		Expand the capabilities of our infrastructure products/services for IOOS
		Make no changes to our infrastructure products/services for IOOS
		Reduce our infrastructure products/services for IOOS
		Eliminate our infrastructure products/services for IOOS
	IO	OS Intermediary plans
		Create new value-added products/services that utilize IOOS-coordinated data
		Expand the capabilities of our value-added products/services that utilize IOOS-
		coordinated data
		Make no changes to our value-added products/services that utilize IOOS-coordinated
		data
		Reduce our value-added products/services that utilize IOOS-coordinated data
		Eliminate our value-added products/services that utilize IOOS-coordinated data
		-
	<u>IO</u>	<u>OS End-User plans</u>
		Develop new end-use IOOS-coordinated data products/services
		Expand the capabilities of our end-use IOOS-coordinated data products/services
		Make no changes to our end-use IOOS-coordinated data products/services
		Reduce our end-use IOOS-coordinated data products/services
		Eliminate our end-use IOOS-coordinated data products/services
25	<b>T A 7</b> 1	high of the following improvements by IOOS would halp your [husiness entity]?
25.		hich of the following improvements by IOOS would help your [business entity]?
	•	elect all that apply):  Better information and data stream standardization
		More openness to opportunities for new innovations
		Greater focus on the interests of small or new enterprises
		Greater focus on the interests of large or established enterprises
		Other: (please describe) None of the above
		INOIDE OF THE ADOVE
	_	
26.		you feel your [business entity's] current or future workforce could benefit from
		ecific training for working with IOOS data or providing IOOS infrastructure?
		Yes, option open-ended

		No		
		Uncertain		
27.		Are there changes to IOOS that would make it easier for your [business entity] to provide		
	inf	rastructure or related services or products to the IOOS system?		
		Yes, option open-ended		
		No		
		Uncertain		
28.	Ar	e there changes to IOOS that would make it easier to for your [business entity] to		
	uti]	lize IOOS data in value-added products?		
		Yes, option open-ended		
		No		
		Uncertain		
29.	If k	known or available, what is your [business entity's] D-U-N-S number?		
30.		n you recommend other recipients for this survey? These could be other parts (such as		
		ner subsidiaries, divisions, or a headquarters) of your company, or could be other		
	-	alified companies.		
		Yes		
		No		
	11 )	ves, please list below (name of company and contact, if available):		
31.	Are	e there any additional comments, concerns, or recommendations that you would wish		
		OS to know?		