

**ANNEX #2**

**to  
MEMORANDUM of AGREEMENT  
NOS-MOA-2011-080**

**among the**

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
U.S. DEPARTMENT OF COMMERCE**

**and**

**ALASKA OCEAN OBSERVING SYSTEM**

**and**

**CONOCOPHILLIPS COMPANY**

**and**

**SHELL OFFSHORE INC. AND SHELL GULF OF MEXICO INC.**

**and**

**STATOIL USA E&P Inc.**

**FOR THE PURPOSE OF SHARING, ARCHIVING AND DISTRIBUTING  
ENVIRONMENTAL SCIENCE DATA IN THE U.S. ARCTIC**

**NOS Agreement Code: MOA-2011-080 (Annex #2)/8528**



## I. PARTIES AND PURPOSE

- A. This Annex #2 is entered into pursuant to Section IV of the *Memorandum of Agreement dated 23 August, 2011, by and among the National Oceanic and Atmospheric Administration, U.S. Department of Commerce, and Shell Exploration and Production Company, ConocoPhillips Company, and Statoil USA E&P Inc. for the Purpose of Supporting Collaborative Arctic Coastal And Ocean Science in U.S. Arctic Waters* (NOS Agreement Code: MOA-2011-080/8400) (hereinafter referred to as "the Agreement") and is subject to the Agreement.
- B. The parties to this Annex #2 are the National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce, the Alaska Ocean Observing System (AOOS), which is part of the NOAA-coordinated U.S. Integrated Ocean Observing System, and Shell Gulf of Mexico Inc. (SGOMI) and Shell Offshore Inc. (SOI) (SGOMI and SOI being hereinafter collectively referred to as "Shell"), ConocoPhillips Company, and Statoil USA E&P Inc. (hereinafter referred to as "Industry Parties"), individually and collectively referred to herein as "Party" or "Parties."
- C. The purpose of this Annex #2 is for Industry Parties to provide Arctic environmental science data to AOOS so that AOOS can make these data available for analysis and use by NOAA researchers and others in the scientific research community, operational NOAA programs and the general public.

## II. AUTHORITIES

- A. The legal authorities for NOAA to participate in this Annex #2 are:
1. The Coast and Geodetic Survey Act, 33 U.S.C. § 883a et seq., which authorizes the Secretary of Commerce (NOAA) to, *inter alia*, collect and disseminate a variety of data for scientific and engineering purposes. The Act also authorizes NOAA to enter into agreements with, and to receive and expend funds made available by, any State or subdivision thereof, any Federal agency, or a public or private organization, or individual, for surveys or investigations authorized by the Act, or for performing related surveying and mapping activities, including special-purpose maps, and for the preparation and publication of the results thereof, and to establish the terms of any agreement entered into under the Act, including the amount of funds to be received, and to contribute that portion of the costs incurred by NOAA, including ship time and personnel expenses, which NOAA determines represents the amount of benefits derived by the Administration from the agreement;

2. The Marine Mammal Protection Act (MMPA), 16 U.S.C. § 1361 et seq., which provides for the protection of marine mammals, with the primary objective of maintaining the health and stability of the marine ecosystem and which authorizes the Secretary of Commerce to enter into such contracts, leases, cooperative agreements, or other transactions as may be necessary to carry out the purposes of subchapter II or subchapter V of the MMPA and on such terms as deemed appropriate with any Federal or State agency, public or private institution, or other person; and
3. The Integrated Coastal and Ocean Observation System Act of 2009, 33 U.S.C. §§ 3601 et seq., which establishes NOAA as the Federal lead agency for the implementation and administration of the Integrated Ocean Observing System.

### III. STATEMENT OF WORK

- A. Under this Annex #2, the Industry Parties, in their individual sole discretion, will provide to AOOS copies of environmental science data acquired by the Industry Parties described in Exhibit 2-A attached hereto ("Information"). Exhibit 2-A will include Information description, source, format, time period, location, ownership; identify the Party submitting the Information and the current location or procedure for submitting Information to AOOS.

Exhibit 2-A shall be reviewed on an annual basis by the Parties to update submission procedures, information offerings, and instrumentation setup, as appropriate. Notwithstanding the foregoing, each Industry Party may in its sole discretion submit additional exclusively owned information, pursuant to this Annex #2, upon written notice to all Parties, including a detailed description of the additional information to be submitted.

It is the intention of the Industry Parties to transmit the Information to AOOS; however, failure to provide all Information does not give rise to any claim or liability. Nothing in the Agreement conveys or transfers any ownership rights in or to the Information.

Information provided may include data resulting from discrete observations or live streams that have been verified through defined quality assurance/quality control and calibration procedures, derivative data produced by analysis of discrete observations or the output from models, or reports that have been produced through incorporation and processing of these data. Information will be transmitted pursuant to Exhibit 2-A.

Information submitted will include full metadata to the extent available, including any restrictions on publication and requirements for attribution in order to encourage responsible use and care of the data. Metadata describes the location, instruments,

methods used to collect and analyze the data, and other information regarding the data. The Industry Parties agree to provide appropriate metadata and to update changes to the metadata when they occur (e.g. to update the location information if the instrument is moved). Unless otherwise stated, the rights to use and redistribution of the data itself, described in Exhibit 2-A, also apply to metadata associated with the data.

- B. Once the Information is received, AOOS will, at no cost to the Industry Parties, provide:
1. A secure website to enable users to discover and access Industry Parties' Information as detailed in Exhibit 2-A.
  2. A mirror site to store Exhibit 2-A Information in a secure archive for enhanced security and backup redundancy.
  3. Timely archival of and access to Exhibit 2-A Information.
  4. Maintenance of the integrity and lineage of Exhibit 2-A Information provided in Exhibit 2-A, by developing procedures for accreditation and immutability of Exhibit 2-A Information for all data provided to the public.
  5. Procedures for and regular tracking/reporting of third party use of Exhibit 2-A Information.
  6. Integration of the Exhibit 2-A Information into regional scientific products.
- C. NOAA will, at no cost to the Industry Parties, provide:
1. Through the U.S. AOOS Program Office:
    - a. A coordination role between NOAA and AOOS
    - b. National-level visibility of the Exhibit 2-A Information.
  2. Through the NOAA National Data Centers:
    - a. A permanent stewarded data archive for Exhibit 2-A Information, as detailed in Exhibit 2-A, which in some cases may be retrieved through the AOOS data website described in section III.B.1.
    - b. Timely archival of and access to Exhibit 2-A Information.
    - c. Integration of Exhibit 2-A Information into scientific products (i.e., World Ocean Database, bathymetric databases, State of the Climate reports).
    - d. Public access to information resulting from collaboration under this Annex #2
    - e. Compliance with OMB and NOAA guidelines implementing the Information Quality Act prior to the dissemination to the public of information resulting from collaboration under this Annex #2.

#### IV. TERMS AND CONDITIONS

- A. Disclosure. The Parties agree that the Industry Parties are not limited by this Annex #2 or the overarching Agreement, and may share the same Information provided to NOAA and AOOS herein with any entity as they see fit. Each Party will recognize each other, as appropriate, as the source of any Information used in presentations, reports, peer-reviewed literature, newsletters, and Web communications.
- B. Claims and Liabilities. Each Party shall be solely responsible for any claims, liabilities or obligations related to its disclosure or acceptance of Information, and for any damages it incurs arising from or related to the acquisition, distribution, maintenance, archiving, or use of any Information, including personal injury or death, property damage, and/or environmental liabilities. Such adjudications against NOAA will be promptly pursued under the Federal Tort Claims Act, 28 U.S.C. § 2671 et seq., the Federal Employees Compensation Act, 5 U.S.C. § 8101 et seq., or such other legal authority as may be pertinent. Notwithstanding the foregoing, no Industry Party shall have any obligation or liability to any other Industry Party for accessing, receiving, using or relying upon in any way, any Information provided by each of the Industry Parties pursuant to this Annex #2.
- C. Dispute Resolution. In the event of a dispute among the Parties concerning the interpretation or performance of any aspect of this Annex #2, the Party initiating such dispute shall provide the other Parties with written notice of the ground for the dispute and a request for discussions. Within fourteen (14) days (or such other period of time the Parties mutually agree upon) of written notice from the Party to the other Parties, the Parties shall meet and attempt to reach an amicable resolution. If the dispute is not resolved within fourteen (14) days of such meeting, or such time thereafter as is mutually agreed upon, any Party may refer the dispute to the signatory representatives (or their successors) in Section VII of this Annex #2 and/or the Agreement for appropriate resolution.
- D. Representations and Warranties:
1. NOAA, AOOS and the Industry Parties make no warranty regarding Information disclosed pursuant to this Annex #2, expressed or implied, nor does the fact of distribution by NOAA or AOOS of such Information constitute such a warranty. NOAA, AOOS and Industry Parties cannot assume liability for any damages caused by any errors or omissions in use or reliance upon such Information, nor as a result of the failure of such Information to function on a particular system.
  2. Industry Parties hereby represent and warrant that they have the right and authority to disclose any Information provided pursuant to this Annex #2 to NOAA and AOOS (or their representatives). All Information is provided "AS

IS." Subject only to the foregoing, the Industry Parties make no representations and extend no warranties, express or implied, and assume no responsibilities or liabilities whatsoever including with respect to, but not limited to, the following:

- a. The completeness, utility, or accuracy of any Information provided pursuant to this Annex #2; and
  - b. Merchantability or fitness for a particular purpose of any Information provided by the Industry Parties pursuant to this Annex #2; and
  - c. The freedom from infringement of any patent, trade secret and/or copyright by any Party's use of this Information provided by the Industry Parties.
3. NOAA and AOOS represent and warrant that NOAA and AOOS have the necessary authority, capability and capacity to receive, conduct quality control, store, archive, disperse and use the Information as contemplated herein.
  4. In cases where NOAA quality-controls Industry Party Information to re-distribute in its own data feeds and/or uses Industry Party Information in its own U.S. Government-issued products and services, that Information will be covered by NOAA's own disclaimers of liability.
  5. With the exception of Industry Party Information covered by subsection IV.D.4., NOAA and/or AOOS shall ensure that the following disclaimer is included in the metadata attached to Information provided to NOAA and/or AOOS by any of the Industry Parties:

"DISCLAIMER of LIABILITY: The user assumes the entire risk related to use of this data and information. NOAA and/or AOOS and their third party data providers are providing this data and information "as is," and disclaim any and all warranties, whether express or implied, including (without limitation) any warranties of completeness, utility, accuracy, merchantability or fitness of this data for a particular purpose.

## V. CONTACTS

A. The contacts of each Party to this Annex #2 are:

1. Krisa M. Arzayus  
Chief, Marine Data Stewardship Division  
National Oceanographic Data Center  
1315 East-West Highway, Room 4651  
Silver Spring, MD 20910  
Phone: (301) 713-3280 x119  
Fax : (301) 713-3302  
E-mail: krisa.arzayus@noaa.gov

2. Suzanne Skelley  
Deputy Director, U.S. Integrated Ocean Observing System  
1100 Wayne Ave, Room 1231  
Silver Spring, MD 20910  
Phone: (301) 427-2434  
Fax: (301) 427-2073  
E-mail: [suzanne.skelley@noaa.gov](mailto:suzanne.skelley@noaa.gov)
3. Molly McCammon  
Executive Director, Alaska Ocean Observing System  
1007 West Third Avenue, Suite 100  
Anchorage, AK 99501  
Phone: (907) 644-6703  
Fax: (907) 644-6780  
E-mail: [mccammon@aoos.org](mailto:mccammon@aoos.org)
4. Caryn Rea  
Senior Staff Biologist  
ConocoPhillips Company  
700 G. Street, ATO 1966  
Anchorage, Alaska  
Phone: 907-265-6515  
Fax: 907-265-6216  
E-mail: [caryn.rea@conocophillips.com](mailto:caryn.rea@conocophillips.com)
5. A. Michael Macrander, Ph.D.  
Science Lead – Shell Alaska  
3601 C Street, Suite 1000  
Anchorage, AK 99516  
Phone: 907-646-7123  
Fax: 907-646-7135  
E-mail: [A.Macrander@Shell.com](mailto:A.Macrander@Shell.com)
6. Ahmed Osman  
HSE Manager  
Statoil USA E&P Inc.  
3800 Centerpoint Drive, Suite 920  
Anchorage, Alaska 99503  
Phone: 907-433-5713  
Fax: 907-433-5799  
E-mail: [aosm@statoil.com](mailto:aosm@statoil.com)

- B. The Parties agree that if there is a change regarding the information in this section, the Party making the change will timely notify each of the other Parties in writing of such change.

## **VI. TERM, AMENDMENTS, AND TERMINATION**

- A. This Annex #2 will become effective when signed by NOAA, AOOS, and each of the Industry Parties that executes this Annex #2. The Annex #2 will be in effect only among NOAA, AOOS and the Industry Party or Parties that sign this Annex #2. The Annex #2 will expire at midnight EST on November 1, 2016, or at the end of the open water drilling season in calendar year 2016, whichever occurs earlier.
- B. This Annex #2 may be amended within its scope and prior to its expiration by mutual written agreement of all of the Parties.

Notwithstanding the foregoing paragraph of this Section VI.B., and the right of each Industry Party to submit additional exclusively owned information pursuant to Section III.A, in such case, the agreement of the other Parties to this Agreement is not required.

- C. Any Party may terminate its participation in this Annex #2 by (1) providing thirty days written notice to all other Parties; or (2) mutual written agreement of the Parties.
- D. Upon termination of this Annex #2 for any reason, Information provided pursuant to this Annex #2 shall continue to be available to all the Parties to the Annex #2 and (to the extent legally permissible) to the public.
- E. Each Party shall be solely responsible for the payment of any expenses it incurs in implementing this Annex #2.
- F. In the event this Annex #2 is terminated, each Party shall be solely responsible for the payment of any expenses it has incurred.
- G. NOAA's participation in this Annex #2 is subject to the availability of appropriated funds.

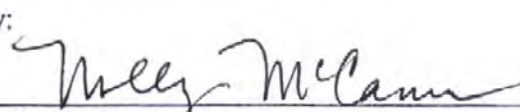


**VII. APPROVALS**

- A. ACCEPTED AND APPROVED for  
NATIONAL OCEANIC and ATMOSPHERIC ADMINISTRATION  
U.S. DEPARTMENT OF COMMERCE

By:  Date: 12/11/12  
Dr. Jane Lubchenco  
Under Secretary of Commerce  
for Oceans and Atmosphere  
and NOAA Administrator

- B. ACCEPTED AND APPROVED for  
ALASKA OCEAN OBSERVING SYSTEM

By:  Date: 12/14/12  
Molly McCammon  
AOOS Executive Director

- C. ACCEPTED AND APPROVED for  
CONOCOPHILLIPS COMPANY

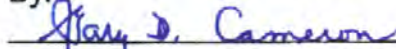
By:  Date: 1/17/2013  
David W. Brown  
Attorney-in-Fact

- D. ACCEPTED AND APPROVED for  
SHELL GULF OF MEXICO INC.

By:  Date: 1/14/2013  
Gary D. Cameron  
Attorney-In-Fact

E. ACCEPTED AND APPROVED for  
SHELL OFFSHORE INC

By:

  
\_\_\_\_\_

Gary D. Cameron  
Attorney-In-Fact

Date: 1/14/2013

F. ACCEPTED AND APPROVED for  
STATOIL USA E&P INC.

By:

  
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Lars Andreas Sunde  
Head of Anchorage Office

Date: 1/15/2013

## Exhibit 2-A

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## Data Deliverables

### Biological Oceanography

#### Zooplankton Ecology

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Zooplankton</b> <ul style="list-style-type: none"> <li>• CRUISE</li> <li>• STATION</li> <li>• DATE_TIME_LOCATION</li> <li>• GEAR_TYPE</li> <li>• DEPTH_M</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DENSITY_M3</li> <li>• SCIENTIFIC_NAME</li> <li>• LIFE_STAGE</li> <li>• BIOMASS_MG_M3</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2008-2010	Chukchi: Klondike (2008-10) Burger (2008-10) Statoil (2010)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b><i>Chlorophyll</i></b> <ul style="list-style-type: none"> <li>• CRUISE</li> <li>• STATION</li> <li>• DATE_TIME_LO</li> <li>• DEPTH_M</li> <li>• DEPTH_SAMPLE_M</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• CHLA_MG_LO</li> <li>• TOTAL_N_UMOL</li> <li>• NITRITE_UMOL</li> <li>• DIN_UMOL</li> <li>• NITRATE_UMOL</li> <li>• AMMONIUM_UMOL</li> <li>• SILICATE_UMOL</li> <li>• PHOSPHATE_UMOL</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2008-2010	Chukchi: Klondike (2008-10) Burger (2008-10) Statoil (2010)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

## Benthic Ecology

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<p><b><i>Infauna - Benthic Sediments</i></b></p> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_TIME_LOCATION</li> <li>• GEARCODE</li> <li>• GEARSIZE</li> <li>• SIEVE_SIZE</li> <li>• DEPTH_M</li> <li>• TAXON</li> <li>• CODE</li> <li>• FRAGMENT</li> <li>• COUNT_INDIVIDUAL</li> <li>• WEIGHT_GRAMS</li> <li>• INVESTIGATOR</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2008-2010	Chukchi: Klondike (2008-10) Burger (2008-10) Statoil (2010)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

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<p><b>Chemical Sediments</b></p> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_TIME_LO</li> <li>• DEPTH_M</li> <li>• CHLA_MG_CM3</li> <li>• PHAEO_MG_CM3</li> <li>• CHLA_MG_M2</li> <li>• PHAEO_MG_M2</li> <li>• INSTR_CHL</li> <li>• TOTAL_ORG_C_PCT</li> <li>• CONC_C_PCT</li> <li>• CONC_N_PCT</li> <li>• DEL13C</li> <li>• DEL15N</li> <li>• SAMPLE_WT_MG</li> <li>• GRAVEL_PCT</li> <li>• SAND_PCT</li> <li>• MUD_PCT</li> <li>• WATER_PCT</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2008-2010	Chukchi: Klondike (2008-10) Burger (2008-10) Statoil (2010)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b><i>Epibenthic Species</i></b> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• GEAR</li> <li>• STATION</li> <li>• HAUL</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_TIME_LOCAL</li> <li>• DEPTH_M</li> <li>• PHYLUM</li> <li>• CLASS</li> <li>• ORDER</li> <li>• FAMILY</li> <li>• TAXON</li> <li>• ID_LOC</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2009	Chukchi: Klondike Burger	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.



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<p><b>Epibenthic Specimens</b></p> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• GEAR</li> <li>• GEAR_SWATH</li> <li>• STATION</li> <li>• HAUL</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_TIME_LOCAL</li> <li>• DEPTH_M</li> <li>• TOW_QUALITY</li> <li>• DATA_QUALITY</li> <li>• TAXON</li> <li>• FRAGMENT</li> <li>• SPLIT_RATIO</li> <li>• COUNT_RAW</li> <li>• WEIGHT_RAW</li> <li>• TOW_DISTANCE</li> <li>• TOW_AREA_M2</li> <li>• ABUNDANCE_1000M2</li> <li>• BIOMASS_G_1000M2</li> <li>• COUNT_CORRECTED</li> <li>• WEIGHT_CORRECTED</li> <li>• INVESTIGATOR</li> <li>• REPORT</li> </ul>	UAF	File gdb	2009-2010	Chukchi: Klondike (2009-10) Burger (2009-10) Statoil (2010)	COP/Shell (2009) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> , 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

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<b>Redox Measurements</b> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_TIME_LOC</li> <li>• DEPTH_M</li> <li>• REDOX_MV</li> <li>• DEPTH_REDOX_CM</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2010	Chukchi: Klondike Burger Statoil	COP/Shell /Statoil	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b><i>Stable Isotope Filter POM</i></b> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• STATION</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_TIME_LOOC</li> <li>• DEPTH_SAMPLE_M</li> <li>• MASS_C_UG</li> <li>• MASS_N_UG</li> <li>• DEL13C</li> <li>• DEL15N</li> <li>• FILTER_FRACTION</li> <li>• LAB_DUPLICATE</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2010	Chukchi: Klondike Burger Statoil	COP/Shell /Statoil	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1,2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b><i>Stable Isotope Tissue</i></b> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• HAUL</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_TIME_LOC</li> <li>• GEARCODE</li> <li>• DEPTH_M</li> <li>• TAXON</li> <li>• DEL13C</li> <li>• DEL15N</li> <li>• CONC_N_PCT</li> <li>• CONC_C_PCT</li> <li>• SAMPLE_WT_MG</li> <li>• TAXON_TYPE</li> <li>• LIPID_EXTRACT</li> <li>• LAB_DUPLICATE</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2010	Chukchi: Klondike Burger Statoil	COP/Shell /Statoil	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.



## Fisheries

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Fisheries Catch</b> <ul style="list-style-type: none"> <li>• CRUISE</li> <li>• PROSPECT</li> <li>• STATION</li> <li>• GEAR</li> <li>• HAUL</li> <li>• TOW_QUALITY</li> <li>• CPUE_FACTOR</li> <li>• FAMILY_SCI</li> <li>• FAMILY_COM</li> <li>• NAME_SCI</li> <li>• NAME_COM</li> <li>• COUNT</li> <li>• WEIGHT_G</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF (2009) UAF & LGL (2010)	File gdb	2009-2010	Chukchi: Klondike (2009-10) Burger (2009-10) Statoil (2010)	COP/Shell (2009) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Fisheries Capture</b> <ul style="list-style-type: none"> <li>• SHIP</li> <li>• CRUISE</li> <li>• PROSPECT</li> <li>• STATION</li> <li>• GEAR</li> <li>• HAUL</li> <li>• DATE_TIME_LOC</li> <li>• TOW_DURATION</li> <li>• CATCH_VOL</li> <li>• DEPTH_M</li> <li>• DEPTH_GEAR_MAX</li> <li>• LATITUDE_START</li> <li>• LONGITUDE_START</li> <li>• LATITUDE_END</li> <li>• LONGITUDE_END</li> <li>• TOW_DIST</li> <li>• TOW_QUALITY</li> <li>• CPUE_FACTOR</li> <li>• HAUL_NOTE</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF (2009)/ UAF & LGL (2010)	File gdb	2009-2010	Chukchi: Klondike (2009-10) Burger (2009-10) Statoil (2010)	COP/Shell (2009) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Fisheries Specimen</b> <ul style="list-style-type: none"> <li>• CRUISE</li> <li>• STATION</li> <li>• GEAR</li> <li>• HAUL</li> <li>• NAME_SCI</li> <li>• SPECIMEN_NUMBER</li> <li>• LENGTH_TYPE</li> <li>• LENGTH_MM</li> <li>• WEIGHT_G</li> <li>• SEX</li> <li>• AGE</li> <li>• DIET</li> <li>• SI_13C</li> <li>• SI_15N</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF (2009)/UAF & LGL (2010)	File gdb	2009-2010	Chukchi: Klondike (2009-10) Burger (2009-10) Statoil (2010)	COP/Shell (2009) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.



## Seabirds

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery ?	Available for Public Release Upon Transmittal?
<b>Seabird Observations</b> <ul style="list-style-type: none"> <li>• OBSERVATION_ID</li> <li>• TRANSECT_ID</li> <li>• DATE_TIME_LOC</li> <li>• SPECIES</li> <li>• TOTAL_COUNT</li> <li>• DISTANCE_CATEGORY</li> <li>• OBS_ANGLE_DEGREE</li> <li>• AGE_CLASS</li> <li>• HABITAT</li> <li>• BEHAVIOR</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	ABR, Inc.	File gdb	2008 - 2010	Chukchi: Klondike (2008-10) Burger (2008-10) Statoil (2010)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery ?	Available for Public Release Upon Transmittal?
<b>Seabird Transects</b> <ul style="list-style-type: none"> <li>• TRANSECT_ID</li> <li>• LINE_ID</li> <li>• LINE_REP</li> <li>• DATE_TIME_START_LOC</li> <li>• DATE_TIME_END_LOC</li> <li>• TRANSECT_TIME_ELAPSE</li> <li>• TRANSECT_START_LATITUDE</li> <li>• TRANSECT_START_LONGITUDE</li> <li>• TRANSECT_END_LATITUDE</li> <li>• TRANSECT_END_LONGITUDE</li> <li>• BEAUFORT</li> <li>• VISIBILITY_KM</li> <li>• OBSERVER_CONDITIONS</li> <li>• ICE_COVER_PCT</li> <li>• TRANSWIDTH_M</li> <li>• OBSERVER</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	ABR, Inc.	File gdb	2008 - 2010	Chukchi: Klondike (2008-10) Burger (2008-10) Statoil (2010)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

## Marine Mammal Ecology

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<p><b>Marine Mammal Effort and Observations</b></p> <ul style="list-style-type: none"> <li>• ID_KEY</li> <li>• OBS_OR_EFF</li> <li>• SHIP</li> <li>• CRUISE</li> <li>• LINE_ID</li> <li>• LINE_REP</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DEPTH_M</li> <li>• WATCH</li> <li>• RECORDED_BY</li> <li>• OBSERVER_NO</li> <li>• OBSERVER_LOC</li> <li>• OBSERVER_PORT</li> <li>• OBSERVER_CENT ER</li> <li>• OBSERVER_STAR BRD</li> <li>• BEAUFORT</li> <li>• VISIBILITY</li> <li>• GLARE_AMT</li> <li>• GLARE_FROM</li> </ul>	Oasis Environmental, Inc.	File gdb	2008-2010	Chukchi: Klondike (2008-10) Burger (2008-10) Statoil (2010)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• GLARE_TO</li> <li>• ICE_COVER_PCT</li> <li>• PACK_ICE_DIST_KM</li> <li>• START_DATE_TIME_LOC</li> <li>• END_DATE_TIME_LOC</li> <li>• START_LATITUDE</li> <li>• START_LONGITUDE</li> <li>• END_LATITUDE</li> <li>• END_LONGITUDE</li> <li>• SIGHTING_ID</li> <li>• SIGHTING_REC_NO</li> <li>• SPECIES</li> <li>• INDIVIDUALS</li> <li>• JUVENILES</li> <li>• WHERE_AT</li> <li>• WHERE_TO</li> <li>• BEHAVIOR_1</li> <li>• BEHAVIOR_2</li> <li>• REACTION</li> <li>• PACE</li> <li>• MOVEMENT</li> <li>• WATER_ICE</li> <li>• RETICLES</li> <li>• SIGHTING_DISTA</li> </ul>									

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
NCE_M • SIGHTING_CUE • ID_RELIABILITY • WIND_SPEED_M_SEC • WIND_HDG • TEMP_AIR_C • SST_C • SALINITY_PSU • PRESSURE_BAR • REPORT • CONTRACTOR • NOTES									

### ***Chemical Oceanography***

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
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Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b><i>Ocean Acidification</i></b> <ul style="list-style-type: none"> <li>• CRUISE</li> <li>• SECT_ID</li> <li>• STATION</li> <li>• CASTNO</li> <li>• SAMPNO</li> <li>• BTLNBR</li> <li>• DATE_TIME_LOC</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DEPTH_M</li> <li>• DIC</li> <li>• DIC_FLAG_W</li> <li>• TA</li> <li>• TA_FLAG_W</li> <li>• PH</li> <li>• PH_FLAG_W</li> <li>• PCO2</li> <li>• PCO2_FLAG_W</li> <li>• OMEGA_CA</li> <li>• OMEGA_CA_FLAG_W</li> <li>• OMEGA_AR</li> <li>• OMEGA_AR_FLAG_W</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	UAF	File gdb	2010	Chukchi : Klondike Burger Statoil	COP/Shell/Statoil	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1,2012 all metadata and data will be available for public release upon transmittal.

## Passive Acoustics

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<p><b>Acoustic Acquisition</b></p> <ul style="list-style-type: none"> <li>• CLIENT_OPERATOR</li> <li>• RECORDER_ID</li> <li>• RECORDER_TYPE</li> <li>• RECORDER_SERIAL_NUM</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• LATITUDE_ANCHOR</li> <li>• LONGITUDE_ANCHOR</li> <li>• LOCATION</li> <li>• BOTTOM_DEPTH_M</li> <li>• DEPLOY_DATE_LOC</li> <li>• DEPLOY_TIME_LOC</li> <li>• DEPLOYMENT</li> <li>• REC_START_DATE_LOC</li> <li>• REC_START_TIME_LOC</li> <li>• REC_STOP_DATE_L</li> </ul>	JASCO Research	File gdb	2009-2010	Chukchi: <u>Acoustic Arrays</u> Barrow Array (2009-10) Cape Lisburne Array (2009-10) Point Lay Array (2009-10) Wainwright Array (2009-10) <u>Acoustic Study Areas</u> Burger (2010) Klondike (2010) Statoil (2010)	COP/Shell (2009) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.



Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• OC</li> <li>• REC_STOP_TIME_LOC</li> <li>• AUTORELEASE_DATE_LOC</li> <li>• AUTORELEASE_TIME_LOC</li> <li>• ACOUST_RELEASE_CODE</li> <li>• RECOVER_DATE_LOC</li> <li>• SAMPLE_RATE_HZ</li> <li>• BIT_DEPTH</li> <li>• DUTY_CYCLE_ON</li> <li>• DUTY_CYCLE_PCT</li> <li>• RECORDER_MODEL</li> <li>• DYR_LOWER_LIM</li> <li>• DYR_UPPER_LIM</li> <li>• PROGRAM_NAME</li> <li>• STUDY_YEAR</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>									
<b>Acoustic Sound Clips</b> <ul style="list-style-type: none"> <li>• RECORDER_ID</li> <li>• SOUND_CLIP</li> <li>• SOUND_SOURCE</li> </ul>	JASCO Research	File gdb	2008-2010	Chukchi: <u>Acoustic Arrays</u> Barrow Array (2009-10)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	TDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom	No	Initial metadata released to public through AOOS data

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• RECORD_DATE_LO C</li> <li>• RECORD_TIME_LO C</li> <li>• DESCRIPTION</li> <li>• STUDY_YEAR</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>				Cape Lisburne Array (2008-10) Point Lay Array (2010) Wainwright Array (2009)			( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.		system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<b>Acoustic Sound Supporting Files</b>	JASCO Research	*.wav *.png *.xls	2008-2010	Chukchi: <u>Acoustic Arrays</u> Barrow Array (2009-10) Cape Lisburne Array (2008-10) Point Lay Array (2010) Wainwright Array (2009)	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
									1,2012 all metadata and data will be available for public release upon transmittal.
<b>Ambient Noise</b> <ul style="list-style-type: none"> <li>• RECORDER_ID</li> <li>• SPECTRA_PLOT</li> <li>• DESCRIPTION</li> <li>• REC_START_DATE_LOC</li> <li>• REC_START_TIME_LOC</li> <li>• REC_STOP_DATE_LOC</li> <li>• REC_STOP_TIME_LOC</li> <li>• STUDY_YEAR</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	JASCO Research	File gdb	2007-2010	Chukchi: <u>Acoustic Arrays</u> Barrow Array (2009-10) Cape Lisburne Array (2010) Point Lay Array (2007-2010) Wainwright Array (2010) <u>Acoustic Study Areas</u> Klondike (2009) Statoil (2010)	COP/Shell (2007-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1,2012 all metadata and data will be available for public release upon transmittal.
<b>Ambient Noise Supporting Files</b>	JASCO Research	*.png *.jpg	2007-	Chukchi: <u>Acoustic</u>	COP/Shell (2007-09)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data	No	Initial metadata

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
			2010	<u>Arrays</u> Barrow Array (2010) Cape Lisburne Array (2010) Point Lay Array (2007-2010) Wainwright Array (2010) <u>Acoustic Study Areas</u> Klondike (2009) Statoil (2010)	COP/Shell /Statoil (2010)		will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.		released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<b>Marine Mammal Presence</b> <ul style="list-style-type: none"> <li>• RECORDER_ID</li> <li>• SPECIES</li> <li>• FIRST_DATE_LOC</li> <li>• LAST_DATE_LOC</li> <li>• DETECTION_GRAPH</li> <li>• STUDY_YEAR</li> <li>• REPORT</li> </ul>	JASCO Research	File gdb	2009-2010	Chukchi: <u>Acoustic Arrays</u> Barrow Array (2009-10) Point Lay Array (2009-10) Wainwright Array (2010) <u>Acoustic</u>	COP/Shell (2009) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>				<u>Study Areas</u> Statoil (2010)					case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<b>Marine Mammal Presence Supporting Files</b>	JASCO Research	*.png	2009-2010	Chukchi: <u>Acoustic Arrays</u> Barrow Array (2009-10) Point Lay Array (2009-10) Wainwright Array (2010) <u>Acoustic Study Areas</u> Statoil (2010)	COP/Shell (2009) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
									transmittal.

### Chemical Characterization

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Field Amphipod</b> <ul style="list-style-type: none"> <li>• STUDY_YEAR</li> <li>• CRUISE_NUMBER</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• SAMPLE_TYPE</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DEPTH_METERS</li> <li>• DATE_DEPLOYED</li> <li>• TIME_DEPLOYED_LOC</li> <li>• TIME_RETRIEVED_LOC</li> <li>• DATE_RETRIEVED</li> <li>• SAMPLING_MET</li> </ul>	Battelle / Exponent	File gdb	2008	Chukchi: Burger Klondike	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
HOD • REPORT • CONTRACTOR • NOTES									
<b>Field NonAmphipod</b> • STUDY_YEAR • CRUISE_NUMBER • STATION • REPLICATE • SAMPLE_TYPE • LATITUDE • LONGITUDE • DEPTH_METERS • TIME_COLLECTED_LOC • DATE_COLLECTED • SAMPLING_METHOD • HOD • REPORT • CONTRACTOR • NOTES	Battelle/Exponent	File gdb	2008	Chukchi: Burger Klondike	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<b>Lab Inorganic Core</b> • SAMPLE_ID • STUDY_YEAR	Battelle	File gdb	2008	Chukchi: Burger Klondike	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom	No	Initial metadata released to public through AOOS data system until December 1, 2012.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• CRUISE_NUMBER</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• SAMPLE_TYPE</li> <li>• DATE_COLLECTED</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• SECTIONING_INT</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>							( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.		Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<p><b>Lab Inorganic Grain</b></p> <ul style="list-style-type: none"> <li>• SAMPLE_ID</li> <li>• SURF_CORE_FLAG</li> <li>• INTERVAL</li> <li>• GRAVEL_PCT</li> <li>• SAND_PCT</li> <li>• SILT_PCT</li> <li>• CLAY_PCT</li> <li>• TOTAL_PCT</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>	Battelle	File gdb	2008	Chukchi: Burger Klondike	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.



Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<p><b>Lab Inorganic Metal</b></p> <ul style="list-style-type: none"> <li>• SAMPLE_ID</li> <li>• SURF_CORE_FLAG</li> <li>• LAB_ID</li> <li>• LAB_SAMPLE_TYPE</li> <li>• DATE_COLLECTED</li> <li>• DATE_EXTRACTED</li> <li>• DATE_ANALYZED</li> <li>• ANALYTICAL_INSTR</li> <li>• ANALYTICAL_METHOD</li> <li>• SDG</li> <li>• MOISTURE_PCT</li> <li>• LIPID_PCT</li> <li>• MATRIX</li> <li>• SAMPLE_SIZE</li> <li>• SIZE_UNIT_BASIS</li> <li>• UNITS</li> <li>• PARAMETER</li> <li>• PARAM_CODE</li> <li>• VALUE</li> </ul>	Battelle	File gdb	2008	Chukchi: Burger Klondike	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• QUAL</li> <li>• DETECT_LIMIT</li> <li>• DETECT_LIMIT_CODE</li> <li>• TARGET</li> <li>• RECOVERY_PCT</li> <li>• RECOVERY_PCT_QUAL</li> <li>• RPD_PCT</li> <li>• RPD_QUAL</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>									
<p><b>Lab Inorganic Surficial</b></p> <ul style="list-style-type: none"> <li>• SAMPLE_ID</li> <li>• STUDY_YEAR</li> <li>• CRUISE_NUMBER</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• SAMPLE_TYPE</li> <li>• DATE_COLLECTED</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• REPORT</li> <li>• CONTRACTOR</li> </ul>	Battelle	File gdb	2008	Chukchi: Burger Klondike	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• NOTES</li> </ul>									
<p><b>Lab Organic</b></p> <ul style="list-style-type: none"> <li>• SAMPLE_ID</li> <li>• STUDY_YEAR</li> <li>• CRUISE_NUMBER</li> <li>• STATION</li> <li>• REPLICATE</li> <li>• SAMPLE_TYPE</li> <li>• SURF_CORE_FLAG</li> <li>• LAB_ID</li> <li>• LAB_SAMPLE_TYPE</li> <li>• LATITUDE</li> <li>• LONGITUDE</li> <li>• DATE_COLLECTED</li> <li>• DATE_EXTRACTED</li> <li>• DATE_ANALYZED</li> <li>• ANALYTICAL_INSTR</li> <li>• ANALYTICAL_METHOD</li> <li>• SDG</li> <li>• MOISTURE_PCT</li> <li>• LIPID_PCT</li> </ul>	Battelle	File gdb	2008-2009	Chukchi: Burger Klondike	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• MATRIX</li> <li>• SAMPLE_SIZE</li> <li>• SIZE_UNIT_BASIS</li> <li>• UNITS</li> <li>• PARAMETER</li> <li>• PARAM_CODE</li> <li>• VALUE</li> <li>• QUAL</li> <li>• DETECT_LIMIT</li> <li>• DETECT_LIMIT_CODE</li> <li>• TARGET</li> <li>• RECOVERY_PCT</li> <li>• RECOVERY_PCT_QUAL</li> <li>• RPD_PCT</li> <li>• RPD_QUAL</li> <li>• REPORT</li> <li>• CONTRACTOR</li> <li>• NOTES</li> </ul>									

***Marine Mammal Monitoring and Mitigation***

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• VESSELNAME</li> <li>• DECLONG</li> <li>• DECLAT</li> <li>• DATETIMEUTC</li> <li>• DAY</li> <li>• MONTH</li> <li>• YEAR</li> <li>• HOUR</li> <li>• MINUTE</li> <li>• SECOND</li> <li>• WATERDEPTH</li> <li>• WATCH</li> <li>• RECORDEDBY</li> <li>• OBSERVERLOCATION</li> <li>• OBSERVERPORT</li> <li>• OBSERVERCENTER</li> <li>• OBSERVERSTARBOARD</li> <li>• ACTIVITY</li> <li>• SEISMICLINE</li> <li>• NOOFGUNS</li> <li>• ARRAYVOLUME</li> <li>• WINDFORCE</li> <li>• VISIBILITY</li> <li>• LIGHTORDARK</li> <li>• GLAREAMOUNT</li> <li>• GLAREPOSITION</li> </ul>	LGL	File gdb	2006 - 2007	Chukchi	COP/Shell	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
FROM • GLAREPOSITION TO • ICELOCATION • ICEPERCENT • PACKICEDISTANCE • SIGHTINGID • SIGHTINGRECORDNO • SPECIES • INDIVIDUALS • JUVENILES • WHEREAT • WHERETO • RETICLES • SIGHTINGDISTANCE • BEHAVIOR1 • BEHAVIOR2 • WATERORICE • CPA • PACE • MOVEMENT • REACTION • SIGHTINGOBSERVEDBY • SIGHTINGRECORDEDBY									

Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• IDRELIABILITY</li> <li>• HOURPZSZ</li> <li>• MINUTEPZSZ</li> <li>• SECONDPZSZ</li> <li>• COMMENTS</li> <li>• OTHERBOAT</li> <li>• CONTRACTOR</li> <li>• REPORT_NAME</li> <li>• NOTES</li> <li>• REPORT</li> </ul>									

## Marine Mammal Aerial Observations

Information Description	Source (Supplier & Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Observations</b> <ul style="list-style-type: none"> <li>• DECLAT</li> <li>• DECLONG</li> <li>• SIGHTINGNU</li> <li>• SPECIES</li> <li>• BEHAVIOR</li> <li>• SPEED</li> <li>• HEADING</li> <li>• ONOFFTRANS</li> <li>• ANGLE</li> <li>• ALTITUDE</li> <li>• OBSVR</li> <li>• COMMENTS</li> <li>• DATE_</li> <li>• CONTRACTOR</li> <li>• INDIVIDUALS</li> <li>• MOVEMENT</li> <li>• JUVENILES</li> <li>• PLATFORM</li> </ul>	EBASCO (1989-90) LGL (2006-2008, 2010)	File gdb	1989 – 1990, 2006-2008, 2010	Chukchi and Beaufort	Shell (1989-90, 2008, 2010) COP/Shell (2006-07)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<b>Transects</b> <ul style="list-style-type: none"> <li>• TABLEINDEX</li> <li>• DDMMYY</li> <li>• TRANSECT</li> <li>• TP</li> <li>• TIMESTART</li> <li>• TIMEEND</li> </ul>	EBASCO (1989-90) LGL (2006-2008, 2010)	File gdb	1989 – 1990, 2006-2008, 2010	Chukchi and Beaufort	Shell (1989-90, 2008, 2010) COP/Shell (2006-07)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on



Information Description	Source (Supplying Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<ul style="list-style-type: none"> <li>• <i>ALT</i></li> <li>• <i>AIRTEMP</i></li> <li>• <i>WINDS</i></li> <li>• <i>CLOUDCOVER</i></li> <li>• <i>ROBS</i></li> <li>• <i>LOBS</i></li> <li>• <i>DTOBS</i></li> <li>• <i>ICEL</i></li> <li>• <i>SEAL</i></li> <li>• <i>VISL</i></li> <li>• <i>GLAREL</i></li> <li>• <i>ICER</i></li> <li>• <i>SEAR</i></li> <li>• <i>VISR</i></li> <li>• <i>GLARER</i></li> <li>• <i>SEISMIC</i></li> <li>• <i>PATCHNO</i></li> <li>• <i>WITHSOMEMU</i></li> <li>• <i>FLIGHT</i></li> <li>• <i>WEIGHT</i></li> </ul>							Ocean Workspace account or by DVD or CD if the files are large.		case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

## Study Logistics

Information Description	Source (Supplier & Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Sampling Stations</b> <ul style="list-style-type: none"> <li>• STATION</li> <li>• LAT</li> <li>• LON</li> <li>• STUDY_AREA</li> <li>• STUDY_TYPE</li> <li>• STUDY_YEAR</li> </ul>	RDI	File gdb	2008-2010	Chukchi	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<b>Study Area Polygons</b> <ul style="list-style-type: none"> <li>• NAME</li> <li>• SIZE</li> <li>• YEAR</li> <li>• TYPE</li> </ul>	RDI	File gdb	2008-2010	Chukchi	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.

Information Description	Source (Supplier & Contractor)	Format	Time Period	Location	Ownership	Party Submitting Information	AOOS Guidance for Intake of Data	Near Real Time Delivery?	Available for Public Release Upon Transmittal?
<b>Study Area Divisions</b> <ul style="list-style-type: none"> <li>• STUDY_AREA</li> <li>• PRIORITY</li> <li>• STUDY_TYPE</li> <li>• SURVEY_LINE</li> <li>• LOCATION</li> <li>• LINE_TYPE</li> </ul>	RDI	File gdb	2008-2010	Chukchi	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.
<b>Transect Lines</b> <ul style="list-style-type: none"> <li>• STUDY_AREA</li> <li>• PRIORITY</li> <li>• STUDY_TYPE</li> <li>• SURVEY_LINE</li> <li>• LOCATION</li> <li>• LINE_TYPE</li> </ul>	RDI	File gdb	2008-2010	Chukchi	COP/Shell (2008-09) COP/Shell /Statoil (2010)	RDI	SEE MEMORANDUM FOR COMPLETE DETAILS. Data will be transmitted to the AOOS data contractor Rob Bochenek at Axiom ( <a href="mailto:rob@axiom.com">rob@axiom.com</a> ; 907-230-0304) via a dedicated AOOS Ocean Workspace account or by DVD or CD if the files are large.	No	Initial metadata released to public through AOOS data system until December 1, 2012. Data released for scientific use on case by case basis. After December 1, 2012 all metadata and data will be available for public release upon transmittal.