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| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 2 |
| 2. AMENDMENT/MODIFICATION NO. P00004 | 3. EFFECTIVE DATE See Block 16C | 4. REQUISITION/PURCHASE REQ NO. 0040504455 | 5. PROJECT NO. (If applicable) |
| 6. ISSUED BY BOEM-HQ 45600 Woodland Road, VAE-AMD Sterling VA 20166-9216 | CODE M10 | 7. ADMINISTERED BY (If other than Item 6) | CODE |
| 8. NAME AND ADDRESS OF CONTRACTOR (No. street, county State and ZIP Code) SOUTHERN CALIFORNIA COASTAL WATER RESEARCH Attn: Steve Weisberg 3535 HARBOR BLVD STE 110 COSTA MESA CA 92626-1437 | | (x) 9A. AMENDMENT OF SOLICITATION NO. | 9B. DATED (SEE ITEM 11) |
| CODE 0070189290 | FACILITY CODE | X 10A. MODIFICATION OF CONTRACT/ORDER NO. 140M0118P0043 | 10B. DATED (SEE ITEM 13) 09/26/2018 |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended is not extended
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods (a) By completing Items 8 and 15, and returning _____ copies of the amendment, (b) By acknowledging receipt of this amendment on each copy of the offer submitted, or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
 01 Net Increase: \$100,000.00

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

| | |
|-----------|--|
| CHECK ONE | A THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. |
| | B THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). |
| X | C THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF Mutual Agreement of the Parties |
| | D OTHER (Specify type of modification and authority) |

E. IMPORTANT: Contractor is not is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
 The purpose of this bilateral modification is to add additional work and funding for Option Period 2 in the firm-fixed-price amount of \$100,000.00 for the period of 1 October 2020 through 30 September 2021 in accordance with the attached.

The total obligation of the purchase order is hereby increased from \$300,000.00 by \$100,000.00 to \$400,000.00. The total value of the purchase order if all options are exercised is increased from \$400,000.00 by \$100,000.00 to \$500,000.00.

Reference the attached replacement pages 5 and 7-8 with the left sidebar next to the changes.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

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|---|---|
| 15A. NAME AND TITLE OF SIGNER (Type or print) | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Rebecca Kruse |
| 15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign) | 15C. DATE SIGNED |
| 16B. UNITED STATES OF AMERICA (Signature of Contracting Officer) | 16C. DATE SIGNED |

NAME OF OFFEROR OR CONTRACTOR
SOUTHERN CALIFORNIA COASTAL WATER RESEARCH PROJECT AUTHORITY

| ITEM NO (A) | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
|----------------|--|-----------------|-------------|-------------------|---------------|
| | <p>There are no other changes as a result of this modification.</p> <p>Delivery Location Code: 0010252409 BOEM Pacific OCS Reg Sup Strat Res 760 Paseo Camarillo, CM 102 Camarillo CA 93010 US</p> <p>Account Assignm: K G/L Account: 6100.252U0 Business Area: M000 Commitment Item: 252U00 Cost Center: MMNN200000 Functional Area: MT1EV0000.AAP000 Fund: 201M19172D Fund Center: MMNN200000 PR Acct Assign: 01 Period of Performance: 10/01/2018 to 09/30/2021</p> <p>Add Item 00032 as follows:</p> | | | | |
| 00032 | <p>Additional funding for Option Period 2.</p> <p>Period of Performance: 10/01/2020 to 09/30/2021</p> | | | | 100,000.00 |

2.2.1 Tasks

1. Provide and maintain a server with custom software stack to support the West Coast Ocean Data Portal, portal.westcoastoceans.org
2. Install software and operating system updates for the above systems as necessary.
3. Backup for the above systems and associated data.
4. Provide identical production and development servers for the above systems to facilitate development and testing of new features prior to deployment.
5. Work closely with partners and stakeholders to ensure the WCODP provides the most relevant and up to date biological, physical, and socioeconomic data for Pacific Ocean Planning needs.
6. Maintain up to date hardware and software, and ensure data is delivered in current GIS compatible format (geodatabases, rasters, etc.).
7. Support the creation and registration of new datasets to the portal from new and existing network members.
8. Providing subject matter experts for the purposes of synthesizing and developing specialized ocean data.
9. Provide support in maintaining the content in the WCODP as well as updating the software behind the web page.
10. Provide administrative support to the WCODP development team through meeting planning a facilitation.

The below items 11-14 are applicable to Option Period 2 only:

- 11. Work with academics and other subject matter experts to ensure the WCODP has the most authoritative data for ocean acidification, water quality, and kelp. Develop robust analyses to inform the West Coast Ocean Health Report Card.**
- 12. Update the backend software for the WCODP.**
- 13. Develop a standalone Oregon Offshore Wind Mapping tool using a subset of WCODP data, for the development of Offshore Wind in Oregon.**
- 14. Compile a disjunct collection of infauna datasets from California, Oregon and Washington into a single dataset with a single data schema.**

2.3 Deliverables

- 1) Web Hosting for WCODP for 12 months.
- 2) Maintain software and servers for WCODP for 12 months.

- 3) GIS geodatabase of Historical Sea Floor Grab Samples for the Morro Bay and Humboldt Draft Call Areas, or other agreed upon dataset.
- 4) A concise report documenting data collection methods, analysis and geodatabase development.
- 5) Publish a GIS service of the dataset so it can be consumed by the WCODP.
- 6) 6 bimonthly conference calls for WCODP Data Development Team.
- 7) 6 bimonthly conference calls for WCODP Portal Coordination Team.
- 8) Annual network meeting of WCODP team members.
- 9) Coordination with West Coast Regional Planning Body to ensure WCODP is providing the data needed for Ocean Planning.

2.3-1 Payment Schedule

Invoices shall be submitted quarterly in accordance with the schedule below for the full period of performance including option periods except for Option Period 2:

| Task | Due Date | Distribution | Amount |
|----------------------------------|--------------|--------------|-------------|
| Deliverables 1-9 Update (Report) | December 31 | Notify COR | \$25,000.00 |
| Deliverables 1-9 Update (Report) | March 31 | Notify COR | \$25,000.00 |
| Deliverables 1-9 Update (Report) | June 30 | Notify COR | \$25,000.00 |
| Deliverables 1-9 Update (Report) | September 30 | Notify COR | \$25,000.00 |

Invoices shall be submitted quarterly in accordance with the schedule below for Option Period 2:

| Task | Due Date | Distribution | Amount |
|---|---------------------|-------------------|---------------------|
| Deliverables 1-9 Update (Report) | December 31 | Notify COR | \$ 50,000.00 |
| Deliverables 1-9 Update (Report) | March 31 | Notify COR | \$50,000.00 |
| Deliverables 1-9 Update (Report) | June 30 | Notify COR | \$50,000.00 |
| Deliverables 1-9 Update (Report) | September 30 | Notify COR | \$50,000.00 |

Support, Maintenance and Operations for West Coast Data Portal, 140M0118P0036