AMENDMENT TO
FINANCIAL ASSISTANCE AWARD

CFDA NO. AND NAME
11.012 Integrated Ocean Observing System (IOOS)

PROJECT TITLE
The Central and Northern California Ocean Observing System: Information solutions to power healthy a

RECIPIENT NAME
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

AMENDMENT NUMBER
1

STREET ADDRESS
7700 SANDHOLDT RD

EFFECTIVE DATE
07/01/2022

CITY, STATE, ZIP CODE
MOSS LANDING CA 95039-9644

CITY, STATE, ZIP CODE
MOSS LANDING CA 95039-9644

COSTS ARE REVISED AS FOLLOWS:

<table>
<thead>
<tr>
<th>COSTS ARE REVISED AS FOLLOWS:</th>
<th>PREVIOUS ESTIMATED COST</th>
<th>ADD</th>
<th>DEDUCT</th>
<th>TOTAL ESTIMATED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEDERAL SHARE OF COST</td>
<td>$3,964,645.00</td>
<td></td>
<td>$0.00</td>
<td>$7,758,026.00</td>
</tr>
<tr>
<td>RECIPIENT SHARE OF COST</td>
<td>$0.00</td>
<td></td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>TOTAL ESTIMATED COST</td>
<td>$3,964,645.00</td>
<td>$3,793,381.00</td>
<td></td>
<td>$7,758,026.00</td>
</tr>
</tbody>
</table>

REASON(S) FOR AMENDMENT.

1. To provide continued funding for the project entitled, "The Central and Northern California Ocean Observing System: Information solutions to power healthy and prosperous oceanic, coastal and estuarine communities" per the recipient's application dated 12/23/2020 and revised on 5/3/2021, 7/16/2021, 8/11/2021 and 8/23/2021, which are incorporated by reference.

2. To revise NOAA Administrative and Programmatic Specific Award Conditions.

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):

This Amendment Document (Form CD-451) signed by the Grants Officer constitutes an Amendment of the above-referenced Award, which may include an obligation of Federal funding. By signing this Form CD-451, the Recipient agrees to comply with the Amendment provisions checked below and attached, as well as previous provisions incorporated into the Award. If not signed and returned without modification by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Amendment offer and de-obligate any associated funds.

SPECIFIC AWARD CONDITION(S)

LINE ITEM BUDGET

OTHER(S):