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Attachments:

DEPARTMENT OF COMMERCE
RESEARCH PERFORMANCE PROGRESS REPORT (RPPR)

[RPPR Guidance](#)
[Award Action Request Guidance](#)

AWARD INFORMATION	
1. Federal Agency: Department of Commerce / NOAA	2. Federal Award Number: NA200AR4320271
3. Project Title Cooperative Institute for Climate, Ocean, and Ecosystem Studies (CICOES)	
4. Award Period of Performance Start Date: July 01, 2020	5. Award Period of Performance End Date: June 30, 2025
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR	
6. Last Name and Suffix: Malarek	7. First and Middle Name: Deborah
8. Title: Grants Manager	
9. Email: dmalarek@uw.edu	10. Phone Number 206-221-4187
AUTHORIZING OFFICIAL	
11. Last Name and Suffix: Lienard	12. First and Middle Name: Daniel
13. Title: Compliance Analyst	
14. Email: lienard@uw.edu	15. Phone Number 206-543-4043
REPORTING INFORMATION	
Signature of Submitting Official: Daniel Lienard	
16. Submission Date and Time Stamp: 2021-04-23 00:00:00.0	17. Reporting Period End Date: March 31, 2021
18. Reporting Frequency: <input checked="" type="radio"/> Annual <input type="radio"/> Semi-Annual <input type="radio"/> Quarterly	19. Report Type: <input checked="" type="radio"/> Not Final <input type="radio"/> Final
RECIPIENT ORGANIZATION	
20. Recipient Name:	

UNIVERSITY OF WASHINGTON

21. Recipient Address:

4333 BROOKLYN AVE NE, SEATTLE, WA 98195-0001 USA

22. Recipient DUNS:

605799469

23. Recipient EIN:

916001537

ACCOMPLISHMENTS [Guidance](#)

24. What were the major goals and objectives of this project?*

Efforts in this Cooperative Institute project are grouped in nine research themes: Climate and Ocean Variability, Change and Impacts; Earth Systems and Processes; Environmental Chemistry and Ocean Carbon; Marine Ecosystems: Observation, Analysis, and Forecasts; Ocean and Coastal Observations; Environmental Data Science; Aquaculture Science; Human Dimensions in Marine Systems; and Polar Studies. Major research goals conducted under these themes include: collecting and analyzing data to better

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25. What was accomplished under these goals?*

see attached Appendix 1

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26. What opportunities for training and professional development has the project provided?*

Many usual avenues for training and professional development were not available due to COVID-related limitations, but faculty and staff managed to find many novel ways to continue this. Highlights follow:

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27. How were the results disseminated to communities of interest?*

We presented results via peer-reviewed journal publications and presentations at scientific conferences and workshops, as well as at universities, invited open public lectures, community outreach events, working groups, and laboratory tours. We served on advisory

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28. What do you plan to do during the next reporting period to accomplish the goals and objectives?*

See attached Appendix 2

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PRODUCTS [Guidance](#)

29. Publications, conference papers, and presentations*

Nothing to Report

See attached Appendix 3

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30. Technologies or techniques*

Nothing to Report

Below are highlights from various projects:

Illumina NextSeq next generation sequencing, Google Cloud bioinformatics

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31. Inventions, patent applications, and/or licenses*

Nothing to Report

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32. Other products*

Nothing to Report

The G3 Lab has developed a bioinformatic pipeline "MetaPipe" led by S. McAllister, working with M. Galaska, C. Paight, and E. Norton. The pipeline automates common downstream analyses and figures used in eDNA and metabarcoding analyses, producing figures ready for publication and dramatically decreasing hands on analysis time.

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PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS [Guidance](#)

33. What individuals have worked on this project?*

John Horne, PI
Uma Bhatt, Co-PI (lead UAF)
Roberta Marinelli, Co-PI (lead OSU)
Muyin Wang, Deputy Director

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34. Has there been a change in the active other support of the PD/PI(s) or senior/key personnel since the last reporting period?*

Nothing to Report

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35. What other organizations have been involved as partners?*

Nothing to Report

CICOES is a consortium with the University of Alaska Fairbanks (UAF) and Oregon State University (OSU)

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36. Have other collaborators or contacts been involved?*

Nothing to Report

Mike Alexander, Simone Alin, Aleksandr Araykin, Diego Arcase, Kerim Aydin, Dan Ayers, M.O. Baringer, Sonia Batten, Tamara Baumberger, S. Becker, Catherine Berchok, Bryan Black, Nicholas Bond, Peter Boveng, Charlotte Boyd, William Brazelton, J.L. Bullister, Randie Bundy, Eugene Burger, Michael Cameron, Antonietta Capotondi, C.A. Carlson, William Chadwick, Carolina Chambers, Guiwan Chen, Wei Cheng, Dezhang Chu, Kathryn Chumbley, Sarah Converse, Lee Cooper, Kelly Corbett, Jessica

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IMPACT [Guidance](#)

37. What was the impact on the development of the principal discipline(s) of the project?*

Nothing to Report

See attached Appendix 4

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38. What was the impact on other disciplines?*

Nothing to Report

Impacts from studies conducted by JISAO/CICOES scientists are not constrained within single research themes. Research project impacts on other disciplines include:
The Alaska Climate Integrated Modeling project (ACLIM) is a successful example of regionally-specific integrated modeling, which is

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39. What was the impact on the development of human resources?*

Nothing to Report

In addition to the previously discussed DEI workshops, we continue efforts to encourage the hiring of underrepresented groups all across the hiring process. While the number of female PhD students and postdoc researchers in the sciences has increased in recent years, retention of female scientists beyond their postdoc remains a challenge. JISAO/CICOES has a dedicated HR Manager who

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40. What was the impact on teaching and educational experiences?*

Nothing to Report

What follows are some highlights of impacts on teaching and educational experiences:

- AFSC Interns – The (remote) students that participated in this project carried out research on specific topic(s). This type of experience is both

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41. What was the impact on physical, institutional, and information resources that form infrastructure?*

Nothing to Report

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42. What was the impact on technology transfer?*

Nothing to Report

See attached Appendix 5

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43. What was the impact on society beyond science and technology?*

Nothing to Report

Overall impacts of research during the reporting period have increased our knowledge, understanding, and forecasting ability of atmosphere-ocean interactions, climate and climate-related modeling, and the understanding and better management of ecosystems and harvestable resources. Collectively, these results can be used to increase coastal community resilience, national and

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44. What percentage of the award's budget was spent in foreign country(ies)?*

Enter percent %

Enter explanation :

Hard to determine exact amount; this is an estimate.

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CHANGES/PROBLEMS [Guidance](#)

45. Changes in approach and reasons for change*

Nothing to Report

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46. Actual or anticipated problems or delays and actions or plans to resolve them*

Nothing to Report

COVID continued to delay and complicate field work. We continue to work with NOAA sponsors on individual issues as they arise.

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47. Changes that had a significant impact on expenditures*

Nothing to Report

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48. Significant changes in use or care of human subjects, vertebrate animals, biohazards, and/or select agents*

Nothing to Report

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49. Change of primary performance site location from that originally proposed*

Nothing to Report

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PROJECT OUTCOMES

[Guidance](#)

50. What were the outcomes of the award?*

See attached Appendix 6

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