

MPA (2023) FINAL REPORT

Status: Submitted (10/18/2024 06:08:26 PM)

Project: R/MPA-49C

Project Title: 2023 Continued Assessment Of Rocky Intertidal Habitats For The California Marine Protected Area Monitoring Program

PUBLICATIONS

Response 1

1	Publication Title A Decade of Death and Other Dynamics: Deepening Perspectives on the Diversity and Distribution of Sea Stars and Wasting	Publication Number	Publication Type Peer-reviewed: Journals (incl. articles), Books, Proceedings, and Other Documents
Publication Year 2023			
Publisher Info The Biological Bulletin. 000-000. https://doi.org/10.1086/727969			
Peer Reviewed Yes			
Notes			
Related URLs			
Keywords			
Open Access No		Publication URLs	
Citation Dawson, Michael & Duffin, Paige & Giakoumis, Melina & Schiebelhut, Lauren & Beas, Rodrigo & Bosley, Keith & Castilho, Rita & Ewers-Saucedo, Christine & Gavenus, Katie & Keller, Aimee & Konar, Brenda & Largier, John & Lorda, Julio & Miner, C. & Moritsch, Monica & Navarrete, Sergio & Traiger, Sarah & Turner, Mo & Wares, John. (2023). A Decade of Death and Other Dynamics: Deepening Perspectives on the Diversity and Distribution of Sea Stars and Wasting. The Biological Bulletin. 000-000. https://doi.org/10.1086/727969			
Abstract			
For Featured Publication		SG can post PDF online?	

Full Citation: please include name or journal/proceedings, date, volume, issue, page number, if known

Primary Author

Other Author

Uploaded File

Response 2

1

Publication Title

Publication Number

Publication Type

Predator-induced defences under
tropicalisation: A biogeographic approach

Peer-reviewed: Journals (incl. articles),
Books, Proceedings, and Other
Documents

Publication Year

2023

Publisher Info

Peer Reviewed

Yes

Notes

Related URLs

Keywords

Open Access

No

Publication URLs

Citation

Fenberg, Phillip & Beas?Luna, Rodrigo & Igi?, Boris & MacLean, Moira & Paz-García, David & Raimondi, Peter & Sones, Jacqueline & Zarzyczny, Karolina & Sanford, Eric. (2023). Predator-induced defences under tropicalisation: A biogeographic approach. Journal of Biogeography. <https://doi.org/10.1111/jbi.14716>

Abstract

For Featured Publication

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Full Citation: please include name or journal/proceedings, date, volume, issue, page number, if known

Primary Author

Other Author

Uploaded File

Response 3

1

Publication Title

A marine protected area network does not confer community structure resilience to a marine heatwave across coastal ecosystems.

Publication Number

Publication Type

Peer-reviewed: Journals (incl. articles), Books, Proceedings, and Other Documents

Publication Year

2023

Publisher Info

Peer Reviewed

Yes

Notes

Related URLs

Keywords

Open Access

No

Publication URLs

Citation

Smith, J. G., Free, C. M., Lopazanski, C., Brun, J., Anderson, C. R., Carr, M. H., Claudet, J., Dugan, J. E., Eurich, J. G., Francis, T. B., Hamilton, S. L., Mouillot, D., Raimondi, P. T., Starr, R. M., Ziegler, S. L., Nickols, K. J., & Caselle, J. E. (2023). A marine protected area network does not confer community structure resilience to a marine heatwave across coastal ecosystems. *Global Change Biology*, 29, 5634–5651. <https://doi.org/10.1111/gcb.16862>

Abstract

For Featured Publication

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Full Citation: please include name or journal/proceedings, date, volume, issue, page number, if known

Primary Author

Other Author

Uploaded File

PROJECT UPDATES, HIGHLIGHTS AND ACCOMPLISHMENTS (2024 REPORTING)

Project Updates: milestones or major results, changes, or challenges faced over the reporting period (required for each project)

- 1 Provide a high level description of your project's goals and objectives. Describe the progress that has been made toward reaching these goals and objectives. If applicable, this information may be taken and/or modified from your project proposal form.
78 sites were sampled during the reporting period that inform the ongoing efficacy of MPA's in California
- 2 What is the geographic area(s) of where the work is being done/communities affected by the work? Provide a zip code where possible.
78 sites from the Oregon Border to San Diego including the Channel islands were surveyed
Cost sharing was provided by BOEM, the NPS and DOD
Sampling continues to provide insight into the benefits of MPA's in California
- 3 Have there been any change(s) in your approach? If so, describe the change(s) and provide reason(s) for the change(s).
No
- 4 Any actual or anticipated problems or delays? If so, briefly state the problem or delay and describe any actions or plans to resolve them.
No
- 5 Any changes that had a significant impact on expenditures?
No
- 6 Have there been significant changes in use or care of human subjects, vertebrate animals, biohazards, and/or select agents?
NA
- 7 Change of primary performance site location from that originally proposed? If yes, please describe including the organization name, DUNS (Data Universal Numbering System)/Unique Entity Identifier (UEI)/Employer Identification Number (EIN), and Congressional District Address.
NA
- 8 Has there been a change in the active other support of the PD/PI or senior/key personnel since the last reporting period?
NO

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Highlights (optional)

- 9 Provide a recap of the highlight in a few sentences. Keep the language clear, in layman's terms, without abbreviations or acronyms, and written in the third person.
-
- 10 In-depth description of the highlight
-
- 11 What is the full name (no acronyms), type, and scale of the partner(s) associated with this specific highlight. See "Help Text" for definitions/guidance.
-

Accomplishments (optional)

- 12 Provide a recap of the accomplishment in a few sentences. Keep the language clear, in layman's terms, without abbreviations or acronyms, and written in the third person.
-
- 13 In-depth description of the accomplishment.
-
- 14 What is the full name (no acronyms), type, and scale of the partner(s) associated with this specific accomplishment. See "Help Text" for definitions/guidance.
-

PARTNERS THIS PERIOD (2024 REPORTING)

California State Parks			
1	Partner Name	Scale	Type
	California State Parks		
	Notes		
2	Is this partnership new to your project? No - this is a continuing partnership from previous reporting periods.		
3	How long has this partner been associated with this project? Consider time from initial outreach to current situation.		
4	Approximately how many hours did you work together on this project during this reporting period? Include time spent building relationships, project development, implementation, outreach, administrative work.		
5	Was knowledge co-production or participatory science involved in the planning or implementation of your project? Answer yes or no. If yes, explain how it was involved. If no, do you plan to incorporate either into future partnerships?		

National Marine Sanctuaries

1	Partner Name	Scale	Type
	National Marine Sanctuaries		
	Notes		
2	Is this partnership new to your project? No - this is a continuing partnership from previous reporting periods.		
3	How long has this partner been associated with this project? Consider time from initial outreach to current situation.		
4	Approximately how many hours did you work together on this project during this reporting period? Include time spent building relationships, project development, implementation, outreach, administrative work.		
5	Was knowledge co-production or participatory science involved in the planning or implementation of your project? Answer yes or no. If yes, explain how it was involved. If no, do you plan to incorporate either into future partnerships?		

National Park Service

1	Partner Name	Scale	Type
	National Park Service		
	Notes		
2	Is this partnership new to your project? No - this is a continuing partnership from previous reporting periods.		
3	How long has this partner been associated with this project? Consider time from initial outreach to current situation.		
4	Approximately how many hours did you work together on this project during this reporting period? Include time spent building relationships, project development, implementation, outreach, administrative work.		
5	Was knowledge co-production or participatory science involved in the planning or implementation of your project? Answer yes or no. If yes, explain how it was involved. If no, do you plan to incorporate either into future partnerships?		

Bureau of Ocean Energy Management

1	Partner Name	Scale	Type
	Bureau of Ocean Energy Management		
	Notes		

- 2 Is this partnership new to your project?
No - this is a continuing partnership from previous reporting periods.
-
- 3 How long has this partner been associated with this project? Consider time from initial outreach to current situation.
-
- 4 Approximately how many hours did you work together on this project during this reporting period? Include time spent building relationships, project development, implementation, outreach, administrative work.
-
- 5 Was knowledge co-production or participatory science involved in the planning or implementation of your project? Answer yes or no. If yes, explain how it was involved. If no, do you plan to incorporate either into future partnerships?
-

US Airforce

- | 1 | Partner Name | Scale | Type |
|---|--------------|-------|------|
| | US Airforce | | |
| | Notes | | |
-
- 2 Is this partnership new to your project?
No - this is a continuing partnership from previous reporting periods.
-
- 3 How long has this partner been associated with this project? Consider time from initial outreach to current situation.
-
- 4 Approximately how many hours did you work together on this project during this reporting period? Include time spent building relationships, project development, implementation, outreach, administrative work.
-
- 5 Was knowledge co-production or participatory science involved in the planning or implementation of your project? Answer yes or no. If yes, explain how it was involved. If no, do you plan to incorporate either into future partnerships?
-

US Navy

- | 1 | Partner Name | Scale | Type |
|---|--------------|-------|------|
| | US Navy | | |
| | Notes | | |
-
- 2 Is this partnership new to your project?
No - this is a continuing partnership from previous reporting periods.
-
- 3 How long has this partner been associated with this project? Consider time from initial outreach to current situation.
-

- 4 Approximately how many hours did you work together on this project during this reporting period? Include time spent building relationships, project development, implementation, outreach, administrative work.
-
- 5 Was knowledge co-production or participatory science involved in the planning or implementation of your project? Answer yes or no. If yes, explain how it was involved. If no, do you plan to incorporate either into future partnerships?
-

STAFFING LEVEL OF EFFORT (2024 REPORTING)

Karah Ammann

- 1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Karah Ammann
-
- 2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
7.8
-
- 3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12
-
- 4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.
-

Laura Anderson

- 1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Laura Anderson
-
- 2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
4.5
-
- 3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12
-
- 4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.
-

Christy Bell

- 1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Christy Bell
-
- 2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
3
-
- 3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12
-

4

Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Mia Cortez

1

Full name of Faculty/Staff/Technician (written as First Name Last Name).

Mia Cortez

2

How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?

5.3

3

How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?

12

4

Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Melissa Douglas

1

Full name of Faculty/Staff/Technician (written as First Name Last Name).

Melissa Douglas

2

How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?

4.9

3

How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?

12

4

Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Nate Fletcher

1

Full name of Faculty/Staff/Technician (written as First Name Last Name).

Nate Fletcher

2

How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?

2.4

3

How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?

12

4

Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Rani Gaddam

1

Full name of Faculty/Staff/Technician (written as First Name Last Name).

Rani Gaddam

2

How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?

4

3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12

4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Maya George

1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Maya George

2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
5.3

3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12

4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Dave Lohse

1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Dave Lohse

2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
2

3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12

4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Carrie Melissa Miner

1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Carrie Melissa Miner

2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
2.2

3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12

4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

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Lexi Necarsulmar

- 1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Lexi Necarsulmar
- 2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
3.3
- 3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12
- 4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

Pete Raimondi

- 1 Full name of Faculty/Staff/Technician (written as First Name Last Name).
Pete Raimondi
- 2 How many calendar months effort on this project was funded by Sea Grant dollars during this reporting period?
1
- 3 How many calendar months effort on this project was funded by match/cost share dollars during this reporting period?
12
- 4 Provide any necessary notes, explanations, or justifications for inclusion of this individual, their effort, or anything else.

LEVERAGED FUNDING (2024 REPORTING)

- 1 Source of leveraged funds (name of organization/institution/donor, etc.).
BOEM, NPS, UCSC
- 2 Leveraged funding start date
07-19-2023
- 3 Leveraged funding end date
09-30-2024
- 4 Are leveraged funds managed or influenced? See "Help Text" for definitions and guidance.
☒ Managed
- 5 Amount of leveraged funding acquired (numbers only).
400000
- 6 Comments and/or explanation of leveraged funds (e.g., how were funds calculated).
- 7 Are there any other projects associated with these leveraged funds? If so, please list the projects. If not, write "N/A".

8

Primary Sea Grant Focus Area the leveraged funds apply to

☒ Healthy Coastal Ecosystems

FOCUS AREAS, GOALS, AND CLASSIFICATION (2024 REPORTING)

1

Please indicate which National Focus Area your project primarily falls under. Note that a project may fall within a single Focus Area or transgress several focus areas; please report the primary.

Healthy Coastal Ecosystems

2

Select one or more goal(s) below that fall under the PRIMARY FOCUS AREA selected above relevant to your project. See instructions at the top of the page for the list of goals per Focus Area.

☒ Goal 1 ☒ Goal 2

3

Approximately, what percentage of your project falls within the Focus Area, Healthy Coastal Ecosystems?

4

Approximately, what percentage of your project falls within the Focus Area, Resilient Coastal Communities and Economies?

5

Approximately, what percentage of your project falls within the Focus Area, Sustainable Fisheries and Aquaculture?

6

Approximately, what percentage of your project falls within the Focus Area, Environmental Literacy and Workforce Development?

7

Which of California Sea Grant's DEIJA Strategic Goal does your project address?

8

Explain how your project addressed one or more of California Sea Grant's DEIJA Strategic Goals (see above more info). If your project did not address any of the DEIJA Strategic Goals, write "N/A".

9

Classification - Tier 1: Major topical areas of investment for your project. Read "Help Text" for information about Sea Grant Classifications.

10

Classification - Tier 2: Specific sub-topical areas of your project. Multiple-select (up to three). Read "Help Text" for information about Sea Grant Classifications.

11

Classification – Tier 3: Cross-cutting “disciplines” that are not intended to be exhaustive. Unlimited number of codes can be selected per Project. Please do not re-select Environmental Science and Literacy or Integrated Workforce Development if it was coded as such in Tier 1. Read "Help Text" for information about Classifications.

HEALTHY COASTAL ECOSYSTEM METRICS (2024 REPORTING)

No user response.

RESILIENT COMMUNITIES AND ECONOMIES METRICS (2024 REPORTING)

No user response.

SUSTAINABLE FISHERIES & AQUACULTURE METRICS (2024 REPORTING)

No user response.

ECONOMIC & SOCIETAL IMPACTS AND BENEFITS (2024 REPORTING)

Overview of Economic & Societal Impact(s) and Benefit(s)

- 1 Describe the economic or societal impact or benefit. See "Help Text" for definitions/guidance.
We are able to provide clear information about of MPA's to the public. This is done by presentation. It is also provided through our interactive web site. In addition our web site provides data usable in schools for demonstration project, for species guides and for visualizations. Finally we provide massive amounts of data curated through our data manager allowing researchers, the public and managers to avoid collecting their own data - saving effort and funds.
- 2 What was your project's role in developing or implementing this economic or societal impact or benefit? See "Help Text" for definitions/guidance.
- 3 Estimated dollar value of the economic or societal benefit. If a dollar value cannot be assigned, please describe why not. See "Help Text" for definitions/guidance.
- 4 Who is the beneficiary of this societal or economic impact or benefit?
- 5 What is the full name (no acronyms), type, and scale of the partner(s) associated with this benefit. If there are none, please write "None". See "Help Text" for definitions/guidance.
- 6 What Focus Area does the Economic and/or Societal Benefit most closely align with.
☒ Healthy Coastal Ecosystems

Job(s) or Business(es) Newly Created or Retained/Sustained/Supported

- 7 Was the job or business newly created or was an existing job or business retained/sustained/supported?
- 8 Name or title of job or business that was newly created or retained/sustained/supported as a result of Sea Grant activities.
- 9 Number of the job(s) or business(es) that were newly created or retained/sustained/supported as a result of Sea Grant activities.
12

- 10 Briefly explain the justification behind these numbers. Visit the Bureau of Labor Statistic's website to determine median wages by sector in a given state <https://www.bls.gov/oes/current/oesrcst.htm>.

Patents

- 11 What is the number of the patent?

- 12 What is the name of the patent?

- 13 Has the patent been issued/published by the United States Patent and Trademark Office (USPTO)?

ENVIRONMENTAL ACTIONS & VISITOR ATTENDANCE (2024 REPORTING)

No user response.

EVENTS AND PUBLIC/PROFESSIONAL PRESENTATIONS (2024 REPORTING)

No user response.

FORMAL AND NONFORMAL EDUCATION (2024 REPORTING)

No user response.

GOVERNMENT RELATIONS (2024 REPORTING)

- 1 California State Assembly: Please select the CA congressional district number(s) your project benefits. You can find your district(s) here: <http://findyourrep.legislature.ca.gov>. If your project benefited all COASTAL districts, you may mark the "All Coastal Districts" box. If your project benefited all California districts, you may mark the "All California Districts".
☒ All COASTAL California Districts.
- 2 California State Senate: Please select the CA congressional district number(s) your project benefits. You can find your State Senators and districts here: <http://findyourrep.legislature.ca.gov>. If your project benefited all COASTAL districts, you may mark the "All Coastal Districts" box. If your project benefited all California districts, you may mark the "All California Districts".
☒ All COASTAL California districts.
- 3 U.S. House of Representative: Please select the U.S. congressional district number(s) your project serves. You can find your districts here: <https://www.house.gov/representatives>. If your project benefited all COASTAL districts, you may mark the "All Coastal Districts" box. If your project benefited all California districts, you may mark the "All California Districts".
☒ All COASTAL California Districts.
- 4 Optional: provide justification and/or links for your district selections. If your work takes place in or affects communities/geographic locations outside of the above questions, explain below.

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PRESS AND MEDIA COVERAGE (2024 REPORTING)

1	Title or headline of the media coverage. Unique project off Ventura, Santa Barbara County coastlines trying to save endangered abalone
2	Source of coverage/name of entity providing the coverage. KCLU
3	How was the covered delivered? <input checked="" type="checkbox"/> Online news article
4	Date of coverage. 11-02-2023
5	Full citation of the coverage. Unique project off Ventura, Santa Barbara County coastlines trying to save endangered abalone Orozco, Lance. KCLU, 02 November 2023.
6	Relevant URL/link to the coverage (if applicable). https://www.kclu.org/local-news/2023-11-02/unique-project-off-ventura-santa-barbara-county-coastlines-trying-to-save-endangered-abalone

PRODUCTS, TOOLS, TECHNOLOGIES, AND INFORMATION SERVICES (2024 REPORTING)

Response 1	
1	Check the below boxes to indicate if the product/tool an example of advancing environmental literacy and workforce development (ELWD) or ecosystem-based management (EBM).
2	Describe the product/tool and how it improves understanding about managing ecosystems and/or improves environmental literacy. GIS mapping tool for results of the project (marine.ucsc.edu)
3	Describe who the end user of the product/tool currently is, or will be if the product/tool is still being developed.
4	Was the product/tool developed and/or used by an "end user" during the reporting period? If both developed and used, check both boxes. <input checked="" type="checkbox"/> Used
5	If the product/tool hasn't yet been used by an "end user", when do you expect it happen? Estimate the date (MM/YYYY)

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Response 2

- 1 Check the below boxes to indicate if the product/tool an example of advancing environmental literacy and workforce development (ELWD) or ecosystem-based management (EBM).

- 2 Describe the product/tool and how it improves understanding about managing ecosystems and/or improves environmental literacy.
MARINe workshop put on by the our intertidal team to convey results and to provide training to practitioners

- 3 Describe who the end user of the product/tool currently is, or will be if the product/tool is still being developed.

- 4 Was the product/tool developed and/or used by an "end user" during the reporting period? If both developed and used, check both boxes.

- 5 If the product/tool hasn't yet been used by an "end user", when do you expect it happen? Estimate the date (MM/YYYY)

STUDENTS INVOLVED (2024 REPORTING)

No user response.

VOLUNTEER SUPPORT (2024 REPORTING)

- 1 Name of the California Sea Grant-sponsored volunteer activity.

- 2 If you are reporting an individual volunteer, provide their name. If multiple volunteers from one entity (such as a company, NGO, etc.) volunteered, provide the name of the entity here.
Undergraduate and graduate students, retirees;

- 3 Number of volunteers. If you are reporting on multiple volunteers for one activity, enter the total number of individuals. If you are reporting one individual's activities, write "1".
29

- 4 Number of hours volunteered. If reporting on multiple individuals, enter the total number of hours for all individuals. See "Help Text" for definitions/guidance.
60 days x 8 hours/day = 480 hours

- 5 Provide a brief description of their type of engagement (e.g., collected water samples or removed trash or debris, etc.). What is economic or societal benefits resulted from the volunteer activities? See "Help Text" for definitions/guidance.

- 6 How much did the volunteer program cost to administer? Provide dollar value where possible. Indicate what was funded with Sea Grant dollars and what was funded with non-Sea Grant dollars. See "Help Text" for definitions/guidance.

7

What was the Primary Focus Area of the volunteer work?

☉ Healthy Coastal Ecosystems
