

## MARINE MAMMAL COMMISSION

14 December 2021

Ms. Jolie Harrison, Chief Permits and Conservation Division Office of Protected Resources National Marine Fisheries Service 1315 East-West Highway Silver Spring, MD 20910-3225

Re:

Permit Amendment Application No. 22187 (Heather Liwanag, Ph.D., California Polytechnic State University)

Dear Ms. Harrison:

The Marine Mammal Commission (the Commission), in consultation with its Committee of Scientific Advisors on Marine Mammals, has reviewed the above-referenced permit amendment application with regard to the goals, policies, and requirements of the Marine Mammal Protection Act (the MMPA). Dr. Liwanag is authorized to conduct research on northern elephant seals in California during a five-year period—permit 22817 expires on 31 March 2024. The purpose of the research is to establish a long-term elephant seal monitoring program to investigate life history parameters and demography, physiological parameters, behavior, and acoustic parameters. Dr. Liwanag is authorized to harass, observe, capture, handle, restrain, measure/weigh, mark<sup>1</sup>, sample<sup>2</sup>, photograph/videotape, passively record, and/or conduct other procedures<sup>3</sup> on numerous elephant seals of any age and either sex per year. She is also authorized to kill unintentionally up to two elephant seals per year, not to exceed five during the five-year period.

Dr. Liwanag requested to add takes of juvenile elephant seals to investigate and compare movement patterns of seals between a newly established and a longer term rookery. Researchers would harass, observe, photograph/videotape, capture, handle, restrain, sedate, measure/weigh, mark<sup>4</sup>, sample<sup>5</sup>, instrument<sup>6</sup>, and conduct ultrasound on 10 juvenile individuals of either sex per year. Animals could be recaptured once in a year for the retrieval of instruments. Non-target elephant seals and harbor seals could be harassed incidental to the proposed activities. Researchers would use various measures to minimize impacts on pinnipeds and also would be required to abide by the National Marine Fisheries Service's (NMFS) standard permit conditions. Dr. Liwanag has submitted

<sup>&</sup>lt;sup>1</sup> With flipper tags and/or bleach or hair dye.

<sup>&</sup>lt;sup>2</sup> Including hair, swabs, and ectoparasites from live animals and various samples from dead animals. All samples could be exported for analysis.

<sup>&</sup>lt;sup>3</sup> Including ultrasound, infrared thermography, and acoustic playback activities.

<sup>&</sup>lt;sup>4</sup> With flipper tags.

<sup>&</sup>lt;sup>5</sup> Including blood, hair, and swabs.

<sup>&</sup>lt;sup>6</sup> Including with a VHF transmitter, a satellite-linked transmitter, and a Roto-tag.

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the revised research protocols to California Polytechnic State University's Institutional Animal Care and Use Committee for review.

On 18 November 2021, NMFS published Dr. Liwanag's application in the *Federal Register* (86 Fed. 64457) for public comment. Based on its informal review of the application available online, the Commission found that some of the information required in NMFS's 2016 application instructions and its implementing regulations was not clear in the application and provided to NMFS a list of minor comments on the application. The Commission subsequently received responses to these comments which adequately addressed the issues, but it did not receive a final application that was revised according to these responses. NMFS has informed the Commission that the revisions mentioned in the responses will be incorporated into a final application once a permit decision is made<sup>7</sup>. As such, the Commission believes that the proposed activities are consistent with the purposes and policies of the MMPA and recommends that NMFS issue the permit, contingent on ensuring that the final application and permit include the relevant revisions based on responses to the Commission's informal comments.

Kindly contact me if you have any questions concerning the Commission's recommendation.

Sincerely,

Peter o Thomas

Peter O. Thomas, Ph.D. Executive Director

<sup>&</sup>lt;sup>7</sup> The Commission is aware, however, that despite assurances that they would be, some final permits and applications were *not* revised based on responses to the Commission's informal comments on recent applications, including permits 25770 for Dr. Daniel Costa and 25786 for Southwest Fisheries Science Center.