

Scope of Work for Cosco Busan Cassin's Auklet Nest Box Restoration February 2017

To continue efforts to create new durable, "climate smart" nesting habitat for Cassin's Auklets on the Farallon National Wildlife Refuge, Point Blue Conservation Science proposes the following work, and requests funding from the Trustee Council, for phase 1 of the implementation phase of this project.

This phase involves the construction, implementation and evaluation of 30 ceramic auklet nest modules on the Refuge. This phase build on the design and testing phase and improvements made to the "mailbox" module design outlined in previous progress reports. This design has shown good promise and favorable temperature results in 2015/16 trials. This phase will allow for wide scale validation of smaller scale nest temperature, auklet use and success results in this new artificial habitat design, providing strong proof of concept which can be leveraged to fund and implement the full project. Challenges of this project have included underestimated budgeting of the design and evaluation portion of this project to meet the specific needs of long term durable nesting habitat that adapts to climate changes impacts. No project implantation partners were involved in developing these budgets. However, we are confident that due diligence has been taken for proper project development to meet our goals. This stage of implementation will help us leverage future wide scale implementation. Point Blue Conservation Science can commit to providing at least a 1:1 match for future funding of implementation of this project. The current proposed work is also supplemented by over \$10,000 of in kind support provided by Point Blue and our partners at Oikonos and the California College of the Arts. As monitoring efforts of new habitat will part of Point Blue's long term Farallon operations we believe that reallocation of some of the monitoring funds for project implementation might be appropriate. We are excited that this phase of project implementation will answer any remaining unanswered questions about habitat design and use by auklets and lay excellent groundwork for completion of the project.

Deliverables and timelines

Completion of constructions nest modules - April 1 2017 at latest

Completion of installation of nest boxes on Southeast Farallon Islands – April 15 2017

Summary of 2017 field season results and final recommendations for large scale implementation – October 31, 2017

Budget

Oikonos / California College of the Arts production of 30 ceramic nest modules (se detailed budget below)	\$ 12,000.00
Boat charter for box transport	\$ 2,000.00
Point Blue Salary/benefits (2 weeks Warzybok, 1 week Bradley)	\$ 6,000.00
Packing costs	\$ 500.00
Indirect Costs (35%)	\$ 7,175.00
Grand total	\$ 27,675.00

Project No.	Date
15-1001 PointBlue01	1/27/2016



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Project – Sustainable Nest Modules for Threatened Seabirds	
Budget Description	Amount
Preparation: Hiring assistants, ordering materials, coordinating, jig and die production (Lynch)	900
Clay	1600
Supplies: extruder, wood, lift	970
Hand Building	
Lynch	4050
Assistant	4200
Drying	
Assistant	280
Total Cost per module	400
Total 30 modules (15 glazed, 15 unglazed)	12000
TOTAL	\$ 12000.00