

ATTACHMENT 3**Scope of work and budget for Cosco Busan Auklet box restoration on Southeast Farallon Island**

To provide the background for the development of new, permanent seabird nesting habitat on the Farallon National Wildlife Refuge, Point Blue Conservation Science will lead in the design phase of development of auklet nesting boxes.

To develop temperature constraints for new nest box designs, Point Blue will write a report summarizing five years of data from temperature loggers in existing Cassin's Auklet nesting boxes. The report will compare mean and maximum temperatures between unshaded boxes, shaded boxes, and natural auklet sites, compared to local control sensors. Recommendations of temperature goals for newly designed sites will be made.

In addition, Point Blue will begin researching prototype designs for testing in the field with Cassin's Auklets. We will contact other researchers working in this field to inform the design of prototypes. We will research material and select choices most appropriate for the Farallon system, which meet research, habitat, and temperature regulation goals. After initial development of 2-3 different prototype boxes, we will construct and deploy ~10-20 nest boxes of each prototype design in fall 2014 for more wide scale testing – assessing temperatures and use and breeding success by auklets in summer 2015.

Deliverables and Timelines

Temperature logger Report and initial prototype background research– March 30, 2014

Development of prototypes – July 30, 2014

Installation of new prototypes for testing – October 30, 2014

Budget

Design Phase = Temperature Logger Report and Prototype planning, consultation with partners, research, and design

Trial Implementation = Prototypes development (materials, staff time for construction, and installation of test units) – from implementation budget



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Design Phase				
Name		Time needed (months)	Monthly Salary	TOTAL (w/benefits)
BRADLEY, Russ	Farallon Program Manager	0.5	\$ 5,814	\$ 4,148
JAHNCKE, Jaime	California Current Director	0.05	\$ 7,776	\$ 555
WARZYBOK, Pete	Farallon Biologist	0.75	\$ 4,410	\$ 4,720
	Design Phase Subtotal			\$ 9,423
	Design Phase Indirect costs			\$ 3,157
	DESIGN PHASE TOTAL			\$ 12,580
Trial Implementation				
BRADLEY, Russ	Farallon Program Manager	0.1	\$ 5,814	\$ 830
WARZYBOK, Pete	Farallon Biologist	0.5	\$ 4,410	\$ 3,147
	Equipment costs			\$ 2,500
	Trial Implementation Subtotal			\$ 6,476
	Trial Implementation Indirect costs			\$ 2,170
	TRIAL IMPLEMENTATION TOTAL			\$ 8,646
	GRAND TOTAL			\$ 21,225