November 29, 2002 F/SWC2:RWB:FLF
PI0302I-1.SGP

MEMORANDUM FOR: PMC - RADM Nicholas A. Prahl

FROM: F/SWC2 - Samuel G. Pooley(/s/SamuelG.Pooley)

SUBJECT: Preliminary Cruise Instructions for the NOAA ship *Oscar E. Sette*

Attached are the preliminary cruise instructions for *Oscar E. Sette* cruise OS-03-02, Leg I (OS-003).

Attachment

cc: Commanding Officer, *Oscar E. Sette*
Richard Neal, F/SWC

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PI0302I-1.RWB

Commanding Officer

NOAA Ship *Oscar E. Sette*

PRELIMINARY CRUISE INSTRUCTIONS: OS-03-02, Leg I (OS-03) (Fig. 1)

1.0 SCHEDULE

The NOAA ship *Oscar E. Sette* will be engaged as support for a Protected Species Investigations (PSI), Honolulu Laboratory (HL), Southwest Fisheries Science Center (SWFSC), National Marine Fisheries Service (NMFS), NOAA, project and the U.S. Fish and Wildlife Service (USFWS) from 1 March to 16 March for a total of 16 sea days in the Northwestern Hawaiian Islands (Fig. 1). Cruise schedule is based on speeds of 10 knots.

1.1 The ship will transport personnel, equipment, and supplies to field camps at Laysan Island, Lisianski Island, and Midway Atoll. Two (2) day censuses will be conducted at Pearl and Hermes Reef. The cruise will also resupply camps at Tern Island, French Frigate Shoals (FFS), and Midway Atoll for the U.S. Fish and Wildlife Service.

1.2 Itinerary (Planned)

1 March Embark C. Yoshinaga, C. Cornish, and 13 to-be-named (TBN). Depart Snug Harbor, Honolulu at 1000 en route to FFS (2 days, 1 hour).

3 March	Arrive FFS at 1100. Off-load equipment and supplies including 1 55-gal drum unleaded fuel. Depart FFS 1600 en route to Laysan (1 day, 9 hours).
6 March	Arrive Laysan Island 0800. Off-load equipment and supplies. Disembark three (3) NMFS TBN and five (5) USFWS TBN. Depart Laysan 1600 en route to Lisianski (12 hours).
7 March	Arrive Lisianski Island 0800. Off-load equipment and supplies. Disembark three (3) NMFS TBN. Establish field camp. Depart Lisianski 1600 en route to Pearl and Hermes Reef (15 hours).
8 March	Arrive Pearl and Hermes Reef 0700. Conduct day census of Seal Kittery, Grass, North, Little North, and Southeast island.
9 March	Continue day census of atoll. Depart Pearl and Hermes Reef 1900 en route to Midway (9 hours).
10 March	Arrive Midway Atoll 0800. off-load equipment and supplies. Disembark two (2) NMFS TBN. Depart Midway Atoll 1900 en route to Laysan Island (1 day, 12 hours).
12 March	Arrive Laysan Island 0800. Load all trash and recyclables. Embark five (5) USFWS TBN. Depart Laysan Island 1600 en route to FFS (1 day, 9 hours).
14 March	Arrive FFS 0800. Load two (2) Boston Whalers, 11 pallet tubs trash and recyclables, and 10 empty

propane tanks. Depart FFS 1200 en route to Honolulu (2 days, 1 hour).

16 March Arrive Honolulu 1300. Off-load all supplies, equipment, trash and recyclables. Disembark all scientists. End of Leg 1 of cruise.

2.0 SCIENTIFIC OBJECTIVES

2.1 Objectives of the cruise are:

a. Establish field camps at Laysan Island, Lisianski Island, and Midway Atoll. Transport all equipment, supplies, and personnel.

a. Conduct day censuses of Pearl and Hermes Reef.

b. Resupply existing USFWS field camps at Laysan Island and Midway Atoll. Transport equipment, supplies, and personnel.

3.0 SCIENTIFIC PERSONNEL

3.1 Chief Scientist, Chad Yoshinaga

3.2 Scientific Staff

Name	*Title*	*Sex/Nat.*	*Organization*
Carolyn Cornish	Cooperating Scientist	F/Canada	JIMAR
Chad Yoshinaga	Chief Scientist	M/USA	NMFS
8 TBN	Cooperating Scientist	U/USA	Aquatic Farms
7 TBN	Cooperating Scientist	U/USA	USFWS

3.3 Before sailing, all scientific personnel will complete a NOAA Health Services Questionnaire (NHSQ), which will be given to the Commanding Officer at the beginning of the cruise. Clearances are valid for 2 years for scientists under age 50 and 1 year for age 50 and over. A statement of conduct memorandum

delineating the NOAA policy on sexual harassment and use of illegal drugs and alcohol will also be distributed to all scientific personnel, and an acknowledgment of the receipt of this memorandum will be required.

4.0 OPERATIONAL PLANS

The following operational plans can be considered only a guide as to how the Chief Scientist expects the surveys to progress without being able to predict the weather, operational and scheduling problems, and equipment failures.

4.1 The Chief Scientist has the authority to revise or alter the technical portion of the instructions as work progresses, provided that, after consultation with the Commanding Officer, it is ascertained that the proposed changes will not: (1) jeopardize the safety of personnel or the ship, (2) exceed he overall time allotted for the project, (3) result in undue additional expenses, and (4) alter the general intent of the cruise instructions. In addition, the Chief Scientist must obtain approval from the Office of the Director of the Honolulu Laboratory prior to recommending: (1) deviations from the general cruise track or area of operations noted in the cruise instructions, (2) changes or additions of research operations to those specified in the cruise instructions, or (3) port calls not specifically identified in the cruise instructions.

4.2 A pre-cruise meeting between the Chief Scientist, the Commanding Officer and their respective staffs will be held prior

to commencement of operations to identify operational and logistic requirements.

5.0 EQUIPMENT

All mission equipment must be operational at the time of departure.

5.1 The ship will provide the following:

120 cu ft freezer and 120 cu ft of refrigerator space for food and quarantine equipment
2 skiffs for transporting supplies, equipment, and personnel

5.2 NMFS HL will provide:

~1000 5-gal buckets
3 propane refrigerators
~ 25 pelican cases (various sizes)
10 large pallet tubs (4 ft x 4 ft)
20 5-gal buckets refrigerated food
4 80 qt. coolers frozen food
3 36 liter nitrogen dewars
10 12v deep cycle batteries
4 Honda generators

The USFWS will provide the following gear:

10 large pallet tubs
~100 5-gal buckets
2 80 qt. coolers frozen food
10 boxes frozen food
4 boxes refrigerated food
1 80 qt. coolers refrigerated food

5.3 NMFS, HL will provide the following hazardous materials:

~24 propane cylinders (various sizes)
15 gal formaldehyde
30 gal unleaded gas
6 gal ethyl alcohol
120 liters liquid nitrogen
3 gal betadine
30 gal clorox bleach
1 55-gal drum unleaded fuel

5.4 The Chief Scientist shall be responsible for complying with NC Instruction 6280B, Hazardous Materials and Hazardous Waste Policy, Guidance, and Training, dated May 8, 1991. By federal law, the ship may not sail without a complete inventory of MSDS and appropriate neutralizing agents, buffers and/or absorbants in amounts adequate to address spills of a size equal to the amount of chemicals brought aboard.

The Chief Scientist shall be responsible for insuring that all hazardous materials brought aboard the vessel by scientific personnel will be removed at the end of the cruise.

6.0 RECORDS AND REPORTS

6.1 *Marine Observations Log*: A Marine Observations Log will be maintained during the cruise. Other forms required by the Chief Scientist for each of the operations will be integrated into the Marine Operations Log.

6.2 *Station Plot*: The position of each operation and station will be plotted on charts generated by Seaplot navigation software. Ship's personnel will supply the Chief Scientist with copies of these charts at the end of the cruise.

6.3 *Data Disposition*: The Chief Scientist will be considered to be the representative of the NMFS Honolulu Laboratory Director for purpose of data disposition. A single copy of all data gathered by the vessel will be delivered to the Chief Scientist upon request for forwarding to the Laboratory Director, who in turn will be responsible for distribution of data to other investigators desiring copies.

6.4 *Post-cruise Debriefing*: A post-cruise debriefing will be held between the Chief Scientist and the Commanding Officer. If serious problems are identified, the Commanding Officer shall notify the marine center by the most direct means available. The Chief Scientist shall document identified problems in the Ship Operations Evaluation Form.

7.0 ADDITIONAL INVESTIGATIONS AND PROJECTS:

7.1 *Additional Investigations*: Any other work done during the cruise period will be subordinate to the main project and performed so as not to interfere with that outlined in these instructions. The Chief Scientist will be responsible for determining the priority of additional work relative to the main project.

7.2 *Ancillary and Piggyback Project*:

7.2.1 *Definition*: Ancillary and piggyback projects are secondary to the objectives of the cruise and should be treated as additional investigations. The difference between the two types of secondary projects is that an ancillary project does not have representation aboard and is accomplished by the ship's force.

7.2.2 *Ancillary Projects*: Ancillary tasks will be accomplished in accordance with the NOAA Fleet Standing Ancillary Instructions.

7.3 *Piggyback Projects*:

7.3.1 The SWFSC HL bird, aquatic marine mammal, and fish school sightings log, per Chief Scientist instructions.

8.0 MISCELLANEOUS:

8.1 Navigational Control: Primary control during the project will be GPS, visual, radar, etc.

9.0 COMMUNICATIONS:

9.1 Chief Scientist activity reports will be sent to the Director, Honolulu Laboratory. As required, the command will assist the Chief Scientist by establishing radio contact with the NMFS HL.

Since it is sometimes necessary for the scientific staff to communicate with other research vessels, commercial vessels, and shore-based NOAA facilities, the Chief Scientist or his designee may request the use of the radio transceivers aboard the vessel.

The *Oscar E. Sette* is equipped with INMARSAT, a telephone/teletype satellite communication system. If the scientific staff uses this system, they will be obligated to pay for their calls, which are estimated at $6.02 per minute for voice and $4 per minute for telex. Rapifax will be available at voice rate.

The *Oscar E. Sette* is equipped with cellular telephone capability. If the scientific staff uses this system, they will be obligated to pay for incoming and outgoing calls, which are estimated at $0.90 per minute for airtime, plus any applicable long distance charges charged to the ship's number.

The *Oscar E. Sette* is equipped with e-mail capabilities using the INMARSAT or cellular telephone systems. If the scientific staff uses this system, they will be obligated to pay for incoming and outgoing calls, which are estimated at $1.00 per kilobyte.

(/s/SamuelG.Pooley)

RADM Nicholas A. Prahl, NOAA Director, Marine Operations Center	Samuel G. Pooley Acting Director Honolulu Laboratory

Attachment

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