



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Northeast Fisheries Science Center  
166 Water Street  
Woods Hole, MA 02543-1097

April 1, 2004

MASTER  
NOAA Charter Vessel - F/V Mary K

CRUISE INSTRUCTIONS: Collaborative Goosefish Survey

Cruise Period: On or about 1 March, 2004 - 22 May, 2004.

Area of Operation: Mid-Atlantic continental shelf and slope from around Cape Hatteras through Georges Bank and the Gulf of Maine in U.S. waters. Stations may be occupied between and 55-460 meters (30-250 fathoms; Figure 1).

Objectives: To collect research survey data on the monkfish resource (distribution, abundance, biological characteristics) in U.S. waters north of Cape Hatteras.

Itinerary (planned):

27-29 February: Load scientific gear and supplies aboard charter vessel.

1 March: Embark scientific personnel aboard charter vessel and depart home port.

1 March-6 March: Conduct Leg 1 of study as described in the Operational Plans.

March 8-19: Conduct Leg 2 of study as described in the Operational Plans.

March 22-27: Conduct Leg 3a of study as described in the Operational Plans.

March 29-April 2: Conduct Leg 3b of study as described in the Operational Plans.

April 5 - April 10: Conduct Leg 4 of study as described in the Operational Plans.

April 12-23: Conduct Leg 5 of study as described in the Operational Plans.

April 26-May 7: Conduct Leg 6 of study as described in the Operational Plans.

May 10-22: Conduct Leg 7 of study as described in the



## Operational Plans.

22 May: Arrive at home port, offload scientific collections and disembark scientific personnel.

### Operational Plans:

Approximately 280 designated survey stations (Figure 1) will be occupied for 30 minute tows at 2.5 knots. Fishing will occur day and night using the vessel's nets with codend replaced by a standard 6-inch diamond mesh codend. Standard NEFSC bottom trawl survey techniques will be used to process the catch. Data collected will include total weight, number and length composition for each species, in addition to stomach contents, gender, and maturity stage for monkfish. Lengths will be measured to the nearest cm and weights to the nearest 0.1 kg. Goosefish vertebrae will be collected and frozen for age processing, goosefish stomach contents recorded.

Data Management: Trawl catches will be processed on shipboard as specified in the Operational Plans. Data will be collected using the SCS package and using FSCS software; final processing will be done at the NEFSC in Woods Hole, MA. Samples and data collected for specific individuals, organizations or agencies will be processed by same. ROSCOP 3 forms (IOC SC-90/WS-23) will be completed and forward to NODC, Washington, DC. A cruise report will be submitted by the Chief Scientist to the NEFSC Vessel Coordinator for distribution within 60 days following the completion of the cruise.

Communications: Daily communications will be via email and satellite phone (when available). Betty Holmes will be the primary point of contact for communications.

Hazardous Material: A list of any chemical material being brought aboard ship along with Material Safety Data Sheet will be given to the Master upon embarking. The scientific program is responsible for providing both required handling equipment/apparel and any approved neutralizing agents needed for the safe use, storage and handling of all chemicals brought aboard.

### Miscellaneous:

Watches: Vessel operations will be conducted continuously 24 hours per day. The scientific watch schedule will be eight hours "on", eight hours "off" or as agreed on by the scientific crew.

Meals: A scientific complement of up to 5 persons will be given meals beginning with the day of sailing extending throughout the cruise, and ending with termination of the cruise.

Personnel List (Scientific): <sup>1/</sup>

| <u>Name</u>                            | <u>Title</u>    | <u>Organization</u>         |
|--|-----------------|-----------------------------|
| <u>Leg 1, March 1-6</u>                |                 |                             |
| Anne Richards                          | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| Paul Nitschke                          | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Sandy Sutherland                       | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Chris Pickett                          | Scientist       | NMFS, NEFSC, Woods Hole, MA |
| Jonathan Duquette                      | Scientist       | NMFS, NEFSC, Woods Hole, MA |
| <u>Leg 2, March 8-19, 2004</u>         |                 |                             |
| Rob Johnston                           | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| Chris Pickett                          | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Larry Jacobson                         | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Betty Holmes                           | Scientist       | NMFS, NEFSC, Woods Hole, MA |
| TBA                                    | Scientist       |                             |
| <u>Leg 3a, March 22-March 27, 2004</u> |                 |                             |
| Paul Rago                              | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| Nathan Keith                           | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Azure Westwood                         | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Diane Miller                           | Scientist       | NOAA, Touscon, AZ           |
| TBA                                    | Scientist       |                             |
| <u>Leg 3b, March 29-April 2, 2004</u>  |                 |                             |
| Anne Richards                          | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| Nathan Keith                           | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Diane Miller                           | Watch Chief     | NOAA, Touscon, AZ           |
| Don Frei                               | Scientist       | NMFS, NERO, Gloucester, MA  |
| Joseph Cofone                          | Scientist       | NMFS, NERO, Gloucester, MA  |
| <u>Leg 4, April 5-10, 2004</u>         |                 |                             |
| Henry Milliken                         | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| Erin Kupcha                            | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Diane Miller                           | Watch Chief     | NOAA, Touscon, AZ           |
| Matt Cieri                             | Scientist       | Maine DMR, Boothbay Hbr, ME |
| TBA                                    | Scientist       |                             |
| <u>Leg 5, April 12-23, 2004</u>        |                 |                             |
| TBA                                    | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| Chris Pickett                          | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Jonathan Duquette                      | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Josh Moser                             | Scientist       | NMFS, NEFSC, Woods Hole, MA |
| TBA                                    | Scientist       |                             |

Leg 6, April 26-May 7, 2004

|                  |                 |                             |
|------------------|-----------------|-----------------------------|
| Chris Pickett    | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| Azure Westwood   | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| Erin Kupcha      | Watch Chief     | NMFS, NERO, Gloucester, MA  |
| Allison Ferreira | Scientist       | NMFS, NEFSC, Woods Hole, MA |
| TBA              | Scientist       |                             |

Leg 7, May 10-22, 2004

|               |                 |                             |
|---------------|-----------------|-----------------------------|
| Chris Pickett | Chief Scientist | NMFS, NEFSC, Woods Hole, MA |
| TBA           | Watch Chief     | NMFS, NEFSC, Woods Hole, MA |
| TBA           | Watch Chief     | NMFS, NERO, Gloucester, MA  |
| TBA           | Scientist       | NMFS, NEFSC, Woods Hole, MA |
| TBA           | Scientist       |                             |

<sup>1/</sup> The remainder of the list of scientific personnel will be provided in an Addendum.

Clearances for NOAA Charter Vessel Cruise (F/V Mary K),  
Cooperative Goosefish Survey.

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John Boreman  
Science and Research Director  
Northeast Region

Equipment and Supply List: The following sampling and scientific equipment will be placed aboard the Charter Vessel prior to departure:

| ITEM                               | QUANTITY | FURNISHED BY                |   |   |   |   |
|------------------------------------|----------|-----------------------------|---|---|---|---|
| Age and growth supplies ample      |          | NMFS, NEFSC, Woods Hole, MA |   |   |   |   |
| Feeding ecology supplies (various) | ample    | "                           | " | " | " | " |
| Special sampling supplies          | ample    | "                           | " | " | " | " |
| Wire fish baskets, 2 bushel        | 10       | "                           | " | " | " | " |
| 1 bushel                           | 10       | "                           | " | " | " | " |
| Plastic 5 gal buckets              | 12       | "                           | " | " | " | " |
| Marel electronic scales            | 2        | "                           | " | " | " | " |
| Beam balance, 100 kg capacity      | 2        | "                           | " | " | " | " |
| Dial scales, 20 kg capacity        | 2        | "                           | " | " | " | " |
| 200 kg capacity                    | 1        | "                           | " | " | " | " |
| Fish measuring boards              | 4        | "                           | " | " | " | " |
| Scantrol fish measuring boards     | 4        | "                           | " | " | " | " |
| Polyethylene specimen bags         | 1,000    | "                           | " | " | " | " |
| Gloves, rubberized fish            | 20 pairs | "                           | " | " | " | " |
| cotton                             | 12 pairs | "                           | " | " | " | " |
| Specimen jars                      | ample    | "                           | " | " | " | " |
| Clerical supplies (various)        | ample    | "                           | " | " | " | " |
| Reference books (various)          | ample    | "                           | " | " | " | " |
| Computers                          | 2        | "                           | " | " | " | " |
| Bottom contact sensors             | 2        | "                           | " | " | " | " |
| Temperature sensors                | 2        | "                           | " | " | " | " |
| Net Mind Mensuration System        | 1        | "                           | " | " | " | " |
| Depth sounder                      | 1        | Charter Vessel              |   |   |   |   |
| Survey trawl logs (backup)         | ample    | "                           |   |   |   |   |

Figure 1. Area of study and possible station locations for Cooperative Goosefish Survey, 1 March-22 May, 2004.

