

FINAL CRUISE INSTRUCTIONS

ECO-FOCI

NOAA Ship *Oscar Dyson*, Cruise DY-08-08
May 21 – May 30, 2008
Chief Scientist – Annette Dougherty, NOAA/AFSC

1.0 DRAFT CRUISE INSTRUCTIONS

1.1 **Cruise Title** – Ecosystem and Fisheries-Oceanography Coordinated Investigations (Eco-FOCI).

1.2 **Cruise Numbers:**

1.2.1 **Cruise Number** – DY-08-08

1.2.2 **Eco-FOCI Number** – 4DY08

1.3 **Cruise Dates:**

1.3.1 **Departure** - Depart Wednesday, May 21, 2008, at 1500 hours from Dutch Harbor, Alaska.

1.3.2 **Arrival** – Arrive Friday, May 30, 2008 at 0800 hours in Dutch Harbor, Alaska.

1.4 **Operating Area** – Shumagin Islands to Shelikof Strait, Gulf of Alaska.

2.0 CRUISE OVERVIEW

2.1 **Cruise Objectives** - The objectives of this cruise are to conduct an ichthyoplankton survey and process oriented studies in the region between the Shumagin Islands to Shelikof Strait so that we may estimate the abundance, transport, and factors influencing the survival of young walleye pollock larvae. We will also occupy stations on Line 8 to continue our 23-year time series of environmental and biological conditions in Shelikof Strait.

2.2 **Applicability** - These instructions, with **FOCI Standard Operating Instructions for NOAA Ship Oscar Dyson**, dated November 11, 2005, (http://www.pmel.noaa.gov/foci/operations/OD_SOI.pdf), present complete information for this cruise present complete information for this cruise.

2.3 **Participating Organizations**

NOAA - Alaska Fisheries Science Center (AFSC)
7600 Sand Point Way N.E., Seattle, Washington 98115-0070

2.4 Personnel

2.4.1 Chief Scientist

Name	Gender	Affiliation	E-mail Address	Citizenship
Annette Dougherty (206)526-6523	Female	AFSC	Annette.Dougherty@noaa.gov	USA

2.4.2 Other Participating Scientists

Name	Gender	Affiliation	E-mail Address	Citizenship
Steven Porter	Male	AFSC	Steve.Porter@noaa.gov	USA
Tiffany Vance	Female	AFSC	Tiffany.C.Vance@noaa.gov	USA
Miriam Doyle	Female	AFSC	Miriam.Doyle@noaa.gov	USA

2.5 Administration

2.5.1 Ship Operations

Marine Operations Center, Pacific
1801 Fairview Avenue East
Seattle, Washington 98102-3767
Tel: (206) 553-4548 / Fax: (206) 553-1109

LCDR Douglas Schleiger,
Chief, Operations Division, Pacific (MOP1)
Telephone Number: 206-553-8705
Fax Number: 206-553-1109
E-mail Address: ChiefOps.MOP@noaa.gov

2.5.2 Scientific Operations

Dr. Phyllis J. Stabeno, PMEL
Telephone: (206) 526-6453
E-mail: Phyllis.Stabeno@noaa.gov

Dr. Jeffrey Napp, AFSC
Telephone: (206) 526-4148
E-mail: Jeff.Napp@noaa.gov

3.0 OPERATIONS

3.1 Data To Be Collected

3.1.1 Scientific Computer System (SCS) - The ship's SCS shall operate throughout the cruise, acquiring and logging data from navigation, meteorological, oceanographic, and fisheries sensors. See **FOCI Standard Operating Instructions for NOAA Ship Oscar Dyson** (SOI 5.2) for specific requirements.

3.2 Staging Plan – NOAA *Oscar Dyson* will be loaded with FOCI gear May 10, 2008 while the

ship is in port in Dutch Harbor, Alaska.

- 3.3 De-staging Plan** - AFSC will off-load FOCI gear and samples from **NOAA Ship *Oscar Dyson*** while the ship is Dutch Harbor, Alaska the morning of May 30. The scientific party will need assistance from the vessel in off-loading the gear and samples to be picked up by FTS.
- 3.4 Cruise Plan** - An ichthyoplankton survey will be conducted from the Shumagin Islands to Shelikof Strait. The standard gear for this survey will be a 60-cm bongo with 0.505-mm mesh netting. Tows will be to 100 meters or 10 meters off the bottom where water depth is shallower. See [Section 9.2 DY-08-08 Station Locations](#) and [Section 9.3 DY-08-08 Chartlet](#) for a complete listing of station locations and an overview of the cruise area of operations. Operations will begin at Line 151 (HH151) and proceed upstream to Line 175. Live tows may be conducted with the bongos to examine larval walleye pollock condition if larvae 8-mm or less are found. While we are working up the grid toward Kodiak Island, Alaska, we will occupy Line 8. Line 8 sampling will include 20-cm and 60-cm bongos and conductivity, temperature, and depth (CTD) profiles with Niskin bottle samples taken for chlorophyll, microzooplankton, and nutrients. See [Section 9.2.1 Line 8 Station Locations and Activities](#) for further details. Net tows at Line 8 are to 10 meters off the bottom. The 60-cm bongo will be fitted with 0.505-mm and 0.333-mm mesh nets for Line 8 sampling while the 20-cm bongo mesh will be 0.153-mm. On completion of Line 8, the 60-cm bongo will be refitted with the 0.505-mm mesh netting and cod ends and sampling will resume as before. If time permits, then we will sample Line 147, 143, 139, and 135 on the way to Dutch Harbor.
- 3.5 Station Locations** – See [Section 9.2 DY-08-08 Station Locations](#) and [Section 9.2.1 Line 8 Station Locations and Activities](#) .
- 3.6 Station Operations** - The following are operations to be conducted on this cruise. The procedures for these operations are listed in the ***FOCI Standard Operating Instructions for NOAA Ship Oscar Dyson*** (SOI). Operations not addressed in the SOI and changes to standard procedures are addressed below.
- CTD/Water Sample Operations (SOI 3.2.1)
 - MARMAP Bongo Tows (SOI 3.2.2)
 - Bongo Larval Condition Tows (SOI 3.2.3)
 - Chlorophyll Sampling Operations (SOI 3.2.10)
 - SIMRAD EK-60 and 12 Khz Simrad ES-60 Scientific Echosounder Monitoring (SOI 3.2.12)
- 3.7 Underway Operations** - The following are underway operations to be conducted on this cruise. The procedures for these operations are listed in the ***FOCI Standard Operating Instructions for NOAA Ship Oscar Dyson*** (SOI). Operations not addressed in the SOI and changes to standard procedures are addressed below.
- Acoustic Doppler Current Profiler (ADCP) Operations (SOI 3.2.13),
 - Scientific Computer System (SCS) data acquisition (SOI 3.2.13.3),
- 3.8 Applicable Restrictions** – None
- 3.9 Small Boat Operations** – None

4.0 FACILITIES

4.1 Equipment and Capabilities Provided by Ship

- Oceanographic winch with slip rings and 3-conductor cable terminated for CTD,
- 12 Khz hull mounted Edgetech Acoustic release transducer,
- Manual wire-angle indicator,
- Oceanographic winch with slip rings and 3-conductor cable terminated for the SBE SEACAT, for net tow operations,
- Sea-Bird Electronics' SBE 911*plus* CTD system with stand, each CTD system should include underwater CTD, weights, and pinger. There should be a deck unit for the system,
- Niskin Bottles: as many 10 liter bottles that are available
- Conductivity and temperature sensor package to provide dual sensors on the CTD (primary),
- ADCP
- Sea-Bird Electronics' SBE-19 SEACAT system for plankton tows,
- Meter block for plankton tows,
- Wire speed indicators and readout for oceo winches,
- For meteorological observations: 2 anemometers (one R. M. Young system interfaced to the SCS), calibrated air thermometer (wet-and dry-bulb) and a calibrated barometer and/or barograph,
- Freezer space for storage of biological and chemical samples (both blast and storage freezers, -20° C and -80° C) turned on and operating,
- SIMRAD ES-60 and SIMRAD EK-60 echosounders,
- Use of Pentium PC in Dry and/or Computer Lab for data analysis,
- Scientific Computer System (SCS),
- Video monitors in Dry, Chemistry, and Wet labs for viewing SCS and Electronic MOA output,
- Laboratory space with exhaust hood, sink, lab tables, and storage space,
- Sea-water hoses and spray nozzles to wash nets (quarterdeck),
- Adequate deck lighting for night-time operations,
- Navigational equipment including GPS and radar,
- Safety harnesses for working on starboard sampling station/hero platform, and
- Ship's crane(s) used for loading and/or deploying gear and supplies

4.2 Equipment and Capabilities Provided by Scientists

- Sea-Bird Electronics' SBE 911*plus* CTD system,
- Sea-Bird Electronics' SBE-19 SEACAT system,
- PMEL PC with SEASOFT software for CTD data collection and processing,
- Fluorometer, light meter and dual oxygen sensors to be mounted on CTD,
- CTD stand modified for attachment of fluorometer,
- Conductivity and temperature sensor package to provide dual sensors on the CTD (backup),
- CTD rosette sampler,
- Niskin bottles
- IAPSO standard water,

- 60-cm bongo sampling arrays,
- 20 cm bongo arrays,
- Spare wire angle indicator,
- Miscellaneous scientific sampling and processing equipment,
- Scientific ultra-cold freezer
- Cruise Operations Database (COD)

5.0 DISPOSITION OF DATA AND REPORTS

5.1 The following data products will be included in the cruise data package:

- **NOAA Form 77-13d - Deck Log - Weather Observation Sheets,**
- Electronic Marine Operations Abstracts,
- SCS backup,
- Calibration Sheets for all ship's instruments used,
- PMEL CTD Weather Observation Logs,
- CTD Cast Information/Rosette Log,
- ADCP Log Sheets,
- ADCP CD (CD-RW),
- Ultra-cold Freezer Temperature Daily Log.

5.2 **Pre- and Post-cruise Meetings** - Cruise meetings may be held in accordance with **FOCI Standard Operating Instructions for NOAA Ship Oscar Dyson** (SOI 5.5).

6.0 ADDITIONAL PROJECTS

6.1 **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.

6.2 **Ancillary Projects** - Any ancillary work done during this project will be accomplished with the concurrence of the Chief Scientist and on a not-to-interfere basis with the programs described in these instructions and in accordance with the **NOAA Fleet Standing Ancillary Instructions**.

6.3 **Piggyback Projects** – None.

7.0 **HAZARDOUS MATERIALS** The field party chief shall be responsible for complying with MOCDOC 15, Fleet Environmental Compliance #07, Hazardous Material and Hazardous Waste Management Requirements of Visiting Scientists.

7.1 **Inventory** - [See Section 9.4 DY-08-08 HAZMAT Inventory](#) for a complete listing of HAZMATs brought onboard the vessel. Spill kit contains materials for cleanup of formaldehyde, ethanol, and sodium borate. All scientific staff onboard are trained to handle spills.

7.2 **Material Safety Data Sheet (MSDS)** - A copy of all required MSDS was delivered with the chemicals when ship was loaded.

8.0 MISCELLANEOUS

- 8.1 Communications** - Specific information on how to contact the **NOAA Ship *Oscar Dyson*** and all other fleet vessels can be found at:

<http://www.moc.noaa.gov/phone.htm>

8.2 Important Telephone and Facsimile Numbers and E-mail Addresses

8.2.1 Pacific Marine Environmental Laboratory (PMEL):

FOCI - Ocean Environmental Research Division (OERD2):

- (206) 526-4700 (voice)
- (206) 526-6485 (fax)

Administration:

- (206) 526-6810 (voice)
- (206) 526-6815 (fax)

8.2.2 Alaska Fisheries Science Center (AFSC):

FOCI - Resource Assessment and Conservation Engineering (RACE):

- (206) 526-4171 (voice)
- (206) 526-6723 (fax)

8.2.3 NOAA Ship *Oscar Dyson* - Telephone methods listed in order of increasing expense:

Homeport – Kodiak, Alaska:

- (907)-486-0460
- (907)-486-0326

Cellular (in locations except Dutch Harbor)

- (206) 403-8422 (CO)
- (206) 295-0775 (XO)
- (206) 295-0550 (OPS/OOD)

Cellular (in Dutch Harbor)

- (907)-359-1801 (CO)
- (907)-359-1802 (XO)

Wavetalk

- 1-800-668-4950-toll free

INMARSAT B:

- 011-872-336-995-920
- 011-872-336-995-921

Iridium:

- (808)-659-0050

E-Mail: NOAA.Ship.Oscar.Dyson@noaa.gov (mention the person's name in SUBJECT field.)

8.2.4 Marine Operations Center, Pacific (MOP):

Operations Division (MOP1)

- (206) 553-4548 (voice)
- (206) 553-1109 (facsimile)

E-Mail: FirstName.LastName@noaa.gov

E-Mail to Radio Room: Radio.Room@noaa.gov

9.0 APPENDICES

9.1 DY-08-08 Equipment Inventory

Equipment	Qty	Dimension	Weight	Total Weight
Larval Supply Trunk	1	20"x22"x36"	80.0 lbs	80.0 lbs
Microzooplankton Supply Trunks	2	20"x22"x36"	90.0 lbs	180.0 lbs
Miscellaneous Gear Trunks	4	20"x22"x36"	80.0 lbs	320.0 lbs
60-cm Bongo Frame	1	8"x26"x60"		
20-cm Bongo Frame	1	8"x14"x16"		
Cases Glass Jars (32-oz)	20	8"x12"x15"	2.5 lbs	50.0 lbs
Cases Glass Jars (8-oz)	6	4"x6"x8"	1.3 lbs	7.8 lbs
20-L Container, Formaldehyde 37%	3		40.0 lbs	120.0 lbs
20-L Container, Ethanol 95%	1		40.0 lbs	40.0 lbs
20-L Container, Sodium Borate Solution, Saturated	1		40.0 lbs	40.0 lbs
500-g Container, Sodium Borate	2		1.0 lbs	2.0 lbs
1 L Containers Absolute Alcohol	4		1.5 lbs	1.5 lbs
Spill Kit	1	8"x12"x14"	1.5 lbs	1.5 lbs
TOTAL WEIGHT:				842.8 lbs

9.2 DY-08-08 Station Locations

xy grid	Lat Deg	Lat DecMin		Long Deg	Long DecMin	
hb135	54°	50.3766	N	158°	42.0720	W
gz135	54°	57.2640	N	158°	55.7580	W
gx135	55°	4.1508	N	159°	9.4860	W
gt135	55°	17.9250	N	159°	37.0800	W
gr135	55°	24.8118	N	159°	50.9400	W

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gp135	55°	31.6992	N	160°	4.8480	W
gt139	55°	32.4396	N	159°	12.8100	W
gv139	55°	25.5528	N	158°	59.0640	W
gx139	55°	18.6654	N	158°	45.3600	W
gz139	55°	11.7786	N	158°	31.6980	W
hb139	55°	4.8912	N	158°	18.0840	W
hb143	55°	19.4064	N	157°	53.9460	W
gz143	55°	26.2932	N	158°	7.4940	W
gx143	55°	33.1806	N	158°	21.0780	W
gv143	55°	40.0674	N	158°	34.7160	W
gv147	55°	54.5820	N	158°	10.2120	W
gx147	55°	47.6952	N	157°	56.6520	W
gz147	55°	40.8078	N	157°	43.1340	W
hb147	55°	33.9210	N	157°	29.6640	W
hd147	55°	27.0342	N	157°	16.2300	W
hf147	55°	20.1468	N	157°	2.8380	W
hh151	55°	27.7746	N	156°	25.2660	W
hf151	55°	34.6614	N	156°	38.5440	W
hd151	55°	41.5488	N	156°	51.8640	W
hb151	55°	48.4356	N	157°	5.2260	W
gz151	55°	55.3230	N	157°	18.6300	W
gx151	56°	2.2098	N	157°	32.0760	W
gv151	56°	9.0972	N	157°	45.5640	W
gt151	56°	15.9840	N	157°	59.0940	W
gt153	56°	23.2416	N	157°	46.6740	W
gv153	56°	16.3542	N	157°	33.1800	W
gx153	56°	9.4674	N	157°	19.7280	W
gz153	56°	2.5800	N	157°	6.3180	W
hb153	55°	55.6932	N	156°	52.9560	W
hd153	55°	48.8058	N	156°	39.6300	W
hf153	55°	41.9190	N	156°	26.3400	W
hh153	55°	35.0322	N	156°	13.0980	W
hh155	55°	42.2892	N	156°	0.8940	W
hf155	55°	49.1766	N	156°	14.1000	W
hf157	55°	56.4336	N	156°	1.8240	W
hd155	55°	56.0634	N	156°	27.3540	W
hd157	56°	3.3210	N	156°	15.0360	W
hb157	56°	10.2078	N	156°	28.2900	W
gz157	56°	17.0952	N	156°	41.5800	W
gz155	56°	9.8376	N	156°	53.9700	W
gx155	56°	16.7244	N	157°	7.3440	W

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gx157	56°	23.9820	N	156°	54.9180	W
gv155	56°	23.6118	N	157°	20.7540	W
gt155	56°	30.4986	N	157°	34.2120	W
gu158	56°	40.0000	N	157°	13.0000	W
gv159	56°	38.1264	N	156°	55.7880	W
gx159	56°	31.2396	N	156°	42.4500	W
gz159	56°	24.3522	N	156°	29.1540	W
hb159	56°	17.4654	N	156°	15.9000	W
hd159	56°	10.5780	N	156°	2.6820	W
hf159	56°	3.6912	N	155°	49.5060	W
hd161	56°	17.8356	N	155°	50.2920	W
hb161	56°	24.7224	N	156°	3.4680	W
gz161	56°	31.6098	N	156°	16.6860	W
gx161	56°	38.4966	N	156°	29.9460	W
gv161	56°	45.3840	N	156°	43.2480	W
gv163	56°	52.6410	N	156°	30.6660	W
gx163	56°	45.7542	N	156°	17.4000	W
gz163	56°	38.8674	N	156°	4.1820	W
hb163	56°	31.9800	N	155°	51.0000	W
hd163	56°	25.0932	N	155°	37.8600	W
hd165	56°	32.3502	N	155°	25.3860	W
hb165	56°	39.2376	N	155°	38.4900	W
gz165	56°	46.1244	N	155°	51.6360	W
gx165	56°	53.0118	N	156°	4.8180	W
gv165	56°	59.8986	N	156°	18.0420	W
gv167	57°	7.1562	N	156°	5.3760	W
gx167	57°	0.2688	N	155°	52.1880	W
gz167	56°	53.3820	N	155°	39.0480	W
hb167	56°	46.4946	N	155°	25.9440	W
hd167	56°	39.6078	N	155°	12.8760	W
hd169	56°	46.8654	N	155°	0.3240	W
hb169	56°	53.7522	N	155°	13.3500	W
gz169	57°	0.6390	N	155°	26.4180	W
gx169	57°	7.5264	N	155°	39.5220	W
gv169	57°	14.4132	N	155°	52.6680	W
gt169	57°	21.3000	N	156°	5.0000	W
gt171	57°	27.0000	N	155°	46.0000	W
gv171	57°	21.6708	N	155°	39.9180	W
gx171	57°	14.7840	N	155°	26.8140	W
gz171	57°	7.8966	N	155°	13.7460	W
hb171	57°	1.0098	N	155°	0.7200	W

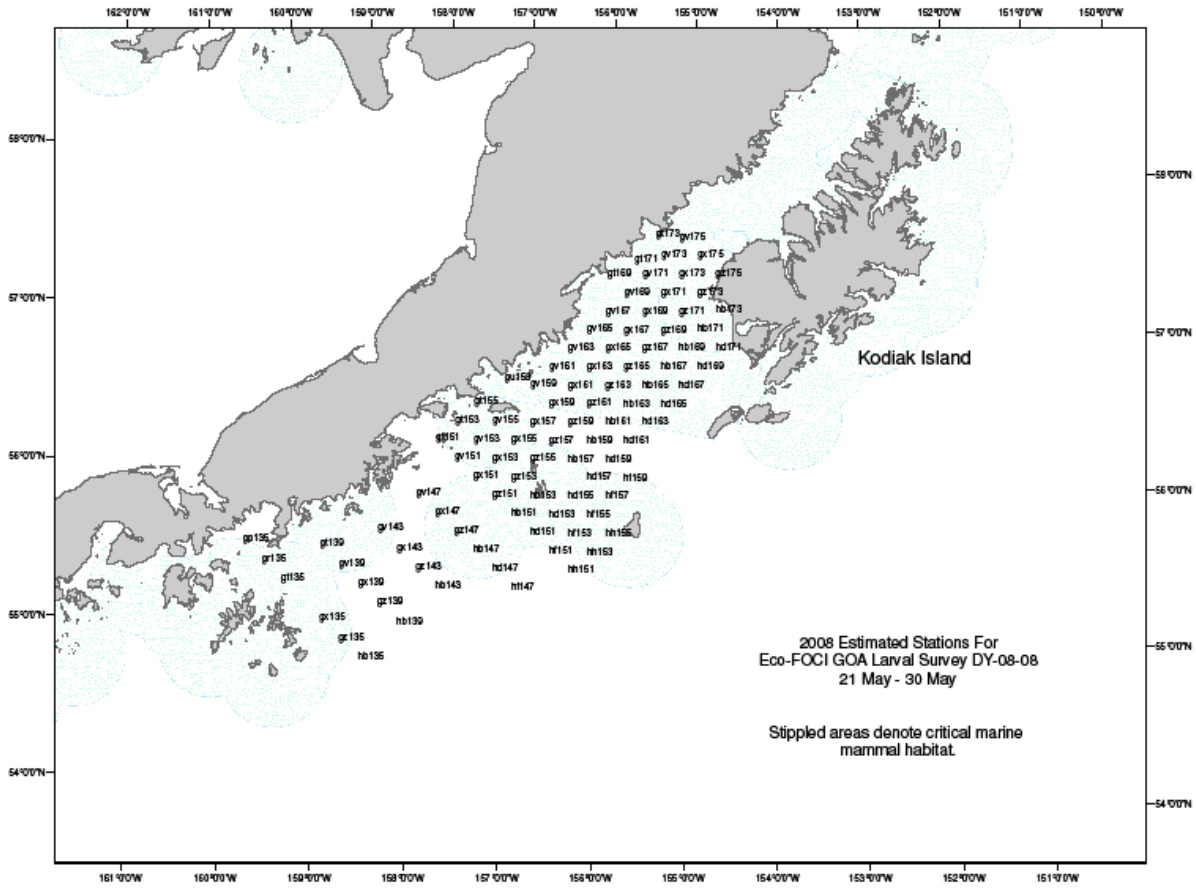
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hd171	56°	54.1224	N	154°	47.7360	W
hb173	57°	8.2668	N	154°	48.0480	W
gz173	57°	15.1542	N	155°	1.0380	W
gx173	57°	22.0410	N	155°	14.0640	W
gv173	57°	28.9284	N	155°	27.1260	W
gt173	57°	37.0000	N	155°	28.0000	W
gv175	57°	36.1854	N	155°	14.2980	W
gx175	57°	29.2986	N	155°	1.2720	W
gz175	57°	22.4112	N	154°	48.2820	W

9.2.1 DY-08-08 Line 8 Station Locations and Operations

Station	Latitude	Longitude	Lat (dd)	Lon (dd)	CTDB	Chlor	Nuts	MZ	20/60 Bongo
FOX61	57° 43.20' N	155° 15.60' W	57.72	-155.26	x	x	x	x	x
FOX60	57° 40.80' N	155° 10.20' W	57.68	-155.17	x	x	x	x	x
FOX59	57° 38.40' N	155° 04.20' W	57.64	-155.07	x	x	x	x	x
FOX58	57° 36.60' N	155° 00.60' W	57.61	-155.01	x	x	x	x	x
FOX57	57° 33.00' N	154° 52.80' W	57.55	-154.88	x	x	x	x	x
FOX56	57° 31.20' N	154° 46.80' W	57.52	-154.78	x	x	x	x	x
FOX55	57° 28.80' N	154° 42.00' W	57.48	-154.70	x	x	x	x	x

9.3 DY-08-08 Chartlet



9.4 DY-08-08 Hazmat Inventory

Chemical	CAS Number	Respondee	Org.	Qty	H	F	R	Storage Color Code	Hazard Class	Packing Group Number	UN	Reportable Quantity	Response Indices
Formaldehyde, 37%	50-00-0	Dougherty	AFSC	3, 20-L	3	2	2	Flammable	3 & 8	III	1198	100 LBS	1
Formaldehyde, 37%	50-00-0	Dougherty	AFSC	3, 1-L	3	2	2	Flammable	3 & 8	III	1198	100 LBS	1
Ethyl Alcohol	N/A	Dougherty	AFSC	4, 4-L	3	3	1	Flammable	3	I, II, III	1987		1
95% denatured Alcohol	N/A	Dougherty	AFSC	4, 4-L	2	3	1	Flammable	3	I, II, III	1993		1
Ethylene glycol	107-21-1	Dougherty	AFSC	1, 250-ml	2	1	1	General	Not regulated	N/A		5,000 lbs	2
Sodium Borate Solution, Saturated	mix	Dougherty	AFSC	20-L	1	0	0	General	Not regulated	N/A			2

Spill Response 1: Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, or earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. **Do not flush to sewer!** If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the U.S. Coast Guard National Response Center is (800) 424-8802.

Spill Response 2: Ventilate area of leak or spill. Wear appropriate personal protective equipment. Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

9.5 Deemed Exports-NAO 207-12

Per the reference in Sec. 3.1.2.1, the NMAO guidance for ships (dated 11-14-06) regarding compliance with the policies of NAO 207-12 is herein incorporated for reference applicable to EcoFOCI individual cruise instructions:

Foreign National Access Guidance for NMAO Installations

All foreign national access must be in compliance with NAO 207-12. Any access to controlled technology by the foreign national must be in compliance with the facility/platform's Technology Access Control Plan and all export control regulations.

Specific requirements to be provided to the facility Commanding Officer for foreign nationals accessing NMAO facilities/platforms-

1. Written notification identifying the individual who is responsible for compliance with NOAA and export regulations by the foreign national. For scientific party members, the person identified must be from the Program and must be available to oversee the foreign nationals' visit; therefore, they must be on board when the platform is underway. NMAO (ship or shore based) personnel will not act in this capacity unless the foreign national is coming on board for NMAO, AOC or MOC reasons, e.g., MED or EED contractor, NMAO visitor. The responsible individual must be a U.S citizen NOAA employee or have been approved by the servicing security office as a foreign national escort.
2. A copy of the DOC/OSY clearance authorization for access by the foreign national. This isn't standardized and much of the time it comes in the form of an email stating that OSY has forwarded the name of the foreign national to the counter-intelligence (CI) staff and then advising you to proceed with the visit at your own risk. A foreign national who has been issued a NOAA ID badge can/may be considered as cleared; but the sponsor must confirm this with the servicing security office. All OSY badge/clearance issues and questions must be directed to the servicing security office.
3. A copy of the Appendix B of NAO 207-12 with the NOAA Chief Administrative Officer concurrence endorsement. (Certification of Conditions and Responsibilities for Departmental Sponsors of Foreign National Guests) The CAO concurrence on this document signifies that the foreign national's visit has been vetted and approved by the sponsoring Line or Corporate Office Controlled Technology Coordinator or designated senior official. DOC/OSY authorization is contingent upon approval of this certification
4. Written notification that the foreign national has been cleared against the DOC and Treasury Lists to Check. The clearance is required by NAO 207-12, Section 5.03 c, Responsibilities of the Departmental Sponsor/NOAA (DSN).
(<http://www.bis.doc.gov/ComplianceAndEnforcement/ListsToCheck.htm>)
5. Provide the information required on the NOAA Foreign National Spreadsheet for each foreign national. A quarterly report of all foreign nationals accessing your facility is required in the NOAA Foreign National Spreadsheet format. The spreadsheet should be continually maintained.

Most of these requirements are set forth in RADM Debow's memo on Foreign National Access to NMAO Facilities, March 16, 2006. (<http://www.oma.noaa.gov/foreign.html>)

The written notification must be maintained in the facility's records. The form of this notification (email, memo, note, post it, etc) is up to the command.

Note: These are specific requirements so that you are able to determine and demonstrate compliance with NAO 207-12.

NMAO has implemented a specific policy for the default denial of access to NMAO installations and platforms by foreign nationals from specified countries controlled for anti-terrorism reasons and embargoes. The requirements necessary should you wish to allow access to these foreign nationals are outlined below.

Program Export Controlled Items - The Program is responsible for complying with NAO 207-12 and development of Technology Access Control Plans for items they bring aboard. The Program should notify you of any export controlled items they bring aboard and any access restrictions associated with these items. You should cooperate fully in implementing any needed access controls. You should notify the Program of any NMAO-sponsored foreign nationals with access to your facility when Program export controlled items are on board so that they can implement any necessary control measures.

Relationship to approved Cruise Instructions - The appearance of the foreign national's name on the scientific party list, even if the cruise instructions are signed by the lab and the marine center, *in no way clears* the foreign national for access to NOAA property. Access to NOAA property requires compliance with the NAO 207-12.

Relationship of DOC/OSY clearance and cruise instructions to export controls - Clearance by DOC/OSY for a foreign national to access NOAA property, and/or approval of cruise instructions, *in no way* authorizes access by the foreign national to controlled technology. All access to controlled technology must be in accordance with United States law, federal regulations, and Commerce and NOAA policies. Access to export controlled technology is subject to the requirements and limitations of the Export Administration Regulations (EAR), International Traffic in Arms Regulations (ITAR), and Office of Foreign Asset Controls (OFAC) regulations.

Relationship of DOC/OSY clearance to approval by the NOAA Chief Administrative Officer- Clearance by DOC/OSY for a foreign national to access NOAA property *does not* indicate that the foreign national's visit has been approved in accordance with NAO 207-12. A signed NAO 207-12 Appendix B with the NOAA Chief Administrative Officer concurrence is required. You must ensure that there is an approved Appendix B for each foreign national. Otherwise, your facility will be subject to an investigation by OSY for unauthorized release of controlled technology to or suspicious behavior by the foreign national.

Espionage Indicators Briefing - Ensure all OMAO personnel onboard receive the briefing on Espionage Indicators (NAO 207-12 Appendix A) at least annually or as required by the servicing Regional Security Officer.

While directly a responsibility of the Departmental Sponsor/NOAA, you must confirm that all non-foreign national members of the scientific party receive the briefing on Espionage Indicators (NAO 207-12 Appendix A) at least annually or as required by the servicing Regional Security Officer.

Escort Requirements

Section 5.10 of NAO 207-12 requires "Foreign national visitors [and guests] must be escorted at all times by a U.S. citizen employee of NOAA while on NOAA property." (Also, see DAO 207-12 Section 5.08). DOC Security has stated that the "unescorted access" provision in 5.10 is unlikely to be approved.

Obviously, this requirement is problematic for vessel cruises where the foreign national will have access 24/7 for extended periods of time. *DOC Security has stated that any alteration of the escort requirements of the NAO must be negotiated with your Regional Security Officer for each specific situation.* The foreign national sponsor will be required to provide escorts to comply with the negotiated requirements.

Use of Personal Electronic Devices by Foreign Nationals – NAO 207-12 Section 5.11 prohibits the use of cell phones, computers, PDAs, cameras, etc. in areas where controlled technology is located. The general guidance is to prohibit the devices from being brought into DOC facilities. This guidance may prove problematic onboard ships. You should work with the servicing Regional Security Officer to establish acceptable restrictions to prevent the unauthorized release of controlled technology.

Foreign National Spreadsheet - The information required for the Foreign National Spreadsheet should be provided to you by the Program for the foreign nationals they sponsor. If the foreign nationals access any NOAA facilities, the information in the spreadsheet must be collected. In any case, the Program is required to clear with the Office of Security (OSY) the foreign nationals for whom they are requesting access to the ship, in accordance with the NAO 207-12, and must provide you with this information so that you, the platform manager, can determine if access is in accordance with NOAA regulations. It is hoped that for most Program foreign national "guests," a copy of the entries in the Program's Foreign National spreadsheet is all that will be needed, with appropriate alterations for access to the ship.

For NMAO sponsored foreign nationals, you must collect the information from the foreign national and their NMAO sponsor (Department Sponsor/ NOAA-DSN).

Unless you decide otherwise, you can enter the Cruise Instruction number in column L (Program under which the foreign national is working at NOAA) in the Foreign National spreadsheet for scientific party personnel. This will allow them to be tied to the specific cruise/program.

Foreign Nationals from Countries Controlled for Anti-Terrorism Reasons

NMAO facilities and platforms have not been fully assessed for items controlled solely for Anti-Terrorism (AT) reasons.

Access to NMAO facilities by foreign nationals from AT-controlled counties is denied.

If access by an AT controlled foreign national is critical to the accomplishment of mission, access may be permitted with:

1. NMAO headquarters approval
2. Full inventory of the facility for items controlled for AT reasons
3. Access Control Information Sheets prepared for each export controlled item on the facility including those controlled solely for AT reasons.
4. Development of a detailed Technology Access Control Plan for the facility that includes items controlled solely for AT reasons. All items other than items classified as EAR99, must be specifically addressed.
5. A Technology Transfer Control Plan for any controlled technology that will be released to the foreign national
6. Receipt of all required export licensed and compliance with all conditions of those licenses.

As of November 2006, countries controlled for AT reasons are: Cuba, Iran, North Korea, Sudan, and Syria. For the latest information consult the Commerce Country Chart at <http://www.access.gpo.gov/bis/ear/pdf/738spir.pdf>

Foreign Nationals from Countries or Individuals Subject to Embargo or Sanctions

See <http://www.treas.gov/offices/enforcement/ofac/index.shtml> for the latest information.

All access by foreign nationals subject to U.S. embargoes or sanctions shall be in full compliance with the Office of Foreign Asset Control (OFAC) regulations.

Individuals appearing on the Specially Designated Nationals List (SDN) are denied from access to NMAO facilities without approval from DOC Security and NMAO headquarters and compliance with any restrictions imposed by the SDN.

Access to NMAO facilities by foreign nationals from Cuba and Iran is denied.

If access by a foreign national from Cuba or Iran is critical to the accomplishment of mission, access may be permitted with:

1. Full compliance with the requirements listed above for AT controlled countries.
2. Development of a detailed Technology Access Control Plan for EAR99 items controlled for Iran or Cuba.

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3. Full compliance with the Cuban Assets Control Regulations (31 CFR 515) and the Iranian Transaction Regulations (31 CFR 560).
4. Receipt of all required OFAC and export licenses and compliance with all conditions of those licenses.

Most other embargo/sanction programs do not impose onerous restrictions on ordinary citizens of those countries but should be reviewed for ensure access is in compliance with such programs. Note: Government officials and employees from sanctioned countries can be severely restricted.

For information regarding NOAA rules regarding foreign national access, deemed exports, and controlled technology: <http://deemedexports.noaa.gov>

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