

Appendix A. Summary of 2002 cruise operations

## Ecosystems Monitoring Survey

**Cruise:** ALB0202  
**Vessel:** R/V Albatross IV  
**Dates:** 22 – 30 January  
**Sea Days:** 7  
**Instrument(s):** 2879, 2277  
**Total # of stations:** 47  
**# of vertical CTD/Profiler casts:** 17  
**# of double oblique Profiler casts:** 47  
**# Salinity samples:** 11  
**Salt correction:** 1495=+0.001; 2277=+0.007

**Cruise Objectives:** To assess the impact of changing biological and physical properties of the Northeast Continental Shelf ecosystem which influence the sustainable productivity of the living marine resources.

## Winter Bottom Trawl Survey

**Cruise:** ALB0203  
**Vessel:** R/V Albatross IV  
**Dates:** 6 February – 2 March  
**Sea Days:** 20  
**Instrument(s):** 2277  
**Total # of stations:** 159  
**# of vertical CTD/Profiler casts:** 85  
**# of double oblique Profiler casts:** 71  
**# Salinity samples:** 25  
**Salt correction:** +0.003

**Cruise Objectives:** To (1) determine the winter distribution and relative abundance of fish and invertebrate species; (2) collect biological samples for studies of age and growth relationships, fecundity, maturity, and food habits; (3) collect hydrographic and meteorological data; (4) make collections of data and samples for cooperative researchers and programs.

## HydroAcoustic Survey

**Cruise:** DEL0201  
**Vessel:** R/V Delaware II  
**Dates:** 22 February – 7 March  
**Sea Days:** 10  
**Instrument(s):** 1447  
**Total # of stations:** 43  
**# of vertical CTD/Profiler casts:** 42  
**# of double oblique Profiler casts:** N/A  
**# Salinity samples:** 2  
**Salt correction:** +0.016

**Cruise Objectives:** The primary goal is to provide fisheries independent abundance estimates of Atlantic herring in the Georges Bank and Gulf of Maine regions, and to calibrate the EK-500 echo-integrator and test the mid-water trawl performance.

## Spring Bottom Trawl Survey

**Cruise:** ALB0204  
**Vessel:** R/V Albatross IV  
**Dates:** 6 March – 26 April  
**Sea Days:** 40  
**Instrument(s):** 2277  
**Total # of stations:** 331  
**# of vertical CTD/Profiler casts:** 222  
**# of double oblique Profiler casts:** 117  
**# Salinity samples:** 38  
**Salt correction:** +0.002

**Cruise Objectives:** To (1) determine the spring distribution and relative abundance of fish and invertebrate species; (2) collect biological samples for studies of age and growth relationships, fecundity, maturity, and food habits; (3) collect hydrographic and meteorological data; (4) make collections of data and samples for cooperative researchers and programs.

## Ecosystems Monitoring Survey

**Cruise:** ALB0206  
**Vessel:** R/V Albatross IV  
**Dates:** 23 May – 2 June  
**Sea Days:** 16  
**Instrument(s):** 2879  
**Total # of stations:** 126  
**# of vertical CTD/Profiler casts:** 26  
**# of double oblique Profiler casts:** 150  
**# Salinity samples:** 23  
**Salt correction:** -0.001

**Cruise Objectives:** To assess the impact of changing biological and physical properties of the Northeast Continental Shelf ecosystem which influence the sustainable productivity of the living marine resources.

## Ecosystems Monitoring Survey

**Cruise:** NOB0201  
**Vessel:** F/V Nobska  
**Dates:** 14 – 29 August  
**Sea Days:** 15  
**Instrument(s):** 2879, 0851  
**Total # of stations:** 122  
**# of vertical CTD/Profiler casts:** 25  
**# of double oblique Profiler casts:** 129  
**# Salinity samples:** 24  
**Salt correction:** +0.009

**Cruise Objectives:** To assess the impact of changing biological and physical properties of the Northeast Continental Shelf ecosystem which influence the sustainable productivity of the living marine resources.

## Scallop Survey

**Cruise:** ALB0208  
**Vessel:** R/V Albatross IV  
**Dates:** 17 July – 15 August  
**Sea Days:** 27  
**Instrument(s):** 1495  
**Total # of stations:** 524  
**# of vertical CTD/Profiler casts:** 144  
**# of double oblique Profiler casts:** N/A  
**# Salinity samples:** 40  
**Salt correction:** +0.008

**Cruise Objectives:** To (1) determine the distribution and relative abundance of the sea scallop *Placopecten magellanicus* and Iceland scallop *Chlamys islandica*; (2) collect biological samples and data relative to assessment needs; (3) monitor hydrographic and meteorological conditions; and (4) make collections for interested scientists at other institutions and laboratories.

## Benthic Habitat

**Cruise:** ALB0209  
**Vessel:** R/V Albatross IV  
**Dates:** 20 – 29 August  
**Sea Days:** 10  
**Instrument(s):** 1495  
**Total # of stations:** 26 (Hydrographic stations)  
**# of vertical CTD/Profiler casts:** 26  
**# of double oblique Profiler casts:** N/A  
**# Salinity samples:** 15  
**Salt correction:** +0.010

**Cruise Objectives:** To monitor the recovery of the benthic habitat in the closed areas.

## HydroAcoustic Survey

**Cruise:** DEL0208  
**Vessel:** R/V Delaware II  
**Dates:** 5 September – 10 October  
**Sea Days:** 24  
**Instrument(s):** 0851, 1496, 0853  
**Total # of stations:** 112 (Hydrographic stations)  
**# of vertical CTD/Profiler casts:** 112  
**# of double oblique Profiler casts:** N/A  
**# Salinity samples:** 0  
**Salt correction:** N/A

**Cruise Objectives:** The primary goal is to provide fisheries independent abundance estimates of Atlantic herring in the Georges Bank and Gulf of Maine regions, and to calibrate the EK-500 echo-integrator and test the mid-water trawl performance.

## Fall Groundfish Survey

**Cruise:** ALB0210  
**Vessel:** R/V Albatross IV  
**Dates:** 4 September – 25 October  
**Sea Days:** 41  
**Instrument(s):** 1495  
**Total # of stations:** 334  
**# of vertical CTD/Profiler casts:** 217  
**# of double oblique Profiler casts:** 120  
**# Salinity samples:** 60  
**Salt correction:** -0.004

**Cruise Objectives:** To (1) determine the autumn distribution and relative abundance of fish and invertebrate species; (2) collect biological samples for studies of age and growth relationships, fecundity, maturity, and food habits; (3) collect hydrographic and meteorological data; (4) make collections of data and samples for cooperative researchers and programs.

## Benthic Habitat

**Cruise:** OC384  
**Vessel:** R/V Oceanus  
**Dates:** 24 October – 2 November  
**Sea Days:** 10  
**Instrument(s):** 1447  
**Total # of stations:** 17 (hydrographic stations)  
**# of vertical CTD/Profiler casts:** 17  
**# of double oblique Profiler casts:** N/A  
**# Salinity samples:** 0  
**Salt correction:** N/A

**Cruise Objectives:** To monitor the recovery of the benthic habitat in the closed areas.

## Ecosystem Monitoring

**Cruise:** DEL0210  
**Vessel:** R/V Delaware II  
**Dates:** 29 October – 14 November  
**Sea Days:** 16  
**Instrument(s):** 0853  
**Total # of stations:** 1109  
**# of vertical CTD/Profiler casts:** 21  
**# of double oblique Profiler casts:** 112  
**# Salinity samples:** 19  
**Salt correction:** +0.007

**Cruise Objectives:** To assess the impact of changing biological and physical properties of the Northeast Continental Shelf ecosystem which influence the sustainable productivity of the living marine resources.