LEGEND

Labels are EVI ID #
See accompanying data

Threatened & Endangered Species

- Piping Plover / Least Tern Essential Habitat
- Roseate Tern Essential Habitat
- Bald Eagle Essential Habitat
- Harlequin Duck Wintering Habitat
- Atlantic Salmon Habitat (where endangered)
- Other Coastal Threatened or Endangered Species
- Species of Special Concern

SA = Sensitive Animal **SP = Sensitive Plant**

Birds

- Shorebird Areas
- Seabird Nesting Islands
  Red outline if threatened or endangered species present on island

EVI ID #
RANKING

Rankings: C=Critical HV=Highly Vulnerable MV= Moderately Vulnerable V=Vulnerable

Rafting Birds **Areas with counts greater than 200 individuals 2000 - 2004 Aerial Survey Data**

- Fall Rafting Bird Observations
- Summer Rafting Bird Observations
- Winter Rafting Bird Observations
- Spring Rafting Bird Observations

Fish

- Diadromous Fish Runs
- Elver Runs
- Herring Spawning Areas

Shellfish

- Lobster Pounds
- Shellfish Beds
- Mussel Seed Conservation Areas

Habitats

- Marine Worm Areas
- Eelgrass Beds
- Seal Haul-Outs

Human Resources

- Aquaculture Lease Sites
- Herring Weir Sites
- Lobster Dealers
- Conservation Lands
- Boat Launch State Sponsored or Assisted, Trailerable

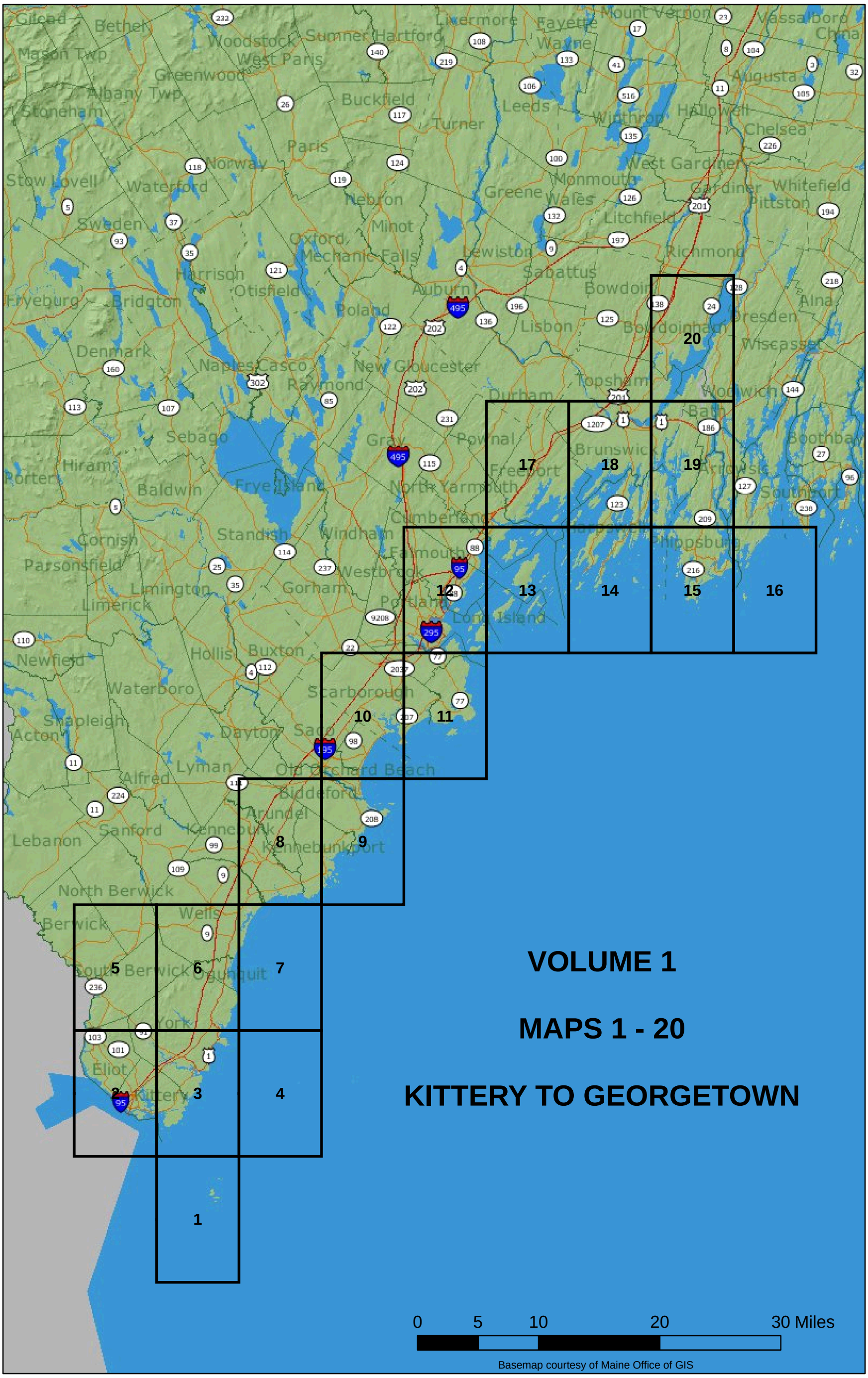
Coastal Marine Geologic Environments

Ranked from most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

Coastal Barrier Resources System Area

MAINE ENVIRONMENTAL VULNERABILITY INDEX MAPS



EVI INDEX BY TOWN

TOWN	MAP NUMBERS	VOL
Addison	79, 80, 83, 84	4
Alna	32, 33, 40	2
Appleton	41	2
Arrowsic	19, 24	1, 2
Arundel	8	1
Augusta	45, 46	2
Bangor	75, 76	3
Bar Harbor	60, 61, 62, 68, 69	3
Bath	19, 20	1
Beals	80, 81	4
Belfast	47, 49, 64	2, 3
Belgrade	45	2
Belmont	47, 49	2
Berwick	5	1
Biddeford	8, 9, 10	1
Blue Hill	59, 60, 65, 66, 67	3
Boothbay	16, 21, 24, 25	1, 2
Boothbay Hbr	24, 25	2
Bowdoin	20	1
Bowdoinham	20	1
Bremen	26, 34, 35	2
Brewer	76	3
Bristol	21, 25, 26, 27, 33, 34	2
Brooklin	54, 55, 59, 60	3
Brooks	49	2
Brooksville	48, 58, 59, 65	2, 3
Brunswick	17, 18, 19, 20	1
Bucksport	71, 72, 76	3
Calais	97, 98	4
Camden	42, 43, 47	2
Cape Elizabeth	11	1
Castine	48, 58, 64, 65	2, 3
Centerville	84, 89	4
Charlotte	94	4
Chelsea	40, 45, 46	2
Cherryfield	82	4
Columbia	82, 83	4
Columbia Falls	83, 84	4
Cranberry Isles	56, 57, 61, 62, 63	3
Criehaven Twp	23, 30, 31	2
Cumberland	12, 13, 14	1
Cushing	27, 35, 56	2
Cutler	86, 87, 88, 90, 91, 92	4
Damariscotta	33, 34	2
Deblois	82	4
Dedham	76	3
Deer Isle	44, 48, 53, 54, 55, 58, 59	2, 3
Dennysville	94	4
Dresden	20, 32, 40	1, 2
Durham	17	1
East Machias	89, 90	4
Eastbrook	73, 74	3
Eastport	95, 96	4
Eddington	76	3
Edgecomb	24, 25, 32, 33	2
Edmunds Twp	91, 92, 94, 95	4
Eliot	2, 5	1
Ellsworth	66, 67, 68, 73	3
Falmouth	12, 13	1
Farmingdale	40, 45, 46	2
Frankfort	71	3
Franklin	68, 69, 73, 74	3
Freeport	13, 17, 18	1

TOWN	MAP NUMBERS	VOL
Frenchboro	55, 56, 57, 60	3
Friendship	26, 27, 34, 35	2
Gardiner	40	2
Georgetown	15, 16, 19, 24	1, 2
Gorham	10	1
Gouldsboro	62, 63, 69, 70, 77, 78	3, 4
Hallowell	45, 46	2
Hampden	71, 75, 76	3
Hancock	68, 69, 73	3
Harpswell	13, 14, 15, 17, 18, 19	1
Harrington	79, 82, 83	4
Hermon	75	3
Holden	76	3
Hope	41, 42	2
Isle Au Haut	39, 50, 51, 53, 54, 55	2, 3
Islesboro	43, 44, 47, 48	2
Jonesboro	84, 85, 89	4
Jonesport	80, 81, 84, 85, 86	4
Kennebunk	7, 8	1
Kennebunkport	7, 8, 9	1
Kittery	1, 2, 3, 4	1
Lamoine	68, 69	4
Lincolnville	47	2
Long Island	12, 13	1
Lubec	92, 93, 95, 96	4
Lyman	8	1
Machias	85, 86, 89, 90	4
Machiasport	85, 86, 90	4
Manchester	45	2
Mariaville	73	3
Marion Twp	90, 91, 94	4
Marshfield	89, 90	4
Matinicus Isle Plt	23, 27, 28, 29, 30, 31, 36, 37	2
Milbridge	77, 78, 79, 82, 83	4
Monhegan Island Plt	22, 26, 27	2
Monroe	49	2
Mount Desert	60, 61, 62	3
Muscle Ridge Shoals Twp	28, 36, 37, 38	2
Newcastle	33	2
No 14 Twp	94	4
Nobleboro	33, 34	2
North Berwick	5, 6	1
North Haven	37, 38, 43, 44, 53	2, 3
North Yarmouth	17	1
Northfield	89	4
Northport	47, 48, 49, 64	2, 3
Ogunquit	6, 7	1
Old Orchard Beach	10	1
Orland	65, 66, 72	3
Orono	76	3
Orrington	71, 72, 75, 76	3
Owls Head	36, 37, 43	2
Pembroke	94, 95	4
Penobscot	58, 65, 66	3
Perkins Twp	20	1
Perkins Twp Swan Island	20	1
Perry	94, 95, 97	4
Phippsburg	15	1
Pittston	40	2
Pleasant Point Ind Res	95	4
Portland	11, 12, 13, 14	1
Pownal	17	1
Prospect	64, 71, 72	3
Randolph	40, 46	2

TOWN	MAP NUMBERS	VOL
Readfield	45	2
Richmond	20, 32, 40	1, 2
Robbinston	97	4
Rockland	36, 37, 42, 43	2
Rockport	42, 43	2
Roque Bluffs	85, 86	4
Saco	9, 10, 11	1
Saint George	22, 26, 27, 28, 35, 36	2
Scarborough	10, 11	1
Searsport	49, 64, 71	2, 3
Sedgwick	58, 59, 65, 66	3
Sidney	45, 46	2
Sorrento	69	3
South Berwick	5, 6	1
South Bristol	21, 25, 33	2
South Portland	10, 11, 12	1
South Thomaston	36, 37	2
Southport	16, 21, 24, 25	1, 2
Southwest Harbor	56, 57, 61	3
Steuben	70, 77, 78, 82	3, 4
Stockton Springs	64, 65, 71, 72	3
Stonington	53, 54	3
Sullivan	69, 70, 74	3
Surry	60, 66, 67	3
Swans Island	51, 54, 55, 56	3
Swanville	49	2
T10 SD	74	3
T16 MD	74	3
T18 ED BPP	89, 90	4
T7 SD	70, 78	3, 4
T8 SD	73	3
T9 SD	74	3
Thomaston	36, 42	2
Topsham	18, 19, 20	1
Tremont	55, 56, 60, 61	3
Trenton	60, 61, 67, 68	3
Trescott Twp	88, 91, 92, 93, 95	4
Union	41, 42	2
Vassalboro	46	2
Veazie	76	3
Verona	65, 72	3
Vinalhaven	31, 37, 38, 39, 44, 53	2
Waldo	49	2
Waldoboro	34, 35, 41	2
Waltham	73	3
Warren	35, 36, 41, 42	2
Washington	41	2
Wells	5, 6, 7, 8	1
West Bath	19	1
West Gardiner	45	2
Westbrook	12	1
Westport	24, 32	2
Whitefield	40, 46	2
Whiting	90, 92, 92	4
Whitneyville	85, 89	4
Windsor	46	2
Winter Harbor	62, 63, 69, 70, 77	3
Winterport	71, 72, 75	3
Winthrop	45	2
Wiscasset	24, 32, 33	
Woolwich	19, 20, 24, 32	1, 2
Yarmouth	12, 13, 17	1
York	2, 3, 4, 5, 6, 7	1

MAINE ENVIRONMENTAL VULNERABILITY INDEX MAPS

INTRODUCTION

This four volume set of Environmental Vulnerability Index Maps depicts environmental resources along the coast of Maine most at risk from oil spilled into the marine or estuarine environment. The maps show biological, geological and human use resources. It is important to note that these maps are not an exhaustive inventory of marine and estuarine species, but are a survey meant to give first responders a tool for prioritizing and targeting protection strategies.

The first maps of environmental resources sensitive to oil spills were prepared for Maine in 1985 in conjunction with the National Oceanic and Atmospheric Administration's Office of Response and Restoration. The 1989 Exxon Valdez oil spill in Alaska's Prince William Sound led to the federal Oil Pollution Control Act of 1990, which required that regional Area Contingency Plans be developed for oil spill preparation and response. Also in 1990, the state of Maine formed the Commission to Study Maine's Oil Spill Clean-Up Preparedness, out of which came funds from the legislature for identification of sensitive environmental resources. Several new data sets showing coastal marine geologic environments, coastal wildlife resources and marine resources and habitats were compiled, and Maine's first set of Environmental Vulnerability Index (EVI) maps, a 78 map series in 24 x 36 inch format, was published in 1999. This Version 2 series of EVI maps supercedes and expands upon the original 1999 maps.

The Environmental Vulnerability Index maps, now in 11 x 17 inch format, draw heavily upon standards published in NOAA Technical Memorandum NOS OR&R 11, "Environmental Sensitivity Index Guidelines"[1] in an effort to conform more closely with NOAA's Environmental Sensitivity Index mapping program. In particular, the map and data format, color scheme and symbology of the EVI maps mirror those of the national ESI program. The major difference with the EVI maps is that each data set is shown separately rather than in combination, and several data sets unique to Maine (such as essential habitat areas) are utilized as outlined in the sections below. Each map has an accompanying data sheet that gives specific information on species occurrence and life history.

Map Symbology: Data shown on the maps consist of polygon or point coverages and an accompanying label as shown on the description of each data set below and in the map legend. The symbol and polygon fill colors help to indicate what type of resource is being depicted. Threatened and endangered species are symbolized and outlined in red for ease of identification. Bird habitats shown as polygons are in green, as are bird symbols for those species that are not threatened or endangered. Rafting bird areas are outlined with colors that help to indicate which season they were present (red for fall, gray for winter, green for spring and yellow for summer). Fish symbols are blue, and shellfish areas are shown in yellow-orange. Eelgrass beds and marine worm areas are shown in purple and maroon, respectively. Human resources (aquaculture sites, herring weir sites, boat launches, etc.) are shown in black and white. The coastal marine geologic environments are also shown in colors to help indicate what is depicted: marshes are green, mudflats brown, beaches yellow, etc.

Bird Vulnerability Rankings: Unless otherwise indicated, bird habitat sites are ranked according to their importance for protection in the event of an oil spill in accordance with the Maine Department of Inland Fisheries and Wildlife's "Index of Vulnerability of Marine Birds to Oil Spills in Maine".[2] The method is a modification of the bird oil index developed by Speich, et al in 1991.[3] Season-specific index values were developed based on 5 seasons: nesting, post-nesting, fall migration, winter, and spring migration. The rankings incorporate the vulnerability of particular species as determined by behavior (roosting, escape behavior, flocking, nesting concentration and feeding specialization), as well as vulnerability as determined by population characteristics (population size, reproductive potential, and seasonal distribution). The rankings also incorporate the significance of the Maine coast population to the coastal New England / Maritime Canada population.

DATA SETS

THREATENED AND ENDANGERED SPECIES

Threatened and endangered species information is shown on the maps as a combination of essential habitat areas and areas where species are known to be located through occurrence records. Although many of these species will not be affected directly by an oil spill, they may be adversely affected by the response effort (e.g. staging areas). The appropriate state or federal designation is shown on the accompanying data sheets. For plants, and for species identified through occurrence records, threatened or endangered species are shown that are within 500 feet of a coastal marine geologic environment. No federally threatened or endangered plant species are found in coastal areas in Maine.

Maine's Endangered Species Act requires that both threatened and endangered species and their habitats be protected. Essential habitats are those that have been determined to be essential to the conservation of a species by the Maine Department of Inland Fisheries and Wildlife. Essential habitats have been identified for piping plovers, least terns, bald eagles and roseate terns.

Piping Plover / Least Tern Essential Habitat (PP/LT)
This coverage consists of 12 piping plover / least tern essential habitats. These areas should be a priority for protection between April and August, and include nesting, feeding and brood-rearing areas. Piping plovers are listed as endangered in Maine, and federally as threatened. Least terns are listed as endangered in Maine. The coverage was last revised in 2002.

Roseate Tern Essential Habitat (RT)
There are 22 identified roseate tern essential habitats. They are a priority for protection between June and September. Roseate terns are listed as endangered both federally and in Maine. The layer was last revised in 2002.

Bald Eagle Essential Habitat (BE)
There are 296 bald eagle essential habitats within the coastal townships. They are a priority for protection between February and September. Sites must be within a nesting area occupied in at least one of the three most recent years of the survey, and have either a nest that has existed for two consecutive years, or the only existing nest in that nesting area. Bald eagles are currently listed as threatened federally and in Maine. The data set was last updated in 2005.

Harlequin Duck Wintering Habitat (HD)
This coverage consists of 118 harlequin duck habitats. The vulnerability of the areas is ranked as Vulnerable, Moderately Vulnerable or Highly Vulnerable. Vulnerability is based on the maximum number of harlequin ducks observed at each site during the fall migration, winter, or spring migration seasons (November through March), in combination with the bird vulnerability rankings described in the last section. The highest rank was considered the overall site rank. The data was updated in 2005.

Atlantic Salmon Habitat
This data set was prepared by the U.S. Fish and Wildlife Service Gulf of Maine Project Office and the Maine Atlantic Salmon Commission. The original data set contains information on habitat categories and areal extent, as well as an indication of spawning and rearing potential of Atlantic Salmon habitats. The coverage was developed from field surveys. On November 13, 2000, the National Marine Fisheries Service and the U. S. Fish and Wildlife Service announced that Atlantic salmon populations in 8 Maine rivers (Dennys, East Machias, Machias, Pleasant, Narraguagus, Ducktrap and Sheepscot rivers and Cove Brook) were officially declared endangered. The data shown on the EVI are meant to be indicative only of the possible presence of Atlantic salmon in those rivers. Portions of the original data set showing selected tributaries of the Kennebec and Penobscot rivers have been removed.

Other Threatened or Endangered Species
(SA: sensitive animal or SP: sensitive plant)

This data layer includes zoological data maintained by the Maine Department of Inland Fisheries and Wildlife as part of "Biotics of NatureServe", an information management component of the Natural Heritage Program created by the Nature Conservancy (http://www.natureserve.org/prodServices/biotics.jsp). The data are mapped as points, and represent occurrence records for rare wildlife species in Maine. The EVI layer combines this zoological information with the locations of rare plants and rare and exemplary natural communities in Maine as mapped by the Maine Natural Areas Program, also as part of the Natural Heritage Program. Threatened and endangered animals and plants occurring within 500 feet of a coastal marine geologic environment are shown on the EVI maps. Species already identified in conjunction with essential habitat areas have been removed from the layer. The plant areas are polygons, and are shown, where appropriate, with both the "pushpin" symbol and a pattern outlining the extent of the area (). Both data sets were published in 2003.

Species of Special Concern
(SA: sensitive animal or SP: sensitive plant)

Species of Special Concern information is compiled from the same sources as the Threatened or Endangered Species above. Species of Special Concern are denoted with a yellow-orange pushpin and, where appropriate, with an associated fill symbol ().

SEABIRDS, SHOREBIRDS AND RAFTING BIRDS

Seabird Nesting Islands (##-###)

This data layer is a subset of the statewide coverage of seabird nesting islands (island, ledge or portion thereof) maintained by the Maine Department of Inland Fisheries and Wildlife. Data are representative of annual survey efforts. All islands are not surveyed annually but have been periodically surveyed since 1976. Each seabird nesting island (487) was ranked as Not Vulnerable, Vulnerable, Moderately Vulnerable or Highly Vulnerable for the nesting and post-nesting seasons. Seabird nesting islands that were ranked as "Not Vulnerable" during the 2004 season are not shown. The data include islands with a record of nesting seabird pairs, including but not limited to islands regulated under the Maine Department of Environmental Protection's Natural Resources Protection Act. Any island that has documentation of one or more nests of a seabird that is a Maine endangered or threatened species in any year during or since 1976 is outlined in red, as is its symbol. The data set was last revised in 2005.

Shorebird Areas (SB)

Shorebird staging habitat consists of coastal areas that provide both tidal mud flats rich in invertebrates for feeding and areas such as gravel bars and sand spits for roosting. Use of areas (feeding, roosting or both) was determined through surveys. Each of the 570 shorebird areas was ranked as Not Vulnerable, Vulnerable, Moderately Vulnerable or Highly Vulnerable for each of the following seasons: post nesting, fall, and winter, based on the number of each species observed at the site. The highest site rank was considered the overall site rank. Sites ranked as "Not Vulnerable" are not shown on the map. Due to the large number of shorebird areas and the repetition of species names, the accompanying data sheet combines all shorebirds on each map extent for the species list. A species list for each polygon is available. Unidentified species were removed from the site-specific species list under some conditions. The data set is from the Maine Department of Inland Fisheries and Wildlife, last updated in 2005.

Winter (W) Spring (Spr) Summer (Su) Fall (F) **Rafting Birds**

Rafting bird areas are based on data collected by Maine Department of Inland Fisheries and Wildlife staff in cooperation with the U.S. Fish and Wildlife Service. The data are from aerial surveys of coastal waterbirds conducted over several seasons from 2000 through 2004. Winter data were obtained from coastal mid-winter waterfowl surveys of 2004. Bird counts were combined with vulnerability rankings to calculate a density number in order to pinpoint the most important rafting bird habitat areas. Density contours were plotted, and areas with numbers indicating concentrations of 200 or more individuals are shown on the maps.

FISH

Diadromous Fish (DF)

Contains point locations of streams and rivers in Maine with runs and passages of anadromous and catadromous fish. Anadromous fish make wide use of coastal areas. During spawning periods adults pass into fresh water and spawn. Catadromous fish (eels) spawn in the ocean and return to fresh water as juveniles. The locations shown here represent the importance of a passage location as well as a larger area that is used seasonally by one or more fish species or life stages. Data for this coverage were screen digitized by the Maine Department of Marine Resources from the Coastal Marine Resources Inventory (1981 - 1984)[4] and Ecological Characterization of Coastal Maine (1980)[5], and were supplemented by U.S. Fish and Wildlife coverages provided by the Gulf of Maine Project Office based on Eipper, et al, 1982.[6]

Elver Runs (ER)

This layer from the Maine Department of Marine Resources shows point locations of major elver runs in Maine where commercial harvesting activities have taken place. Eels return in the spring from the Sargasso Sea as juveniles and large numbers pass into fresh water systems where they grow to adulthood. Others remain in coastal water, but all eventually return to the Sargasso Sea to spawn. Locations shown here are critical for those juvenile eels migrating into fresh water. The layer was last updated in 1996.

Herring Spawning Areas (HS)

These are point locations of important herring spawning areas in Maine[7], prepared specifically for the original oil spill response maps by the Maine Department of Marine Resources. Atlantic herring spawn in coastal water and on Georges Bank. They generally deposit eggs on the bottom in relatively deep water but egg beds have been found in shallow water downeast[8]. The layer was last revised in 1996.

SHELLFISH

Shellfish Beds (SF)

This coverage is a generalized representation of molluscan shellfish areas in Maine, based on a 1977 Maine Department of Marine Resources coastwide survey. Original mapping was done as a cooperative effort between the U.S. Environmental Protection Agency and Maine Department of Marine Resources staff. The layer used in the EVIs was digitized from the original mapping and the U.S. Fish and Wildlife Ecological Characterization of Coastal Maine.[5] The ECCM manuscripts were reviewed for accuracy against the original EPA/DMR maps. This layer was first published as a paper map layer by the Maine State Planning Office in 1977.

Mussel Seed Conservation Areas (MS)

This layer shows polygon locations of Maine mussel seed conservation areas as outlined in the Maine Department of Marine Resources' Rule 12.06. Mussel regulations were implemented in 1988 by the Department of Marine Resources in response to concerns within the industry and legislature that the intensity of the fishery that existed at that time was leading towards resource problems and conflicts between users. One of the major problems was the significant demand for seed mussels by the aquaculture industry. There was a fear that recruitment to the prime wild beds might be impaired if the seed was heavily harvested and transferred to lease sites. The solution was to find an alternate source of seed for the aquaculture industry. To this end, the mussel regulation established four "seed mussel conservation areas", from which only seed-size mussels may be removed for growout. A permit issued by the Department of Marine Resources is required to remove any mussels from the conservation areas.

Lobster Pounds (LP)

This layer shows coastal locations of lobster pounds, defined as intertidal/subtidal areas which have fixed structures for holding lobsters for a finite period of time. These structures may hold large numbers of lobsters and also trap oil, making them difficult to clean or replace. The name of the facility and contact information is

provided on the accompanying data sheet. This layer was updated in 2005.

HABITATS

Marine Worm Habitat

This layer is based on interviews with commercial marine bait worm harvesters and site visits carried out between October 2004 and May 2005. Information was compiled on a 1:24,000 base and screen digitized from original paper documents. Areas represented are known harvest locations and historically have sustained significant populations of the two annelid worm species, *Nereis virens* (sand worm) and *Glycera dibranchiata* (blood worm). The habitat delineated is primarily mixed and fine grained sediment which can be categorized as predominantly intertidal mud flats. Site specific studies associated with this mapping are documented in Atherton, Chen and Thayer, unpublished.[9]

Eelgrass Beds

This dataset depicts Maine's eelgrass meadows. Sections of the coast have been flown and photographed at a scale of 1:12,000 since 1992. The original 1992 Penobscot Bay flights were contracted by the Maine Department of Transportation, with photography interpreted by Dr. Fred Short of the University of New Hampshire. The remainder of the coast was originally flown in the July to October period between 1993 to 1997. Since that time updates have taken place in the 2002-2005 time period. These updates include the geographic area from Saco Bay to eastern Penobscot Bay. When possible throughout this study, photography has been acquired at the time of extreme low tides, low wind velocity, good water clarity, and maximum biomass of eelgrass. These factors aid in the detection of the subtidal portion of a bed. Verification has been carried out by boat, on foot, and by plane. Density categories have been eliminated from these maps to simplify display. Though dense patches of eelgrass approximately 6 meters in diameter and less can be identified under good conditions, a conservative estimate of the minimum mapping unit is 150 square meters. This represents a stand approximately 14 meters in diameter.

Seal Haul-Outs

Data for this layer were obtained from the "Digital Atlas of Seal Haul-out Sites in Maine: 1981-2001", authored by Dow, et al, December, 2005.[10] The atlas covers the coastal waters of Maine, from the Isles of Shoals to Cobscook Bay. Aerial surveys were conducted between 1981 and 2001. Seals and pups were identified from the aircraft and then counted using photos taken during the flight. Gray seals started appearing during surveys in 1997, and the areas shown may be either gray or harbor seals or both, although the vast majority are harbor seals. Surveys were conducted during two hours on either side of low tide, when the highest number of seals is expected to be hauled out. The seal haul-outs shown on the EVI maps are 967 distinct sites taken from the 6,973 total observations over the 20 year study. The complete data set can be downloaded and viewed at the OBIS-SEAMAP web site: http://seamap.env.duke.edu.

HUMAN RESOURCES

LOBSTER DEALERS (LD)

Lobster dealers typically run the wharf in the harbor the lobstermen fish out of, and where they return to sell their catch.[11] These facilities may have subsurface intakes that supply water to holding tanks, and/or floating crates or "cars" holding lobsters. This is an inventory of licensed Maine lobster dealer locations and contact information for wharved sites that buy lobsters from five or more lobster boats. These locations serve as the basis for the Lobster Port Sampling Program (http://www.maine.gov/dmr/rm/lobster/research.htm#P) carried out by the Maine Department of Marine Resources. Locations were last updated in 2005.

HERRING WEIR SITES (HW)

This layer, from the Maine Department of Marine Resources, shows point locations of herring weirs in Maine based on a 1990 overflight by the Maine Department of Marine Resources Marine Patrol. Contact information for these resources is included. The layer was published in 1991. For the most part, herring weirs have not been maintained in recent years. Those that have not been maintained may not be visible at high water and could pose a hazard to navigation.

AQUACULTURE SITES (AQ)

These are locations of Maine aquaculture leases issued by the Maine Department of Marine Resources. All aquaculture operations are marked with buoys and may have: (1) an extension mooring system for fish pens and suspended shellfish culture, (2) floating trays for juvenile shellfish, or (3) may be carried out on the bottom in the case of oysters and clams. The data show the primary species grown and the size of the aquaculture site, as well as contact information. The layer was updated in 2005. Additional information on the leasing program and new or changed lease locations can be found at http://www.maine.gov/dmr/aquaculture/index.htm.

CONSERVATION LANDS (CL)

The conservation lands layer is provided through the Maine Office of GIS and is based on data first compiled by the Maine State Planning Office in 1989. The layer shows conservation lands ownership for Maine land in federal, state and non-profit ownership with easements. The original data were compiled by contacting agencies and organizations to obtain locations of conservation and public lands. The data set was last updated in 1993, and should not be considered to be all-inclusive, but as an inventory only. The Maine State Planning Office is currently revising this data.

BOAT LAUNCHES (BL)

This coverage contains point data for 90 coastal state sponsored or assisted trailerable boat launches compiled by the Maine Department of Conservation, Bureau of Parks and Lands Boating Facilities Division. Division staff initially located points visually from experience and knowledge of sites in 1989. The locations were updated to greater precision by Maine Department of Environmental Protection GIS staff using aerial photos and maps. The data were last revised in 2003, and give an indication of what facilities are available at the launch. The user should be aware that there are many boat launches not included in this layer. The best reference for these is probably DeLorme's "Maine Atlas and Gazeteer", available in local outlets (www.delorme.com).

COASTAL BARRIER RESOURCE AREAS

Coastal barriers are unique land forms that provide protection for diverse aquatic habitats and serve as the mainland's first line of defense against the impacts of coastal storms and erosion. The Coastal Barrier Resource Act (CBRA) established the John H. Chafee Coastal Barrier Resources System, comprised of undeveloped coastal barriers along the Atlantic, Gulf and Great Lakes coasts. The law restricts federal expenditures that encourage development, such as federal flood insurance. The U.S. Fish and Wildlife Service advises federal agencies, landowners and Congress on whether properties are in or out of the CBRS, and what kind of federal expenditures are allowed.[12] The CBRS area boundaries were taken from the Federal Emergency Management Agency's Consolidated CBRA Q3 Flood Data, dated 1998. FEMA's Flood Insurance Rate Maps, or the U.S. Fish and Wildlife Service, should be consulted for more specific boundaries of the CBRS.

COASTAL MARINE GEOLOGIC ENVIRONMENTS

This coverage shows regional characteristics of the Maine coast, and was compiled by the Maine Geological Survey from a 1976 map series. The original map series identifies 55 coastal marine environments. These were condensed into 8 environments for the purposes of the original Environmental Vulnerability Index maps, based on the following criteria: (1) geologic environment, (2) persistence of stranded oil, (3) biological sensitivity, and (4) ease of cleanup. The coastal marine environments are shown in the legend from the most vulnerable (marshes) to least vulnerable (sand dunes - due to their location). Subtidal and altered coastline categories were dropped to help simplify the map.

ARCHAEOLOGICAL SITES

The Maine Historic Preservation Commission maintains a database of historic and archaeological resources. Because of the sensitivity of the data, these sites are not shown on the EVI maps, but are available for display through Maine's Mobile Oil Spill Information System, or mobile GIS, in the event of a spill. The GIS layer prepared for the EVI maps includes 2,500 "prehistoric" sites and 1,500 historic sites within 150 meters of the coast. The oldest of these are Native American "prehistoric" (or before recorded history) archaeological sites. These sites are mostly camping and village locations, including shell heaps along the coast, but they also include rock art, rock quarry and cemetery sites. The sites range in age from the time of European settlement back to the end of the last ice age, 12,000 years ago. Historic archaeological sites, such as farmstead, mill and tavern remains, record European settlement and native life in Maine after about 1600 A.D.[13] These sites are shown in the GIS coverage as 0.5 kilometer squares, within which the archaeological resource is found.

ACKNOWLEDGEMENTS

Many individuals and agencies contributed to this update of the Environmental Vulnerability Index Maps. Particular credit should go to Nicole Munkwitz of the Maine Department of Inland Fisheries and Wildlife and Seth Barker of the Maine Department of Marine Resources for the many hours of work they spent revising data sets and compiling life history information. Richard Dressler of MDIF&W and John Kenney, formerly of that agency, also laid much of the groundwork for the current update. Dr. Stephen Dickson and Peter Slovinsky of the Maine Geological Survey reviewed and critiqued geological information. Dr. Arthur Spiess and Liz Trautman of the Maine Historic Preservation Commission assembled a new data set for the GIS system. Stephen Lehmann of NOAA's Office of Response and Restoration contributed comments and his expertise for the map revision. At the Maine Department of Environmental Protection, Barbara Parker, Lyle Hall, Stephen Flannery and Sheryl Bernard reviewed the maps throughout the process, and Chris Halsted created a customized ArcMap tool to extract data from the maps. Ginger McMullin of DEP did the cartography and compiled the database information for the EVIs. The maps were created as a personal geodatabase in ArcMap 9.0 using the Map Book Developer Sample and Maplex extension.

Many others reviewed, were contacted, or contributed comments and additional information for the maps, including Stu Fefer of U.S. Fish & Wildlife's Gulf of Maine Project Office, Don Cameron of the Maine Natural Areas Program, Andrew Raddant of the U.S. Department of the Interior, Chris Boelke and Sean McDermott of the National Oceanic and Atmospheric Administration's Habitat Conservation Division of the National Marine Fisheries Service, Dave Gouveia of NOAA's National Marine Fisheries Service Marine Mammal Division, Wally Jakubas of Maine Inland Fisheries and Wildlife, Rick Schauffler, U.S. Fish & Wildlife Service, Steve Crawford, Environmental Director of the Pleasant Point Passamaquoddy Tribal Nation and John Banks, Director of Natural Resources for the Penobscot Nation. Many thanks to all who participated in this effort.

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MAP 1

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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Not all resources in any specific area will be shown. Contact agencies directly for more information.
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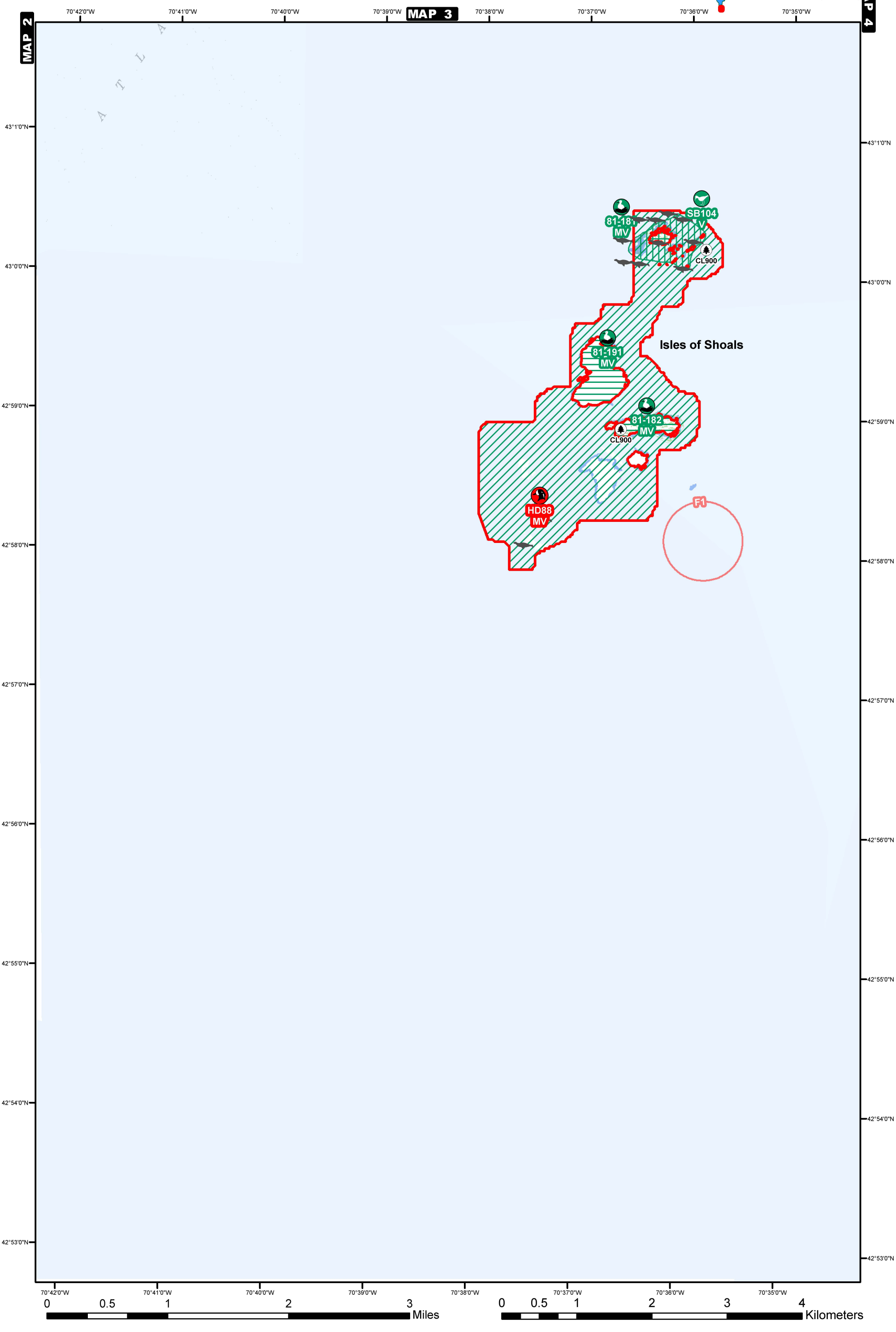

ENVIRONMENTAL SENSITIVITY MAP - 1

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-38-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD88	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
81-181	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-182	Black Guillemot	*Cepphus grylle*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-191	Black-crowned Night Heron	*Nycticorax nycticorax*	SSC			U U C	C C U	U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.		
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Glossy Ibis	*Plegadis falcinellus*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Little Blue Heron	*Hydranassa caerulea*				U U U	U U U	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Snowy Egret	*Egretta thula*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F1	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

CONSERVATION LANDS (CL)

EVI NO	NAME
CL900	MAINE COASTAL ISLANDS NWR

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

Marshes (1)
Mud Flats, Sheltered (2)
Coarse Flats & Bars, Exposed (3)
Coarse Beaches & Riprap (4)
Mixed & Low Energy Beaches (5)
Sand Beaches (6)
Rocky Shores (7)
Sand Dunes (8)

Coastal Barrier Resources System Area

MAP 2

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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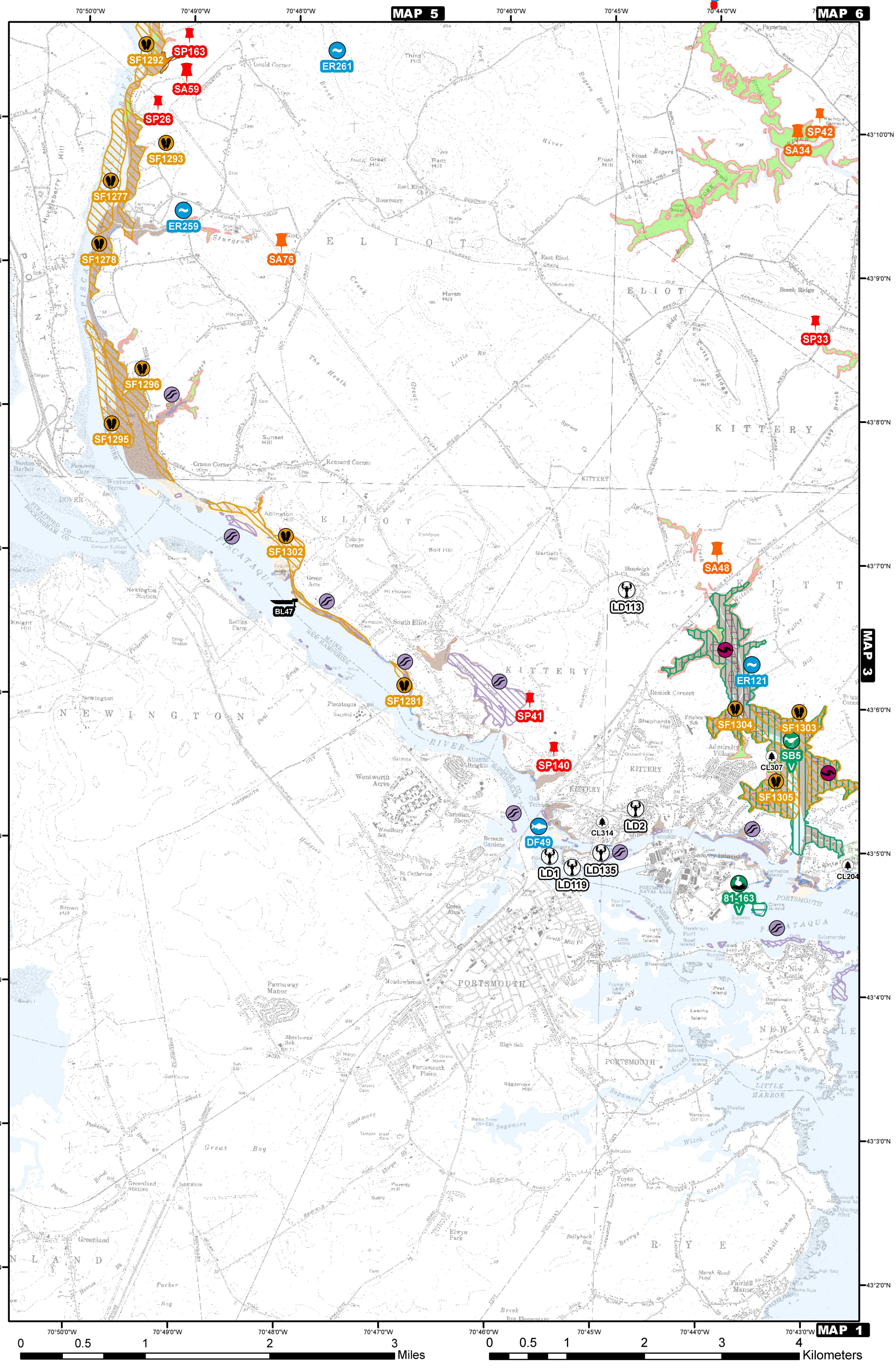

ENVIRONMENTAL SENSITIVITY MAP - 2

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA:

A-04-1	A-04-2	A-04-3	A-05-1	A-06-1	A-07-1	A-08-1	A-08-2	A-09-1	A-09-2
A-10-1	A-11-1	A-11-2	A-12-1	A-13-1	A-13-2	A-14-1	A-15-1	A-15-2	A-16-1
A-17-1	A-23-1	A-24-1	A-25-1	A-27-1	A-28-1	A-29-1	A-30-1	A-31-1	A-32-1
A-33-1	A-34-1	A-35-1	A-36-1						

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
SA34	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA34	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA48	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA59	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA76	Juniper Hairstreak	*Callophrys gryneus*	SC	
SP140	Spotted Wintergreen	*Chimaphila maculata*	E	
SP163	Small Salt-marsh Aster	*Symphyotrichum subulatum*	E	
SP26	Small Salt-marsh Aster	*Symphyotrichum subulatum*	E	
SP33	Eastern Joe-pye Weed	*Eupatorium dubium*	T	
SP41	Bitternut Hickory	*Carya cordiformis*	E	
SP42	Saltmarsh False-foxglove	*Agalinis maritima*	SC	

INVERTEBRATES

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPAWNING	EGGS	PUPAE	JUVENILES	ADULT / FLIGHT
SA76	Juniper Hairstreak	*Callophrys gryneus*	SC		U U U	U U U	U U U	U U U		May - Jun.	Jun.- May		May

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
81-163	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
DF49	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*				x x x	x x x	x x	FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
ER121	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER259	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER261	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1277	oyster eastern / american	*Crassostrea virginica*			x x x	x x x	x x x	x x x	May-Oct.	Jun.-Oct.	Jan-Dec	Jan.-Dec.
SF1278	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1281	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1291	oyster eastern / american	*Crassostrea virginica*			x x x	x x x	x x x	x x x	May-Oct.	Jun.-Oct.	Jan-Dec	Jan.-Dec.
SF1292	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1293	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1295	oyster eastern / american	*Crassostrea virginica*			x x x	x x x	x x x	x x x	May-Oct.	Jun.-Oct.	Jan-Dec	Jan.-Dec.
SF1296	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1302	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1303	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1304	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1305	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD1	WeatherVane Lob. Co.	George Noble	439-0920	
LD113	J.P. Shellfish			
LD119	Island Seafood		439-8508	
LD135	Sea Hag			
LD2	Seaview Lobster Co.	Tom/Kevin Flanigan	439-1599	

CONSERVATION LANDS (CL)

EVI NO	NAME
CL204	FORT McCLARY STATE HISTORIC SITE
CL307	ISLAND

ENVIRONMENTAL SENSITIVITY MAP - 2

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA:

A-04-1	A-04-2	A-04-3	A-05-1	A-06-1	A-07-1	A-08-1	A-08-2	A-09-1	A-09-2
A-10-1	A-11-1	A-11-2	A-12-1	A-13-1	A-13-2	A-14-1	A-15-1	A-15-2	A-16-1
A-17-1	A-23-1	A-24-1	A-25-1	A-27-1	A-28-1	A-29-1	A-30-1	A-31-1	A-32-1
A-33-1	A-34-1	A-35-1	A-36-1						

CONSERVATION LANDS (CL)

EVI NO	NAME
CL314	JOHN PAUL JONES STATE HISTORIC SITE

BOAT LAUNCHES (BL)

(state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL47	DOC	TR	25	Y	ALL	Y

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)
- Coastal Barrier Resources System Area

MAP 3

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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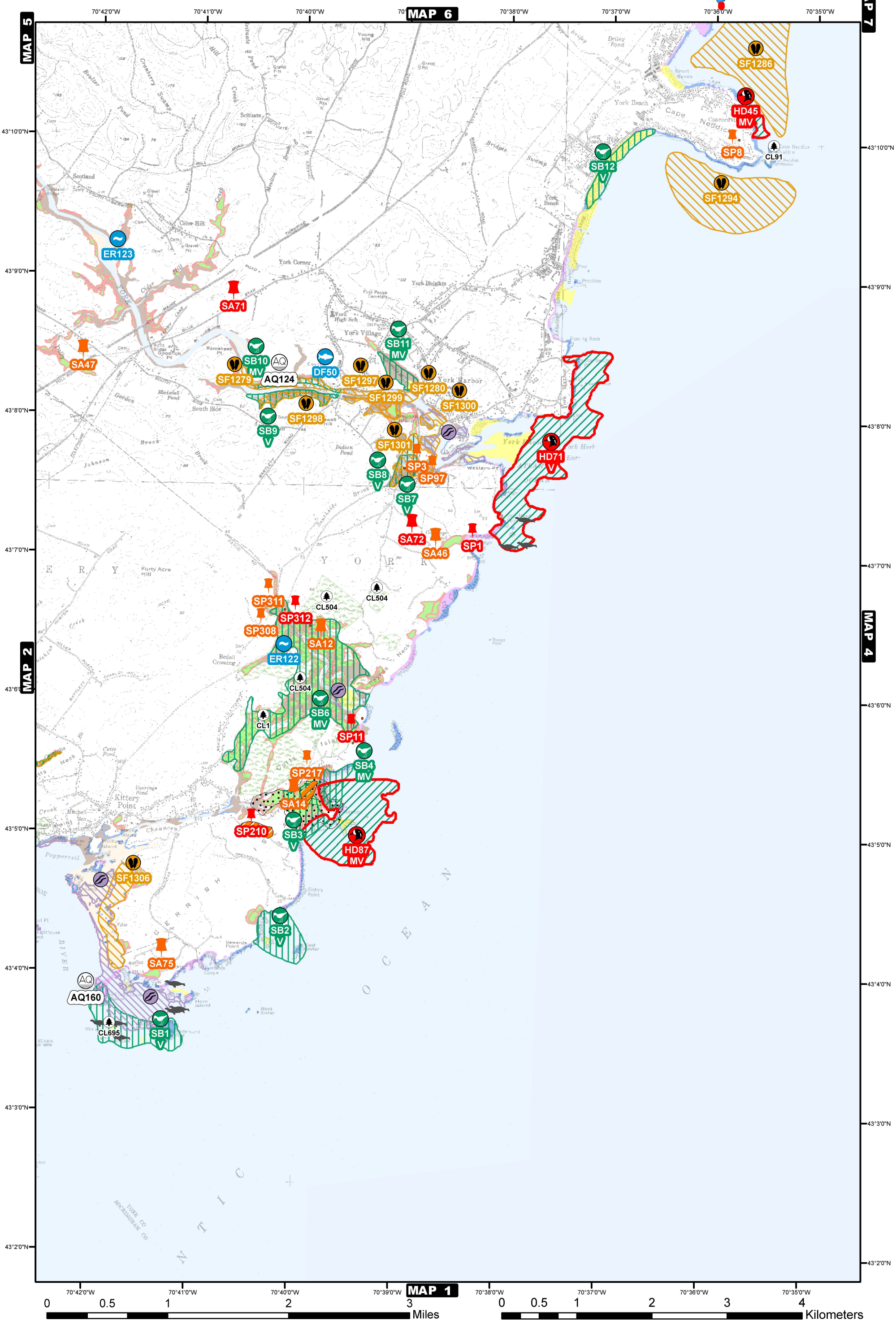

ENVIRONMENTAL SENSITIVITY MAP - 3

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-04-1 A-36-1 A-37-1 A-39-1 A-40-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

MONTHS PRESENT C= COMMON U=UNCOMMON

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD45	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C	C	C	C	U					U	C	C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD71	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C	C	C	C	U					U	C	C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD87	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C	C	C	C	U					U	C	C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
SA12	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC						U	C	C	C	C	U			Apr.- May	May - Aug.	Jul.- Oct.		
SA14	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC						U	C	C	C	C	U			Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA12	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA14	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA46	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA47	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA71	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA72	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA75	Ribbon Snake	*Thamnophis sauritus*	SC	
SP1	Coast-blite Goosefoot	*Chenopodium rubrum*	T	
SP11	Wild Coffee	*Triosteum aurantiacum*	E	
SP210	Scarlet Oak	*Quercus coccinea*	E	
SP217	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP3	Dwarf Glasswort	*Salicornia bigelovii*	SC	
SP308	Dwarf Glasswort	*Salicornia bigelovii*	SC	
SP311	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP312	American Sea-blite	*Suaeda calceoliformis*	T	
SP8	Sweet Pepper-bush	*Clethra alnifolia*	SC	
SP97	Saltmarsh False-foxglove	*Agalinis maritima*	SC	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

MONTHS PRESENT C= COMMON U=UNCOMMON

COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Ruddy Turnstone	*Arenaria interpres*						U	C	C	C	C	C	U	U		Apr.- Jun.		Jul.- Nov.		
Unidentified Dowitcher	*Limnodromus spp.*							C	U	C	C	C	U			May - Jun.		Jul.- Oct.		
Greater Yellowlegs	*Tringa melanoleuca*						C	C	U	U	C	C	C	U		Apr.- Jun.		Jul.- Nov.		
Hudsonian Godwit	*Limosa haemastica*									U	U	U	U					Jul.- Oct.		
Killdeer	*Charadrius vociferus*					U	C	C	C	C	C	C	C	U		Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Least Sandpiper	*Calidris minutilla*							C	U	C	C	C	U			May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*							U		C	C	C	U			May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*						U	C	C	C	C	C	U	U		May - Jun.		Jul.- Oct.		
Black-bellied Plover	*Pluvialis squatarola*							C	C	U	C	C	C	U		May - Jun.		Jul.- Nov.		
Purple Sandpiper	*Calidris maritima*			C	C	C	C	U					U	C	C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Yellowlegs	*Tringa spp.*						C	C	U	U	C	C	C	U		Apr.- Jun.		Jul.- Nov.		
Sanderling	*Calidris alba*							U	U	C	C	C	C	U		May - Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*							C	U	C	C	C	U			May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*							C	C	C	C	C	U			May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*							C	C	C	C	C	U			May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*						U	C	C	C	C	C	U					Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC								U	U	U						Jul.- Sep.		
Willet	*Catoptrophorus semipalmatus*						U	C	C	C	C	C				Apr.- May	May - Aug.	Aug.- Sep.		
Pectoral Sandpiper	*Calidris melanotos*						U	U		U	C	C	U	U		Apr.- May		Jul.- Nov.		

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

MONTHS PRESENT FW=FRESHWATER R=RARE

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAE	JUVENILE	ADULT
DF50	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
ER122	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER123	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

MONTHS PRESENT FW=FRESHWATER R=RARE

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAE	JUVENILE	ADULT
SF1279	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1280	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1286	clam ocean quahog	*Arctica islandica*			x	x	x	x	x	x	x	x	x	x	x	x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1294	clam ocean quahog	*Arctica islandica*			x	x	x	x	x	x	x	x	x	x	x	x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1297	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1298	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1299	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1300	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1301	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1303	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1306	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

MONTHS PRESENT C= COMMON U=UNCOMMON

COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C	C	C	C	C	C	C	C	C	C	C	C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C	C	C	C	C	C	C	C	C	C	C	C		Jan.- Feb.

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ124	oysters	Kevin Tacy	207-363-3255	3.99AC
AQ160	urchins	Chris A. Hill	207-752-2625	3.76AC

ENVIRONMENTAL SENSITIVITY MAP - 3

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-04-1 A-36-1 A-37-1 A-39-1 A-40-1

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL204	FORT McCLARY STATE HISTORIC SITE
CL504	RACHEL CARSON NWR-BRAVE BOAT
CL695	WHALEBACK LIGHT
CL91	CAPE NEDDICK NUBBLE LIGHT

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

Coastal Barrier Resources System Area

MAP 4

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
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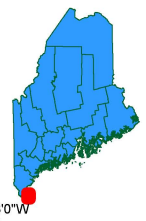

N

MAP 6 | MAP 7 | MAP 3 | MAP 1

70°34'0"W 70°33'0"W 70°32'0"W 70°31'0"W 70°30'W 70°29'0"W 70°28'0"W 70°27'0"W

43°11'0"N 43°10'0"N 43°9'0"N 43°8'0"N 43°7'0"N 43°6'0"N 43°5'0"N 43°4'0"N 43°3'0"N 43°2'0"N

A T L A N T I C

SB13 V

Boon Island

0 0.5 1 2 3 Miles

0 0.5 1 2 3 4 Kilometers

ENVIRONMENTAL SENSITIVITY MAP - 4

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA:

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	

HABITATS:

SEAL HAUL-OUTS

COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

Coastal Barrier Resources System Area

MAP 5

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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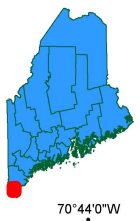

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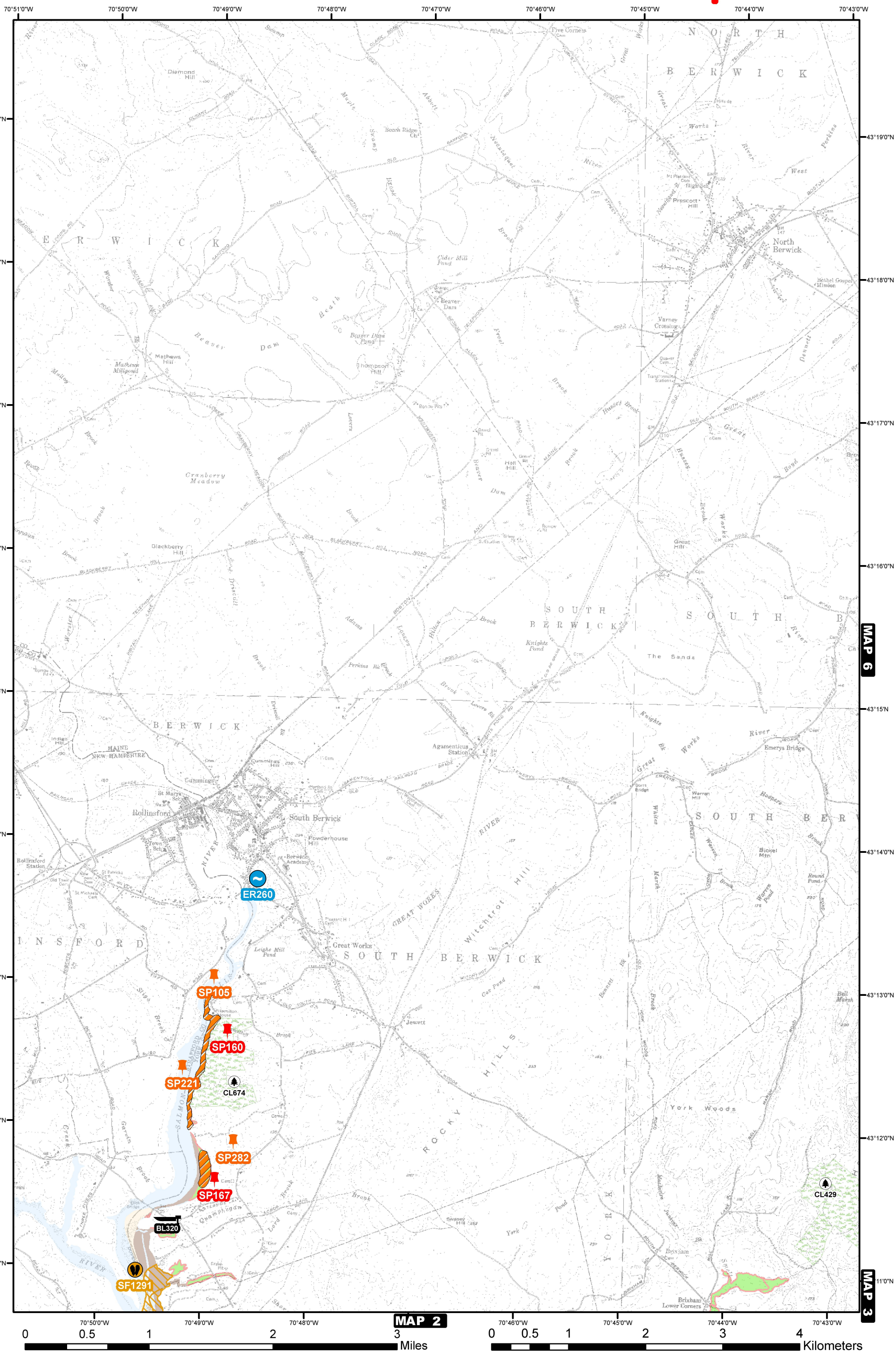

ENVIRONMENTAL SENSITIVITY MAP - 5

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-25-1 A-26-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SP105	Mudwort	*Limosella australis*	SC	
SP160	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP167	Small Salt-marsh Aster	*Symphyotrichum subulatum*	E	
SP221	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP282	Horned Pondweed	*Zannichellia palustris*	SC	

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
ER260	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1291	oyster eastern / american	*Crassostrea virginica*			x x x	x x x	x x x	x x x	May-Oct.	Jun.-Oct.	Jan-Dec	Jan.-Dec.
SF1292	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

CONSERVATION LANDS (CL)

EVI NO	NAME
CL429	MT. AGAMENTICUS TO THE SEA
CL674	VAUGHAN WOODS STATE PARK

BOAT LAUNCHES (BL)

(state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL320	S0UTH BERWICK	TR		N	PART	N

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

Marshes (1)
Mud Flats, Sheltered (2)
Coarse Flats & Bars, Exposed (3)
Coarse Beaches & Riprap (4)
Mixed & Low Energy Beaches (5)
Sand Beaches (6)
Rocky Shores (7)
Sand Dunes (8)

Coastal Barrier Resources System Area

MAP 6

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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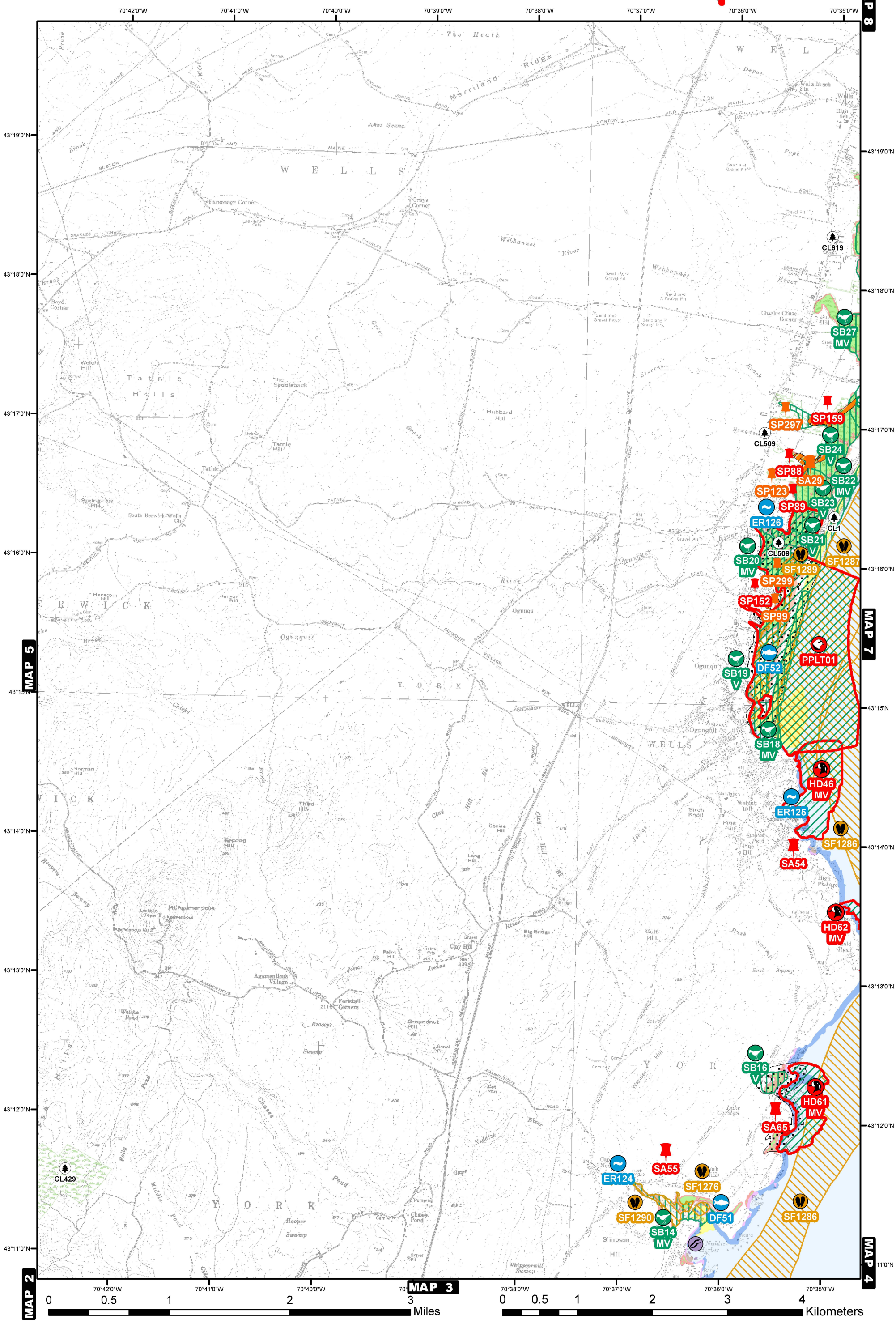

ENVIRONMENTAL SENSITIVITY MAP - 6

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-41-1 A-42-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD46	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD61	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD62	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
PPLT01	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
SA29	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA29	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA54	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA55	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA65	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SP123	Sassafras	*Sassafras albidum*	SC	
SP152	Beach Plum	*Prunus maritima*	E	
SP159	Slender Blue Flag	*Iris prismatica*	T	
SP297	Sassafras	*Sassafras albidum*	SC	
SP299	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP88	Slender Blue Flag	*Iris prismatica*	T	
SP89	Slender Blue Flag	*Iris prismatica*	T	
SP99	Saltmarsh False-foxglove	*Agalinis maritima*	SC	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Unidentified Dowitcher	*Limnodromus spp.*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Pectoral Sandpiper	*Calidris melanotos*				U U	U C C	U U	Apr.- May		Jul.- Nov.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
DF51	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF52	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
ER124	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER125	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER126	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER127	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1276	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1286	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1287	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1288	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1289	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1290	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL429	MT. AGAMENTICUS TO THE SEA
CL508	RACHEL CARSON NWR-LOWER WELLS
CL509	RACHEL CARSON NWR-MOODY
CL619	STORER GARRISON STATE HISTORIC SITE

MAP 7

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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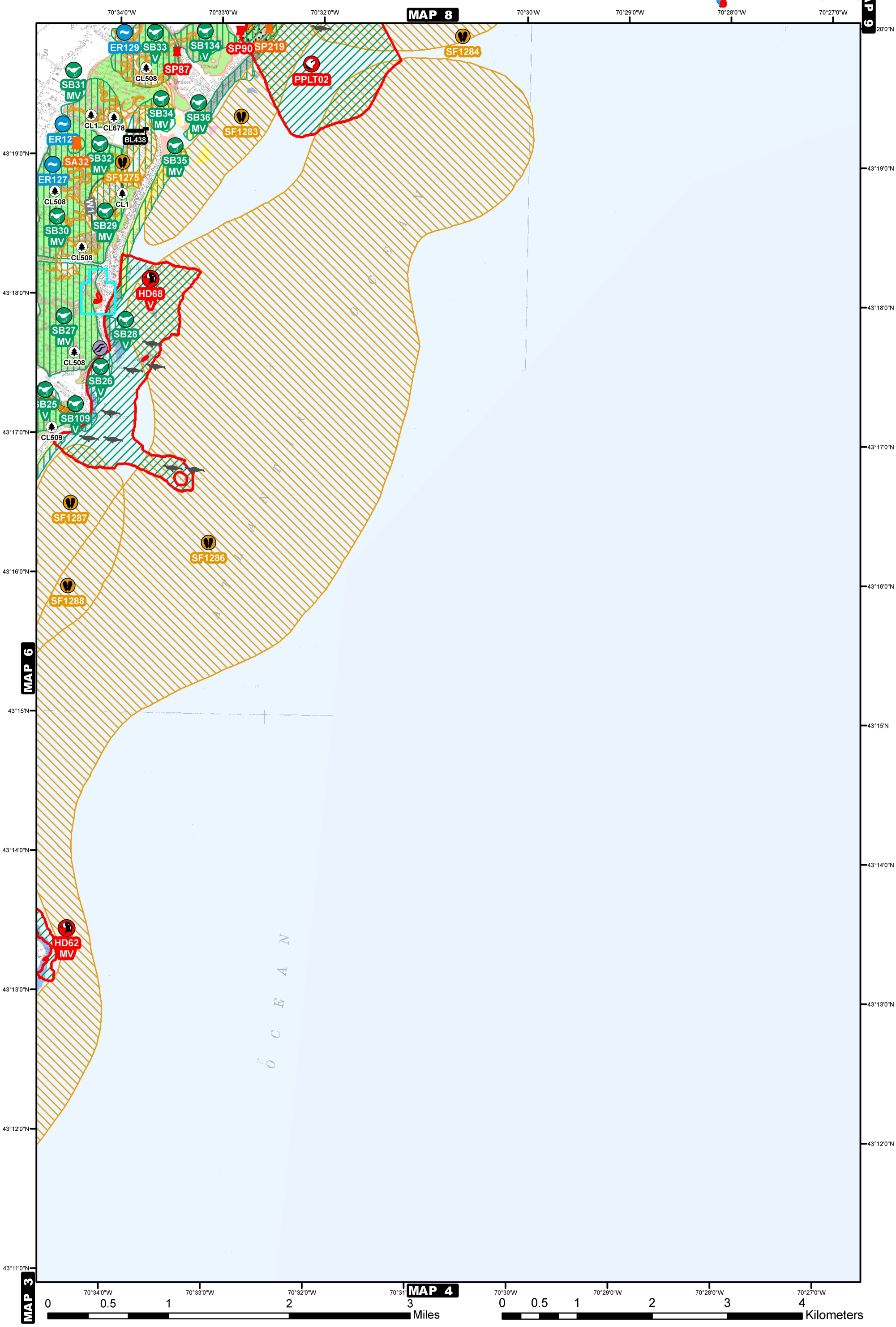

ENVIRONMENTAL SENSITIVITY MAP - 7

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-42-1 A-43-1 A-44-1 A-45-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD62	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD68	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
PPLT02	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
SA32	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA32	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SP159	Slender Blue Flag	*Iris prismatica*	T	
SP219	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP87	Slender Blue Flag	*Iris prismatica*	T	
SP90	Slender Blue Flag	*Iris prismatica*	T	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Unidentified Dowitcher	*Limnodromus spp.*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Pectoral Sandpiper	*Calidris melanotos*				U U	U C C	U U	Apr.- May		Jul.- Nov.		
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Red Knot	*Calidris canutus*					U U U	U			Jul.- Oct.		
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Western Sandpiper	*Calidris mauri*					U U U	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Purple Sandpiper	*Calidris maritima*				C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
W1	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
ER127	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER128	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER129	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
SF1274	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1275	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1283	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1284	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1286	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1287	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1288	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL337	LAUDHOLM FARM
CL508	RACHEL CARSON NWR-LOWER WELLS
CL509	RACHEL CARSON NWR-MOODY
CL678	WELLS SANCTUARY

BOAT LAUNCHES (BL)

(state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL438	WELLS	TR		Y	PART	Y

MAP 8

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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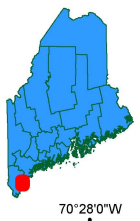

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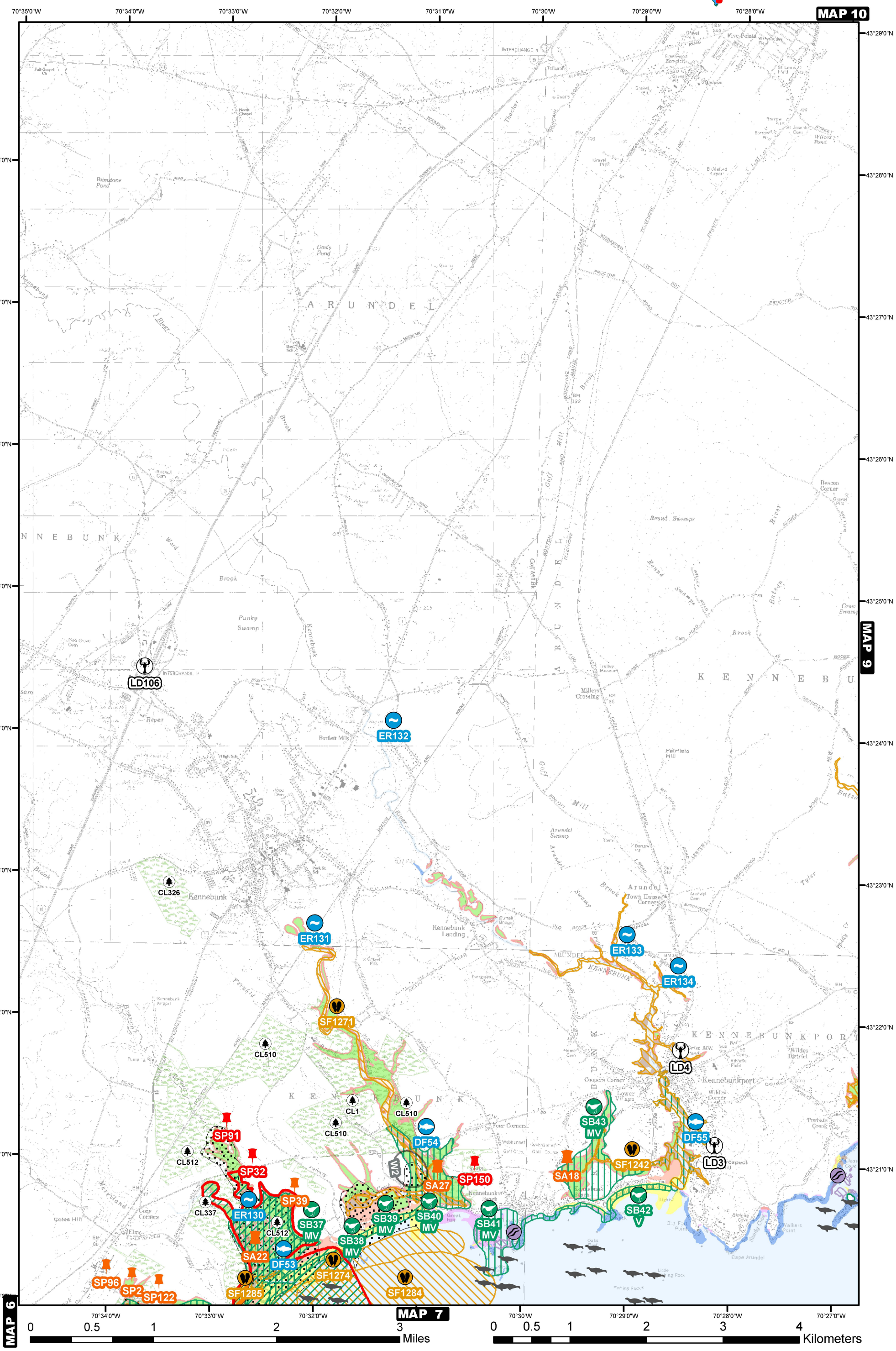

ENVIRONMENTAL SENSITIVITY MAP - 8

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-44-1 A-45-1 A-46-1 A-47-1 A-47-2

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
PPLT02	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
SA18	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA22	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA27	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA18	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA22	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA27	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SP122	Sassafras	*Sassafras albidum*	SC	
SP150	Slender Blue Flag	*Iris prismatica*	T	
SP2	Dwarf Glasswort	*Salicornia bigelovii*	SC	
SP219	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP32	Eastern Joe-pye Weed	*Eupatorium dubium*	T	
SP39	Smooth Winterberry Holly	*Ilex laevigata*	SC	
SP91	Slender Blue Flag	*Iris prismatica*	T	
SP96	Saltmarsh False-foxglove	*Agalinis maritima*	SC	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
81-102	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Unidentified Dowitcher	*Limnodromus spp.*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Western Sandpiper	*Calidris mauri*					U U U	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Purple Sandpiper	*Calidris maritima*				C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
W2	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
DF53	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
DF54	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
DF55	salmon atlantic	*Salmo salar*				R x x	x x x	x R	FW	FW	Apr-Jul	Apr.-Oct.
	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
ER130	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER131	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER132	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER133	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER134	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1241	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1242	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1271	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1273	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1274	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1275	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1283	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1284	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1285	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

ENVIRONMENTAL SENSITIVITY MAP - 8

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-44-1 A-45-1 A-46-1 A-47-1 A-47-2

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP)

LOBSTER DEALERS (LD)

HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD106	Cummings Lobster Co.	Billy Cummings	967-4568	
LD3	Port Lob. Co.	Sonny Hutchins	967-5411	
LD4	Cummings Lobster Co.	Billy Cummings	967-4568	

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL326	KENNEBUNK PLAINS
CL337	LAUDHOLM FARM
CL508	RACHEL CARSON NWR-LOWER WELLS
CL510	RACHEL CARSON NWR-MOUSAM R.
CL512	RACHEL CARSON NWR-UPPER WELLS

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

Coastal Barrier Resources System Area

MAP 9

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

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Not all resources in any specific area will be shown. Contact agencies directly for more information.
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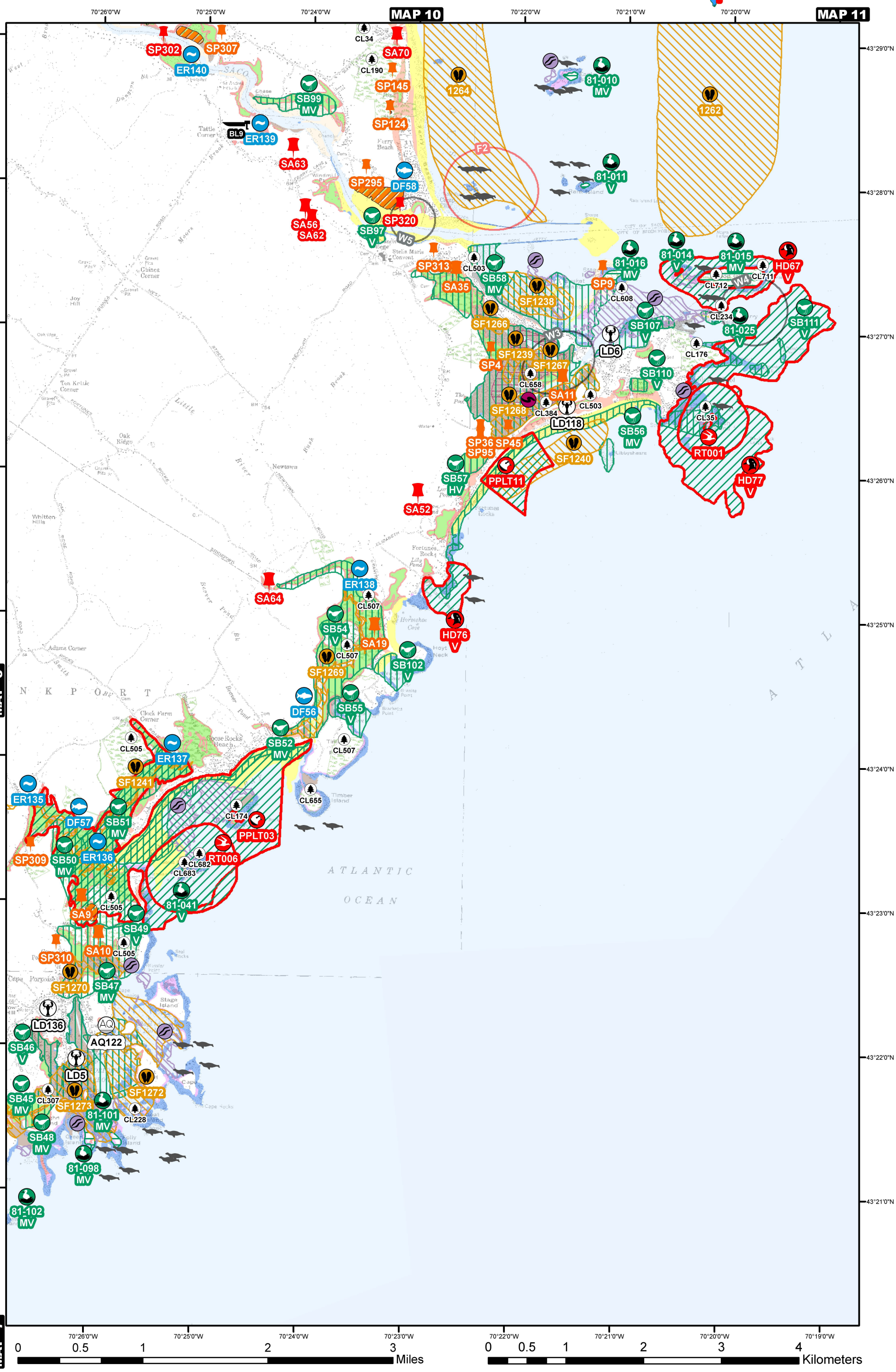

ENVIRONMENTAL SENSITIVITY MAP - 9

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-47-1 A-47-2 A-48-1 A-49-1 A-50-1 A-51-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD67	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD76	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD77	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
PPLT03	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
PPLT11	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
RT001	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
RT006	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
SA10	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA11	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA19	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA35	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA9	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA10	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC	
SA11	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC	
SA19	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC	
SA35	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC	
SA52	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA56	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA62	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA63	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA64	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA70	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SA9	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC	
SP113	Mudwort	*Limosella australis*	SC	
SP124	Sassafras	*Sassafras albidum*	SC	
SP145	Smooth Winterberry Holly	*Ilex laevigata*	SC	
SP295	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP302	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP307	Horned Pondweed	*Zannichellia palustris*	SC	
SP309	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP310	Rich's Sea-blite	*Suaeda maritima ssp. richii*	SC	
SP313	Dwarf Glasswort	*Salicornia bigelovii*	SC	
SP314	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP320	Beach Plum	*Prunus maritima*	E	
SP36	Hollow Joe-pye Weed	*Eupatorium fistulosum*	SC	
SP4	Rich's Sea-blite	*Suaeda maritima ssp. richii*	SC	
SP40	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP45	Rich's Sea-blite	*Suaeda maritima ssp. richii*	SC	
SP46	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP9	Sweet Pepper-bush	*Clethra alnifolia*	SC	
SP95	Saltmarsh False-foxglove	*Agalinis maritima*	SC	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
81-010	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-011	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
81-014	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-015	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-016	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-025	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Unidentified Gull	*Larus spp.*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-041	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
81-098	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-101	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Red Knot	*Calidris canutus*					U U U	U			Jul.- Oct.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Unidentified Dowitcher	*Limnodromus spp.*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Dunlin	*Calidris alpina*				U U	U C	C C	May - Jun.		Aug.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Hudsonian Godwit	*Limosa haemastica*					U U U	U			Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Long-billed Dowitcher	*Limnodromus scolopaceus*					U U U	U			Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Pectoral Sandpiper	*Calidris melanotos*				U U	U C C	U U	Apr.- May		Jul.- Nov.		
American Golden Plover	*Pluvialis dominica*					U U	U			Aug.- Oct.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Stilt Sandpiper	*Calidris himantopus*					U U U				Jul.- Sep.		
Western Sandpiper	*Calidris mauri*					U U U	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		

ENVIRONMENTAL SENSITIVITY MAP - 9

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-47-1 A-47-2 A-48-1 A-49-1 A-50-1 A-51-1

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F2	Unidentified Merganser	*Mergus spp.*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Nov.- Dec.	Dec.- Feb.	Jul.- Aug.
	Black Scoter	*Melanitta nigra*			C C C	C C U	U U C	C C C	Mar.- May		Aug.- Oct.	Nov.- Mar.	
W3	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Unidentified Goldeneye	*Bucephala spp.*			C C C	C C U	U U C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Oct.- Mar.	Jul.- Aug.
	Canada Goose	*Branta canadensis*			U U C	C C C	C C C	C C U	Apr.- May	Apr.- Jun.	Oct.- Nov.	Nov.- Mar.	Jun.- Jul
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W4	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W5	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Unidentified Goldeneye	*Bucephala spp.*			C C C	C C U	U U C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Oct.- Mar.	Jul.- Aug.
	Canada Goose	*Branta canadensis*			U U C	C C C	C C C	C C U	Apr.- May	Apr.- Jun.	Oct.- Nov.	Nov.- Mar.	Jun.- Jul

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE (FW=FRESHWATER R=RARE)	JUVENILE	ADULT
DF58	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER135	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER136	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER137	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER138	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER139	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER140	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE (FW=FRESHWATER R=RARE)	JUVENILE	ADULT
SF1238	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1239	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1240	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1241	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1262	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1264	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1266	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1267	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1268	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1269	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1270	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1272	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1273	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP)

LOBSTER DEALERS (LD)

HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD118	Day's Lobster Pound	Bill Day	282-0803	
LD136	Green's Lobster		967-1950	
LD5	Allen Daggett	Allen Daggett	967-5040	
LD6	Inness Lob. Co.	Peter Innes	284-5000	

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ122	soft clams	John White	207-967-4758	0.01AC

CONSERVATION LANDS (CL)

EVI NO	NAME
CL174	EAST GOOSE ROCKS
CL176	EAST POINT SANCTUARY
CL190	FERRY BEACH STATE PARK
CL228	GOAT ISLAND LIGHT
CL234	GOOSEBERRY ISLAND
CL307	ISLAND
CL34	BAY VIEW
CL35	BEACH ISLAND
CL384	M.B. SMITH SANCTUARY
CL503	RACHEL CARSON NWR-BIDDEFORD POOL
CL505	RACHEL CARSON NWR-GOOSE ROCKS
CL506	RACHEL CARSON NWR-GOOSEFARE BR.
CL507	RACHEL CARSON NWR-LITTLE RIVER
CL608	STAGE ISLAND SANCTUARY
CL655	TIMBER ISLAND
CL658	TOWN THATCH BED
CL682	WEST GOOSE ROCKS 1
CL683	WEST GOOSE ROCKS 2
CL711	WOOD ISLAND LIGHT
CL712	WOOD ISLAND SANCTUARY

BOAT LAUNCHES (BL)

(state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL9	DOC	TR	60	Y	ALL	Y

MAP 10

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
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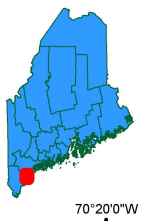

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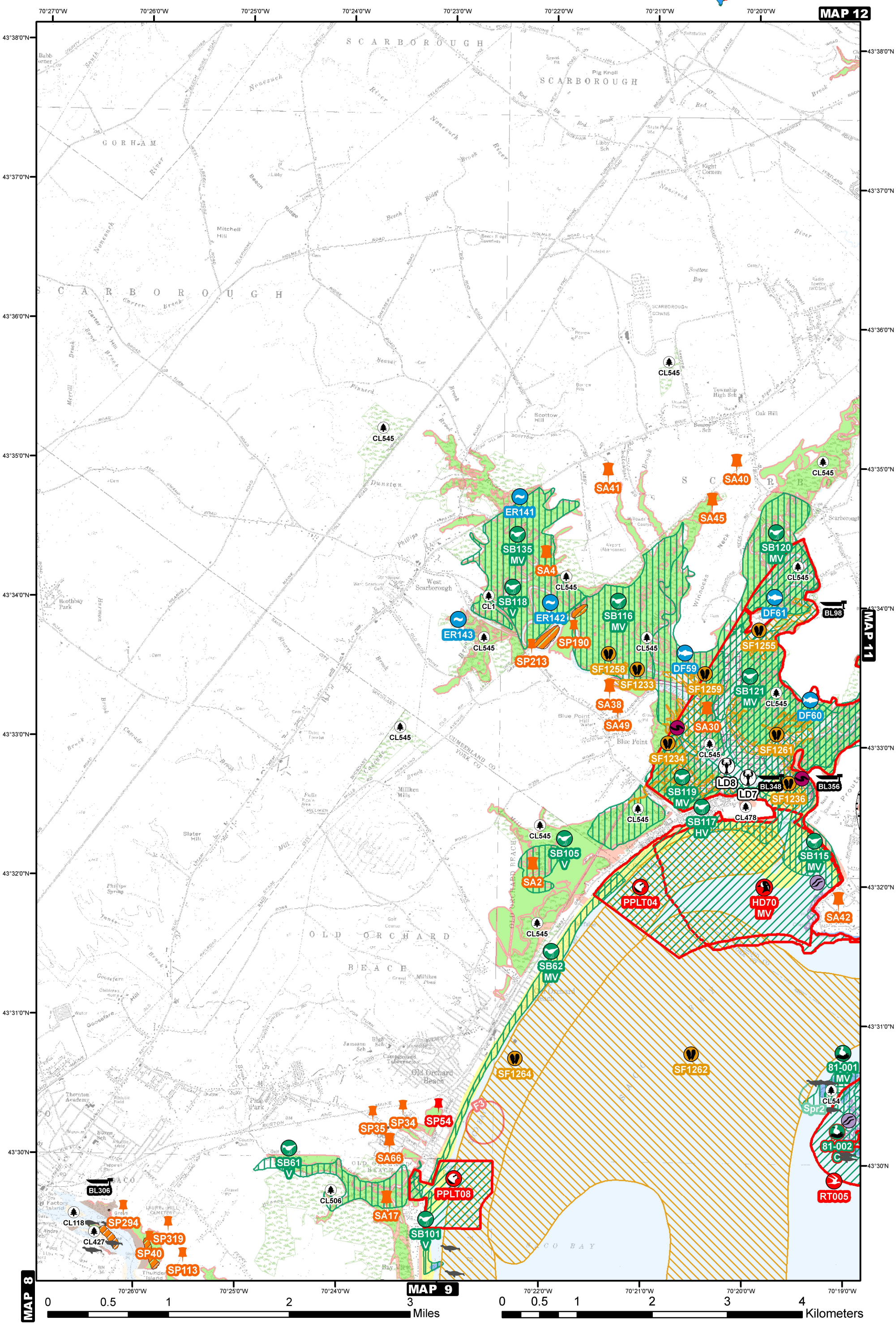


ENVIRONMENTAL SENSITIVITY MAP - 10

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-52-1 B-01-1 B-01-2 B-04-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD70	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
PPLT04	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
PPLT08	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
RT005	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
SA17	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA2	Least Bittern	*Ixobrychus exilis*	SC			U U U	U U U	U	Apr.- May	May - Aug.	Aug.-Oct.		
SA30	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA4	Least Bittern	*Ixobrychus exilis*	SC			U U U	U U U	U	Apr.- May	May - Aug.	Aug.-Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA17	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA2	Least Bittern	*Ixobrychus exilis*	SC	
SA30	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA38	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA4	Least Bittern	*Ixobrychus exilis*	SC	
SA40	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA41	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA42	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA45	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA49	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA66	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SP113	Mudwort	*Limosella australis*	SC	
SP190	Dwarf Glasswort	*Salicornia bigelovii*	SC	
SP213	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP294	Pygmyweed	*Crassula aquatica*	SC	
SP302	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP319	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP34	Hollow Joe-pye Weed	*Eupatorium fistulosum*	SC	
SP35	Hollow Joe-pye Weed	*Eupatorium fistulosum*	SC	
SP40	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP46	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP54	Creeping Spike-moss	*Selaginella apoda*	E	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
81-001	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-002	Arctic Tern	*Sterna paradisaea*	T			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Black-crowned Night Heron	*Nycticorax nycticorax*	SSC			U U C	C C U	U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.		
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Glossy Ibis	*Plegadis falcinellus*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Great Egret	*Ardea alba*			U U U	U U U	U U U	U U U	Apr.- May	May - Aug.	Sep.- Oct.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Little Blue Heron	*Hydranassa caerulea*				U U U	U U U	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
	Snowy Egret	*Egretta thula*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
American Oystercatcher	*Haematopus palliatus*				U U	U U U			May - Aug.			
Baird's Sandpiper	*Calidris bairdii*					U U		Mar.- May		Aug.- Sep.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Unidentified Dowitcher	*Limnodromus spp.*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Dunlin	*Calidris alpina*				U U	U C	C C	May - Jun.		Aug.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Hudsonian Godwit	*Limosa haemastica*					U U U	U			Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Long-billed Dowitcher	*Limnodromus scolopaceus*					U U U	U			Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
American Golden Plover	*Pluvialis dominica*					U U	U			Aug.- Oct.		
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Red Knot	*Calidris canutus*					U U U	U			Jul.- Oct.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Solitary Sandpiper	*Tringa solitaria*				C U	U C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Stilt Sandpiper	*Calidris himantopus*					U U U				Jul.- Sep.		
Western Sandpiper	*Calidris mauri*					U U U	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Pectoral Sandpiper	*Calidris melanotos*				U U	U C C	U U	Apr.- May		Jul.- Nov.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F3	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Common Loon	*Gavia immer*			C C C	C C C	C C C	C C C	Mar.- Jun.	Mar.- Aug.	Sep.- Dec.	Dec.- Mar.	Jan.- Mar.

ENVIRONMENTAL SENSITIVITY MAP - 10

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: A-52-1 B-01-1 B-01-2 B-04-1

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
	Black Scoter	*Melanitta nigra*			C C C	C C U	U U C	C C C	Mar.- May		Aug.- Oct.	Nov.- Mar.	
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
Spr2	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
DF59	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
DF60	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*				x x x	x x x	x x	FW	FW	Apr-Nov	Apr.-Nov.
DF61	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
ER141	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER142	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER143	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1233	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1234	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1236	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
SF1255	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1258	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1259	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1261	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1262	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1264	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD7	Bayley's Lob. Pd.	Bill Bayley	883-4571	
LD8	Pine Point Coop		883-3588	

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL118	COW ISLAND
CL427	MOUSE ISLAND
CL478	PINE POINT
CL506	RACHEL CARSON NWR-GOOSEFARE BR.
CL54	BLUFF ISLAND
CL545	SCARBOROUGH WMA
CL620	STRATTON ISLAND

BOAT LAUNCHES (BL)

(state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL306	DIFW	TR	10	Y	ALL	N
BL348	SCARBOROUGH	TR		Y	ALL	N
BL356	SCARBOROUGH	TR		Y	PART	N
BL98	DOC	TR	10	Y	PART	Y

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

Marshes (1)
Mud Flats, Sheltered (2)
Coarse Flats & Bars, Exposed (3)
Coarse Beaches & Riprap (4)
Mixed & Low Energy Beaches (5)
Sand Beaches (6)
Rocky Shores (7)
Sand Dunes (8)

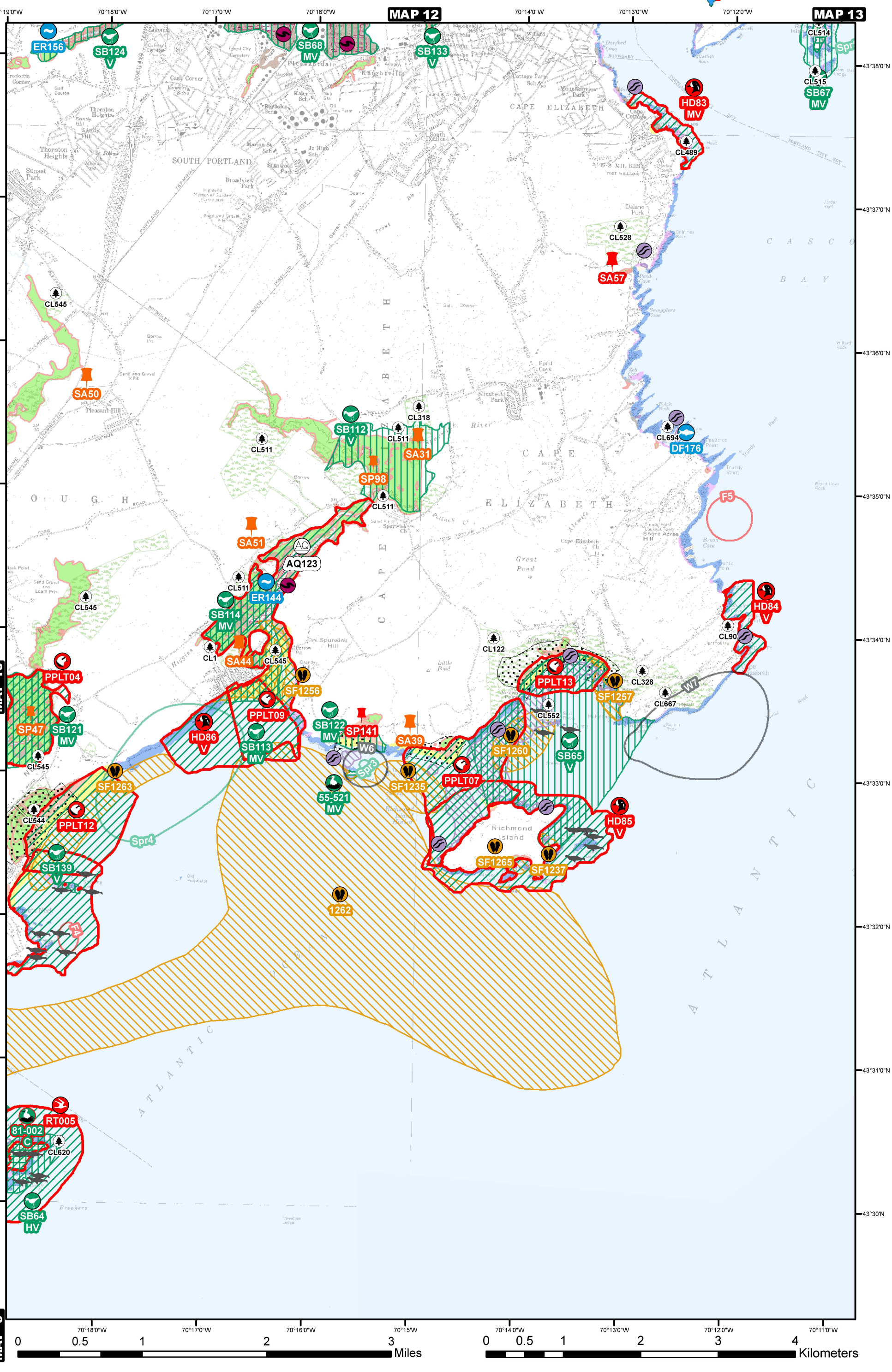
Coastal Barrier Resources System Area

MAP 11

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



ENVIRONMENTAL SENSITIVITY MAP - 11

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-01-1 B-01-2 B-02-1 B-03-1 B-04-1 B-05-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD70	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD83	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD84	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD85	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD86	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
PPLT04	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
PPLT07	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
PPLT09	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
PPLT12	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
PPLT13	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
RT005	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
SA31	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA31	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA39	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA44	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA50	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA51	New England Cottontail	*Sylvilagus transitionalis*	SC	
SA57	Rare Animal	*SEE IF&W BIOLOGIST or GIS*		
SP141	Beach Plum	*Prunus maritima*	E	
SP47	Smooth Winterberry Holly	*Ilex laevigata*	SC	
SP98	Saltmarsh False-foxglove	*Agalinis maritima*	SC	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
55-383	Black-crowned Night Heron	*Nycticorax nycticorax*	SSC			U U C	C C U	U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.		
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Glossy Ibis	*Plegadis falcinellus*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-521	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
81-002	Arctic Tern	*Sterna paradisaea*	T			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Black-crowned Night Heron	*Nycticorax nycticorax*	SSC			U U C	C C U	U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.		
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Glossy Ibis	*Plegadis falcinellus*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Great Egret	*Ardea alba*			U U U	U U U	U U U	U U U	Apr.- May	May - Aug.	Sep.- Oct.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Little Blue Heron	*Hydranassa caerulea*				U U U	U U U	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
	Snowy Egret	*Egretta thula*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Red Knot	*Calidris canutus*					U U U	U			Jul.- Oct.		
American Oystercatcher	*Haematopus palliatus*				U U	U U U			May - Aug.			
Baird's Sandpiper	*Calidris bairdii*					U U		Mar.- May		Aug.- Sep.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Hudsonian Godwit	*Limosa haemastica*					U U U	U			Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Long-billed Dowitcher	*Limnodromus scolopaceus*					U U U	U			Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Pectoral Sandpiper	*Calidris melanotos*				U U	U C C	U U	Apr.- May		Jul.- Nov.		
American Golden Plover	*Pluvialis dominica*					U U	U			Aug.- Oct.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Stilt Sandpiper	*Calidris himantopus*					U U U				Jul.- Sep.		
Upland Sandpiper	*Bartramia longicauda*	T			U U U	U U U		Apr.- May	May - Aug.	Aug.- Sep.		
Western Sandpiper	*Calidris mauri*					U U U	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F4	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
F5	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr3	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr4	Unidentified Scoter	*Melanitta spp.*			C C C	C C U	U U C	C C C	Mar.- May		Aug.- Oct.	Nov.- Mar.	
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Black Scoter	*Melanitta nigra*			C C C	C C U	U U C	C C C	Mar.- May		Aug.- Oct.	Nov.- Mar.	

ENVIRONMENTAL SENSITIVITY MAP - 11

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-01-1 B-01-2 B-02-1 B-03-1 B-04-1 B-05-1

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Spr5	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
W6	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W7	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
DF176	salmon atlantic	*Salmo salar*				R x x	x x x	x R	FW	FW	Apr-Jul	Apr.-Oct.
	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon atlantic	*Acipenser oxyrinchus*			x x x	x x x	x x x	x x x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
	bass striped	*Morone saxatilis*				R x	x x x	x R	FW	FW	May-Nov	May-Nov.
ER144	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER156	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
SF1235	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1237	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1256	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1257	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1260	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1262	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1263	clam surf / hen	*Spisula solidissima*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Sep.	Jan-Dec	Jan.-Dec.
SF1265	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ123	oysters	Phineas Sprague	NULL	0.01AC

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL122	CRESCENT BEACH STATE PARK
CL318	JORDAN FARM
CL328	KETTLE COVE STATE PARK
CL489	PORTLAND HEAD LIGHT
CL511	RACHEL CARSON NWR-SPURWINK R.
CL514	RAM ISLAND
CL515	RAM ISLAND LEDGE LIGHT
CL528	ROBINSON WOODS
CL544	SCARBOROUGH BEACH STATE PARK
CL545	SCARBOROUGH WMA
CL552	SEAL ROCKS
CL620	STRATTON ISLAND
CL667	TWO LIGHTS STATE PARK
CL694	WHALEBACK
CL90	CAPE ELIZABETH LIGHT

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

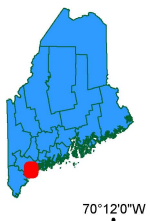
- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)
- Coastal Barrier Resources System Area

MAP 12

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



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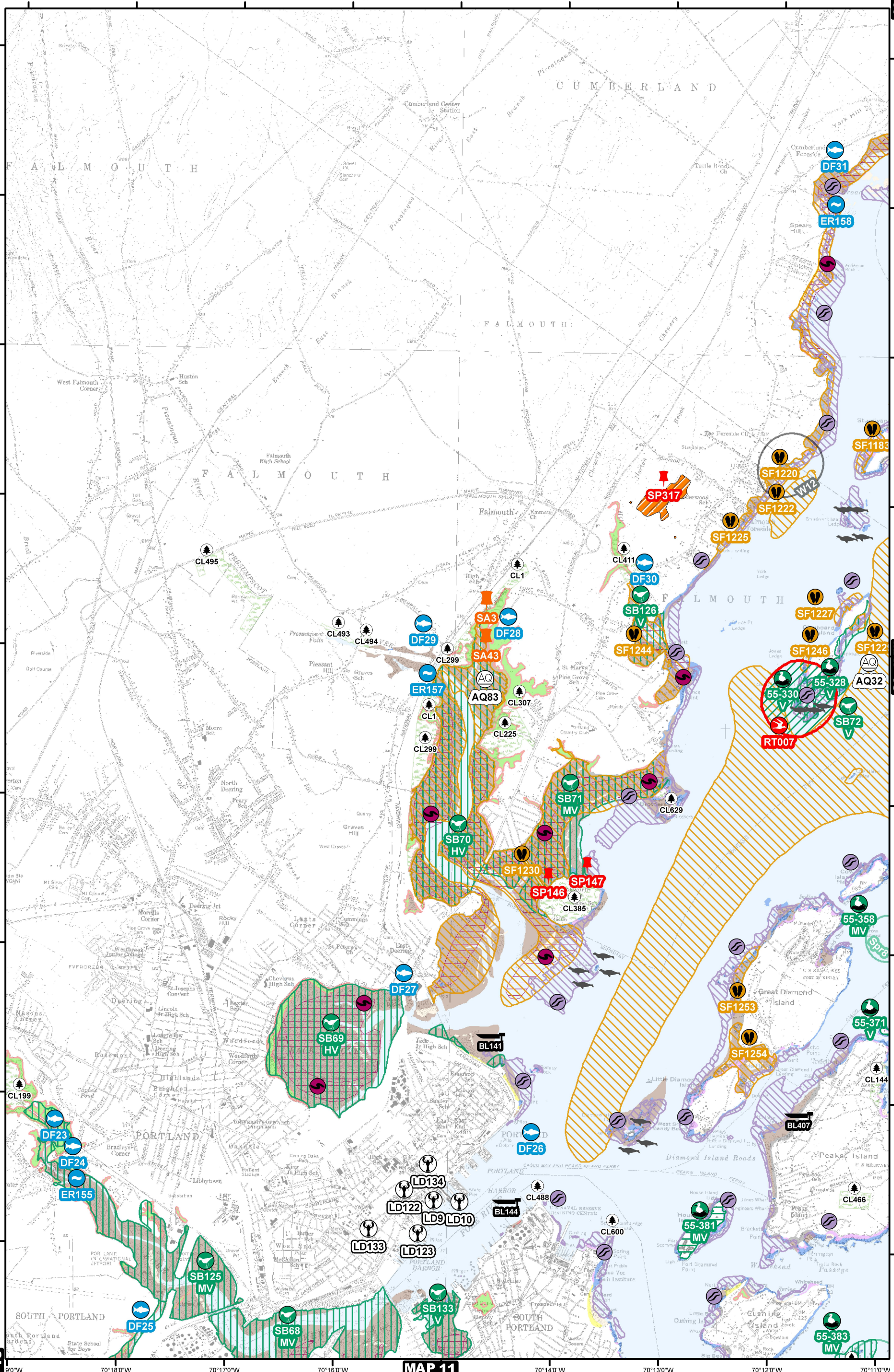
MAP 17



0 0.5 1 2 3 Miles

0 0.5 1 2 3 4 Kilometers

ENVIRONMENTAL SENSITIVITY MAP - 12

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-05-1 B-06-1 B-07-1 B-08-1 B-08-2 B-09-1 B-09-2

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
RT007	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
SA3	Least Bittern	*Ixobrychus exilis*	SC			U U U	U U U	U	Apr.- May	May - Aug.	Aug.-Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA3	Least Bittern	*Ixobrychus exilis*	SC	
SA43	New England Cottontail	*Sylvilagus transitionalis*	SC	
SP146	Columbia Water-meal	*Wolffia columbiana*	T	
SP147	Mountain Honeysuckle	*Lonicera dioica*	E	
SP317	Variable Sedge	*Carex polymorpha*	E	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
55-328	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-330	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
55-358	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-371	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-381	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-383	Black-crowned Night Heron	*Nycticorax nycticorax*	SSC			U U C	C C U	U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.		
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Glossy Ibis	*Plegadis falcinellus*				U C C	C C C	U	Apr.- May	May - Aug.	Sep.- Oct.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Dunlin	*Calidris alpina*				U U	U C	C C	May - Jun.		Aug.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Hudsonian Godwit	*Limosa haemastica*					U U U	U			Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
American Golden Plover	*Pluvialis dominica*					U U	U			Aug.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Solitary Sandpiper	*Tringa solitaria*				C U	U C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Spr5	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr8	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
W12	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Long-tailed Duck	*Clangula hyemalis*			C C C	C U	U	C C C	Mar.- Apr.		Sep.- Dec.	Sep.- Mar.	
	Canada Goose	*Branta canadensis*			U U C	C C C	C C C	C C U	Apr.- May	Apr.- Jun.	Oct.- Nov.	Nov.- Mar.	Jun.- Jul
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
DF23	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF24	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
DF25	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
DF26	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
DF27	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF28	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF29	salmon atlantic	*Salmo salar*				R x x	x x x	x R	FW	FW	Apr-Jul	Apr.-Oct.
	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
DF30	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF31	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
ER155	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER157	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER158	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
SF1134	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1167	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1183	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

ENVIRONMENTAL SENSITIVITY MAP - 12

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-05-1 B-06-1 B-07-1 B-08-1 B-08-2 B-09-1 B-09-2

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1220	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1222	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
SF1225	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1227	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1229	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1230	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1244	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1246	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1253	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1254	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD10	New Meadows Lob. Co.	Mr. McAlency	775-1612	
LD122	C.B.S. Lobster		775-2917	
LD123	Nancy's Seafood		774-3411	
LD133	Portland Lobster Pound	Chris Norbet	699-2400	
LD134	Harbor Fish	Nick Alfiero	775-0251	
LD9	Custom House Seafood	Craig Johnson	773-2778	

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ32	blue mussels	Tollef K. Olson	207-799-2022	1.66AC
AQ83	oysters	Eric Horne and Valy Steverylynck	207-865-9840	0.77AC

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL144	DAVEIS SANCTUARY, PEAKS ISLAND
CL199	FORE RIVER SANCTUARY
CL225	GILSLAND FARM SANCTUARY
CL299	I-95 SCENIC AREA
CL307	ISLAND
CL385	MACKWORTH ISLAND
CL411	MILL CREEK PRESERVE
CL466	PEAKS ISLAND
CL488	PORTLAND BREAKWATER LIGHT
CL493	PRESUMPSCOT FALLS
CL494	PRESUMPSCOT RIVER BRIDGE
CL495	PRESUMPSCOT RIVER PRESERVE
CL514	RAM ISLAND
CL600	SPRING POINT LEDGE LIGHT
CL629	THE BROTHERS

BOAT LAUNCHES (BL)

(state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL141	PORTLAND	TR		Y	PART	Y
BL144	SOUTH PORTLAND	TR	40	Y	ALL	Y
BL407	PORTLAND	TR		N	PART	

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

Marshes (1)
Mud Flats, Sheltered (2)
Coarse Flats & Bars, Exposed (3)
Coarse Beaches & Riprap (4)
Mixed & Low Energy Beaches (5)
Sand Beaches (6)
Rocky Shores (7)
Sand Dunes (8)

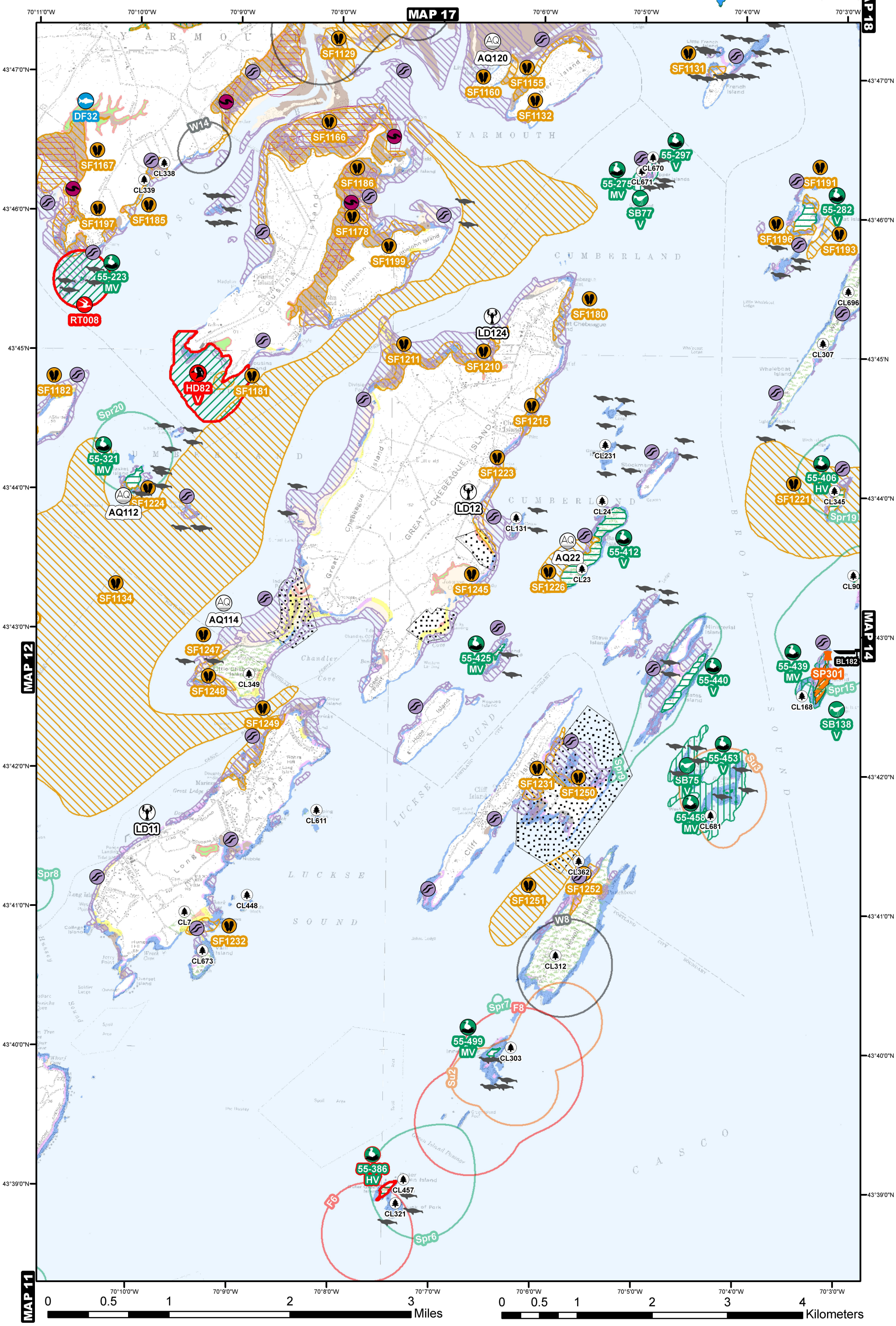
Coastal Barrier Resources System Area

MAP 13

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



ENVIRONMENTAL SENSITIVITY MAP - 13

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-09-1 B-09-2 B-10-1 B-10-2 B-11-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD82	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
RT008	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SP301	Wild Leek	*Allium tricoccum*	SC	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
55-223	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
55-275	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-282	Great Blue Heron	*Ardea herodias*			U U U	C C C	C C C	C U U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.	Nov.- Jan.	
55-297	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-321	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-371	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-386	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
55-406	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-412	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-415	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-425	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-439	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-440	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-453	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-458	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
55-499	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Solitary Sandpiper	*Tringa solitaria*				C U	U C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F6	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
F8	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Great Black-backed Gull	*Larus marinus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
Spr15	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr19	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr20	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr5	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr6	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Atlantic Brant	*Branta bernicla*			U C	C C U	U	U U U	Apr.- May		Sep.- Nov.		
Spr7	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr8	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr9	Unidentified Merganser	*Mergus spp.*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Nov.- Dec.	Dec.- Feb.	Jul.- Aug.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Su2	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Su3	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
W14	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W16	Bufflehead	*Bucephala albeola*			C C C	C U	U	C C C	Apr.- May		Sep.- Dec.	Nov.- Mar.	
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Unidentified Goldeneye	*Bucephala spp.*			C C C	C C U	U U C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Oct.- Mar.	Jul.- Aug.
W8	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Unidentified Goldeneye	*Bucephala spp.*			C C C	C C U	U U C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Oct.- Mar.	Jul.- Aug.
	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.

ENVIRONMENTAL SENSITIVITY MAP - 13

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-09-1 B-09-2 B-10-1 B-10-2 B-11-1

FISH: DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
DF32	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.

SHELLFISH SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1128	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
SF1129	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
SF1131	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1132	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1134	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1155	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1160	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1166	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1167	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1178	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1180	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1181	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1182	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1185	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1186	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1191	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1193	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1196	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1197	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1199	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1210	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1211	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1215	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1221	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1223	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1224	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1226	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
SF1231	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1232	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1245	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1247	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1248	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1249	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1250	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1251	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1252	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1282	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS: SEAL HAUL-OUTS EELGRASS BEDS MARINE WORM HABITAT

COUNTS COMBINE HARBOR AND GRAY SEAL

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD11	Casco Bay Lobster Co.		766-2353	
LD12	Custom House Seafood	Craig Johnson	773-2778	
LD124	Nancy's Seafood		774-3411	

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ112	blue mussels	Mark Green	207-766-2601	0.01AC
AQ114	blue mussels	Mark Green	207-766-2601	0.01AC
AQ120	oysters	Eric Horne and Valy Steverlynck	207-865-9840	0.01AC
AQ22	blue mussels	Tollef K. Olson	207-799-2022	2AC

CONSERVATION LANDS (CL)

EVI NO	NAME
CL131	CROW ISLAND
CL168	EAGLE ISLAND STATE HISTORIC SITE
CL23	BANGS ISLAND
CL231	GOOSE NEST
CL24	BANGS ISLAND LEDGE
CL303	INNER GREEN ISLAND
CL307	ISLAND
CL312	JEWELL ISLAND
CL321	JUNK OF PORK
CL338	LEDGE
CL339	LEDGES
CL345	LITTLE BIRCH ISLAND
CL349	LITTLE CHEBEAGUE ISLAND
CL362	LITTLE JEWELL ISLAND
CL448	OBED'S ROCK
CL457	OUTER GREEN ISLAND
CL611	STEPPING STONES
CL670	UPPER GREEN ISLANDS (NE)
CL671	UPPER GREEN ISLANDS (SW)
CL673	VAILL ISLAND
CL681	WEST BROWN COW
CL696	WHALEBOAT ISLAND
CL7	ANDREWS BEACH
CL900	MAINE COASTAL ISLANDS NWR

BOAT LAUNCHES (BL) (state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL182	DOC	LF		Y	ALL	Y

MAP 14

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
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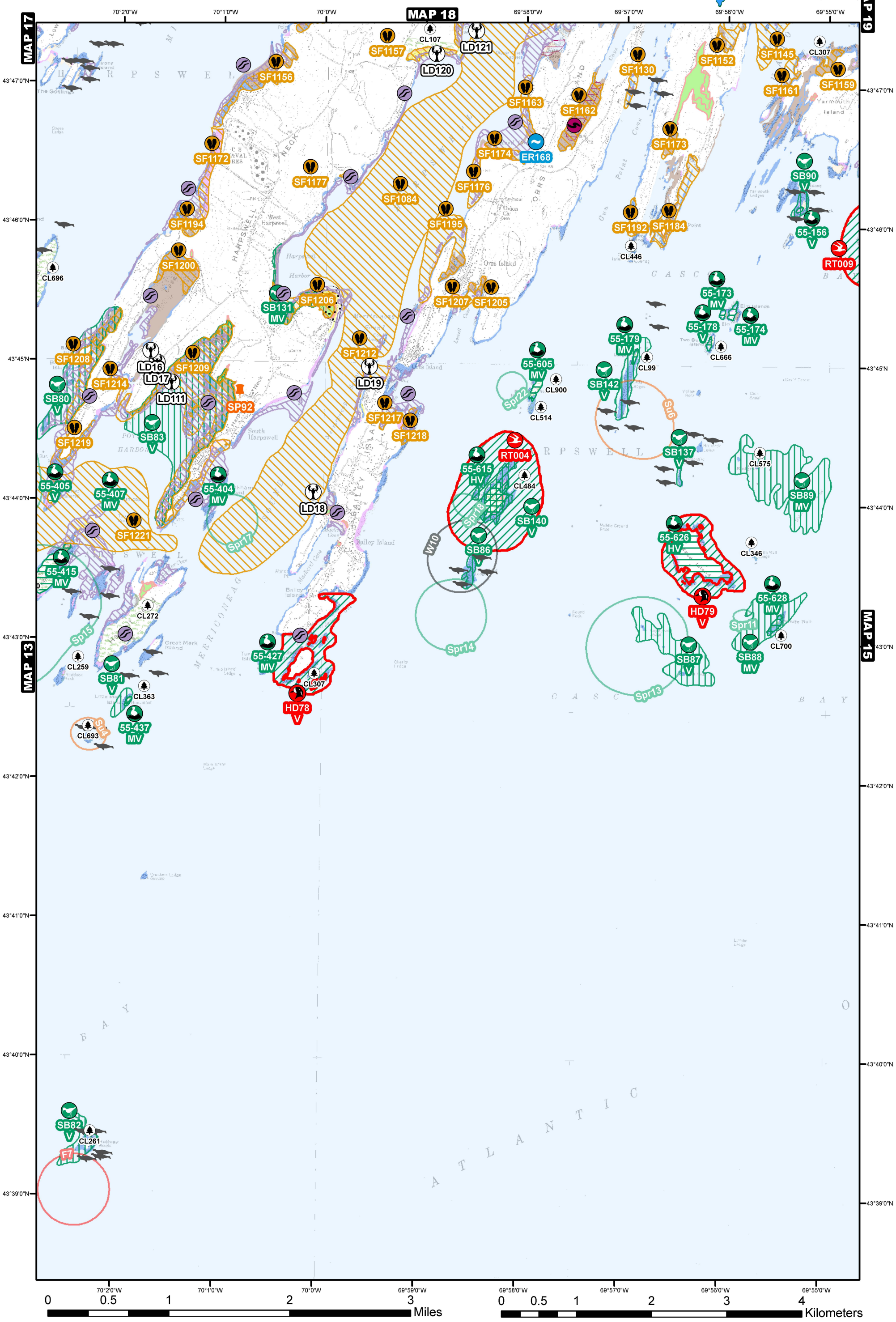


ENVIRONMENTAL SENSITIVITY MAP - 14

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-14-1 B-17-1 B-18-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
HD78	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD79	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
RT004	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
RT009	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SP92	Wild Leek	*Allium tricoccum*	SC	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
55-156	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-173	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-174	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-178	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-179	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-404	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-405	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-407	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-415	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-427	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-437	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-605	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-615	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-626	Black Guillemot	*Cepphus grylle*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-628	Black Guillemot	*Cepphus grylle*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Solitary Sandpiper	*Tringa solitaria*				C U	U C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F7	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr11	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr13	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Black Scoter	*Melanitta nigra*			C C C	C C U	U U C	C C C	Mar.- May		Aug.- Oct.	Nov.- Mar.	
Spr14	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr15	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr17	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr18	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr19	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr22	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Su4	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Su6	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
W10	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
ER168	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

ENVIRONMENTAL SENSITIVITY MAP - 14

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-14-1 B-17-1 B-18-1

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE (FW=FRESHWATER R=RARE)	JUVENILE	ADULT
SF1084	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1130	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1145	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1149	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1150	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1152	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1156	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1157	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1159	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1161	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1162	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1163	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1172	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1173	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1174	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1176	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1177	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1184	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1192	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1194	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1195	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1200	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1205	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1206	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1207	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1208	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1209	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1212	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1214	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1217	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1218	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1219	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1221	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD111	Toby's Lobster		833-5263	
LD120	Widden Lobster		833-2376	
LD121	Morse Lobster		833-5529	
LD16	Bibber Lobster Co.	Robert Bibber	833-5085	
LD17	Interstate Lob. Co.		833-5516	
LD18	Glen's Lobster Co.	Glen Johnson	833-2893	
LD19	Cook's Lobster	Curt Parent	833-6641	

CONSERVATION LANDS (CL)

EVI NO	NAME
CL107	CLARK COVE
CL195	FLASH ISLAND
CL259	HADDOCK ROCK
CL261	HALFWAY ROCK LIGHT
CL272	HASKELL ISLAND
CL307	ISLAND
CL346	LITTLE BULL LEDGE
CL363	LITTLE MARK ISLAND
CL446	OAK ISLAND
CL484	POND ISLAND
CL514	RAM ISLAND
CL575	SISTER ISLAND
CL666	TWO BUSH ISLAND
CL693	WHALE ROCK
CL696	WHALEBOAT ISLAND
CL700	WHITE BULL ISLAND
CL900	MAINE COASTAL ISLANDS NWR
CL99	CEDAR LEDGE

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

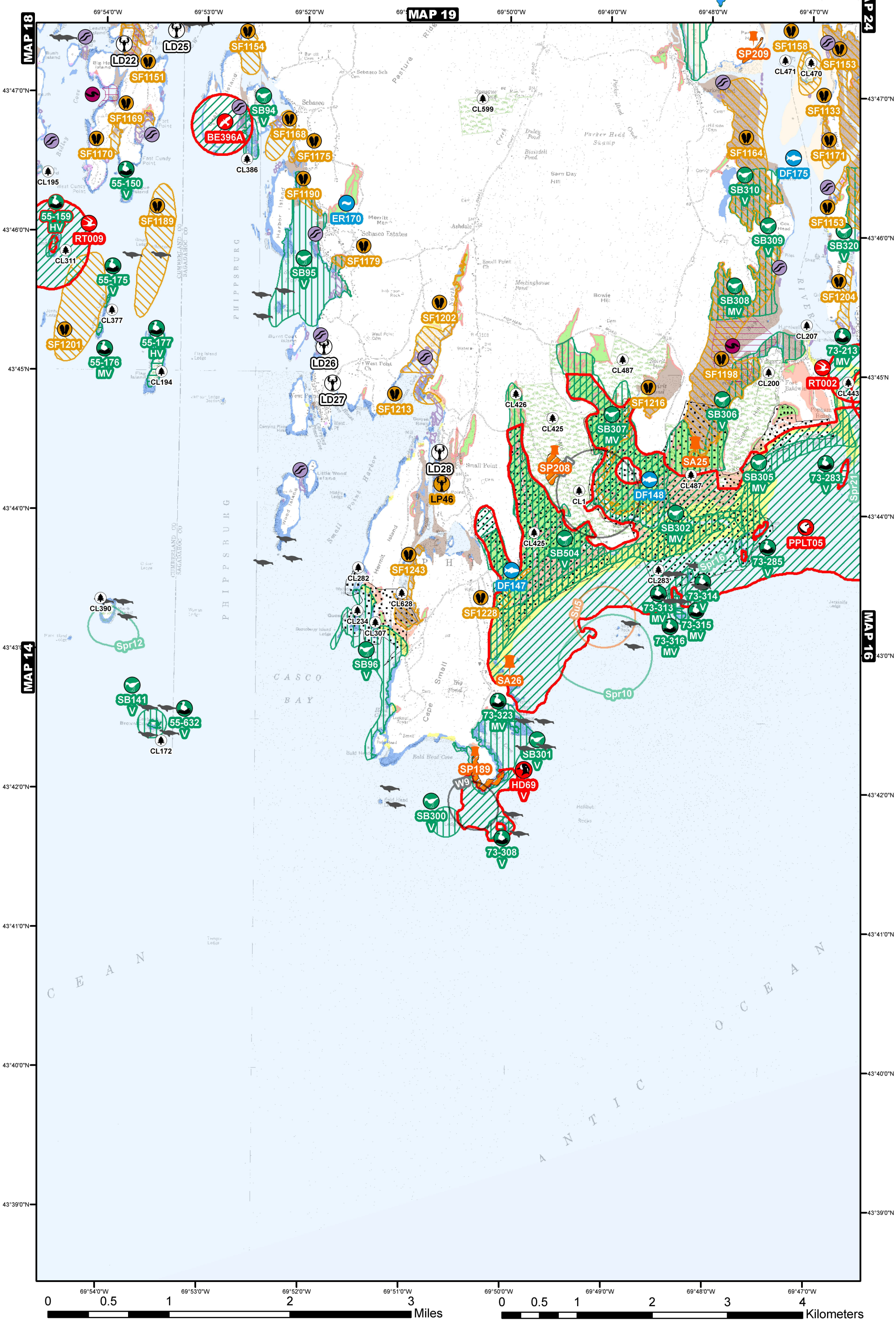
Coastal Barrier Resources System Area

MAP 15

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



ENVIRONMENTAL SENSITIVITY MAP - 15

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-25-1 B-26-1 B-27-1 B-27-2

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
BE396A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
HD69	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
PPLT05	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
RT002	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
RT003	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
RT009	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
SA25	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA26	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA25	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC	
SA26	Salt Marsh Sharp Tailed Sparrow	*Ammodramus caudacutus*	SC	
SP189	Smooth Sandwort	*Minuartia glabra*	SC	
SP208	Smooth Sandwort	*Minuartia glabra*	SC	
SP209	Smooth Sandwort	*Minuartia glabra*	SC	
SP215	Saltmarsh False-foxglove	*Agalinis maritima*	SC	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
55-150	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-159	Arctic Tern	*Sterna paradisaea*	T			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Laughing Gull	*Larus atricilla*	SSC			U U C	C C U	U	May	May - Aug.	Sep.- Oct.		
	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
55-175	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-176	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-177	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Great Blue Heron	*Ardea herodias*			U U U	C C C	C C C	C U U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.	Nov.- Jan.	
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
55-632	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
73-213	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
73-283	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
73-285	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
73-308	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
73-313	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
73-314	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
73-315	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
73-316	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
73-323	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Unidentified Dowitcher	*Limnodromus spp.*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
Baird's Sandpiper	*Calidris bairdii*					U U		Mar.- May		Aug.- Sep.		
Red Knot	*Calidris canutus*					U U U	U			Jul.- Oct.		
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Western Sandpiper	*Calidris mauri*					U U U	U			Jul.- Oct.		
Whimbrel	*Numenius phaeopus*	SSC				U U U				Jul.- Sep.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	

ENVIRONMENTAL SENSITIVITY MAP - 15

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-25-1 B-26-1 B-27-1 B-27-2

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J	F	M	A	M	J	J	A	S	O	N	D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Spr10	Unidentified Scoter	*Melanitta spp.*			C	C	C	C	C	U	U	U	C	C	C	C	Mar.- May		Aug.- Oct.	Nov.- Mar.	
	Unidentified Merganser	*Mergus spp.*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Nov.- Dec.	Dec.- Feb.	Jul.- Aug.
	Common Eider	*Somateria mollissima*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr12	Common Eider	*Somateria mollissima*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr16	Common Eider	*Somateria mollissima*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr21	Unidentified Scoter	*Melanitta spp.*			C	C	C	C	C	U	U	U	C	C	C	C	Mar.- May		Aug.- Oct.	Nov.- Mar.	
	Common Eider	*Somateria mollissima*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Su5	Common Eider	*Somateria mollissima*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
W11	Mallard	*Anas platyrhynchos*			U	U	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	American Black Duck	*Anas rubripes*			C	C	C	C	C	C	C	C	C	C	C	C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W9	Unidentified Merganser	*Mergus spp.*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Nov.- Dec.	Dec.- Feb.	Jul.- Aug.
	Common Eider	*Somateria mollissima*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAE	JUVENILE	ADULT
																		FW=FRESHWATER	R=RARE	
DF147	bass striped	*Morone saxatilis*							R	x	x	x	x	x	R		FW	FW	May-Nov	May-Nov.
	tomcod atlantic	*Microgadus tomcod*			x	x	x	x	x	x	x	x	x	x	x	x	Dec.-Mar.	Dec.-Jun.	Jan-Dec	Jan.-Dec.
DF148	bass striped	*Morone saxatilis*							R	x	x	x	x	x	R		FW	FW	May-Nov	May-Nov.
	tomcod atlantic	*Microgadus tomcod*			x	x	x	x	x	x	x	x	x	x	x	x	Dec.-Mar.	Dec.-Jun.	Jan-Dec	Jan.-Dec.
DF175	salmon atlantic	*Salmo salar*						R	x	x	x	x	x	x	R		FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x	x	x	x							x	x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*						x	x	x	x	x	x	x	x		FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*					R	R	x	x	x	x	x	x	R	x	FW	FW	May-Oct	May-Sep.
	bass striped	*Morone saxatilis*							R	x	x	x	x	x	R		FW	FW	May-Nov	May-Nov.
ER170	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAE	JUVENILE	ADULT
																		FW=FRESHWATER	R=RARE	
SF1133	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1151	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1153	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1154	scallop sea	*Placopecten magellanicus*			x	x	x	x	x	x	x	x	x	x	x	x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1158	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1164	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1168	scallop sea	*Placopecten magellanicus*			x	x	x	x	x	x	x	x	x	x	x	x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1169	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1170	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1171	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1175	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1179	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1189	scallop sea	*Placopecten magellanicus*			x	x	x	x	x	x	x	x	x	x	x	x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1190	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1198	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1201	scallop sea	*Placopecten magellanicus*			x	x	x	x	x	x	x	x	x	x	x	x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1202	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1204	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1213	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1216	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1228	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1243	clam soft	*Mya arenaria*			x	x	x	x	x	x	x	x	x	x	x	x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J	F	M	A	M	J	J	A	S	O	N	D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C	C	C	C	C	C	C	C	C	C	C	C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C	C	C	C	C	C	C	C	C	C	C	C		Jan.- Feb.

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD22	Ridley Cove Lob.	Peter Darling	721-9252	
LD25	Cundy's Harbor Whf.	Lester	725-2841	
LD26	Seahorse Seafoods	Douglas Wyman	389-2312	
LD27	Seaside Lob.& Fish		389-1819	
LD28	Small Pt. Fisheries			
LP46	Small Point Lobster Impou	Nick Sewell	442-7616	80000SF

CONSERVATION LANDS (CL)

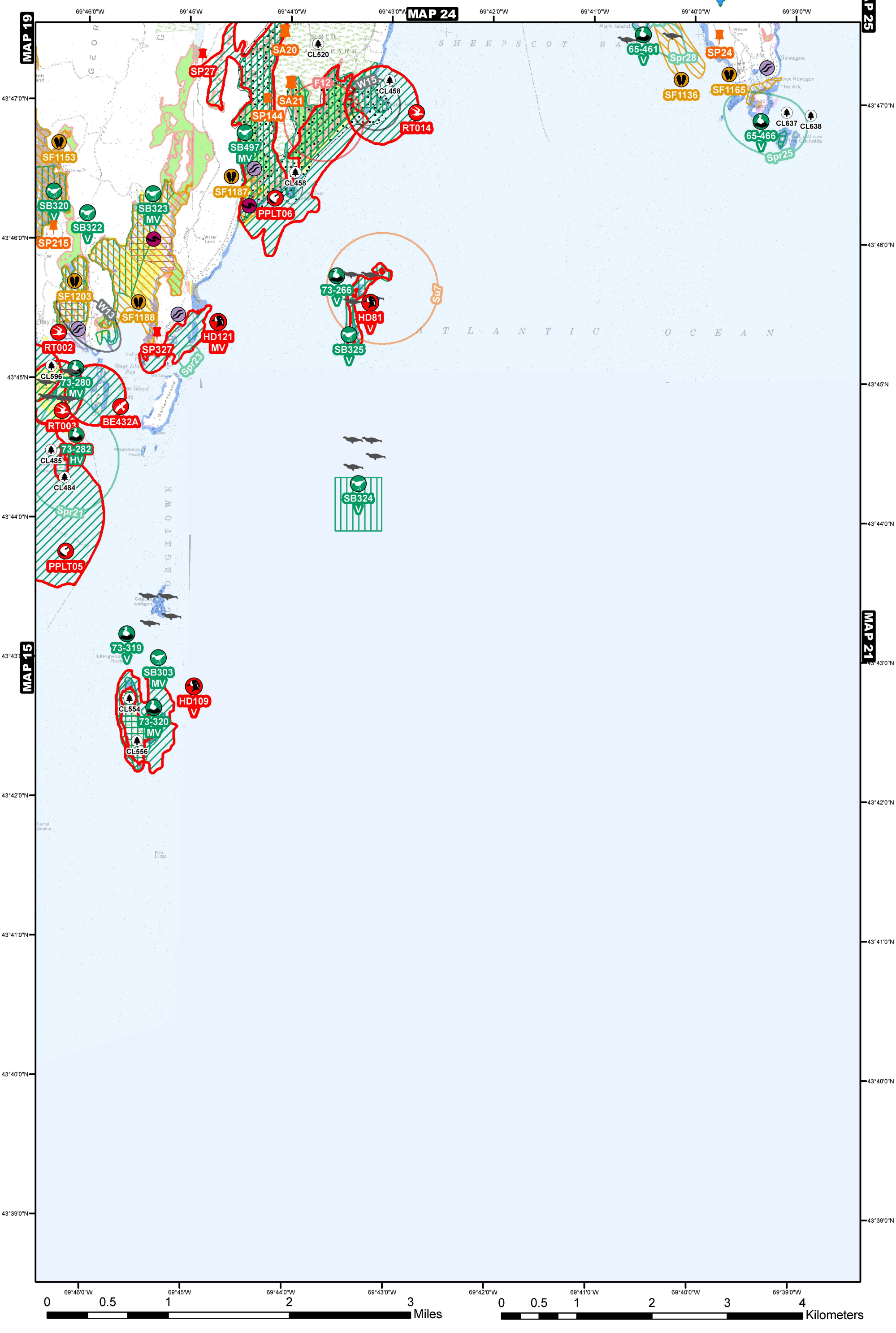
EVI NO	NAME
CL1	UNIDENTIFIED
CL172	EAST BROWN COW
CL194	FLAG ISLAND
CL195	FLASH ISLAND
CL200	FORT BALDWIN STATE HISTORIC SITE
CL207	FORT POPHAM STATE HISTORIC SITE
CL234	GOOSEBERRY ISLAND
CL282	HERMIT ISLAND LEDGE
CL283	HERON ISLAND
CL307	ISLAND
CL311	JENNY ISLAND
CL377	LONG LEDGE
CL386	MALAGA ISLAND LEDGE
CL390	MARK ISLAND
CL425	MORSE MOUNTAIN EASMENT
CL426	MORSE MOUNTAIN PRESERVE
CL443	NORTH SUGARLOAF ISLAND
CL470	PERKINS ISLAND
CL471	PERKINS ISLAND LIGHT
CL487	POPHAM BEACH STATE PARK
CL599	SPRAGUE POND
CL628	THE BRANCH

MAP 16

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



ENVIRONMENTAL SENSITIVITY MAP - 16

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-27-1 B-27-2 B-31-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
BE432A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
HD109	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD121	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
HD81	Harlequin Duck	*Histrionicus histrionicus*	T	FSC	C C C	C U		U C C	Mar.- May		Oct.- Dec.	Nov.- Mar.	
PPLT05	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
PPLT06	Least Tern	*Sterna antillarum*	E			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
RT002	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
RT003	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
RT014	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
SA20	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA21	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA20	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA21	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SP10	Sweet Pepper-bush	*Clethra alnifolia*	SC	
SP144	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP215	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP24	Mountain Sandwort	*Minuartia groenlandica*	SC	
SP27	Small Salt-marsh Aster	*Symphyotrichum subulatum*	E	
SP327	Clammy Azalea	*Rhododendron viscosum*	E	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
65-461	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
	Great Blue Heron	*Ardea herodias*			U U U	C C C	C C C	C U U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.	Nov.- Jan.	
65-466	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
73-266	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
73-280	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
73-282	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
	Roseate Tern	*Sterna dougallii*	E	E		C C	C C		May	May - Aug.			
73-319	Black Guillemot	*Cepphus grylle*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Double-crested Cormorant	*Phalacrocorax auritus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Oct.- Nov.		
73-320	Black Guillemot	*Cepphus grylle*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Sanderling	*Calidris alba*				U U	C C C	C U	May - Jun.		Jul.- Nov.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F12	Herring Gull	*Larus argentatus*			C C C	C C C	C C C	C C C		Apr.- Aug.		Sep.- Mar.	
	Great Blue Heron	*Ardea herodias*			U U U	C C C	C C C	C U U	Mar.- Apr.	Apr.- Aug.	Sep.- Oct.	Nov.- Jan.	
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
Spr21	Unidentified Scoter	*Melanitta spp.*			C C C	C C U	U U C	C C C	Mar.- May		Aug.- Oct.	Nov.- Mar.	
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr23	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr25	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Spr28	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
Su7	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
W13	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Unidentified Goldeneye	*Bucephala spp.*			C C C	C C U	U U C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Oct.- Mar.	Jul.- Aug.
	Canada Goose	*Branta canadensis*			U U C	C C C	C C C	C C U	Apr.- May	Apr.- Jun.	Oct.- Nov.	Nov.- Mar.	Jun.- Jul
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W15	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.

SHELLFISH

SHELLFISH BEDS (SF)

MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1136	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1153	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1165	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1187	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1188	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1203	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

ENVIRONMENTAL SENSITIVITY MAP - 16

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-27-1 B-27-2 B-31-1

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

CONSERVATION LANDS (CL)

EVI NO	NAME
CL320	JOSEPHINE NEWMAN SANCTUARY
CL458	OUTER HEAD
CL484	POND ISLAND
CL485	POND ISLAND LIGHT
CL520	REID STATE PARK
CL554	SEGUIN ISLAND
CL556	SEGUIN ISLAND LIGHT
CL596	SOUTH SUGARLOAF ISLAND
CL637	THE CUCKOLDS
CL638	THE CUCKOLDS LIGHT
CL900	MAINE COASTAL ISLANDS NWR

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

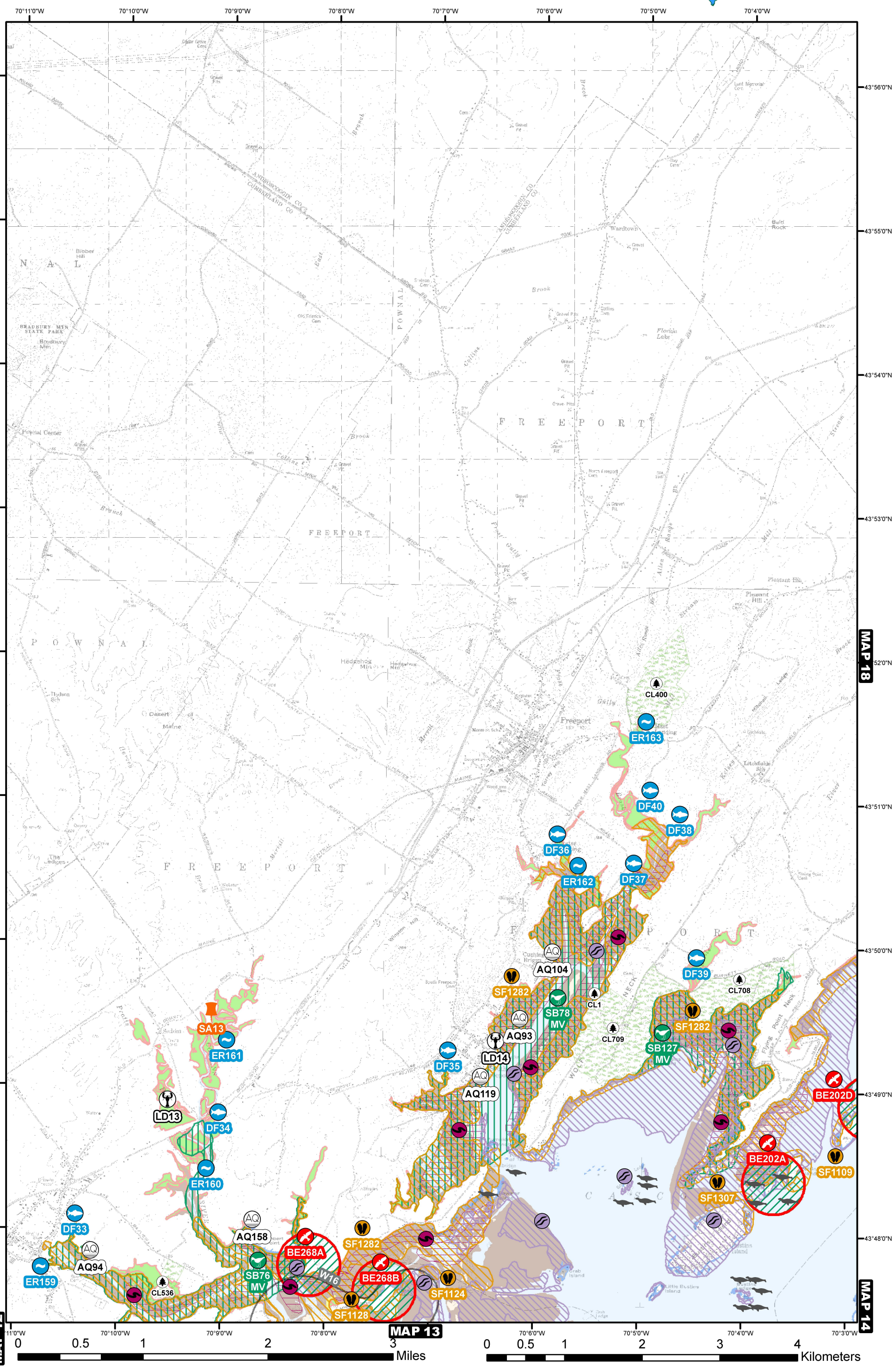
Coastal Barrier Resources System Area

MAP 17

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



ENVIRONMENTAL SENSITIVITY MAP - 17

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-11-1 B-12-1 B-12-2 B-12-3 B-13-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
BE202A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE202D	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE268A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE268B	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
SA13	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA13	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Solitary Sandpiper	*Tringa solitaria*				C U	U C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Pectoral Sandpiper	*Calidris melanotos*				U U	U C C	U U	Apr.- May		Jul.- Nov.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
W16	Unidentified Goldeneye	*Bucephala spp.*			C C C	C C U	U U C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Oct.- Mar.	Jul.- Aug.
	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Bufflehead	*Bucephala albeola*			C C C	C U	U	C C C	Apr.- May		Sep.- Dec.	Nov.- Mar.	

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
DF33	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x x x	x		x x	FW	FW	FW	May-Sep.
	trout brown	*Salmo trutta*						x x x	FW	FW	FW	Oct.-Feb.
	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
DF34	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	trout brook	*Salvelinus fontinalis*			x x x	x		x x	FW	FW	FW	May-Sep.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
DF35	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF36	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF37	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF38	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF39	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF40	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
ER159	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER160	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER161	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER162	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER163	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER	R=RARE	
SF1109	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1124	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1128	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
	blue mussel	*Mytilus edulis*			x x x	x x x	x x x	x x x	Jun.-Sep.	Jun.-Sep.	Jan-Dec	Jan.-Dec.
SF1282	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1307	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD13	Day's Crab Shop	Sandy	846-5871	
LD14	Harraseeket Lob. Co.	John Coffin	865-3535	

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ104	hard clams and oysters	Peter J. Horne	207-865-3095	0.01AC

ENVIRONMENTAL SENSITIVITY MAP - 17

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-11-1 B-12-1 B-12-2 B-12-3 B-13-1

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ119	oysters	Eric Horne and Valy Steverlynck	207-865-9840	0.01AC
AQ158	oysters	Eric Horne and Valy Steverlynck	207-865-9840	8.67AC
AQ93	oysters	Eric Horne and Valy Steverlynck	207-865-9840	0.01AC
AQ94	oysters	Eric Horne and Valy Steverlynck	207-865-9840	0.01AC

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL400	MAST LANDING SANCTUARY
CL536	ROYAL RIVER ESTUARY
CL708	WOLF NECK WOODS STATE PARK (E)
CL709	WOLFES NECK WOODS STATE PARK

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

Coastal Barrier Resources System Area

MAP 18

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
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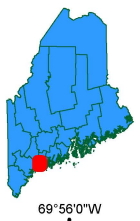

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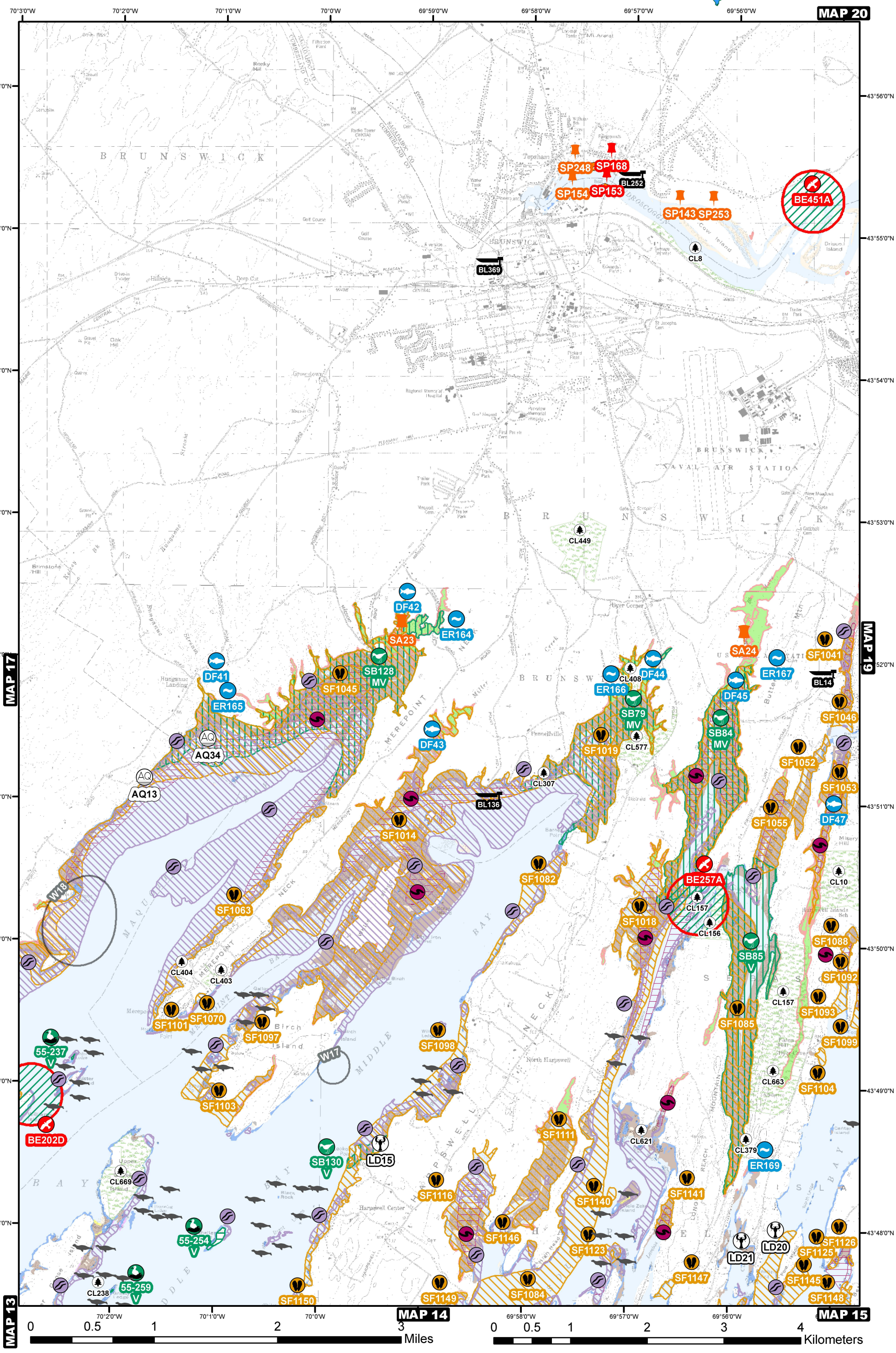


ENVIRONMENTAL SENSITIVITY MAP - 18

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-15-1 B-16-1 B-16-2 B-17-1 B-17-2 B-17-3 B-18-1 B-19-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
BE202D	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE257A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE451A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
SA23	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		
SA24	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA23	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA24	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SP143	Tidal Spikerush	*Eleocharis aestuum*	SC	
SP153	Dry Land Sedge	*Carex siccata*	T	
SP154	Narrow-leaf Arrowhead	*Sagittaria filiformis*	SC	
SP168	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP180	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP248	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP253	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP265	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP280	Parker's Pipewort	*Eriocaulon parkeri*	SC	

SEABIRD NESTING ISLANDS (00-000)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
55-237	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		
55-254	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
55-259	Common Eider	*Somateria mollissima*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Sep.- Oct.	Nov.- Mar.	Jul.- Sep.
	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Piping Plover	*Charadrius melodus*	E	T		U U U	U U U			Apr.- Aug	Aug.- Sep.		
Dunlin	*Calidris alpina*				U U	U C	C C	May - Jun.		Aug.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Hudsonian Godwit	*Limosa haemastica*					U U U	U			Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Solitary Sandpiper	*Tringa solitaria*				C U	U C C	U	May - Jun.		Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
W17	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W18	Unidentified Merganser	*Mergus spp.*			C C C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Nov.- Dec.	Dec.- Feb.	Jul.- Aug.
	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.

FISH:

DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
DF41	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF42	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF43	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF44	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF45	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF47	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
ER164	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER165	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER166	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER167	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER169	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
SF1014	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1018	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1019	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1041	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1045	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1046	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1052	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1053	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1055	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1063	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1070	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1082	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

ENVIRONMENTAL SENSITIVITY MAP - 18

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-15-1 B-16-1 B-16-2 B-17-1 B-17-2 B-17-3 B-18-1 B-19-1

SHELLFISH

SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE (FW=FRESHWATER R=RARE)	JUVENILE	ADULT
SF1084	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1085	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1088	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1092	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1093	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1097	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1098	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1099	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1101	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1103	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1104	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1109	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1111	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1116	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1123	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1125	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1126	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1140	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1141	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1145	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1146	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1147	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1148	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1149	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1150	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1152	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1282	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS:

SEAL HAUL-OUTS
COUNTS COMBINE HARBOR AND GRAY SEAL

EELGRASS BEDS

MARINE WORM HABITAT

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

LOBSTER POUNDS (LP)

LOBSTER DEALERS (LD)

HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD15	Allen's Lobster Co.	Daine Allen	833-2828	
LD20	Webber & Son	Allen Webber	725-5720	
LD21	Quahog Lob.Coop	Bob Waddle	725-6222	

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ13	oysters	Peter J. Horne	207-865-3095	5AC
AQ34	oysters	c/o Peter J. Horne	207-865-3095	5AC

CONSERVATION LANDS (CL)

EVI NO	NAME
CL10	AUSTIN CARY TREE FARM
CL156	DOUGHTY POINT
CL157	DOUGHTY POINT, ISLAND
CL238	GRASSY LEDGE
CL307	ISLAND
CL379	LONG REACH
CL403	MERE POINT
CL404	MERE POINT STATE HISTORIC SITE
CL408	MIDDLE BAY
CL449	OCEAN TRAIL
CL577	SKOLFIELD FARM
CL621	STRAWBERRY ISLAND
CL663	TRUFANT-SUMMERTON FOREST
CL669	UPPER GOOSE ISLAND PRESERVE
CL8	ANDROSCOGGIN RIVER SCENIC AREA

BOAT LAUNCHES (BL)

(state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL136	BRUNSWICK	TR		N	PART	N
BL14	DOC	TR	5	N	PART	N
BL252	BRUNSWICK	TR	13	N	ALL	N
BL369	BRUNSWICK	CI		Y	FRESH WATER	N

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

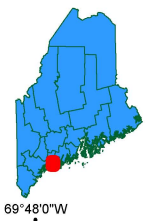
Coastal Barrier Resources System Area

MAP 19

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



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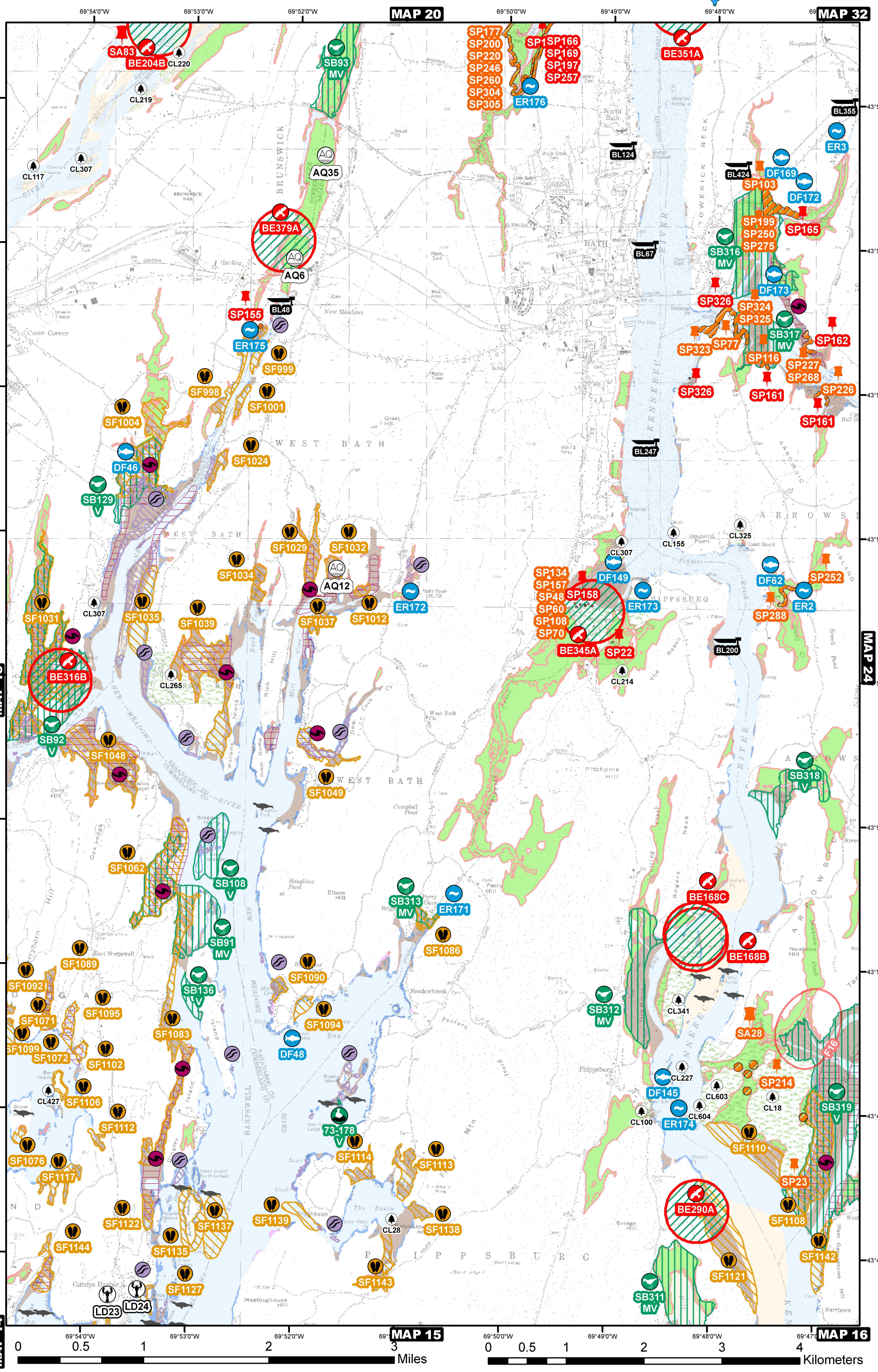


ENVIRONMENTAL SENSITIVITY MAP - 19

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-19-1, B-20-1, B-21-1, B-22-1, B-23-1, B-24-1, B-27-2, B-27-3, B-28-1, B-28-2, B-29-1, B-30-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

MONTHS PRESENT — C= COMMON U=UNCOMMON

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
BE168B	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE168C	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE204B	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE290A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE316B	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE345A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE351A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE379A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
SA28	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC			U C	C C C	U	Apr.- May	May - Aug.	Jul.- Oct.		

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA28	Salt Marsh Sharp Tailed Sparrow	*Ammodramus cauducutus*	SC	
SA83	Tidewater Mucket	*Leptodea ochracea*	T	
SP103	Mudwort	*Limosella australis*	SC	
SP108	Mudwort	*Limosella australis*	SC	
SP116	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP134	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP155	Mountain Honeysuckle	*Lonicera dioica*	E	
SP157	Mudwort	*Limosella australis*	SC	
SP158	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP161	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP162	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP165	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP166	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP169	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP177	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP197	Long's Bitter-cress	*Cardamine longii*	T	
SP199	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP200	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP214	Saltmarsh False-foxglove	*Agalinis maritima*	SC	
SP22	Long's Bitter-cress	*Cardamine longii*	T	
SP220	Mudwort	*Limosella australis*	SC	
SP226	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP227	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP23	Smooth Sandwort	*Minuartia glabra*	SC	
SP246	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP250	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP252	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP257	Stiff Arrow-head	*Sagittaria rigida*	T	
SP260	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP268	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP275	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP288	Horned Pondweed	*Zannichellia palustris*	SC	
SP304	Pygmyweed	*Crassula aquatica*	SC	
SP305	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP323	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP324	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP325	Horned Pondweed	*Zannichellia palustris*	SC	
SP326	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP48	Horned Pondweed	*Zannichellia palustris*	SC	
SP60	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP70	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP77	Marsh Bulrush	*Bolboschoenus x novae-angliae*	SC	

MARINE SPECIES / ATLANTIC SALMON (where endangered)

MONTHS PRESENT — C=COMMON U=UNCOMMON R=RARE X=PRESENT

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J F M	A M J	J A S	O N D	SPAWNING	EGGS	LARVAE	JUVENILES	ADULT
SA83	Tidewater Mucket	*Leptodea ochracea*	T		U U U	U U U	U U U	U U U	Jul.- Sep.		Sep.- Aug.		

SEABIRD NESTING ISLANDS (00-000)

MONTHS PRESENT — C= COMMON U=UNCOMMON

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
73-178	Common Tern	*Sterna hirundo*	SSC			C C	C C U		May	May - Aug.	Aug.- Sep.		

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

MONTHS PRESENT — C= COMMON U=UNCOMMON

COMMON NAME	SCIENTIFIC NAME	ST	FED	J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Unidentified Yellowlegs	*Tringa spp.*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
White-rumped Sandpiper	*Calidris fuscicollis*					U U U	U			Jul.- Oct.		
Willet	*Catoptrophorus semipalmatus*				U C C	C C C		Apr.- May	May - Aug.	Aug.- Sep.		
Spotted Sandpiper	*Actitis macularia*				U C C	C C C	U			Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*				C C	C C C	U	May - Jun.		Jul.- Oct.		
Short-billed Dowitcher	*Limnodromus griseus*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Ruddy Turnstone	*Arenaria interpres*				U C C	C C C	U U	Apr.- Jun.		Jul.- Nov.		
Purple Sandpiper	*Calidris maritima*			C C C	C U		U C C	Apr.- May		Oct.- Nov.	Nov.- Apr.	
Unidentified Sandpiper	*Calidris spp.*				U C C	C C C	U U	May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*				U	C C C	U	May		Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*				C U	C C C	U	May - Jun.		Jul.- Oct.		
Killdeer	*Charadrius vociferus*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*				C C U	U C C	C U	Apr.- Jun.		Jul.- Nov.		
Black-bellied Plover	*Pluvialis squatarola*				C C	U C C	C U	May - Jun.		Jul.- Nov.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

MONTHS PRESENT — C= COMMON U=UNCOMMON

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F16	Mallard	*Anas platyrhynchos*			U U C	C C C	C C C	C C C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Am. Green-winged Teal	*Anas crecca*			U	C C C	C C C	C U	Mar.- Apr.	Apr.- Jul.	Oct.- Nov.		Jun.- Jul.
	American Black Duck	*Anas rubripes*			C C C	C C C	C C C	C C C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.

ENVIRONMENTAL SENSITIVITY MAP - 19

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-19-1 B-20-1 B-21-1 B-22-1 B-23-1 B-24-1 B-27-2 B-27-3 B-28-1 B-28-2 B-29-1 B-30-1

FISH: DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
DF46	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF48	trout brown	*Salmo trutta*						x x x	FW	FW	FW	Oct.-Feb.
	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
DF62	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
DF145	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
DF146	salmon atlantic	*Salmo salar*				R x x	x x x	x R	FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x x x	x		x x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x x x	x x x	x x x	x x x	FW	FW	Jan-Dec	Jan.-Dec.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	sturgeon atlantic	*Acipenser oxyrinchus*			x x x	x x x	x x x	x x x	FW	FW	Apr-Nov	Apr.-Nov.
	blueback herring	*Alosa aestivalis*				x x x	x x x	x x	FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
	bass striped	*Morone saxatilis*				R x	x x x	x R	FW	FW	May-Nov	May-Nov.
DF149	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
DF169	salmon atlantic	*Salmo salar*				R x x	x x x	x R	FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x x x	x		x x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x x x	x x x	x x x	x x x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x x x	x x x	x x x	x x x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*				x x x	x x x	x x	FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
DF172	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF173	salmon atlantic	*Salmo salar*				R x x	x x x	x R	FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x x x	x		x x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x x x	x x x	x x x	x x x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x x x	x x x	x x x	x x x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x x x	x x x	x x x	x x x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R R R	x x x	x x x	x R R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*				x x x	x x x	x x	FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*			R	R x x	x x x	x R x	FW	FW	May-Oct	May-Sep.
ER2	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER3	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER171	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER172	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER173	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER174	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER175	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER176	eel american	*Anguilla rostrata*			x x x	x x x	x x x	x x x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

SHELLFISH SHELLFISH BEDS (SF) MUSSEL SEED CONSERVATION AREAS (MS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J F M	A M J	J A S	O N D	SPAWNING	LARVAE	JUVENILE	ADULT
										FW=FRESHWATER R=RARE		
SF1001	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1004	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1012	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1024	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1029	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1031	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1032	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1034	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1035	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1037	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1039	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1048	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1049	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1062	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1071	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1072	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1076	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1083	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1086	clam ocean quahog	*Arctica islandica*			x x x	x x x	x x x	x x x	Jul.-Sep.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1088	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1089	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1090	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1092	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1094	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1095	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1099	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1102	clam northern quahog / hard	*Mercenaria mercenaria*			x x x	x x x	x x x	x x x	Jun.-Aug.	Jun.-Aug.	Jan-Dec	Jan.-Dec.
SF1106	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1108	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1110	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1112	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1113	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1114	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1117	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1121	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1122	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1127	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1135	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1137	scallop sea	*Placopecten magellanicus*			x x x	x x x	x x x	x x x	Jul.-Oct.	Jul.-Nov.	Jan-Dec	Jan.-Dec.
SF1138	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1139	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1142	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1143	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1144	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF1151	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF998	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.
SF999	clam soft	*Mya arenaria*			x x x	x x x	x x x	x x x	May-Sep.	May-Oct.	Jan.-Dec.	Jan.-Dec.

HABITATS: SEAL HAUL-OUTS EELGRASS BEDS MARINE WORM HABITAT

COUNTS COMBINE HARBOR AND GRAY SEAL

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C C C	C C C	C C C	C C C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C C C	C C C	C C C	C C C		Jan.- Feb.

ENVIRONMENTAL SENSITIVITY MAP - 19

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-19-1 B-20-1 B-21-1 B-22-1 B-23-1 B-24-1 B-27-2 B-27-3 B-28-1 B-28-2 B-29-1 B-30-1

LOBSTER POUNDS (LP) LOBSTER DEALERS (LD) HERRING WEIR SITES (HW)

EVI NO	NAME	CONTACT / ADDRESS	PHONE	SIZE
LD23	Ken's Lobster	Ken Toothaker	725-7269	
LD24	Watson's Lobster Co.	Sid Watson	725-7794	

AQUACULTURE SITES (AQ)

EVI NO	PRIMARY SPECIES	CONTACT / ADDRESS	PHONE	SIZE
AQ12	oysters	Peter J. Horne	207-865-3095	13.49AC
AQ35	oysters	Andrew Johnson	207-832-6819	2.06AC
AQ6	oysters	Richard Clime	207-563-8168	0.37AC

CONSERVATION LANDS (CL)

EVI NO	NAME
CL10	AUSTIN CARY TREE FARM
CL100	CENTER POND
CL117	CORNISH ISLAND
CL15	BACK RIVER
CL155	DOUBLING POINT LIGHT
CL18	BALD HEAD PRESERVE
CL214	FRED MORSE WMA
CL218	FREYEE ISLAND, NORTH
CL219	FREYEE ISLANDS
CL220	FREYEE ISLANDS, EAST CENTER
CL227	GOAT ISLAND
CL265	HAMILTON SANCTUARY
CL28	BASIN ISLAND
CL307	ISLAND
CL325	KENNEBEC RIVER LIGHT
CL341	LEE ISLAND
CL383	LYONS PROPERTY
CL427	MOUSE ISLAND
CL603	SQUIRREL POINT
CL604	SQUIRREL POINT LIGHT

BOAT LAUNCHES (BL) (state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL124	BATH	TR	24	Y	ALL	Y
BL200	DOC	TR	30	Y	ALL	Y
BL247	BATH	TR	47	Y	ALL	Y
BL424	WOOLWICH	CI		N	PART	N
BL48	BRUNSWICK	TR	25	Y	ALL	Y
BL67	BATH	LF		Y	ALL	Y

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)

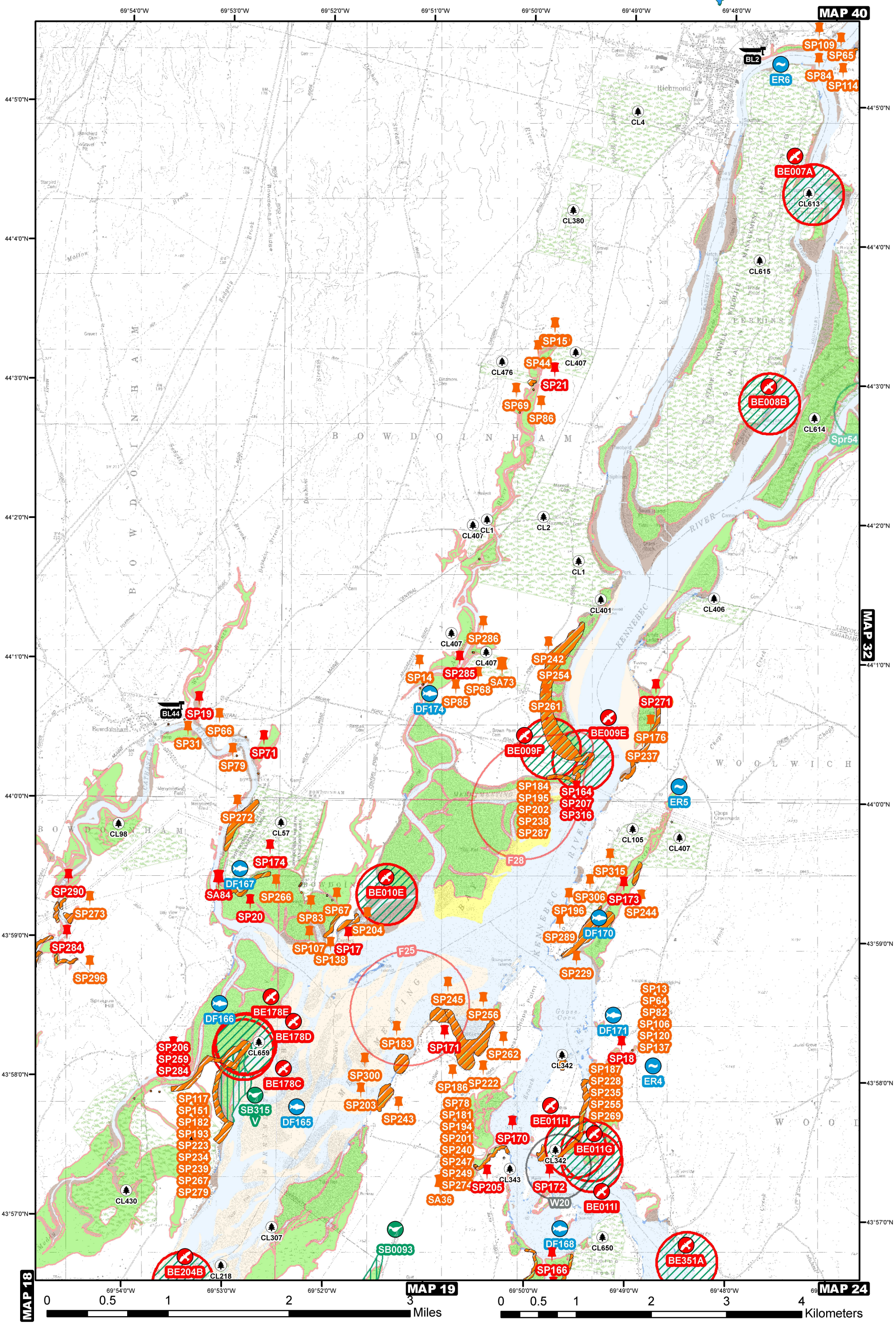
Coastal Barrier Resources System Area

MAP 20

MAINE ENVIRONMENTAL VULNERABILITY INDEX

Version 2

These maps are intended to provide information solely for marine oil spill contingency planning.
Not all resources in any specific area will be shown. Contact agencies directly for more information.
1:45,000



ENVIRONMENTAL SENSITIVITY MAP - 20

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-29-1

THREATENED AND ENDANGERED SPECIES / SPECIES OF SPECIAL CONCERN

BALD EAGLE ESSENTIAL HABITAT (BE)

HARLEQUIN DUCK WINTERING HABITAT (HD)

PIPING PLOVER / LEAST TERN ESSENTIAL HABITAT (PPLT)

ROSEATE TERN ESSENTIAL HABITAT (RT)

Other T or E Species
SA: Sensitive Animal
SP: Sensitive Plant

Other SSC
SA = Sensitive Animal
SP = Sensitive Plant

BIRDS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J F M	A M J	J A S	O N D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
BE007A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE008B	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE009E	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE009F	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE010E	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE011G	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE011H	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE011I	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE178C	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE178D	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE178E	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE204B	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	
BE351A	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C C C	C C C	C C C	C C C		Feb.- Sep.		Oct.- Jan.	

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SA36	Redfin Pickerel	*Esox americanus*	SC	
SA73	Ribbon Snake	*Thamnophis sauritus*	SC	
SA84	Tidewater Mucket	*Leptodea ochracea*	T	
SP106	Mudwort	*Limosella australis*	SC	
SP107	Mudwort	*Limosella australis*	SC	
SP109	Mudwort	*Limosella australis*	SC	
SP114	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP117	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP119	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP120	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP13	Pygmyweed	*Crassula aquatica*	SC	
SP137	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP138	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP14	Pygmyweed	*Crassula aquatica*	SC	
SP15	Pygmyweed	*Crassula aquatica*	SC	
SP151	Tidal Spikerush	*Eleocharis aestuum*	SC	
SP164	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP166	Lilaeopsis	*Lilaeopsis chinensis*	T	
SP169	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP17	Long's Bitter-cress	*Cardamine longii*	T	
SP170	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP171	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP172	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP173	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP174	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP176	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP177	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP18	Long's Bitter-cress	*Cardamine longii*	T	
SP181	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP182	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP183	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP184	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP185	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP186	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP187	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP19	Long's Bitter-cress	*Cardamine longii*	T	
SP193	Pygmyweed	*Crassula aquatica*	SC	
SP194	Pygmyweed	*Crassula aquatica*	SC	
SP195	Pygmyweed	*Crassula aquatica*	SC	
SP196	Pygmyweed	*Crassula aquatica*	SC	
SP197	Long's Bitter-cress	*Cardamine longii*	T	
SP20	Long's Bitter-cress	*Cardamine longii*	T	
SP200	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP201	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP202	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP203	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP204	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP205	Long's Bitter-cress	*Cardamine longii*	T	
SP206	Long's Bitter-cress	*Cardamine longii*	T	
SP207	Long's Bitter-cress	*Cardamine longii*	T	
SP21	Long's Bitter-cress	*Cardamine longii*	T	
SP220	Mudwort	*Limosella australis*	SC	
SP222	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP223	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP225	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP228	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP229	Water Pimpernel	*Samolus valerandi ssp. parviflorus*	SC	
SP230	Mudwort	*Limosella australis*	SC	
SP234	Mudwort	*Limosella australis*	SC	
SP235	Mudwort	*Limosella australis*	SC	
SP237	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP238	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP239	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP240	Mudwort	*Limosella australis*	SC	
SP242	Mudwort	*Limosella australis*	SC	
SP243	Mudwort	*Limosella australis*	SC	
SP244	Mudwort	*Limosella australis*	SC	
SP245	Mudwort	*Limosella australis*	SC	
SP246	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP247	Estuary Monkeyflower	*Mimulus ringens var. colpophilus*	SC	
SP249	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP251	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP254	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP255	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP256	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP257	Stiff Arrow-head	*Sagittaria rigida*	T	
SP259	Dwarf Bulrush	*Lipocarpha micrantha*	T	
SP260	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP261	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP262	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP266	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP267	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP269	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP271	Stiff Arrow-head	*Sagittaria rigida*	T	
SP272	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP273	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP274	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP277	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP279	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP284	Eaton's Bur-marigold	*Bidens eatonii*	T	

ENVIRONMENTAL SENSITIVITY MAP - 20

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-29-1

SENSITIVE PLANTS / RARE ANIMALS

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED
SP285	Eaton's Bur-marigold	*Bidens eatonii*	T	
SP286	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP287	Horned Pondweed	*Zannichellia palustris*	SC	
SP289	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP290	Long's Bitter-cress	*Cardamine longii*	T	
SP296	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP300	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP303	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP304	Pygmyweed	*Crassula aquatica*	SC	
SP305	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP306	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP31	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP315	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP316	Stiff Arrow-head	*Sagittaria rigida*	T	
SP44	Estuary Bur-marigold	*Bidens hyperborea*	SC	
SP64	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP65	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP66	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP67	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP68	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP69	Spongy Arrow-head	*Sagittaria calycina var. spongiosa*	SC	
SP71	Stiff Arrow-head	*Sagittaria rigida*	T	
SP78	Marsh Bulrush	*Bolboschoenus x novae-angliae*	SC	
SP79	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP82	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP83	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP84	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP85	Parker's Pipewort	*Eriocaulon parkeri*	SC	
SP86	Parker's Pipewort	*Eriocaulon parkeri*	SC	

MARINE SPECIES / ATLANTIC SALMON (where endangered)

MONTHS PRESENT — C=COMMON U=UNCOMMON R=RARE X=PRESENT

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	EGGS	LARVAE	JUVENILES	ADULT
SA36	Redfin Pickerel	*Esox americanus*	SC		U	U	U	U	U	U	U	U	U	U	U	U	Mar.- May	Apr.- May		May - Jul.	
SA84	Tidewater Mucket	*Leptodea ochracea*	T		U	U	U	U	U	U	U	U	U	U	U	U	Jul.- Sep.		Sep.- Aug.		

SHOREBIRDS (SB)

SHOREBIRD SITES ON THIS MAP INCLUDE ONE OR MORE OBSERVATIONS OF THE FOLLOWING SPECIES

MONTHS PRESENT — C= COMMON U=UNCOMMON

COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
Unidentified Yellowlegs	*Tringa spp.*						C	C	U	U	C	C	C	U		Apr.- Jun.		Jul.- Nov.		
White-rumped Sandpiper	*Calidris fuscicollis*									U	U	U	U					Jul.- Oct.		
Spotted Sandpiper	*Actitis macularia*						U	C	C	C	C	C	U					Jul.- Oct.		
Semipalmated Sandpiper	*Calidris pusilla*							C	C	C	C	C	U			May - Jun.		Jul.- Oct.		
Semipalmated Plover	*Charadrius semipalmatus*							C	C	C	C	C	U			May - Jun.		Jul.- Oct.		
Unidentified Sandpiper	*Calidris spp.*						U	C	C	C	C	C	U	U		May - Jun.		Jul.- Oct.		
Lesser Yellowlegs	*Tringa flavipes*							U		C	C	C	U			May		Jul.- Oct.		
Least Sandpiper	*Calidris minutilla*							C	U	C	C	C	U			May - Jun.		Jul.- Oct.		
Killdeer	*Charadrius vociferus*					U	C	C	C	C	C	C	C	U		Mar.- Apr.	Apr.- Aug.	Sep.- Nov.		
Greater Yellowlegs	*Tringa melanoleuca*						C	C	U	U	C	C	C	U		Apr.- Jun.		Jul.- Nov.		

RAFTING BIRDS

Winter (W) Spring (Spr) Summer (Su) Fall (F)

MONTHS PRESENT — C= COMMON U=UNCOMMON

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPRING MIGRATION	NESTING	FALL MIGRATION	WINTERING	MOLTING
F25	Unidentified Scaup	*Aythya spp.*			C	C	C	U	U				U	C	C	C	Feb.- May		Sep.- Dec.	Dec.- Feb.	
	Mallard	*Anas platyrhynchos*			U	U	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Bald Eagle	*Haliaeetus leucocephalus*	T	T	C	C	C	C	C	C	C	C	C	C	C	C		Feb.- Sep.		Oct.- Jan.	
	Am. Green-winged Teal	*Anas crecca*					U	C	C	C	C	C	C	C	U		Mar.- Apr.	Apr.- Jul.	Oct.- Nov.		Jun.- Jul.
	American Black Duck	*Anas rubripes*			C	C	C	C	C	C	C	C	C	C	C	C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
F28	Mallard	*Anas platyrhynchos*			U	U	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Am. Green-winged Teal	*Anas crecca*					U	C	C	C	C	C	C	C	U		Mar.- Apr.	Apr.- Jul.	Oct.- Nov.		Jun.- Jul.
	American Black Duck	*Anas rubripes*			C	C	C	C	C	C	C	C	C	C	C	C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
Spr54	Mallard	*Anas platyrhynchos*			U	U	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
	Am. Green-winged Teal	*Anas crecca*					U	C	C	C	C	C	C	C	U		Mar.- Apr.	Apr.- Jul.	Oct.- Nov.		Jun.- Jul.
	American Black Duck	*Anas rubripes*			C	C	C	C	C	C	C	C	C	C	C	C	Feb.- Apr.	Apr.- Jul.	Oct.- Dec.	Sep.- Mar.	Jun.- Jul.
W20	Unidentified Merganser	*Mergus spp.*			C	C	C	C	C	C	C	C	C	C	C	C	Mar.- Apr.	Apr.- Jul.	Nov.- Dec.	Dec.- Feb.	Jul.- Aug.

FISH: DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

MONTHS PRESENT — FW=FRESHWATER R=RARE

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAE	JUVENILE	ADULT
DF165	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
	trout brown	*Salmo trutta*												x	x	x	FW	FW	FW	Oct.-Feb.
	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	bass striped	*Morone saxatilis*							R	x	x	x	x	x	R		FW	FW	May-Nov	May-Nov.
DF166	salmon atlantic	*Salmo salar*						R	x	x	x	x	x	x	R		FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x	x	x	x							x	x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*						x	x	x	x	x	x	x	x		FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*					R	R	x	x	x	x	x	x	R	x	FW	FW	May-Oct	May-Sep.
	bass striped	*Morone saxatilis*							R	x	x	x	x	x	R		FW	FW	May-Nov	May-Nov.
DF167	salmon atlantic	*Salmo salar*						R	x	x	x	x	x	x	R		FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x	x	x	x							x	x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*						x	x	x	x	x	x	x	x		FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*					R	R	x	x	x	x	x	x	R	x	FW	FW	May-Oct	May-Sep.
DF168	salmon atlantic	*Salmo salar*						R	x	x	x	x	x	x	R		FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x	x	x	x							x	x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*						x	x	x	x	x	x	x	x		FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*					R	R	x	x	x	x	x	x	R	x	FW	FW	May-Oct	May-Sep.

ENVIRONMENTAL SENSITIVITY MAP - 20

GEOGRAPHIC RESPONSE PLANS (BOOMING STRATEGIES) FOR THIS MAP AREA: B-29-1

FISH: DIADROMOUS FISH (DF) ELVER RUNS (ER) HERRING SPAWNING AREAS (HS)

EVI NO	COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	LARVAE	JUVENILE	ADULT
																		FW=FRESHWATER	R=RARE	
DF170	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
DF171	salmon atlantic	*Salmo salar*						R	x	x	x	x	x	x	R		FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x	x	x	x							x	x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*						x	x	x	x	x	x	x	x		FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*					R	R	x	x	x	x	x	x	R	x	FW	FW	May-Oct	May-Sep.
DF174	salmon atlantic	*Salmo salar*						R	x	x	x	x	x	x	R		FW	FW	Apr-Jul	Apr.-Oct.
	trout brook	*Salvelinus fontinalis*			x	x	x	x							x	x	FW	FW	FW	May-Sep.
	smelt rainbow	*Osmerus mordax*			x	x	x	x	x	x	x	x	x	x	x	x	Mar.-Jun.	May-Sept.	Jan-Dec	Jan.-Dec.
	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
	sturgeon shortnose	*Acipenser brevirostrum*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Jan-Dec	Jan.-Dec.
	sturgeon atlantic	*Acipenser oxyrinchus*			x	x	x	x	x	x	x	x	x	x	x	x	FW	FW	Apr-Nov	Apr.-Nov.
	alewife	*Alosa pseudoharengus*			R	R	R	x	x	x	x	x	x	x	R	R	FW	FW	Jan-Dec	Apr.-Oct.
	blueback herring	*Alosa aestivalis*						x	x	x	x	x	x	x	x		FW	FW	Apr-Nov	Apr.-Nov.
	shad american	*Alosa sapidissima*					R	R	x	x	x	x	x	x	R	x	FW	FW	May-Oct	May-Sep.
	bass striped	*Morone saxatilis*							R	x	x	x	x	x	R		FW	FW	May-Nov	May-Nov.
ER4	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER5	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.
ER6	eel american	*Anguilla rostrata*			x	x	x	x	x	x	x	x	x	x	x	x	N/A	Apr.-Jun.	Jan-Dec	Aug.-Nov.

HABITATS: SEAL HAUL-OUTS EELGRASS BEDS MARINE WORM HABITAT

COUNTS COMBINE HARBOR AND GRAY SEAL

COMMON NAME	SCIENTIFIC NAME	ST	FED	MONTHS PRESENT C= COMMON U=UNCOMMON J	F	M	A	M	J	J	A	S	O	N	D	MOLTING	PUPPING
Harbor Seal	*Phoca vitulina*			C	C	C	C	C	C	C	C	C	C	C	C	Aug.	Apr.- Jun.
Gray Seal	*Halichoerus grypus*			C	C	C	C	C	C	C	C	C	C	C	C		Jan.- Feb.

CONSERVATION LANDS (CL)

EVI NO	NAME
CL1	UNIDENTIFIED
CL105	CHOPPS CREEK
CL2	ABAGADASSET RIVER
CL218	FREYEE ISLAND, NORTH
CL254	GREEN POINT WMA
CL307	ISLAND
CL342	LINES
CL343	LINES - RoW
CL380	LOWER KENNEBEC ESTUARY
CL4	ALICE WHEELER FARM
CL401	MAXWELL ISLAND
CL405	MERRYMEETING BAY
CL406	MERRYMEETING BAY EAST
CL407	MERRYMEETING BAY WMA
CL430	MUDDY RIVER WMA
CL476	PIERCE
CL57	BOWDOINHAM WMA
CL613	STEVE POWELL WMA, LITTLE SWAN ISLAND
CL614	STEVE POWELL WMA, MIDDLE GROUND
CL615	STEVE POWELL WMA, SWAN ISLAND
CL650	THORNE HEAD
CL659	TRAFTON
CL98	CATHANCE RIVER

BOAT LAUNCHES (BL) (state sponsored or assisted)

EVI NO	OWNER	TYPE	RIG PARKING	FLOATS	TIDE	TOILET
BL2	RICHMOND	TR	10	Y	ALL	N
BL44	BOWDOINHAM	TR	6	Y	ALL	N

MARINE GEOLOGY LAYERS

Ranked most to least vulnerable

- Marshes (1)
- Mud Flats, Sheltered (2)
- Coarse Flats & Bars, Exposed (3)
- Coarse Beaches & Riprap (4)
- Mixed & Low Energy Beaches (5)
- Sand Beaches (6)
- Rocky Shores (7)
- Sand Dunes (8)
- Coastal Barrier Resources System Area