

## **Avian Work Group Meeting #1**

**Friday, August 1; 1:00pm – 2:30pm**

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### **Materials:**

- Table of cross-cutting issues for marine life data products (introduced at June 25th Workshop) – Page 3
- Summary of at-sea transect surveys from the Avian Compendium – Pages 4-6
- Draft Northeast species list – Pages 7 & 8
- Summary of Avian Compendium datasets (separate attachment)

**Call in:** 877-680-1673; **Code:** 1993954#

**Webinar Link:** <https://global.gotomeeting.com/join/803927253>

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**Agenda:**

**I. Introductions**

**II. Northeast Ocean Planning (Nick Napoli, NROC)**

- Work group role
- Timeline

**III. Data (Brian Kinlan, NOAA)**

- Summary of datasets in-hand
- Opportunities to provide input on additional data resources

**IV. Species (Brian Kinlan, NOAA)**

- Process for selecting focal species
- Seabirds vs. shorebirds
- Other groupings

**V. Avian Product Options (Brian Kinlan, NOAA)**

- Spatial extent
- Spatial resolution
- Temporal resolution
- Parameter(s) mapped (e.g. probability of occurrence, abundance, quantiles)
- Presenting/integrating results of multiple models

**VI. Summary and Next Steps**

- Presentation of avian analysis plan at next WG meeting

Across marine life categories (marine mammals, turtles, birds and fish), there are many options to consider when creating new spatial data products. The following table presents these options using the same categories that we used to review projects in the “Draft summary of marine life data sources and approaches to define ecologically important areas and measure ocean health”, presented at the June 25<sup>th</sup> Natural Resources Workshop: Data Collection, Temporal Extent, Treatment of Data, Spatial Products and Uses. This presentation of options is meant to organize the discussion about how new spatial data products can be developed.

CROSSCUTTING ISSUES	OPTIONS
DATA COLLECTION	<ul style="list-style-type: none"> <li>• Sources</li> <li>• Geographic scope</li> <li>• How to integrate survey methods?</li> <li>• How to integrate expert knowledge?</li> </ul>
TEMPORAL EXTENT	<ul style="list-style-type: none"> <li>• How many decades of data to include?</li> <li>• Monthly, seasonal, annual summaries</li> </ul>
TREATMENT OF DATA	<ul style="list-style-type: none"> <li>• Summarize by species, guilds, functional groups</li> <li>• Incorporate migration routes?</li> <li>• Which environmental covariates?</li> </ul>
SPATIAL PRODUCTS	<ul style="list-style-type: none"> <li>• Tier I spatial products (observations)</li> <li>• Tier II spatial products (observations + habitat)</li> </ul>
USES	<ul style="list-style-type: none"> <li>• As supporting information</li> <li>• For environmental impact assessment and/or permitting decisions by state or federal regulatory agencies</li> <li>• Assessing compatibility with other uses</li> </ul>

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Table. List of species and number of sightings in each season. For each season, only species with  $\geq 100$  sightings would normally be modelled. Number of sightings includes incomplete records (missing predictor data) that would be excluded from the analysis.

Species code	Common name	Scientific name	Family	Number of sightings				
				Total	Spring	Summer	Fall	Winter
razo	Razorbill	<i>Alca torda</i>	Alcidae	3597	856	358	479	1904
dove	Dovekie	<i>Alle alle</i>	Alcidae	1776	283	53	418	1022
blgu	Black guillemot	<i>Cepphus grylle</i>	Alcidae	203	17	111	15	60
atpu	Atlantic puffin	<i>Fratercula arctica</i>	Alcidae	855	220	273	95	267
comu	Common murre	<i>Uria aalge</i>	Alcidae	279	87	41	12	139
lesc	Lesser scaup	<i>Aythya affinis</i>	Anatidae	103	0	0	0	103
ltdu	Long-tailed duck	<i>Clangula hyemalis</i>	Anatidae	7634	1581	782	1317	3954
blsc	Black scoter	<i>Melanitta americana</i>	Anatidae	2772	581	155	449	1587
wwsc	White-winged scoter	<i>Melanitta fusca</i>	Anatidae	3438	698	313	751	1676
susc	Surf scoter	<i>Melanitta perspicillata</i>	Anatidae	5094	1192	621	1141	2140
rbme	Red-breasted merganser	<i>Mergus serrator</i>	Anatidae	297	131	0	28	138
coei	Common eider	<i>Somateria mollissima</i>	Anatidae	5688	1210	710	1084	2684
colo	Common loon	<i>Gavia immer</i>	Gaviidae	8299	2445	621	1327	3906
rtlo	Red-throated loon	<i>Gavia stellata</i>	Gaviidae	5696	2237	173	503	2783
wisp	Wilson's storm-petrel	<i>Oceanites oceanicus</i>	Hydrobatidae	10886	1722	7743	1331	90
brsp	Band-rumped storm-petrel	<i>Oceanodroma castro</i>	Hydrobatidae	275	14	251	10	0
lesp	Leach's storm-petrel	<i>Oceanodroma leucorhoa</i>	Hydrobatidae	2654	227	1969	457	1
bogu	Bonaparte's gull	<i>Chroicocephalus philadelphia</i>	Laridae	2311	551	113	383	1264
herg	Herring gull	<i>Larus argentatus</i>	Laridae	22300	5845	3291	7663	5501

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rbgu	Ring-billed gull	<i>Larus delawarensis</i>	Laridae	1777	263	80	294	1140
gbbg	Great black-backed gull	<i>Larus marinus</i>	Laridae	16053	3411	3347	5449	3846
lagu	Laughing gull	<i>Leucophaeus atricilla</i>	Laridae	3726	696	1428	1399	203
blki	Black-legged kittiwake	<i>Rissa tridactyla</i>	Laridae	7035	748	127	2237	3923
brpe	Brown pelican	<i>Pelecanus occidentalis</i>	Pelecanidae	513	104	167	100	142
dcco	Double-crested cormorant	<i>Phalacrocorax auritus</i>	Phalacrocoracidae	906	131	230	237	308
hogr	Horned grebe	<i>Podiceps auritus</i>	Podicipedidae	186	33	16	31	106
cosh	Cory's shearwater	<i>Calonectris diomedea</i>	Procellariidae	4368	135	2658	1549	26
nofu	Northern fulmar	<i>Fulmarus glacialis</i>	Procellariidae	6678	2253	742	1828	1855
bcpe	Black-capped petrel	<i>Pterodroma hasitata</i>	Procellariidae	600	158	339	93	10
grsh	Great shearwater	<i>Puffinus gravis</i>	Procellariidae	12765	614	5817	6190	144
sosh	Sooty shearwater	<i>Puffinus griseus</i>	Procellariidae	2447	784	1548	111	4
aush	Audubon's shearwater	<i>Puffinus lherminieri</i>	Procellariidae	1205	130	753	278	44
mash	Manx shearwater	<i>Puffinus puffinus</i>	Procellariidae	687	101	306	265	15
reph	Red phalarope	<i>Phalaropus fulicarius</i>	Scolopacidae	1030	462	220	286	62
rnph	Red-necked phalarope	<i>Phalaropus lobatus</i>	Scolopacidae	471	130	172	155	14
spsk	South polar skua	<i>Stercorarius maccormicki</i>	Stercorariidae	216	21	72	123	0
paja	Parasitic jaeger	<i>Stercorarius parasiticus</i>	Stercorariidae	298	48	75	160	15
poja	Pomarine jaeger	<i>Stercorarius pomarinus</i>	Stercorariidae	983	111	146	714	12
grsk	Great skua	<i>Stercorarius skua</i>	Stercorariidae	242	16	26	174	26
lete	Least tern	<i>Sterna antillarum</i>	Sternidae	303	28	183	86	6
rost	Roseate tern	<i>Sterna dougallii</i>	Sternidae	621	87	265	208	61
cote	Common tern	<i>Sterna hirundo</i>	Sternidae	3089	543	1448	908	190

# DRAFT

royt	Royal tern	<i>Sterna maxima</i>	Sternidae	968	391	271	287	19
arte	Arctic tern	<i>Sterna paradisaea</i>	Sternidae	263	44	176	43	0
noga	Northern gannet	<i>Morus bassanus</i>	Sulidae	19687	5868	1538	4192	8089

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Alphabetized by species

Species - common name	Federal					State		Other				
	ESA	MMPA	EFH	FWS BCR30 Priority	MBTA	E, T, SC	Ocean Plans	Managed fishery	Keystone	Likely to interact with priority human uses	Range info, migratory, etc.	MDAT no. of observations
American avocet				Moderate	X							
American black duck				Highest	X							
American golden plover				High	X							
American oystercatcher				Highest	X	ME, RI, CT (SC)						
Arctic tern				X	X	ME (E); NH, MA (SC)	MA SSU					263
Atlantic brant				Highest	X							
Atlantic puffin				X	X	ME (E)						855
Audubon's shearwater				High	X							
Black guillemot				X	X							203
Black rail				Highest	X	CT, NY (E)						
Black scoter				High	X		MA SSU; RI ADP					2772
Black skimmer				X	X		MA SSU					
Black tern				X	X	ME, NY (E)	MA SSU					
Black-bellied plover				High	X							
Black-legged kittiwake				X	X		NY					7035
Blackpoll warbler				X	X	MA (SC)						
Bonaparte's gull				X	X	ME (SC)						2311
Bridled tern				High	X							
Buff-breasted sandpiper				High	X							
Bufflehead				High	X							
Canada goose - Atl. Pop				Highest	X							
Canvasback				High	X							
Caspian tern				X	X							
Clapper rail				High	X	RI (SC)						
Common eider				High	X		MA SSU; RI ADP					5668
Common goldeneye				Moderate	X							
Common loon				X	X	NH (T); MA, CT, NY (SC)	NY					8299
Common murre				X	X	ME (SC)						279
Common snipe				Moderate	X							
Common tern				Moderate	X	NH, NY (T); ME, MA, CT (SC)	MA SSU; NY					3089
Cory's shearwater				Moderate	X		NY					4368
Double-crested cormorant				X	X		MA SSU					906
Dovekie				X	X		NY					1776
Dunlin				High	X							
Forster's tern				High	X		MA SSU					
Golden-winged warbler				Moderate	X	MA (E)						
Grasshopper sparrow				Moderate	X	MA (T)						
Great black-backed gull				X	X		NY					16053
Great cormorant				X	X	ME (E)						
Great shearwater				High	X		NY					12765
Greater scaup				High	X	ME (SC)						
Greater yellowlegs				High	X							
Gull-billed tern				X	X							
Harlequin duck				Moderate	X	ME (E); RI (SC)	ADP					
Henslow's sparrow				High	X	MA (E); NY (T)						
Herring gull				X	X		NY					22300
Hooded merganser				Moderate	X	RI (SC)						
Horned grebe				High	X							186
Hudsonian godwit				High	X							
Ipswich savannah sparrow				Moderate	X	CT (SC)						
King rail				Moderate	X	CT (E); MA, NY (T); RI (SC)						
Laughing gull				X	X	ME (SC)	NY					3726
Leach's storm petrel				X	X	MA (E); ME (SC)	MA SSU					2654
Least sandpiper				Moderate	X							
Least tern				High	X	ME, NH (E); RI, CT, NY (T)	MA SSU					303
Lesser scaup				High	X							103
Lesser yellowlegs				Moderate	X	ME (SC)						
Little gull				X	X							
Long-tailed duck				High	X		MA SSU; RI ADP					7634
Manx shearwater				Moderate	X							687
Marbled godwit				High	X							
Marsh wren				High	X	RI (SC)						
Mourning warbler				X	X	MA (SC)						
Nelson's sparrow				Moderate	X	ME, NH (SC);						
Northern fulmar				X	X		NY					6678
Northern gannet				High	X		NY					19687
Northern parula				X	X	MA (T)						
Northern pintail				Moderate	X							
Osprey				X	X	NH, RI, NY (SC)						
Pied billed grebe				X	X	ME (E)						
Piping plover				High	X	ME, NH, NY (E); MA, RI, CT (T)						
Pomarine jaeger				X	X		NY					983
Purple sandpiper				High	X							
Razorbill				Moderate	X	ME (E)						3597
Red knot		SC		Highest	X	ME (SC)						
Red phalarope				Moderate	X							1030
Red-breasted merganser				Moderate	X							297
Red-necked phalarope				Moderate	X	ME (SC)						471
Red-throated loon				Highest	X							5696
Roseate tern		E		Highest	X	ME, NH, MA, CT, NY (E)	MA SSU					621
Royal tern				Moderate	X							968
Ruddy duck				Moderate	X							
Ruddy turnstone				High	X							
Saltmarsh sparrow				High	X	ME, NH, CT (SC)						
Sanderling				High	X							
Seaside sparrow				Moderate	X	NH, RI, CT, NY (SC)						
Sedge wren				Moderate	X	ME, NH, MA, CT (E); NY (T)						
Semipalmated plover				Moderate	X							
Semipalmated sandpiper				High	X	ME (SC)						
Short-billed dowitcher				High	X							
Short-eared owl				Moderate	X	ME, MA, NY (E); CT (T)						
Sooty shearwater				X	X		NY					2447
Species group - Alcids, less common							NY					

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Species - common name	Federal					State		Other				
	ESA	MMPA	EFH	FWS BCR30 Priority	MBTA	E, T, SC	Ocean Plans	Managed fishery	Keystone	Likely to interact with priority human uses	Range info, migratory, etc.	MDAT no. of observations
Species group - Coastal waterfowl												
Species group - Jaegers												
Species group - Phalaropes												
Species group - Shearwaters, less common												
Species group - Small gulls, less common												
Species group - Terns, less common												
Species group - Unidentified gulls												
Surf scoter				High	X							5094
Thayer's gull					X							
Tundra swan - eastern				High	X							
Upland sandpiper				Moderate	X	MA (E)						
Vesper sparrow					X	MA (T)						
Western sandpiper				Moderate	X							
Whimbrel				Highest	X	ME (SC)						
White-rumped sandpiper				High	X							
White-winged scoter				High	X					MA SSU; RI ADP		3438
Willet				High	X	NH, RI (SC)						
Wilson's plover				High	X							
Wilson's storm petrel					X							10886