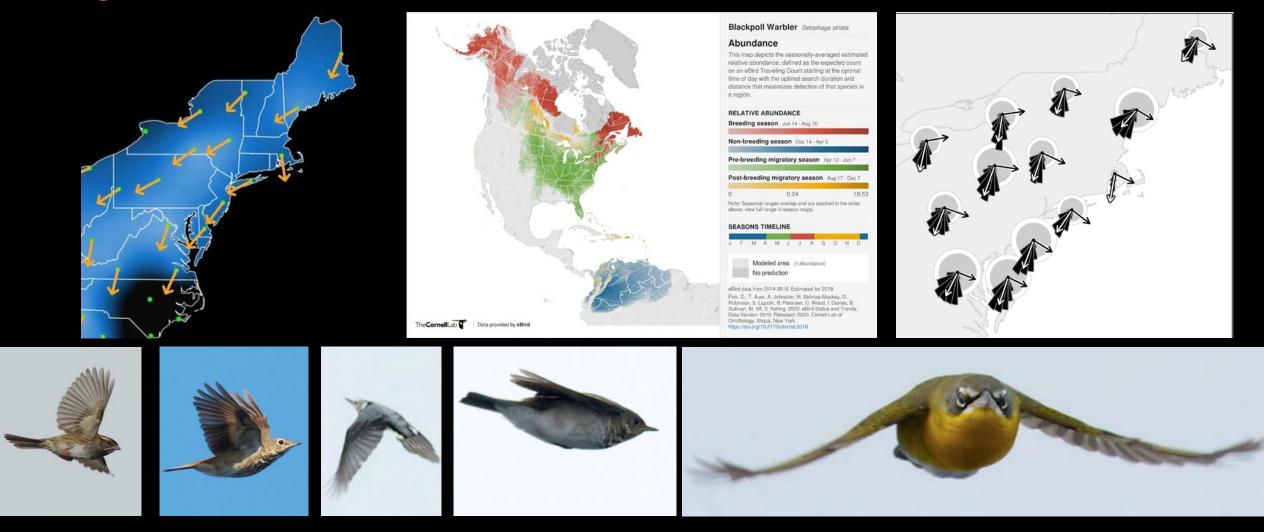
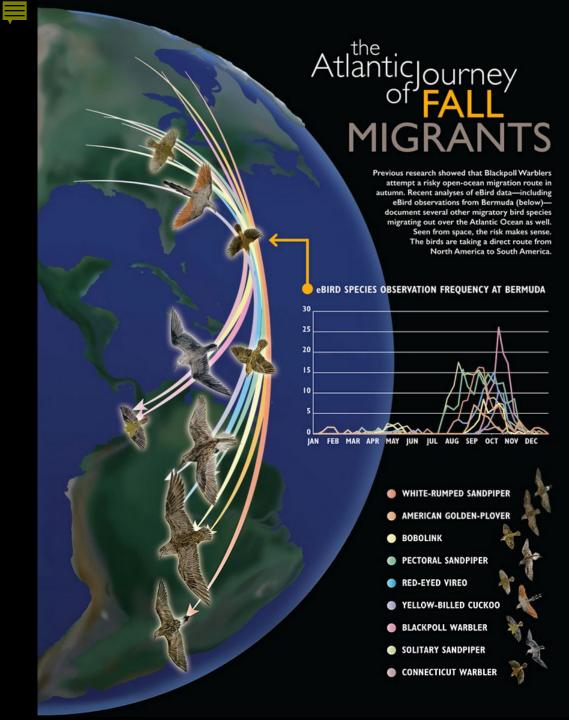


Migration of terrestrial birds in the offshore environment









Coastal Marine Institute

Interactions Between Migrating Birds and Offshore Oil and Gas Platforms in the Northern Gulf of Mexico

Final Report



"Migration Over the Gulf Project" (MOGP), provides data and analyses of trans-Gulf bird migration from three years of intensive study on 13 offshore platforms in the northern Gulf of Mexico.

Platforms have three primary proximate impacts on migrant birds. They:

- 1) provide habitat for resting and refueling;
- 2) induce nocturnal circulations; and
- 3) result in some mortality through collisions.





Coastal Marine Institute

Interactions Between Migrating Birds and Offshore Oil and Gas Platforms in the Northern Gulf of Mexico

Final Report



"The impact of nocturnal circulation events on spring and fall trans-Gulf migrants remains poorly known, and this phenomenon should be examined in a focused observational study . . .

... the goals of such a study should be to quantify in greater detail the dimensions of the circulation phenomenon, to try to determine why some platforms often induce circulations and others never do, to assess the rate of turnover during major circulation events, and to model the energetic impacts on migrants."







Coastal Marine Institute

Interactions Between Migrating Birds and Offshore Oil and Gas Platforms in the Northern Gulf of Mexico

Final Report



Circulations were highly variable in size and composition. The numbers of birds involved varied from a single individual to many hundreds of migrants.

Although a wide variety of species was recorded in circulations, herons, shorebirds, swallows, and warblers were the dominant components.

Certain species seemed especially prone to becoming involved in circulations, including Pied-billed Grebe, Sora, Upland Sandpiper, American Golden-Plover, Bay-breasted Warbler, and Magnolia Warbler.





Data on terrestrial birds in offshore environments

Ambio 2015, 44(Suppl. 4):S557–S571 DOI 10.1007/s13280-015-0707-z

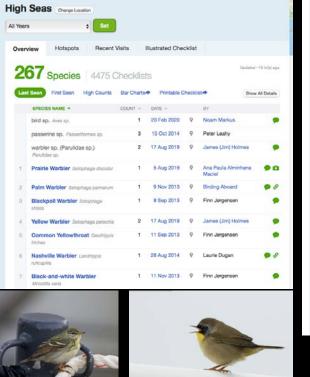


Blackpoll Warbler Setophaga striata



Developing an automated risk management tool to minimize bird and bat mortality at wind facilities

Julia Robinson Willmott, Greg M. Forcey, Lauren A. Hooton

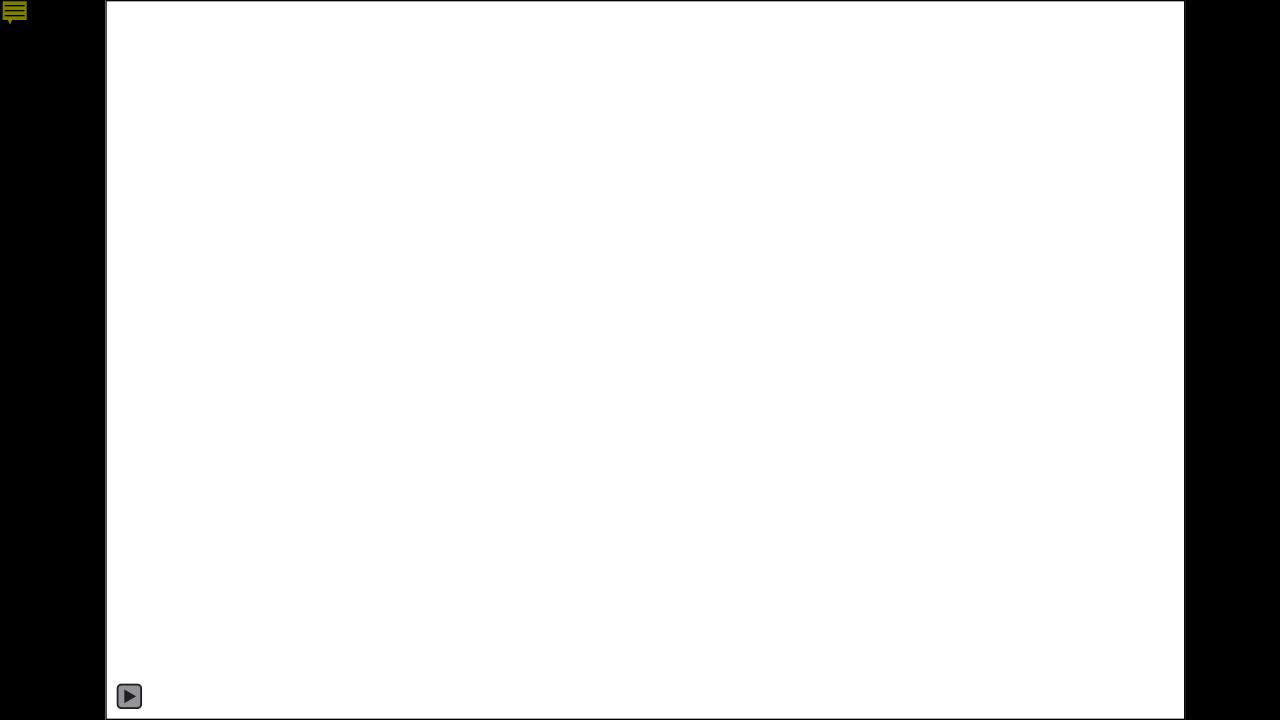


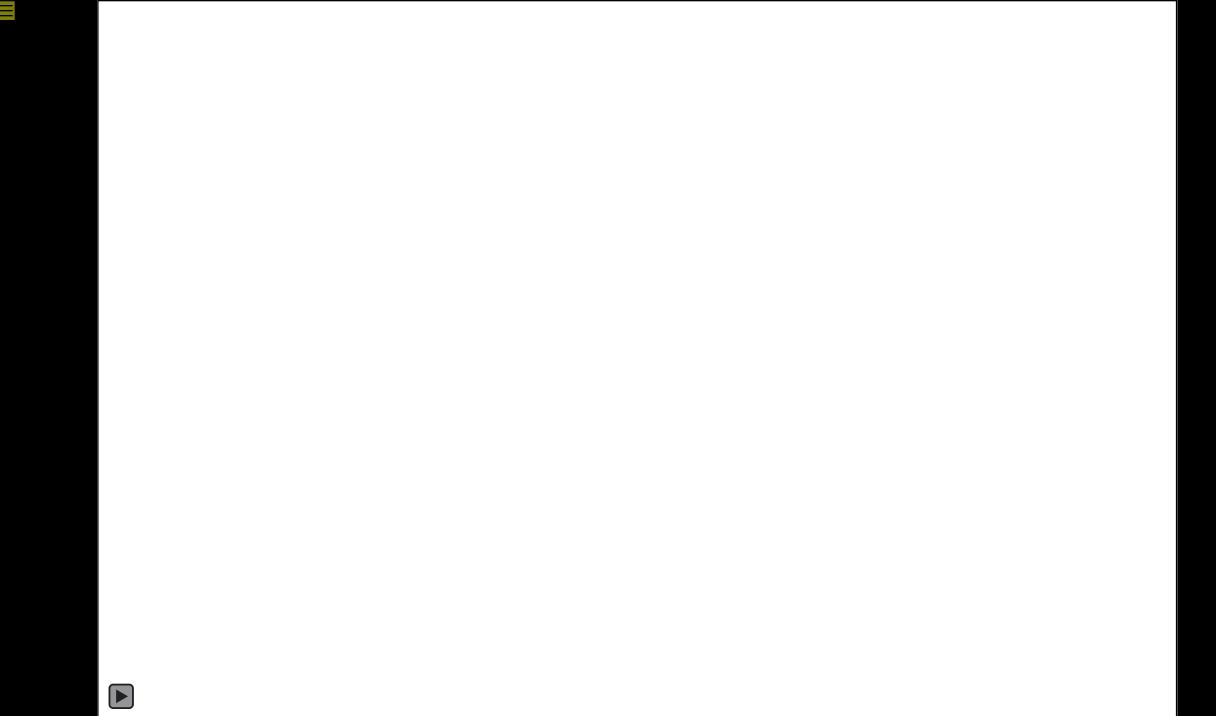
	Diackpoil Warbier Setophaga sulata			gensen						
	Orphan Basin, High Seas									
	Only one seen today.									
1	Yellow Warbler Setophaga petechia	2	17 Aug 2019	James (Jim) Holmes	9					
	© Carnival Cruise Glory 8.17.19 Leg 10 of 25 (25.476, -97.831), High Seas									
	giving flight calls, all yellow									
5	Common Yellowthroat Geothlypis trichas	1	11 Sep 2013	Finn Jør- gensen	9					
	Orphan Basin, High Seas									
	Still around our deck.									
3	Nashville Warbler Leiothlypis ruficapilla	1	28 Aug 2014	Laurie Dugan	9 6					
	Western Atlantic, High Seas									
	https://scontent-iad.xx/fbcdn.net/hphotos-xpt1/v/t1.0- y/1060627_1_j101628728c0019500_838258881578600627_n,jpg? oh=10005c58729926288e84407188770d8o=55A2996F									
	Bird landed on vessel in close proximity to observers. Seemed unbothered by people.									
	Warbler-sized bird. Gray upper parts with yellow belly and neck. White eye ring.									
	I embedded a link to a photo on my Facebook account (which may or may not work) as I do not have a photo sharing account.									
	Black-and-white Warbler Mniotilta varia	1	11 Nov 2013	Finn Jør- gensen	•					
	Black-and-white Warbler Mniotilta varia	1	11 Nov 2013		•					
7		nt it, but in	nportant to register a	gensen possible Black and w						
7	Orphan Basin, High Seas This bird is not verified, no photo, we can not coul Warbler. Most important is to register it as a warble a warbler sp with comment? Northern Waterthrush Parkesia	nt it, but in	nportant to register a	gensen a possible Black and w ite. Maybe best to regi						
	Orphan Basin, High Seas This bird is not verified, no photo, we can not coul Warbler. Most important is to register it as a warble a warbler sp with comment? Northern Waterthrush Parkesia noveboracensis	nt it, but in er seen ou	nportant to register a t here on this late da	gensen a possible Black and w ate. Maybe best to regi						
	Orphan Basin, High Seas This bird is not verified, no photo, we can not coul Warbler. Most important is to register it as a warble a warbler sp with comment? Northern Waterthrush Parkesia	nt it, but in er seen ou	nportant to register a t here on this late da	gensen a possible Black and w ite. Maybe best to regi						

S566 Ambio 2015, 44(Suppl. 4):S557–S571

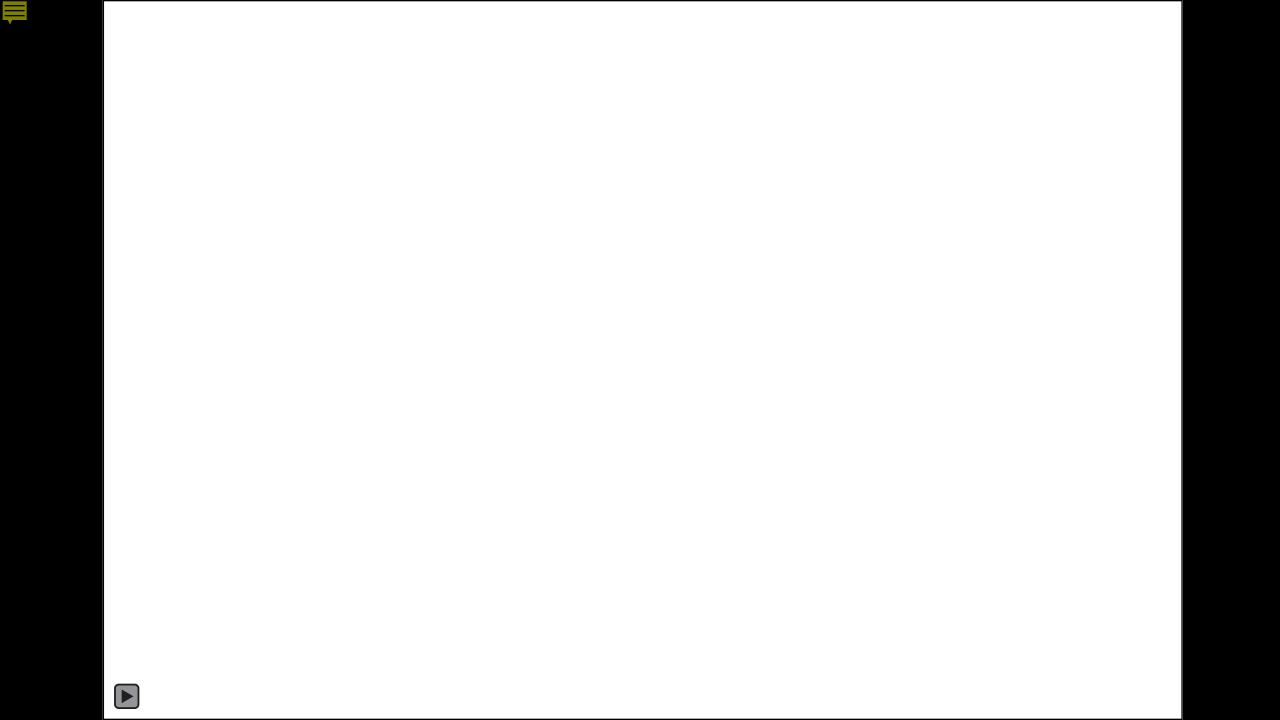
Table 3 Call counts of all bird species (presented in taxonomic order) detected by nocturnal flight call analyses and manually identified to species or taxonomic group. Data were collected at FPSLT deployment (03 April–12 December 2012) during spring (03 April–31 May), breeding season (01 June–15 July), fall (16 July–31 October), and winter (01 November–12 December)

Common Name	Scientific Name	Spring	Breeding	Fall	Winter	Total
Species level identifications						
Royal tem	Thalasseus maximus	1	0	0	0	1
Least bittern	Ixobrychus exilis	0	0	1	0	1
Green heron	Butorides virescens	0	0	7	0	7
Veery	Catharus fuscescens	0	0	14	0	14
Gray-cheeked thrush	Catharus minimus	0	0	81	0	81
Swainson's thrush	Catharus ustulatus	0	0	114	0	114
Hermit thrush	Catharus guttatus	0	0	0	20	20
Wood thrush	Hylocichla mustelina	1	0	4	0	5
American pipit	Anthus rubescens	0	0	0	5	5
Ovenbird	Seiurus aurocapilla	13	0	76	0	89
Northern waterthrush	Parkesia noveboracensis	0	0	9	0	9
Black-and-white warbler	Mniotilta varia	0	0	33	0	33
Prothonotary warbler	Protonotaria citrea	1	0	0	0	1
Common yellowthroat	Geothlypis trichas	12	0	21	0	33
American redstart	Setophaga ruticilla	0	0	69	0	69
Cape May warbler	Setophaga tigrina	0	0	476	0	476
Northern parula	Setophaga americana	3	0	209	0	212
Magnolia warbler	Setophaga magnolia	0	0	6	0	6
Bay-breasted warbler	Setophaga castanea	0	0	14	0	14
Blackburnian warbler	Setophaga fusca	0	0	4	0	4
Yellow warbler	Setophaga petechia	2	0	2	0	4
Chestnut-sided warbler	Setophaga pensylvanica	0	0	2	0	2
Blackpoll warbler	Setophaga striata	16	0	32	0	48
Black-throated blue warbler	Setophaga caerulescens	1	0	54	0	55
Palm warbler	Setophaga palmarum	1	0	324	0	325
Yellow-rumped warbler	Setophaga coronata	7	0	196	0	203
Canada warbler	Cardellina canadensis	2	0	0	0	2
Chipping sparrow	Spizella passerina	18	0	0	0	18
Savannah sparrow	Passerculus sandwichensis	0	0	10	0	10
White-throated sparrow	Zonotrichia albicollis	24	0	1	0	25
Dark-eyed junco	Junco hyemalis	1	0	0	0	1
Blue grosbeak	Passerina caerulea	0	0	1	0	1
Indigo bunting	Passerina cyanea	30	0	9	0	39
Bobolink	Dolichonyx oryzivorus	0	0	11	0	11
Genus-level identifications						
Thrush sp.	Catharus sp.	0	0	29	0	29
Setophaga wood warbler sp.	Setophaga sp.	18	0	134	0	152
Family-level identifications	a confirmed a special confirmed and a special confirme					
Species belonging to wood warblers family	Parulidae sp.	4	0	20	2	26
Species belonging to buntings family	Emberizidae sp.	0	0	3	0	3
Order-level identifications						
Species belonging to the order of passerines	Passeriformes	43	3	431	7	484
Class-level identifications			-			
Birds	Aves	6	1	1	0	8
Total	/**	204	4	2398	34	2640
		201	-	2370	54	2070

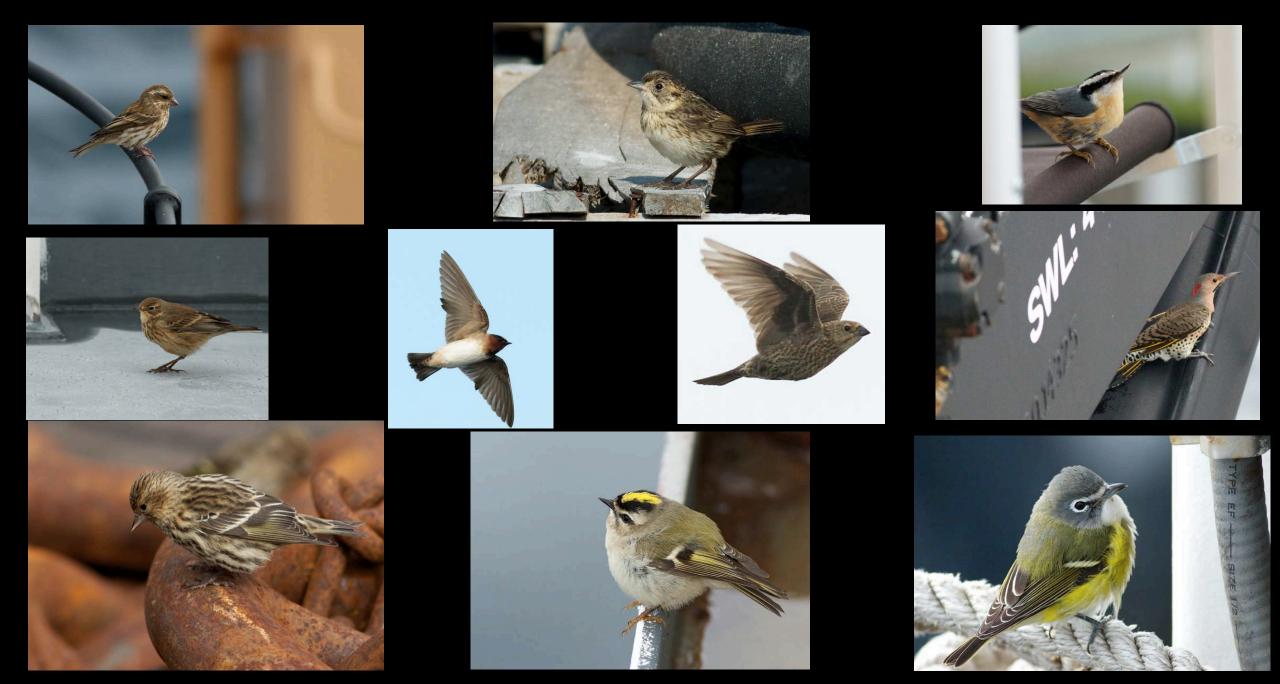








NOAA Surveys (Birds, Mammals, Fisheries) – Diversity Offshore (T. Johnson, photos)



NOAA Surveys (Birds, Mammals, Fisheries) – Diversity Offshore (T. Johnson, photos)



NOAA Surveys (Birds, Mammals, Fisheries) – Diversity Offshore (T. Johnson, photos)

Flocking (intra- and interspecific behaviors, stopover) and predation







BirdCast

Research

People

Scientific Discussions

Live Migration Maps

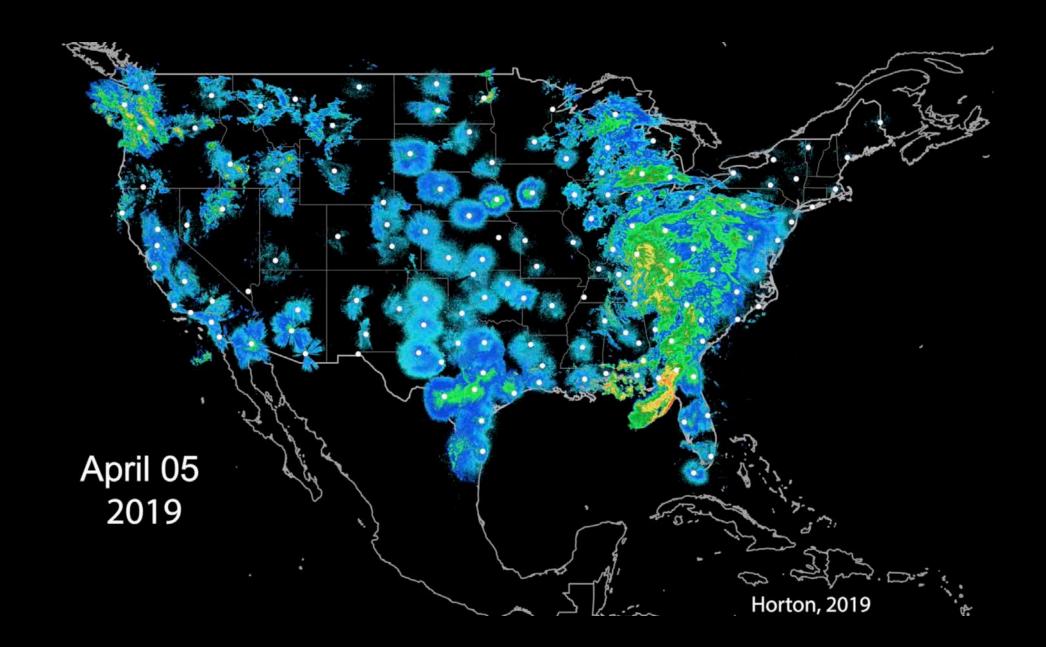
Search for...



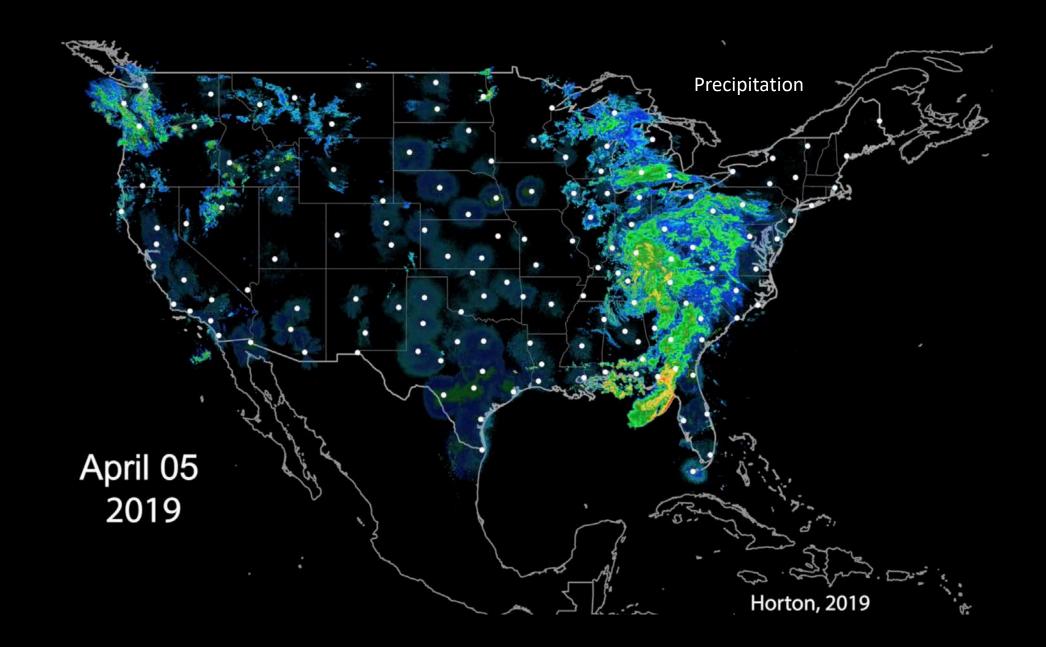


Bird Migration Forecasts in Real-Time

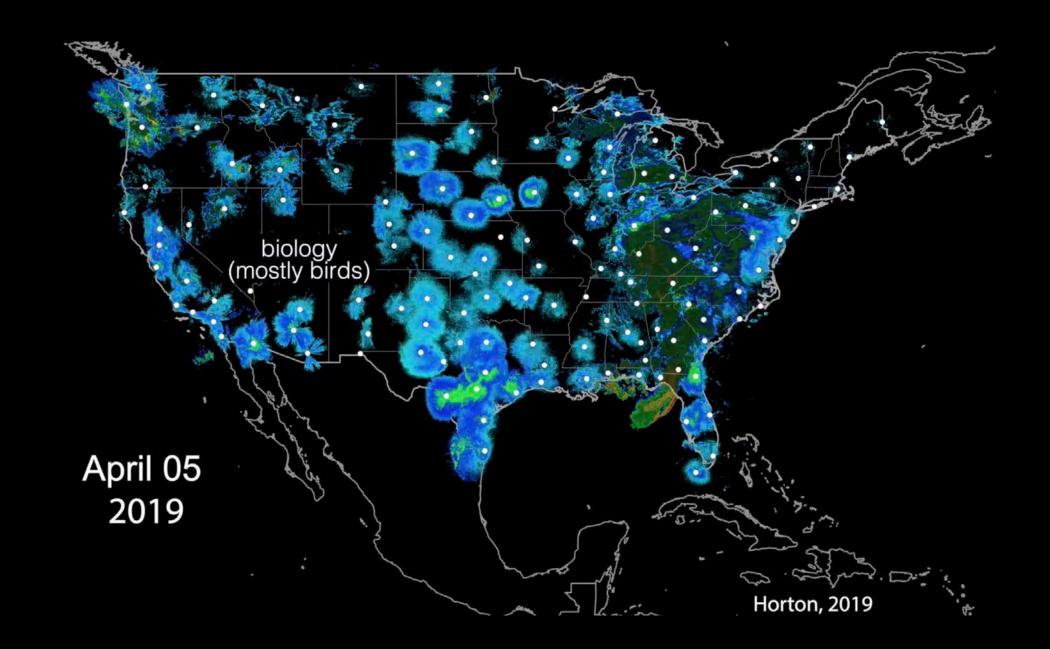
When, where, and how far will birds migrate? Our migration forecasts will answer these questions for the first time.





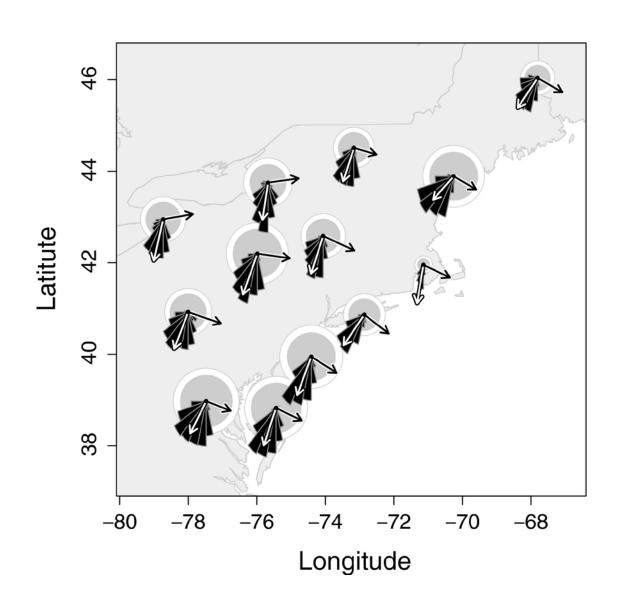


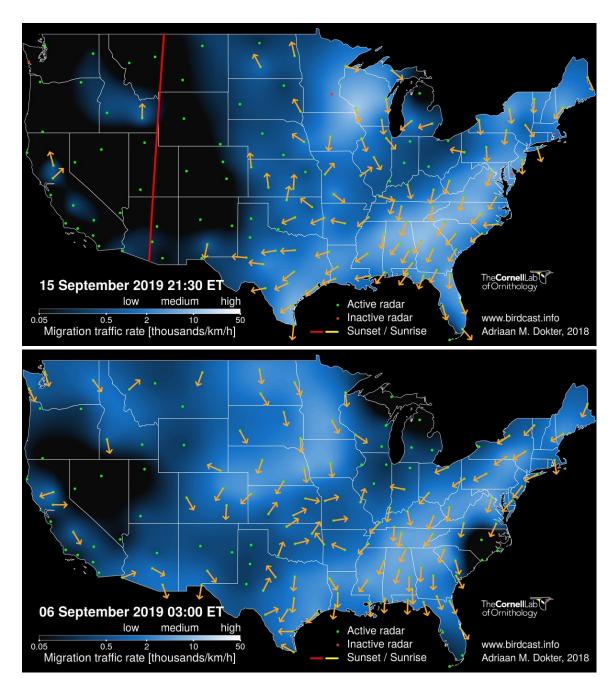






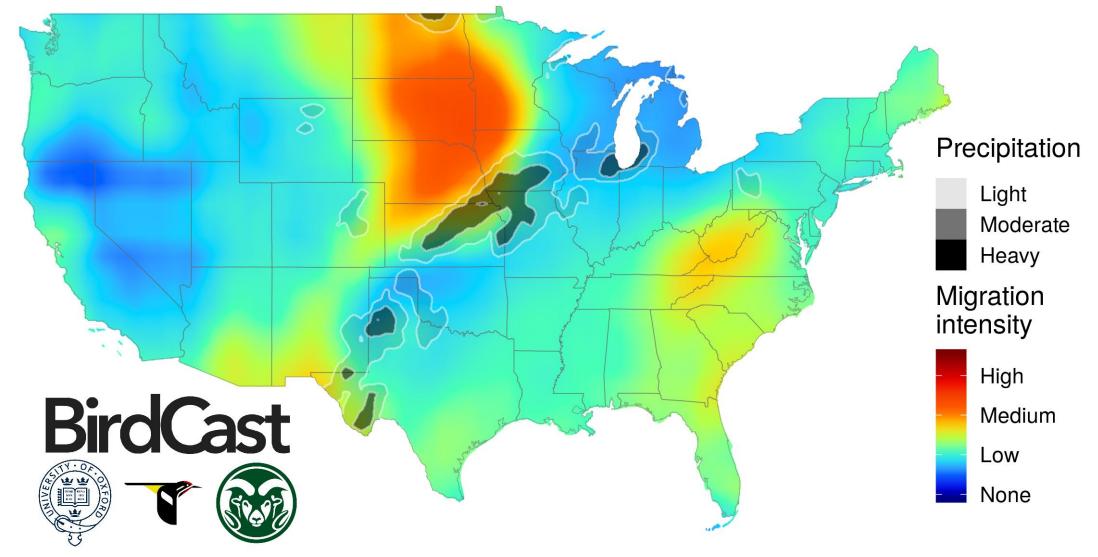
Migration over the western North Atlantic ...



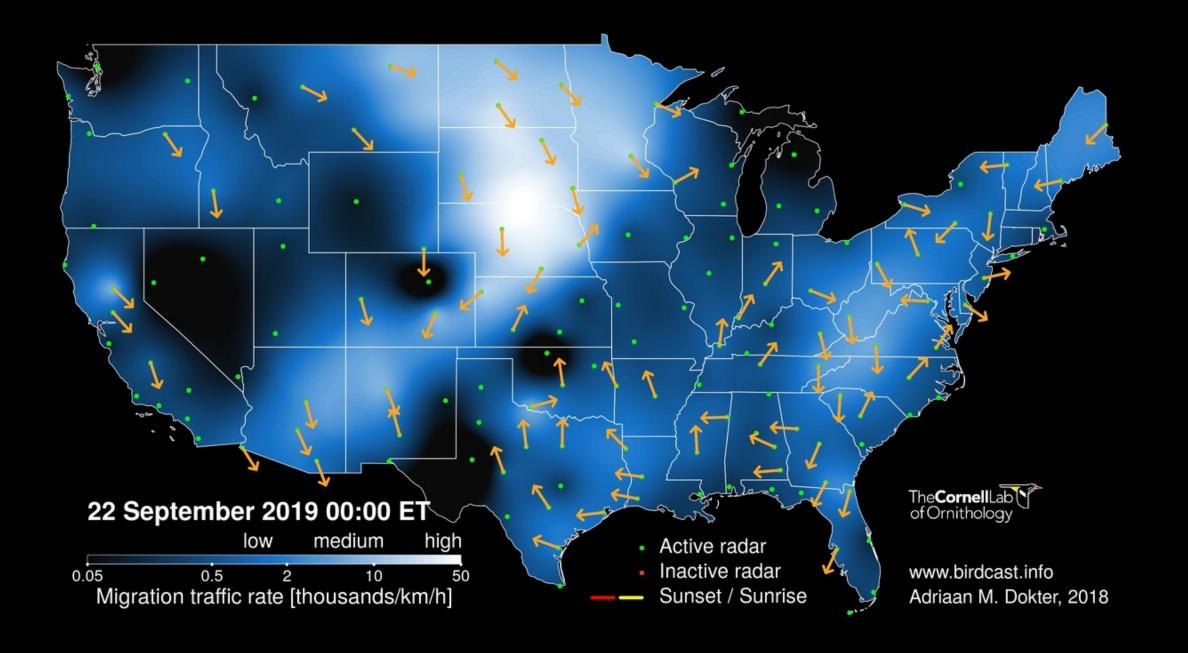


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Night of September 21-22, 2019

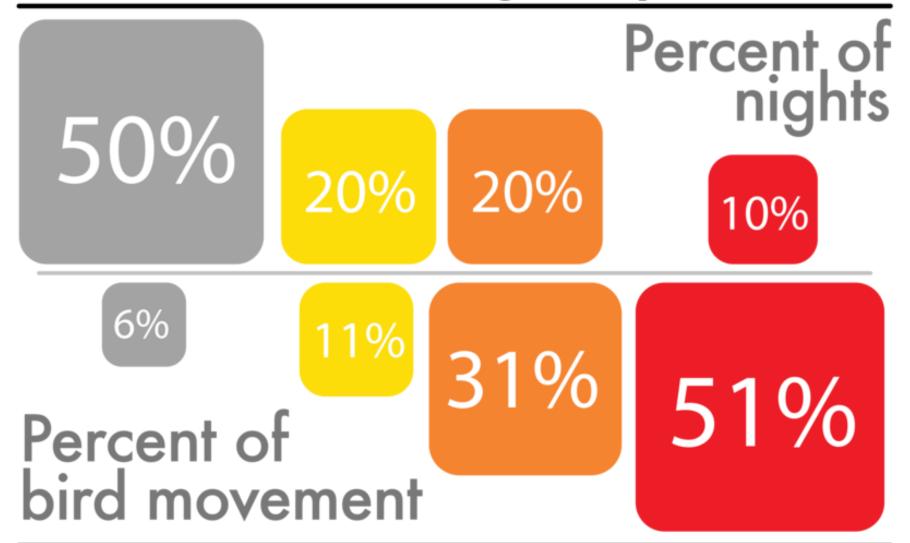








10% of nights per season account for more than 50% of migratory movements



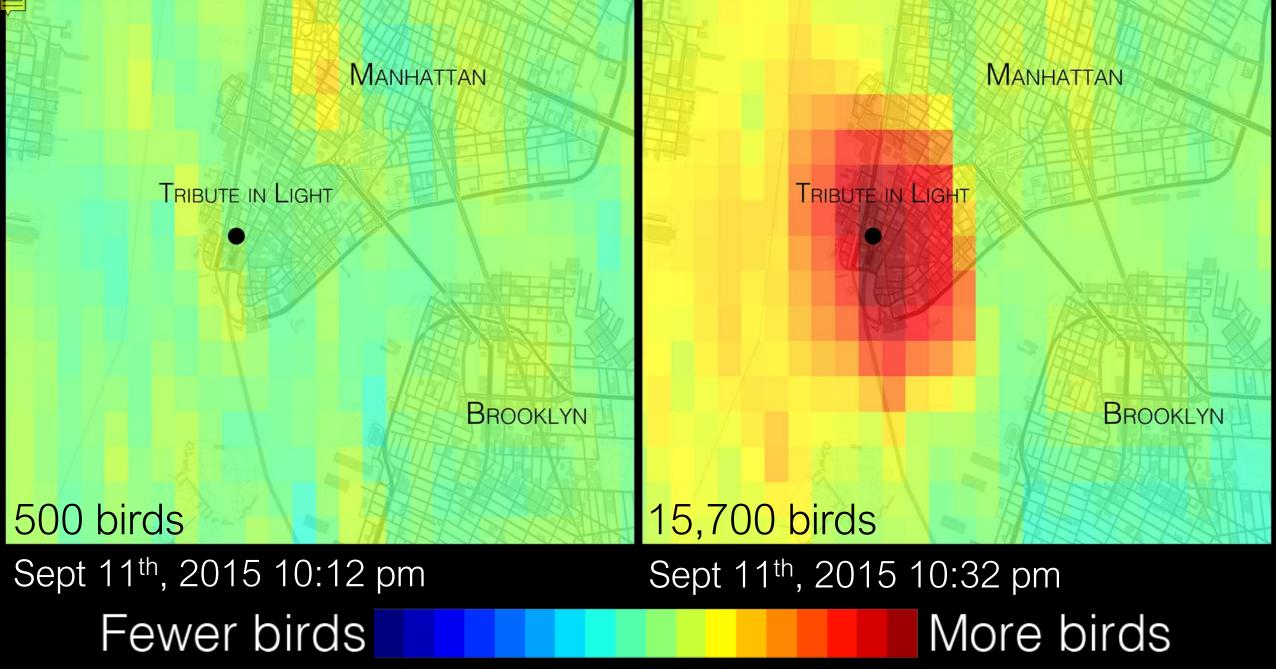


National 9/11 Museum & Memorial Tribute in Light





Van Doren and Horton et al. 2017, PNAS



Van Doren et al PNAS 2017

The Cornell Lab of Ornithology

birdcast.info @DrBirdCast



















Colorado State University



















