Bird Surveys of Chignik Lagoon and Chignik Bay from 24 – 28 January 2011.



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Key Words: Chignik Bay, Chignik Lagoon, wildlife, birds, winter populations, Emperor Goose (*Chen canagica*), Steller's Eider (*Polysticta stelleri*), Yellow-billed Loon (*Gavia adamsii*)

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Introduction

Data on the wintering avifauna of the Chignik Lagoon and Chignik Bay areas is limited. To help fill this knowledge gap, bird/wildlife surveys were conducted at Chignik Lagoon on 24 - 26 January 2011 and at Chignik Bay on 26 and 28 January 2011. In total, 15.3 hours of survey time were invested in the project. A majority of this time was at Chignik Lagoon where the number and diversity of birds demanded a greater investment.

Methods

The survey areas were subdivided and all birds and mammals were counted. Efforts were made to avoid double-counting and under-counting. Surveys were conducted using a Kowa TSN-824 scope with a 20-60X eyepiece and a pair of Leica 10x42 binoculars. All counts were recorded in an all-weather notebook. The survey effort was concentrated on water associated birds and little time was spent looking inland. The one exception, the feeders at the Eagles Roost B&B, were monitored for approximately one hour. The lagoon was predominantly ice free during the survey period but this is not always true. The survey area at Chignik Lagoon began adjacent to the town dump and continued down to the sand spit that separates the lagoon from the ocean. The survey area at Chignik Bay included the inner bay and all viewable areas from the end of the runway.

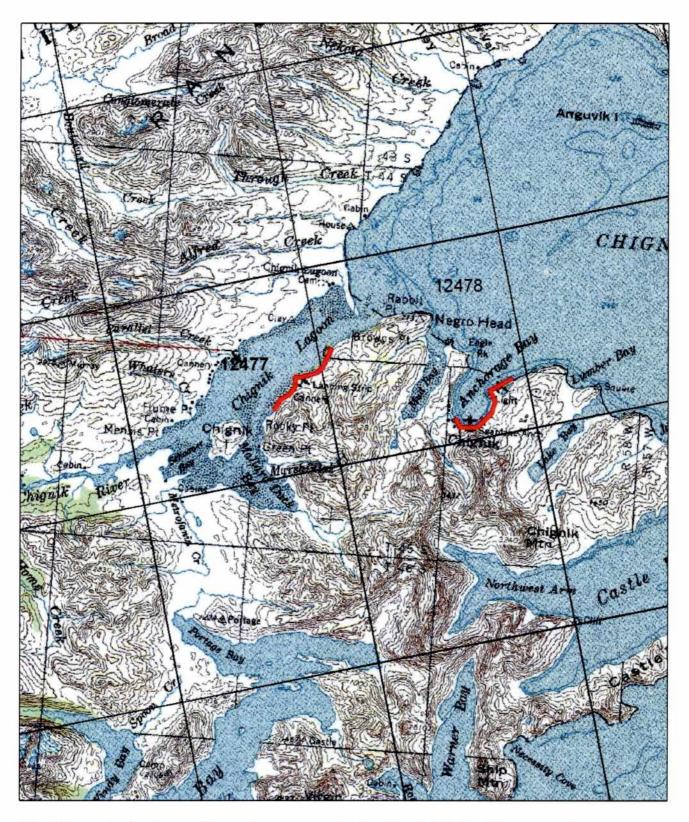
Results

In total, 33 species were identified. Also recorded were several unidentified cormorants, murres, and a single unidentified shorebird. The survey results are presented by location and day (Table 1). It should be noted that hundreds of birds at Chignik Lagoon were too far away to be counted or identified. These birds were not included in the count.

Recommendations

The flights from Chignik Bay and Lagoon are currently scheduled to arrive/leave between 12:00 and 13:00 hours. This schedule allows enough time to survey with a single overnight at each site. One survey should be conducted on the afternoon of arrival and a shorter survey can be done the next morning. This effort, given good weather and viewing conditions, should be sufficient to document all of the common/uncommon species but an additional day may be required to document rare species. The tide may also have a significant impact on the presence or location of birds at Chignik Lagoon and efforts should be made to conduct a survey at both high and low tide.

1/24/11 1/25/2011 + High Count 1/26/2011 + 01/28/11 1/26/2011 + 1/26/2011 + 01/28/11 1/26/2011 + 01/28/2011 + 01/28/2011 + 01/28/2011 + 01/28/2011 + 01/26/2011 + 01/28/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/26/2011 + 01/20/201	Latin Name 1/24/11 1/25/111 1/25/2011+ High Count 1/26/201++ 01/2011 Chen canagica 460 1200 NC 120 0 Abbiton martia 3 120 NC 130 0 Abbiton martia 3 10 0 10 0 0 Poblitica martia 3 10 0 10 0 0 0 Sobalteria specialitis 3 0 0 0 0 0 0 0 Hattarinaria migra 0 <t< th=""><th></th><th></th><th></th><th>Chignik</th><th>Lagoon</th><th></th><th></th><th>Chignik Bay</th><th></th></t<>				Chignik	Lagoon			Chignik Bay	
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Phalacrocorax pelagicus 0 0 0 0 1 7 Phalacrocorax sp. 9 21 NC 21 0 25 Haliaeetus leucocephalus 3 3 3 3 3 3 Larus canus 0 1 0 1 0	Phalacrocorax pelagicus 0 0 0 0 1 7 Phalacrocorax sp. 9 21 NC 21 0 25 Haliaeetus leucocephalus 3 3 3 3 3 3 Larus canus 2 16 53 53 53 0 0 Larus glaucescens 11 8 NC 11 6 16 Larus glaucescens 11 8 NC 11 6 16 Uria agge 0 0 NC 0 7 0 Cepphus columba 9 3 NC 2 21 69 Crophus columba 4 5 NC 5 4 2 Parchyramphus marmoratus 1 0 0 1 0 0 Rachyramphus marmoratus 4 5 NC 5 44 2 Portus corax 4 5 NC 8 0 <td< td=""><td>ed-necked Grebe</td><td>Podiceps grisegena</td><td>0</td><td>-</td><td>NC</td><td>-</td><td>0</td><td>m</td><td>'n</td></td<>	ed-necked Grebe	Podiceps grisegena	0	-	NC	-	0	m	'n
Phalacrocorax sp. 9 21 NC 21 0 25 Haliaeetus leucocephalus 3 3 NC 3 3 3 Larus gancescens 11 8 NC 11 6 16 Ura as glaucescens 11 8 NC 11 6 16 Ura as glaucescens 11 8 NC 11 6 16 Ura as glaucescens 11 8 NC 11 6 16 Ura as glaucescens 1 0 NC 11 6 16 Ura as glaucescens 1 0 NC 2 21 69 Cepphus columba 9 3 NC 9 0 6 69 Reachyramphus marmoratus 1 0 0 1 0 0 1 0 0 Pica hudsonia 4 3 NC 4 3 3 3 Poscile arricapillus	Phalacrocorax sp. 9 21 NC 21 0 25 Haliaeetus leucocephalus 3 3 NC 3 3 3 Larus canus 0 1 0 1 0 0 Larus glaucescens 11 8 NC 11 6 16 Larus glaucescens 11 8 NC 0 0 0 0 Uria sp. 1 2 NC 0 7 0 0 Uria sp. 1 2 NC 9 0 6 69 Cepphus columba 9 3 NC 9 0 6 69 Reachyramphus marmoratus 1 0 0 1 0 0 69 69 69 Prica hudsonia 4 3 NC 4 3 3 3 7 1 0 0 0 0 0 0 0 0 0	elagic Cormorant	Phalacrocorax pelagicus	0	0	0	0	-	7	7
Haliaeetus leucocephalus 3 3 NC 3 3 3 Larus canus 2 16 53 53 0 0 Larus glaucescens 11 8 NC 11 6 0 Uria acige 0 0 0 0 7 0 0 Uria acige 0 1 2 NC 1 6 16 Uria acige 0 0 0 NC 1 0 <td< td=""><td>Haliateetus Ieucocephalus 3 3 NC 3 3 3 Larus canus 2 16 53 53 53 9 Larus glaucescens 11 8 NC 11 6 16 Uria aalge 0 NC 11 6 16 16 Uria aalge 0 NC 2 21 69 16 Uria aalge 9 3 NC 2 21 69 16 Uria aalge 9 3 NC 9 0 6 69 Cepphus columba 9 3 NC 9 0 6 69 Brackhyramphus marmoratus 1 0 0 1 0 6 69 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Passerculus sandwichensis 3 50 NC <t< td=""><td>ormorant sp</td><td>Phalacrocorax sp.</td><td>6</td><td>21</td><td>NC</td><td>21</td><td>0</td><td>25</td><td>25</td></t<></td></td<>	Haliateetus Ieucocephalus 3 3 NC 3 3 3 Larus canus 2 16 53 53 53 9 Larus glaucescens 11 8 NC 11 6 16 Uria aalge 0 NC 11 6 16 16 Uria aalge 0 NC 2 21 69 16 Uria aalge 9 3 NC 2 21 69 16 Uria aalge 9 3 NC 9 0 6 69 Cepphus columba 9 3 NC 9 0 6 69 Brackhyramphus marmoratus 1 0 0 1 0 6 69 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Passerculus sandwichensis 3 50 NC <t< td=""><td>ormorant sp</td><td>Phalacrocorax sp.</td><td>6</td><td>21</td><td>NC</td><td>21</td><td>0</td><td>25</td><td>25</td></t<>	ormorant sp	Phalacrocorax sp.	6	21	NC	21	0	25	25
Larus canus 0 1 0 1 0 0 Larus glaucescens 11 8 NC 11 6 0 Uria acige 0 0 NC 11 6 16 Uria acige 0 0 NC 11 6 16 Uria sp. 1 2 NC 0 7 0 Corpus columba 9 3 NC 2 21 69 Piera hudsomia 4 5 NC 9 0 6 Piera hudsomia 4 5 NC 4 3 3 Corvus contraction 4 3 NC 4 3 3 Poscile arricapillus 3 8 NC 4 3 3 Passeculus sandwichensis 3 5 NC 8 0 0 Leucosticte tephrocotis 3 5 NC 5 0 0 Pinicola	Larus canus 0 1 0 1 0 0 Larus glaucescens 11 8 NC 11 6 0 Uria acige 0 0 0 NC 11 6 16 Uria acige 0 0 0 NC 11 6 16 Uria acige 0 0 0 NC 1 6 16 Uria acige 0 0 NC 0 7 0 0 Brachyramptus marmoratus 1 0 0 1 6 6 Pica hudsonia 4 5 NC 5 4 2 Corvus coraca 4 5 NC 4 3 3 3 Poscile arricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 30 50 NC 80 0 0 Pinicola enucleator 0 0 0	ald Eagle	Haliaeetus leucocephalus	ж	ю	NC	3	3	3	3
Larus canus 2 16 53 53 60 0 Larus glaucescens 11 8 NC 11 6 16 Uria aalge 0 0 NC 0 7 0 Uria sp. 1 2 NC 2 21 69 Cepphus columba 9 3 NC 9 0 7 0 Brachyramphus marmoratus 1 0 0 1 0 0 6 6 Prica hudsonia 4 5 NC 9 0 6 6 Corvus corax 4 3 NC 4 3 3 3 Poscile arricapillus 3 8 NC 4 3 3 Passerculus sandwichensis 0 1 1 1 0 0 Asserculus sandwichensis 3 5 NC 8 0 0 Ieucositice tephrocotis 30 50	Larus glaucescens 11 8 NC 11 6 16 Uria acige 0 0 NC 11 6 16 Uria acige 0 0 NC 0 7 0 Uria acige 0 1 2 NC 2 21 69 Cerphus columba 1 0 0 1 0 0 6 Brachyramphus marmoratus 1 0 0 1 0 0 6 Proceile arcorax 4 3 NC 4 3 3 Corvas acorax 4 3 NC 4 3 3 Poecile arricapillus 3 8 NC 4 3 3 Passerculus sandwichensis 0 1 1 0 0 0 Leucosticte rephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2	horebird sp.		0	-	0	-	0	0	0
Larus glaucescens 11 8 NC 11 6 16 Uria aalge 0 0 NC 0 7 0 Uria sp. 1 2 NC 2 21 69 Cepphus columba 9 3 NC 2 21 69 Brachyramphus marmoratus 1 0 0 1 0 6 Pica hudsonia 4 5 NC 9 0 6 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Poecile atricapillus 3 8 NC 4 3 3 Passerculus sandwichensis 0 1 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 0 0 0 Ieucosticre tephrocotis 30 50 NC 50 0	Larus glaucescens 11 8 NC 11 6 16 Uria aalge 0 0 NC 0 7 0 Uria asp. 1 2 NC 2 21 69 Cepphus columba 9 3 NC 9 0 6 Brachyramphus marmoratus 1 0 0 1 0 6 Pica hudsonia 4 5 NC 9 0 6 Corvus corax 4 3 NC 4 3 3 Poecile atricapillus 3 8 NC 4 3 3 Passerculus sandwichensis 0 1 1 1 0 0 2 Passerculus sandwichensis 0 1 1 1 1 0 0 0 Leucosticre tephrocotts 30 50 NC 50 0 0 Pinicola enucleator 1 11 11	Aew Gull	Larus canus	2	91	53	53	0	0	0
Uria aalge 0 0 NC 0 7 0 Uria sp. 1 2 NC 2 21 69 Cepphus columba 9 3 NC 2 21 69 Brachyramphus marmoratus 1 0 0 1 0 6 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Corvus corax 4 3 NC 4 3 3 Poecile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 0 0 0 Ieucosticte tephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2 0	Uria aalge 0 0 NC 0 7 0 Uria sp. 1 2 NC 2 21 69 Cepphus columba 9 3 NC 2 21 69 Brachyramphus marmoratus 1 0 0 1 0 6 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Corvus corax 4 3 NC 4 3 3 Poecile arricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 1 0 0 2 Asserculus sandwichensis 0 0 1 1 0 0 0 Ieucosticre tephrocotts 30 50 NC 50 0 0 Incorpia enricleator 0 0 0 0 0	Haucous-winged Gull	Larus glaucescens	Ξ	œ	NC	=	9	91	91
Uria sp. Uria sp. NC 2 21 69 Cepphus columba 9 3 NC 9 0 6 Brachyramphus marmoratus 1 0 0 1 0 6 Pica hudsonia 4 5 NC 5 4 2 Pica hudsonia 4 3 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Poscille atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 1 0 0 2 Zonotrichia atricapillus 0 0 1 1 1 0 0 Ieucosticte tephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2 0 0 Intercostice tephrocotis 3 1 11 11 1	Uria sp. Uria sp. I 2 NC 2 21 69 Gepphus columba 9 3 NC 9 0 6 Brachyramphus marmoratus 1 0 0 1 0 6 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Poecile arricapillus 3 8 NC 4 2 Passerculus sandwichensis 0 1 1 0 0 2 Zonotrichia arricapilla 0 0 1 1 0 0 0 Ieucosticre tephrocotts 30 50 NC 50 0 0 Initcola enucleator 0 0 2 2 0 0 Intercosticre tephrocotts 3 5 1 1 1 1 Intercosticre tephrocotts 3 5 2 2 <td< td=""><td>Зоттоп тите</td><td>Uria aalge</td><td>0</td><td>0</td><td>NC</td><td>0</td><td>. 7</td><td>0</td><td>7</td></td<>	Зоттоп тите	Uria aalge	0	0	NC	0	. 7	0	7
Cepphus columba 9 3 NC 9 0 6 Brachyramphus marmoratus 1 0 0 1 0 5 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Corvus corax 4 3 NC 4 3 3 Posecile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 1 0 0 2 Zonotrichia atricapillus 0 0 1 1 1 0 0 Ieucosticte tephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2 0 0 Pinicola enucleator 1270 1853 272 87 45 9 Total number of individuals 7 12 57	Cepphus columba 9 3 NC 9 0 6 Brachyramphus marmoratus 1 0 0 1 0 5 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Corvus corax 4 3 NC 4 3 3 Poecile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 1 0 0 2 Zonotrichia atricapillus 0 0 1 1 1 0 0 Ieucosticre tephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2 0 0 Total number of individuals 1270 1853 272 87 45 9 Aspecies were recorded. 7 12 57	Aurre sp.	Uria sp.	-	2	NC	7	21	69	69
Brachyramphus marmoratus 1 0 0 1 0 5 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Poscile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 1 0 0 0 I Lewcosticre tephrocotis 30 50 NC 50 0 0 0 Pinicola enucleator 0 0 2 2 0 0 0 Pinicola enucleator 1270 1853 272 87 313 Total number of individuals 7 12 57 45 9	Brachyramphus marmoratus 1 0 0 1 0 5 Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Poecile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 1 0 0 0 Ieucosticte tephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2 0 0 Total number of individuals 1270 1853 272 87 45 9 A species were recorded. 7 12 57 45 9	igeon Guillemot	Cepphus columba	6	e	NC	6	0	9	9
Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Poscile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 0 0 0 Ieucosticte tephrocotis 30 50 NC 50 0 0 0 Pinicola enucleator 0 0 2 2 0 0 0 Pinicola enucleator 1270 1853 272 2 0 0 0 Total number of individuals 1270 1853 272 87 45 9 Total number of individuals 7 12 57 45 9	Pica hudsonia 4 5 NC 5 4 2 Corvus corax 4 3 NC 4 3 3 Poscile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 0 0 0 I Leucosticre tephrocotis 30 50 NC 50 0 0 0 Pinicola enucleator 0 0 2 2 0 0 0 Total number of individuals 1270 1853 272 87 87 313 7 12 57 57 45 9	farbled Murrelet	Brachyramphus marmoratus	_	0	0	-	0	5	S
Corvus corax 4 3 NC 4 3 3 3 Poscile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 0 0 0 I Leucosticte tephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2 0 0 0 Total number of individuals 1270 1853 272 87 87 313 7 12 57 45 9	Corvus corax 4 3 NC 4 3 3 3 Poscile atricapillus 3 8 NC 8 0 2 Passerculus sandwichensis 0 1 1 0 0 2 Zonotrichia atricapilla 0 0 1 1 0 0 0 I Leucosticre tephrocotis 30 50 NC 50 0 0 Pinicola enucleator 0 0 2 2 0 0 0 Total number of individuals 1270 1853 272 87 87 313 7 12 57 57 45 9	lack-billed Magpie	Pica hudsonia	4	5	NC	5	4	2	4
Poecife atricapillus	Poecile atricapillus	ommon Raven	Corvus corax	4	e	NC	4	3	3	33
Passerculus sandwichensis	Passerculus sandwichensis 0	lack-capped Chickadee	Poecile atricapillus	3	∞	NC	*	0	2	2
Conotrichia atricapilla	Zonotrichia atricapilla	avannah Sparrow	Passerculus sandwichensis	0	9	€	-	0	0	0
Leucosticte tephrocotis 30 50 NC 50 0 0	Leucosticte tephrocotis 30 50 NC 50 0 0	olden-crowned Sparrow-	Zonotrichia atricapilla	0	0)E	_	0	0	0
r 0 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pinicola enucleator 0 0 2 2 0 0 0 Total number of individuals 1270 1853 272 87 313 2 1 11 11 1 1 3 7 12 57 57 45 9 5 5 5 5 5 5 5 6 6 6 6 6 7 7 7 7 7 7 7 8 8 9 9 9 9 9 9 9 9 9 9	hay-crowned Rosy-Finch	Leucosticte tephrocotis	30	90	NC.	20	0	0	0
1270 1853 272 87 313	Total number of individuals 1270 1853 272 87 313 2 1 11 11 11 1 1 1 s or new species were recorded.	ine Grosbeak	Pinicola enucleator	0	0	2	2	0	0	0
2 1 11 11 1 1 1 7 12 57 57 45 9	2 1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Total number of individuals	1270	1853	272		87	313	
7 12 57 57 45 9	s or new species were recorded.	Jarbor Seal		2	-	=	=	-	1	-
A. D. B. D.	Only high counts or new species were recorded.	ea Otter		7	12	22	22	45	6	45
	Unity high counts or new species were recorded.	111								



Red Lines indicate position of surveyor for Incidental Avian Surveys, January 2011, Chignik Lagoon and Chignik Bay.

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