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Memorandum To: Douglas DeMaster, Director, Alaska Fisheries Science Center

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James Balsiger, Director, Alaska Region

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National Marine Mammal Laboratory, Alaska Ecosystem Program

Subject: Results of Steller Sea Lion Surveys in Alaska, June-July 2014

Aerial and ship-based surveys to count Steller sea lion (*Eumetopias jubatus*) pups (~1 mo old) and nonpups (adults and juveniles) on land in Alaska were conducted by the National Marine Mammal Laboratory in June-July 2014. The manned aircraft photographic survey was conducted from 23 June to 9 July, and targeted all known rookeries and haulout sites in the range of the western distinct population segment (DPS) between the Delarof Islands in the Aleutian Islands and the Shumagin Islands in the western Gulf of Alaska (between 179°W and 158°W). Ship-based survey effort, which included the first use of a small unmanned aircraft to survey Steller sea lions, was conducted from 19 June to 3 July in the western portion of the Aleutian Islands from Attu Island eastward to the Delarof Islands (between 172°E and 179°W).

Methods

Aerial surveys to count Steller sea lions are conducted in late June through mid-July starting at least 10 days after the mean birth dates of pups in the survey area (~10 June; Pitcher et al. 2001). The primary objective in 2014 was to survey all terrestrial rookeries and haul-out sites along the Aleutian Island chain (western DPS) of Alaska (Figure 1). A NOAA twin Otter aircraft equipped with three high resolution digital cameras (as in 2009-2013; Fritz et al. 2013) surveyed portions of the central Aleutian Islands, and the eastern Aleutian Islands and western Gulf of Alaska. Ship-based effort on board the USFWS RV *Tiĝlâx* was concentrated in the western and part of the central Aleutian Islands, and included the use of an unoccupied aircraft system (UAS; APH-22 hexacopter).

In 2014, 151 of the 178 targeted sites in the Aleutian Island regions were successfully surveyed, as well as 36 sites in the western Gulf of Alaska region (Figure 2). The twin Otter crew surveyed 165 sites, missing (due to fog) only 3 sites in the central Aleutians and 7 sites in the western Gulf of Alaska. The research vessel crew (including UAS) surveyed 23 sites: 12 sites were counted by observers from either land-based overlooks, inflatable skiffs offshore, or from the research vessel (mean counts of 2 observers are reported), while the UAS was used to survey 11 sites (10 of which were used for trend analysis and are reported here). Of the 21 sites that were not surveyed by the vessel, 20 were skipped as they had no

recent (within the last 10 years) history of sea lion presence during the summer breeding season, while Shemya Island was not surveyed due to vessel time constraints. The rookery at Billings Head on Akun Island was surveyed by taking only oblique images from the occupied aircraft; pup counts are not considered to be reliable from oblique images, thus only non-pups were counted.

Aerial photographs taken by the UAS and occupied aircraft surveys were analyzed as in previous years (see Fritz et al. 2013). Trends in pup and non-pup counts were estimated using agTrend (Johnson and Fritz 2014).

Results

Steller sea lion pups

In 2014, we counted a total of 7,366 live pups on 57 sites (34 rookeries and 23 haul-outs) that had at least one pup (Tables 1 and 2). This included 2,457 pups in the western Gulf of Alaska, 2,581 pups in the eastern Aleutian Islands, 2,153 pups in the central Aleutian Islands, and only 175 pups in the western Aleutian Islands.

Updated trends (Johnson and Fritz 2014) in pup counts in each region and for the western DPS in Alaska as a whole are listed in Table 3 and shown in Figure 3. Pup counts increased at 1.76% y⁻¹ in the western DPS in Alaska overall between 2000 and 2014, essentially unchanged from the 1.75% y⁻¹ estimated for the 2000-2013 period (DeMaster 2014). Trends were different east and west of Samalga Pass: to the east, pup counts increased at >3% y⁻¹, while to the west, counts decreased at -1.66% y⁻¹ with a continued steep decline in the western Aleutian Islands (-8.92% y⁻¹). The estimate for the total pup count in the western DPS in Alaska in 2014 is 12,189 (90% credible interval of 11,318 – 13,064), which is essentially unchanged from the 2013 estimate of 12,316 (DeMaster 2014).

Steller sea lion non-pups

In 2014, we counted a total of 20,984 live non-pups on 187 sites (59 rookeries and 63 haul-outs) (Tables 1 and 2). This included 7,244 non-pups in the western Gulf of Alaska, 7,575 non-pups in the eastern Aleutian Islands, 5,568 non-pups in the central Aleutian Islands, and only 597 non-pups in the western Aleutian Islands.

Updated trends (Johnson and Fritz 2014) in non-pup counts in each region and for the western DPS in Alaska as a whole are listed in Table 3 and shown in Figure 4. Non-pup counts increased at $2.17\% \text{ y}^{-1}$ in the western DPS in Alaska overall between 2000 and 2014, up slightly but not significantly different from the $1.87\% \text{ y}^{-1}$ estimated for the 2000-2013 period (DeMaster 2014). Trends were different east and west of Samalga Pass: to the east, non-pup counts increased at $3.41\% \text{ y}^{-1}$, while to the west, counts decreased at $-1.22\% \text{ y}^{-1}$, with a continued steep decline in the western Aleutian Islands ($-7.10\% \text{ y}^{-1}$). The estimate for the total non-pup count in the western DPS in Alaska is 37,308 (90% credible interval of 34,373 - 40,314), which is essentially unchanged from the 2013 estimate of 36,360 (DeMaster 2014).

Walrus

A group of ~250 walrus was photographed at a known Steller sea lion haulout north of Cape Sarichef Unimak Island (54.59 N, 164.93 W) on 23 June @ 7 PM. No Steller sea lions were observed at the north haulout, though 2 were seen at the Cape Sarichef haulout.

Acknowledgments

We thank David Cowan, David Gothan, Rob Militec and the entire NOAA Aircraft Operations Center (AOC) for their continuing efforts to conduct the aerial survey, and Captain Billy Pepper and the crew of the USFWS RV *Tiĝlâx* for their continued support of our Aleutian Steller sea lion research program. Thank you to NOAA AOC's UAS Section for their part in our successful implementation of UAS. Each survey presents a unique set of logistical, mechanical and weather-related challenges, and because of their dedication, we are able to squeeze in as much survey time as possible. AFSC also greatly appreciates the commitment of Morgan Lynn, Jim Gilpatrick and Wayne Perryman, SWFSC, and Don LeRoi (Aerial Imaging Solutions, Old Lyme, CN) toward making the aerial surveys (unoccupied and occupied) possible, and Bureau of Land Management (DOI) for being the 'eye in the sky' for the occupied flights. The occupied aerial survey crew also acknowledges and greatly appreciates the support provided by the USFWS who provided lodging and transportation in Adak, Peninsula Airways in Dutch Harbor and Sand Point, and the Federal Aviation Administration Anchorage. Joshua Cutler, Lowell Fritz (AFSC-NMML), and Jim Gilpatrick (SWFSC) conducted the Otter survey, while Kathryn Sweeney and Lt. Van Helker piloted the APH-22 hexacopter on its first survey missions. KS and LF analyzed all photographs, and Devin Johnson (AFSC-NMML) assisted with the trend analyses. 'Ground' counts were made by Brian Fadely and Jeremy Sterling.

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Table 1. Counts of Steller sea lion non-pups and live pups (mean of 2 independent counters) on sites surveyed by the twin Otter aircraft in 2014. See Figure 1 for Region and RCA (rookery cluster area) locations. Rookeries are noted with a '1' (≥ 50 pups in any year since 1970) and haulout sites with a '0'.

SITENAME	REGION	RCA	ROOKERY	DATE	NON-PUP	PUP
ATKINS	W GULF	7	1	23-Jun	671	315
BIG KONIUJI	W GULF	7	0	23-Jun	0	0
BIRD	W GULF	7	0	23-Jun	214	4
BIRD (SHUMAGINS)	W GULF	7	0	23-Jun	66	0
CASTLE ROCK	W GULF	7	0	23-Jun	129	4
CATON	W GULF	7	0	23-Jun	410	1
CHERNABURA	W GULF	7	1	23-Jun	798	266
CHERNI	W GULF	7	0	23-Jun	0	0
CLUBBING ROCKS NORTH	W GULF	7	1	23-Jun	426	232
CLUBBING ROCKS SOUTH	W GULF	7	1	23-Jun	907	487
EGG (SAND POINT)	W GULF	7	0	23-Jun	0	0
HAGUE ROCK	W GULF	7	0	23-Jun	0	0
HUNT	W GULF	7	0	23-Jun	0	0
JUDE	W GULF	7	1	23-Jun	572	304
KUPREANOF POINT	W GULF	7	0	23-Jun	212	0
MITROFANIA	W GULF	8	0	23-Jun	288	4
NAGAI/MOUNTAIN POINT	W GULF	7	0	23-Jun	3	0
NAGAI/RK W OF CAPE WEDGE	W GULF	7	0	23-Jun	0	0
OLGA ROCKS NE	W GULF	7	0	23-Jun	94	0
OLGA ROCKS SW	W GULF	7	0	23-Jun	238	5
OMEGA	W GULF	7	0	23-Jun	0	0
PAUL	W GULF	7	0	23-Jun	0	0
PINNACLE ROCK	W GULF	7	1	23-Jun	1152	714
SANAK	W GULF	7	0	23-Jun	0	0
SEA LION ROCKS (SHUMAGINS)	W GULF	7	0	23-Jun	97	0
SIMEONOF	W GULF	7	0	23-Jun	1	0
SOZAVARIKA	W GULF	7	0	23-Jun	0	0
SPITZ	W GULF	8	0	23-Jun	90	0
SUSHILNOI ROCKS	W GULF	7	1	23-Jun	341	62
THE HAYSTACKS	W GULF	7	0	23-Jun	136	1
THE WHALEBACK	W GULF	7	1	23-Jun	190	58
TWINS	W GULF	7	0	23-Jun	0	0
UMGA	W GULF	7	0	23-Jun	0	0
UNGA/ACHEREDIN POINT	W GULF	7	0	23-Jun	107	0
UNGA/CAPE UNGA	W GULF	7	0	23-Jun	0	0
WOSNESENSKI	W GULF	7	0	23-Jun	102	0

Table 1. (continued)

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SITENAME	REGION	RCA	ROOKERY	DATE	NON-PUP	PUP
ADUGAK	E ALEU	6	1	28-Jun	510	294
AIKTAK	E ALEU	6	0	23-Jun	62	7
AKUN/AKUN BAY	E ALEU	6	0	28-Jun	0	0
AKUN/AKUN HEAD	E ALEU	6	0	28-Jun	0	0
AKUN/BILLINGS HEAD*	E ALEU	6	1	28-Jun	558	
AKUN/JACKASS POINT	E ALEU	6	0	28-Jun	0	0
AKUTAN/BATTERY POINT	E ALEU	6	0	23-Jun	0	0
AKUTAN/CAPE MORGAN	E ALEU	6	1	23-Jun	1127	748
AKUTAN/NORTH HEAD	E ALEU	6	0	28-Jun	0	0
AKUTAN/REEF-LAVA	E ALEU	6	0	28-Jun	352	21
AMAK+ROCKS	E ALEU	6	0	23-Jun	592	4
AVATANAK/NE	E ALEU	6	0	28-Jun	0	0
AVATANAK/S	E ALEU	6	0	23-Jun	15	0
AVATANAK/SE	E ALEU	6	0	28-Jun	16	0
BABY	E ALEU	6	0	28-Jun	0	0
BASALT ROCK	E ALEU	6	0	28-Jun	0	0
BOGOSLOF/FIRE ISLAND	E ALEU	6	1	28-Jun	347	337
EGG	E ALEU	6	0	28-Jun	0	0
EGG/SE Tip	E ALEU	6	0	28-Jun	10	0
EGG/West	E ALEU	6	0	28-Jun	0	0
EMERALD	E ALEU	6	0	28-Jun	0	0
INNER SIGNAL	E ALEU	6	0	28-Jun	49	0
KALIGAGAN	E ALEU	6	0	23-Jun	1	0
OGCHUL	E ALEU	6	1	28-Jun	272	130
OLD MAN ROCKS	E ALEU	6	0	28-Jun	15	0
OUTER SIGNAL	E ALEU	6	0	28-Jun	1	0
POLIVNOI ROCK	E ALEU	6	0	28-Jun	126	0
ROCK	E ALEU	7	0	23-Jun	0	0
ROOTOK/EAST	E ALEU	6	0	23-Jun	24	0
ROOTOK/NORTH	E ALEU	6	0	23-Jun	6	0
SAMALGA	E ALEU	6	0	28-Jun	0	0
SEA LION ROCK (AMAK)	E ALEU	6	1	23-Jun	504	185
TANGINAK	E ALEU	6	0	28-Jun	2	0
THE PILLARS	E ALEU	6	0	28-Jun	26	1
TIGALDA/ROCKS NE	E ALEU	6	0	23-Jun	114	0
TIGALDA/SOUTH SIDE	E ALEU	6	0	23-Jun	93	1
UGAMAK/NORTH	E ALEU	6	1	23-Jun	580	402
UGAMAK/ROUND	E ALEU	6	1	23-Jun	244	160
UGAMAK/SW	E ALEU	6	0	23-Jun	0	0
UGAMAK/UGAMAK BAY	E ALEU	6	1	23-Jun	392	242
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^{*} Akun/Billingshead NP count conducted from oblique images. No accurate pup count available.

Table 1. (continued)

UMNAK/AGULIUK POINT	SITENAME	REGION	RCA	ROOKERY	DATE	NON-PUP	PUP
UMNAK/CAPE ASLIK E ALEU 6 0 28-Jun 10 0 UMNAK/CAPE IDAK E ALEU 6 0 28-Jun 0 0 UMNAK/CAPE IDAK E ALEU 6 0 28-Jun 0 0 UMNAK/CAPE UDAK E ALEU 6 0 28-Jun 0 0 UMNALASKA/BISHOP POINT E ALEU 6 0 28-Jun 0 0 UNALASKA/BISHOP POINT E ALEU 6 0 28-Jun 0 0 UNALASKA/BISHOP POINT E ALEU 6 0 28-Jun 0 0 UNALASKA/CAPE STARICHKOF E ALEU 6 0 28-Jun 10 0 UNALASKA/CAPE WISLOW E ALEU 6 0 28-Jun 0 0 UNALASKA/WARUSHIN BAY E ALEU 6 0 28-Jun 0 0 UNALASKA/PRIEST ROCK E ALEU 6 0 28-Jun 10 0 UNIMAK/CAPE LUTKE E AL							
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UNALASKA/KOVRIZHKA E ALEU G O 28-Jun O UNALASKA/MAKUSHIN BAY E ALEU G O 28-Jun 105 O UNALASKA/PRIEST ROCK E ALEU G O 28-Jun 105 O UNALASKA/PRIEST ROCK E ALEU G O 28-Jun 78 1 UNALASKA/SPRAY CAPE E ALEU G O 28-Jun 78 1 UNALASKA/SPRAY CAPE E ALEU G O UNIMAK/CAPE LAZAREF E ALEU G O UNIMAK/CAPE LAZAREF E ALEU G O UNIMAK/CAPE LOTKE E ALEU G O UNIMAK/CAPE SARICHEF E ALEU G O UNIMAK/CAPE SARICHEF E ALEU G O UNIMAK/CAVE POINT E ALEU G O UNIMAK/CAVE POINT E ALEU G O UNIMAK/SENNETT POINT C ALEU ADAK/CAPE KAGIGIKAK C ALEU ADAK/CAPE KAGIGIKAK C ALEU ADAK/CAPE WAKAK C ALEU ADAK/CAPE YAKAK C ALEU ADAK ADAK CALEU ADAK CAL	•						
UNALASKA/MAKUSHIN BAY UNALASKA/PRIEST ROCK E ALEU 6 0 23-Jun 105 0 UNALASKA/PRIEST ROCK E ALEU 6 0 28-Jun 78 1 UNALASKA/SPRAY CAPE E ALEU 6 0 28-Jun 78 1 UNALASKA/SPRAY CAPE E ALEU 6 0 28-Jun 6 0 UNIMAK/CAPE LAZAREF E ALEU 6 0 23-Jun 0 0 UNIMAK/CAPE LUTKE E ALEU 6 0 23-Jun 0 0 UNIMAK/CAPE SARICHEF E ALEU 6 0 23-Jun 0 0 UNIMAK/CAPE SARICHEF E ALEU 6 0 23-Jun 0 0 UNIMAK/CAVE POINT E ALEU 6 0 23-Jun 594 1 UNIMAK/OSSENOF POINT E ALEU 6 0 23-Jun 0 0 UNIMAK/SSENNETT POINT E ALEU 6 0 23-Jun 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 0 0 UNIMAK/SENNETT POINT C ALEU 4 0 30-Jun 62 0 ADAK/CAPE KAGIGIKAK C ALEU 4 0 30-Jun 62 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 0 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 0 0 ADAK/CAPE POINT C ALEU 4 0 30-Jun 10 0 ADAK/CAPE POINT C ALEU 4 0 30-Jun 10 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 10 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 14 0 AMATIGNAK/WEST C ALEU 5 0 9-Jul 19 2 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 147 34	•						
UNALASKA/PRIEST ROCK	•					_	
UNALASKA/SPRAY CAPE	•						
UNALASKA/WHALEBONE CAPE	•						
UNIMAK/CAPE LAZAREF	•						
UNIMAK/CAPE LUTKE	•						
UNIMAK/CAPE SARICHEF	·						
UNIMAK/CAVE POINT	·						
UNIMAK/OKSENOF POINT E ALEU 6 0 23-Jun 594 1 UNIMAK/SCOTCH CAP E ALEU 6 0 23-Jun 0 0 UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 VSEVIDOF E ALEU 6 0 28-Jun 113 0 ADAK/ARGONNE POINT C ALEU 4 0 30-Jun 0 0 ADAK/CAPE KAGIGIKAK C ALEU 4 0 30-Jun 36 4 ADAK/CAPE MOFFET C ALEU 4 0 30-Jun 0 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 21 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 0 0 AMATIGNAK/KNOB POINT C ALEU	·						
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UNIMAK/SENNETT POINT E ALEU 6 0 23-Jun 0 0 VSEVIDOF E ALEU 6 0 28-Jun 113 0 ADAK/ARGONNE POINT C ALEU 4 0 30-Jun 0 0 ADAK/CAPE KAGIGIKAK C ALEU 4 0 30-Jun 36 4 ADAK/CAPE MOFFET C ALEU 4 0 30-Jun 0 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 21 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 0 0 AMATIGNAK/KNOB POINT C ALEU 5 0 9-Jul 45 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 29 0 AMLIA/CAPE MISTY C ALEU 5	·						
VSEVIDOF E ALEU 6 0 28-Jun 113 0 ADAK/ARGONNE POINT C ALEU 4 0 30-Jun 0 0 ADAK/CAPE KAGIGIKAK C ALEU 4 0 30-Jun 36 4 ADAK/CAPE MOFFET C ALEU 4 0 30-Jun 0 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 62 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 0 0 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5	·						
ADAK/CAPE KAGIGIKAK C ALEU 4 0 30-Jun 36 4 ADAK/CAPE MOFFET C ALEU 4 0 30-Jun 0 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 21 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 0 0 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	·					113	0
ADAK/CAPE KAGIGIKAK C ALEU 4 0 30-Jun 36 4 ADAK/CAPE MOFFET C ALEU 4 0 30-Jun 0 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 21 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 0 0 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34							
ADAK/CAPE MOFFET C ALEU 4 0 30-Jun 0 0 ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 21 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 466 250 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	ADAK/ARGONNE POINT	C ALEU	4	0	30-Jun	0	0
ADAK/CAPE YAKAK C ALEU 4 0 30-Jun 62 0 ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 21 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 466 250 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	ADAK/CAPE KAGIGIKAK	C ALEU	4	0	30-Jun	36	4
ADAK/CRONE ISLAND C ALEU 4 0 30-Jun 21 0 ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 466 250 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	ADAK/CAPE MOFFET	C ALEU	4	0	30-Jun	0	0
ADAK/HEAD ROCK (KULUK BAY) C ALEU 4 0 30-Jun 0 0 ADAK/LAKE POINT C ALEU 4 1 30-Jun 466 250 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 32 0 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	ADAK/CAPE YAKAK	C ALEU	4	0	30-Jun	62	0
ADAK/LAKE POINT C ALEU 4 1 30-Jun 466 250 AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 32 0 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	ADAK/CRONE ISLAND	C ALEU	4	0	30-Jun	21	0
AGLIGADAK C ALEU 5 0 9-Jul 45 0 AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 32 0 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	ADAK/HEAD ROCK (KULUK BAY)	C ALEU	4	0	30-Jun	0	0
AMATIGNAK/KNOB POINT C ALEU 3 0 9-Jul 4 0 AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 32 0 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	ADAK/LAKE POINT	C ALEU	4	1	30-Jun	466	250
AMATIGNAK/NITROF POINT C ALEU 3 0 9-Jul 29 0 AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 32 0 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	AGLIGADAK	C ALEU	5	0	9-Jul	45	0
AMATIGNAK/WEST C ALEU 3 0 9-Jul 0 0 AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 32 0 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	AMATIGNAK/KNOB POINT	C ALEU	3	0	9-Jul	4	0
AMLIA/CAPE MISTY C ALEU 5 0 9-Jul 32 0 AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	AMATIGNAK/NITROF POINT	C ALEU	3	0	9-Jul	29	0
AMLIA/EAST CAPE C ALEU 5 0 9-Jul 19 2 AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	AMATIGNAK/WEST	C ALEU	3	0	9-Jul	0	0
AMLIA/SVIECH. HARBOR C ALEU 5 0 9-Jul 147 34	AMLIA/CAPE MISTY	C ALEU	5	0	9-Jul	32	0
	AMLIA/EAST CAPE	C ALEU	5	0	9-Jul	19	2
AMTAGIS C ALEU 4 0 9-Jul 0 0	AMLIA/SVIECH. HARBOR	C ALEU	5	0	9-Jul	147	34
	AMTAGIS	C ALEU	4	0	9-Jul	0	0

Table 1. (continued)

ANAGAKSIK C ALEU ATKA/CAPE KOROVIN C ALEU ATKA/NORTH CAPE ATKA	SITENAME	REGION	RCA	ROOKERY	DATE	NON-PUP	PUP
ATKA/NORTH CAPE C ALEU 4 0 9-Jul 113 0 BOBROF C ALEU 3 0 30-Jun 0 0 CARLISLE C ALEU 5 0 28-Jun 20 0 CHUGINADAK C ALEU 4 0 9-Jul 29 0 FENIMORE C ALEU 4 0 9-Jul 58 0 GARELOI C ALEU 3 0 30-Jun 0 0 GREAT SITKIN C ALEU 3 1 9-Jul 44 0 9-Jul 0 0 HERBERT C ALEU 5 0 28-Jun 114 0	ANAGAKSIK	C ALEU	4	0	9-Jul	29	0
BOBROF C ALEU 3 0 30-Jun 0 0 CARLISLE C ALEU 5 0 28-Jun 20 0 CHUGINADAK C ALEU 6 0 28-Jun 112 1 CHUGUL C ALEU 4 0 9-Jul 58 0 FENIMORE C ALEU 4 0 9-Jul 58 0 GARELOI C ALEU 3 0 30-Jun 0 0 GRAMP ROCK C ALEU 3 1 9-Jul 0 0 GREAT SITKIN C ALEU 4 0 9-Jul 0 0 HERBERT C ALEU 4 0 9-Jul 0 0 IKIGINAK C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 3 0 9-Jul 8 0 KAGAALSKA C ALEU 3 0 30-Jun 15 0 <	ATKA/CAPE KOROVIN	C ALEU	4	0	9-Jul	7	0
CARLISLE C ALEU 5 0 28-Jun 20 0 CHUGINADAK C ALEU 6 0 28-Jun 112 1 CHUGUL C ALEU 4 0 9-Jul 29 0 FENIMORE C ALEU 4 0 9-Jul 58 0 GARELOI C ALEU 3 1 9-Jul 448 236 GRAMP ROCK C ALEU 4 0 9-Jul 0 0 GREAT SITKIN C ALEU 4 0 9-Jul 0 0 HERBERT C ALEU 4 0 9-Jul 0 0 IGITKIN/SW POINT C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 4 0 9-Jul 0 0 KAGALASKA C ALEU 3 0 30-Jun 15 0 KAGAGAMIL C ALEU 3 0 30-Jun 0 0	ATKA/NORTH CAPE	C ALEU	4	0	9-Jul	113	0
CHUGINADAK C ALEU 6 0 28-Jun 112 1 CHUGUL C ALEU 4 0 9-Jul 29 0 FENIMORE C ALEU 4 0 9-Jul 58 0 GRARLOI C ALEU 3 0 30-Jun 0 0 GRAMP ROCK C ALEU 3 1 9-Jul 44 0 9-Jul 0 0 GREAT SITKIN C ALEU 4 0 9-Jul 0 0 0 114 0 0 0 0 114 0	BOBROF	C ALEU	3	0	30-Jun	0	0
CHUGUL C ALEU 4 0 9-Jul 29 0 FENIMORE C ALEU 4 0 9-Jul 58 0 GARELOI C ALEU 3 0 30-Jun 0 0 GRAMP ROCK C ALEU 3 1 9-Jul 44 236 GREAT SITKIN C ALEU 4 0 9-Jul 0 0 HERBERT C ALEU 5 0 28-Jun 114 0 IGITKIN/SW POINT C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 3 0 9-Jul 8 0 KAGALASKA C ALEU 3 0 9-Jul 8 0 KARAGA/CAPE CHUNU C ALEU 3 0 30-Jun 1 0 0 KANAGA/SHIP ROCK C ALEU 3 0 30-Jun 0	CARLISLE	C ALEU	5	0	28-Jun	20	0
FENIMORE	CHUGINADAK	C ALEU	6	0	28-Jun	112	1
GARELOI C ALEU 3 0 30-Jun 0 0 GRAMP ROCK C ALEU 3 1 9-Jul 448 236 GREAT SITKIN C ALEU 4 0 9-Jul 0 0 HERBERT C ALEU 5 0 28-Jun 114 0 IGITKIN/SW POINT C ALEU 4 0 9-Jul 0 0 IKIGINAK C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 3 0 9-Jul 8 0 KAGALASKA C ALEU 3 0 9-Jul 8 0 KAGAGAMIL C ALEU 3 0 30-Jun 15 0 KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 0 0 KAYALGA C ALEU 3 1 30-Jun 9 0	CHUGUL	C ALEU	4	0	9-Jul	29	0
GRAMP ROCK C ALEU 3 1 9-Jul 448 236 GREAT SITKIN C ALEU 4 0 9-Jul 0 0 HERBERT C ALEU 5 0 28-Jun 114 0 IGITKIN/SW POINT C ALEU 4 0 9-Jul 0 0 IKIGINAK C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 3 0 9-Jul 8 0 KAGALASKA C ALEU 6 0 28-Jun 13 0 KAGAMIL C ALEU 3 0 30-Jun 15 0 KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 0 9-Jul <td< td=""><td>FENIMORE</td><td>C ALEU</td><td>4</td><td>0</td><td>9-Jul</td><td>58</td><td>0</td></td<>	FENIMORE	C ALEU	4	0	9-Jul	58	0
GREAT SITKIN C ALEU 4 0 9-Jul 0 0 HERBERT C ALEU 5 0 28-Jun 114 0 IGITKIN/SW POINT C ALEU 4 0 9-Jul 0 0 IKIGINAK C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 3 0 9-Jul 8 0 KAGALASKA C ALEU 4 0 30-Jun 15 0 KAGAMIL C ALEU 6 0 28-Jun 13 0 KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 0 0 KASATOCHI/NORTH POINT C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 0 9-Jul	GARELOI	C ALEU	3	0	30-Jun	0	0
HERBERT	GRAMP ROCK	C ALEU	3	1	9-Jul	448	236
IGITKIN/SW POINT	GREAT SITKIN	C ALEU	4	0	9-Jul	0	0
IKIGINAK C ALEU 4 0 9-Jul 0 0 ILAK C ALEU 3 0 9-Jul 8 0 KAGALASKA C ALEU 4 0 30-Jun 15 0 KAGAMIL C ALEU 6 0 28-Jun 13 0 KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/N CAPE C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 9-Jul <td>HERBERT</td> <td>C ALEU</td> <td>5</td> <td>0</td> <td>28-Jun</td> <td>114</td> <td>0</td>	HERBERT	C ALEU	5	0	28-Jun	114	0
ILAK C ALEU 3 0 9-Jul 8 0 KAGALASKA C ALEU 4 0 30-Jun 15 0 KAGAMIL C ALEU 6 0 28-Jun 13 0 KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/N CAPE C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul </td <td>IGITKIN/SW POINT</td> <td>C ALEU</td> <td>4</td> <td>0</td> <td>9-Jul</td> <td>0</td> <td>0</td>	IGITKIN/SW POINT	C ALEU	4	0	9-Jul	0	0
KAGALASKA C ALEU 4 0 30-Jun 15 0 KAGAMIL C ALEU 6 0 28-Jun 13 0 KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/N CAPE C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 KONIUJI/NORTH POINT C ALEU 4 0 30-Jun 5 0 GELUGA C ALEU 4 0 9-Jul 0 0 SAGCHUDAK C ALEU 4 0 9-Jul<	IKIGINAK	C ALEU	4	0	9-Jul	0	0
KAGAMIL C ALEU 6 0 28-Jun 13 0 KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 5 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 5 0 9-Jul	ILAK	C ALEU	3	0	9-Jul	8	0
KANAGA/CAPE CHUNU C ALEU 3 0 30-Jun 0 0 KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/N CAPE C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 22 0 OGLODAK C ALEU 4 0 9-Jul 0 0 SAGCHUDAK C ALEU 5 0	KAGALASKA	C ALEU	4	0	30-Jun	15	0
KANAGA/CAPE MIGA C ALEU 3 0 30-Jun 0 0 KANAGA/N CAPE C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 5 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul </td <td>KAGAMIL</td> <td>C ALEU</td> <td>6</td> <td>0</td> <td>28-Jun</td> <td>13</td> <td>0</td>	KAGAMIL	C ALEU	6	0	28-Jun	13	0
KANAGA/N CAPE C ALEU 3 0 30-Jun 0 0 KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 5 0 OGLODAK C ALEU 3 0 30-Jun 22 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul	KANAGA/CAPE CHUNU	C ALEU	3	0	30-Jun	0	0
KANAGA/SHIP ROCK C ALEU 3 1 30-Jun 350 207 KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 5 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SAGIGIK C ALEU 5 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 11 0 0 SEGUAM/LAVA COVE C ALEU 5 0	KANAGA/CAPE MIGA	C ALEU	3	0	30-Jun	0	0
KASATOCHI/NORTH POINT C ALEU 4 1 9-Jul 587 376 KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 5 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 5 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul	KANAGA/N CAPE	C ALEU	3	0	30-Jun	0	0
KAVALGA C ALEU 3 0 30-Jun 9 0 KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 22 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 694 530 SEGUAM/SADDLERIDGE C ALEU 5 0 9-Jul	KANAGA/SHIP ROCK	C ALEU	3	1	30-Jun	350	207
KONIUJI/NORTH POINT C ALEU 4 0 9-Jul 0 0 LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 22 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul <td>KASATOCHI/NORTH POINT</td> <td>C ALEU</td> <td>4</td> <td>1</td> <td>9-Jul</td> <td>587</td> <td>376</td>	KASATOCHI/NORTH POINT	C ALEU	4	1	9-Jul	587	376
LITTLE TANAGA STRAIT C ALEU 4 0 30-Jun 5 0 OGLIUGA C ALEU 3 0 30-Jun 22 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 0 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul	KAVALGA	C ALEU	3	0	30-Jun	9	0
OGLIUGA C ALEU 3 0 30-Jun 22 0 OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 0 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul	KONIUJI/NORTH POINT	C ALEU	4	0	9-Jul	0	0
OGLODAK C ALEU 4 0 9-Jul 65 0 SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 0 9-Jul 694 530 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	LITTLE TANAGA STRAIT	C ALEU	4	0	30-Jun	5	0
SAGCHUDAK C ALEU 4 0 9-Jul 0 0 SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	OGLIUGA	C ALEU	3	0	30-Jun	22	0
SAGIGIK C ALEU 5 0 9-Jul 52 0 SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	OGLODAK	C ALEU	4	0	9-Jul	65	0
SALT C ALEU 4 0 9-Jul 14 0 SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SAGCHUDAK	C ALEU	4	0	9-Jul	0	0
SEGUAM/FINCH POINT C ALEU 5 0 9-Jul 112 2 SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SAGIGIK	C ALEU	5	0	9-Jul	52	0
SEGUAM/LAVA COVE C ALEU 5 0 9-Jul 20 0 SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SALT	C ALEU	4	0	9-Jul	14	0
SEGUAM/LAVA POINT C ALEU 5 0 9-Jul 0 0 SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SEGUAM/FINCH POINT	C ALEU	5	0	9-Jul	112	2
SEGUAM/MOUNDHILL POINT C ALEU 5 0 9-Jul 33 0 SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SEGUAM/LAVA COVE	C ALEU	5	0	9-Jul	20	0
SEGUAM/SADDLERIDGE C ALEU 5 1 9-Jul 694 530 SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SEGUAM/LAVA POINT	C ALEU	5	0	9-Jul	0	0
SEGUAM/SW RIP C ALEU 5 0 9-Jul 64 0 SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SEGUAM/MOUNDHILL POINT	C ALEU	5	0	9-Jul	33	0
SEGUAM/TURF POINT C ALEU 5 0 9-Jul 32 0 SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SEGUAM/SADDLERIDGE	C ALEU	5	1	9-Jul	694	530
SEGUAM/WHARF POINT C ALEU 5 0 9-Jul 2 0	SEGUAM/SW RIP	C ALEU	5	0	9-Jul	64	0
	SEGUAM/TURF POINT	C ALEU	5	0	9-Jul	32	0
SILAK C ALEU 4 0 30-Jun 44 0	SEGUAM/WHARF POINT	C ALEU	5	0	9-Jul	2	0
	SILAK	C ALEU	4	0	30-Jun	44	0
SKAGUL/S. POINT C ALEU 3 0 30-Jun 9 0	SKAGUL/S. POINT	C ALEU	3	0	30-Jun	9	0
TAG C ALEU 3 1 9-Jul 174 104	TAG	C ALEU	3	1	9-Jul	174	104

Table 1. (continued)

SITENAME	REGION	RCA	ROOKERY	DATE	NON-PUP	PUP
TAGALAK	C ALEU	4	0	9-Jul	183	12
TANADAK (AMLIA)	C ALEU	5	0	9-Jul	0	0
TANAGA/BUMPY POINT	C ALEU	3	0	30-Jun	0	0
TANAGA/CAPE SASMIK	C ALEU	3	0	30-Jun	6	0
UGIDAK	C ALEU	3	0	9-Jul	4	0
ULAK/HASGOX POINT	C ALEU	3	1	9-Jul	409	173
ULIAGA	C ALEU	6	0	28-Jun	164	1
UNALGA+DINKUM ROCKS	C ALEU	3	0	30-Jun	0	0

Table 2. Counts of Steller sea lion non-pups (NP) and pups collected during 2014 ship-based surveys of rookeries and haul-out sites. Counts conducted from cliff tops, inflatable skiffs offshore, or from the research vessel are indicated as a "ground" source and sites surveyed with the UAS are labeled as "APH-22." Rookeries are noted with a '1' (≥ 50 pups in any year since 1970) and haulout sites with a '0'.

SITENAME	Region	RCA	Rookery	DATE	SOURCE	NP	Pup
AMCHITKA/COLUMN ROCK	C ALEU	2	1	28-Jun	GROUND	37	7
AMCHITKA/EAST CAPE	C ALEU	2	0	28-Jun	APH-22	146	9
AYUGADAK	C ALEU	2	1	28-Jun	APH-22	102	42
KISKA/CAPE ST STEPHEN	C ALEU	2	1	27-Jun	APH-22	182	71
KISKA/GERTRUDE-BUKHTI	C ALEU	2	0	27-Jun	GROUND	6	0
KISKA/LIEF COVE	C ALEU	2	1	26-Jun	APH-22	128	84
KISKA/SIRIUS POINT	C ALEU	2	0	21-Jun	GROUND	0	0
KISKA/SOBAKA-VEGA	C ALEU	2	0	27-Jun	GROUND	30	0
KISKA/WOLF POINT	C ALEU	2	0	21-Jun	GROUND	4	0
SEMISOPOCHNOI/PETREL	C ALEU	2	0	21-Jun	GROUND	3	0
SEMISOPOCHNOI/POCHNOI	C ALEU	2	0	21-Jun	APH-22	49	8
SEMISOPOCHNOI/SW KNOB	C ALEU	2	0	21-Jun	GROUND	0	0
SEMISOPOCHNOI/TUMAN POINT	C ALEU	2	0	21-Jun	GROUND	0	0
AGATTU/CAPE SABAK	W ALEU	1	1	25-Jun	APH-22	137	44
AGATTU/GILLON POINT	W ALEU	1	1	24-Jun	APH-22	158	80
ALAID	W ALEU	1	0	22-Jun	APH-22	91	16
ATTU/CAPE WRANGELL	W ALEU	1	1	23-Jun	APH-22	141	34
ATTU/CHICHAGOF POINT	W ALEU	1	0	25-Jun	APH-22	64	0
ATTU/CHIRIKOF POINT	W ALEU	1	0	25-Jun	GROUND	2	1
BULDIR/NW ROCKS	W ALEU	1	1	22-Jun	GROUND	4	0
BULDIR/ROOKERY	W ALEU	1	1	22-Jun	GROUND	0	0
INGENSTREM ROCKS	W ALEU	1	0	22-Jun	GROUND	0	0

Table 3. Annual rates of change (% y^{-1} with \pm 95% credible intervals) in counts of Steller sea lion pups and non-pups by region, 2000-2014.

		Pups			Non-Pups			
Region	Rate	-95% CI	+95% CI	Rate	-95% CI	+95% CI		
Eastern Gulf of Alaska	4.44	2.36	6.42	5.22	2.48	8.06		
Central Gulf of Alaska	2.14	0.45	3.61	2.61	1.46	3.76		
E/C Gulf combined	2.83	1.58	4.07	3.67	2.36	5.08		
Western Gulf of Alaska	3.27	1.86	4.72	4.09	2.77	5.33		
Eastern Aleutian Is.	3.55	2.43	4.62	2.30	0.98	3.67		
East of Samalga Pass	3.18	2.44	3.91	3.41	2.59	4.15		
Central Aleutian Is.	-0.64	-1.56	0.23	-0.27	-1.17	0.61		
Western Aleutian Is.	-8.92	-10.14	-7.53	-7.10	-8.66	-5.57		
W of Samalga Pass	-1.66	-2.46	-0.86	-1.22	-2.02	-0.4		
Bering Sea (Walrus I.)	-7.17	-10.89	-3.00					
Western DPS in AK	1.76	1.16	2.31	2.17	1.54	2.76		

Figure 1. Terrestrial rookeries and haul-out sites in the survey area of the Aleutian Islands and western Gulf of Alaska in the range of the western distinct population segment (DPS) of Steller sea lion in Alaska. Survey regions and rookery cluster areas (RCAs) are depicted.

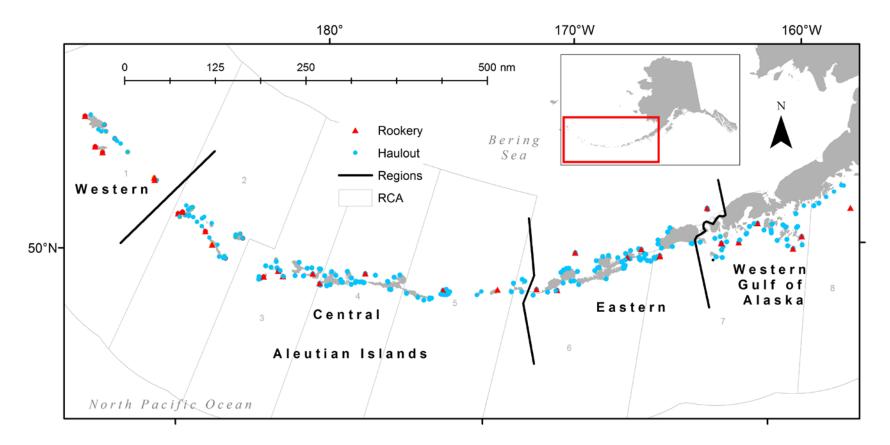


Figure 2. Steller sea lion terrestrial sites where pup and non-pup were counted during 2014 ship-based and aerial surveys in the eastern, central, and western Aleutian Islands, and western Gulf of Alaska regions.

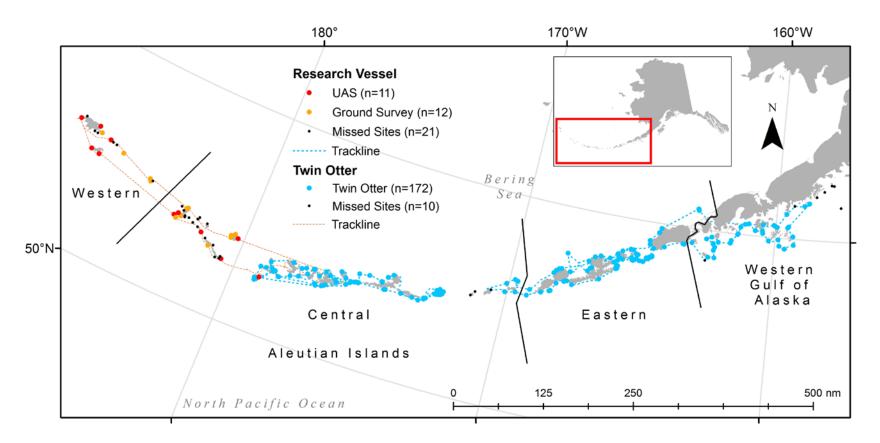


Figure 3. Estimated counts of western Steller sea lion pups by region in Alaska using agTrend (Johnson and Fritz 2014), 1990-2014. ALEU=Aleutian Islands; GULF=Gulf of Alaska; BERING=Walrus Is (Pribilofs). Blue line=average trend 2000-2014. Grey zone=90% credible interval of estimated realized count. Vertical black lines=90% credible interval on estimated actual count.

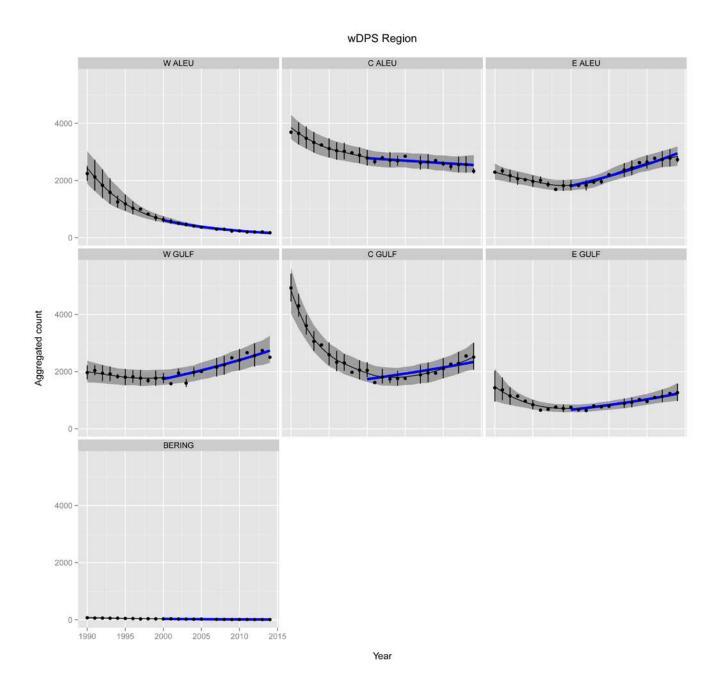


Figure 4. Estimated counts of western Steller sea lion non-pups by region in Alaska using agTrend (Johnson and Fritz 2014), 1990-2014. ALEU=Aleutian Islands; GULF=Gulf of Alaska. Blue line=average trend 2000-2014. Grey zone=90% credible interval of estimated realized count. Vertical black lines=90% credible interval on estimated actual count.

