

TITLE: WALRUS ISLANDS STATE GAME SANCTUARY ANNUAL REPORT

REPORT PERIOD: 01 JANUARY - 31 AUGUST 1993

PROJECT LOCATION: GMU 17A (Northern Bristol Bay)

PROJECT GOALS:

A management plan for the Walrus Islands State Game Sanctuary was drafted in October 1992. The plan has not been finalized and no formal management goals have been developed by the Department. In the interim, the management goals for the Sanctuary are to:

- 1) protect walruses and other wildlife within the Sanctuary;
- 2) provide an opportunity for scientific and educational study of walruses; and,
- 3) provide an opportunity to view, photograph, and enjoy walruses.

WORK ACCOMPLISHED DURING THE PROJECT REPORT PERIOD:

Two wildlife technicians, Kiana Koenen from Alaska Department of Fish and Game (ADFG) and Susan Kruse from U.S. Fish and Wildlife (USFWS), were stationed on Round Island from 4 May until 17 August 1993. Their mutual duties included: patrolling the island for access violations, daily walrus counts, walrus disturbance monitoring/research, sea lion counts, visitor services, sanctuary management, and facility/trail upkeep. Staff field tested a remote phone system in cooperation with Nushagak Telephone Company. A weather station, consisting of a barometer, high/low thermometer, wind and rain gauges, was installed and activated. Basic medical supplies were inventoried and supplemented with major items including a Hare traction splint, backboard, cervical collars, and a portable oxygen delivery system.

PROGRESS TOWARDS MEETING GOALS:

Field Preparation/Training

Prior to the onset of the field season in May, Round Island field staff attended training seminars in First Aid and CPR Training (8 hr), Marine Survival Training (8 hr), and Small Boat Maintenance and Repair (8 hr). In addition to this training, Susan Kruse (USFWS) attended a small boat handling course (16 hr).

Cooperative Agreement

A cooperative agreement between ADFG, Division of Wildlife Conservation and USFWS, Marine Mammals Management, for mutual support of the Walrus Islands Sanctuary visitor program was signed

and implemented in spring of 1993. As a result of this agreement, USFWS provided 1 field technician and agreed to pay 50% of the transportation and supply costs for the program. ADFG and FWS field staff shared responsibilities for all sanctuary management (ADFG lead) and research (USFWS lead) activities on the island.

Cooperative Research

Round Island Walrus Behavior Study

This year in addition to continued walrus and sea lion censuses on Round Island a cooperative USFWS/ADFG research program was initiated to examine the disturbance responses of walruses to human activities. Results of the first year of the study were summarized in a report to USFWS.

National Landmarks Heritage Program

Walrus Islands State Game Sanctuary was registered in 1968 as a National Natural Landmark and became part of the National Landmarks Heritage program that is operated by the National Park Service (NPS). A representative from NPS, Mark Schroeder, visited the island in July 1993 to evaluate island resources with regard to this program. Several potential projects were discussed, including a sanctuary-wide botanical inventory and a seabird colony monitoring project. The feasibility of these projects are being reviewed and evaluated by ADFG and NPS biologists.

Airspace Policy

An airspace policy for aircraft activities near Round Island was drafted by the Dillingham area wildlife biologist. The airspace restriction policy was finalized on 8 February 1993 and distributed to appropriate agencies. It is intended to clarify the current regulations and regulating authorities and provide a consistent means of enforcement. A copy of this policy is available in the 1993 Round Island Report to the File.

Recommended airspace restrictions include a zone within 3-miles of Round Island, where pilots will be requested to stay at least 5000' Above Ground Level (AGL) from 1 April to 30 November.

A standardized airspace violation report form was designed to provide a concise means of reporting all airspace violations. This report form is provided to all personnel stationed at Round Island.

ENFORCEMENT:

Airspace

Four airspace violations were documented by staff. Two of these were U.S. Coast Guard overflights and 2 were small private aircraft. The Coast Guard was informed of airspace restriction policies and they immediately complied with our requests. One of the civilian overflights was documented and turned over to USFWS-Law Enforcement and is under investigation. The other lacked

sufficient evidence for further investigation.

Fisheries

During the 1993 season the herring spawn occurred earlier than usual, and therefore there were relatively few herring fishing boats in the area. There was also little salmon fishing near Round Island. The yellowfin sole fishery and associated vessels were out of the area by late May.

A total of 11 radio contacts were made by Round Island staff with vessels observed entering closed areas near the island. These included 1 yellowfin sole vessel within the 12-mile limit and 10 vessels within the 3-mile limit. All contacts ended with the vessels leaving the closed area without incident.

Trespassing and Discharge of Firearms

On 21 June 1993, the ADFG Dillingham area biologist witnessed 2 people, in a small skiff, approach and land at East Main Beach. One of the persons shot at and wounded at least 1 walrus in a group of approximately 600 hauled out there. No walrus deaths were witnessed. State and Federal law enforcement authorities were notified. ~~Subsequent investigations lead to citations being issued~~ to 2 villagers from Togiak for access without a permit and discharge of firearms within the Sanctuary. The cases are pending.

VISITOR PROGRAM:

In 1993, the Sanctuary received visitors from Alaska and throughout the United States and from the countries of Japan, France, and Germany. At least 4 people were visiting the island for the second time.

The cumulative total for all visitors (day-use and campers) in 1993 was 119. The number of visitors who camped on the island in 1993 (74) was similar to 1992 (80). However, the number of day-use visitors in 1993 (45) was considerably lower than in 1992 (116). This drop was primarily due to an early herring run that left few fishing vessels in the area when staff arrived at the island in May. In 1992, the herring run was late and crew members from fishing vessels waiting in the area resulted in 111 day-use visitors in May compared to 27 day-use visitors in May 1993.

WILDLIFE RESEARCH:

Walrus and sea lion counts were continued on Round Island this season. In addition to these censuses a research program was initiated to examine the disturbance responses of walrus to human activity.

WALRUS:

Counts Two established methods of counting walrus hauled out on Round Island beaches were used this season. These included daily east side land-based counts, and total island counts conducted from a skiff.

Daily Counts Beaches on the East side of the island are accessible for viewing from land, therefore, this was the primary count type used to record walrus numbers from 4 May through 14 August 1993. Counts of walrus on the beach and in near-shore waters (within 15 meters of shore) were made within 2 hours of the most convenient low tide. A daily walrus count total was derived by adding beach and near-shore counts together.

Walrus numbers peaked earlier and higher in 1993 than in 1992. A peak of 5104 was counted on 2 June 1993, compared to 4210 on 12 July 1992. Specific count data is available in the 1993 Round Island Report to the File.

Total island Counts Total island counts were conducted by observing haul-out beaches with binoculars from a skiff and counting walrus. The entire island was surveyed from approximately 100 meters off-shore when weather and time permitted. Six total island walrus counts were conducted between 7 May through 17 July.

Unusual observations: On 25 June a walrus with 3 tusks (2 tusks on the right and 1 on the left) was observed on First Beach.

Walrus carcass sightings: There were at least 12 carcasses on beaches and 3 to 4 floating carcasses sighted during this field season. All except 1 were believed to possess at least 1 tusk. One headless carcass was seen floating near East Main Beach Spit during the first week of the season.

Ivory Collection: Island staff recovered 7 tusks from walrus carcasses found on Round Island beaches.

NORTHERN SEA LIONS:

Counts Weekly sea lion counts were conducted at East Cape/Third Beach. The peak sea lion count was 369 on 15 May. This count was similar to the peak for 1992 of 401 on 16 May. As noted in past years, many of the sea lions had moved off the main section of Third Beach by early June. They either left the area, or moved below cliffs along East Cape where it was difficult to count them due to cliff overhangs and terrain. The most consistently used haulout this season was a rock ledge below the Third Beach observation point. This area was used by approximately 20 to 30 sea lions (comprised of 1 to 2 large males and an undetermined mixture of adult females, yearlings, and sub adults). Specific

count data is available in the 1993 Round Island Report to the File.

Observations: Staff searched for flipper tags and recorded any unusual observations during survey. No flipper tags were sighted. No new pups were seen, although two females were observed nursing juveniles. One dead animal was seen on Third Beach in May. An adult female was sighted on several occasions with a 7-10 cm wide laceration and something white collaring her neck. She had a juvenile at her side that was observed making unsuccessful attempts to nurse. In late June a fight, resulting in injuries, was observed between two adult males attempting to haul out on the rock ledge below the Third Beach observation point.

OTHER WILDLIFE:

Other wildlife, including red foxes, birds, rodents, and additional marine mammals, were observed opportunistically and included in daily logs.

~~**Red Fox**~~ Visitors and staff confirmed at least 6 fox kits at East Cape den. Staff identified at least five individual adults and subadult foxes.

Birds First sightings of birds were recorded in the daily log along with first eggs and chicks observed for each species. Pelagic cormorants at East Main observation point were on eggs 11 May. Chicks were visible on 13 June. Black Legged Kittiwakes were on eggs by 1 June. The first chicks were visible on 21 June and fledgling occurred by 3 August. Common Murres eggs were visible by 11 June. Murre chicks were seen on 7 July and chicks fledged by 9 August. On 16 June, a bald eagle nest with 3 eaglets was observed in the SW corner on top of the island. Two adults were present.

Seabird nest productivity plots were not monitored this season. However, it appeared through casual observations that common murres did not have as great of nesting success as black-legged kittiwakes and cormorants at breeding sites on the east side of the island. Few Common Murre eggs and live chicks were seen compared to black-legged kittiwakes and pelagic cormorants nesting in the same location.

Ticks Ticks were found on several tundra vole carcasses and on a walrus carcass. Two tick infested tundra vole carcasses were collected by staff and sent to the ADFG Regional Office in Anchorage for analysis by staff biologist and veterinarian, Bill Taylor. Taylor tentatively identified the ticks as *Ixodis angustus*, a common tick found on voles and red squirrels throughout most of southern Alaska. He noted that they are not usually noticed until the vole populations peak, at which time they become quite common and may be the cause of death to some juvenile voles.

The tick specimens were forwarded to tick identification expert, Nixon Wilson, at the University of Northern Iowa, for positive identification.

Ticks specimens collected from a relatively fresh walrus carcass were sent to Julie Clark, School of Veterinary Medicine, Washington State University, Pullman, Washington for identification. Initial analysis did not provide identification; additional attempts at identification are pending.

Other Marine Mammals Other marine mammals observed passing the island this summer included: killer whales, gray whales, 1 Minke whale and 1 harbor porpoise. Three gray whales were observed June 14. One Minke whale on 14 May. One harbor porpoise was observed on 9 August. Campers arriving from Togiak Fish Cannery reported seeing 1 harbor porpoise stranded on the beach near the cannery on 4 August. Killer whales were sighted on 3 occasions. On 14 May and a pod of 5 was observed. Pods of 4 individuals were seen on 18 May and 8 June. It was possible that the same 4 individuals were observed on both dates. Both pods consisted of a large male with a very tall straight dorsal fin, 2 medium-sized animals, and 1 smaller animal.

MAINTENANCE:

Clean-up: An intensive effort went into the clean-up and removal of extraneous items that had been accumulating on the island. Several boat loads of trash were transported off the island courtesy of Don Winkleman's Charter Service. Lumber for a weatherport tent platform was painted for weatherproofing and stored behind the cabin. A new burn barrel was installed. Tools and island supplies were cleaned and inventoried prior to storage.

Trails: The staff improved the safety of existing trails by widening and reinforcing trails that were encroaching on beach cliff edges. Upper Traverse Trail was opened 8 June; however, because of wet and deteriorating trail conditions, it was closed for the season on 9 August. Steps were reinforced and widened in the walk up from Boat Cove. New boardwalks were added to boggy sections of trail above First and Second Beaches. Stakes were cut and placed to mark closed areas throughout the trail system. Grass cutting to keep trails clear continued throughout the summer. No new trails were created.

Cabin: The fuel oil drum was sanded and painted with rust inhibiting paint. Windows were caulked and the roof was tarred along seams. The new tub was sunk in the old one and the new propane burner for heating the tub was cleaned and painted with heat resistant paint to inhibit rust. Propane tanks were sanded and repainted with rust inhibiting paint. Hinges were replaced on

the storage shed door and repaired on the storage box. The cabin stove and heater were cleaned and coated to inhibit rust.

RECOMMENDATIONS:

1. Prepare for the following Sanctuary building and maintenance projects:

- Repair and repaint decks at cabin and bathtub
- Dig new hole for visitors outhouse
- Repaint cabin floor
- Build outside storage box for batteries
- Build platform for weatherport

2. Evaluate visitor carrying capacity versus expanding staff. Because of the limited visitor access to the island, plans of expanding the staff to cover research or other program needs should be evaluated with regards to possible negative impact on visitor opportunities.

3. Evaluate camping space capacity. There are 10 camping sites. Six of these camping sites are used regularly and four are grown over but available. Recommend no new camping spaces. Permits should be issued to accommodate no more than 10 spaces.

4. Evaluate the following Sanctuary facility needs:

Sanitation: Are existing sanitation facilities adequate to support current numbers of visitors?

Shelter: Evaluate the need for an emergency visitor shelter. Make recommendations regarding size, construction, location, and potential impacts of such a structure.

5. On-island visitor infractions. Develop and initiate a plan to deal with visitor infractions. Returning visitors seem to have a greater tendency to break sanctuary policies than first-time visitors. Several repeat-visitors caused problems this summer by failing to stay on trails. At least 3 repeat visitors were rumored to have fed the foxes to get better photos. Problems with policy breakers increased staff time because additional visitor monitoring was required.

6. Address the following visitor safety concerns:

Trails: Evaluate status of all existing trails for safety and condition. Continued use of Traverse Trail should be addressed. This trail is unstable and potentially dangerous.

Commercial Charter Services: Reevaluate commercial services in regards to passenger safety. Currently, ADFG permits 12 campers access to the island each 5 day period. Commercial boat transportation to the island is available only through Don's Round

Island Charters. The charter service's 28 ft. vessel, M/V Puffin, has a optimum load limit of 6 passengers with gear. There have been times in the past when this service has exceeded the limit of 6 people with up to 11 passengers. We need to clarify our position with the charter service and make necessary alterations to scheduling or permitting which will eliminate this problem.

7. Seek Attorney General opinion on:

1. Liability of transporting visitors and their gear from aircraft or vessels via ADFG inflatable boat.
 2. Liability risk of transporting visitors via a state owned and operated boat to and from a commercial vessel that may be over it's optimum load limit.
 3. Extent of our responsibility for visitor safety while they are on the island.
8. Develop an emergency medical protocol which details staff responsibilities, evacuation procedures, and reporting requirements. Assure, in addition to CPR training, that the 2 sanctuary staff have Emergency Trauma Technician training and all volunteers and relief staff have Advanced First Aid training.
9. Update visitor information handouts. Ensure that area ADFG offices and public information centers have current information.
10. Develop a vessel access restriction policy and design a violation reporting form, similar to the airspace policy.
11. Develop a day-use visitor access policy.
12. Distribute pre-season notifications of access policies to airports, canneries/fish processors, and local lodges.
13. Seek continued cooperation with USFWS on sanctuary operations and walrus research activities during 1994. Also continue cooperation with Togiak National Wildlife Refuge staff at Cape Pierce.
14. Reestablish efforts to develop a Walrus Islands State Game Sanctuary Management Plan and target a completion date by 31 December 1994.
15. Explore possibilities for using volunteers to assist with visitor services. If feasible, implement a trial volunteer program during 1994 field season.

EQUIPMENT NEEDS:

- New rain gauge for Weather Station
- Phone
- New tent for an Emergency Shelter
- Programmable VHF
- Spare kicker for inflatable boat (10hp)
- Portable computer and printer
- New VHF antenna

Prepared by:

Kiana Koenen
Wildlife Technician
ADFG

Submitted by:

Larry Van Daele
Wildlife Biologist
ADFG

Susan Kruse
Wildlife Technician
USFWS



1993 ROUND ISLAND WALRUS COUNTS BY BEACH

MODAY	WEST SOUTH		WEST MAIN	MAIN BEACH	NORTH		FIRST BEACH	FIRST PRIME	SEC. BEACH	SEC. PRIME	THIRD BEACH	EAST LAND TOTAL	EAST WATER TOTAL	EAST SIDE TOTAL	BOAT COUNTS		
	MAIN	MAIN			BOAT COVE	BOAT COVE									BOAT EAST TOTAL	BOAT WEST TOTAL	TOTAL ISLAND
05 04	-	-	-	265	0	0	0	0	0	0	-	265					
WATER	-	-	-	0	0	0	0	0	0	0	-		0	265			
05 05	-	-	-	1010	0	12	0	0	1	0	-	1023					
WATER	-	-	-	0	0	0	0	0	0	0	-		0	1023			
05 06	-	-	-	1575	11	13	18	0	0	0	-	1617					
WATER	-	-	-	1	0	2	0	0	0	0	-		3	1620			
05 07	-	-	-	1100	0	0	33	0	1	0	-	1134					
WATER	-	-	-	3	0	0	0	0	0	0	-		3	1137			
BOAT	1000		430	1250	0	0	35	0	2	0	0				1287	1430	2717
05 08	-	-	-	90	0	0	17	0	0	0	-	107					
WATER	-	-	-	3	0	0	0	0	0	0	-		3	110			
05 09	-	-	-	175	0	0	1	0	0	0	-	176					
WATER	-	-	-	7	0	0	0	0	0	0	-		7	183			
05 10	-	-	-	120	0	0	0	0	0	0	-	120					
WATER	-	-	-	3	0	0	0	0	0	0	-		3	123			
05 11	-	-	-	280	0	0	0	0	0	0	-	280					
WATER	-	-	-	12	0	0	0	0	0	0	-		12	292			
05 12	-	-	-	875	0	6	0	0	0	0	-	681					
WATER	-	-	-	20	0	0	0	0	0	0	-		20	701			
05 13	-	-	-	750	0	0	0	0	0	0	-	750					
WATER	-	-	-	3	0	0	0	0	0	0	-		3	753			
05 14	-	-	-	1040	0	6	0	0	0	0	-	1046					
WATER	-	-	-	45	0	0	0	0	0	0	-		45	1091			
BOAT	300		350	1150	0	6	1	0	0	0	0				1157	650	1807
05 15	-	-	-	550	0	0	0	0	0	0	-	550					
WATER	-	-	-	0	0	0	0	0	0	0	-		0	550			
05 16	-	-	-	770	0	0	0	0	0	0	-	770					
WATER	-	-	-	2	0	0	0	0	0	0	-		2	772			
05 17	-	-	-	1000	0	2	0	0	0	0	-	1002					
WATER	-	-	-	2	0	0	0	0	0	0	-		2	1004			
05 18	-	-	-	1200	0	0	0	0	1	0	-	1201					
WATER	-	-	-	2	0	0	1	0	0	0	-		3	1204			
05 19	-	-	-	695	2	5	0	0	0	0	-	702					
WATER	-	-	-	35	0	8	0	0	0	0	-		43	745			
05 20	-	-	-	930	0	0	0	0	0	0	-	930					
WATER	-	-	-	12	0	0	0	0	0	0	-		12	942			
05 21	-	-	-	1500	0	8	3	0	0	0	-	1511					
WATER	-	-	-	16	0	0	0	0	0	0	-		16	1527			
BOAT	-		0	1600	-	-	-	-	-	-	-						NO ISLAND TOTAL
05 22	-	-	-	915	8	8	0	0	0	0	-	931					
WATER	-	-	-	15	0	4	0	0	0	0	-		19	950			
05 23	-	-	-	885	11	3	0	0	0	0	-	899					
WATER	-	-	-	10	0	0	0	0	0	0	-		10	909			
05 24	-	-	-	455	0	2	0	0	0	0	-	457					
WATER	-	-	-	0	0	0	0	0	0	0	-		0	457			

1993 ROUND ISLAND WALRUS COUNTS BY BEACH

														BOAT COUNTS		
MODAY	WEST		MAIN BEACH	NORTH		FIRST BEACH	FIRST PRIME	SEC. BEACH	SEC. PRIME	THIRD BEACH	EAST LAND TOTAL	EAST WATER TOTAL	EAST SIDE TOTAL	BOAT		TOTAL ISLAND
	SOUTH MAIN	WEST MAIN		BOAT COVE	BOAT COVE									BOAT EAST TOTAL	BOAT WEST TOTAL	
05 25	-	-	2	0	0	0	0	0	0	-	2					
WATER	-	-	0	0	0	0	0	0	0	-		0	2			
05 26	-	-	30	0	0	0	0	0	0	-	30					
WATER	-	-	7	0	0	0	0	0	0	-		7	37			
05 27	-	-	390	0	0	0	0	0	0	-	390					
WATER	-	-	11	0	0	0	0	0	0	-		11	401			
05 28	-	-	1600	1	0	0	0	0	0	-	1601					
WATER	-	-	34	0	0	0	0	0	0	-		34	1635			
05 29	-	-	2570	0	1	16	0	0	3	-	2590					
WATER	-	-	30	0	1	1	0	0	1	-		33	2623			
05 30	-	-	2800	0	13	117	1	0	3	-	2934					
WATER	-	-	35	0	3	3	0	0	0	-		41	2975			
BOAT	110	400	1600	0	24	50	0	0	1	-				1675	510	2185
05 31	-	-	3200	0	20	186	18	2	0	-	3426					
WATER	-	-	30	0	1	1	1	0	0	-		33	3459			
06 01	-	-	3900	0	21	144	0	3	0	-	4068					
WATER	-	-	6	0	0	1	0	0	0	-		7	4075			
06 02	-	-	4900	0	17	173	0	0	0	-	5090					
WATER	-	-	12	0	1	1	0	0	0	-		14	5104			
06 03	-	-	80	0	0	0	0	0	0	-	80					
WATER	-	-	0	0	0	0	0	0	0	-		0	80			
06 04	-	-	140	0	0	0	0	0	0	-	140					
WATER	-	-	0	0	0	0	0	0	0	-		0	140			
06 05	-	-	150	0	0	0	0	0	0	-	150					
WATER	-	-	1	0	0	0	0	0	0	-		1	151			
06 06	-	-	0	0	0	0	0	0	0	-	0					
WATER	-	-	1	0	0	0	0	0	0	-		1	1			
06 07	-	-	10	0	2	0	0	0	0	0	12					
WATER	-	-	0	0	0	0	0	0	0	-		0	12			
06 08	-	-	330	0	0	0	0	0	0	-	330					
WATER	-	-	7	0	0	0	0	0	0	-		7	337			
06 09	-	-	2700	23	94	197	0	7	0	-	3021					
WATER	-	-	19	0	0	0	0	0	0	-		19	3040			
06 10	-	-	3300	26	121	310	3	207	0	-	3967					
WATER	-	-	28	0	0	0	0	0	0	-		28	3995			
06 11	-	-	3000	32	174	278	0	207	0	-	3691					
WATER	-	-	33	0	0	3	0	3	0	-		39	3730			
06 12	-	-	1850	8	64	166	0	135	0	-	2223					
WATER	-	-	24	2	0	1	0	2	0	-		29	2252			
BOAT 2MORT		200	3600	13	89	230	1	180	0	0				4113	200	4313
06 13	-	-	750	0	10	92	0	75	0	-	927					
WATER	-	-	11	0	0	3	0	0	0	-		14	941			
06 14	-	-	875	0	6	20	1	32	0	-	934					
WATER	-	-	7	0	0	0	0	0	0	-		7	941			

1993 ROUND ISLAND WALRUS COUNTS BY BEACH

													BOAT COUNTS			
													~~~~~			
MODAY	WEST SOUTH MAIN	WEST MAIN	MAIN BEACH	NORTH BOAT COVE	BOAT COVE	FIRST BEACH	FIRST PRIME	SEC. BEACH	SEC. PRIME	THIRD BEACH	EAST LAND TOTAL	EAST WATER TOTAL	EAST SIDE TOTAL	BOAT EAST TOTAL	BOAT WEST TOTAL	TOTAL ISLAND
06 15	-	-	1575	0	13	34	0	30	0	-	1652					
WATER	-	-	8	0	0	0	0	0	0	-		8	1660			
06 16	-	-	1350	0	14	125	0	85	4	-	1578					
WATER	-	-	250	0	0	0	0	0	0	-		250	1828			
06 17	-	-	1325	0	1	82	0	118	0	-	1526					
WATER	-	-	0	0	0	0	0	0	0	-		0	1526			
06 18	-	-	975	0	15	156	0	180	2	-	1328					
WATER	-	-	0	0	0	0	0	0	0	-		0	1328			
06 19	-	-	650	0	0	74	0	102	0	-	826					
WATER	-	-	1	0	0	0	0	0	0	-		1	827			
06 20	-	-	730	0	8	46	0	94	2	-	880					
WATER	-	-	15	0	1	2	0	3	1	-		22	902			
06 21	-	-	960	0	18	122	3	93	3	-	1199					
WATER	-	-	16	0	0	0	4	1	4	-		25	1224			
06 22	-	-	710	0	38	69	3	312	0	-	1132					
WATER	-	-	26	0	9	2	0	6	0	-		43	1175			
06 23	-	-	1150	0	53	190	0	232	0	-	1625					
WATER	-	-	12	0	0	2	0	0	0	-		14	1639			
06 24	-	-	2400	0	6	234	4	390	7	-	3041					
WATER	-	-	16	0	0	3	0	2	0	-		21	3062			
06 25	-	-	1500	0	12	194	14	390	10	-	2120					
WATER	-	-	26	0	0	2	0	4	0	-		32	2152			
06 26	-	-	240	0	0	0	0	0	0	-	240					
WATER	-	-	5	0	0	0	0	0	0	-		5	245			
06 27	-	-	900	4	19	0	0	0	0	-	923					
WATER	-	-	6	0	0	0	0	0	0	-		6	929			
06 28	-	-	435	0	1	0	0	0	0	-	436					
WATER	-	-	4	0	1	0	0	0	0	-		5	441			
06 29	-	-	950	0	3	0	0	0	0	-	953					
WATER	-	-	10	0	0	0	0	0	0	-		10	963			
06 30	-	-	1220	0	18	47	0	4	1	-	1290					
WATER	-	-	26	0	2	0	0	0	0	-		26	1318			
07 01	-	-	240	0	0	3	0	0	0	-	243					
WATER	-	-	2	0	0	0	0	0	0	-		2	245			
07 02	-	-	300	0	0	0	0	0	0	-	300					
WATER	-	-	3	0	0	0	0	0	0	-		3	303			
07 03	-	-	1900	0	0	74	0	31	0	-	2005					
WATER	-	-	7	0	0	1	0	0	0	-		8	2013			
07 04	-	-	1350	11	32	138	0	235	0	-	1766					
WATER	-	-	21	0	4	1	0	2	1	-		29	1795			
07 05	-	-	1911	18	22	266	8	271	0	-	2496					
WATER	-	-	19	0	1	4	0	7	0	-		31	2527			
07 06	-	-	2127	16	3	220	3	340	0	-	2709					
WATER	-	-	41	0	0	0	0	3	0	-		44	2753			

## 1993 ROUND ISLAND WALRUS COUNTS BY BEACH

												BOAT COUNTS				
												~~~~~				
MODAY	WEST SOUTH MAIN	WEST MAIN	MAIN BEACH	NORTH BOAT COVE	BOAT COVE	FIRST BEACH	FIRST PRIME	SEC. BEACH	SEC. PRIME	THIRD BEACH	EAST LAND TOTAL	EAST WATER TOTAL	EAST SIDE TOTAL	BOAT EAST TOTAL	BOAT WEST TOTAL	TOTAL ISLAND
07 07	-	-	1750	14	14	184	16	277	3	-	2258					
WATER	-	-	22	0	0	3	0	3	0	-		28	2286			
07 08	-	-	1550	0	11	203	38	257	2	-	2061					
WATER	-	-	35	0	0	3	1	21	0	-		60	2121			
07 09	-	-	1900	0	20	15	118	71	52	-	2176					
WATER	-	-	41	0	0	0	2	0	0	-		43	2219			
BOAT	0	475	2500	1	34	250	120	300	29	0				3234	475	3709
07 10	-	-	250	0	3	162	32	95	72	-	614					
WATER	-	-	150	0	0	1	1	3	0	-		155	769			
07 11	-	-	1375	0	0	130	12	81	3	-	1601					
WATER	-	-	17	0	0	3	0	0	0	-		20	1621			
07 12	-	-	1525	0	3	152	15	144	2	-	1841					
WATER	-	-	4	0	0	0	0	1	0	-		5	1846			
07 13	-	-	625	0	0	13	0	44	0	-	682					
WATER	-	-	6	0	0	1	0	1	0	-		8	690			
07 14	-	-	1850	0	1	13	1	100	1	-	1966					
WATER	-	-	4	0	0	0	0	0	0	-		4	1970			
07 15	-	-	1750	0	7	1	0	181	0	-	1939					
WATER	-	-	25	0	0	0	0	0	0	-		25	1964			
07 16	-	-	1600	0	0	115	0	225	17	-	1957					
WATER	-	-	4	0	0	0	0	0	0	-		4	1961			
07 17	-	-	2175	0	6	105	5	96	22	-	2409					
WATER	-	-	2	0	1	20	0	2	0	-		25	2434			
BOAT	0	325	2400	0	14	130	9	140	23	0				2716	325	3041
07 18	-	-	1600	0	5	71	1	213	0	-	1890					
WATER	-	-	10	0	0	0	0	0	0	-		10	1900			
07 19	-	-	400	0	7	64	0	30	0	-	501					
WATER	-	-	4	0	0	0	0	0	0	-		4	505			
07 20	-	-	325	0	0	34	0	0	0	-	359					
WATER	-	-	3	0	0	0	0	0	0	-		3	362			
07 21	-	-	2100	0	0	164	0	22	0	-	2286					
WATER	-	-	3	0	0	0	0	0	0	-		3	2289			
07 22	-	-	1280	0	10	160	4	81	1	-	1536					
WATER	-	-	25	0	0	1	0	0	0	-		26	1562			
07 23	-	-	2300	0	7	158	5	125	0	-	2595					
WATER	-	-	11	0	0	0	0	0	0	-		11	2606			
07 24	-	-	655	0	5	192	0	194	1	-	1047					
WATER	-	-	10	0	0	0	0	5	1	-		16	1063			
07 25	-	-	350	0	0	0	0	3	0	-	353					
WATER	-	-	2	0	0	0	0	0	0	-		2	355			
07 26	-	-	310	0	11	0	1	0	10	-	332					
WATER	-	-	15	0	0	0	0	0	1	-		16	348			
07 27	-	-	1150	0	11	0	0	71	7	-	1239					
WATER	-	-	1	0	0	0	0	1	0	-		2	1241			

1993 ROUND ISLAND WALRUS COUNTS BY BEACH

												BOAT COUNTS				
												~~~~~				
MODAY	WEST SOUTH MAIN	WEST MAIN	MAIN BEACH	NORTH BOAT COVE	BOAT COVE	FIRST BEACH	FIRST PRIME	SEC. BEACH	SEC. PRIME	THIRD BEACH	EAST LAND TOTAL	EAST WATER TOTAL	EAST SIDE TOTAL	BOAT EAST TOTAL	BOAT WEST TOTAL	TOTAL ISLAND
07 28	-	-	180	0	0	29	0	220	0	-	429					
WATER	-	-	0	0	0	0	0	0	0	-		0	429			
07 29	-	-	6	0	0	0	0	0	48	-	54					
WATER	-	-	0	0	0	0	0	0	9	-		9	63			
07 30	-	-	400	0	0	0	0	0	32	-	432					
WATER	-	-	20	0	0	0	0	0	9	-		29	461			
07 31	-	-	650	0	0	1	0	4	3	-	658					
WATER	-	-	5	0	0	0	0	0	0	-		5	663			
08 01	-	-	900	0	0	60	0	13	3	-	976					
WATER	-	-	7	0	0	0	0	1	0	-		8	984			
08 02	-	-	1150	0	12	150	0	17	0	-	1329					
WATER	-	-	2	0	0	0	0	0	0	-		2	1331			
08 03	-	-	1075	7	9	178	1	72	0	-	1342					
WATER	-	-	12	0	1	8	0	0	0	-		21	1363			
08 04	-	-	420	0	5	79	0	24	0	-	528					
WATER	-	-	14	0	0	4	0	0	0	-		18	546			
08 05	-	-	1350	0	0	134	0	0	44	-	1528					
WATER	-	-	13	0	0	0	0	0	0	-		13	1541			
08 06	-	-	320	0	4	32	0	17	0	-	373					
WATER	-	-	17	1	0	0	0	0	0	-		18	391			
08 07	-	-	390	0	5	35	1	6	0	-	437					
WATER	-	-	6	0	0	2	0	0	0	-		8	445			
08 08	-	-	425	0	0	26	0	0	0	-	451					
WATER	-	-	7	0	0	2	0	0	0	-		9	460			
08 09	-	-	405	0	0	16	2	4	1	-	428					
WATER	-	-	31	0	0	0	0	0	0	-		31	459			
08 10	-	-	925	0	1	16	2	0	4	-	948					
WATER	-	-	6	0	0	2	1	0	1	-		10	958			
08 11	-	-	850	0	7	0	1	1	0	-	859					
WATER	-	-	2	0	0	0	0	0	0	-		2	861			
08 12	-	-	365	0	1	6	0	4	1	-	377					
WATER	-	-	4	0	0	0	0	0	0	-		4	381			
08 13	-	-	40	0	0	-	-	-	-	-	40					
WATER	-	-	2	0	0	-	-	-	-	-		2	42			
08 14	-	-	60	0	0	0	0	0	0	-	60					
WATER	-	-	8	0	0	0	0	0	0	-		8	68			

# 1993 ROUND ISLAND WALRUS DAILY COUNT TOTALS

LOC'N  
Replace E.MAIN  
with E.SIDE

CLD WNDWND													LOC'N	WAL	WAL	WAL
MODA	BC	CVR	SPD	DIR	PC	BAROM	CHG	MA	MI	TD	TIME	WTR		LND	TOT	
5 04	2	2	15	4	0	-	-	-	38	3	1914	E.MAIN	0	265	265	
5 05	0	2	5	4	0	-	-	50	40	1	2105	E.MAIN	0	1023	1023	
5 06	1	1	15	8	0	-	-	-	40	1	2200	E.MAIN	3	1617	1620	
5 07	1	2	20	8	0	-	-	48	40	3	2130	E.MAIN	3	1134	1137	
B5 07	1	2	10	8	0	-	-	48	40	2	1341	TOT.ISL.	-	2717	2717	
5 08	3	1	28	8	0	-	-	36	28	1	1230	E.SIDE	3	107	110	
5 09	2	1	10	8	0	-	-	-	27	3	1140	E.SIDE	7	176	183	
5 10	3	2	30	4	1	-	-	-	38	1	1420	E.SIDE	3	120	123	
5 11	1	1	10	9	1	-	-	-	36	1	1527	E.SIDE	12	280	292	
5 12	1	2	15	4	0	-	-	-	38	2	1711	E.SIDE	20	681	701	
5 13	1	2	20	4	1	-	-	-	39	1	1730	E.SIDE	3	750	753	
5 14	0	1	5	4	0	-	-	-	-	1	1710	E.SIDE	45	1046	1091	
B5 14	-	-	-	-	-	-	-	-	-	2	2000	TOT.ISL.	-	1807	1807	
5 15	2	1	20	4	0	-	-	-	42	1	1715	E.SIDE	0	550	550	
5 16	1	1	15	4	0	-	-	-	-	3	1747	E.SIDE	2	770	772	
5 17	0	2	15	7	0	-	-	-	44	1	1837	E.SIDE	2	1002	1004	
5 18	0	2	15	5	0	-	-	-	44	1	1939	E.SIDE	3	1201	1204	
5 19	0	2	10	9	1	-	-	48	44	2	1014	E.SIDE	43	702	745	
5 20	2	2	20	8	1	-	-	-	-	1	1038	E.SIDE	12	930	942	
5 21	1	2	10	8	0	-	-	66	-	1	1054	E.SIDE	16	1511	1527	
5 22	1	2	10	9	0	-	-	58	-	1	1142	E.SIDE	19	931	950	
5 23	2	2	20	5	1	-	-	50	-	1	1218	E.SIDE	10	899	909	
5 24	3	2	30	4	0	-	-	48	-	1	1341	E.SIDE	0	457	457	
5 25	3	2	35	4	1	-	-	43	43	1	1340	E.MAIN	0	2	2	
5 26	2	0	15	4	0	-	-	48	47	3	1317	E.MAIN	7	30	37	
5 27	1	1	15	4	0	-	-	-	-	1	1611	E.MAIN	11	390	401	
5 28	0	1	5	4	0	-	-	-	-	1	1633	E.MAIN	34	1601	1635	
5 29	0	0	5	9	0	-	-	-	-	1	1726	E.MAIN	33	2590	2623	
5 30	0	0	0	0	0	-	-	73	62	1	1714	E.MAIN	41	2934	2975	
B5 30	0	0	0	0	0	-	-	73	62	4	1015	TOT.ISL.	-	2185	2185	
5 31	0	0	0	0	0	-	-	-	-	1	1815	E.MAIN	33	3426	3459	
6 01	0	0	5	9	0	-	-	-	-	1	1821	E.MAIN	7	4068	4075	
6 02	1	2	10	5	1	-	-	52	-	2	0950	E.MAIN	14	5090	5104	
6 03	2	2	25	3	0	-	-	-	-	1	0904	E.MAIN	0	80	80	
6 04	1	2	15	4	0	-	-	-	47	1	0922	E.MAIN	0	140	140	
6 05	3	2	20	4	0	-	-	56	-	1	1117	E.MAIN	1	150	151	
6 06	3	1	20	4	0	-	-	-	-	2	1026	E.MAIN	1	0	1	
6 07	1	0	15	3	0	-	-	-	-	1	1250	E.MAIN	0	12	12	
6 08	3	0	20	3	0	-	-	-	-	1	1255	E.MAIN	7	330	337	
6 09	0	2	20	8	0	-	-	-	45	1	1400	E.MAIN	19	3021	3040	
6 10	1	2	15	7	0	-	-	-	44	1	1520	E.MAIN	28	3967	3995	
6 11	0	2	10	7	0	-	-	-	-	1	1543	E.MAIN	39	3691	3730	
6 12	0	1	15	7	0	-	-	57	-	1	1601	E.MAIN	29	2223	2252	
B6 12	-	-	-	-	-	-	-	-	-	4	1014	TOT.ISL.	-	4314	4314	
6 13	0	2	0	1	0	-	-	-	-	1	1628	E.MAIN	14	927	941	



# 1993 ROUND ISLAND WALRUS DAILY COUNT TOTALS

CLD WNDWND													WAL WAL WAL			
MODA	BC	CVR	SPD	DIR	PC	BAROM	CHG	MA	MI	TD	TIME	LOC'N	WTR	LND	TOT	
6	14	0	1	10	5	0	—	—	—	—	3	1623	E.MAIN	934	7	941
6	15	1	1	15	4	0	—	—	—	—	3	1714	E.MAIN	8	1652	1660
6	16	0	1	5	5	0	—	—	—	—	3	1828	E.MAIN	250	1578	1828
6	17	1	1	15	8	0	—	—	—	—	1	1913	E.MAIN	0	1526	1526
6	18	1	1	30	8	0	—	—	—	—	1	0947	E.MAIN	0	1328	1328
6	19	2	1	25	7	0	—	—	—	—	1	0959	E.MAIN	1	826	827
6	20	1	0	3	7	0	—	—	—	—	1	0957	E.MAIN	22	880	902
6	21	0	2	5	9	0	—	—	—	—	1	1148	E.MAIN	25	1199	1224
6	22	0	2	15	7	1	—	—	—	—	1	1031	E.MAIN	43	1132	1175
6	23	0	2	10	5	0	29.80	—	—	—	1	1234	E.MAIN	14	1625	1639
6	24	0	1	8	7	0	29.80	—	67	44	1	1317	E.MAIN	21	3041	3062
6	25	0	1	5	6	0	30.00	0.20	72	52	1	1521	E.MAIN	32	2120	2152
6	26	3	2	25	6	1	29.58	−0.42	52	43	1	1450	E.MAIN	5	240	245
6	27	1	2	10	5	0	29.62	0.04	55	40	1	1616	E.MAIN	6	923	929
6	28	2	2	15	4	0	29.54	−0.08	49	43	1	1619	E.MAIN	5	436	441
6	29	1	2	10	4	0	29.70	0.16	41	61	3	1611	E.MAIN	10	953	963
6	30	0	1	8	6	0	29.90	0.20	68	40	3	1752	E.MAIN	28	1290	1318
7	01	3	2	35	3	1	29.72	−0.18	56	38	1	1927	E.MAIN	2	243	245
7	02	2	2	5	5	1	29.40	−0.32	55	44	3	1819	E.MAIN	3	300	303
7	03	0	2	10	3	0	29.60	0.20	56	44	1	2100	E.MAIN	8	2005	2013
7	04	0	1	5	4	0	29.78	0.18	52	40	3	2120	E.MAIN	29	1766	1795
7	05	1	2	10	4	0	30.10	0.32	58	44	1	1045	E.MAIN	31	2496	2527
7	06	0	2	8	4	1	30.30	0.20	61	44	1	1203	E.MAIN	44	2709	2753
7	07	0	1	6	1	0	30.36	0.06	61	44	1	1325	E.MAIN	28	2258	2286
7	08	0	0	10	7	0	30.34	−0.02	67	44	3	1257	E.MAIN	60	2061	2121
7	09	0	1	0	0	0	30.34	0.00	75	45	3	1408	E.MAIN	43	2176	2219
B7	09	—	—	—	—	—	—	—	—	—	—	0956	TOT.ISL.	—	3709	3709
7	10	0	0	8	9	0	30.30	0.00	72	46	1	1508	E.MAIN	155	614	769
7	11	0	1	12	8	0	30.38	0.08	81	47	3	1417	E.MAIN	20	1601	1621
7	12	0	2	3	9	0	30.22	−0.16	72	46	1	1608	E.MAIN	5	1845	1850
7	13	1	2	8	4	0	30.04	−0.18	58	46	1	1750	E.MAIN	8	682	690
7	14	0	2	7	7	0	30.19	0.15	61	46	1	1714	E.MAIN	4	1966	1970
7	15	0	2	8	7	0	30.18	−0.01	64	43	3	1710	E.MAIN	25	1939	1964
7	16	0	0	0	0	0	30.17	−0.01	72	49	1	1920	E.MAIN	4	1957	1961
7	17	0	2	6	9	0	30.14	−0.03	78	46	3	1847	E.MAIN	25	2409	2434
B7	17	—	—	—	—	—	—	—	—	—	—	1221	TOT.ISL.	—	3041	3041
7	18	2	1	10	4	0	29.94	−0.20	72	49	1	1930	E.MAIN	10	1890	1900
7	19	3	1	20	4	0	30.00	0.06	70	49	1	1104	E.MAIN	4	501	505
7	20	3	1	20	4	0	29.74	−0.26	71	52	1	1002	E.MAIN	3	359	362
7	21	0	0	0	0	0	29.64	−0.10	81	52	3	2213	E.MAIN	3	2286	2289
7	22	0	1	4	9	0	29.64	0.00	78	49	3	1129	E.MAIN	26	1536	1562
7	23	0	2	3	9	0	29.78	0.14	67	48	1	1254	E.MAIN	11	2595	2606
7	24	2	2	20	3	0	29.74	−0.04	72	49	3	1220	E.MAIN	16	1047	1063
7	25	3	2	10	3	0	29.74	0.00	—	49	1	1451	E.MAIN	2	353	355
7	26	0	0	20	6	0	30.00	0.26	78	43	1	1500	E.MAIN	16	332	348



# 1993 ROUND ISLAND WALRUS DAILY COUNT TOTALS

CLD WNDWND													WAL WAL WAL			
MODA	BC	CVR	SPD	DIR	PC	BAROM	CHG	MA	MI	TD	TIME	LOC'N	WTR	LND	TOT	
7	27	0	2	15	8	1	29.80	-0.20	-	-	1	1657	E.MAIN	2	1239	1241
7	28	2	2	25	7	0	29.74	-0.06	61	52	1	1729	E.MAIN	0	429	429
7	29	1	1	30	7	0	29.76	0.02	67	49	1	1832	E.MAIN	9	54	63
7	30	0	0	20	7	0	29.78	0.02	75	49	1	1838	E.MAIN	29	432	461
7	31	0	2	4	9	0	30.12	0.34	72	46	1	1942	E.MAIN	5	658	663
8	01	0	2	0	0	0	30.29	0.17	-	49	1	2037	E.MAIN	8	976	984
8	02	0	2	5	9	0	30.31	0.02	64	49	3	2104	E.MAIN	2	1329	1331
8	03	1	2	10	4	1	30.23	-0.08	58	49	3	2143	E.MAIN	21	1342	1363
8	04	1	2	3	9	1	30.09	-0.14	55	49	1	1012	E.MAIN	18	528	546
8	05	0	2	8	4	1	30.14	0.05	-	-	3	1159	E.MAIN	13	1528	1541
8	06	1	2	7	9	1	30.14	0.00	57	49	1	1311	E.MAIN	18	373	391
8	07	2	1	18	8	0	30.24	0.10	67	49	1	1338	E.MAIN	8	437	445
8	08	1	1	20	8	0	30.18	-0.06	70	52	1	1336	E.MAIN	9	451	460
8	09	0	2	4	9	0	30.09	-0.09	78	52	3	1453	E.MAIN	31	428	459
8	10	0	1	6	7	1	29.88	-0.21	-	52	1	1528	E.MAIN	10	948	958
8	11	0	2	5	9	0	29.88	0.00	64	52	1	1716	E.MAIN	2	859	861
8	12	1	1	20	3	0	29.88	0.00	58	49	1	1627	E.MAIN	4	377	381
8	13	3	2	30	4	1	29.62	-0.26	52	49	3	1638	E.MAIN	2	40	42
8	14	0	2	0	0	1	29.08	-0.54	61	46	2	0913	E.MAIN	8	60	60

B IN MONTH COLUMN SPECIFIES BOAT COUNT

CODES FOR WALRUS AND SEA LION CENSUS FORMS

MO= Month  
DA= Day  
CLD CVR= Cloud Cover: clear=0 broken=1 overcast=2  
WND SPD= Wind Speed  
WND DIR= Wind Direction: 1=N 2=NE 3=E 4=SE 5=S 6=SW 7=W  
8=NW 9=Variable  
PC= Precipitation: yes=1 no=0  
BAROM= Barometer  
CHG= Change in Barometer from Previous Day  
MA= Maximum Temperature  
MI= Minimum Temperature  
TD= Tide: high=4 low=1 rising=2 falling=3  
TIME= Time of count  
LOC'N= Location of Haulout (Beach)  
WAL WTR= Number of Walrus in the Water  
WAL LND= Number of Walrus Hauled Out  
~~WAL TOT= Total Number of Walrus~~

---

BC= Beach Conditions: calm=0 moderate waves=1 rough=2  
very rough=3

NOTE: Blank= No Data 0= Count of Zero

## 1993 ROUND ISLAND SEA LION COUNTS

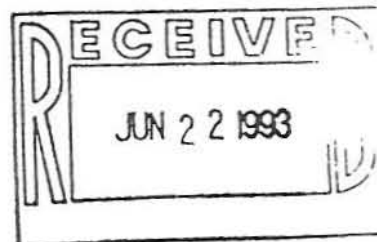
Count Location: East Cape/Third Beach

DATE	# HAULED-OUT	# IN WATER	TOTAL
05/07 [BOAT]	280	NC	280
05/08	260	30	290
05/14	255	50	305
05/15	369	0	369
05/17	298	60	358
05/21	189	61	250
05/26	187	36	223
05/29	183	44	227
05/30 [BOAT]	140	NC	140
06/04	68	2	70
06/08	77	29	106
06/12 [BOAT]	225	NC	225
06/13	140	39	179
06/18	231	15	246
06/23	79	2	81
06/29	63	2	65
07/03*	16*	0*	16*
07/06	87	3	90
07/08	78	6	84
07/09 [BOAT]	80	NC	80
07/16	114	29	143
07/17 [BOAT]	110	NC	110
07/19	10	35	45
07/28*	26*	0*	26*
08/03*	20*	0*	20*
08/07*	27*	0*	27*
08/12*	45*	1*	46*
08/14*	42*	1*	43*

* = Only Third Beach Counted NC = Not Counted BOAT = Counted From Boat



Cooperative Agreement  
between the  
Alaska Department of Fish and Game,  
Division of Wildlife Conservation  
and the  
United States Fish and Wildlife Service,  
Marine Mammals Management  
for Mutual Support of the Round Island  
Walrus and Visitor Management Program  
in the  
Walrus Islands State Game Sanctuary



#### Authority

The Marine Mammal Protection Act of 1972, as amended (16 U.S.C. 1361 et. seq.) authorizes the U.S. Fish and Wildlife Service, Marine Mammals Management (Service) and State agencies to enter into cooperative agreements for the conduct of any Service function or activity pertaining to the management and study of marine mammals.

#### Purpose

This Cooperative Agreement recognizes the importance of cooperative work between the Alaska Department of Fish and Game, Division of Wildlife Conservation (Department), and the Service in providing personnel and funding for walrus research and management and sanctuary activities at Round Island in the Walrus Islands State Game Sanctuary, Bristol Bay, Alaska. A high level of cooperation is necessary within the sanctuary because the Department is charged with managing the land and near-shore waters in the area while the Service is charged with managing the walruses that use the area.

The purpose of this agreement is to document the conditions under which the Service agrees to provide a Wildlife Biological Science Technician (FWS Tech) to cooperate with the Department's Fish and Wildlife Technician (ADFG Tech) on the Round Island program.

#### Scope of Work

In order to meet this purpose, the Service agrees to provide:

- * funding for all costs associated with the salary, benefits, insurance programs, etc. for the FWS Tech;
- * all training required by the Service (e.g. boat safety, aircraft safety, CPR/First Aid, etc.) and basic field gear (e.g. boots, rain gear, personal floatation devices, etc.) for the FWS Tech;
- * travel and per diem for the FWS Tech to and from Round Island and Anchorage;

cc Diana Gravel  
V. Naele

- * one half of the cost of food for the FWS Tech and the ADFG Tech while they are stationed on Round Island; and,
- * any specialized equipment for walrus research and monitoring activities (e.g. computers, binoculars, spotting scopes, etc.).

The Department agrees to provide:

- * all personnel costs, travel, per diem, lodging and transportation associated with having an ADFG Tech for the Round Island program from April 15, 1993, to August 31, 1993;
- * one half of the cost of food for the FWS Tech and the ADFG Tech while they are stationed on Round Island;
- * lodging and logistical support for the FWS Tech while in Dillingham and on Round Island; and,
- * all cost associated with routine sanctuary operations and the visitor program.

The Service and the Department mutually agree that:

- * at no time will only one person be stationed on Round Island; each agency will be responsible for covering its own vacancies;
- * day-to-day supervision of the FWS Tech and any volunteers on the island is the responsibility of the ADFG Tech; however, overall supervision of the FWS Tech will be by the Service and overall supervision of the ADFG Tech will be by the Department; significant conflicts will be reported simultaneously to the Service and Department immediate supervisors and they will be mutually responsible for conflict resolution;
- * the equivalent of at least one person's duty time (40 hrs/wk) will be devoted to walrus monitoring and/or research activities as directed by the Service;
- * both technicians stationed on Round Island will share equally in walrus monitoring/research, visitor services, sanctuary management, and facility/trail upkeep activities;
- * the Department will take the lead in producing a section within an annual report on sanctuary management activities and the Service will take the lead in producing a section within the report on walrus monitoring/research activities on Round Island. A draft report for internal review will be completed by September 30, 1993;
- * the agencies will evaluate the success of this joint effort and provide recommendations for continuation and/or improvements during a joint meeting in Anchorage during the winter of 1993/94; and,

- * no funds are required to be transferred between the Service and the Department as a result of this agreement.

#### Period of Performance

The Service will provide the FWS Tech to the Round Island program from at least May 1, 1993, to August 31, 1993.

#### Project Officers

The Project Officer representing the Service for this agreement will be Dana J. Seagars, U.S. Fish and Wildlife Service, Marine Mammals Management, 4230 University Drive, Suite 310, Anchorage, AK 99508 (907-271-2348).

The Project Officer representing the Department for this agreement will be Larry Van Daele, Alaska Department of Fish and Game, Division of Wildlife Conservation, P.O. Box 1030, Dillingham, AK 99576 (907-842-1013).

---

#### General Provisions

- * The Service's General Provisions to Grants and Cooperative Agreements, dated August 1, 1985, shall be applicable to this Cooperative Agreement.
- * Attachment 1. GENERAL PROVISIONS are hereby incorporated and made a part of this agreement.

#### Termination Information

The termination of this agreement shall be December 31, 1993. However, any signatory agency may terminate its participation in this agreement by providing to all parties notice in writing 30 days in advance of the date on which termination becomes effective.

cc Diana



ATTACHMENT 1. GENERAL PROVISIONS

1. Nothing in this agreement shall obligate any party in the expenditure of funds, or for future payments of money, in excess of appropriations authorized by law.
2. Each party agrees that it will be responsible for its own acts and the results thereof and each party shall not be responsible for the acts of the other party; and each party agrees it will assume to itself risk and liability resulting in any manner under this agreement.
3. No member of Congress, or the Commissioner, shall be admitted to any share or any part of the agreement or to any benefit that may arise therefrom.
4. Each party will comply will all applicable laws, regulations, and executive orders relative to Equal Employment Opportunity.
5. Nothing herein is intended to conflict with federal, state, or local laws or regulations. ~~If there are conflicts, this agreement will be amended at the first opportunity to bring it into conformance with conflicting laws or regulations.~~
6. Policy and position announcements relating specifically to this cooperative program may be made only by mutual consent of the agencies.
7. All signatory agencies/organizations shall meet jointly on at least an annual basis to discuss matters relating to this agreement.
8. Upon termination of this agreement any equipment purchased for studies initiated in furtherance of this agreement will be returned to the agency of initial purchase.
9. The effective date of this agreement shall be from the date of the final signature.
10. Any material published or data acquired as a result of this cooperative program may be reproduced with credit given to the agencies, or organizations responsible for the development of the material.
11. Either signatory agency may terminate its participation in this agreement by providing to all parties notice in writing 30 days in advance of the date on which its termination becomes effective.
12. A free exchange of research and assessment data among agencies is encouraged and is necessary to insure the success of these cooperative studies.