Co-Management Plan for Subsistence Use of Marine Mammals on St. Paul Island, Alaska

Prepared By:
The St. Paul Island Co-management Council
PREFACE

Co-management of subsistence use of marine mammals between local organizations and federal agencies can be viewed as an issue of human rights and environmental justice, rather than just a legal or governance issue (Mengerink et al. 2017). The need for a more significant role of co-management rather than federal regulations was the single-most critical local issue identified throughout the Ilaqaudan (northern fur seal) subsistence use federal regulation changes scoping process on St. Paul Island, Alaska.

NMFS entered into a co-management agreement with the Aleut Community of St. Paul Island Tribal Government (ACSPI) in 2000 under Section 119 of the Marine Mammal Protection Act (MMPA). The co-management agreement provided the basis for the National Marine Fisheries Service (NMFS) and ACSPI to partner and share decision-making regarding subsistence use of marine mammals under the MMPA. The co-management agreement established the St. Paul Island Co-management Council with equal membership between NMFS and ACSPI to work cooperatively in the conservation and management of Ilaqaudan, qawan or Steller sea lions, and isugin or harbor seals on St. Paul Island.

In 2019, the National Marine Fisheries Service (NMFS) deregulated subsistence use of the Eastern Pacific stock of Ilaqaudan based on a petition from the ACSPI. The revised regulation under the Fur Seal Act changed the prior prescriptive and complicated regulatory process to a shared and flexible in-season management framework on St. Paul Island, Alaska. Recent studies of subsistence harvest management have shown that locally implemented monitoring is more cost-effective and samples a significantly greater proportion of the available subsistence users (Rist et al. 2010).

NMFS and ACSPI revised and aligned the co-management agreement with the new subsistence use regulation governing Ilaqaudan on St. Paul Island in 2020. This annual in-season co-management plan specifies details of hunting and harvest management, monitoring, and reporting that the St. Paul Island Co-management Council, with input from the community via a Tribal subsistence use advisory committee, will implement via consensus within the parameters of the regulations and goals of the co-management agreement. This plan provides a flexible framework to make non-regulatory in-season adjustments to the locations, timing, and methods of subsistence use of Ilaqaudan, qawan, and isugin on St. Paul Island.

This plan represents a cooperative effort to identify, prioritize, and implement management measures necessary to improve food security on St. Paul Island and conserve marine mammal species used for subsistence purposes. The St. Paul Island Co-management Council members were:

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INTRODUCTION

This co-management plan is prepared as described in the co-management agreement between the Aleut Community of St. Paul Island Tribal Government (ACSPI) and the National Marine Fisheries Service (NMFS) on St. Paul Island, Alaska. Guided by the St. Paul Island Co-management Council, the ACSPI and NMFS will share responsibilities regarding the management, monitoring, and research of laaqudan or northern fur seals, qawan or Steller sea lions, and isuğin or harbor seals on St. Paul Island. This shared responsibility is cooperative management, hereafter referred to as co-management. This plan represents the implementation of co-management and equal representation of ACSPI and NMFS in decisions about food security and subsistence use of marine mammals.

PURPOSE AND GOALS

The purpose of this co-management plan is to provide a framework for the St. Paul Island Co-management Council to make in-season decisions regarding marine mammal subsistence use on St. Paul Island consistent with federal laws and regulations, the co-management agreement between the ACSPI and NMFS, and Tribal ordinances. This includes monitoring and research to collect data regarding subsistence user behavior, effectiveness, level of take, and other information to support the St. Paul Island Co-management Council’s decision-making process and inform the public. The goals of this plan are to ensure that: (1) the subsistence needs of St. Paul tribal members are met; (2) subsistence users comply with laws and regulations, the agreement, and Tribal ordinances; (3) the effects of subsistence activities are minimized to ensure sustainability of marine mammal resources; and (4) female laaqudan mortality is minimized. The St. Paul Island Co-management Council will strive to balance and achieve these goals.

MANAGEMENT AND REGULATORY AUTHORITY

NMFS is the congressionally mandated federal agency responsible for the protection, conservation, and management of laaqudan, qawan, and isuğin within the jurisdiction of the United States of America. NMFS has the authority to manage and regulate laaqudan, qawan, and isuğin under the Marine Mammal Protection Act (MMPA) of 1972. In addition, the Fur Seal Act (FSA) of 1966 (16 U.S.C. 1151 et seq.) provides statutory authority to manage and regulate actions affecting laaqudan and is the specific authority for the subsistence use regulations for laaqudan. The Endangered Species Act (ESA) provides additional statutory authority for the management and regulations of activities affecting qawan. The ACSPI is the federally recognized tribe representing the conservation and co-management interests of marine mammal subsistence hunters, harvesters, users, and the customary traditional practices of the members of Aleut Community of St. Paul Island.

The MMPA provides an exception to the prohibition on taking marine mammals to authorize subsistence use by Alaska Natives. The statutory exception of the MMPA is implemented by regulations at 50 CFR 216.23(a). The regulations authorize taking without a permit if taking is: (1) By Alaskan Natives who reside in Alaska for subsistence, or (2) For purposes of creating and selling authentic Native articles of handicraft and clothing, and (3) In each case, not accomplished in a wasteful manner. Additional restrictions related to subsistence can be found at 50 CFR 216.23(b) and (c).
The FSA provides a statutory exception in section 103 (b) that laaqudan are taken for subsistence uses as defined in section 109(f)(2) of the MMPA, as amended (16 U.S.C. 1379), and only in canoes not transported by or used in connection with other vessels, and propelled entirely by oars, paddles, or sails, and manned by not more than five persons each, in the way hitherto practiced and without the use of firearms. Section 109(f)(2) of the MMPA defines subsistence uses as: “the customary and traditional uses by rural Alaska residents of marine mammals for direct personal or family consumption as food, shelter, fuel, clothing, tools, or transportation”. Thus, direct personal or family consumption is the primary use, and the creation of handicrafts is authorized secondary to consumption. These distinctions were discussed in detail in the emergency final rule for the subsistence taking of North Pacific laaqudan on July 9, 1986 (51 FR 24282).

The MMPA section 119 (16 U.S.C. 1388) provides the statutory authority for NMFS to enter into a co-management agreement with the ACSPI. The co-management agreement established a St. Paul Island Co-management Council (hereafter referred to as Council) with equal membership between NMFS and ACSPI to work cooperatively in the conservation and management of the subsistence use of laaqudan, qawan, and isuғin on St. Paul Island. The co-management agreement includes a guiding principle “that provides for full participation and contribution by Unangan of St. Paul, through the ACSPI, in decisions affecting the management of marine mammals used for subsistence purposes,” including the management of subsistence use of laaqudan, qawan, and isuғin. The co-management agreement was amended in 2020 by the Council and approved by authorized representatives from NMFS and ACSPI.

The ACSPI co-manages marine mammal subsistence use through its Ecosystem Conservation Office (ECO) department. The ECO closely monitors subsistence activities to ensure hunters and harvesters comply with laws, regulations, and Tribal ordinances. The ECO monitors hunts and harvests of laaqudan, qawan, and isuғin to characterize and record subsistence practices, success, and struck and loss. The ECO will share this information with the Council to inform their decision making and implement this co-management plan. NMFS independently monitors subsistence activities to verify species-specific subsistence reports provided by ACSPI ECO. NMFS partnership with ECO allows for additional quality assurance and quality control of data analysis and interpretation. NMFS will share similar information related to subsistence use or population data with the Council. This co-management plan includes management measures deemed necessary by the Council for the maintenance of sustainable subsistence use of marine mammals and their habitat on St. Paul Island.

**MANAGEMENT MEASURES**

The Council is authorized to create management measures (i.e., beyond regulatory restrictions) regarding subsistence use levels, seasons and areas, participation and training requirements, subsistence hunting and harvest monitoring and reporting, temporary suspension, or termination provisions, and other measures deemed necessary to ensure subsistence activities continue to be accomplished in a humane and non-wasteful manner.

In order to achieve the purpose and goals of this co-management plan the ACSPI and NMFS must collect, analyze, and interpret data on subsistence use to inform in-season decisions consistent with the management measures contained in this plan. ACSPI and NMFS will use real time in-season monitoring to record the numbers of animals killed, struck and lost, injured, and those incidentally disturbed during subsistence activities. New monitoring challenges or needs
may require different or amended methods to obtain data to be used by the Council to make in-season management decisions. Management measures include collecting information through local monitoring and research efforts, interpretation of collected data in a timely manner, using best available information for consensus decision-making, timely and commensurate corrective action, minimizing disturbance, improving communication between ACSP and NMFS and between ACSP and subsistence hunters and harvesters, and other measures as needed. ACSP and NMFS will establish a process of shared local responsibilities regarding the management and research of marine mammals on St. Paul Island on behalf of the citizens of the U.S. That is, the Council will:

1. Create plan(s) to monitor and manage subsistence use and maintain a process to make consensus decisions about the need to take in-season management actions and enforce regulatory and non-regulatory restrictions;
2. Review hunt/harvest monitoring data and evaluate the application of adaptive management measures within each subsistence season;
3. Evaluate accumulated data and determine measures to track the number of animals killed and injured for subsistence purposes, detect female laaqdan, avoid mortality of female laaqdan, and minimize disturbance to animals;
4. Review relevant data and circumstances that may arise in a given situation, with or without temporarily pausing hunting or harvesting to do so; and,
5. Develop, as necessary, allocation plans for laaqdan intended to minimize sub-lethal effects on seals not hunted or harvested, maximize detection and avoidance of females, minimize struck and loss rates, make in-season allocations among the age groups and locations to be hunted/harvested consistent with applicable regulations (50 CFR 216.71-72), and make determinations regarding the suspension or termination of hunting or harvesting.

**Marine Mammals Used by Unangan for Subsistence**

Laaqdan, qawan, and isuqgin breed on the Pribilof Islands, Alaska. Of these three species, laaqdan are the most abundant and account for almost all the marine mammals taken for subsistence purposes on St. Paul, with small numbers of qawan taken annually, and extremely low and sporadic take of isuqgin in some years. Other species of marine mammals in Alaska have been observed on or near the Pribilof Islands, but they neither breed on the islands nor are actively hunted or harvested for subsistence use. This plan includes measures by which the Council will co-manage subsistence use of laaqdan, qawan, and isuqgin on St. Paul Island.

**Laaqdan**

Among the most important subsistence resources available to Pribilovian Unangan are laaqdan. Laaqdan are used by Unangan for food and traditional handicraft. During the era of intense commercial seal harvest, Unangan were allowed to take a portion of the meat and organs from commercially harvested laaqdan for subsistence use (Osgood et al. 1915). Unangan have traditionally engaged in subsistence hunting (with firearms) of young male laaqdan in the spring and winter, and subsistence harvesting (using clubs) of laaqudaadan (pups) in the fall. The overwhelming importance of laaqudaadan as a subsistence resource can be seen in the archaeofaunal assemblage which demonstrates the antiquity of pup harvesting by the Pribilof Unangan (Eldridge 2016).
Qawan

Qawan were historically used by Unangan for food and materials. Historical research indicates that adults were sought as a major source of raw materials (e.g., for skins for baidars; Elliot 1882; Osgood et al. 1915). Adult qawan were hunted primarily during the summer, with the largest number of animals taken in July and August (Veltre and Veltre 1981). Qawan pups are particularly enjoyed by subsistence users in the Pribilof Islands. Today, subsistence hunters primarily target pup (age 0) and juvenile (age 1-2 years) qawan; adult qawan (3+ years old) are not targeted.

Isuqin

Isuqin are used by Unangan primarily to render seal oil and for their pelts.

Marine Mammal Subsistence Hunting Methods

Marine mammal hunting on the Pribilof Islands is exclusively a land-based activity; pelagic hunting of laaquadan, qawan, and isuqin does not occur. Marine mammals are primarily hunted while they are swimming nearshore, but sometimes are hunted while hauled out on land, using high-powered rifles (minimum 22 caliber for laaquadan and isuqin and .22-250 caliber for qawan) fired from traditional hunting blinds or other vantage points. The methods used for hunting from land vary depending on several factors including but not limited to: time of year, hunting location, presence of other (non-target) marine mammals, whether the animal is on land or in the water, and weather conditions. Hunting animals that are swimming from a land-based vantage point requires extensive local knowledge of several behavioral characteristics of target species and their habitat.

Animals hunted in the water can sink quickly when shot, making them difficult to recover. However, if the animal is able to be retrieved immediately, hunters use a special process to recover the animal. To recover animals from water, hunters use a qayu (retrieving hook or ‘sea dog’, pronounced ‘kī-yōō’) to hook the animal in the water and pull it towards shore. A qayu consists of a wooden grappling or throwing hook attached to a length of rope that is thrown from shore and used to snag and retrieve the animal. Every hunter makes his or her own qayu. If a struck animal is not able to be retrieved immediately (due to quickly sinking), the hunter will attempt to actively track the struck animal for up to three days. Over this three-day period, tracking includes monitoring local currents and wind speeds to predict where the animal could wash ashore after floating back to the surface. Hunters then monitor the shoreline in these areas during daylight hours at both high and low tide to locate the animal when it drifts ashore. A hunter that has struck an animal but did not retrieve it will notify other hunters in the community to increase the odds of detecting the wounded animal or carcass onshore. After the third day, even in the cold Bering Sea waters, the meat will begin to decompose to the point that it is not safe to consume. Animals that are not recovered within this timeframe are reported as struck and lost to the ACSPI ECO.

Current take of laaquadan in the Pribilof Islands is authorized with the use of firearms from January 1-May 31 annually and using the Russian commercial harvest method of clubbing from June 23 to December 31 annually. Subsistence hunters primarily target age 0-4 year old juvenile laaquadan; laaquadan 5+ years old are not targeted. Clubbing involves organized herding of juvenile males at a specific haulout area by 5 to 10 experienced individuals, called sealers. Once animals are herded, the sealers quickly form a line between the shore and the seals to prevent laaquadan access to the ocean. Juvenile male laaquadan are then slowly guided and moved from their haulout areas to a specific grassy area, long ago designated as a ‘killing field,’ where they
are held in a large group by a handful of individuals known as watchers. A smaller group of seals are then separated from the large herded group and walked towards 3 to 4 sealers (called clubbers) who stun the seals by hitting them on the skull with a solid wooden club. The seals are pulled a short distance away from the ‘killing area’ after they are stunned (knocked unconscious) where the chest and heart are immediately cut open by the harvester, allowing exsanguination and a humane death. The seals are then skinned and butchered and bagged in the field. Meat, organs, and fore flippers are consumed as subsistence foods or used for traditional crafting, and occasionally blubber is rendered for seal oil.

Subsistence Use Limits

Laaqudan
The maximum number of laaqudan that may be killed for subsistence uses annually on St. Paul is established by regulation. Per 50 CFR 216.72(e), Pribilovians (Indians, Aleuts, and Eskimos who live on the Pribilof Islands) on St. Paul may take by hunt and harvest up to 2,000 juvenile (less than 7 years old, including pups) male laaqudan per year for subsistence uses over the course of the hunting and harvest seasons, including up to 20 female laaqudan per year.

Qawan
Subsistence use limits for qawan on St. Paul are not defined in this management plan at this time.

Isuğin
Subsistence use limits for isuğin on St. Paul are not defined in this management plan at this time.

Seasons

Laaqudan
Two seasons for subsistence use of laaqudan on St. Paul are established by regulation (50 CFR 216.72(e)): one season from January 1 – May 31 using firearms to hunt and the second season from June 23 – December 31 without using firearms for the harvest.

Hunting Season
Juvenile male laaqudan may be killed with firearms from January 1 through May 31 annually (hereafter referred to as “hunting season”) or may be killed using alternative hunting methods developed through the Council if those methods are consistent with regulation §216.71 and result in substantially similar effects. A firearm is any weapon, such as a rifle, capable of firing a missile using an explosive charge as a propellant (50 CFR 216.72(e)(1)).

Harvest Season
Juvenile male laaqudan may be harvested without the use of firearms from June 23 through December 31 annually (hereafter referred to as “harvest season”). Authorized harvest may be by established harvest methods of herding and stunning followed immediately by exsanguination, or by alternative harvest methods developed through the Council if those methods are consistent with regulation §216.71 and result in substantially similar effects (50 CFR 216.72(e)(2)). Harvests for juvenile males 1 year and older will be scheduled on an as needed basis with an effort to concentrate harvest effort annually between June 23 and July 31. Joint harvests for pups, yearlings, and two-year olds will be scheduled on an as needed basis with an effort to concentrate harvest effort annually between August 1 and November 30.
Qawan
Seasons for subsistence use of qawan on St. Paul are not defined in this management plan at this time. Qawan may be hunted at any time of the year for subsistence purposes, in accordance with federal regulations, co-management agreement and this plan, and Tribal ordinances.

Isuigin
Seasons for subsistence use of isuigin on St. Paul are not defined in this management plan at this time. Isuigin may be hunted at any time of the year for subsistence purposes, in accordance with federal regulations, co-management agreement and this plan, and Tribal ordinances.

Area Restrictions
Area restrictions for laaqudan, qawan, and isuigin on St. Paul are defined in this co-management plan. Area restrictions are necessary to prevent incidental disturbance during subsistence activities that would prevent use of areas important to breeding laaqudan and for rebuilding this important subsistence resource. The numbers of laaqudan pups born at Ardiguen Rookery and Small (Little) Polovina Rookery on St. Paul Island in 2018 are at extremely low levels (Towell et al. 2018). Small Polovina is effectively extinct, a single pup was observed there in 2018 after a series of years with no pups observed. Second Point South or Dushkin (within the Morjovi Rookery complex) is part of the research area at Northeast Point (see Research section) and in the 1990s the lower limit of the pup production estimate was near the 500 “pups born” threshold that is at high risk of extinction. NMFS population viability analysis models currently estimate pup production at Dushkin to be approximately 1,600 pups born with an increasing trend, while the estimate for Ardiguen Rookery is 359 and declining (Johnson 2020).

The Council will review biennial laaqudan pup production and population trend information at each breeding location and evaluate the statistical probability of pup production falling below a level that is necessary for long-term stability of the population in order to maintain ongoing evaluation of harvestability at each location.

Laaqudan
Harvest for laaqudan is prohibited at all times at Ardiguen, Small Polovina, and Dushkin. Hunting at Dushkin will be closely monitored. Maps are available in Appendix A and will be updated as needed.

Qawan
Hunting is prohibited at Ardiguen and Small Polovina from June 1 through November 30. Hunting at Dushkin will be closely monitored. Maps are available in Appendix A and will be updated as needed.

Isuigin
Hunting is prohibited at Ardiguen and Small Polovina from June 1 through November 30. Hunting at Dushkin will be closely monitored. Maps are available in Appendix A and will be updated as needed.

Hunter Registration Program
The ACSPI ECO has maintained a list of qawan hunters on St. Paul since 1998. The list includes the first and last name, contact information, status (active or inactive), and a unique hunter identification number for each qawan hunter. This list will be updated to include both laaqudan and isuigin hunters. Each individual will be given a unique hunter identification number to ensure
the protection of personally identifiable (confidential) information. A record of unique hunter identification numbers will be maintained within ECO and updated/reviewed on an annual basis.

**Laaqandan Harvest Training Program**

The Council will develop joint harvest methods consistent with § 216.71 and result in substantially similar effects and train subsistence users. Methods for joint harvest activities will involve training by ACSPI employees in rounding up, capturing, handling, and determining the sex of laaqandan prior to harvest activities and may require annual participation in a refresher course for individuals to maintain authorization as a laaqandan harvester. Community education and outreach may include sealers’ meetings, public service announcements, one-on-one communication, and other means as deemed effective.

With respect to traditional education, hunters and harvesters will set the best example to ensure continuity of respectful practices. Opportunities to teach hunting techniques and the laaqandan harvest process to youth are to be taken whenever feasible.

**Subsistence Monitoring and Reporting**

The ECO and NMFS will collect subsistence monitoring data to ensure the taking of any marine mammal is accomplished responsibly, in a non-wasteful manner, in accordance with established laws and regulations, and to assess whether the goals of this management plan are being achieved. The ECO and NMFS will share responsibility for collecting and sharing data with the Council for analysis on a regular basis. Subsistence monitoring and reporting information will be used for making in-season co-management decisions (see In-Season Co-Management section). Data used to estimate subsistence mortality and struck and lost rates will be gathered through hunter registration and subsistence monitoring. Subsistence mortality and struck and lost rates will be closely monitored by ECO via a real-time subsistence monitoring program. The real-time subsistence monitoring method established by ECO in 1998 under its Tanam Amgignaa (Island Sentinel) Program promotes the collection of local subsistence data within a 48-hour period for a retrieved animal and 72 hours for a struck and lost animal. If the animal is not retrieved in 72 hours and is considered struck and lost by the hunter, Island Sentinels will search the shorelines as feasible until the animal is recovered or so much time has passed that sampling is not considered possible. Once an animal is retrieved, ECO Island Sentinels collect subsistence data directly from users (within 48 hours) or their own observations (after 48 hours) in a standardized format (see Marine Mammal Hunting Monitoring Form, Appendix B) and enter quality-controlled data in the BeringWatch database. Sentinels will continue to track a subsistence event closely during the three-day period that the marine mammal would be considered edible by the users if retrieved. After the three-day edible period, the Sentinels will take on the primary survey/monitoring role to detect the carcass over a wider area. Subsistence data are collected through a multitude of communication methods ranging from: (1) voluntary hunter reporting, (2) ECO reporting requirements, and (3) active field monitoring and outreach by ECO Island Sentinels. The following hunt and harvest data will be collected and recorded by ECO (see Appendix B):

1. Hunt/harvest reported by (hunter identification number for confidentiality);
2. Date and time hunt/harvest reported;
3. Hunt/harvest date and time;
4. Hunt/harvest region and location, laaqandan, qawan, and isuğin location (in water or on land);
5. Sex and age class of laaqudan, qawan and isuğin hunted/harvested;
6. Retrieval or struck and lost date, time, and location;
7. Sampling details and tag or brand information; and,
8. Hunter/harvester comments.

In addition to sharing subsistence monitoring data with the Council, ECO will prepare and disseminate annually a subsistence use report for laaqudan, qawan, and isuğin to the local community and NMFS.

**Laaqudan**

Subsistence monitoring for laaqudan will include monitoring during the hunting and harvest seasons by ECO and NMFS to ensure that the female take limit or age limit in the regulations are not exceeded, and to estimate injury and incidental disturbance of laaqudan during subsistence activities. Injury will be assessed by ECO through weekly marine mammal stranding surveys. The marine mammal stranding process will be used to determine injury caused by human interaction (i.e., shot). Incidental disturbance will be assessed by hunter/harvester comments (i.e., how many laaqudan on land and in the water during subsistence activities and how many disturbed). Occasional independent monitoring by NMFS representatives may occur during the hunting and harvesting of laaqudan. NMFS will develop annually a monitoring schedule and share with the Council and ECO to ensure efficient coordination of data collection.

**Hunting Season**

During the hunting season ECO will take photos of the heads and collect snouts including canine teeth and vibrissae from all retrieved laaqudan. The Council may request that hunters take a photo of the head or bring the head to ECO for sampling. The teeth will be examined to verify sex and estimate age class of the animal (e.g., pup, juvenile, adult). If the hunters reported age estimate is older than 7 years old, or if most vibrissae are predominately white, ECO will send photo(s) of the head to the Council and immediately process and age the teeth to ensure that the animal is not an adult laaqudan (Scheffer 1962). Vibrissae data will be used to validate the assumption that adult laaqudan possess predominately white vibrissae in both males and females. All samples from the hunting season will be retained by ECO and/or NMFS until review by the Council is completed and a method to verify results by a minimum of two independent sources is identified and implemented.

**Harvest Season**

During the harvest season ECO will externally examine all harvested animals to verify sex. The harvest method for pups must include capturing, handling, sexing, and verifying sex of all pups prior to harvest. Male pups will be positively identified prior to harvest by trained and approved individuals. ECO will collect snouts including canine teeth and vibrissae from at least 50% of all non-pups harvested at each harvest. The teeth will be examined at the end of the harvest season to verify sex and estimate age class of harvested animals. All samples from the harvest will be retained and archived by ECO.

**Qawan**

No additional monitoring is required for this species at this time.

**Isuğin**

No additional monitoring is required for this species at this time.
Temporary Suspension and Termination Provisions

Laagudan
To ensure all necessary measures are taken to minimize female laagudan mortality, the following annual (i.e., January 1 - December 31) threshold levels of female laagudan mortality will trigger temporary interruption or termination of the hunt or harvest season:

1. If one (1) or more females have been accidentally killed within the hunting season from January 1 to May 31, subsistence use will be suspended for a period of two (2) days so that the Council may discuss with subsistence hunters the reasons why a female or females were taken, review the identification methods for females, and take additional action to correct problems contributing to the accidental take of females;

2. If five (5) females have been accidentally killed within the hunting season from January 1 to May 31, subsistence use will be terminated for the remainder of the hunting season;

3. If five (5) females have been accidentally killed within the harvest season from June 23 to December 31, subsistence use will be suspended for a period of two (2) days so that the Council may discuss with subsistence users the reasons why females were taken, review the identification methods for females, and take additional action to correct problems contributing to the accidental take of females;

4. If ten (10) females have been accidentally killed within the harvest season from June 23 to December 31, subsistence use will be suspended and the Council will evaluate and determine an appropriate set of actions that must occur before subsistence activities are resumed for the season; and,

5. If fifteen (15) females have been accidentally killed during the harvest season from June 23 to December 31, subsistence use will be terminated for the year.

Qawan
No temporary suspension and termination provisions are required for this species at this time.

Isugin
No temporary suspension and termination provisions are required for this species at this time.

In-Season Co-Management
The Council is authorized to make in-season adjustments to ensure that subsistence use continues to be conducted sustainably on the basis of all relevant information. Using all available information, the Council may limit the season (i.e., frequency) or areas of subsistence hunting or harvesting activities, suspend or terminate subsistence activities, or restrict hunting or harvest methods in order to achieve the goals of this management plan.

The in-season management process will include: (1) data collection, (2) data synthesis and review, (3) consensus decision-making, and (4) implementation. At each meeting, the Council members will share their views regarding any needed adjustments to hunting and/or harvesting practices based on recent and anticipated subsistence use and will seek to reach consensus on any in-season adjustments within the parameters of the applicable regulations. Any in-season frequency/area adjustments made by the Council will be carried out within the authority of this management plan. Such action is not considered to warrant a plan amendment. When amendments warrant updating the Co-Management Plan to a newer approved working version, changes will be tracked and recorded in Appendix F, including how decisions were made, communication plan for stakeholders, and memorandums as produced and released.
In-Season Adjustments

The Council will convene at least twice annually no later than May 23 and December 1 to review laaqudan harvest data and laaqudan, qawan, and isuğin hunting data, respectively. The Council sub-committee will meet monthly to review data and distribute to the Council as needed. The ECO will share hunting and harvest effort and success for laaqudan, qawan, and isuğin with the Council on a regular basis, as described below. The Council may hold additional meetings to review in-season monitoring data and determine if in-season adjustments to hunting and harvesting practices are necessary.

Laaqudan

Prior to the new laaqudan subsistence use seasons the Council will review the number of marine mammal hunters registered, expected hunting and harvesting locations, prevalence of animals observed, number and identity of individuals trained to handle and sex animals, and any relevant Tribal ordinances.

Hunting effort and success rates will be shared with the Council monthly during the hunting season from January 1 through March 31 and then weekly from April 1 through May 31, when hunting effort is expected to increase, annually. Reporting frequency will be reviewed by the Council and adjusted annually if needed. Harvest effort and success will be shared with the Council weekly during the harvest season from June 23 through December 31 annually.

Qawan

Hunting effort and success for qawan will be shared with the Council annually.

Isuğin

Hunting effort and success for isuğin will be shared with the Council annually.

Tribal Ordinances

The ACSPi will develop, implement, and enforce Tribal ordinances governing the subsistence use of laaqudan, qawan, and isuğin. Traditional uses of laaqudan are currently governed under the ordinance Customary Traditional Use of Northern Fur Seal (Title VII, Chapter 7.2, Environmental and Resource Code) that was adopted by the St. Paul Tribal Council on May 29, 2009. To date no Tribal ordinance has been adopted regarding traditional uses of qawan. ECO implemented a departmental order in 2000 requiring all qawan hunters to report all retrieved and struck and lost qawan to ECO within 24 hours. The current reporting method continues to be based on the honor system and ECO’s departmental order and has led to 100% hunter participation in the real-time subsistence monitoring program since 2001.

Laaqudan Subsistence Use Regulations

Below are the Federal regulations applicable to St. Paul and can be found in the Code of Federal Regulations (CFR) 50 CFR §216.71-.74.

50 CFR Part 216 – Subpart F – Pribilof Islands, Taking for Subsistence Purposes

50 CFR §216.71 – Allowable take of laaqudan

Pribilovians may take laaqudan on the Pribilof Islands if such taking is

(a) For subsistence uses, and

(b) Not accomplished in a wasteful manner.

§216.72 Restrictions on subsistence use of laaqudan.
(e) **St. Paul Island.** For the taking of laaqdan for subsistence uses, Pribilovians on St. Paul Island are authorized to take by hunt and harvest up to 2,000 juvenile (less than 7 years old, including pups) male laaqdan per year.

1. Juvenile male laaqdan may be killed with firearms from January 1 through May 31 annually, or may be killed using alternative hunting methods developed through the St. Paul Island Co-management Council if those methods are consistent with § 216.71 and result in substantially similar effects. A firearm is any weapon, such as a pistol or rifle, capable of firing a missile using an explosive charge as a propellant.

2. Juvenile male laaqdan may be harvested without the use of firearms from June 23 through December 31 annually. Authorized harvest may be by established harvest methods of herding and stunning followed immediately by exsanguination, or by alternative harvest methods developed through the St. Paul Island Co-management Council if those methods are consistent with § 216.71 and result in substantially similar effects.

3. Pribilovians are authorized each year up to 20 mortalities of female laaqdan associated with the subsistence seasons. Any female laaqdañ mortalities will be included in the total number of laaqdan authorized per year for subsistence uses (2,000).

(f) **Subsistence use suspension provisions.**

1. The Assistant Administrator is required to suspend the take provided for in § 216.71 on St. George and/or St. Paul Islands, as appropriate, when:

   i. He or she determines that subsistence use is being conducted in a wasteful manner

2. A suspension based on a determination under paragraph (f)(1)(i) of this section may be lifted by the Assistant Administrator if he or she finds that the conditions that led to the determination that subsistence use was being conducted in a wasteful manner have been remedied.

(g) **Subsistence use termination provisions.** The Assistant Administrator shall terminate the annual take provided for in § 216.71 on the Pribilof Islands, as follows:

1. For St. Paul Island:

   i. For the hunting of juvenile male laaqdan with firearms, at the end of the day on May 31 or when 2,000 laaqdan have been killed, whichever comes first;

   ii. For the harvest of juvenile male laaqdan without firearms, at the end of the day on December 31 or when 2,000 laaqdan have been killed, whichever comes first; or

   iii. When 20 female laaqdan have been killed during the subsistence seasons.

§ 216.73 Disposition of laaqdan parts.

Except for transfers to other Alaskan Natives for barter or sharing for personal or family consumption, no part of a laaqdañ taken for subsistence uses may be sold or otherwise transferred to any person unless it is a nonedible byproduct which:

a. Has been transformed into an article of handicraft, or

b. Is being sent by an Alaskan Native directly, or through a registered agent, to a tannery registered under 50 CFR 216.23(c) for the purpose of processing, and will be returned directly to the Alaskan Native for conversion into an article of handicraft, or

c. Is being sold or transferred to an Alaskan Native, or to an agent registered under 50 CFR 216.23(c) for resale or transfer to an Alaskan Native, who will convert the seal part into a handicraft.

§ 216.74 Cooperation between laaqdañ subsistence users, tribal and Federal officials

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1 Singular form of laaqdan.
Federal scientists and Pribilovians cooperatively manage the subsistence use of laaqudan under section 119 of the Marine Mammal Protection Act (16 U.S.C. 1388). The federally recognized tribes on the Pribilof Islands have signed agreements describing a shared interest in the conservation and management of laaqudan and the designation of co-management councils that meet and address the purposes of the co-management agreements for representatives from NMFS, St. George and St. Paul tribal governments. NMFS representatives are responsible for compiling information related to sources of human-caused mortality and serious injury of marine mammals. The Pribilovians are responsible for reporting their subsistence needs and actual level of subsistence take. This information is used to update stock assessment reports and make determinations under § 216.72. Pribilovians who take laaqudan for subsistence uses collaborate with NMFS representatives and the respective Tribal representatives to consider best subsistence use practices under co-management and to facilitate scientific research.

**Habitat Protection Measures**

NMFS owns and administers land on St. Paul for the conservation of marine mammals. This land is often referred to as the rookery; however, the land actually includes both breeding (locally known as the rookery) and resting (hauling grounds or haulout) habitat occupied during the spring, summer, and autumn as well as an adjacent buffer area not typically occupied by breeding or resting marine mammals.

Regulatory closures (50 CFR 216.81) prohibit unauthorized trespass by the general public on laaqudan breeding and resting areas from June 1 until October 15 annually on St. Paul. The ACSPI will post and remove rookery signs and/or barricades on June 1 and October 15 annually, respectively. ACSPI will develop and distribute public service announcements annually in the community to notify subsistence hunters of the opening of Sea Lion Neck on September 1 for qawan subsistence hunters only. Walrus and Otter Islands were set aside as a bird reservation under Executive Order 1044. NMFS added a regulatory closure at 50 CFR 216.85 prohibiting unauthorized landing on Walrus and Otter Islands. This regulatory closures do not prohibit subsistence use activities of laaqudan, qawan, and isuġin as those activities are authorized under the FSA regulations at 50 CFR 216.71-74, MMPA regulations at 50 CFR 216.23, and section 10(e) of the ESA.

**Local Regulations and Enforcement**

The ACSPI recognizes the Secretary of Commerce’s authority to enforce the provisions of the MMPA, ESA, and FSA applicable to the subsistence use of laaqudan, qawan, and isuġin. The ACSPI will continue to provide related information to NMFS as requested and via regular co-management reporting avenues, and will conduct the following in cooperation with NMFS:

1. Issue and record registration permits or refer individuals to NOAA’s Office of Law Enforcement for documentation of collected marine mammal hard parts, in accordance with current Federal regulations;
2. Issue and record permits for laaqudan viewing blinds, in accordance with current Federal regulations;
3. Local posting of laaqudan rookery signs upon opening and closing of the rookeries, in accordance with current Federal regulations;
4. Develop and implement effective local processes for informing the public regarding applicable Federal laws and regulations; and,
5. Review, recommend, and advise on revisions to Federal regulations governing subsistence use of laaqudan, qawan, and isuğin.

NMFS recognizes the existing Tribal authority to govern and regulate their members and members’ conduct regarding the traditional uses of laaqudan, qawan, and isuğin and acknowledges Tribal authority to conduct the following:

1. Develop and implement Tribal ordinances governing the subsistence use of laaqudan, qawan, and isuğin;
2. Issue and record permits for observing the subsistence use of juvenile male laaqudan, in accordance with current Tribal ordinances;
3. Conduct laaqudan rookery disturbance monitoring;
4. Develop and implement a Tribal Enforcement Plan to cover violations of Tribal law by Tribal members; and,
5. Develop and implement effective local processes for informing the public regarding applicable Tribal ordinances.

Research

The ACSPI will work with NMFS via the Council to coordinate research activities related to subsistence use prior to each upcoming hunt/harvest and research season. The Council may designate areas of research to monitor, reduce, or avoid conflicts between subsistence users and research. Current high intensity research areas include Polovina Cliffs, Zapadni Reef, and Northeast Point. NMFS and ECO are collaborating on a research project to examine the response of breeding age female laaqudan to human activities at Northeast Point. All subsistence use activities will be closely monitored (i.e., date, time, location details) in these areas. Whenever possible, all scientists affiliated with ACSPI or NMFS who plan to conduct marine mammal research on behalf of either Party on or around St. Paul (as defined in Section I of this agreement) that may impact subsistence activities will advise the Council in a timely manner and before research is initiated. The Council will review relevant information and if the research is determined to have an unmitigable adverse impacts on the availability of marine mammals for subsistence users the Council may provide comments and recommendations accordingly to mitigate those impacts.

The subsistence use research program will be reviewed annually to prioritize projects and will be updated as necessary. The subsistence use research program will identify information and conservation needs, outline activities by each Party and any external researchers, identify future goals, and include topics and items deemed appropriate and necessary by the Council, such as:

1. Long-term data collection programs;
2. Sampling programs;
3. Population abundance and status;
4. Habitat use and seasonal movements;
5. Sources of natural and human-caused mortality; and,
6. Disentanglement programs.

Disentanglement

The ACSPI may conduct entanglement research or disentanglement response when observed while the laaqudan are present on island or during subsistence activities. The ACSPI is authorized under Section 403 of the MMPA (16 U.S.C. § 1421b) to respond to entangled laaqadu under Marine Mammal Stranding Agreement No. SA-AKR-2019-04 (expiration date: December 31, 2021) with NMFS and under authorization of NMFS Permit No. 19436-02
The Council will ensure that entanglement research and response will be implemented and coordinated with other research and subsistence activities to avoid unmitigable adverse impacts or conflicts.

**Biosampling**

The ECO may request biosamples from subsistence hunted laaquadn, qawan, and isuğin on an as needed basis and consistent with the ACSPI’s NMFS Permit No. 19436-02. ECO staff will work directly with hunters and harvesters to coordinate any sample collections.

**Other Topics**

**Permits and Photography**

The Council will work to coordinate access for the public to observe subsistence activities and proper etiquette.

**Trading and Tanning**

Persons taking laaquadn, qawan, and isuğin for subsistence purposes will be encouraged to trade legal marine mammal parts for food, arts, and crafts with other tribal members and Alaska Natives in other villages consistent with 50 CFR 216.23 and § 216.73. Tribal members taking laaquadn, qawan, and isuğin for subsistence purposes will also be encouraged to tan their own pelts on island. Any tannery or person can apply to become a registered agent by submitting an application consistent with 50 CFR 216.23(c). The ACSPI may make information available for people on tanning, tannery contacts, and other Alaskan Natives willing to legally trade laaquadn, qawan, and isuğin parts for food, arts, and crafts.

**Council Review of the Co-Management Plan**

This co-management plan will be reviewed annually by the Council and updated as needed.

**DESCRIPTION OF MARINE MAMMAL SPECIES**

**Laaquadn**

Laaquadn, or northern fur seals (*Callorhinus ursinus*), return to St. Paul seasonally to rest, breed, give birth, and molt. They predictably land at traditional onshore locations known to Unangan hunters, who also have observed them swimming offshore in all months. Laaquadn have strong affinity or tenacity for their traditional landing sites. Unangan hunters have learned that laaquadn will land at a site in the presence of humans if they remain still and the wind direction obscures the scent of the hunter. About 400,000 laaquadn visit, rest and breed on St. Paul each year. Females live up to 27 years and are on shore for approximately 30-40 days (Gentry 1998). Females are approximately 3-5 times smaller than breeding males, which live up to 18 years. Adult males fast during the breeding season, although the length of fasting is highly variable (i.e., 1-87 days; Gentry 1998).

Laaquadn seasonally breed on six islands in the eastern North Pacific Ocean and Bering Sea in the United States: St. Paul including Sea Lion Rock, St. George and Bogoslof, Alaska; San Miguel and South Farallon, California. They also breed on the Commander Islands, Kuril Islands, and Robben Island in Russia. Females become reproductive at 5-6 years old, with highest reproductive success between the ages of 8-13 (York 1983). Pups are born on the Pribilof Islands in late June-July annually and nurse intermittently for 110-120 days, or about 4 months
prior to weaning (Petersen 1968; Gentry 1998). After weaning, pups learn to swim and leave the
islands to spend two years at sea before returning to their breeding grounds.
Overall pup production for the Pribilof Islands decreased approximately 3.7% from 2016 to 2018
(Towell et al. 2018). Since 1998 pup production on St. Paul Island declined 57.7%, or at an
annual rate of 4.04% (SE = 0.34), while pup production on the Pribilof Islands (St. Paul and St.
George Islands combined) declined 51.6%, or at an annual rate of 3.4% (SE = 0.36) (Towell et
al. 2018). Pup production on St. George shows no significant trend in production since 1998 but
the last three estimates have all shown an increase in pup production (Towell et al. 2018). The
reasons for continued decreased number of births and survival remain poorly understood; factors
under current investigation and debate include climate change (Francis et al. 1998; Hare and
Mantua 2000); competition with commercial fisheries (Robson et al. 2004; Gudmunson et al.
2006); predation (Springer et al. 2003; DeMaster et al. 2006; Wade et al. 2007). The exploration
of the factors that may influence llaaqudaŋ population dynamics are a high priority for resource
managers at both the local and regional levels.

Qawan

Qawan, or Steller sea lions (Eumetopias jubatus), are the largest eared seals hunted by Unangan.
Qawan regularly haulout on the Pribilof Islands in all months of the year, and do not migrate into
the North Pacific Ocean seasonally like llaaqudan. Compared to llaqudan, qawan can be
displaced from their breeding or hauling grounds easily. Qawan once bred on St. Paul Island at
Northeast Point but were removed by government representatives to make room for llaqudan
breeding nearby (Kenyon 1962). They have since been observed breeding in small numbers on
Walrus Island. Unangan hunters regularly observe qawan swimming singly or in small groups
around St. Paul Island and hunt from traditional locations where qawan come close to shore and
the currents are likely to wash the carcass on land.
Qawan are resident to the Pribilof Islands year-round, but during the winter can occur in the
hundreds on St. George Island, Walrus Island, Sea Lion Rock (Lestenkof et al. 2018). Branded
qawan from breeding islands in the Okhotsk Sea, Bering Sea, and Gulf of Alaska are
occasionally documented on the Pribilof Islands. The population is divided into the Western and
the Eastern ‘distinct population segments’ (DPS) at 144° West longitude (Cape Suckling,
Alaska). Qawan occurring on St. Paul Island are part of the Endangered Species Act (ESA) listed
endangered DPS (NMFS 2008).
The qawan population in the Pribilof Islands has declined to extremely low levels and the sole
remaining breeding rookery at Walrus Island is currently in danger of extinction. Within
recorded history qawan were abundant in the Bering Sea and bred in large numbers on the
Pribilof Islands. Elliott (1880) reported that approximately 10,000 to 12,000 animals were
distributed at breeding rookeries on both St. Paul and St. George Islands in the 1870s. The
breeding rookeries on St. Paul and St. George Islands were largely extirpated by 1916 due to a
combination of hunting and culling (Loughlin et al. 1984). Over the last 50 years, pup production
on Walrus Island has declined by over 90%, from 2,866 in 1960 to only 28 pups born in 2013.
Similar to the decline of the Western DPS Alaskan population as a whole, the cause of the qawan
decline in the Pribilof Islands remains unexplained. The highest ranked threats to the recovery of
the western DPS are: environmental variability, competition with fisheries, killer whale
predation, and toxic substances (NMFS 2008).
Isuğin

Isuğin, or harbor seals (*Phoca vitulina*), are members of the Phocidae, or true seal family. They are also referred to as hair seals in the Pribilof Islands. Isuğin are one of the most common marine mammals along the U.S. west and east coasts. Isuğin generally are non-migratory, with local movements associated with such factors as tides, weather, season, food availability, and reproduction (Scheffer and Slipp 1944; Fisher 1952; Bigg 1969, 1981; Hastings et al. 2004). The Pribilof Islands stock is one of 12 stocks in Alaska. Counts of isuğin in the Pribilof Islands ranged from 250 to 1,224 in the 1970s and between 119 and 232 in the 1980s and 1990s. Prior to July 2010, the most recent count was in 1995 when a total of 202 seals were counted. In July 2010, approximately 185 adults and 27 pups were observed on Otter Island plus approximately 20 on all the other islands combined for a total of 232 isuğin. In 2018, the ECO and NMFS estimated the Pribilof Islands stock to be 229.
REFERENCES


APPENDIX A: Maps of Subsistence Hunting and Harvest Locations on St. Paul Island
## APPENDIX B: Marine Mammal Hunting Monitoring Form from Tanaliḵ Amgiṅaḵ ~ Sentinel Program

### Tanaliḵ Amgiṅaḵ – Marine Mammal Hunting Monitoring Form

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APPENDIX C: Respectful Laaqudan Harvest Practices

Laaqudan are harvested for the subsistence needs of members of the Aleut Community of St. Paul Island. The process is carried out by tribal members and supported by the Tribal Government of St. Paul Island. The laaquda̅x̂ harvest crew, as members of the community, must respect the process as providing for their community and conduct themselves accordingly:

1. No “special favors”, nor taking of laaqudan just for parts and not the whole animal.
2. Community members can barter and trade amongst themselves. Harvest crew must conduct their barter and trading of their "requested" laaqudan parts outside the harvest activity and off the harvest field in order to avoid conflict.
3. For safety and in support of cultural respect and responsibility-no alcohol or drugs, nor anyone under the influence allowed in the harvest activities.
4. For the continued health of our people and in support of sanitary practice, no smoking or snuffing, ashes, butts, or spit on the harvest field where food is in the beginning stages of being prepared.

In turn, community members must respect the fact that the harvest crew is performing harvest duties on behalf of the whole community and that all animals harvested were requested by someone in the community. Community members must conduct themselves accordingly:

1. Sealers are not to take requests outside of a whole animal. (e.g., someone asking for specific parts such as lustan, livers, or hearts, etc.). Community members are encouraged to barter, trade and/or exchange parts amongst each other outside of the immediate activity on the harvest field. Harvest crew, as community members can barter and trade with the seal they requested, but only away from the harvest activity so as to avoid conflict.
2. Sealers are only required to round up (udugunu-lix), cut pods, stun (ana̅gi-lix), and stick or stab the heart (chuhni-lix), and provide further services (e.g., cutting and delivery) for Elders. Community members are encouraged to perform these additional activities, including but not limited to cutting and delivering, on their own behalf so as to participate in cultural and subsistence continuity through the knowledge of meat handling and preparation.
3. All precautions must be taken to avoid wasting and/or throwing away edible laaqudan. Any person found wasting and/or throwing away edible whole laaquad̅a̅x̂ or laaquad̅a̅x̂ parts may lose their privilege of requesting and taking laaquad̅a̅x̂ from the subsistence laaquad̅a̅x̂ harvest.
APPENDIX D: Laaqudan Harvest Responsibilities

Harvest Foreman

The harvest foreman will be designated at an annual sealers meeting, occurring prior to the start of the harvest. The harvest foreman will be responsible for supervising all aspects of the subsistence harvest and working with ECO to ensure that management measures in this plan are followed.

Elder Observer

The Elder observer will be designated at an annual sealers meeting, occurring prior to the start of the harvest. The Elder observer will assist the harvest foreman whenever possible. The Elder observer will be responsible for ensuring that all participants in the harvest abide by the Respectful Practices section of this plan.

Seal Harvesters

Responsibilities of seal harvesters will be designated at an annual sealers meeting, occurring prior to the start of the harvest. Seal harvesters are individuals that round up (udugunu-lix), watch (chasavya-lix), pod cut, stun (anaği-lix), and stick or stab the heart (chuhni-lix) of the laaqudan.

Humane Observer

ECO monitors the laaqudan and harvests for, but not limited to, the following: environmental conditions, methods of gathering, herding and harvesting.

Requesting Laaqudaâ

Any tribal member or Alaska Native in the community that wishes to take laaqudaâ on a particular harvest day shall be strongly encouraged to cut their own laaqudaâ. Requests must be placed with the Tribal Government of St. Paul's Ecosystem Conservation Office (ECO) by call 546-3200 by 5:00 p.m. the day prior to the next harvest.

Harvest Time

The harvest will begin at 8:00 am and should aim to begin no later than 9:00 am for juvenile laaqudan and begin at 1:00 pm and no later than 2:00 pm for pup and yearling laaqudan. All harvest workers are required to be punctual with respect to one another, Tribal and community members, and to the laaqudan. The harvest crew and all people interested going to and/or participating in the harvest will meet at the ACSPI Tribal Government Office at the time mentioned above.

Harvest Methods

Round Up and Drive

With respect to the consumers and the laaqudan, and in order to prevent heat strokes, any person participating in the round up and drive shall abide by the following:

1. The round up will take place at least one hour before the harvest begins.
2. Drive the laaqudan slowly to the killing field.
3. Do not unnecessarily harass the laaqudan during the drive.
4. During the roundup and drive all persons must stay away from the rookery to avoid disturbing female laaqudan with pups and the other laaqudan as well.
5. Weed out larger males. Take time to isolate selected animals to harvest.
6. Give the laaqudan frequent rests during the drive.

**Pod Holding**

With respect to the consumers and the laaqudan, and in order to prevent heat strokes, any person participating in the holding of the pod of seals shall abide by the following:

1. Keep the held pod loose.
2. Do not unnecessarily harass the laaqudan during the holding.

**Pod Cutting and Stunning**

With respect to the consumers and the laaqudan, and in order to prevent heat strokes, any person participating in the holding of the pod of laaqudan shall abide by the following:

1. Drive small pods to the stunners according to number of stunners for safety and efficiency purposes; one laaqudax per stunner.
2. Stunners shall hit the laaqudax on the head with one blow when possible and shall avoid at all cost hitting a laaqudax on any other part of the body in order to avoid bruising and therefore inedible meat.
3. If environmental temperatures are ≥45°F, give the laaqudan frequent rests during pod cuttings.

**Butchering and Delivery**

Any person requesting laaqudax shall be strongly encouraged to come to the harvest field to butcher the laaqudax they ordered. If the person that has requested laaqudax is not at the harvest to butcher the laaqudax then the harvest workers will butcher the whole animal on the field and ensure that all parts are included (i.e. flippers, heart, livers, and all other edible parts). Upon completion of the butchering of a laaqudax, the laaqudax shall be allowed to cool off. Once the butchered laaqudax is cool enough the harvest workers shall bag all butchered parts for delivery.

**Disposal**

The harvest foreman will get approval from the appropriate representative of Tanadgusiência Corporation for the designated site to dispose of inedible parts. This site and approval will be disclosed to the Tribal Government of St. Paul. A container will be available for inedible parts for proper disposal for those who wish to butcher their laaqudax at the harvest grounds. No other items shall be placed in the container. Designated laaqudax harvesters will dispose of the inedible laaqudax parts at the designated carcass dump. The current designated carcass dump is located at Ridgewall. Seal harvesters disposing of inedible parts shall ensure that no garbage that would otherwise be disposed of in the landfill is improperly disposed of at the carcass dump. The laaqudax harvesters shall cover, with available scoria, any inedible parts on a regular basis to prevent attracting foxes, flies, and other animals.

**Equipment**

All harvest equipment (i.e. clubs, knives, etc.) is the property of the Tribal Government of St. Paul. All equipment shall be signed out for and cleaned and returned to ECO by a selected representative upon completion of the daily harvest task. All harvest workers or community members using Tribal Government equipment will abide by current equipment use policies. Participating community members’ use of own equipment is allowable.
APPENDIX E: Responsible Qawan Hunting Techniques

The following techniques were compiled by qawan hunters on St. Paul Island and the ECO. These techniques represent the best practices employed by St. Paul Island subsistence qawan hunters and are shared with youth and young adults that are new to qawan hunting.

Before a Hunt

Always dress appropriately—a good rule of thumb is to overdress for the weather. Hunting locations are on the shoreline where it is windy, you may get wet, you are exposed to all kinds of weather for an extended amount of time. The last thing you want to do is not be under dressed or dressed inappropriately. Gloves, goggles, balaclava, weather proof boots, warm socks, goose down layers, thermals, long underwear are all excellent choices for warm clothing layers. Check the weather: the condition of the surf and winds are critical. Northerly or south winds are desirable; west winds are not desirable. Surf over 10 feet high is bad, as qawan are going to go around the surf and remain too far offshore (> 100 yards) for a safe and ethical shot. Know which way winds are going to predict where the animal will come to shore or drift in the surf after you have taken it. Knowing where the animal will come on shore or drift is important to minimizing the risk of a struck and lost animal. Always chose a firearm that is an appropriate caliber, has been cleaned and properly maintained, is outfitted with a scope and sighted in, and that you are comfortable operating.

During a Hunt

Head out as early in the morning as possible, within an hour of daybreak. Qawan are more active during this time. There are specific haulout locations that are known—scope these and look for qawan on shore. Check these locations first to see if you can get a qawa̱x̱ on shore and remember that you may have to move through rookeries with seals present. Exercise extreme caution and discretion when moving through rookeries with seals present to minimize or eliminate disturbance.

If a shot of a qawa̱x̱ is not possible on land, and you have decided to take a qawa̱x̱ from in the water, pick location at one of the hunting locations to wait for qawa̱x̱ to swim by. Watch qawan “riding” (swimming on waves in a manner that looks like surfing waves) in the surf. While scouting qawan in the water, looking for dark-bodied individuals with smaller heads (these are more likely to be animals age 2-3 years, after which the coat color lightens up significantly), mainly looking at size—not trying to sex the animal in the water. About 90% of qawan riding by are too large to take. Once the right sized individual comes by (small head, small body, dark coloration), begin making calls and mimicking movements to pretend to be another qawa̱x̱ to encourage the animal in the water to come closer. The animal’s curiosity will bring it closer to shore. You want the animal to come within 50-80 yards of the shoreline to be in the “kill zone”. If you are a skilled hunter, you may shoot up to 100 yards into the water to get a fairly accurate shot.

To shoot an animal: time the movements of the rifle to movements of the qawa̱x̱ in the water. Take aim at the head and wait for a clean, clear shot. Once shot, if it’s dead, it will stop moving and bleed into the water. If the animal is wounded, it will thrash around and bleed and look like it is in distress. A large percentage of qawan sink under the water after being shot and you can’t see it under the water. It may float anywhere from a minute to 10-15 minutes, and then sink to

2 Singular form of qawan.
the bottom or drift under the water in the currents. The animal may sink and remain unobtainable under the water for 24-72 hours. The water temperature will keep the animal fresh and edible for a few days. It is critical that you closely and frequently monitor the winds, currents, and shorelines until you can retrieve a qawâx that you have shot.

DO NOT shoot another animal once you have shot a qawâx and have retrieved it. It is considered wasteful to do this.

DO NOT shoot into a pod of qawan in the water; If you can’t isolate one animal out of the pod, do not shoot.

DO NOT shoot unless you have a clear head shot.

Patience and consistency are key.

After a Hunt

Many hunters have a qayux̂ (pronounced ‘kī-yōō’) that can assist in getting the qawâx to shore after it is close enough to be retrieved. A qayux̂ is a tool that is homemade- a piece of wood that has hooks and about 80-100 feet of rope on one end. The hunter holds on to the rope and throws the wooden hooked end towards the dead qawâx. Once the animal is hooked, it usually takes more than one person to haul it to shore. The rope can be tied to a 4-wheeler and pulled up the beach. More typically, two people pull the animal up the beach out of the water. After the animal is retrieved, the hunter contacts Island Sentinels to provide the relevant information about the hunt (Appendix B).

Subsistence Qawâx Hunting Guide

Building from the information in this management plan, and other hunting resources across the state (e.g., A student guide to seal hunting and safety, Yupik Region”; Alaska Department of Fish and Game Hunter Instruction and Training handbook), ACSPI will develop a hunting and safety guide that specifically addresses subsistence hunting of qawan in the Pribilof Islands.