

SEAN Sea otter monitoring SOP 3: Flight following procedures for aerial surveys

Revision History Log:

Previous SOP version	Effective Date	Revised By	Changes Made	New SOP version
-	September 2018	Jamie Womble	Initial version	1.0

Flight plans are submitted to NPS Alaska Region Communication Center (ARCC, located in Denali National Park). An example flight plan is in Appendix SOP3.1. The Project Leader checks in with ARCC prior to departure, also at least every 60 minutes during the aerial survey using a satellite phone, and lastly when the plane has landed safely in Juneau to close the flight plan.

DENA Comm Center, NPS
NPS Alaska Region Communication Center (ARCC)
907-683-9555 (dispatch)
907-683-9640 (fax)
FOR EMERGENCIES DIAL 911

For ARCC Forms, SOPs and Field Resources browse to <https://sites.google.com/a/nps.gov/arcc-region/home> using a computer attached to the NPS internal network.

Flight following should be done using Juneau FAA Flight Services (122.5, 123.0). Ward Air is enrolled in FAA Capstone Level 2 (automatic dependent surveillance-broadcast technology; ADS-B) that permits vendor-based and FAA online aircraft location monitoring.

The following tracking or communication devices are carried on board the aircraft at all times.

- Spidertracks S3 automated flight following device (records position every 2 minutes; monitored by ARCC staff via online Spidertracks site) (<http://www.spidertracks.com/aviator>)
- DeLorme inReach Explorer two-way satellite communicator (records position every 10 minutes and has two-way texting capabilities)
- Personal EPIRB (ACR-GPS receiver)
- NPS satellite phone (Iridium 9505A)
- 2 VHF Marine radios

Appendix SOP3.1: ARCC flight plan

The following form is used for flight following for sea otter aerial surveys in Glacier Bay National Park & Preserve. Forms may be updated each year, so it's important to check if there is an updated form before each season. The form should be completed and submitted to GLBA VIS and DENA COMM for flight following. Current NPS regulations require that a flight plan is filed for each survey and that an automated flight following system (Spidertracks) is used to track each flight at 2-minute intervals. In addition to flight following, there are mandatory voice check-in calls required at 60-minute intervals via a satellite phone or VHF radio.

Email Form or send to arcc_submit_forms@nps.gov

NPS ARCC RFLIP V 4.0.1 11/11/2015

ARCC		Dates of Mission: 07/15/17 to 07/31/17		DOI Flight Manager: Jamie N. Womble-NPS		Park: Glacier Bay	
AK Region Flight Plan						☐ Fleet ☒ Vendor	
1. TYPE ☒ VFR ☐ IFR ☐ DVFR	2. AIRCRAFT IDENTIFICATION N-62353	3. AIRCRAFT TYPE Fixed Wing SPECIAL EQUIPMENT Floats	4. TRUE AIRSPEED 100 KTS	5. DEPARTURE POINT Juneau, AK	6. DEPARTURE TIME PROPOSED: 0800 ACTUAL*	7. CRUISING ALTITUDE 700+	
8. ROUTE OF FLIGHT (USE BOX 26 FOR FLIGHT LEGS) Juneau airport to Glacier Bay and return for sea otter aerial photographic surveys							
9. DESTINATION Airport GLBA City Gustavus		10. EST. TIME ENROUTE HOURS: 4 MINUTES: 30		11. PILOT NAME Dennis Lozier (Ward Air, Juneau, AK) PILOT PHONE (907) 789-3150		14. PEOPLE ON ABOARD 3	
12. PROJECT MANAGER Jamie N. Womble, Ph.D.		13. PARK AVIATION MANAGER Jake Ohlson					
15. FUEL ON BOARD HOURS: 4 MINUTES: 30		16. ALTERNATE AIRPORTS(S) Gustavus, Hoonah, Juneau		17. REMARKS (INCLUDE PROJECT AND AVIATION MANAGER PHONE NUMBERS IF NOT ON FILE) We will be conducting sea otter surveys in lower and middle Glacier Bay and lower East and West arms of Glacier Bay National Park. We will depart from the Juneau airport and return to the Juneau airport. We will check in via satellite phone at 30-minute intervals and we will have a Spyder tracks tracking device on board.			
18. AIRCRAFT COLOR Blue and Red		19. GEAR CONFIGURATION DHC2 Beaver on Floats		20. MISSION PURPOSE Sea Otter Aerial Photographic Surveys ☐ PT TO PT ☐ SPECIAL USE ☒ HIGH RECON ☐ OTHER:		21. ORM SCORE (OPTIONAL)	

*FOR ARCC OFFICE USE ONLY

Additional Information	22a. AIRCRAFT HOME BASE (COMPANY, LOCATION) Ward Air, Juneau, Alaska		24. TYPE OF TRACKING (ARCC MUST HAVE ACCESS PRIOR TO FLIGHT) ☐ AFF ☒ **Spidertracks ☐ **Other: GLBA #4	
	22b. HOME BASE/COMPANY PHONE (907) 789-9150		**If not labeled with aircraft tail number, what is the tracking unit's identifier?	
	23. AIRCRAFT SAT PHONE 8816-3163-3741 Portable		25. ADDITIONAL INFORMATION Jamie Womble (Mobile phone: 907-957-1563; office phone 907-364-1577) NPS Wildlife Biologist/Project Leader based in Juneau at NPS Office at Indian Point	

Flight Segments	26. FLIGHT SEGMENTS		
	Leg - Start	Leg - End	Passenger/Cargo/Trip Information:
	1) Juneau airport to GLBA	GLBA to Juneau	3
	2)		
	3)		
	4)		
	5)		
	6)		
	7)		
	8)		
	9)		
	10)		
	11)		
	12)		
	13)		
14)			

EMAIL: DENA_CommCenter@nps.gov

PHONE: (907) 683-9555

FAX: (907) 683-9640

Sat Phone: 8816-3145-8390

Clear Form

GLBA N-62353

07/15/17 to 07/31/17

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N-62353 07/15/17 to 07/31/17

27. OPTIONAL MANIFEST				
	Passenger Info:	Gear Info:	Hazmat:	Weight:
1)	Pilot Dennis Lozier (Ward Air)	Flight Vest	☐ YES	185
2)	Jamie Womble (NPS)	Flight Vest and Camera Gear	☐ YES	125
3)	Linnea Pearson (NPS)	Flight Vest	☐ YES	150
4)	Lou Taylor-Thomas (NPS)	Flight Vest	☐ YES	150
5)			☐ YES	
6)			☐ YES	
7)			☐ YES	
8)			☐ YES	
9)			☐ YES	
10)			☐ YES	
11)			☐ YES	
12)			☐ YES	
Add. Cargo:			☐ YES	
HAZMAT:		Maximum Allowable Payload:		1000
		Actual Outbound Payload:		610
28. REMARKS				
Womble will confirm flight participants each day with ARCC.				

29. OPTIONAL MANIFEST				
	Passenger Info:	Gear Info:	Hazmat:	Weight:
1)			☐ YES	
2)			☐ YES	
3)			☐ YES	
4)			☐ YES	
5)			☐ YES	
6)			☐ YES	
7)			☐ YES	
8)			☐ YES	
9)			☐ YES	
10)			☐ YES	
11)			☐ YES	
12)			☐ YES	
Add. Cargo:			☐ YES	
HAZMAT:		Maximum Allowable Payload:		
		Actual Outbound Payload:		0
30. REMARKS				

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Clear Form