Preface to 2015 KM_B field observer forms

In interpreting these forms, the following information may be useful:

1. Because the frequency of observation can be so high in the field, corrections called in for observations already saved – even observations a few seconds old – cannot be immediately edited into the database, as this would require pausing the survey to make each correction. Instead, the correction is noted on the field observer form along with the approximate timestamp of the original recorded observation. These are then applied at the end of the transect or, if conditions require, during the quality assurance processing following the field work. By way of illustration, a notation of "16:32 2U SB 2M" is shorthand for the correction "at the observation stamped at time 16:32, 2 unidentified species murrelets should be 2 marbled murrelets."
2. Observers only identified groups exhibiting "water" behavior, as specified in the operating protocol KM-2012.1. No flying bird groups were reported in 2015.
3. The NPTransect application halted several times during the survey and the program had to be restarted. While this did not impact the recording of any observations, it did result in some brief timespans when no GPS points were logged in the database. As part of post-processing, the Tracklog GIS feature was manually edited using ArcGIS tools to close up the few resulting track discontinuities.

BJ 9/16/2015

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 001 Date 7/14/2015

Vessel FOG LARK Page 1 of 1 Recorder WFJ

Obsrvr 1 TLD Weather 1

Only observer, or left observer of 2-person team (0) <50 (1) >50 (2) Fog (3) Mist (4) Rain

Obsrvr 2 CJS Visibility (m) 1

Right observer of a 2-person team (1) > 500m (2) 250-500m (3) < 250m

Start | end 15:07 | 15:21 | Beaufort 2/1

In Alaska Daylight Time (0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
~~15:07~~	~~1~~	~~1~~	~~1~~						
✓ 15:10	2P	SB	2K						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
~~○~~ Corrections to auto data capture,
or ○ Manual record of observations

Transect 002
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 17:03 / 18:14 |
In Alaska Daylight Time

Date 2/13/2015
Recorder WFT
Weather 1/3/1/3
(0) <50 (1) 50-150 (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) >500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
5:32	RM	Coastal	— blue	screen	— restarted				
	Completed	transect							
✓ 5:39	2M		SB	3M					
✓ 5:45		1U	SB	1M					
	Cache sync worked properly as did CSV extract. No apparent loss from BSD.								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 003 | Date 7/9/2015
Vessel FOG LARK | Page 1 of 1 | Recorder WFJ
Obsrvr 1 KAN | Weather 2
Only observer or left observer of 2-person team | (0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 JSB | Visibility (m) 1
Right observer of a 2-person team | (1) > 500m (2) 250-500m (3) < 250m
Start | end 19:40 19:51 | Beaufort 0/1/2
In Alaska Daylight Time | (0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓	19:42	2M	SB	1	M/K	✓			

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 004 | Date 7/11/2015
Vessel FOG LAKE | Page 1 of 1 | Recorder WFS
Obsrvr 1 KAW | Weather 3/1/5
Only observer, or left observer of 2-person team | (0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 JSB | Visibility (m) 2
Right observer of a 2-person team | (1) > 500m (2) 250-500m (3) < 250m
Start | end 9:20 | 10:18 | Beaufort 1/2/3
In Alaska Daylight Time | (0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
	– NO EXCEPTIONS –								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(⊘) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 005
Vessel FOG CARC Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 16:49 | 17:42
In Alaska Daylight Time

Date 7/10/2005
Recorder WF8
Weather 1/3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1/0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓ 17:37		2K	SB	2M + 1K					

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
~~○~~ Corrections to auto data capture,
or ○ Manual record of observations

Transect BOC

Vessel FOG LADY Page 1 of 1

Obsrvr 1 KAW
Only observer or left observer of 2-person team

Obsrvr 2 JSB
Right observer of a 2-person team

Start | end 18:05 18:15 |
In Alaska Daylight Time

Date 7/9/2015

Recorder WFJ

Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain

Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m

Beaufort 0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓ 15:49	10	SB	1U						
✓ 19:08	40		SB	4M					

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 007
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 11:48 12:49 |
In Alaska Daylight Time

Date 7/10/2015
Recorder WFD
Weather 3/1/3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
[illegible]									
		- NO EXCEPTIONS -							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 008
Vessel FG-WARK Page 1 of 1
Obsrvr 1 CAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 10:29 |
In Alaska Daylight Time

Date 7/10/2015
Recorder WFJ
Weather 1/3/5/3/4/3/1/3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) \
(1) > 500m (2) 250-500m (3) <250m
Beaufort 2/1/0/1/2/1/2
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓	10:50	1M/1U	SB	1M					
✓	10:53	6/U	SB	6M					
✓	10:54	4M	SB	3M/1K					

Record key is present only for correction to automated entries.

KIMU OBSERVER FORM.DOCX REVISED 2012-06-06

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 009 Date 7/15/2013
Vessel FOG LARK Page 1 of 1 Recorder WFS
Obsrvr 1 TLD Weather 1
Only observer, or left observer of 2-person team (0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 KAN Visibility (m) 1
Right observer of a 2-person team (1) > 500m (2) 250-500m (3) < 250m
Start | end 13:23 | Beaufort 2/1
In Alaska Daylight Time (0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓									
	13:40	1	U	SB	(K				

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 010 Date 7/13/2015
Vessel FOG LARK Page 1 of 1 Recorder WFJ
Obsrvr 1 KAN Weather 1
Only observer or left observer of 2-person team (0) < 50 CC (1) > 50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 JSB Visibility (m) 1
Right observer of a 2-person team (1) > 500m (2) 250-500m (3) < 250m
Start | end 16:04 | 16:29 | Beaufort 2/3
In Alaska Daylight Time (0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		16:15		app	a bout - restarted - data intact				
✓ 16:18	3K+2U	SB	3K+1	M					
	✓	Went to Beaufort 3 last 20% of transect							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 011
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 15:34 | 15:50 |
In Alaska Daylight Time

Date 7/13/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 2
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
15:44	TP =	3m		2K					

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 012
Vessel FOG LARK Page 1 of 1
Obsrvr 1 TLD
Only observer, or left observer of 2-person team
Obsrvr 2 CJS
Right observer of a 2-person team
Start | end 14:28 15:00 |
In Alaska Daylight Time

Date 7/16/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO	EXCEPTIONS			—			

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 013
Vessel FOG LARK Page 1 of 1
Obsrvr 1 TLD
Only observer or left observer of 2-person team
Obsrvr 2 CJS
Right observer of a 2-person team
Start | end 12:37 | 12:47 |
In Alaska Daylight Time

Date 7/16/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
			– NO EXCEPTIONS						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 014
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 14:55 | 15:07
In Alaska Daylight Time

Date 7/12/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
			—	NO	EXCEPTIONS	—			

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 015 Date 7/12/2015
Vessel FOG LARK Page 1 of 1 Recorder WFJ
Obsrvr 1 KAN Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Only observer, or left observer of 2-person team
Obsrvr 2 JSB Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Right observer of a 2-person team
Start | end 15:18 15:51 | Beaufort 1/0
In Alaska Daylight Time
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
			– NO EXCEPTIONS –						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 016
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer or left observer of 2-person team
Obsrvr 2 JSR
Right observer of a 2-person team
Start | end 16:35 16:56 |
In Alaska Daylight Time

Date 7/12/2015
Recorder WFS
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO	EXCEPTIONS ~						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- [x] Corrections to auto data capture,
- or [ ] Manual record of observations

Transect 017 Date 7/12/2015

Vessel FOG LARK Page 1 of 1 Recorder WFJ

Obsrvr 1 KAN Weather 1

Only observer, or left observer of 2-person team (0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain

Obsrvr 2 JSB Visibility (m) 9

Right observer of a 2-person team (1) > 500m (2) 250-500m (3) < 250m

Start | end 16:05 | 16:23 | Beaufort 1/0

In Alaska Daylight Time (0) Calm (1) <20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
16:06		30	SB	2U	1M				

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- (X) Corrections to auto data capture,
- or ( ) Manual record of observations

Transect 018
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 11:32 | 11:53
In Alaska Daylight Time

Date 7/12/2015
Recorder WFO
Weather 1/3/2
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		—	NO	EXCEPTIONS				—	

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- [x] Corrections to auto data capture,
- or [ ] Manual record of observations

Transect 019
Vessel FOGLARK Page 1 of 1
Obsrvr 1 KAN
Only observer or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 10:50 | 12:17 |
In Alaska Daylight Time

Date 7/12/2015
Recorder WF
Weather 1/3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/8
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO EXCEPTIONS							

Record key is present only for correction to automated entries.

KIMU OBSERVER FORM.DOCX REVISED 2012-06-06

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 020
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 9:43 | 10:15 |
In Alaska Daylight Time

Date 7/12/2019
Recorder WFS
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
09:48	170	M	2	K	SB	2	M		

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 021
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 17:07 17:25 |
In Alaska Daylight Time

Date 7/18/2015
Recorder WFS
Weather 3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1 to 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓	N	17:10	Trackline halted				for ~2 minutes		
		No data affected.							
		Trackline should be manually connected							
		in post processing.							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 022
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSR
Right observer of a 2-person team
Start | end 16:28 16:54 |
In Alaska Daylight Time

Date 7/6/2015
Recorder WFS
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO	EXCEPTIONS						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(⊘) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 023
Vessel FOG CLARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of 2-person team
Start | end 15:56 | 16:23 |
In Alaska Daylight Time

Date 7/11/2017
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1/0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		+ NO EXCEPTIONS							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(⊗) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 024
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 14:10 | 14:27 |
In Alaska Daylight Time

Date 7/14/2015
Recorder WFJ
Weather 3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		-NO EXCEPTIONS							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊘ Corrections to auto data capture,
or ○ Manual record of observations

Transect 025
Vessel FOG CARIC Page 1 of 1
Obsrvr 1 KAW
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 14:27 | 15:17 |
In Alaska Daylight Time

Date 7/11/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO EXCEPTIONS							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 301
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 11:00 | 11:09 |
In Alaska Daylight Time

Date 7/13/2015
Recorder WFS
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓ 11:01	110m	SB	150m						
✓ 11:08		20	SB	2M					
		app	halted	@	11:10		-no	data	[illegible]

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- (✓) Corrections to auto data capture,
- or ( ) Manual record of observations

Transect 302
Vessel FOG LARK Page 1 of 1
Obsrvr 1 CJS
Only observer, or left observer of 2-person team
Obsrvr 2 CAV
Right observer of a 2-person team
Start | end 11:07 | 12:10
In Alaska Daylight Time

Date 7/14/2015
Recorder WFS
Weather 1
(0) <50 CC (1) 50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1/5/5/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
	-	NO	EXCEPTIONS			-			

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(⊘) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 303
Vessel FOG LARK Page 1 of 1
Obsrvr 1 CJS
Only observer, or left observer of 2-person team
Obsrvr 2 KAW
Right observer of a 2-person team
Start | end 9:52 | 10:30 |
In Alaska Daylight Time

Date 7/14/2015
Recorder WFS
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) >500m (2) 250-500m (3) <250m
Beaufort 0/1/0/X/0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓ 9:58	4P	SB	4M						
10:33	APP aborted - no data lost on restart								
✓ 10:38	3M	SB	4M						
✓ 10:44	1U	SB	1M						
	synched properly. FGDR backed up as 2015-07-14A								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- [x] Corrections to auto data capture,
- or [ ] Manual record of observations

Transect 304 | Date 7/14/2015
Vessel FOG LARK Page 1 of 1 | Recorder WFJ
Obsrvr 1 TCO (Only observer on left observer of 2-person team) | Weather 1 (Transcribe time and location from GPS)
Obsrvr 2 CJS (Right observer of a 2-person team) | Visibility (m) 1
Start | end 12:36 | 13:09 | Beaufort 1
In Alaska Daylight Time

(0) <50 m (1) 50-250 m (2) Fog (3) Mist (4) Rain
(1) > 500m (2) 250-500m (3) < 250m
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓ 12:59	1	U	SB	1	M				

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- [x] Corrections to auto data capture,
- or [ ] Manual record of observations

Transect 305 | Date 7/14/2015

Vessel FOG LARK Page 1 of 1 | Recorder WFS

Obsrvr 1 ~~ELA~~ KAN | Weather 1/3/1

Only observer or left observer of 2-person team | (0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain

Obsrvr 2 CDS | Visibility (m) 1

Right observer of a 2-person team | (1) > 500m (2) 250-500m (3) < 250m

Start | end 13:37 | 14:49 | Beaufort 0/1

In Alaska Daylight Time | (0) Calm (1) <20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
14:04		APP coastal							
✓ 14:22		2m	1K	SB	2K	1M			
✓ 14:22		2K	4M	SB	4K	2M			
✓ 14:26		1m	SB	1K					

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
~~○~~ Corrections to auto data capture,
or ○ Manual record of observations

Transect 306
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer or left observer of 2-person team
Obsrvr 2 CJS
Right observer of a 2-person team
Start | end 10:18 | 11:00 |
In Alaska Daylight Time

Date 7/15/2015
Recorder WFO
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) <50 m (2) 250-500m (3) >250m
Beaufort 2/1/2/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO	EXCEPTIONS						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- ⊗ Corrections to auto data capture,
- or ○ Manual record of observations

Transect 307
Vessel FOG CLARK Page 1 of 1
Obsrvr 1 KAN
Only observer or left observer of 2-person team
Obsrvr 2 CJS
Right observer of a 2-person team
Start | end 15:49 16:31 |
In Alaska Daylight Time

Date 7/14/2015
Recorder WFJ
Weather 1/3
(0) < 50 CC (1) > 50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 9
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 2/3/2
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
16:23			AM						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 308
Vessel FOG Lark Page 1 of 1
Obsrvr 1 TLD
Only observer, or left observer of 2-person team
Obsrvr 2 CJS
Right observer of a 2-person team
Start | end 11:19 | 16:42
In Alaska Daylight Time

Date 7/15/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/0/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
16:42		All	a Sorted after transect, No affected.				out of data		

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
☒ Corrections to auto data capture,
or ○ Manual record of observations

Transect 309
Vessel FOG LARK Page 1 of 1
Obsrvr 1 TLD
Only observer, or left observer of 2-person team
Obsrvr 2 CJS
Right observer of a 2-person team
Start | end 11:48 | 12:08
In Alaska Daylight Time

Date 7/15/2015
Recorder WFJ
Weather 1/3/1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO EXCEPTIONS				—			

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- ⊘ Corrections to auto data capture,
- or ○ Manual record of observations

Transect 310
Vessel FOG LARK Page 1 of __
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSR
Right observer of a 2-person team
Start | end 14:21 15:14 |
In Alaska Daylight Time

Date 7/10/2015
Recorder WFJ
Weather 1/3/4
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
	App aborted 200 m before end of transect. Restarted with no loss of data.								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- [x] Corrections to auto data capture,
- or [ ] Manual record of observations

Transect 311
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAW
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 13:37 | 14:02 |
In Alaska Daylight Time

Date 7/10/2015
Recorder WFS
Weather 3/1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1/2/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO EXCEPTIONS							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- (X) Corrections to auto data capture,
- or ( ) Manual record of observations

Transect 312
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSR
Right observer of a 2-person team
Start | end 15:03 | 15:18 |
In Alaska Daylight Time

Date 7/13/2015
Recorder WFO
Weather 3/4
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/2/3
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO	EXCEPTIONS -						

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊘ Corrections to auto data capture,
or ○ Manual record of observations

Transect 313
Vessel FOG LARK Page 1 of 1
Obsrvr 1 TLD
Only observer, or left observer of 2-person team
Obsrvr 2 CJS
Right observer of a 2-person team
Start | end 13:05 / 13:52 |
In Alaska Daylight Time

Date 7/16/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 3 / 0 / 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
	-NO EXCEPTIONS								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 314
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAW
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 15:41 | 16:12 |
In Alaska Daylight Time

Date 7/10/2015
Recorder WFS
Weather 4/3/1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1/0/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
~	NO EXCEPTIONS —								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(⊗) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 315
Vessel FOG LARK Page 1 of 1
Obsrvr 1 CJS
Only observer, or left observer of 2-person team
Obsrvr 2 KAN
Right observer of a 2-person team
Start | end 14:57 15:34 |
In Alaska Daylight Time

Date 7/15/2015
Recorder WF J
Weather 1/3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/2
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
	Nothing obstructed								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- ⊗ Corrections to auto data capture,
- or ○ Manual record of observations

Transect 316
Vessel FOG-LARK Page 1 of 1
Obsrvr 1 KAW
Only observer or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 13:57 | 14:33 |
In Alaska Daylight Time

Date 7/12/2015
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1/2/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
14:02									
M14:18	app a Sorted. Restarted successfully with no lost data.								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 307
Vessel FOG LAKE Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 12:47 / 13:05 |
In Alaska Daylight Time

Date 7/12/2015
Recorder WES
Weather 1/4/3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO EXCEPTIONS -							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
⊗ Corrections to auto data capture,
or ○ Manual record of observations

Transect 318
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 12:20 | 12:42 |
In Alaska Daylight Time

Date 7/12/2015
Recorder WFS
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1/2/1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		- NO EXCEPTIONS					—		

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 319
Vessel FOG LARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 07:46 | 18:01 |
In Alaska Daylight Time

Date 7/4/2015
Recorder KIFS
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 1
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
		—	NO	EXCEPTIONS					

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
- ⊗ Corrections to auto data capture,
- or ○ Manual record of observations

Transect 320
Vessel FOGLARK Page 1 of 1
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSB
Right observer of a 2-person team
Start | end 13:33 | 13:52 |
In Alaska Daylight Time

Date 7/4/2015
Recorder WFJ
Weather 3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓		30 seconds of incorrect "on transect" before real starting point should be deleted from track log [was set to "off transect"]							

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.

SEAN KITTLITZ'S MURRELET OBSERVER FORM

This sheet is used as:
(X) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 321
Vessel FOG LARK Page 1 of __
Obsrvr 1 KAN
Only observer, or left observer of 2-person team
Obsrvr 2 JSR
Right observer of a 2-person team
Start | end 12:12 12:31 |
In Alaska Daylight Time

Date 7/11/2015
Recorder WF D
Weather 3
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0
(0) Calm (1) 1-20 cm (2) 20-50 cm (3) 0.5-1 m (4) 1-2 m

When recording manually, note changes to starting conditions below on a single row between observations

Record key	Angle 0-359°	Distance (m)	Behavior W/F	# in Group	Species K/M/U	GPS Waypnt	ADT 24:mm	Latitude dd.ddddd	Longitude -ddd.ddddd
✓	Extra 3 minutes of tracklog before start may be deleted.								

Record key is present only for correction to automated entries.

Transcribe time and location from GPS waypoints after transect is completed.