Preface to 2016 KM_B field observer forms

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

1. The previously used data capture application (NPTransect) was replaced with a new one called Park Observer–KIMU prior to the start of the field survey. This should have had no impact on the field log sheet process or the integrity of the collected data.
2. 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 sequence number of the original recorded observation. These are then applied at the end of the transect or, if conditions require, during the quality control processing following close of field work. By way of illustration, a notation of "207 2U SB 3M" is shorthand for the correction "at the observation labeled as sequence 207, 2 unidentified species should be 3 marbled murrelets." Check marks are seen on the field sheet for each correction applied.
3. Observers only identified groups exhibiting "water" behavior, as specified in the operating protocol KM-2012.1. No flying bird groups were reported in 2016.
4. The Park Observer-KIMU application halted about 90 meters short of the end of transect 023 due to equipment faults. This did not impact the recording of any observations, since no birds were observed from the point of failure to the end of transect.

BJ 7/18/2016

SEAN KITTLITZ'S MURRELET OBSERVER FORM

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

Transect 001

Vessel FOG LARK Page 1 of 1

Obsrvr 1 CJS
Only observer, or left observer of 2-person team

Obsrvr 2 RCF
Right observer of a 2-person team

Start | end 11:31 | 11:43 |
In Alaska Daylight Time

Date 7/12/2016

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:
◯ Corrections to auto data capture,
or ◯ Manual record of observations

Transect 002

Vessel FAC LARK Page 1 of 1

Obsrvr 1 ALS
Only observer, or left observer of 2-person team

Obsrvr 2 BCE
Right observer of a 2-person team

Start | end 16:24 | 17:15 |
In Alaska Daylight Time

Date 7/11/2016

Recorder WEB

Weather 0
(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
751		1K	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 003
Date 7/9/2016
Vessel FOG CARIC Page 1 of 1
Recorder WFJ
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Weather 0
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 BCF
Right observer of a 2-person team
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Start | end 8:22 | 9:18 |
In Alaska Daylight Time
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
✓ 192		2m	S/B	2	K				
✓ R2 OBX		distance extra digit S/B 80							
✓		left collecting trackpoints after close of transect for 9 minutes. Should be truncated.							

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: 7/4/2016
Vessel: FOG LARK Page 1 of 1
Recorder: WEJ
Obsrvr 1: ALS
Only observer, or left observer of 2-person team
Weather: 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2: BCF
Right observer of a 2-person team
Visibility (m): 1
(1) > 500m (2) 250-500m (3) < 250m
Start | end: 8:18 | 9:07 |
In Alaska Daylight Time
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
✓ 470	20°	<	SB	250°					
✓ 482	null		SB	2U					
✓ 489	235°		SB	135°					
✓ 524		1m	SB	3M					

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 LARK Page 1 of 1
Obsrvr 1 ALS
Only observer or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 9:19 | 10:13 |
In Alaska Daylight Time

Date 7/14/2016
Recorder WFJ
Weather 0
(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
(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
✓	538		1M						
✓	550	2m	SB1K + 1M						
✓	578	null	SB 2M						
✓	594	10m	SB 1K 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:
(●) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 006
Vessel FOX LARK Page 1 of 1
Obsrvr 1 ACS
Only observer or left observer of 2-person team
Obsrvr 2 BCE
Right observer of a 2-person team
Start | end 12:39 | 13:40 |
In Alaska Daylight Time

Date 7/9/2016
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
		–	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 007
Date 7/9/2016
Vessel FOGLARK Page 1 of 1
Recorder WFS
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 RCF
Right observer of a 2-person team
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Start | end 9:51 | 10:43
In Alaska Daylight Time
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
		–	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 | Date 7/9/2016
Vessel FOG LARK Page 1 of 1 | Recorder WFJ
Obsrvr 1 AGS (Only observer, or left observer of 2-person team) | Weather 0 (0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 BCF (Right observer of a 2-person team) | Visibility (m) 1 (1) > 500m (2) 250-500m (3) < 250m
Start | end 11:01 | 11:56 (In Alaska Daylight Time) | 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
			– 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 009
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 10:44 | 11:00 |
In Alaska Daylight Time

Date 7/10/2016
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
✓ 347		7m	SB	8	m				
✓ 358	SB	30m							
✓ 363	SB	135m							

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: 010
Date: 7/10/2016
Vessel: FOG LARK Page 1 of 1
Recorder: WFO
Obsrvr 1: ALS
Only observer, or left observer of 2-person team
Weather: 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2: RCF
Right observer of a 2-person team
Visibility (m): 1
(1) > 500m (2) 250-500m (3) < 250m
Start | end: 11:23 | 11:46 |
In Alaska Daylight Time
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
		- 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: 011
Vessel: FOG LARK Page 1 of 1
Obsrvr 1: ALS
Only observer, or left observer of 2-person team
Obsrvr 2: BC
Right observer of a 2-person team
Start | end: 11:56 | 12:08 |
In Alaska Daylight Time

Date: 7/10/2016
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: 012
Date: 7/10/2016
Vessel: FOG LARK Page 1 of 1
Recorder: WF
Obsrvr 1: ALS (Only observer, or left observer of 2-person team)
Weather: 3/4 (0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2: BCF (Right observer of a 2-person team)
Visibility (m): 1 (1) > 500m (2) 250-500m (3) < 250m
Start | end: 13:26 | 13:57 (In Alaska Daylight Time)
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
		– 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 013
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 14:09 14:19 |
In Alaska Daylight Time

Date 7/10/2016
Recorder WFJ
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
(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
√B	Check to be sure it was "on transect" at start of transect - possibility it had not been done.								

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: FOGLARK Page 1 of 1
Obsrvr 1: ALS
Only observer, or left observer of 2-person team
Obsrvr 2: BCF
Right observer of a 2-person team
Start | end: 13:34 | 13:48 |
In Alaska Daylight Time

Date: 7/11/2016
Recorder: WFJ
Weather: 0
(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
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 13:57 | 14:30 |
In Alaska Daylight Time

Date 7/4/2016
Recorder WFJ
Weather 0
(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
✓ 650	5U	=SB	5M						
✓ 660	1	M	SB	2M					

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: 016
Date: 7/11/2016
Vessel: FOG LARK Page 1 of 1
Recorder: WFJ
Obsrvr 1: ALS
Only observer, or left observer of 2-person team
Weather: 0
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2: BCF
Right observer of a 2-person team
Visibility (m): 1
(1) > 500m (2) 250-500m (3) < 250m
Start | end: 15:12 | 15:33 |
In Alaska Daylight Time
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 017
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 14:43 | 15:00 |
In Alaska Daylight Time

Date 7/14/2016
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) 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
✓B	First minute false start - should be deleted.								

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 018
Vessel FOGCARK Page 1 of 1
Obsrvr 1 ALS
Only observer or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 11:21 | 11:43 |
In Alaska Daylight Time

Date 7/8/2016
Recorder WEJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) ~~0~~ 1 QC
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 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 019
Vessel FOGLARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 RCF
Right observer of a 2-person team
Start | end 10:45 | 11:11 |
In Alaska Daylight Time

Date 7/8/2016
Recorder WFJ
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) ~~0~~ 1 QC
(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: 020
Vessel: FOG LARK Page 1 of 1
Obsrvr 1: ALS
Only observer or left observer of 2-person team
Obsrvr 2: BKF
Right observer of a 2-person team
Start | end: 9:49 | 10:19 |
In Alaska Daylight Time

Date: 7/8/2016
Recorder: WFD
Weather: 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m): 0 (QC)
(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:
(●) Corrections to auto data capture,
or ( ) Manual record of observations

Transect 021

Vessel FOG LARK Page 1 of 1

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

Obsrvr 2 BCF
Right observer of a 2-person team

Start | end 9:13 | 9:32 |
In Alaska Daylight Time

Date 7/8/2016

Recorder WES

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

Visibility (m) 0 1 QC
(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 022
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 BCC
Right observer of a 2-person team
Start | end 17:39 | 18:06 |
In Alaska Daylight Time

Date 7/7/2016
Recorder WFS
Weather 0
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 0 1
(1) > 500m (2) 250-500m (3) < 250m
Beaufort 0/1/2
(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
		- 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 LARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 17:00 17:30 |
In Alaska Daylight Time

Date 7/7/2016
Recorder WES
Weather 0
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 0 1 QC
(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
16½	125	60	W	2	X				
	halfway between #16 & #17								
VB	: Pad overheated - sunshine?- at end								
	of transect. No data lost. Is								
	track log damaged?								
									✓

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: ALS
Only observer, or left observer of 2-person team
Obsrvr 2: RCE
Right observer of a 2-person team
Start | end: 15:19 | 15:35 |
In Alaska Daylight Time

Date: 7/3/2016
Recorder: WFS
Weather: 0
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m): ~~0~~ 1 QC
(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
	– Nothing observed –								

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 025
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 RCF
Right observer of a 2-person team
Start | end 15:49 | 16:23 |
In Alaska Daylight Time

Date 7/7/2016
Recorder WEO
Weather 0
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Visibility (m) 0 1 QC
(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 101

Vessel FOG LARK Page 1 of 1

Obsrvr 1 CJS
Only observer, or left observer of 2-person team

Obsrvr 2 BCF
Right observer of a 2-person team

Start | end 12:58 | 13:40 |
In Alaska Daylight Time

Date 7/12/2016

Recorder WFJ

Weather 4/1/4/1
(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
✓ 850		90m							
✓ 862		Edited							

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 102
Vessel FOG LARK Page 1 of 1
Obsrvr 1 CJS
Only observer, or left observer of 2-person team
Obsrvr 2 BCS
Right observer of a 2-person team
Start | end 14:06 | 15:23 |
In Alaska Daylight Time

Date 7/12/2016
Recorder WFJ
Weather 1 / 0 / 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) 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
✓ 995	50m	SB	40 meters						
✓ 998		100m	SB	7m	auklet				

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 103
Vessel FOG LARK Page 1 of 1
Obsrvr 1 CJS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 9:46 | 10:05 |
In Alaska Daylight Time

Date 7/12/2016
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					—		
✓		Trackpoints left on about 8 minutes							
		part end of transect - should							
		be truncated.							

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 104
Vessel FOG LARK Page 1 of 1
Obsrvr 1 CJS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 10:21 | 11:05 |
In Alaska Daylight Time

Date 7/12/2016
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 0/3
(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
✓B	✓	false start	(boat GPS	failure).					
	Should	be	deleted						

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: 105
Vessel: FOG LARK Page 1 of 1
Obsrvr 1: ALS
Only observer, or left observer of 2-person team
Obsrvr 2: BCF
Right observer of a 2-person team
Start | end: 14:01 | 14:25
In Alaska Daylight Time

Date: 2/9/2016
Recorder: WFJ
Weather: 0
(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
✓ 105		Distance	SB		140				

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 106
Date 7/10/2016
Vessel FOG LARK Page 1 of 1
Recorder WFD
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 BCF
Right observer of a 2-person team
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Start | end 15:20 | 15:48 |
In Alaska Daylight Time
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
	Accidentally left first few minutes off transect. Needs to be set to on transect at beginning of the defined 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 107

Vessel FOG LARK Page 1 of 1

Obsrvr 1 ALS
Only observer, or left observer of 2-person team

Obsrvr 2 BCF
Right observer of a 2-person team

Start | end 16:03 | 16:35 |
In Alaska Daylight Time

Date 7/10/2016

Recorder WFD

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 108

Vessel FOG LARK Page 1 of 1

Obsrvr 1 ALS
Only observer, or left observer of 2-person team

Obsrvr 2 BCF
Right observer of a 2-person team

Start | end 11:02 | 11:22 |
In Alaska Daylight Time

Date 7/11/2016

Recorder WEB

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

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

Beaufort 2/6
(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			OBSERVED			—	

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 109 | Date 7/11/2016

Vessel FOG LARK Page 1 of 1 | Recorder WFO

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

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

Start | end 11:49 | 12:29 (In Alaska Daylight Time) | 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
		- NO EXCEPTIONS -							
		Should truncate track log after							
			end of transect. - Accidentally						
			left recording for 15 minutes.						

V B

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 110
Vessel FOGLARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 16:37 | 17:01 |
In Alaska Daylight Time

Date 7/8/2016
Recorder WFD
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
✓ w	133		240°		UOT	40°			

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 111

Vessel FOG LARK Page 1 of 1

Obsrvr 1 ALS
Only observer, or left observer of 2-person team

Obsrvr 2 BCF
Right observer of a 2-person team

Start | end 12:35 | 13:03 |
In Alaska Daylight Time

Date 7/8

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 112
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 15:08 | 15:38 |
In Alaska Daylight Time

Date 7/8/2016
Recorder WFG
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) 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 113
Date 7/8/2016
Vessel FOG LARK Page 1 of 1
Recorder WEJ
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Weather 1
(0) <50 CC (1) >50 CC (2) Fog (3) Mist (4) Rain
Obsrvr 2 BCF
Right observer of a 2-person team
Visibility (m) 1
(1) > 500m (2) 250-500m (3) < 250m
Start | end 15:54 | 16:08 |
In Alaska Daylight Time
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
	Small portion before start of transect								
	marked as on-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 114
Vessel FOG LARK Page 1 of 1
Obsrvr 1 ALS
Only observer, or left observer of 2-person team
Obsrvr 2 BCF
Right observer of a 2-person team
Start | end 13:35 14:18 |
In Alaska Daylight Time

Date 7/8/2016
Recorder WFJ
Weather 1/0
(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
(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			—			
✓B	(Left recording trackpoints long after ending transect. Should be truncated in geodatabase.)								

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 115

Vessel FOG LARK Page 1 of 1

Obsrvr 1 ALS
Only observer, or left observer of 2-person team

Obsrvr 2 BCF
Right observer of a 2-person team

Start | end 14:21 | 15:14 |
In Alaska Daylight Time

Date 7/7/2016

Recorder WFD

Weather 0
(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
VB @14:35	may have marked data as off transect - we have been on transect since commencing 115... correct if necessary								

Record key is present only for correction to automated entries.

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