

ALMS

LOCATION DATA

GPS type & no: _____
GPS datum: _____

Land unit: _____
Dates: _____

Block number: _____
Block name: _____

Waypt #	Latitude (N)						Longitude (W or E)						Location error (m)	Elev (m)	Altim GPS Map	Moved FROM orig pt		Photo		Notes about point and survey markers (give reason if point moved or inaccessible)
	Pt	d	d	d	d	d	d	d	d	d	d	d				d	d	Distance (m)	Bearing	
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
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15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				
25																				

SURVEY DETAILS

(Circle appropriate values)

Length of count (min): 3 5 8 10 other _____

Spacing between pts (m): 250 500

Observers rotated among pts: yes no

Double-observer method used: yes no

Species counted in restricted radius (_____ m): _____

Species excluded from point counts: _____

OBSERVER INFORMATION

Name: _____

First name *Middle initial* *Last name*

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Tel: _____ email: _____

SURVEY EXPERIENCE (# years):

Bird surveys _____ Distance estimation _____ Birding in Alaska _____

CONTACT INFORMATION

(if different)

Name: _____

First name *Middle initial* *Last name*

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Tel: _____ email: _____

DAILY WEATHER AND ROUTE

Land unit: _____

Block number: _____

Block name: _____

Date	Date								
(mm-dd-yy)	(mm-dd-yy)								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Start</td><td>End</td></tr> <tr><td> </td><td> </td></tr> </table>	Start	End			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Start</td><td>End</td></tr> <tr><td> </td><td> </td></tr> </table>	Start	End		
Start	End								
Start	End								
Time	Time								
Temp	Temp								
°F/C	°F/C								
Wind	Wind								
Sky	Sky								

Show path between survey points each day. Circle points done by this observer if observers were rotated.

Date	Date								
(mm-dd-yy)	(mm-dd-yy)								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Start</td><td>End</td></tr> <tr><td> </td><td> </td></tr> </table>	Start	End			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Start</td><td>End</td></tr> <tr><td> </td><td> </td></tr> </table>	Start	End		
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Start	End								
Time	Time								
Temp	Temp								
°F/C	°F/C								
Wind	Wind								
Sky	Sky								

ALMS BIRD SURVEY CODES

WIND SPEED: (Use Beaufort numbers, not mph)

Beaufort Number	Wind Speed (mph)	Indicators of Wind Speed
0	Less than 1	Smoke rises vertically
1	1 to 3	Wind direction shown by smoke drift
2	4 to 7	Wind felt on face; leaves rustle
3	8 to 12	Leaves, small twigs in constant motion; light flag extended
4	13 to 18	Raises dust and loose paper; small branches are moved
5	19 to 24	Small trees in leaf sway; crested wavelets on inland waters

SKY CONDITION:

- 0 Clear or a few clouds
- 1 Partly cloudy (scattered) or variable sky
- 2 Cloudy (broken) or overcast
- 4 Fog or smoke
- 5 Drizzle
- 7 Snow
- 8 Showers

TIME INTERVALS:

- 3 0-3 min
- 5 3-5 min
- 8 5-8 min
- 10 8-10 min









DISTANCE INTERVALS (DIST):

For sparse species in open habitats, record distance interval out to 400 m if possible. For common species and closed habitats, record distance interval out to 150 m, then use > 150 m.

10	0-10 m	125	101-125 m
20	11-20 m	150	126-150 m
30	21-30 m	> 150	151-400 m
40	31-40 m	200	151-200 m
50	41-50 m	250	201-250 m
60	51-60 m	300	251-300 m
70	61-70 m	350	301-350 m
80	71-80 m	400	351-400 m
90	81-90 m	> 400	> 400 m
100	91-100 m	> 400	> 400 m

BEHAVIOR CODES (BEH): When using multiple detection codes for a single bird, list codes in the order detected.

CODE SYMBOL TYPE OF DETECTION

P		Detected at Previous point
S		Singing
C		Calling
D		Drumming woodpeckers or grouse
B		Booming grouse
M		Male visual detection
F		Female visual detection
V		Visual detection, sex unknown
MF		Pair visual detection
FD		Flight Display of shorebirds
FO		Flyover —flying bird not actively using the habitat within the census area (e.g., flying in a straight line above the canopy)
J		Juvenile
N		Nest

Land unit: _____ Dates: _____
 Block number: _____ Observers: _____
 Block name: _____ Total effort: _____ hrs _____ km

RTLO	Red-throated Loon	PAYA	Parasitic Jaeger
PALO	Pacific Loon	LTJA	Long-tailed Jaeger
COLO	Common Loon	BOGU	Bonaparte's Gull
HOGR	Horned Grebe	MEGU	Mew Gull
RNGR	Red-necked Grebe	HERG	Herring Gull
PECO	Pelagic Cormorant	GWGU	Glaucous-winged Gull
TUSW	Tundra Swan	GLGU	Glaucous Gull
TRUS	Trumpeter Swan	BLKI	Black-legged Kittiwake
CAGO	Canada Goose	ARTE	Arctic Tern
GWTE	Green-winged Teal	ALTE	Aleutian Tern
MALL	Mallard	COMU	Common Murre
NOPI	Northern Pintail	PIGU	Pigeon Guillemot
NSHO	Northern Shoveler	MAMU	Marbled Murrelet
AMWI	American Wigeon	TUPU	Tufted Puffin
GRSC	Greater Scaup	HOPU	Horned Puffin
LESC	Lesser Scaup	RODO	Rock Dove
HARD	Harlequin Duck	NHOW	Great Horned Owl
LTDU	Long-tailed Duck	NHOW	Northern Hawk Owl
BLSC	Black Scoter	BDOU	Barred Owl
SUSC	Surf Scoter	GGOW	Great Gray Owl
WWSC	White-winged Scoter	SEOW	Short-eared Owl
COGO	Common Goldeneye	BLSW	Black Swift
BAGO	Barrow's Goldeneye	VASW	Vaux's Swift
BUFE	Bufflehead	RUHU	Rufous Hummingbird
COME	Common Merganser	BEKI	Belted Kingfisher
OSPR	Red-breasted Merganser	RBSA	Red-breasted Sapsucker
BAEA	Bald Eagle	DOWO	Downy Woodpecker
NOHA	Northern Harrier	HAWO	Hairy Woodpecker
SSHA	Sharp-shinned Hawk	TTWO	Three-toed Woodpecker
NOGO	Northern Goshawk	BBWO	Black-backed Woodpecker
SMWA	Swinson's Hawk	NOFL	Northern Flicker
RTHA	Red-tailed Hawk	YSFL	Yellow-shafted Flicker
RLHA	Rough-legged Hawk	RSFL	Red-shafted Flicker
GOEA	Golden Eagle	OSFL	Olive-sided Flycatcher
AMKE	American Kestrel	WEMP	Western Wood-Pewee
MERL	Merlin	ALFL	Alder Flycatcher
GYRF	Gyrfalcon	HAFL	Hammond's Flycatcher
SPGR	Spruce Grouse	PSFL	Pacific-slope Flycatcher
BLUG	Blue Grouse	SAPH	Say's Phoebe
WIPT	Willow Ptarmigan	HOLA	Horned Lark
ROPT	Rock Ptarmigan	TRES	Tree Swallow
SACR	Sandhill Crane	VGSW	Violet-green Swallow
BBPL	Black-bellied Plover	NRWS	N. Rough-winged Swallow
AMGP	American Golden-Plover	BANS	Barn Swallow
PAGP	Pacific Golden-Plover	CLSW	Cliff Swallow
SEPL	Semipalmated Plover	BARA	Barn Swallow
BLDY	Black Oystercatcher	STJA	Steller's Jay
GRYE	Greater Yellowlegs	BBMA	Black-billed Magpie
LEVE	Lesser Yellowlegs	AMCR	American Crow
SOSA	Solitary Sandpiper	NOCR	Northwestern Crow
SPSA	Spotted Sandpiper	CORA	Common Raven
UPSA	Upland Sandpiper	BOCH	Black-capped Chickadee
WHIM	Whimbrel	BOCH	Boreal Chickadee
SESA	Semipalmated Sandpiper	CBCH	Chestnut-backed Chickadee
WESA	Western Sandpiper	RBNU	Red-breasted Nuthatch
LESA	Least Sandpiper	BRCR	Brown Creeper
ROSA	Rock Sandpiper	WIMR	Winter Wren
DJUN	Dunlin	AMDI	American Dipper
WISN	Wilson's Snipe	ARWA	Arctic Warbler
RNPH	Red-necked Phalarope	GCKI	Golden-crowned Kinglet

RCKI	Ruby-crowned Kinglet	BLUE	Bluthroat
NOWH	Northern Wheatear	TOSO	Townsend's Solitaire
GCTH	Gray-cheeked Thrush	SWTH	Swinson's Thrush
HETH	Hermit Thrush	AMRO	American Robin
VATH	Varied Thrush	VYAG	Yellow Wagtail
WHWA	White Wagtail	AMPI	American Pipit
BOWA	Bohemian Waxwing	CEDW	Cedar Waxwing
NSHR	Northern Shrike	WAVI	Warbling Vireo
REVI	Red-eyed Vireo	OCWA	Orange-crowned Warbler
YWAR	Yellow Warbler	MYWA	Myrtle Warbler
AUWA	Audubon's Warbler	TYWA	Yellow-rumped Warbler
TOWA	Townsend's Warbler	BLPW	Blackpoll Warbler
AMRE	American Redstart	NOWA	Northern Waterthrush
MGWA	MacGillivray's Warbler	COYE	Common Yellowthroat
WIWA	Wilson's Warbler	ATSP	American Tree Sparrow
CHSP	Chipping Sparrow	SAVS	Savannah Sparrow
FOSP	Fox Sparrow	FOSP	Fox Sparrow
SOSP	Song Sparrow	LISP	Lincoln's Sparrow
GCSP	Golden-crowned Sparrow	WCSP	White-crowned Sparrow
SCJU	State-colored Junco	ORJU	Oregon Junco
DEJU	Dark-eyed Junco	LALO	Lapland Longspur
SNBU	Snow Bunting	RUBL	Rusty Blackbird
GRBF	Gray-crowned Rosy-Finch	PIGR	Pine Grosbeak
RECR	Red Crossbill	WMCR	White-winged Crossbill
CORE	Common Redpoll	HOPE	Hoary Redpoll
PISI	Pine Siskin		

MAMMAL EVIDENCE
 Visual observation
 Tracks
 Sign
 Dam

BREEDING BIRD EVIDENCE	B Building or excavating nest
X Detected, no evidence of breeding	A Alarm call
H Observed in possible nesting habitat	D Distraction display, injury-feigning
P Pair observed in suitable habitat	N Nest observed
S Singing male	Y Downy or recently fledged young
C Courtship display	F Adult with fecal sac or food for young

Land unit: _____
Dates: _____

Block #: _____
Block name: _____
Topo map quad: _____

PHOTOS

- Digital _____ → Interfaced with GPS?
 Slide film Yes
 Print film No

OBSERVER INFORMATION

Name: _____
First name Middle initial Last name

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Tel: _____ email: _____

Additional observers: _____

CONTACT INFORMATION

(if different)

Name: _____
First name Middle initial Last name

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Tel: _____ email: _____

EXOTIC PLANTS

Mark each EXOTIC PLANT SPECIES detected anywhere within the grid of points.

- Did not look for exotics
 Bird Vetch (*Vicia cracca*)
 Canada Thistle (*Cirsium arvense*)
 White Sweetclover (*Mellilotus albus*)
 Other: _____
 Other: _____

MISCELLANEOUS FIELD NOTES

Point	Notes
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Land unit: _____ Block #: _____
 Date: _____ Point #: _____
 Observers: _____

TOPOGRAPHY

Elevation (m) _____ Aspect _____° Slope _____°

TOPOGRAPHIC POSITION

Summit Highslope Basin

Ridge Midslope Valley

Lowslope Plain

LOCAL FEATURES

Cliff/rock face Step in slope Alluvia/moraine

Cut-bank Floodplain Dunes

Other _____

PHOTO

Roll/frame or Digital ID # _____

Facing North: _____ Facing South: _____

Facing East: _____ Facing West: _____

DISTURBANCE

None % of circle Severity code Yrs since disturbance < 2 > 2 # if known

Insect damage	_____	_____	_____	_____
Disease	_____	_____	_____	_____
Beaver ponds	_____	_____	_____	_____
Beaver cuttings	_____	_____	_____	_____
Other animal activity	_____	_____	_____	_____
Fire	_____	_____	_____	_____
Flooding	_____	_____	_____	_____
Wind	_____	_____	_____	_____
Landslide/avalanche	_____	_____	_____	_____
Logging	_____	_____	_____	_____
Roads	_____	_____	_____	_____
Other human disturbances	_____	_____	_____	_____

DISTURBANCE SEVERITY CODES

- 1 MINOR:** Little evidence of disturbance, damage limited to small part of circle, or widespread but slight. Minor driver for succession.
- 2 SEVERE:** Damage obvious and widespread in circle, including killing or removing much of the vegetation or underlying substrate. Damage resulting in widespread secondary succession.

COARSE WOODY DEBRIS (Within 50-m radius circle)

No. coniferous snags: 1 2 3-4 5-6 7-9 10-12 >12

No. deciduous snags: 1 2 3-4 5-6 7-9 10-12 >12

% cover downed logs: << 1 < 1 1-5 6-25 26-50 51-75 76-100%

HABITAT QUESTIONNAIRE

(Answer all questions for each point.)

1. Is there a water body at least partly inside the 50-m radius circle? YES NO

A. If YES, indicate the water type, shore type, and shore vegetation.

- Water type: Marine Bedrock, boulders, large stones
- Estuarine Organic material, mud, sand, gravel, cobbles
- River/Stream < 30% vegetated
- Lake/Pond > 30% vegetated

B. Is the water body at least 10 m wide?

If YES, this is wetland habitat. If part of water body is vegetated and part unvegetated, there may be > 1 habitat. Use NWI Key to determine wetland classes and fill out HABITAT DESCRIPTION form for each one.

2. Apart from water bodies described above, is saturation with water the dominant factor in determining soil development and plant community for any other habitat > 10 m wide occurring at least partly in the circle? This includes areas at least annually saturated with or covered by water, areas dotted with small ponds, and areas with obligate wetland plants or numerous facultative wetland species (see NWI wetland indicator lists).

If YES, this is a separate wetland habitat. Use NWI Key to determine wetland class and fill out HABITAT DESCRIPTION form.

3. Is there a large patch of unvegetated ground, not associated with a water body, that is at least partly inside the 50-m circle? This can include rock, bare ground, or snow or ice with no protruding vegetation, but the patch must be at least 400 m² in size (11-m radius).

If YES, this is a separate habitat; fill out HABITAT DESCRIPTION form.

4. For any other parts of the 50-m radius circle, fill out one HABITAT DESCRIPTION form for each discrete non-wetland habitat type. DO NOT separate out components of common habitat mosaics (see instructions). For any of these habitats, is the soil very well drained, unable to hold moisture long after precipitation, and dry most of the year?

Land unit: _____
Block #: _____

Date: _____
Observers: _____

Point #: _____ of _____
Habitat # _____
% of circle: _____

CLASSIFICATION

- 1. Water body with no floating or emergent vegetation.
NWI: _____ Kessel: _____ Viereck: NA
- 2. Water body with > 2% vegetation cover.
NWI: _____ Kessel: _____ Viereck: _____
- 3. Vegetated wetland without open water body.
NWI: _____ Kessel: _____ Viereck: _____
- 4. Non-wetland with < 2% vegetation.
 Solid bedrock Bare soil Persistent snow or ice
 Rocks, stones, gravel Sand
NWI: NA Kessel: _____ Viereck: NA
- 5. Non-wetland with > 2% vegetation cover.
NWI: NA Kessel: _____ Viereck: _____

TREE size class	DBH Code	DBH (in)		DBH (cm)	
		Coniferous	Deciduous	Coniferous	Deciduous
Seedling	1	< 1.0	< 1.0	< 2.5	< 2.5
Sapling	2	1.0-4.9	1.0-4.9	2.5-13	2.5-13
Polelimber	3	5-8.9	5-10.9	14-23	14-28
Small Sawtimber	4	9-19.9	11-19.9	23-49	28-49
Large Sawtimber	5	20-39.9	20-39.9	50-101	50-101
Giant Sawtimber	6	> 40	> 40	> 102	> 102

COVER CLASS CODES for LARGEST TREES, SHRUBS, NON-WOODY PLANTS, & GROUND COVER	Code		Code	
	% cover		% cover	
0	None	4	6-25 %	
1	<< 1 %	5	26-50 %	
2	< 1 %	6	51-75 %	
3	1-5 %	7	76-100 %	

VEGETATION

SINGLE-STEMMED TREES > 3 m
% TREE canopy cover: _____ % coniferous: _____

TREE LAYER species

1. _____	% cover	3-5	5-9	9-21	> 21	Avg. ht. (m)	Largest trees
2. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		DBH class
3. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Cover class
4. _____		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

SINGLE-STEMMED SAPLINGS, SEEDLINGS, OR DWARF TREES < 3 m
Species (list for each layer) % cover Avg. ht. (m) Avg. DBH class

1. _____ _____

2. _____ _____

3. _____ _____

4. _____ _____

SHRUBS (Multiple-stemmed, woody plants)
Layer Avg. ht.(m) Cover class Species (list for each layer)

1. _____ _____

2. _____ _____

3. _____ _____

4. _____ _____

NON-WOODY PLANTS
Cover class Species (list by dominance)

Graminoids _____

Herbs _____

Ferns _____

Horsetails _____

GROUND COVER

Mosses/hepatics _____

Lichens _____

Litter _____

Bare ground _____

Ephemeral snow _____