MARBLED MURRELET FOREST SURVEY FORM

Page 1 of _____

Total Detections:

age)
,	age

Sta	te/F	rov	ince	e (circ	le) Al	K BC W	A OR CA														
Month Day Year								_				Ownersh	ip:								
Area	a Na	ime:						Stratum	Name	/Num	ber:		Station Number:								
Obs	erve	r (s)	Nan	ne:			li	nitials:	A	Affiliati	on:		Phone: ()								
Stat	ion L	ocat	tion:	- UTM	zone:		E (x) coord	inate:				N	I (y) coordi	nate:							
Sou	rce:							Datum:					Accu	racy:							
Offi	cial S	Sunr	ise -	Time: _			Source:			Begin	Surv	ey Time: _		End Survey Time:							
EN\	/IRO	NME	ENT	AL CO	NDITIC	ONS:								revised: 12 / 2020							
				Ver	tical Vi	ewing			Pre	cipita	tion										
	Tir	ne		Ceiling	Cloud Cover	Visibility to 1x Canopy	Horiz. Vis. to 100m (Y/N/U)	Audibility to 200m (Y/N)	Rain	Fog	Other	Wind	Noise	Notes Remember to record <u>duration</u> of any conditions that affect survey validity							

• Ceiling: UL Unlimited (clear); HI > 2.0 canopy height; MID > 1.5 to < 2.0 canopy height; LO > 1.0 to < 1.5 canopy height; SUB < 1.0 canopy height; U = Unknown (too dark to see)

• Cloud Cover: 0 = 0%, 1 = 33%, 2 = 66%, 3 = 100%.

• Vertical Visibility: N = Impaired (detections may be missed due to conditions), Y = Unimpaired (conditions allow for reliable detection), U = Unknown.

• Horizontal Visibility: N = Impaired (detections may be missed due to conditions), Y = Unimpaired (conditions allow for reliable detection), U = Unknown.

• Audibility: N = Impaired (detections may be missed due to conditions), Y = Unimpaired (conditions allow for reliable detection).

• Precipitation - Rain & Fog: N = None, L = Light, M = Moderate, H = Heavy. Other: H = Hail, S = Snow. (Indicate intensity using same codes for rain & fog).

Wind: 0 = <1 mph (calm), 1 = 1-3 mph (leaves barely move), 2 = 4-7 mph (leaves rustle, sm. twigs move), 3 = 8-12 mph (leaves & sm. twigs in constant motion), 4 = 13-18 mph (sm. branches move), 5 = 19-24 mph (lg. branches & sm. trees start to sway), 6 = 25-31 mph (lg. branches in constant motion), 7 = 32-38 mph (whole trees move), 8 = 39-46 mph (twigs & sm. branches break).

• Noise: N = None, A = Aircraft, B = Bird song/calls, C = Creek/water drainage, M = Machinery, P = Rain/hail, T = Tree drip, V = Vehicle, W = Wind, = Other (explain in Notes).

Protocol Review

□ Survey began on time (at least 45 minutes before sunrise)	Survey Visit to Protocol?: (circle one) Yes / No						
Survey continued uninterrupted for at least 2 hours							
□ Vertical visibility to 1-canopy height was not impeded for >12 minutes	Protocol Reviewer Name						
\Box Horizontal visibility to 100m was not impeded for >12 minutes	Protocol Reviewer Affiliation:						
Audibility to 200m was not impeded for >12 minutes							
	Protocol Review Date						

MARBLED MURRELET FOREST SURVEY FORM

Observer (s) Initials: _____

SURVEY ACYIVITY:

Units of Measure (circle one): U.S. / Metric

Note Significant Weather Changes on Page 1

Stratum Name /No:

																	Audi	tory																					
[Detection #		#	Detection Time					Initial etection		Initial Distance to Birds Seen		Туре		Vocal Series		Other	Overlap ping	# E St	Birds	Behavior	Ini	tial F	light ion	в	ird He See	eight	C Dis	Close	est ce to	Closest Distance to Birds Heard (Loudness)	Dep Di	art F	- light	D	Fina etec	tion	Notes	
			Time			[Direction			Birds Se				K#/M		Other Voc	L/M	Y/N	Coon						00011			Distance to Birds Seen			(Loudness) L = Loud: 0-50m M = Moderate: >50- 150m F=Faint: >150m				Direction				
			-				-						• • •																				-				• • •		Start
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																																					1		

Dete	ectic	ction # Additional Notes												

TYPE: Heard; Seen; Both heard and seen; _BEHAVIOR: Flyover above canopy (straight flight); Circling (or arcing) above canopy; Below-canopy (straight flight); Through (at_or below-canopy) flight; Unknown

Area Name _____

Detections - This Side Page Total: _____

Month _____ Day ____ Year ____

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Station Number: _____