NABat NORTH AMERICAN BAT MONITORING PROGRAM

Wildlife Acoustics SM2BAT+

Stationary Point Surveys		SM2BAT+
On board settings (switches or jumpers)	Bias	on or off
	HPF	1 kHz
	Gain (fill in Left or Right depending on channel selected for mic attachment)	0 (near roost, or close to bats) or 12 (general foraging) if using U1 mic. If using SMX-US old mic, then 36 and 48 respectively.
Sample rate		192,000 or 384,000
Channels		left or right, whichever channel mic will be attached to (ZC requires left microphone-channel)
Compression		Wav, or ZC
Advanced settings	Dig HPF Left	fill in line that corresponds to microphone-channel being used; 16kHz if no bats in area produce below this, otherwise 8kHz
	Dig HPF Right	
	Dig LPF Left	n/a
	Dig LPF Right	n/a
	Trg Lvl Left	fill in line that corresponds to microphone-channel being used; 12 - 18 dB depending on level of ambient noise
	Trg Lvl Right	
	Trg Win Left	fill in line that corresponds to microphone-channel being used; 2 s
	Trg Win Right	
	Trg Max Length	15 s
	Div Ratio	n/a (for earphone listening only)
Program/Schedule	Do - Until Loops	**1 AT SSET-00:30:00** **2 RECORD 01:00:00** **3 GOTO LINE 02 00X** **4 UNTSRIS+00:30:00** **5 GOTO LINE 01 00X** if recording ZC, use the following to force recalculation of noise floor: **1 AT SSET-00:30:00** **2 RECORD 01:00:00** **3 PAUSE 00:02:00** **4 GOTO LINE 02 00X** **5 UNTSRIS+00:30:00** **6 GOTO LINE 01 00X**
	Records 30 minutes before sunset, all night, and then stops 30 min after sunrise.	

Mobile Transect Surveys		SM2BAT+ (with handheld GPS synchronized; and directional horn on mic)
On board settings (switches or jumpers)	Bias	on or off
	HPF	1 kHz
	Gain (fill in Left or Right depending on channel selected for mic attachment)	0 (near roost, or close to bats) or 12 (general foraging) if using U1 mic. If using SMX-US old mic, then 36 and 48 respectively.
Sample rate		192,000 or 384,000
Channels		left or right, whichever channel mic will be attached to
Compression		Wac0
Advanced settings	Dig HPF Left	fill in line that corresponds to microphone-channel being used; 16kHz if no bats in area produce below this, otherwise 8kHz
	Dig HPF Right	
	Dig LPF Left	n/a
	Dig LPF Right	n/a
	Trg Lvl Left	fill in line that corresponds to microphone-channel being used; 12 - 18 dB depending on level of ambient noise
	Trg Lvl Right	
	Trg Win Left	fill in line that corresponds to microphone-channel used; 2 s
	Trg Win Right	
	Trg Max Length	1.5 - 2 hours (length of driving transectanticipated)
	Div Ratio	16 or personal preference (for listening with earphones only)
	Force Record	When ready to drive, force record pushing up and down arrow at the same time. Take caution that detector does not lose power at any point during the driving transect, as wac file will corrupt
	Post-recording processing	convert wac to wav in Kaleidscope. Use 3rd party sofware such as Myotisoft Transect to create track log from GPS and;embed GPS waypoints into filenames