- 1. Скачиваем и ставим CW Skimmer 2.1 (содержит Omnirig) <u>https://www.dxatlas.com/CwSkimmer/</u>
- 2. Включаем аудио-устройства трансивера

<i>~</i>	Радиопередатчи 4- WOLF Transceiv Готов	K ver AUDIO		
	Цифровой выход AMD High Definit Не подключено	l ion Audio Devi	ice	
	Динамики Realtek(R) Audio Устройство по ум	іолчанию		

谢 Звук

Воспроизведе Выберите у	ение Запись Звуки Связь /стройство записи, параметры которого) нужно изменить:
<i>~</i>	Радиоприемник 4- WOLF Transceiver AUDIO Готов	
<i>~</i>	Радиоприемник 4- WOLF Transceiver IQ Готов	
5	Набор микрофонов Realtek(R) Audio Устройство по умолчанию	
	Стерео микшер Realtek(R) Audio Отключено	
Настроит	ть По умол	ичанию I▼ Свойства
	ОК	Отмена Применить

3. Запускаем омнириг, настраиваем

Omni-Rig Setti	ngs	×
RIG 1 RIG 2	About	
Rig type	TS-2000	•
Port	СОМ 3	•
Baud rate	115200	•
Data bits	8	-
Parity	None	•
Stop bits	1	•
RTS	Low	•
DTR	Low	•
Poll int., ms	100	\$
Timeout, ms	4000	\$
0	к	Cancel

- 4. Запускаем CW Skimmer, регистрируем
- 5. Настраиваем скиммер

CW Pitch выбираем как в трансивере (Меню -> CW Settings -> Pitch)

Settings	×
Radio Audio CAT Mi	sc. Operator Network Calls
Hardware Type C 3-kHz Radio C SoftRock C SoftRock-IF C SDR-IQ C QS1R C Mercury C Perseus	LO Frequency, Hz 7011760 🚖 CW Pitch, Hz 600 🚖 Audio IF, Hz 0 🚖
Sampling Rate • 48 kHz • 96 kHz • 192 kHz	
	OK Cancel

Settings X
Radio Audio CAT Misc. Operator Network Calls
Soundcard Driver
⊙ MME ○ WDM
второй вход (I/Q)
Signal I/O Device
02 Радиопередатчик (4·WOLF Transc
Left/Right = 1 / Q
C Left/Right = Q / I
- Shift Bight Channel Data bu
C -1 sample • 0 samples C +1 sample
0K Cancel
Settings ×
Settings × Radio Audio CAT Misc. Operator Network Calls
Settings × Radio Audio CAT Misc. Operator Network Calls
Settings × Radio Audio CAT Misc. Operator Network Calls CAT Interface © Use Radio 1 TS-2000
Settings × Radio Audio CAT Misc. Operator Network Calls CAT Interface © Use Radio 1 TS-2000 © Use Radio 2 NONE
Settings × Radio Audio CAT Misc. Operator Network Calls CAT Interface © Use Radio 1 TS-2000 © Use Radio 2 NONE Configure
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface © Use Radio 1 TS-2000 © Use Radio 2 NONE Configure
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface © Use Radio 1 TS-2000 © Use Radio 2 NONE Configure
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface Interfa
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface Image: CAT Interface
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface (*) Use Radio 1 TS-2000 (*) Use Radio 2 NONE Configure Configure (*) (*) (*) (*) (*)
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface Use Radio 1 TS-2000 Ose Radio 2 NONE Configure Configure<
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface Use Radio 1 TS-2000 Ose Radio 2 NONE Configure Configure<
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface Use Radio 1 TS-2000 Ose Radio 2 NONE Configure Configure<
Settings X Radio Audio CAT Misc. Operator Network Calls CAT Interface © Use Radio 1 TS-2000 © Use Radio 2 NONE Configure

Sattings	~
Settings	^
Radio Audio CAT	Misc. Operator Network Calls
✓ Enable Telnet Serve Port: 7300 ✓ Require Password Password:	er ns without "CQ"
Allow SKIMMER co	mmands
Conly to/from th	nis User:
/	для N1MM+ фича
🔲 Send Spectrum via	UDP
Source Name	CW Skimmer
Destination Address	127.0.0.1
Destination Port	13064
	OK Cancel

 Запускаем декод, проверяем что пошли скеды. Полоса обзора будет +- 12кГц от текущей в трансивере

CW Skimmer 2.1 - Registered to Dmitry Panin	-		×
<u>File V</u> iew <u>C</u> ommands <u>H</u> elp			
🔤 🖾 🕷 💷 👘 💼 👘 🗰 🗰	•	X	
	8—G14	SNA 555	
<u>а</u> та 			
r Internet internet inter	о— DE 0	IQ4FH	
🖬 🔔 37% Decoders: 9 of 9 SNR: -3 dB Tin: 1 user			

7. Включаем DXLog

8. Открываем настройки интерфейса с TRX



- 9. В трансивере выставляем настройку Menu -> CW Settings -> PTT Туре -> PTT (отключаем срабатывание от ключа, нужно только от секвенсора)
- 10. Выставляем настройки интерфейсов

...

nte	па	ce	coi	ntig	ura	tior	1	

Timing		-CW keying	g		Digital Voice Keyer
Radio 1 polling (ms)	100	Max speed	d (WPM)	60	Enable DVK
Radio 2 polling (ms)	100	Min speed	(WPM)	10	DVK Playback device radio 1
	400	M - 1 - /8/	、 、	50	Динамики (Realtek(R) Audio)
PTTIead (ms)	400	vveight (%)	00	DVK Playback device radio 2
PTT tail (ms)	0	Compensa	ation (ms)	0	Динамики (Realtek(R) Audio) —
PTT sequence (ms) 20					DVK Record/Mute device
_					Default Recording Device ~
		Printer por	t		Mute during DVK playback
		Enable	ed S	etup	Mute when no DVK playback
					Use Windows MUTE/UNMUTE.EXE
			levice		
Interface: COM3	🗹 🔽 En	abled F	Radio1	~	Setup OmniRig
Interface: COM4	V 🗹 En	abled -		~	Setup
Interface COM10	~ 🗌 En	abled -		~	Setup
Interface: COM14	~ 🗌 En	abled -		~	Setup
Interface: COM1	 En 	abled -		~	Setup
Interface: COM2	 En 	abled -		~	Setup
Interface: COM7	 En 	abled -		~	Setup
				~	Setup
Interface: COM8	✓ □ En	abled -		•	Jetup

adio configuration								
Radio	Sp	eed		Bits	Parit	у	Stop	
OmniRig	~ 11	5200	\sim	8 、	N	\sim	1	\sim
Use radio's internal voi	ice keyer			I CI-V a	ddress (nex)		
Use CAT PTT comman	nd on Pho	ne and D	igital	-				
Use CAT PTT comman	nd on CW	-						
Use ICOM CI-V "Trans	sceive" mo	ode (no po	olling))				
Control FlexRadio DA	Kon Phon	e						
Reinitialize port after sv Reinitialize port after sv	witching fr	om TX to	RX					
Do not poll radio during	g TX							
Use radio DATA mode	for voice	keyer pla	ybac	k				
Always use radio DAT.	A mode fo	r any DIG	l mod	le				
Use transverter offsets	Offs	ets						
Spectrum								
Spectrum		Setup						
Spectrum -	~	Setup						
Spectrum - Keying & Control	~	Setup						
Spectrum - Keying & Control DTR (pin 4)	RTS (pir	Setup n 7)		D	SR/Foo	tswite	ch (pin	6)
Spectrum - Keying & Control DTR (pin 4) Always OFF ~	RTS (pir Always	Setup n 7) OFF		D V N	SR/Foo	otswite	ch (pin	6)
Spectrum - Keying & Control DTR (pin 4) Always OFF ~	× RTS (pin Always Active v	Setup n 7) OFF vith		D V N	SR/Foc	tswite	ch (pin	6)
Spectrum - Keying & Control DTR (pin 4) Always OFF ~	RTS (pin Always Active v Both rac	Setup n 7) OFF vith dio			SR/Foo	tswite	ch (pin	6)

PTT tail (ms)	Port settings		x
PTT sequence (ms))		
	DTR (pin 4)	RTS (pin 7)	DSR/Footswitch (pin 6)
	CW ~	PTT	✓ None ✓
		Active with	Rec to mem
		Both radio	× · · ·
Serial ports	Don't set ptt when using	j voice keyer	
1	-	Ì	OK Cancel
Interface: COM3			
Interface: COM4	 Enabled 	~	Setup

11. Проверяем что пошла синхронизация частоты, есть несущая (Ctrl+T), есть ввод с клавиатуры (Alt+K) и он не сжирает первую точку (слушаем самоконтроль на трансивере).

tions	Windows	Help							
Load	contest at sta	artup							
Auto	matic backup	0							
Lang	uage		•	AND	MODE	TYPE	RADTO 1	RADTO	2
Keyb	oard selector			40	CW	R	7011.8	3500	_ 0
CW 8	& Digital		•				,011.0		••
Conf	igure interfac	es							
Interf	ace specific o	options	•						
Ante	nna server co	nfiguration							
RTTY	configuration	n							
micro	HAM device	configuration	1						
OTRS	P device con	figuration							
WinK	ey configura	tion							1
Reco	rder configur	ation						x	
Rotat	tor configurat	tion							
Conf	igure networl	k							
Enab	le network								
Netw	orking		•						
Broad	dcast		•						
DX cl	uster		•		Spot handl	ing policy			•
Ham	САР		•		Edit conne	ction list			
Data	files		•		Reset conn	ection list			
Statis	tics files		•	~	Reconnect	default clu	ister node at start	t	
Log				~	Show talk i	messages f	rom cluster in Ga	b window	
- COG					Default spo	ot commer	it		
	tions Load Auto Lang Keyb CW & Conf Interf Anter RTTY micro OTRS Wink Reco Rotat Conf Enab Netw Broad DX cl Ham Data Statis	tions Windows Load contest at sta Automatic backup Language Keyboard selector CW & Digital Configure interface Interface specific of Antenna server co RTTY configuration microHAM device OTRSP device cont WinKey configurat Recorder configurat Recorder configurat Configure network Networking Broadcast DX cluster HamCAP Data files Statistics files	tions Windows Help Load contest at startup Automatic backup Language Keyboard selector CW & Digital Configure interfaces Interface specific options Antenna server configuration RTTY configuration microHAM device configuration OTRSP device configuration WinKey configuration Recorder configuration Rotator configuration Rotator configuration Configure network Enable network Networking Broadcast DX cluster HamCAP Data files Statistics files Log	tions Windows Help Load contest at startup Automatic backup Language F Keyboard selector CW & Digital F Configure interfaces Interface specific options F Antenna server configuration RTTY configuration microHAM device configuration OTRSP device configuration WinKey configuration Recorder configuration Rotator configuration Configure network Enable network Networking F Broadcast F DX cluster F HamCAP F Data files F Statistics files F Log F Conserve l'acetion F Conserve l'acetio	tions Windows Help Load contest at startup Automatic backup Language AND Keyboard selector CW & Digital A Configure interfaces Interface specific options A Antenna server configuration RTTY configuration microHAM device configuration OTRSP device configuration WinKey configuration Recorder configuration Rotator configuration Configure network Enable network Networking B Broadcast A DX cluster A HamCAP A Data files A Statistics files A Log A Current all antices A Log A Current all antices A Configure network A Configure ne	Windows Help Load contest at startup Automatic backup Language AND Keyboard selector 40 CW & Digital CW Configure interfaces Interface specific options Interface specific options Antenna server configuration RTTY configuration Mixey configuration OTRSP device configuration WinKey configuration Recorder configuration Configure network Enable network Networking Broadcast Spot handle HamCAP Edit connee Data files Show talk in Statistics files Y Log Y	Windows Help Load contest at startup Automatic backup Language AND MODE TYPE Keyboard selector CW & Digital AND MODE TYPE Configure interfaces Interface specific options Antenna server configuration Antenna server configuration RITY configuration microHAM device configuration Antenna server configuration VinKey configuration WinKey configuration Recorder configuration VinKey configuration VinKey configuration Recorder configuration Rotator configuration Spot handling policy MancAP Edit connection list Reset connection list Data files Show talk messages f Default spot commer	Windows Help Load contest at startup Automatic backup Language AND Keyboard selector 40 CW & Digital > Configure interfaces Interface specific options Interface specific options > Antenna server configuration > RTTY configuration microHAM device configuration OTRSP device configuration Provide configuration Recorder configuration Provide configuration Rotator configuration Provide configuration Rotator configuration Provide configuration Configure network Provide configuration Rotator configuration Provide configuration Configure network Provide configuration Rotator configuration Provide configuration Configure network Provide configuration Reset connection list Reset connection list Reset connection list Provide configuration Anterne context of start cluster node at start Provide configuration Configure network Provide configuration Provide configuration Reset connection list <	Windows Help Load contest at startup Automatic backup Language AND Keyboard selector 40 CW & Digital CW Configure interfaces Interfaces specific options Interface specific options Antenna server configuration RTTY configuration Mirkey configuration OTRSP device configuration WinKey configuration Recorder configuration X Configure network Enable network Enable network Pediate connection list Broadcast Spot handling policy HamCAP Edit connection list Data files Reset connection list Statistics files Y Log Comparison

12. Открываем список соединений с кластером

13. Добавляем локальный кластер скиммера, делаем его активным по умолчанию

Cluster	Address			Default			
VE3CGR-5	DX cluster defin	×					
VE3EY-7 VE6DXC	Name:	!Local					
VE7CC	Address:						
VK5GR-2 W1AAA	Port:						
W1NR W3LPL	Use default user/pass						
W6KK	Usemame:	RK3R					
W6RFU W9PA-4	Password:						
WD4IXD							
WW1R-9	1	ок	Cancel				
ZL2ARN-1							
!Local	127.0.0.1:730	0		YES			
New	Edit Delete	Default	Cancel	ОК			

Включаем соединение при старте

DX cluster	•		Spot handling policy	
HamCAP	•		Edit connection list	
Data files	•		Reset connection list	
Statistics files	•	1	Reconnect default cluster node at start	
		~	Show talk messages from cluster in Gab window	
		-	Default spot comment	

14. Перезапускаем лог или подключаемся вручную

st.dxi	n						
Con	nmands	Messages	Tools	Options	Windows	5	Help
	QSY					►	F 🚳 🔀 📩
	Change	mode				۲	
	Change	station type			Ctrl+F3		DERATOR BAND MODE
	Keyboar	d mode			Alt+K		AD ON
	Carrier				Ctrl+T		40 CW
	Set pass	frequency		c	Ctrl+Alt+P		
	Take a sk	ed			Alt+E		
	Pass a st	ation			Alt+D		
	Turn antenna to logged call (Short Path) Ctrl+F12 Turn antenna to logged call (Long Path) Alt+F12						
	Stop ant	enna		Ctrl+	Shift+F12		
	DX clust	er				►	Connect default (!Local)
	Spot				Alt+F3		Connect other
	Self-spot	t			Ctrl+S		Disconnect
	CW & D	igital message	es			۲	Talk Alt+T

15. Проверяем что на бендмапе побежали споты



16. Готово, можно пользоваться