

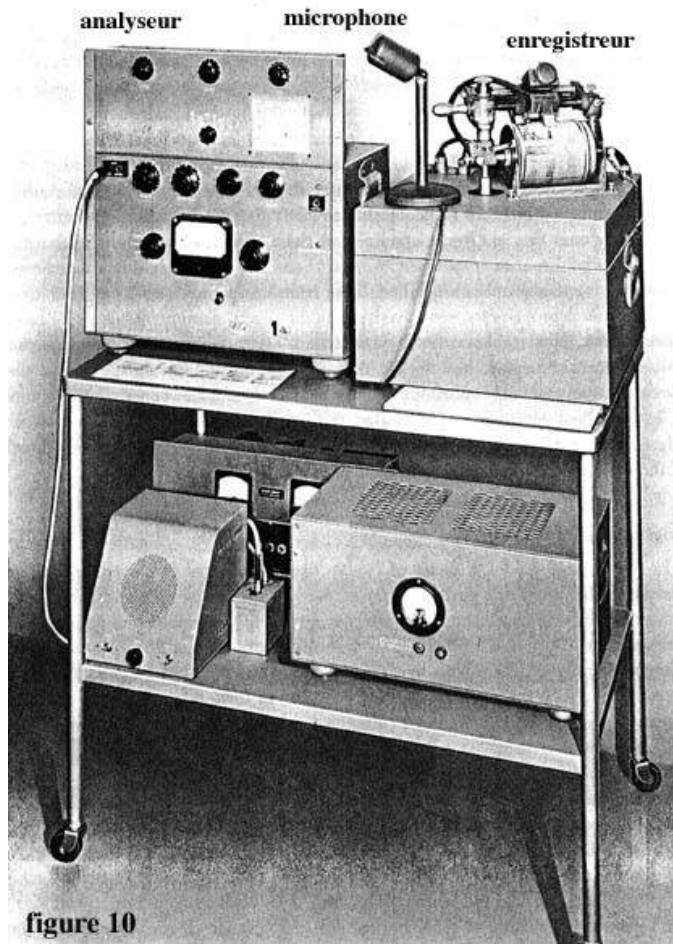
# L'approche acoustique de l'ornithologie

**Julien Rochefort**  
julienrochefort2@gmail.com

# Enregistreur Minidisc



# Sonagraphe 1946



# Sonagraphe 1965

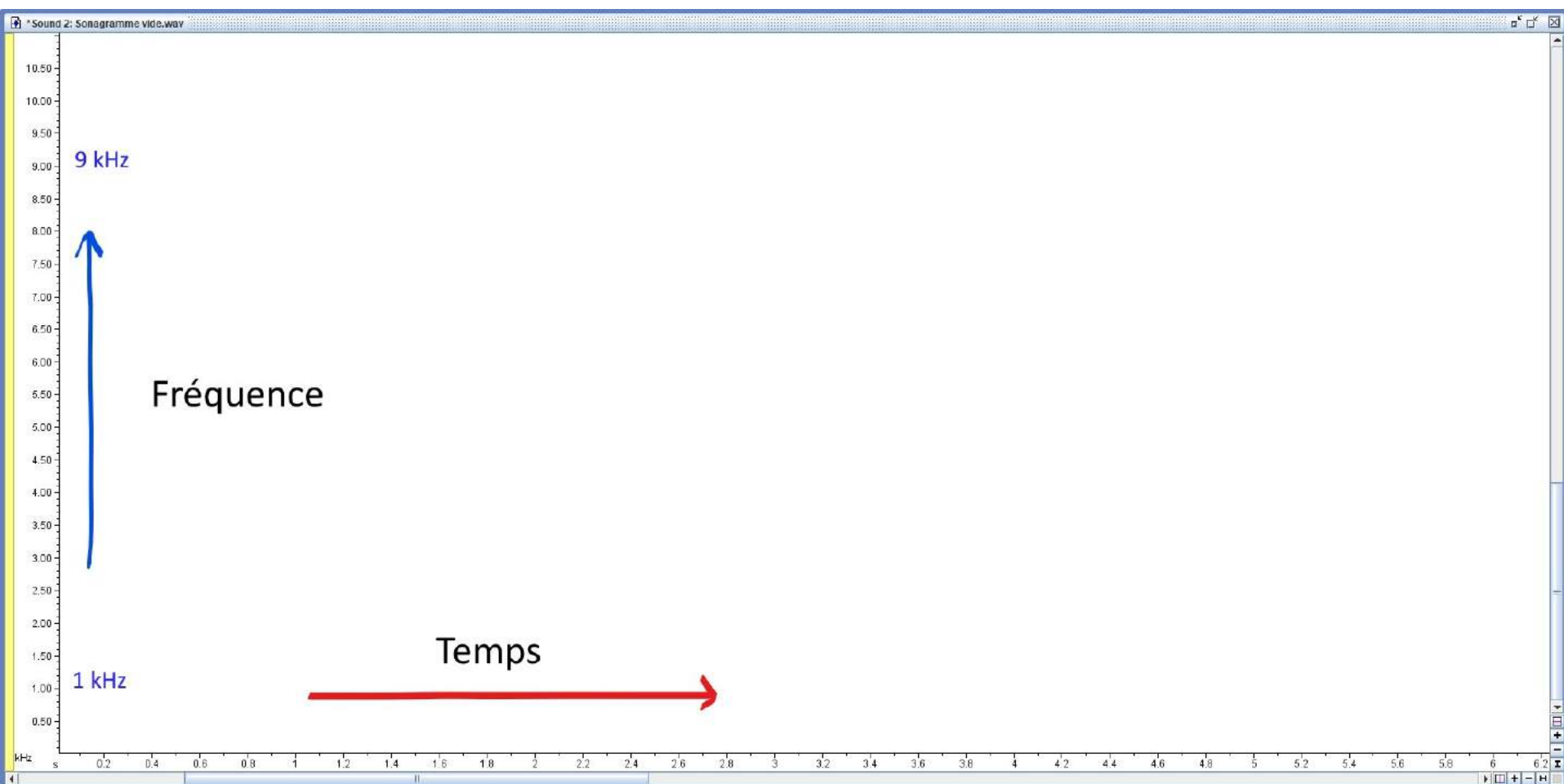


# Raven Lite 2.0

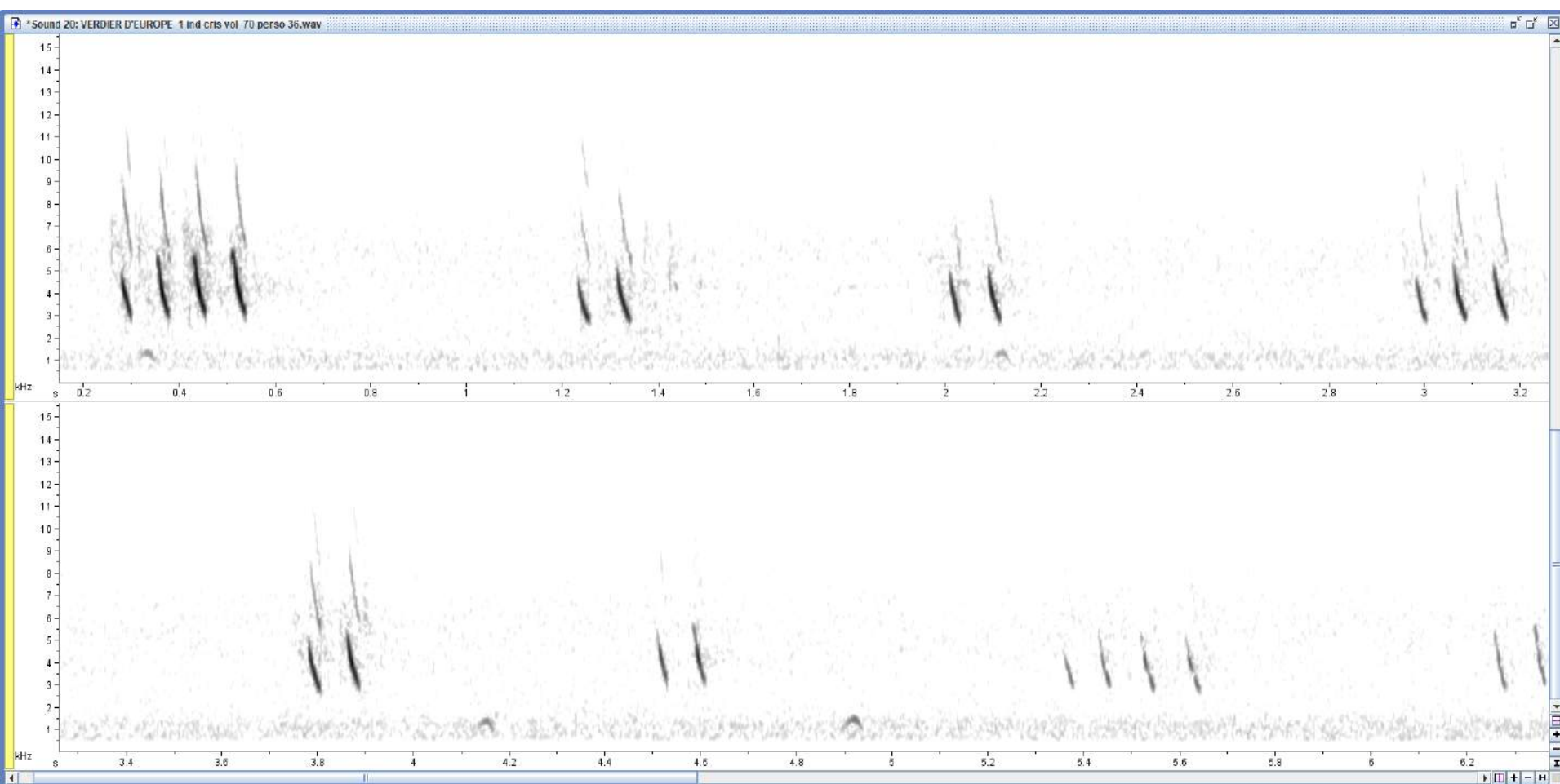
Logiciel gratuit



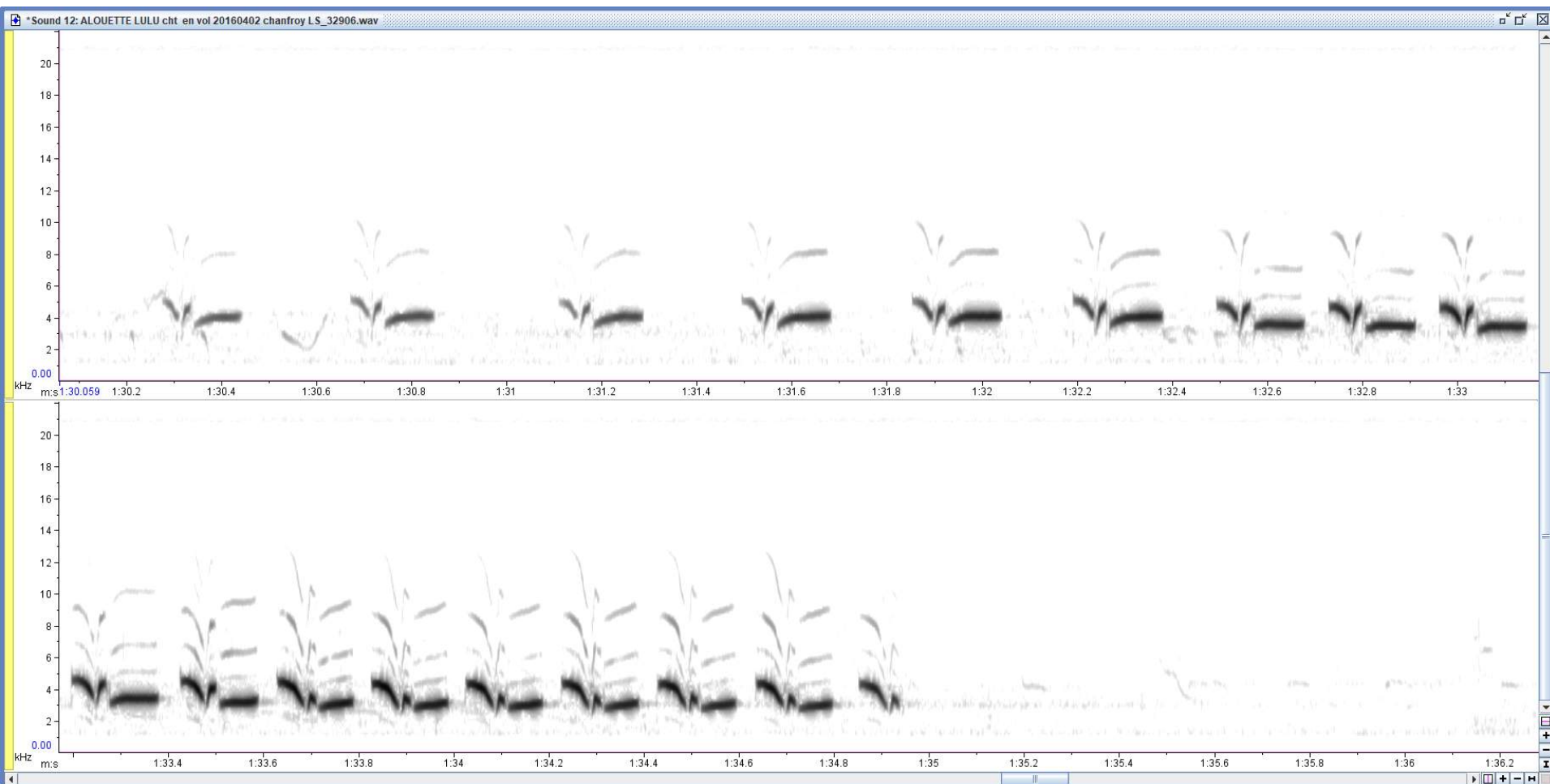
# Sonagramme



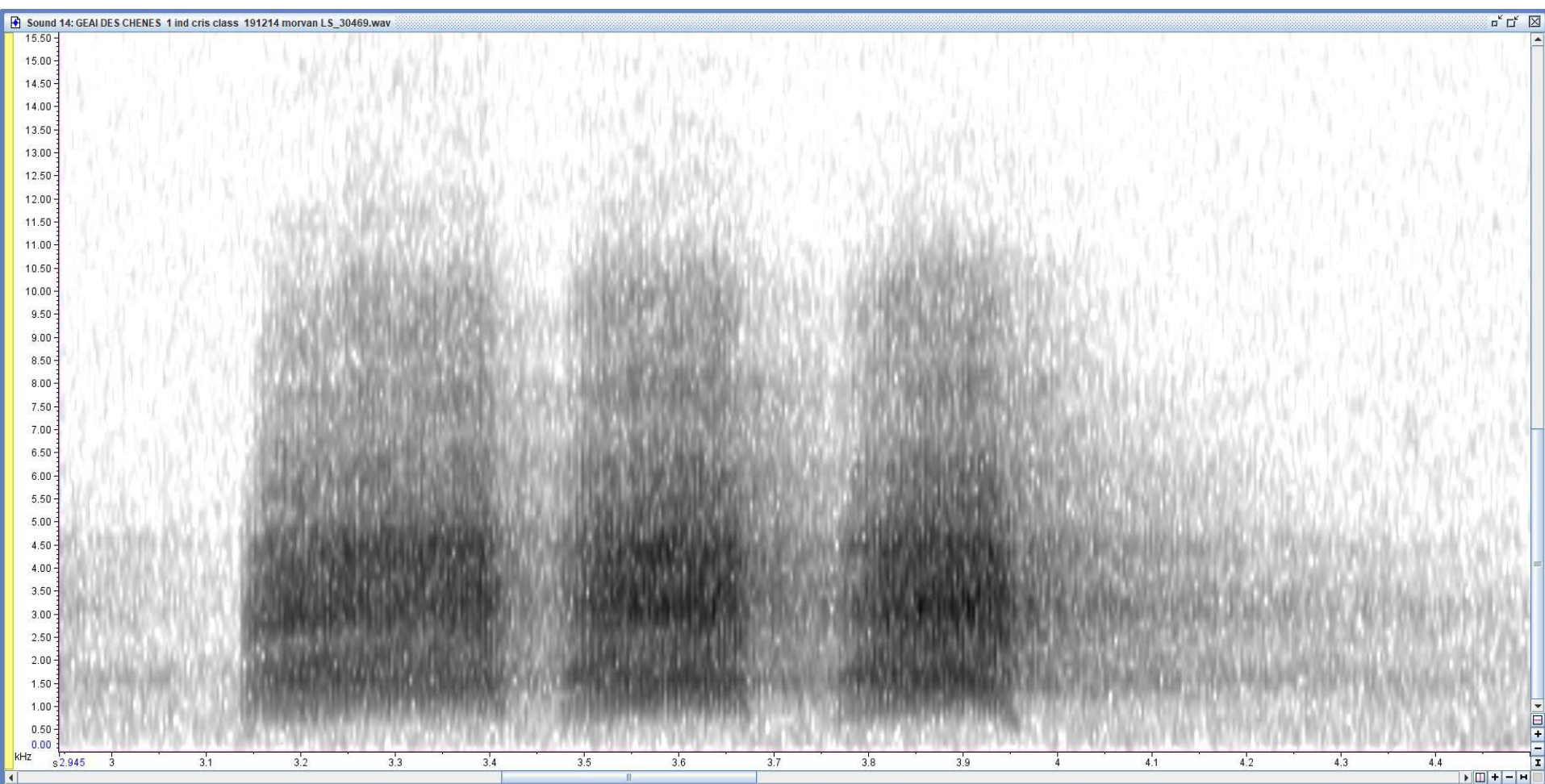
# Verdier d'Europe: cris de vol



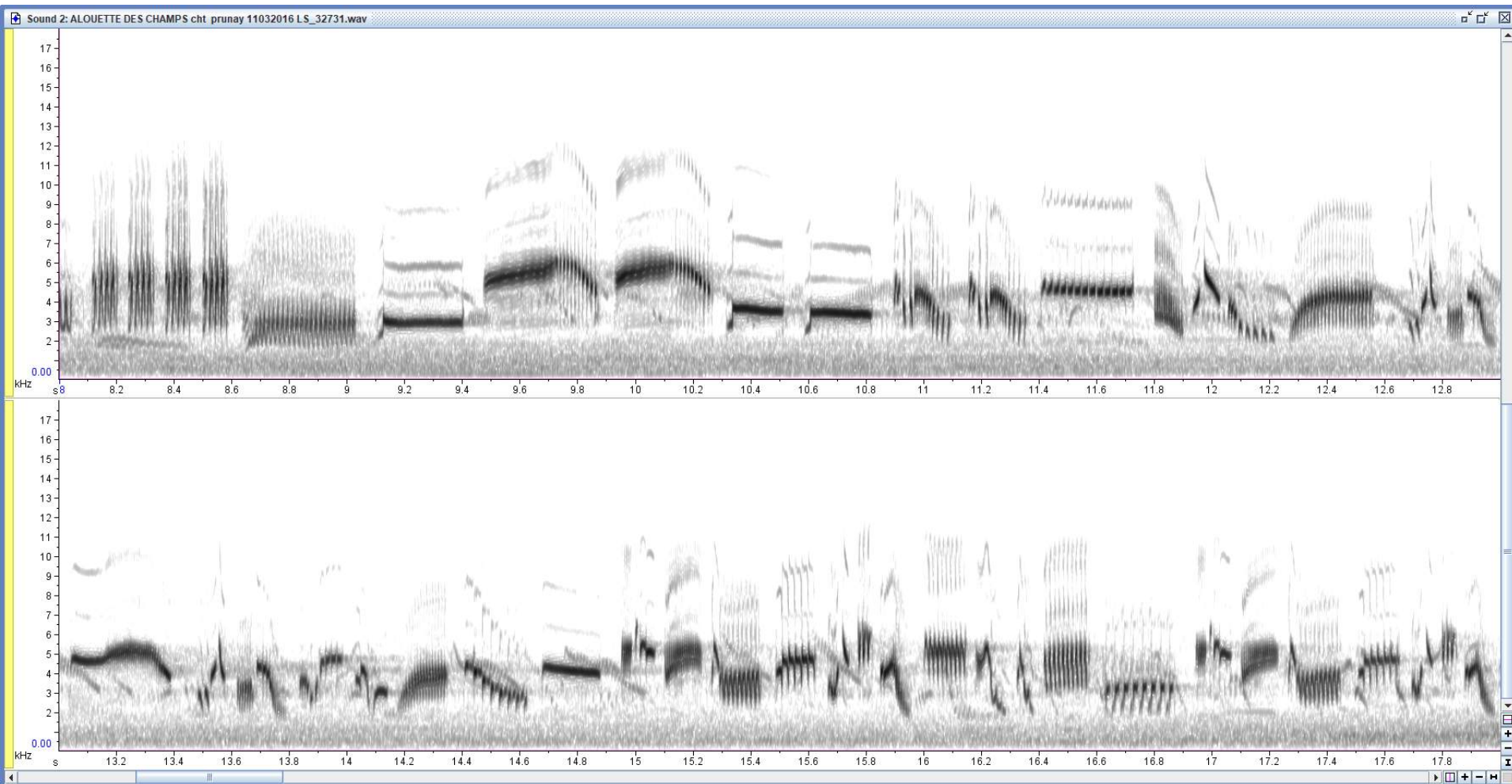
# Alouette Lulu: 1 phrase de chant



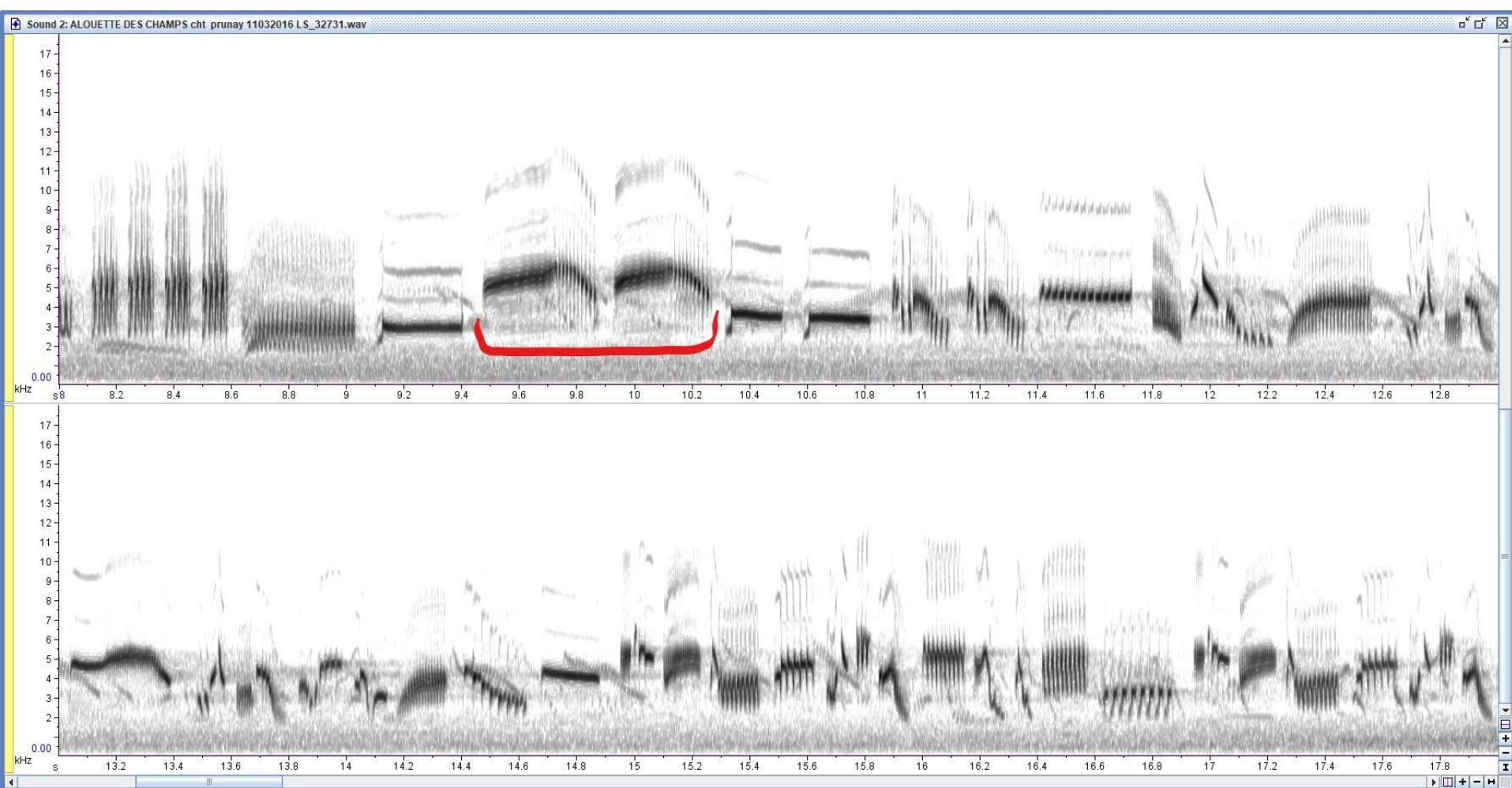
# Geai des chênes: cris



# Alouette des champs: chant

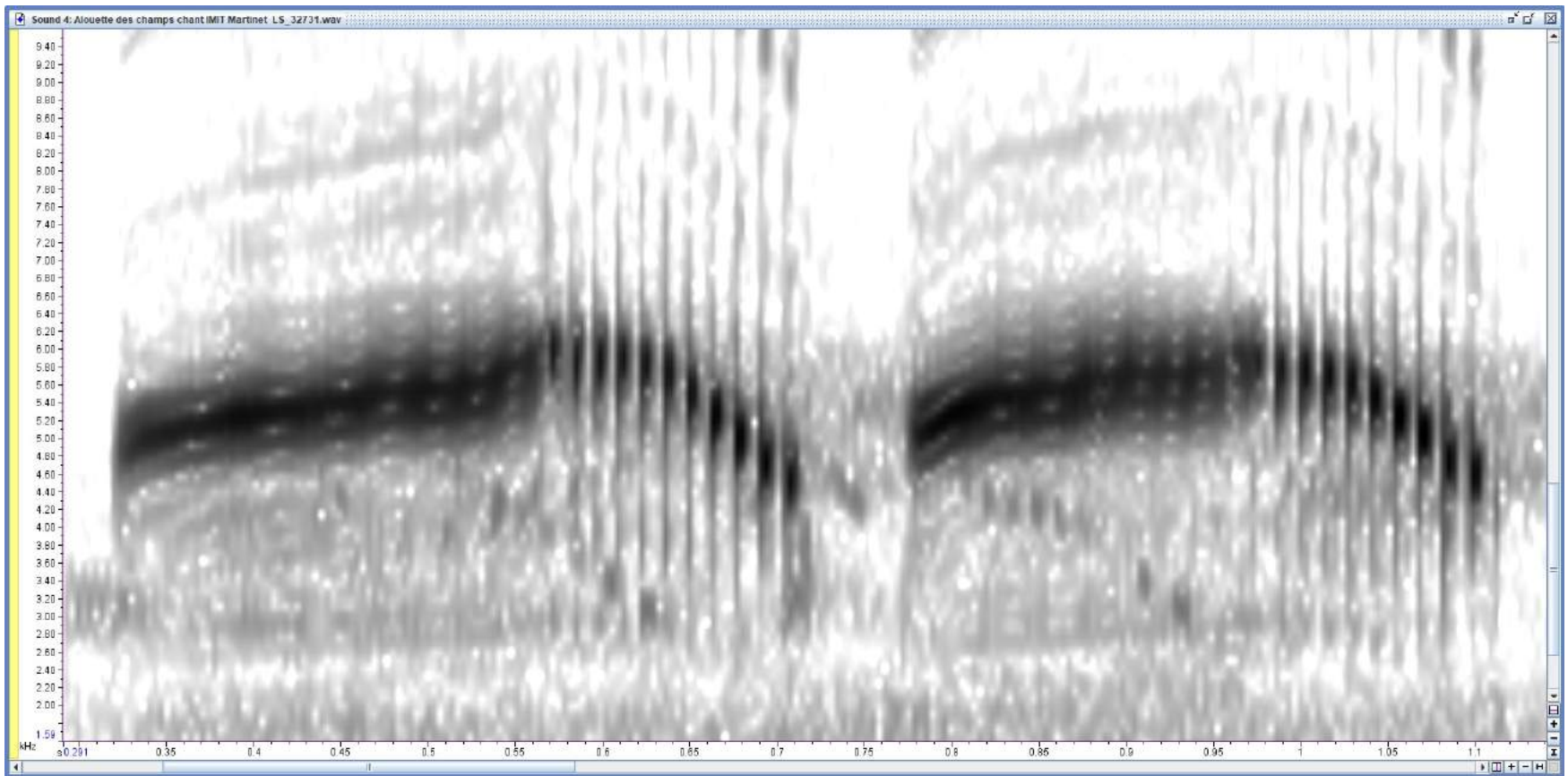


# Alouette des champs: chant



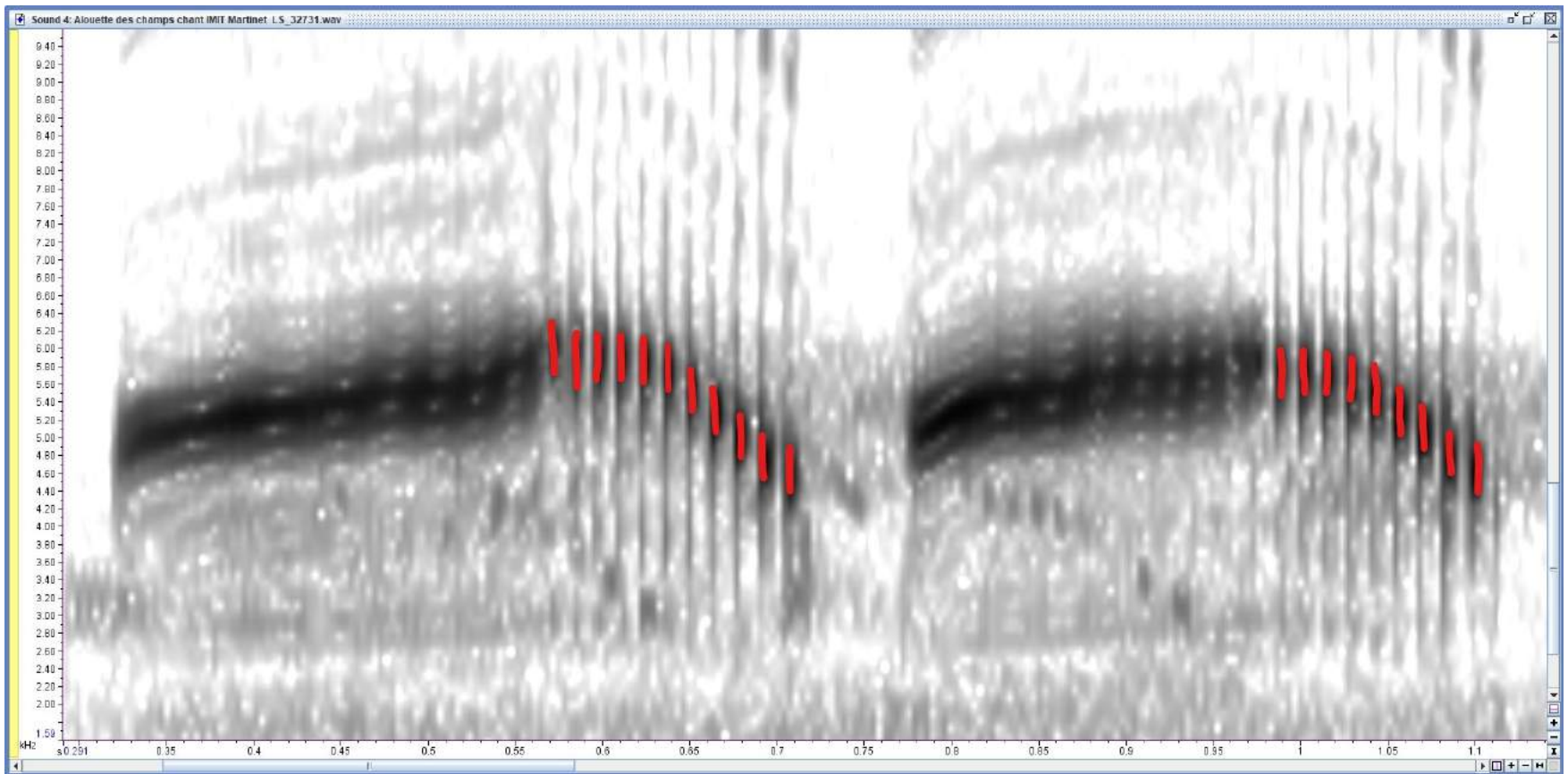
# Alouette des champs: chant

## Détail

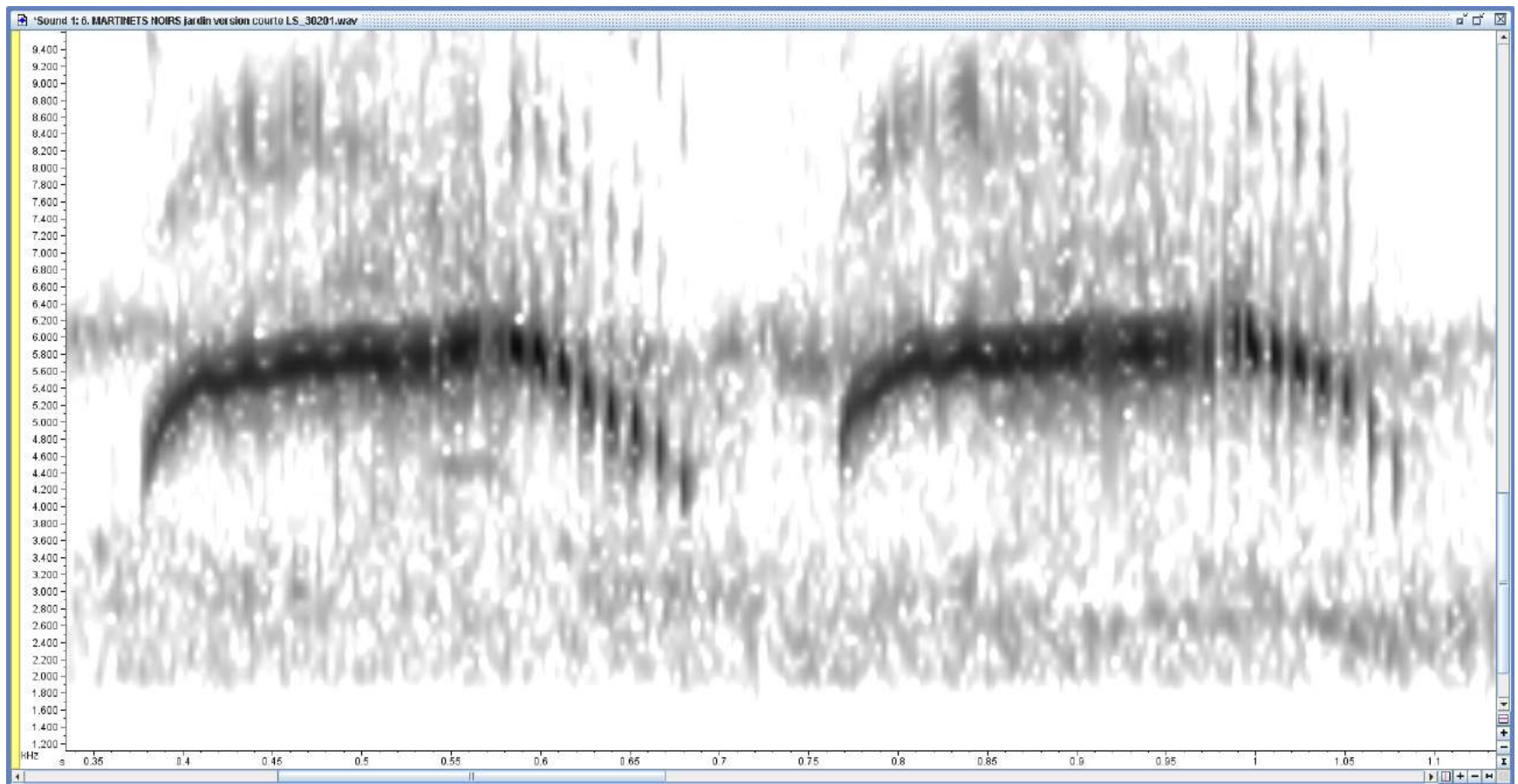


# Alouette des champs: chant

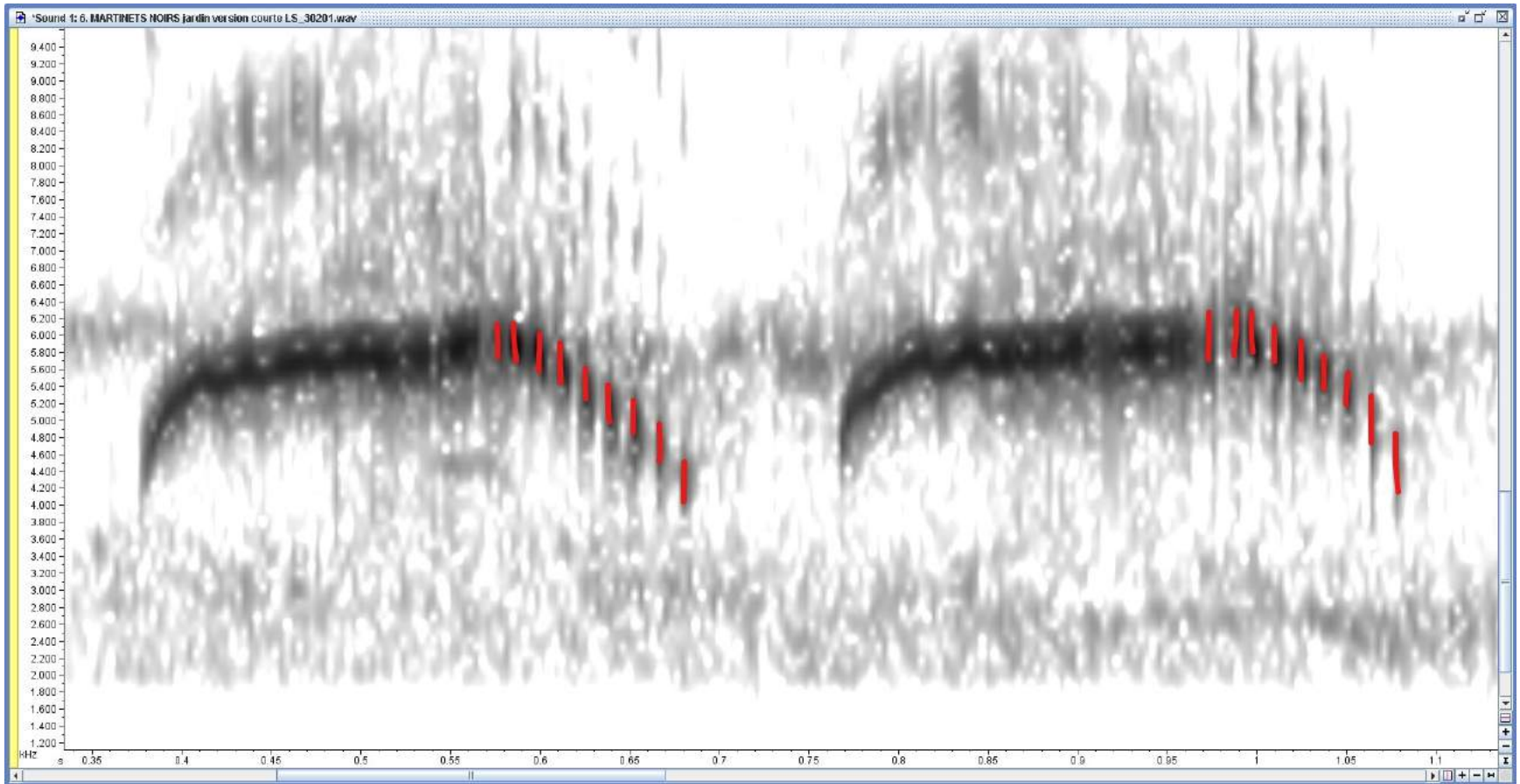
## Détail



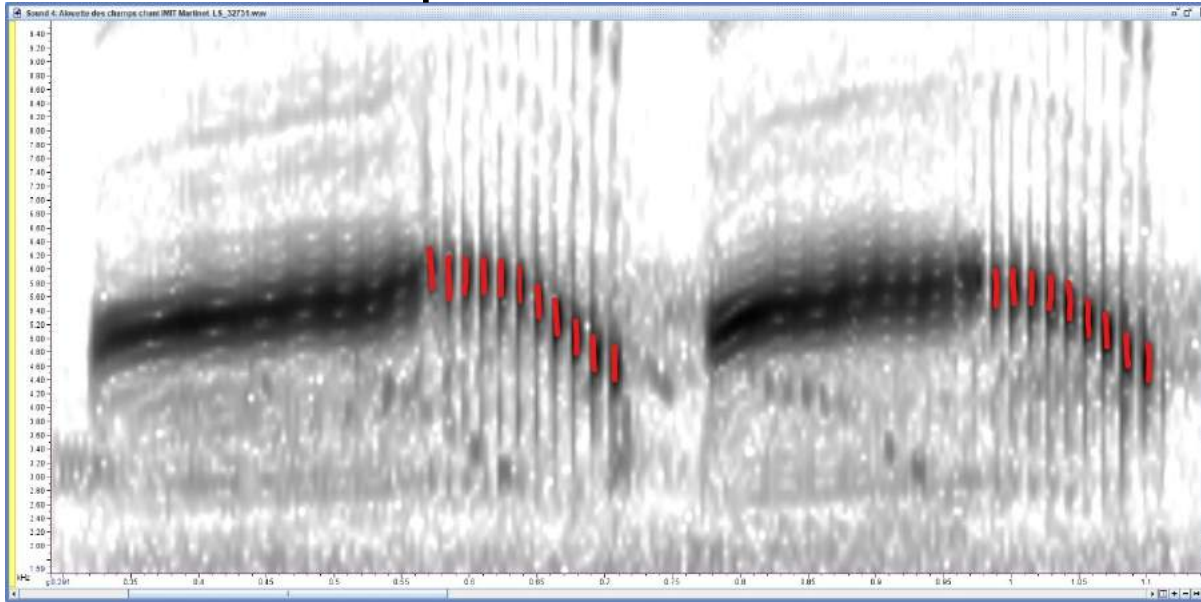
# Martinet noir: cris



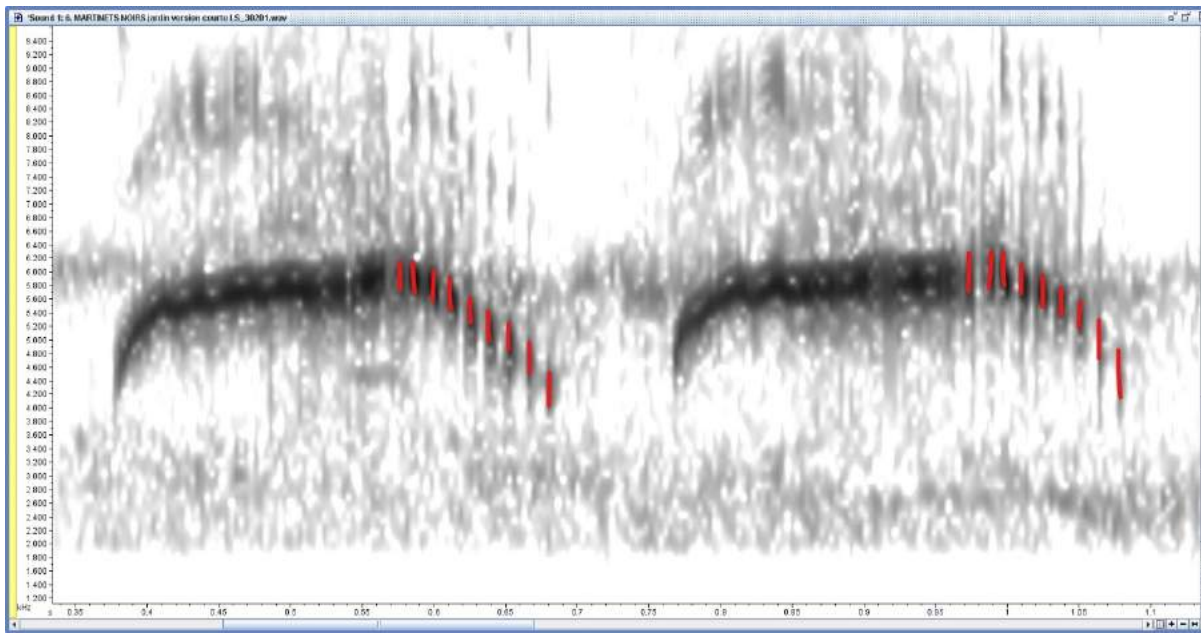
# Martinet noir: cris



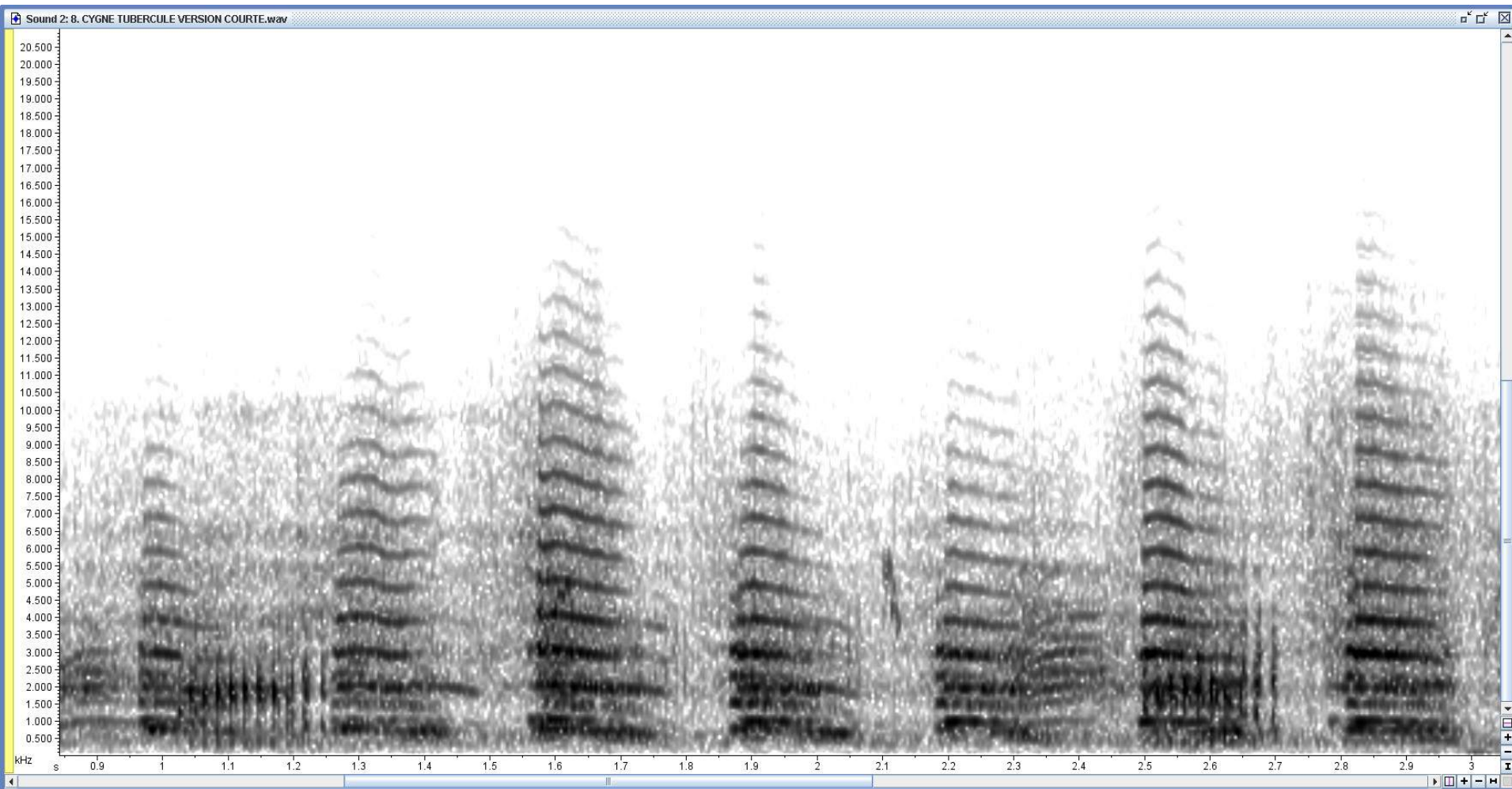
# Alouette des champs imitant cris de Martinet noir



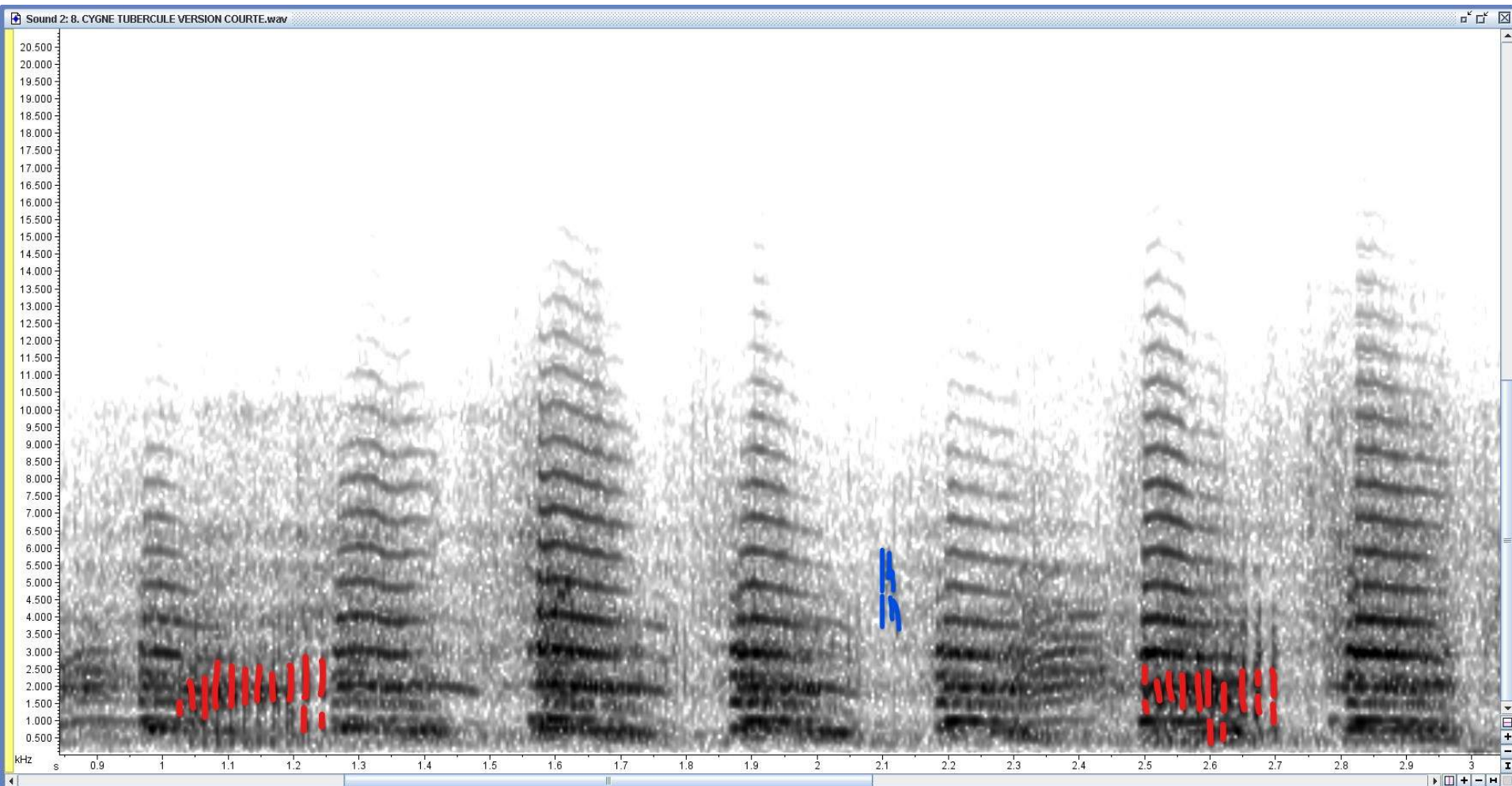
## Martinet noir: cris



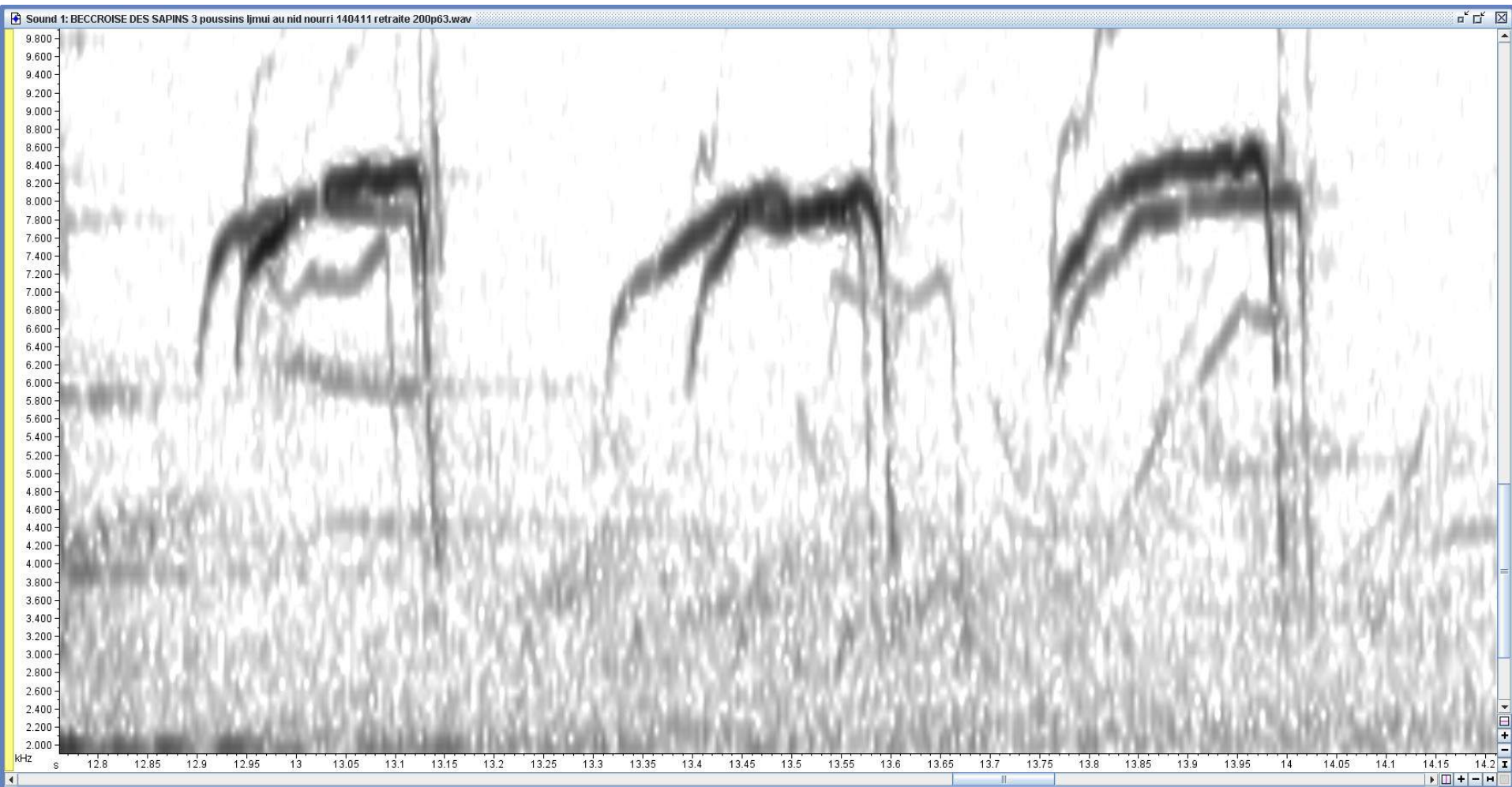
# Cygne tuberculé: bruit d'ailes en vol



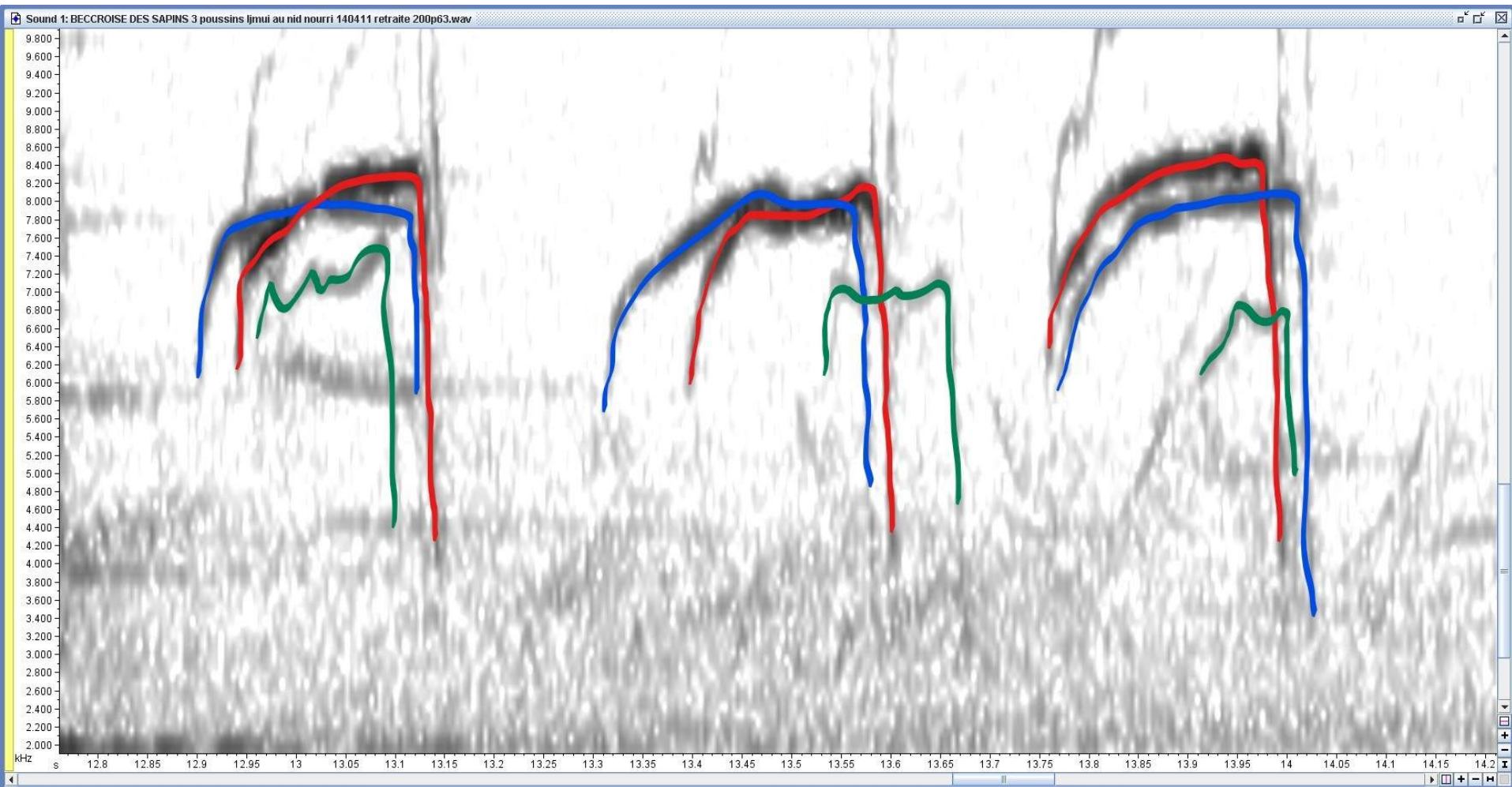
# Cygne tuberculé: bruit d'ailes en vol



# Poussins de Bec-croisés des sapins



# Poussins de Bec-croisés des sapins



Olympus LS-11



Tascam DR-05



ZOOM H5



Sennheiser ME66



Tête ME66  
et base K6



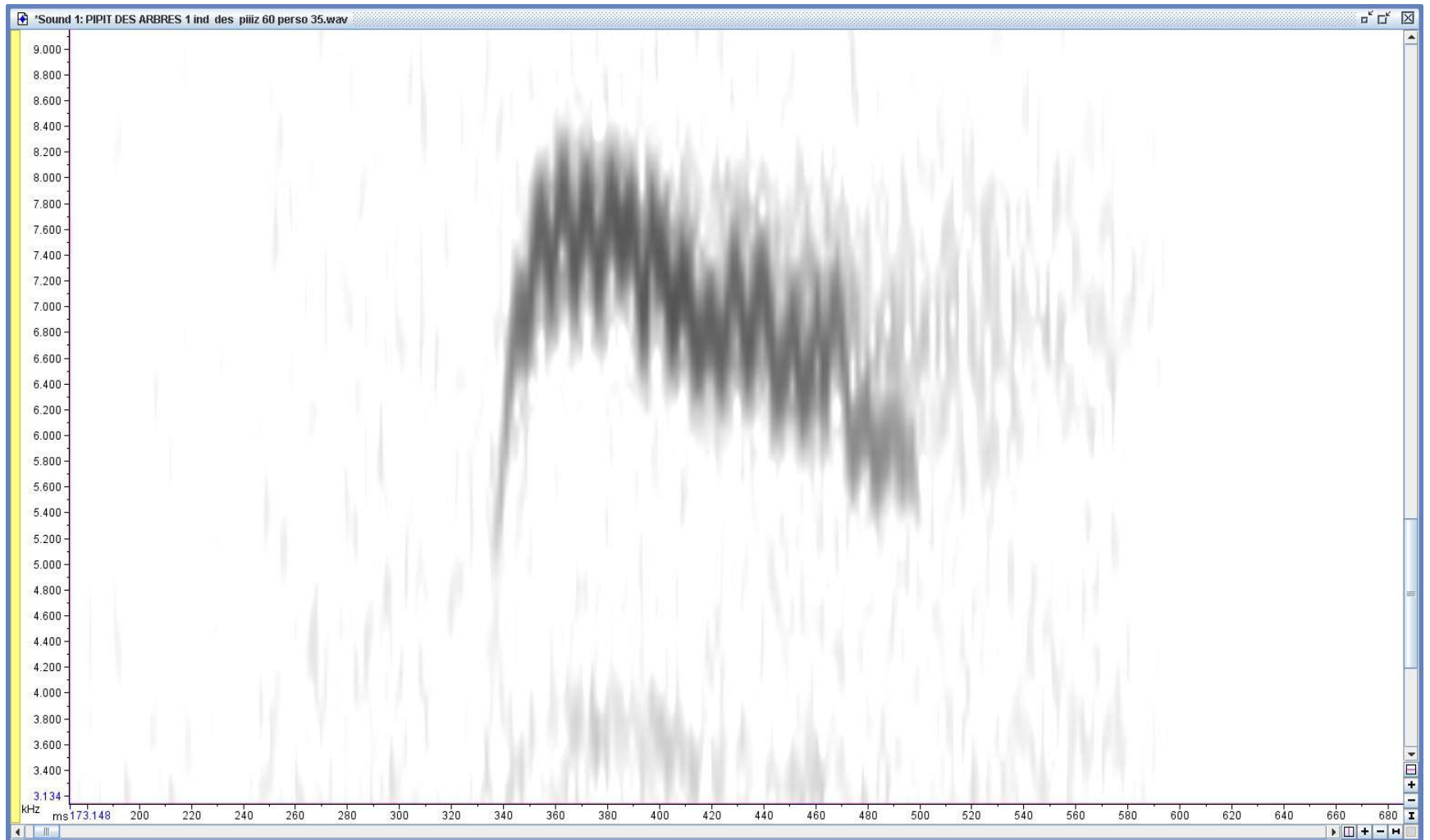
Sennheiser MKE 600



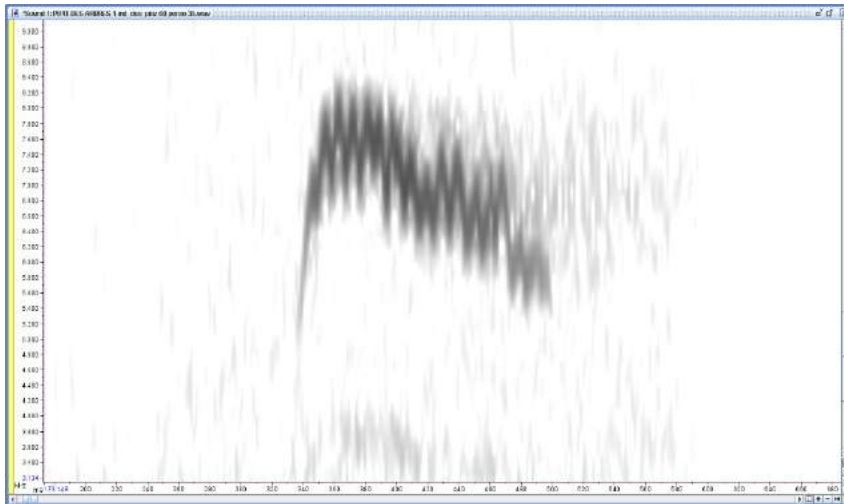
## Pièges à son



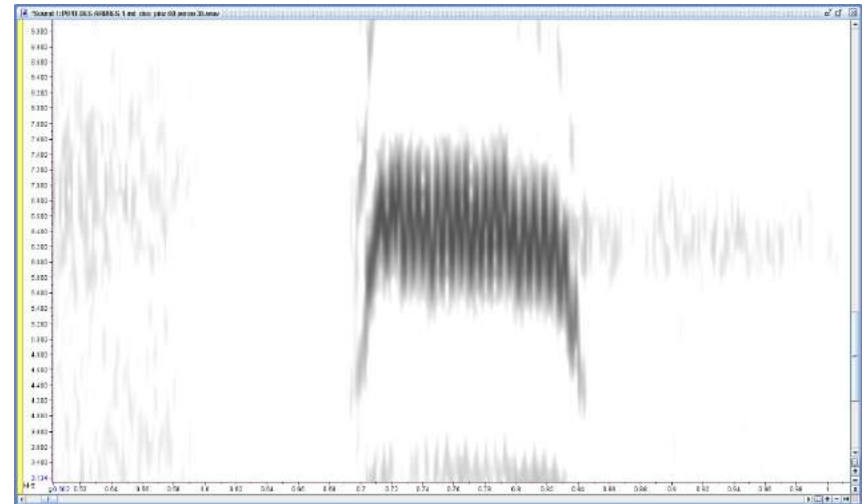
# Pipit à dos olive



## Pipit à dos olive



## Pipit des arbres



# TELINGA



# WILDTRONICS

Light, 22-inch, Polycarbonate, True Parabolic, Clear Dish

Shielded From EMI/RFI  
Simultaneously Use XLR/3.5mm Outputs

Use Phantom or 9V Battery

Accessory Bar Mounting Provision

Silent, Comfort Grip Handle

1/4-20 Tripod Mount Integrated into Handle

AMPLIFIED Mono-Stereo Model Available With Headphone/Line/Mic Outputs + Mixer!!

Integral Booster Discs Offer Response of a 30" Dish

2 Forward Facing Stereo Microphones Capture Wide Field Background

Built-in Foam Windscreens

Perfectly Focused Very Low Noise Parabolic Mic Array

Geometry Offers Unsurpassed Subject Isolation

Foam Suspension System to Reduce Handling Noise

Conformal Coating on all PC Boards



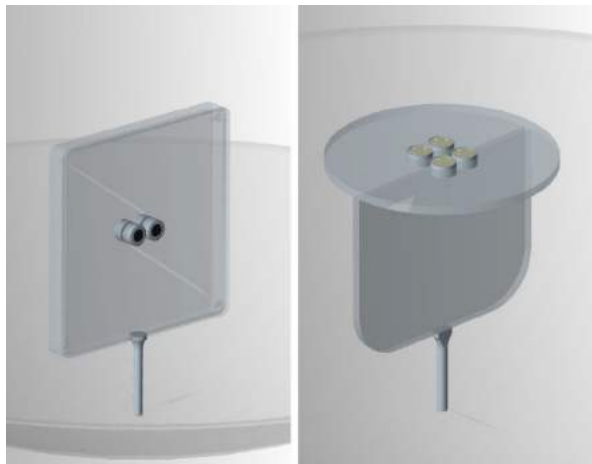
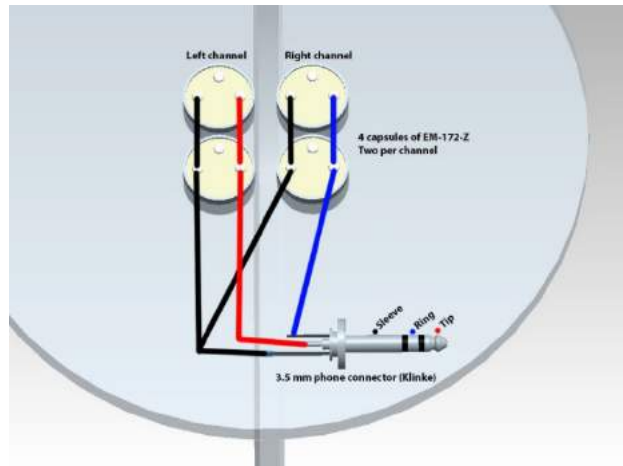
**Microphone Back Panel**  
(Mono-Stereo Model Shown)



# Réflecteur parabolique Wildtronics

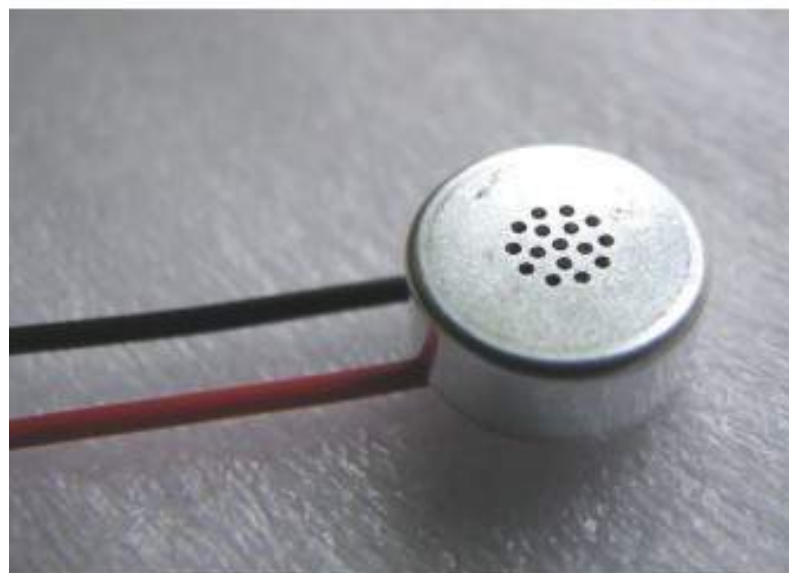


# DIY stereo parabola AVESRARES



# Micbooster.com

## Primo EM 172



## Migration nocturne: Etats-Unis, 1959



# Migration nocturne France 2017 !

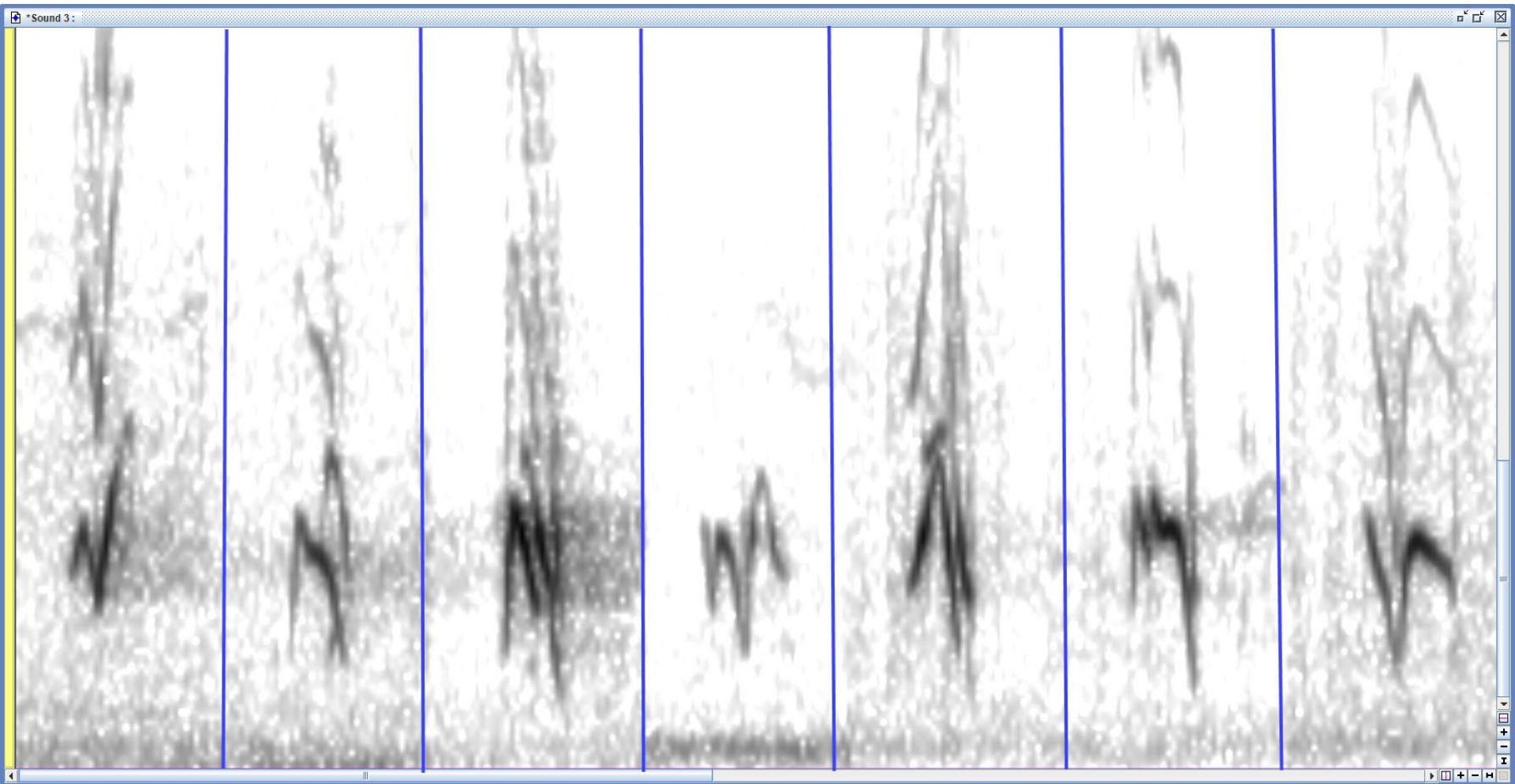


## Bec-croisé des sapins



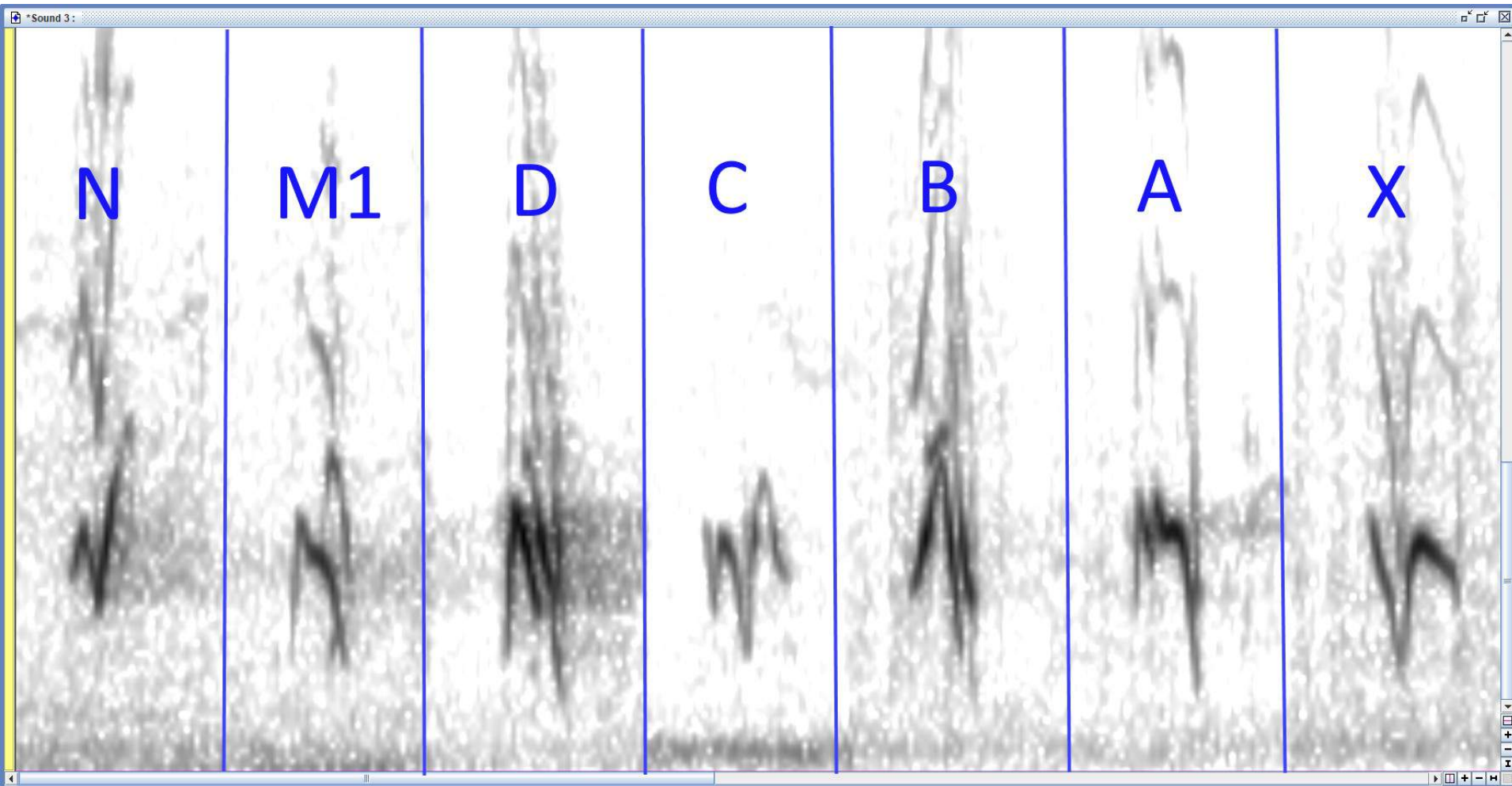
# Bec-croisé des sapins

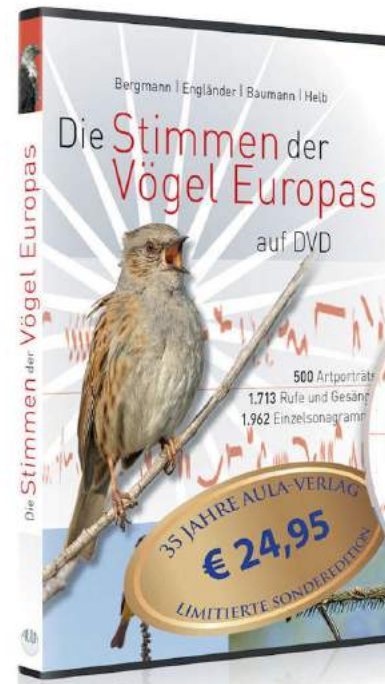
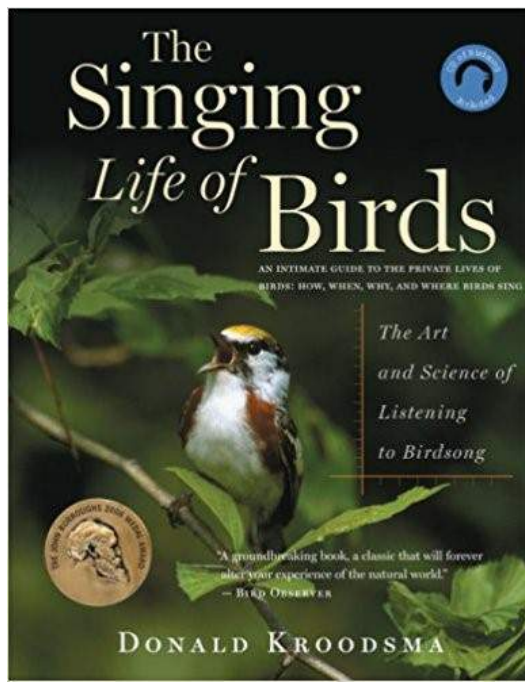
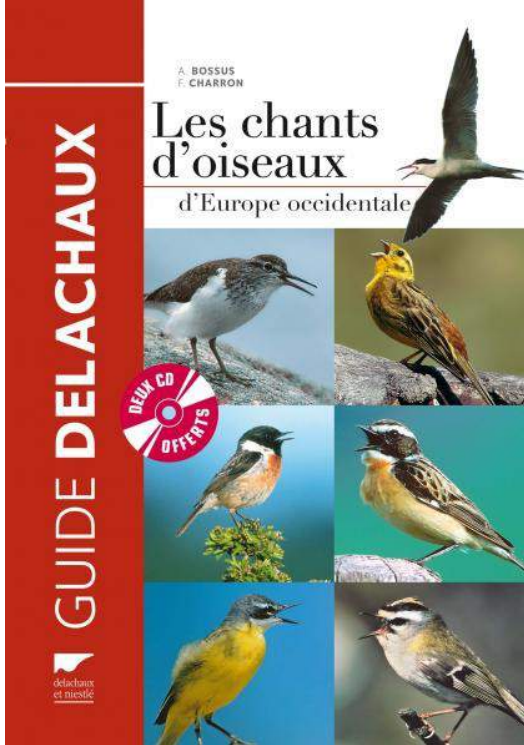
## Cris de vol



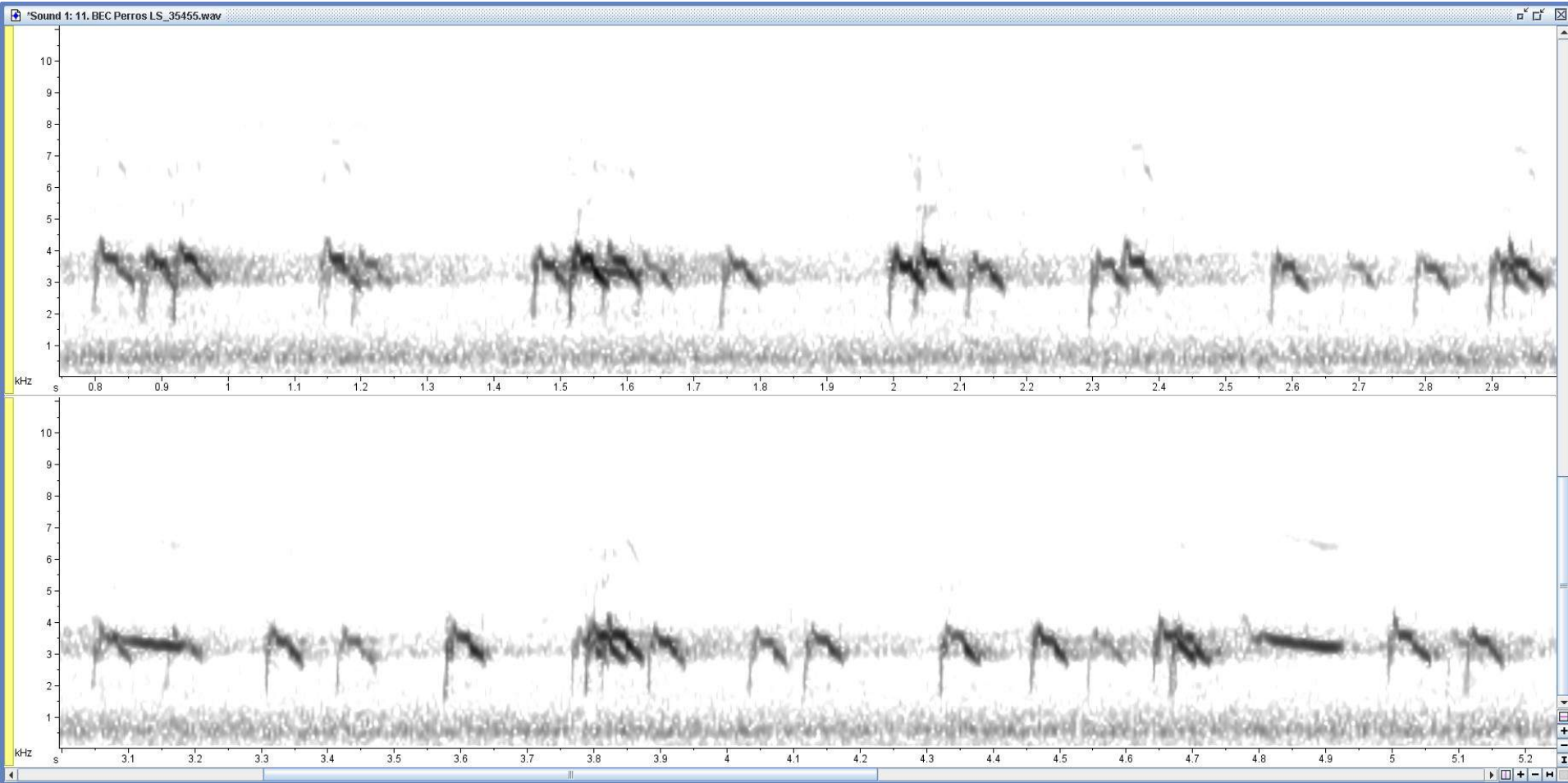
# Bec-croisé des sapins

## Cris de vol

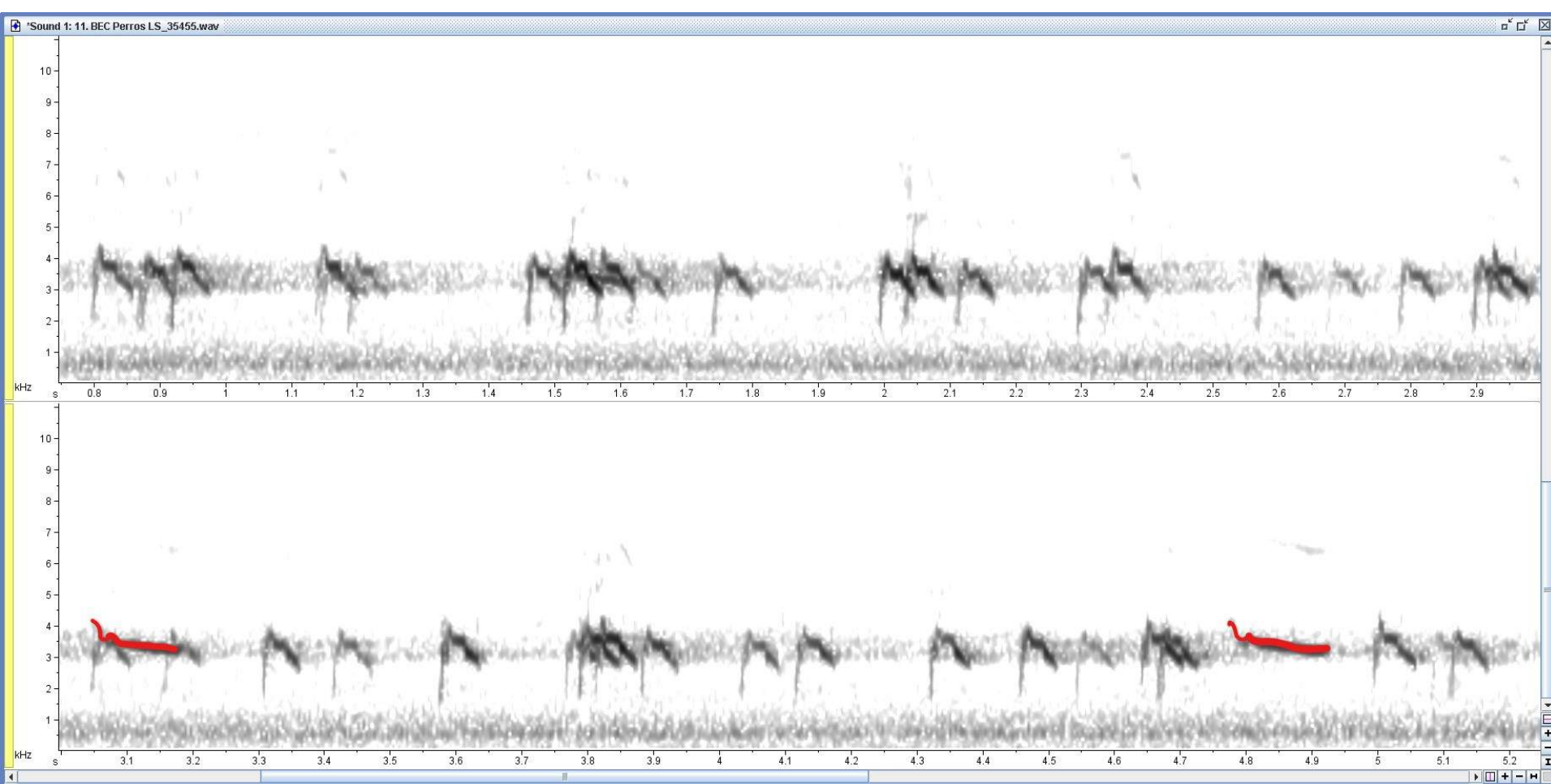




# Bec-croisé perroquet: cris de vol



# Bec-croisé perroquet: cris de vol



et Bouvreuil pivoine !

