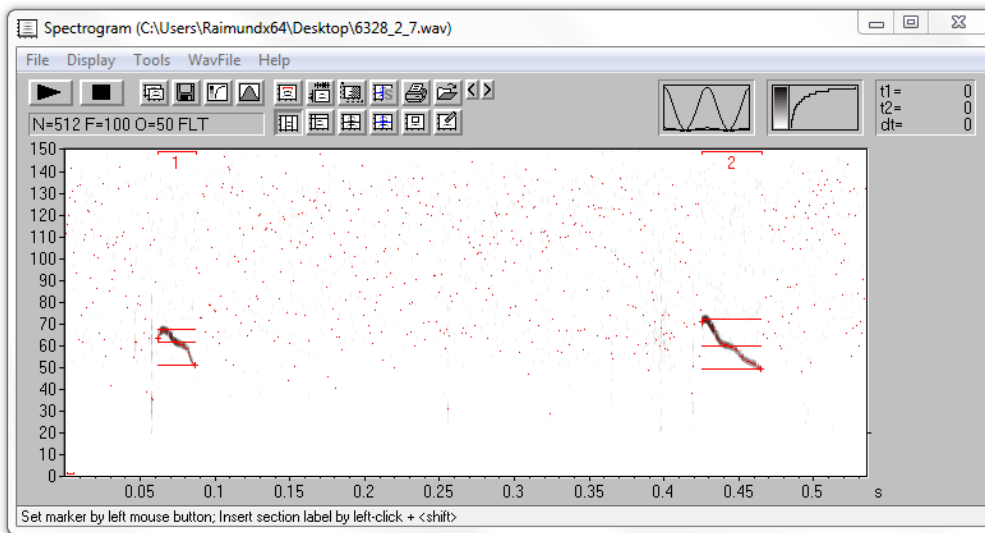# Avisoft Bioacoustics

Sound Analysis Software and
Ultrasound Recording/Playback **Hardware**
for Investigating Animal Acoustic Communication

Year	Milestones
1990	Initial launch of the sound analysis software Avisoft-SONAGRAPH (IBM PC running MS-DOS)
1993	Avisoft-SASLab Pro 1.0 (migration to Windows)
1999	Automatic Parameter Measurements tool in SASLab Pro
2001	Ultrasound recording hardware Avisoft-UltraSoundGate
2004	Condenser microphone CM16/CMPA (15…200 kHz)
2005	Whistle Tracking algorithm for detecting soft USVs in low signal-to-noise ratio recordings
2007	UltraSoundGate Player

Avisoft-SASLab Pro features for processing USVs

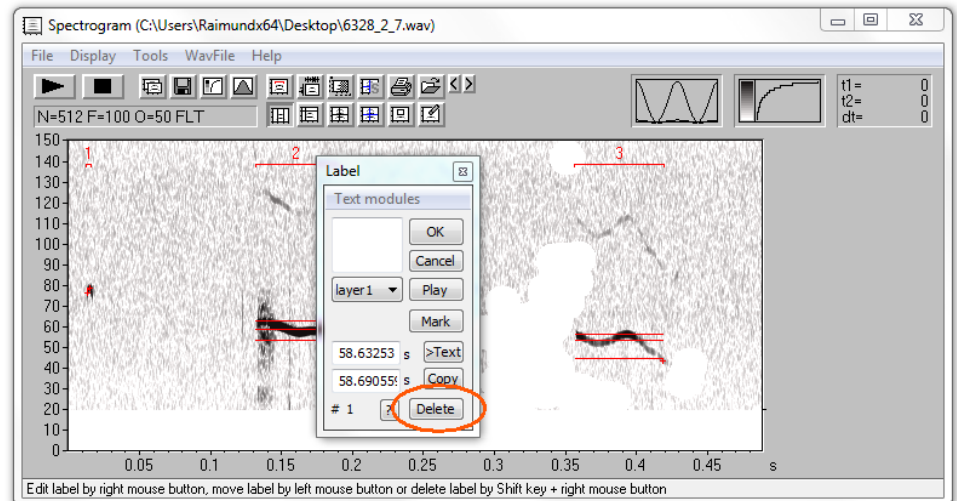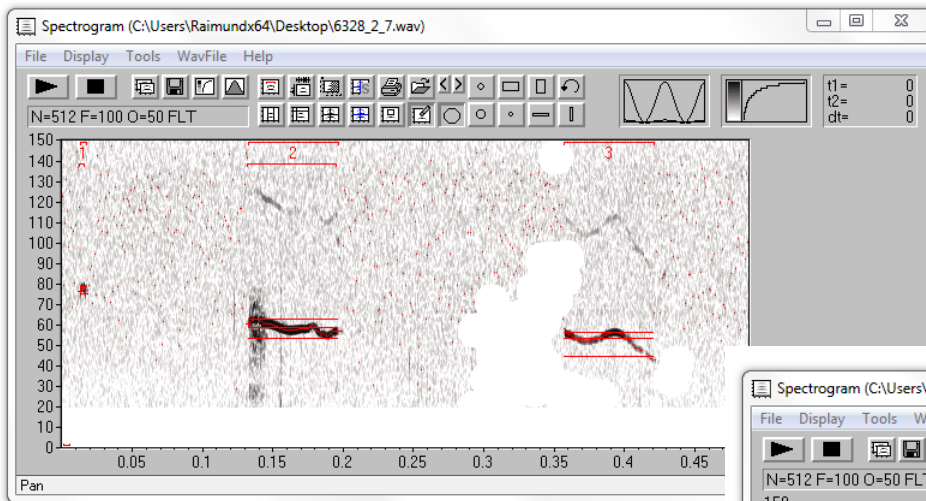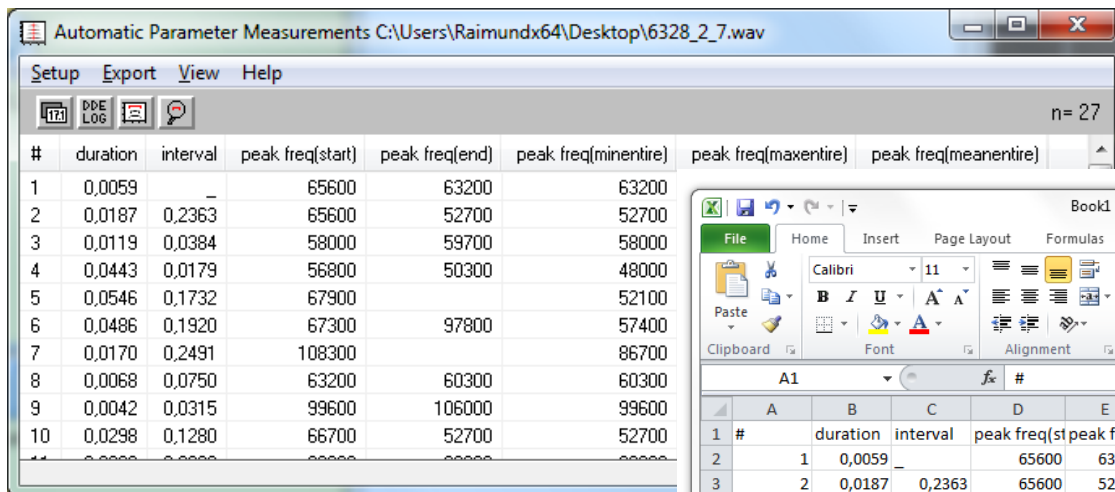- Automatically detecting calls and measuring call parameters

Avisoft-SASLab Pro features for processing USVs

- Manually editing the automatically detected calls

Avisoft-SASLab Pro
features for processing USVs
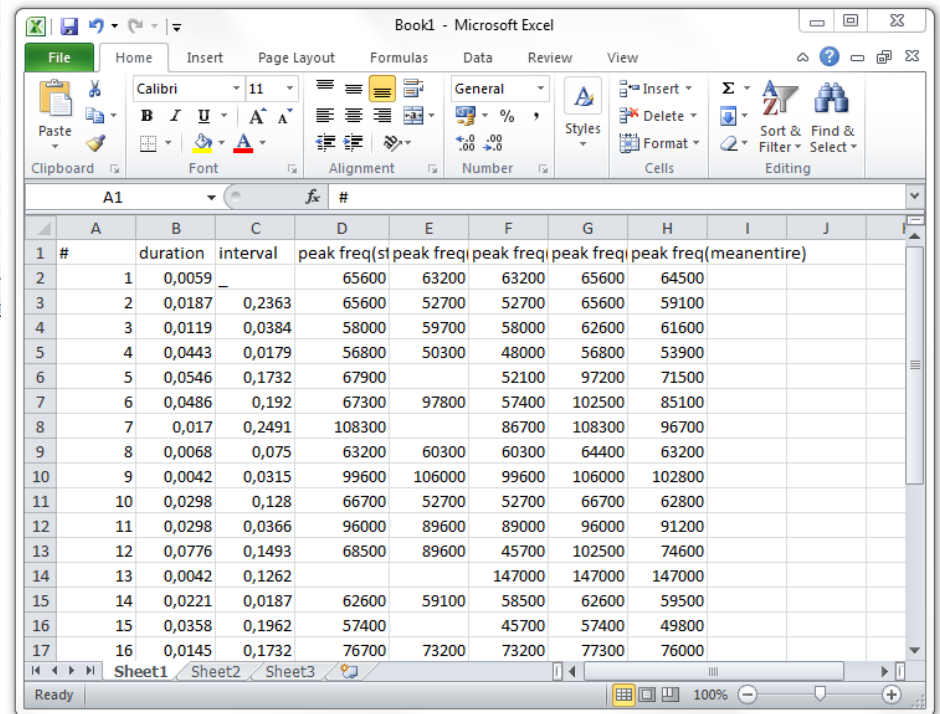
- Exporting measurements to Excel

Avisoft-SASLab Pro additional features

- Editing, Filtering

- Preparing playback files including (re-) synthesis

- Batch processing

- Versatile metadata management (entering labels, bext chunks, datasets with user-defined fields)

- Integrated XML metadatabase functionality

- and much more, see www.avisoft.com for further details (and free updates)

Recent Improvements <small>(version 5.2)</small>

- Faster spectrogram calculation by multithreading on multicore processors

- Optional envelope sidecar files can now significantly accelerate opening large sound files (these .env sidecar files can also be created in a batch process in advance)
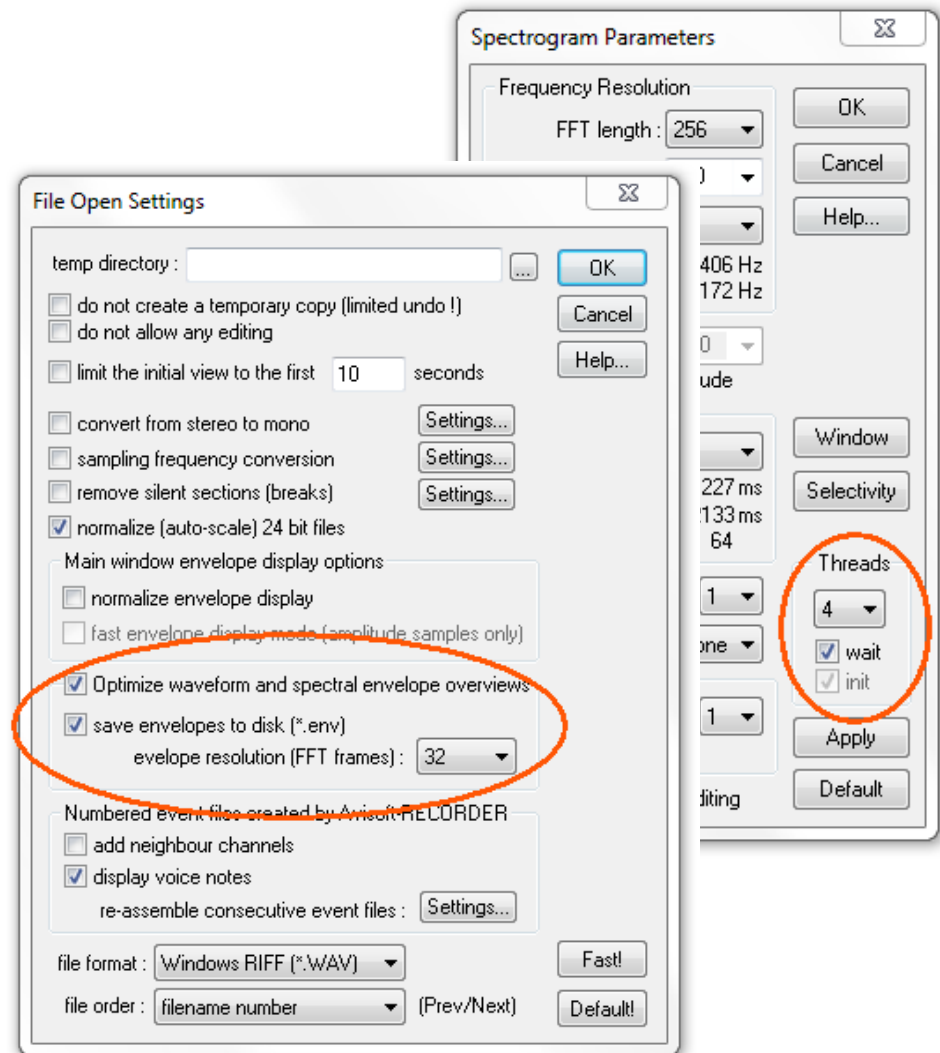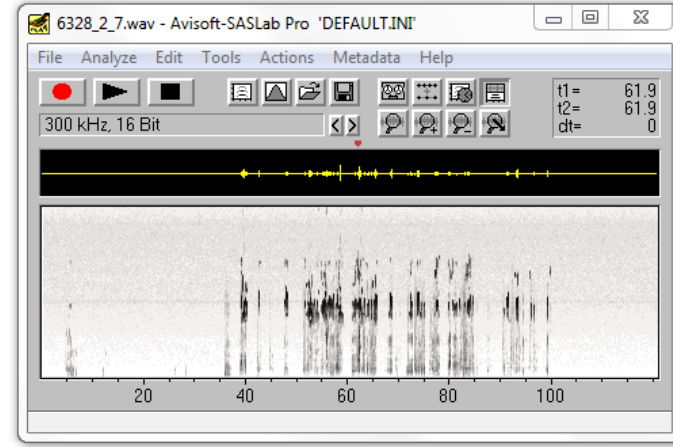
Recent Improvements (version 5.2)

- The new spectrogram envelope functionality on the main window provides an improved and more detailed overview display of large soundfiles (short calls will no longer be hidden)
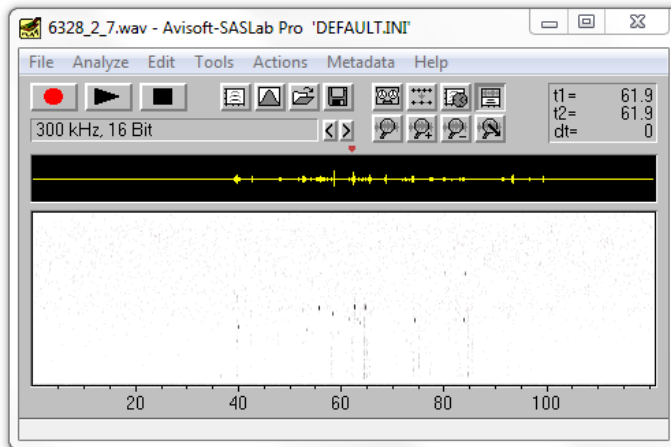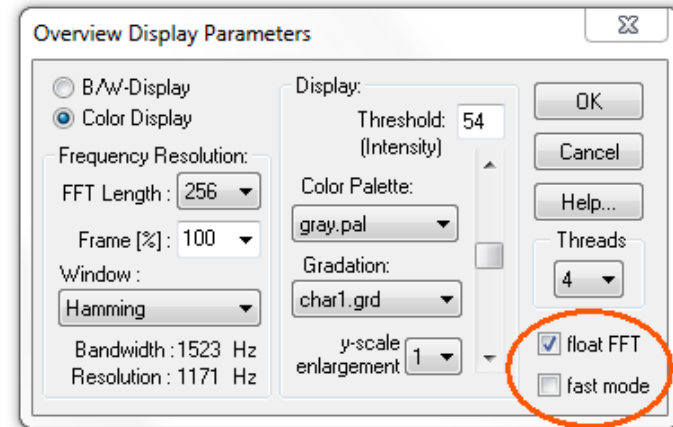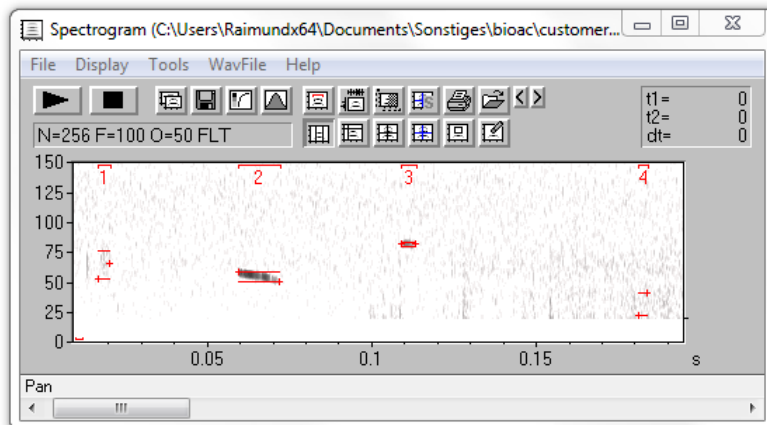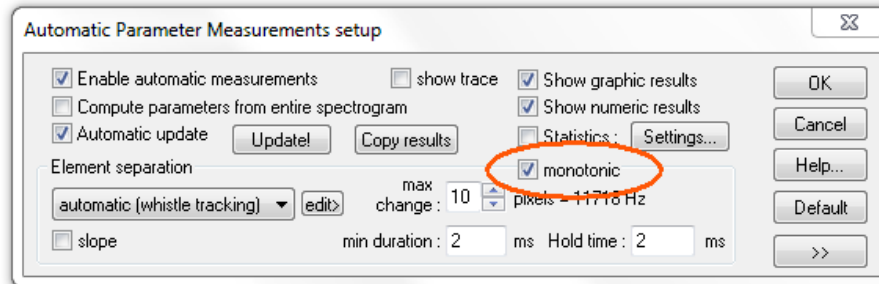

until recently

new envelope display mode

Recent Improvements (version 5.2)

- The further improved Whistle Tracking algorithm can better detect short and rapidly frequency-modulated vocalizations while maintaing its (potential) ability of rejecting bedding noise (the „min duration" setting can now be further reduced and the „max change" setting can be further inreased than before)
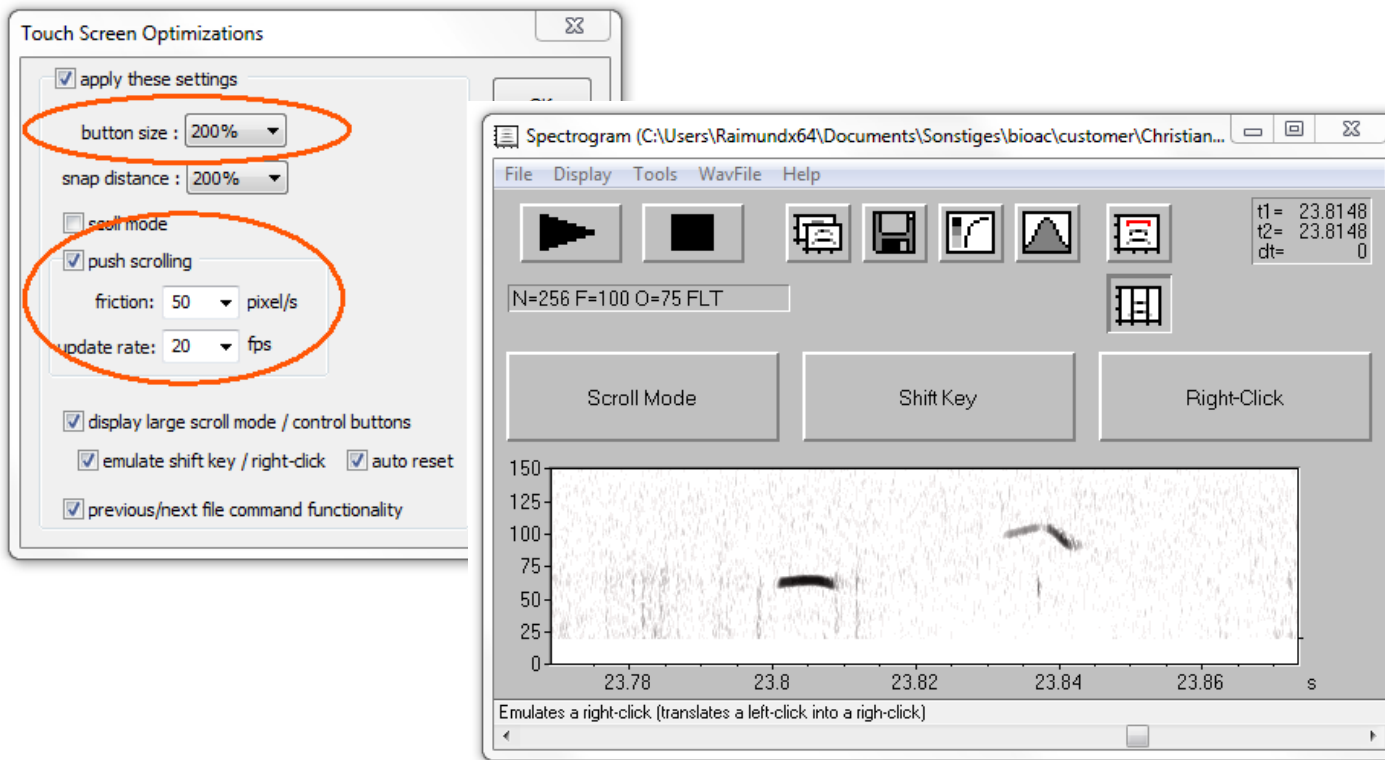

until recently
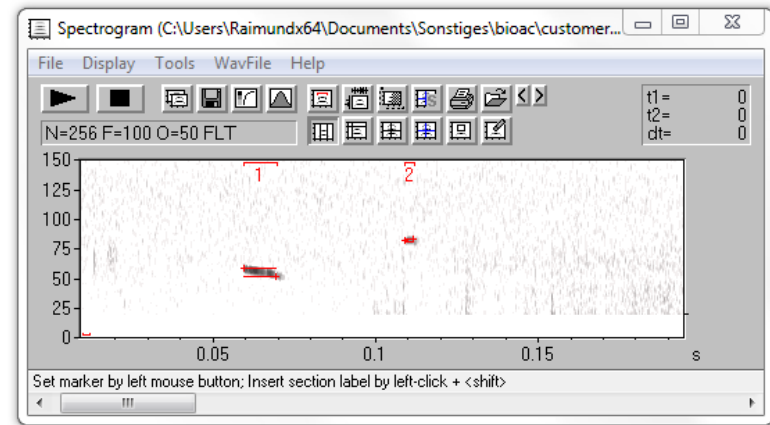
with the new *monotonic* option activated

Recent Improvements (version 5.2)

- Touch Screen GUI optimizations for improved usability on tablet PC's

  (larger buttons, smooth push scrolling, shift key and right-click emulation)

… this can perhaps enable USV processing on the couch or in bed ;-)