Geographic variation in song of aquatic warbler

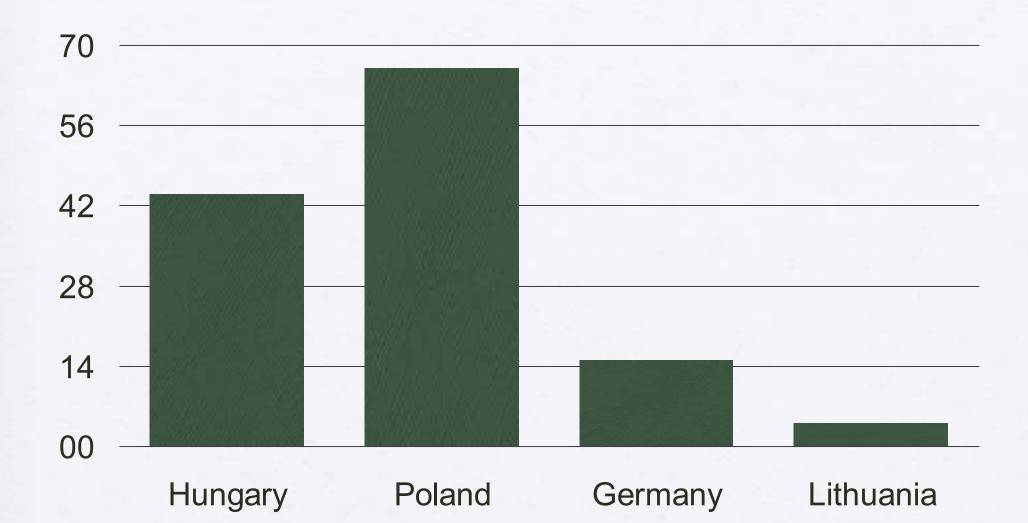
Report on song analysis progress



Tomasz Osiejuk

(n=132)

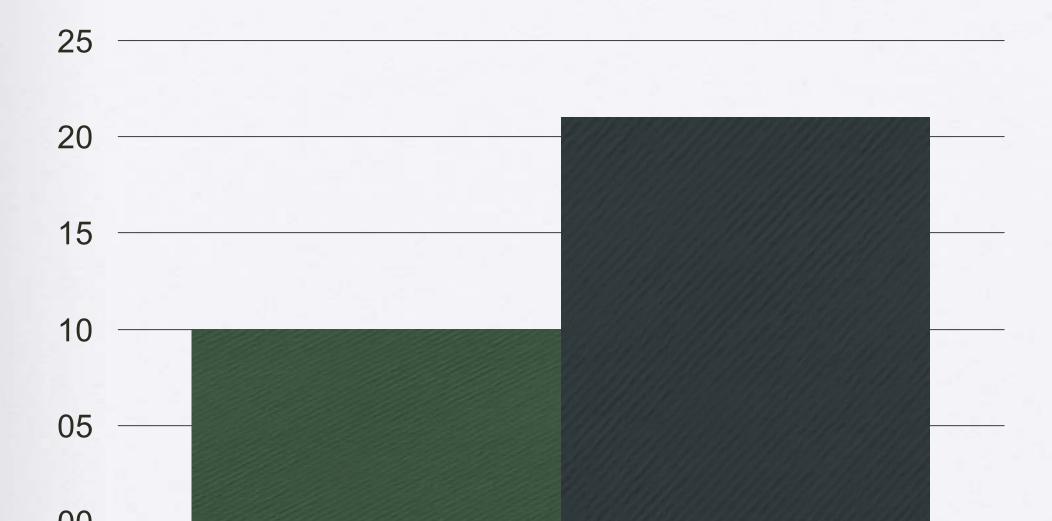
No of recordings



Recordings from Biebrza

(from prof. A. Dyrcz)

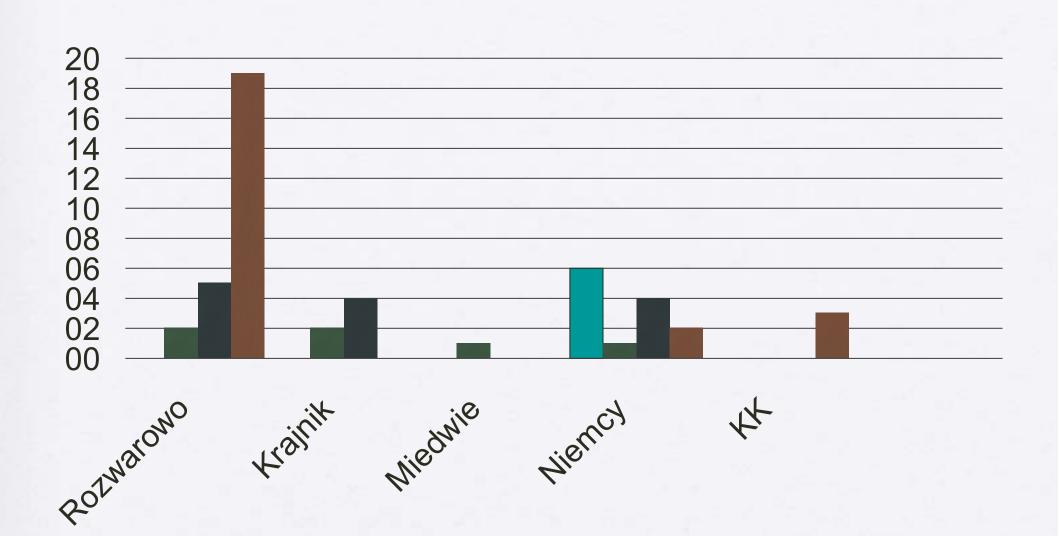




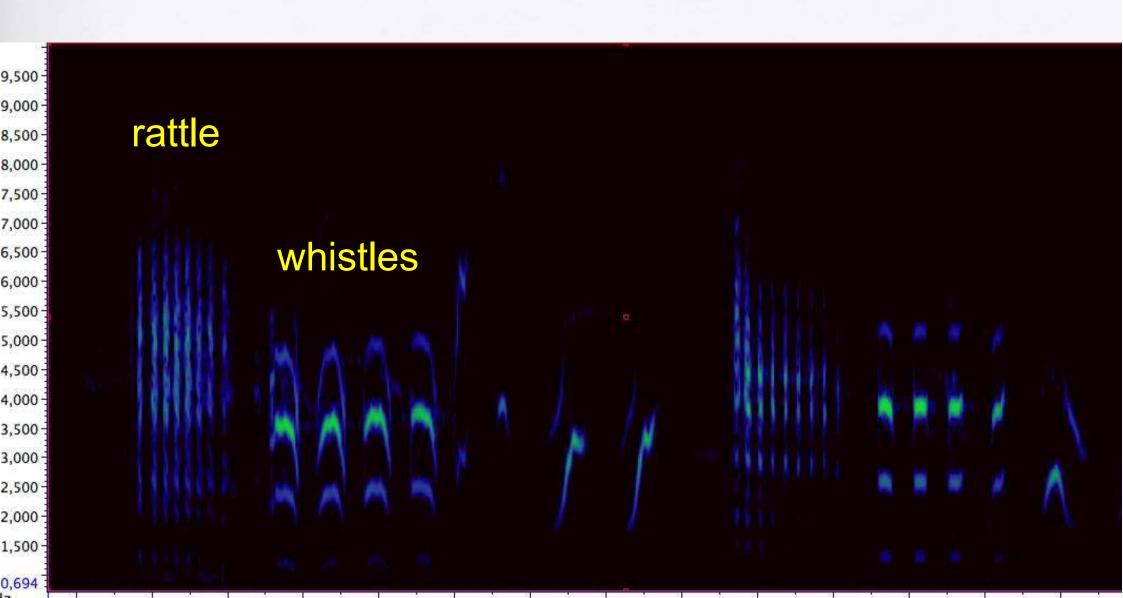
Recordings non Pomerama

(from F. Tanneberger)





and whistles



Aims of song analysis

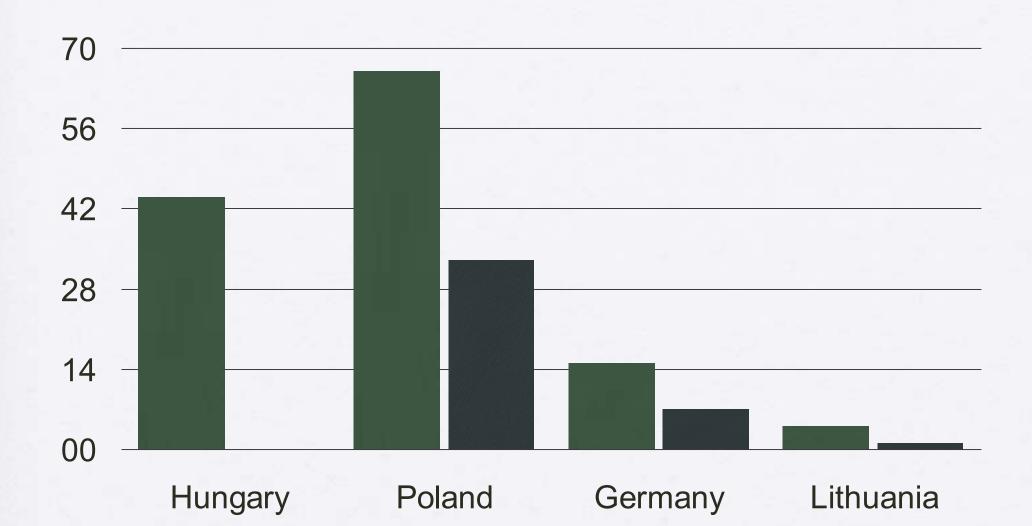
- Description of all song units (including both tonal whistles and rattles)
- Preparation of catalogue of whistles (repertoire) and catagorization of rattles (based on rythm and energy distribution within rattles)
- Estimation of repertoire size for males/populations
- Comparison of whistles/rattles sharing within and between populations

Methods applied

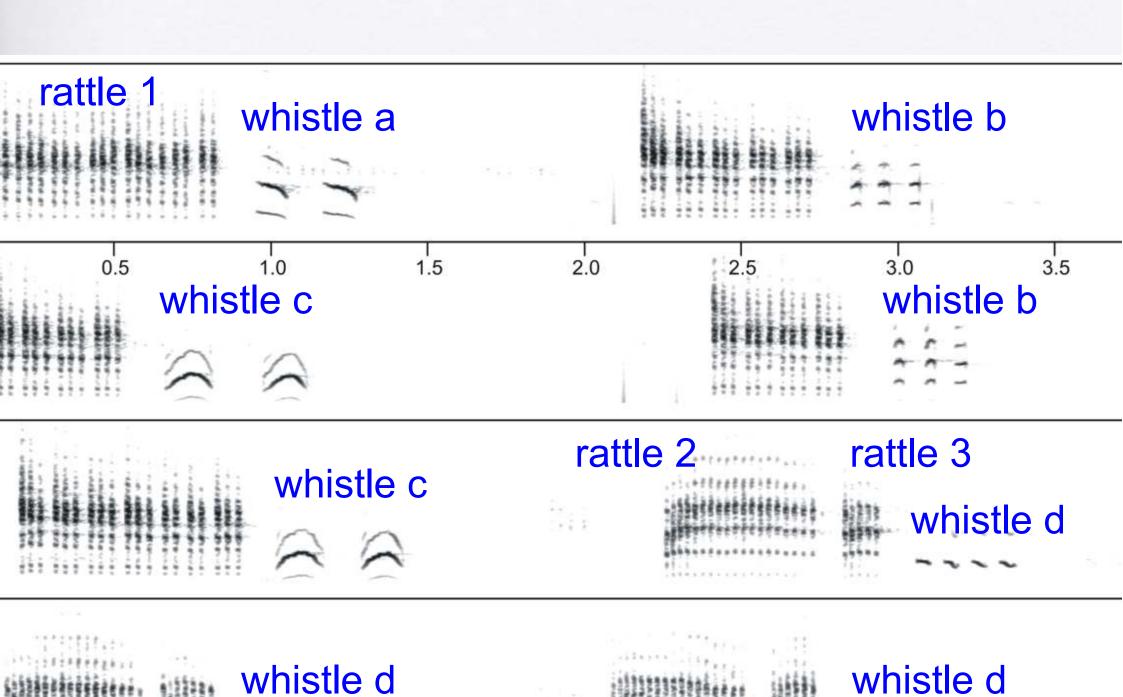
- Visual inspection of sonograms in Raven with selection of song whistles and rattles (Cornel Lab of Ornithology)
- Automatic cut of selected whistles/rattles and comparison with cross-correlation function (Avisoft SASLab Pro or XBAT)
- Estimation of repertoire size for males/populations
- Comparison of whistles/rattles sharing within and between populations

now

■ No of recordings ■ Recordings analysed

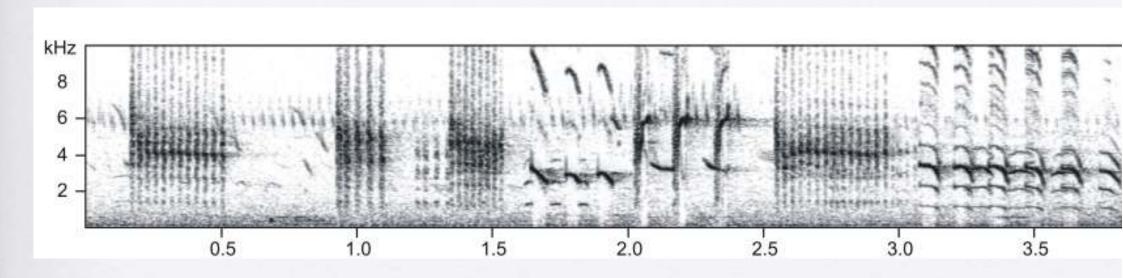


classified and saved for further comparisons



i i obicii o with analysis

- variable quality of recordings it's impossible to compare automaticaly poor and good quality sound samples
- many short recordings this may affect estimation of repertoire size and repertoire sharing



An example of poor quality recording from Biebrza '93