

# Techniques 2004

(includes publications since the last list and some that were not included in the last list)

Compiled by P. Hansen

Baker, M. C. & Logue, D. M. (2003). Population differentiation in a complex bird sound: A comparison of three bioacoustical analysis procedures. *Ethology*, **109**, 223-242.

Barlow, J. & Cameron, G. A. (2003). Field experiments show that acoustic pingers reduce marine mammal bycatch in the California drift gill net fishery. *Mar. Mamm. Sci.*, **19**, 265-283.

Bee, M. A. (2004). Sound ruler acoustical analysis: A free, open code, multi-platform sound analysis and graphing package. *Bioacoustics*, **14**, 171-178.

Chappell, O., Leaper, R. & Gordon, J. (1996). Development and performance of an automated harbour porpoise click detector. *Rep. Int. Whal. Commn.*, **46**, 587-594.

Chesmore, D. (2004). Automated bioacoustic identification of species. *An. Acad. Bras. Cienc.*, **76**, 436-440.

Coombs, R. F. & Barr, R. (2004). Acoustic remote sensing of swimbladder orientation and species mix in the oreo population of the Chatham Rise. *J. Acoust. Soc. Am.*, **115**, 1516-1524.

Darden, S. K., Pedersen, S. B. & Dabelsteen, T. (2003). Methods of frequency analysis of a complex mammalian vocalisation. *Bioacoustics*, **13**, 247-263.

Diefenbach, D. R., Brauning, D. W. & Mattice, J. A. (2003). Variability in grassland bird counts related to observer differences and species detection rates. *Auk*, **120**, 1168-1179.

Farnsworth, A., Gauthreaux, S. A., Jr. & van Blaricom, D. (2004). A comparison of nocturnal call counts of migrating birds and reflectivity measurements on Doppler radar. *J. Avian Biol.*, **35**, 365-369.

Francis, D. T. I. & Foote, K. G. (2003). Depth-dependent target strengths of gadoids by the boundary-element method. *J. Acoust. Soc. Am.*, **114**, 3136-3146.

Gillespie, D. & Chappell, O. (2002). An automatic system for detecting and classifying the vocalisations of harbour porpoises. *Bioacoustics*, **13**, 37-61.

Greenberg, R. (2003). The use of nest departure calls for surveying swamp sparrows. *J. Field Ornithol.*, **74**, 12-16.

Greene, C. R., Jr., McLennan, M. W., Norman, R. G., McDonald, T. L., Jakubczak, R. S. & Richardson, W. J. (2004). Directional frequency and recording (DIFAR) sensors in seafloor recorders to locate calling bowhead whales during their fall migration. *J. Acoust. Soc. Am.*, **116**, 799-813.

Hammond, T. J., Bailey, W. J. & Hammond, G. R. (2003). An automatic acoustic response system for behavioural studies of duetting insects. *Bioacoustics*, **14**, 3-14.

Helweg, D. A. (2002). Automatic detection and species identification of blue and fin whale calls. *Bioacoustics*, **13**, 96.

Hirtum, A. Van, Chedad, A., Aerts, J.-M., Berckmans, D., Gustin, P. & Moreaux, B. (2002). On-line cough recogniser system. *Bioacoustics*, **13**, 78.

Jimenez, I., Londono, G. A. & Cadena, C. D. (2003). Efficiency, bias, and consistency of visual and aural surveys of curassows (Cracidae) in tropical forests. *J. Field Ornithol.*, **74**, 210-216.

Laurinolli, M. H., Hay, A. E., Desharnais, F. & Taggart, C. T. (2003). Localization of North Atlantic right whale sounds in the Bay of Fundy using a sonobuoy array. *Mar. Mamm. Sci.*, **19**, 709-723.

- Lecoq, M. & Catry, P. (2003). Diurnal tape-luring of wintering chiffchaffs results in samples with biased sex ratios. *J. Field Ornithol.*, **74**, 230-232.
- Lemasson, A., Richard, J.-P. & Hausberger, M. (2004). A new methodological approach to context analysis of call production. *Bioacoustics*, **14**, 111-125.
- Mallekh, R., Lagardere, J. P., Eneau, J. P. & Cloutour, C. (2003). An acoustic detector of turbot feeding activity. *Aquaculture*, **221**, 481-489.
- McCallum, A. (2002). Modelling interspecific differences in chickadee notes with a multiplicative AM model. *Bioacoustics*, **13**, 88-89.
- Moshou, D., Chedad, A., Van Hirtum, A., Aerts, J.-M., Berckmans, D. & Ramon, H. (2002). Cough neural recognition system. *Bioacoustics*, **13**, 98-99.
- Mundry, R. & Sommer, C. (2004). Tonal vocalizations in a noisy environment: an approach to their semi-automatic analysis and examples of its application. *An. Acad. Bras. Cienc.*, **76**, 284-288.
- Nebel, S. & McCaffery, B. J. (2003). Vocalization activity of breeding shorebirds: documentation of its seasonal decline and applications for breeding bird surveys. *Can. J. Zool.*, **81**, 1702-1708.
- Oba, T. (2004). Application of automated bioacoustic identification in environmental education and assessment. *An. Acad. Bras. Cienc.*, **76**, 446-451.
- Ohya, E. (2004). Identification of *Tibicen* cicada species by a principal components analysis of their songs. *An. Acad. Bras. Cienc.*, **76**, 442-444.
- Pavan, G., Manghi, M., Priano, M. & Fossati, C. (2002). Sound analysis software and hardware for applications in bioacoustics. *Bioacoustics*, **13**, 101.
- Piqueira, J. R. C. (2004). Bits and q-bits as versatility measures. *An. Acad. Bras. Cienc.*, **76**, 425-428.
- Placer, J. & Slobodchikoff, C. N. (2004). A method for identifying sounds used in the classification of alarm calls. *Behav. Processes*, **67**, 87-98.
- Rogers, A. C., Ferguson, J. E., Harrington, H. M., McDowell, S., Miller, A. & Panagos, J. (2004). Use of stereo duet playback to investigate traditional duet playback methods and mechanisms of cooperative territorial defence in magpie-larks. *Behaviour*, **141**, 741-753.
- Rosny, J. de & Roux, P. (2004). Reply to the comment on "Multiple scattering in a reflecting cavity: Application to fish scattering" (*J. Acoust. Soc. Am.*, **113**, 2978-2979, 2003). *J. Acoust. Soc. Am.*, **115**, 31-34.
- Russ, J. (2003). Avisoft Recorder (version 2.7). *Bioacoustics*, **13**, 323-330.
- Schwenker, F., Dietrich, C., Kestler, H. A., Riede, K. & Palm, G. (2003). Radial basis function neural networks and temporal fusion for the classification of bioacoustic time series. *Neurocomputing*, **51**, 265-275.
- Specht, R. (2002). A versatile PC-based multichannel triggering hard-disk recording system for long-term monitoring of animal sounds. *Bioacoustics*, **13**, 96-97.
- Specht, R. (2004). Compact and user-friendly ultrasound acquisition systems optimized for field recording. *An. Acad. Bras. Cienc.*, **76**, 452-454.
- Tchernichovski, O. & Mitra, P. P. (2002). Towards quantification of vocal imitation in the zebra finch. *J. Comp. Physiol., A.*, **188**, 867-878.
- Terry, A. M. R. & McGregor, P. K. (2002). Census and monitoring based on individually identifiable vocalizations: the role of neural networks. *Anim. Conserv.*, **5**, 103-111.

Turcotte, Y. & Desrochers, A. (2002). Playbacks of mobbing calls of black-capped chickadees help estimate the abundance of forest birds in winter. *J. Field Ornithol.*, **73**, 303-307.

Wahlberg, M., Tougaard, J. & Møhl, B. (2003). Localising bitterns *Botaurus stellaris* with an array of non-linked microphones. *Bioacoustics*, **13**, 233-245.