

# Quantitative phyto- and microzooplankton analysis (AWI/BAH)

Phytoplankton and microzooplankton abundance analysis was performed after Utermöhl (1958).

Biovolume and biosurface analysis was conducted according to Hillebrand et al. (1999). Geometric models were applied to all species/groups based on averages of actual measurements (n=20) in each sample.

Biomass as carbon analysis was achieved by the conversion of the calculated biovolume data using factors suggested by Eppley et al. (1970).

## Literature

- Utermöhl, H. (1958): Zur Vervollkommnung der quantitativen Phytoplanktonmethodik. *Mitteilungen der Internationalen Vereinigung für Theoretische und Angewandte Limnologie*, **9**, 1-38.
- Hillebrand, H., Dürselen, C.D., Kirschtel, D., Pollinger, U, T. Zahary (1999): Biovolume calculation for pelagic and benthic microalgae. *Journal of Phycology*, **35(2)**, 403-424, doi:10.1046/j.1529-8817.1999.3520403.x
- Eppley, R. H., Reid, F. H. H. and J.D.H. Strickland (1970): Estimates of phytoplankton crop size, growth rate and primary production. In J. D. H. Strickland (ed.): *The ecology of the phytoplankton off La Jolla, California in the period April through September, 1967*, University of California Press, 103 pp.