Cell volumes of marine phytoplankton from globally distributed coastal data sets

Paul J. Harrison a, *, Adriana Zingone b, Michael J. Mickelson c, Sirpa Lehtinen d, Nagappa Ramaiah e, Alexandra C. Kraberg f, Jun Sun g, Abigail McQuatters-Gollop h, Hans Henrik Jakobsen i

a Dept. Earth & Ocean Sciences, University of British Columbia, Vancouver, BC V6T 1Z4, Canada
b Integrative Marine Ecology Dept., Stazione Zoologia Anton Dohrn, Villa Comunale, Italy
c Massachusetts Water Resources Authority, Charlestown, MA 02129, USA
d Marine Research Center, Finnish Environmental Institute (SYKE), 00251 Helsinki, Finland
e CSIR-National Institute of Oceanography, Goa, 403 004 India
f Biologische Anstalt Helgoland, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, 27498 Helgoland, Germany
g College of Marine Science & Engineering, University of Science & Technology, Tianjin, 300457, PR China
h Sir Alister Hardy Foundation for Ocean Science, Plymouth, PL1 2PB, UK
i Bioscience, Roskilde 4000, Aarhus University, Denmark

1. Introduction

There is considerable concern about the long-term changes that are occurring in coastal ecosystems, leading to the development of...