

BIOLOG, AN INDUSTRIAL BIOSTRATIGRAPHIC DATABASE

Jean-Louis VOLAT

Developed at ELF since 1995, BIOLOG houses all biostratigraphic data from oil wells or sections. The data model was mapped against POSC data model (EPICENTRE), in the aim of sharing data between oil companies. The present version runs on UNIX (with networked PCs) and uses ORACLE 7.3. Basically, BIOLOG stores taxa names and frequencies (quantitative or semi-quantitative) related to processed samples. Taxonomy handles two suprageneric levels. Different types of synonymy are faced. Successive studies of the same section may be handled or merged if found convenient. The interpretation may refer to local, user-defined scales. Input is through a specific interface, (spreadsheet format accepted). Output may use any drawing soft (a specific adaptation of WellCAD is used at ELF). More than 1,200 sections are stored in the ELF database, with more than 22,000 taxa names (Foraminifera, Ostracoda, Spores, Pollen, Dinoflagellates, Algae, Nannofossils...). Five chronostratigraphic scales, more than 50 local biozonations, and three paleoenvironmental scales are routinely used.