

## **INTEGRATED DSDP/ODP PALEONTOLOGIC DATABASES**

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The paleontologic data collected by scientists using material from the Deep Sea Drilling Program (DSDP) and the Ocean Drilling Program (ODP) form one of the largest sets of information on the distribution of oceanic microfossils in time and space. Uniform distribution and range charts for major oceanic microfossil groups are available at the GEOMAR section of the Ocean Drilling Stratigraphic Network (ODSN) website ([www.odsn.de](http://www.odsn.de)). The homogenization involves synonymization of the taxa and expression of their abundances according to a standardized numerical format. The distribution charts show all of the occurrences of the fossils that were reported, by sample number and depth in section. The range charts show only the stratigraphic intervals within which the highest and lowest occurrences of the fossils must lie. The range charts are converted to graphic age-depth plots using age calibration of the fossil datums. The age-depth plots show the lowest and highest occurrence datums for species and the uncertainty of the datum's depth in the hole. The datum ages are according to the latest available compilation, but because these differ from older calibrations using older timescales there is also a module that allows the different timescales used over the history of the ocean drilling programs to be compared. Paleobiogeographic distributions can be reconstructed from the databases. The distribution of a taxon or taxa in DSDP/ODP drill sites can be shown as present or absent, and the sites inserted into plate tectonic reconstructions.