

Sedimenti marini profondi e Nannofossili calcarei nello studio delle variazioni climatiche

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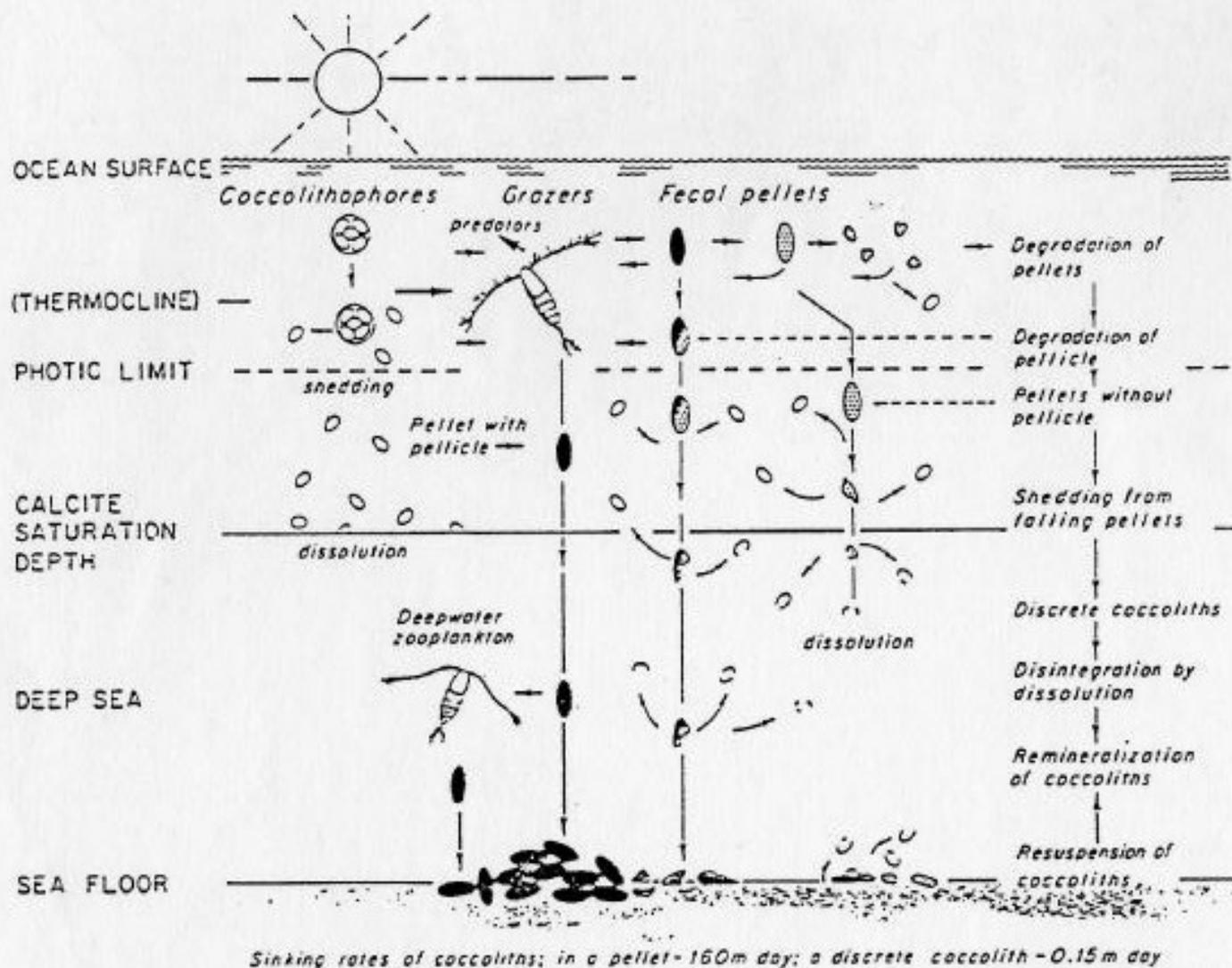


PARTE III:

Nannoplancton e nannofossili calcarei nelle ricostruzioni paleoclimatiche e paleoambientali

OUTLINE

- Nannoplancton e nannofossili calcarei come *proxies* paleoclimatici
- Evoluzione dei nannofossili calcarei e cambiamenti climatico-ambientali



K Figure 14-17 A model of the relationship between the production, transportation, dissolution, and deposition of coccoliths in the open, deep ocean. Scales are not in proportion. (From S. Honjo, *Marine Micropaleontology*, vol. 1, p. 76, 1976)

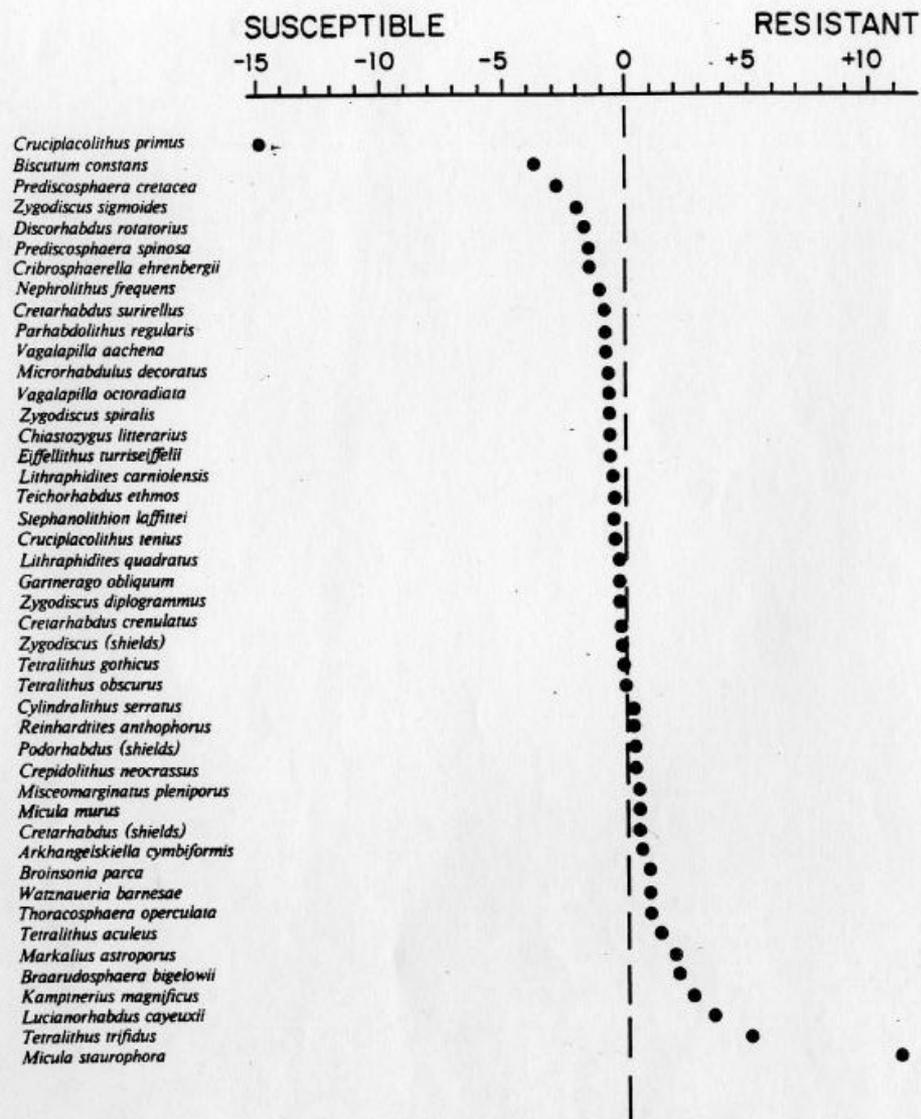


FIG. 4.—Dissolution ranking of Late Cretaceous and earliest Tertiary calcareous nannofossils (from Thierstein, 1980.) Cretaceous Research, vol. 1

McIntyre and A.W.H. Bé (1967) - Modern coccolithophoridae of the Atlantic Ocean. Placoliths and Cytoliths, Deep-Sea Research 14

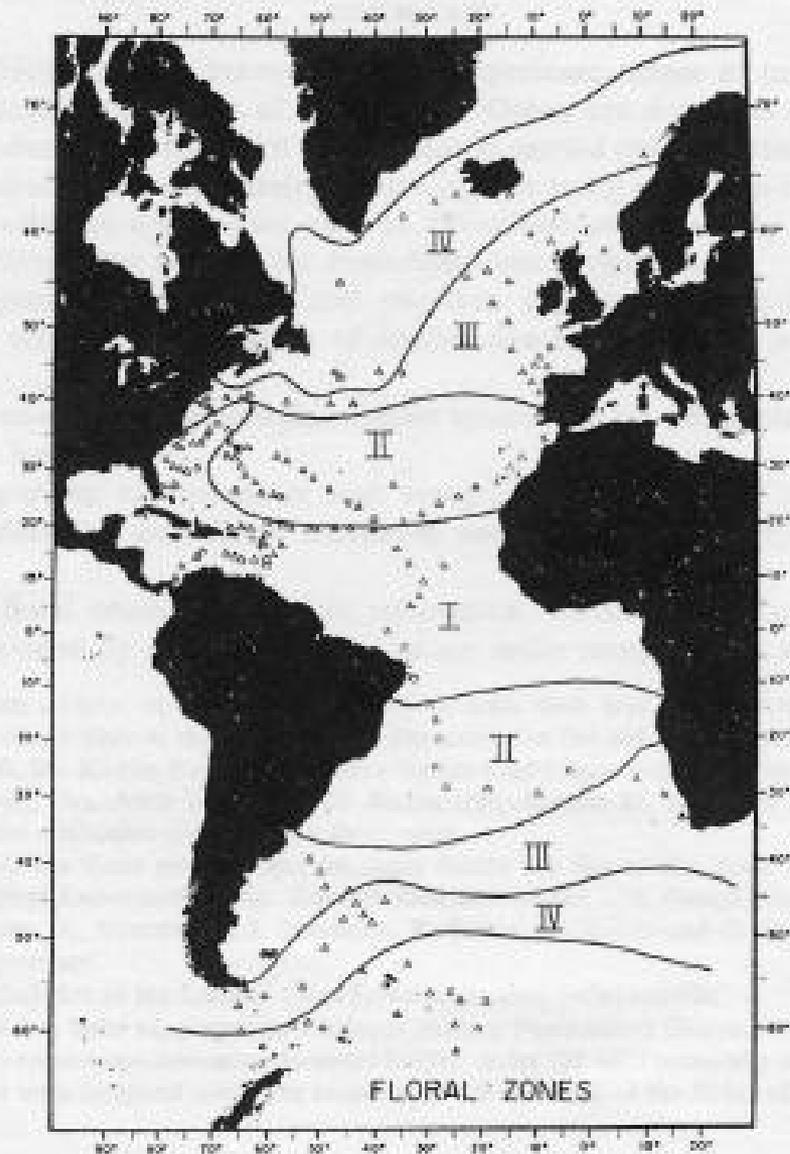
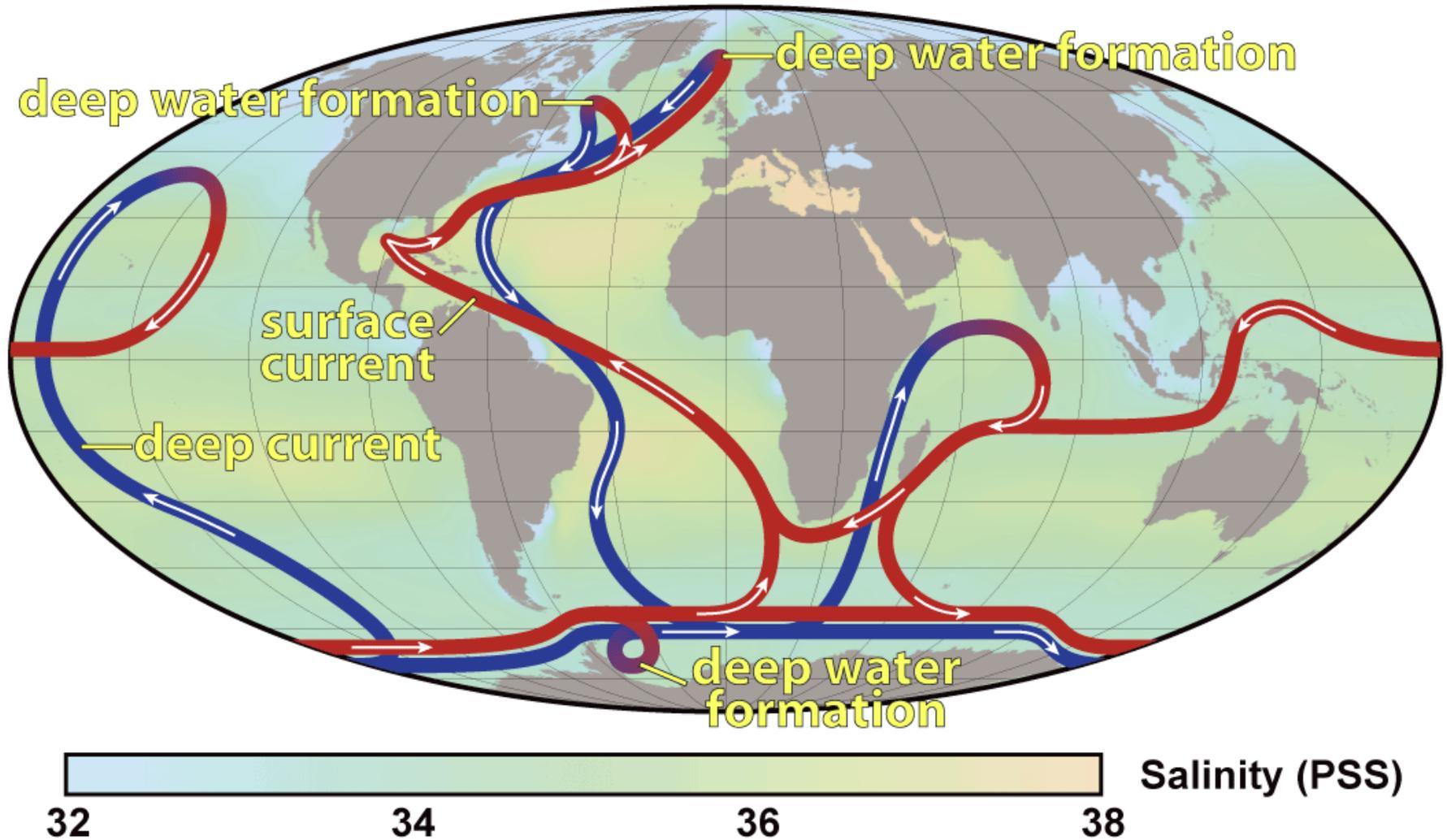
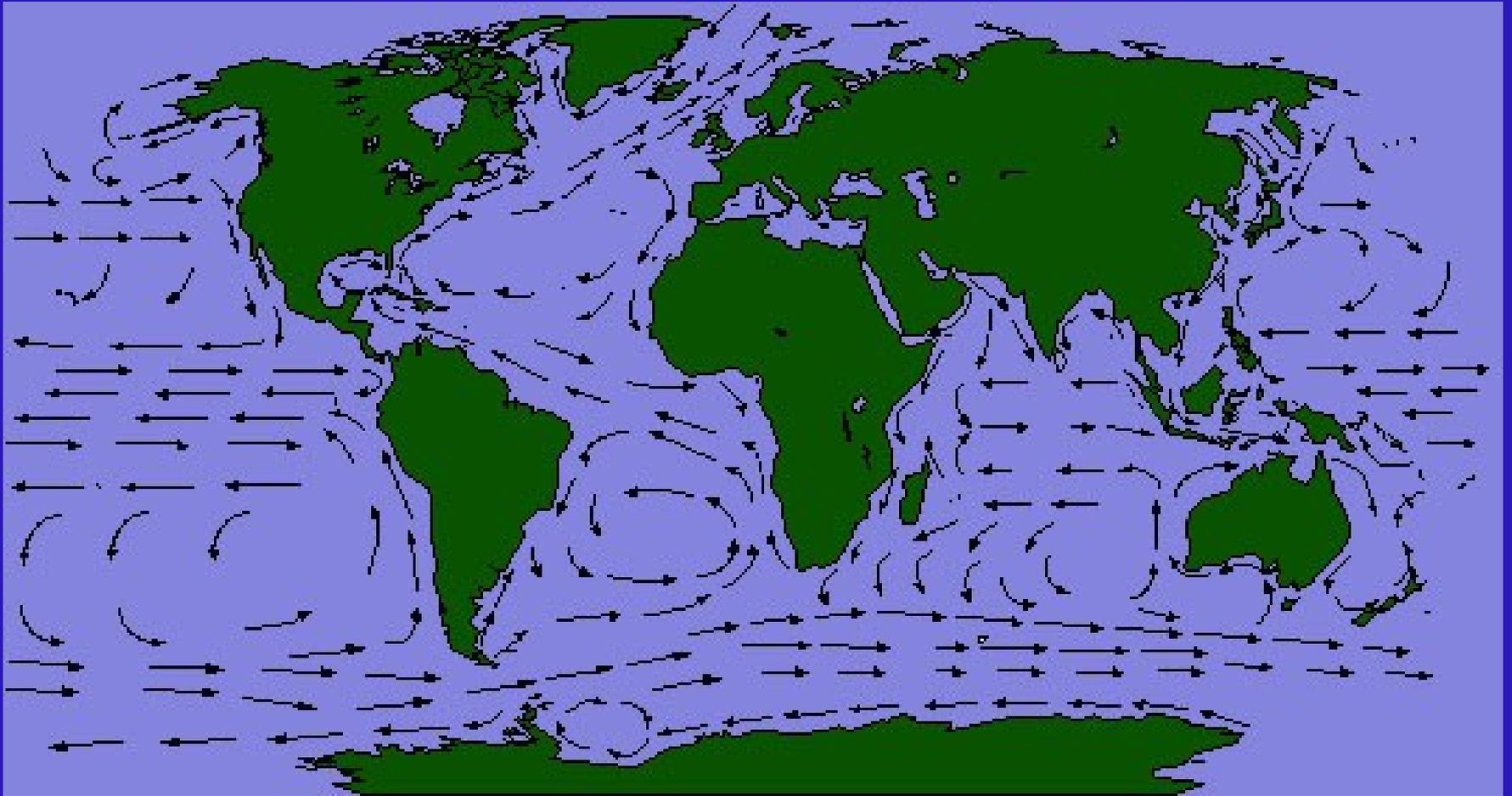


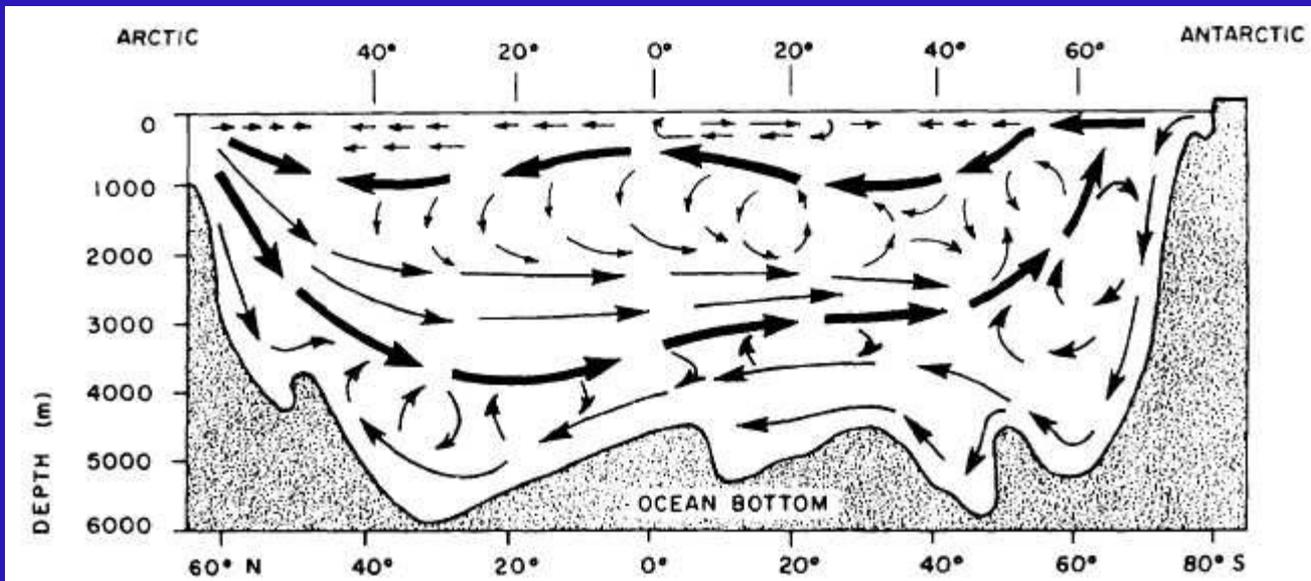
Fig. 17. The coccolithophorid floral zones of the Atlantic Ocean, I tropical, II subtropical, III transitional and IV subarctic-subantarctic.

Thermohaline Circulation

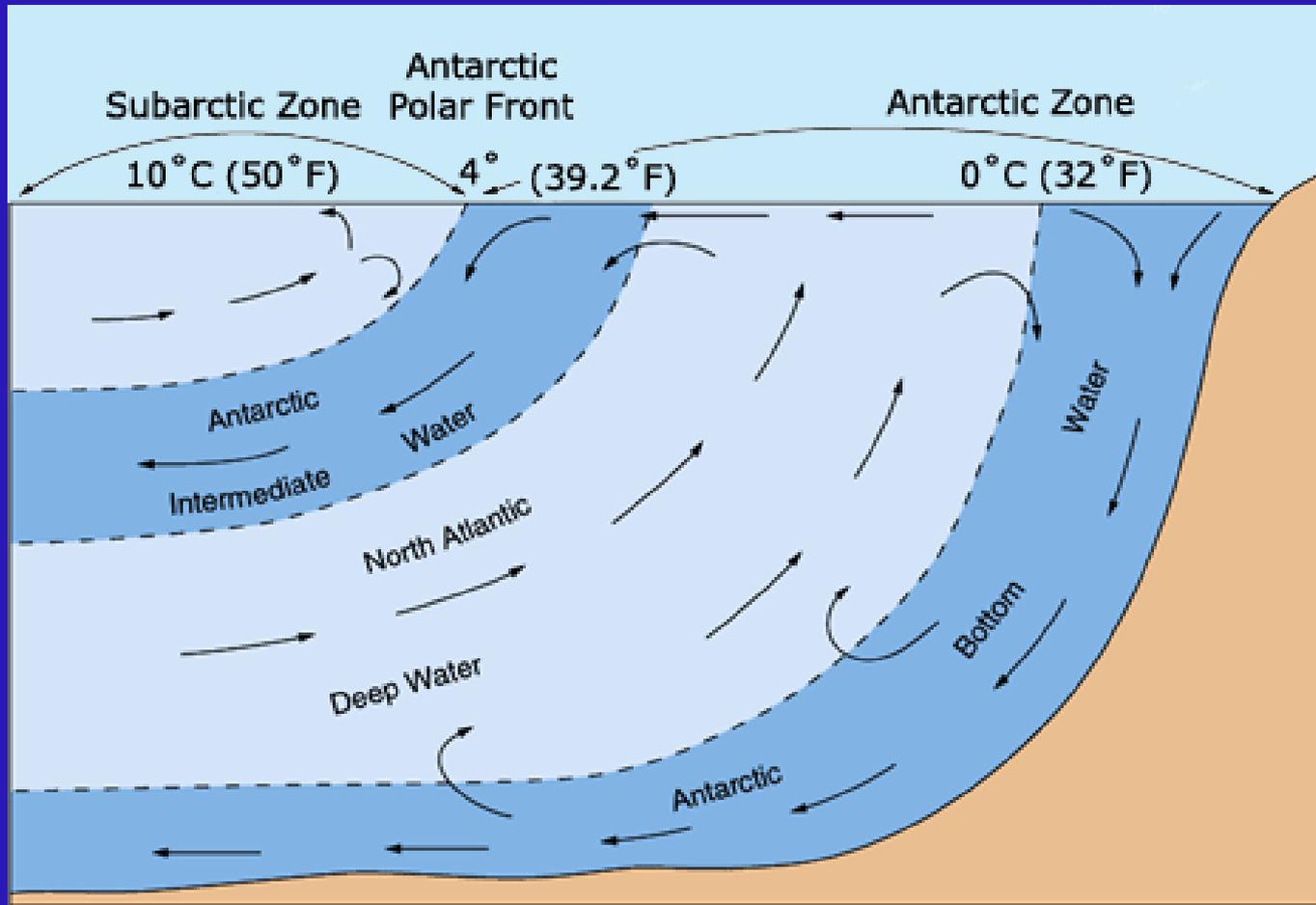




<http://msx4.pha.jhu.edu>



Cross section of the Atlantic Ocean
from <http://www.tpub.com>



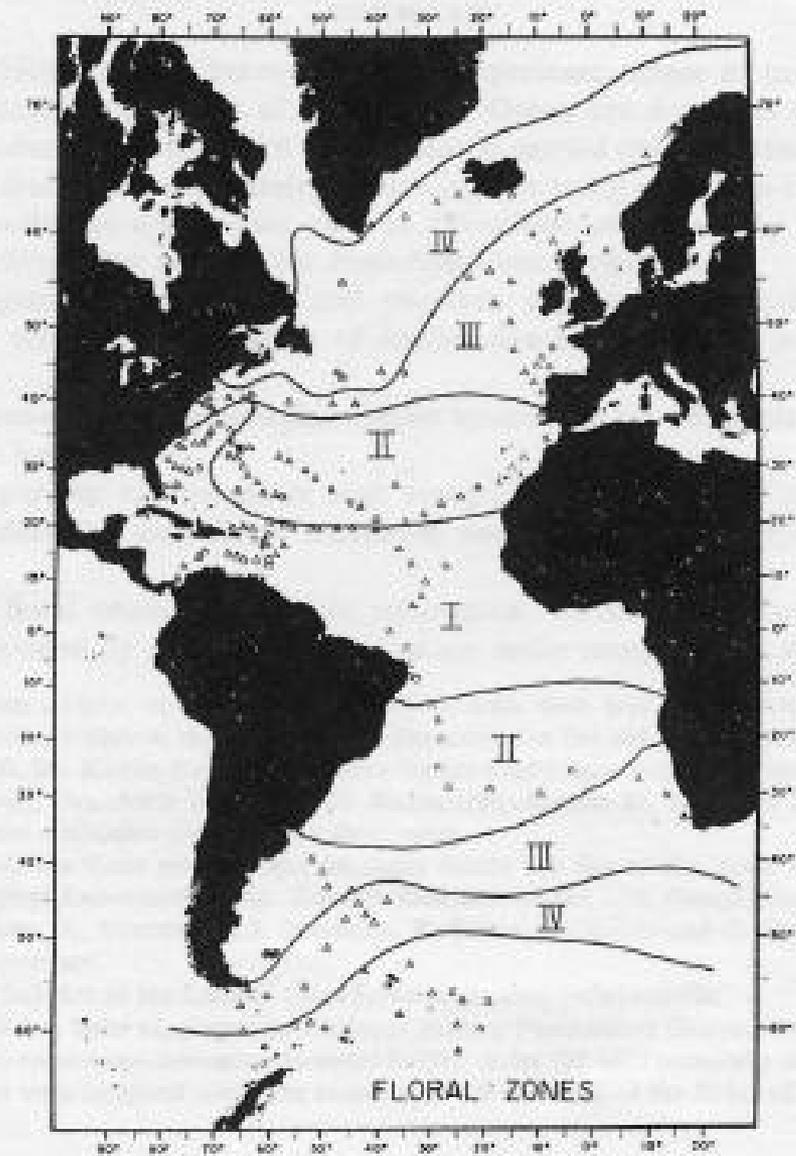


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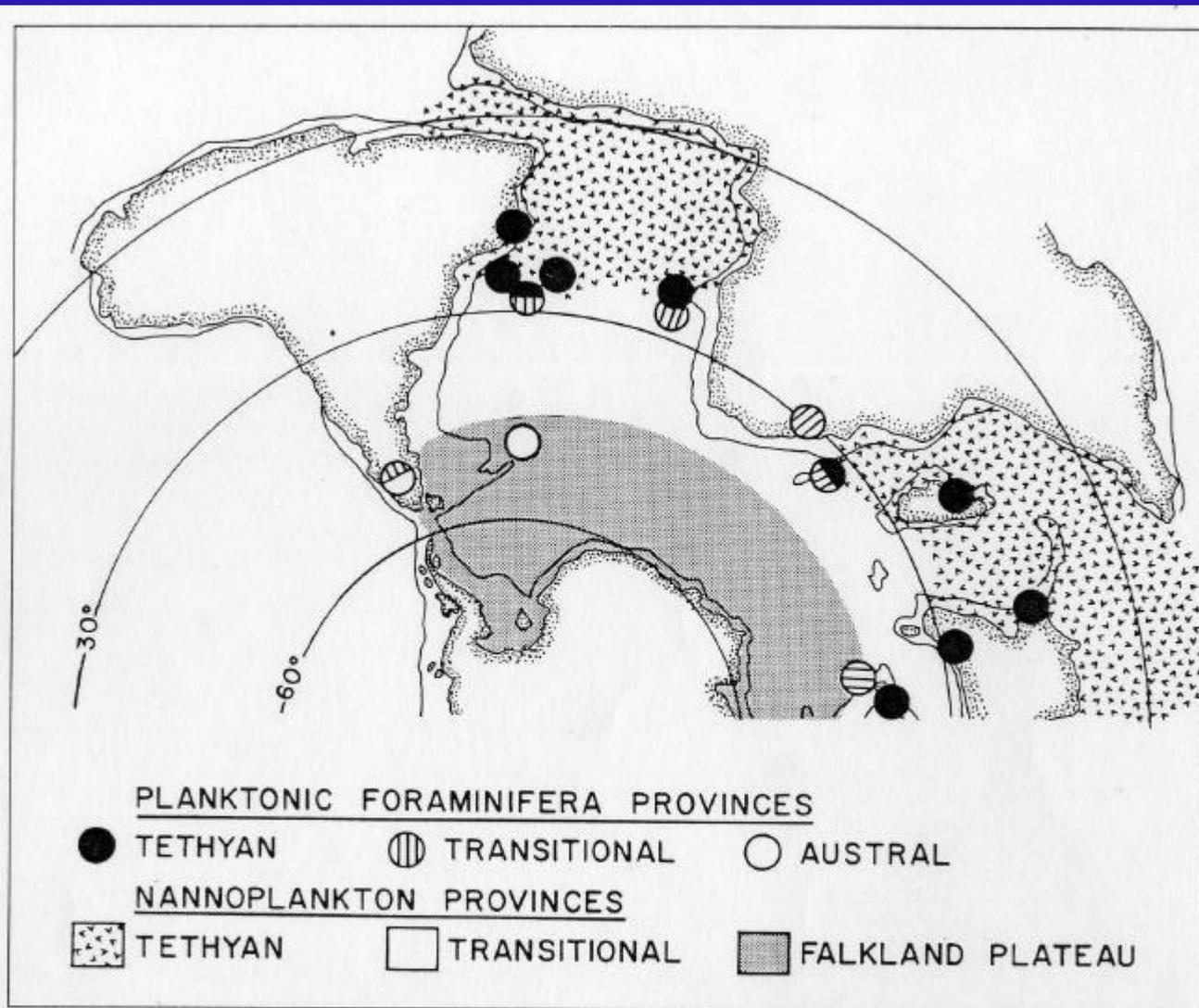
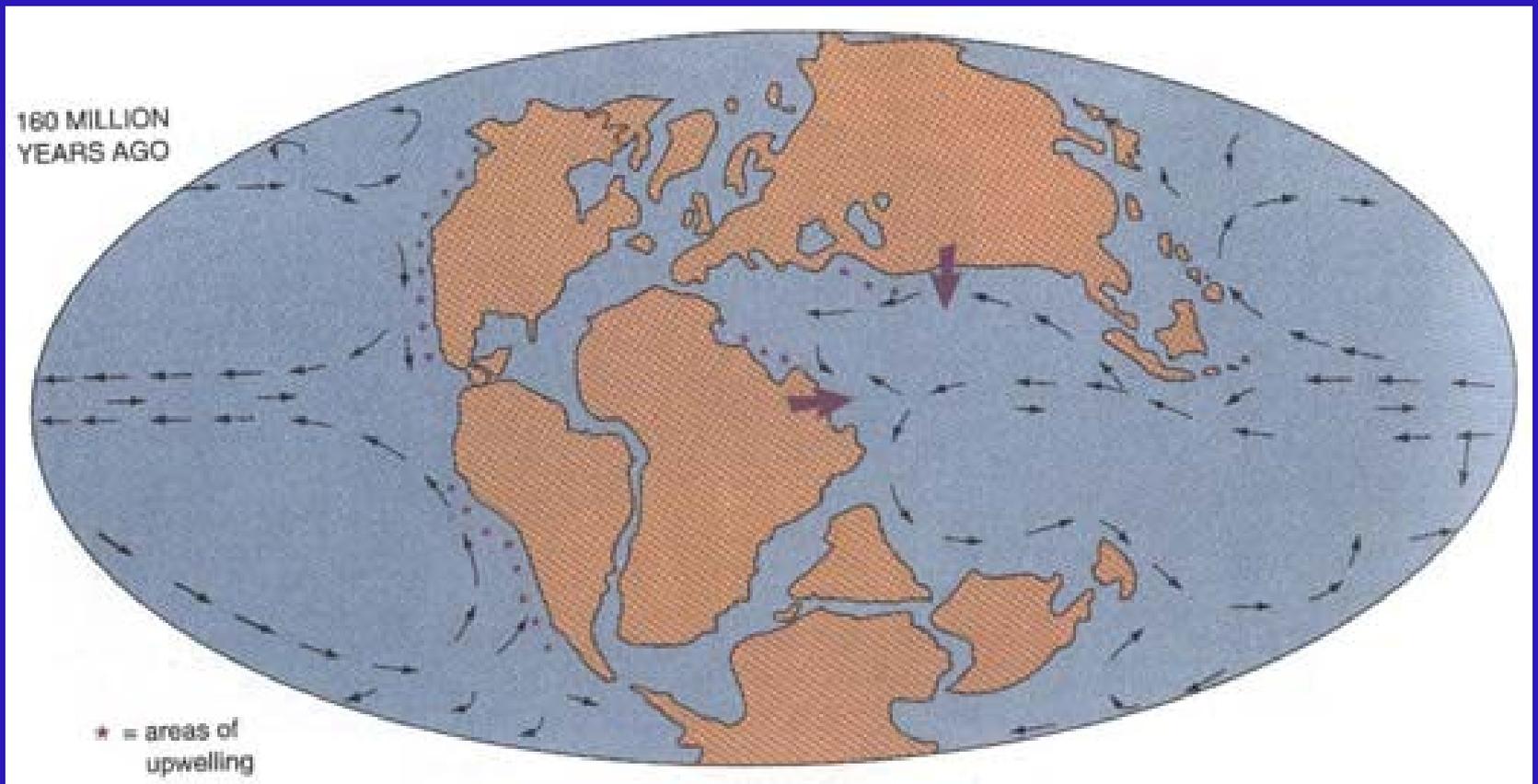
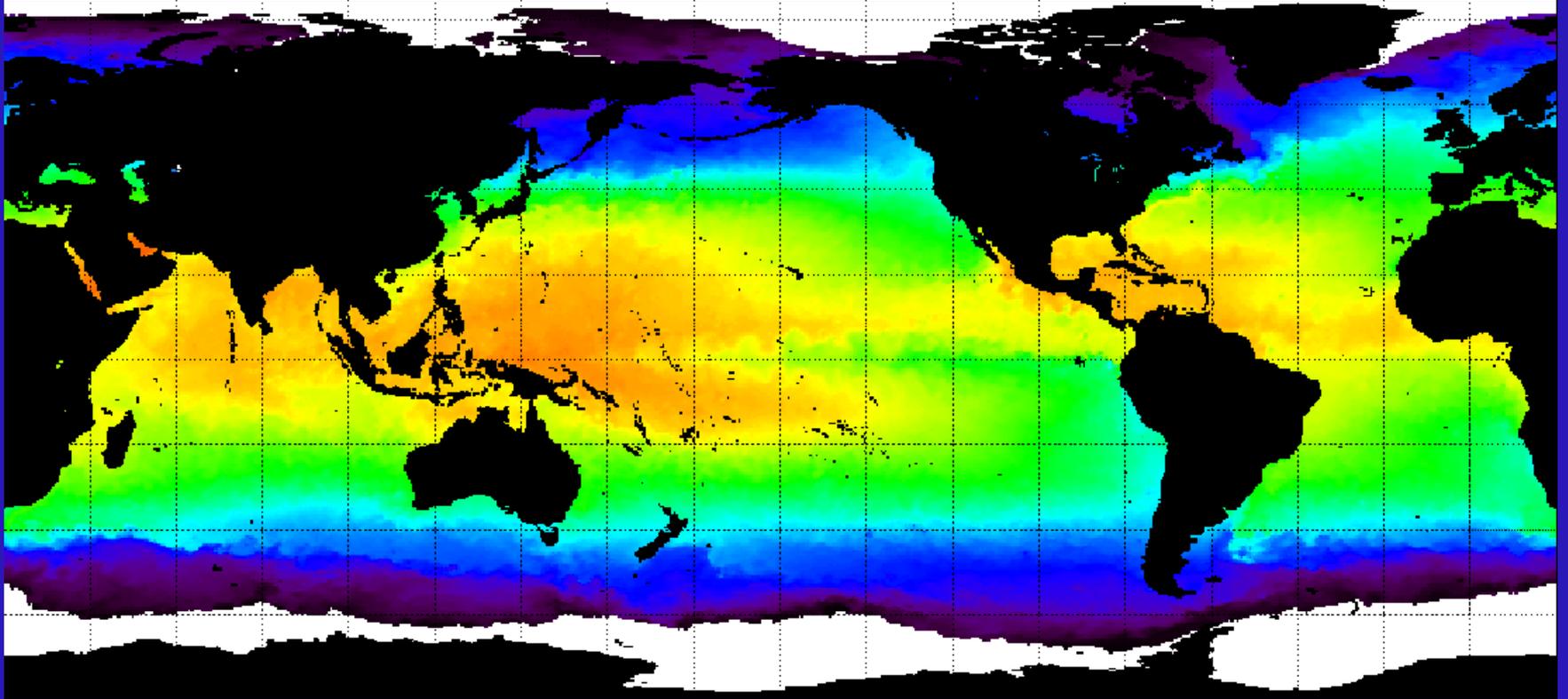


Figure 8. Areal distribution of planktonic foraminifera and calcareous nannoplankton provinces during the late Campanian and early Maestrichtian. Paleogeographic reconstruction and foraminifera data is from Sliter (1977).

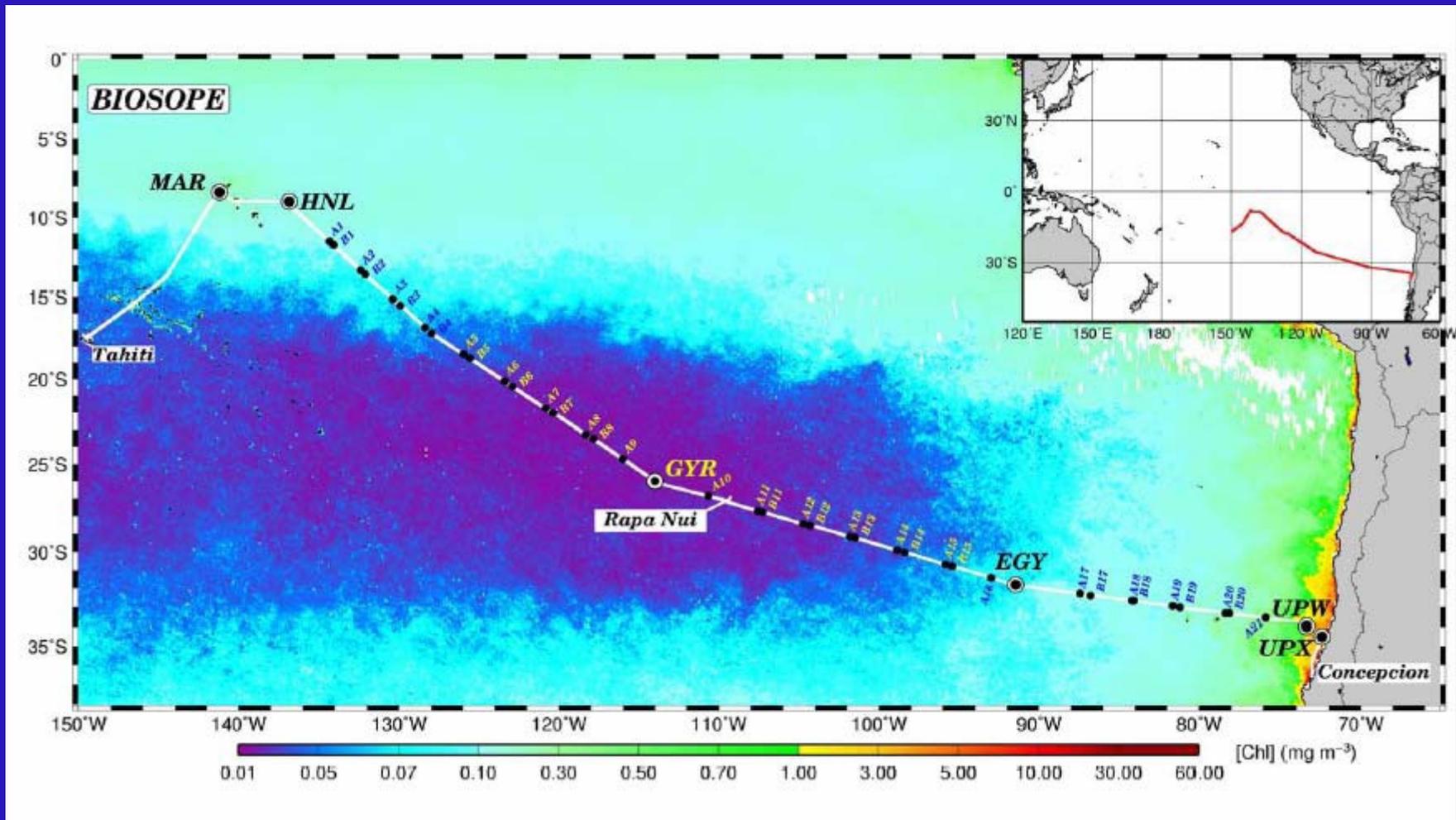


Giurassico superiore ca. 160 milioni di anni fa



Temperatura superficiale delle acque

<http://www.osdpd.noaa.gov>



Concentrazione di clorofilla



Bloom di coccolitoforidi lungo le coste della Cornovaglia

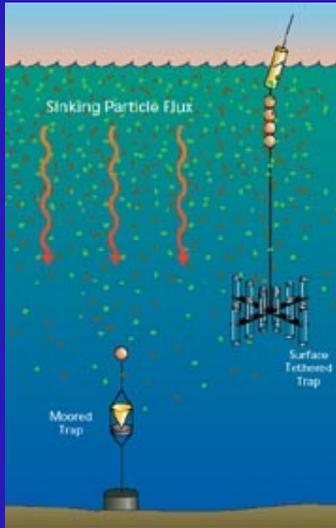
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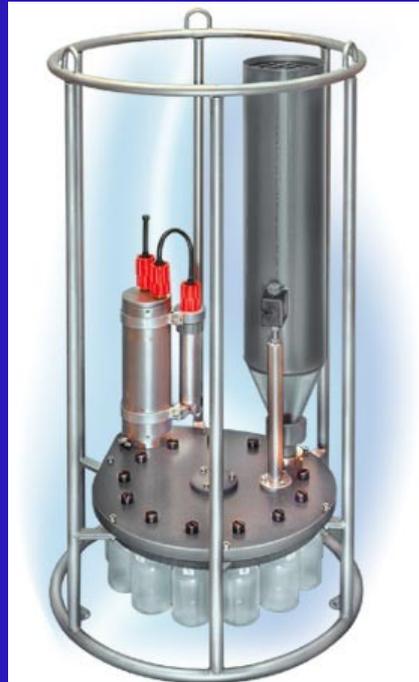
Bloom di coccolitoforidi lungo le coste della Tasmania

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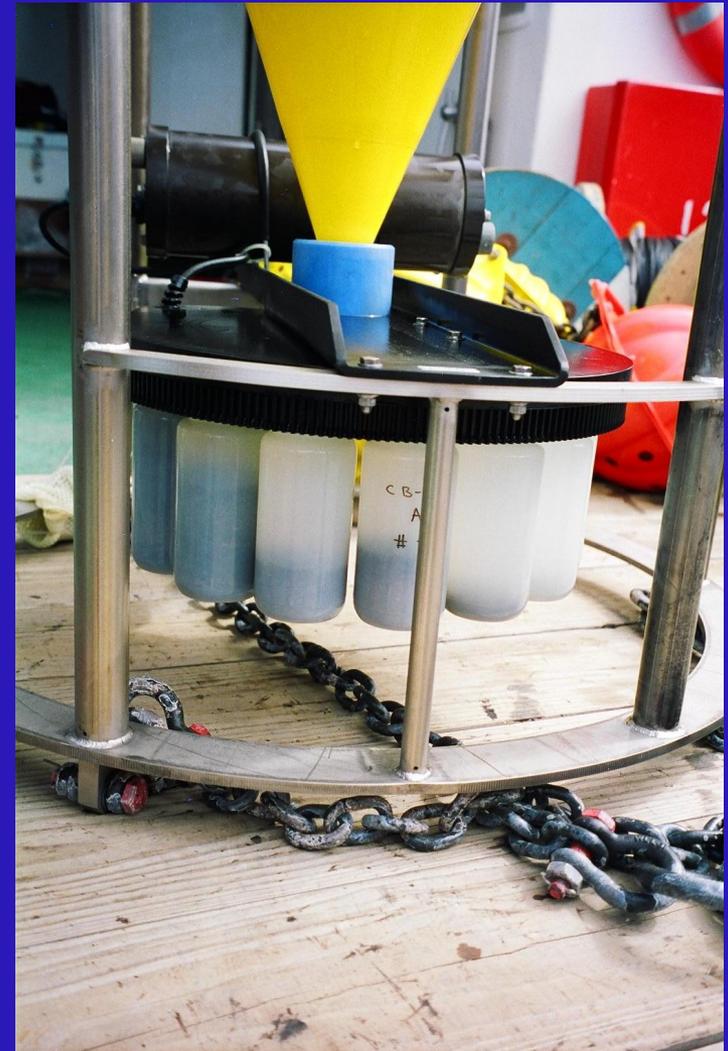
SEDIMENT TRAP



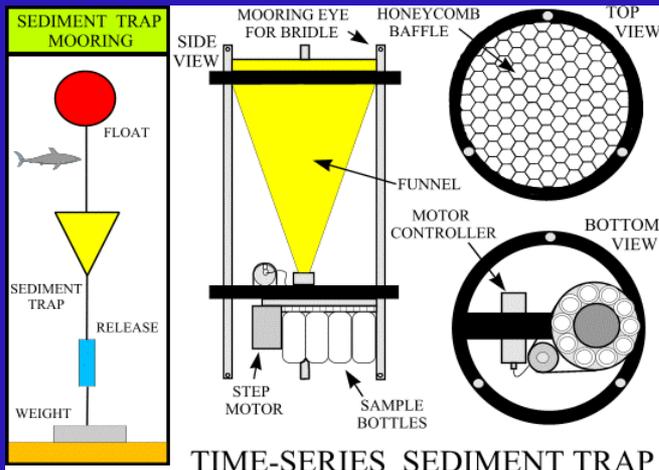
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