

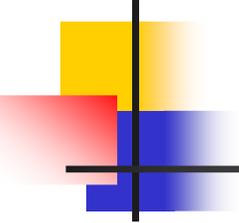
Mean effects of atmospheric nutrient inputs in the pelagic Mediterranean Sea

G. Crispi and A. Crise



Trieste

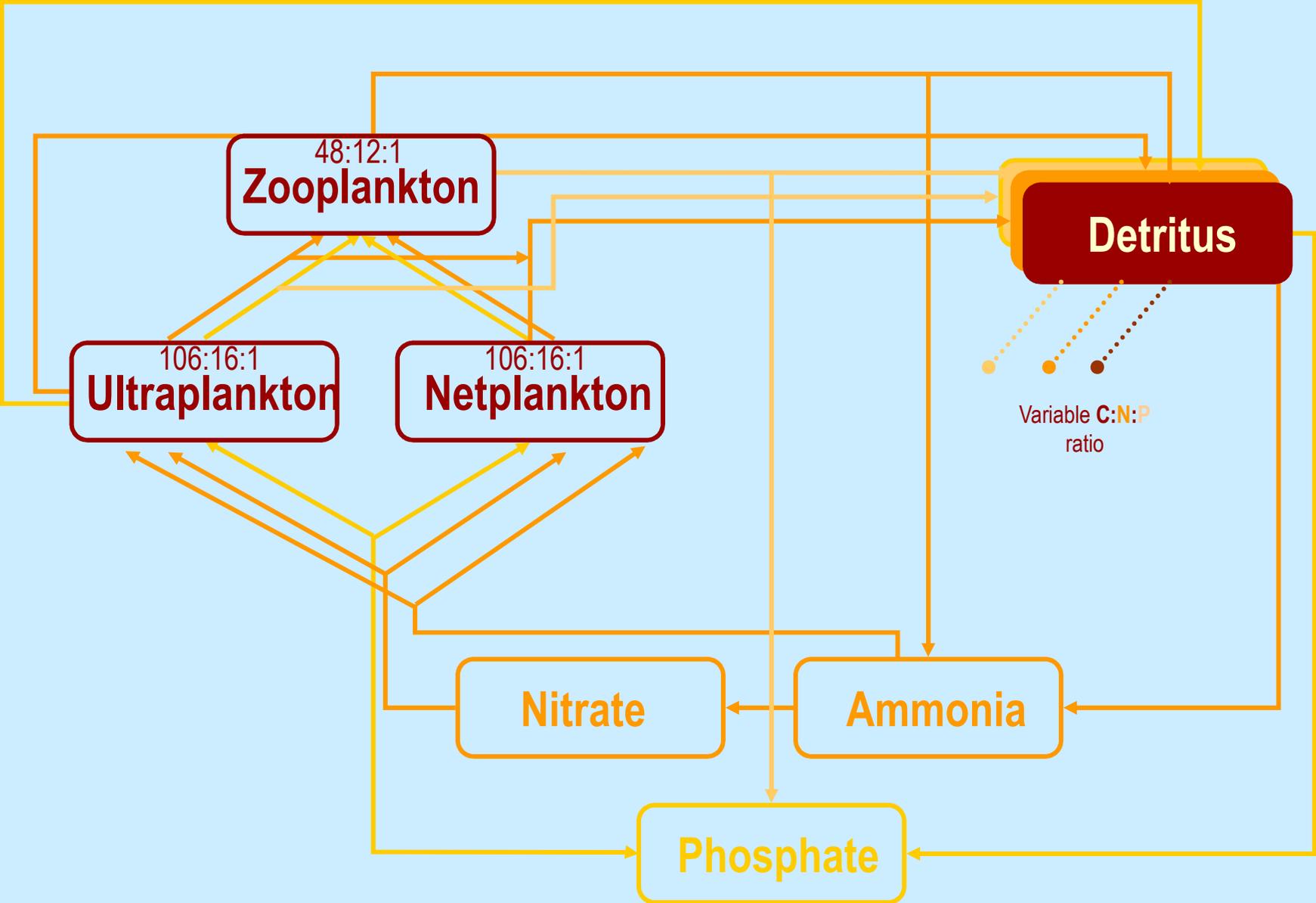
ADIOS First Scientific Meeting
Tangier, 27-29 September 2002



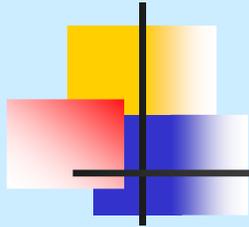
ECHYM

- Nutrient limitation
- Phytoplankton seasonal cycling
- Matter recirculation

ECHYM Biochemical Compartments

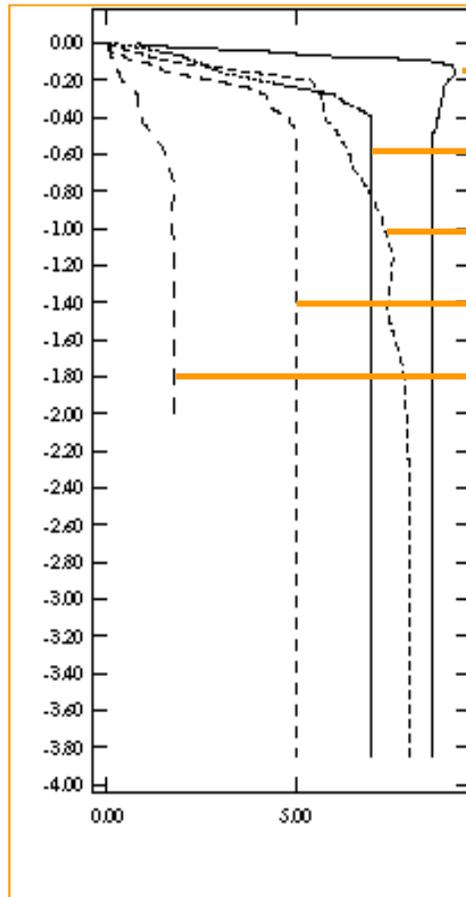


Initial conditions for Nutrients



- Nitrate vertical profiles
- Ammonia null
- Redfield for PO_4

Depth
(km)



Alboran (Coste et al., 1988)

Ligurian (Coste et al., 1988)

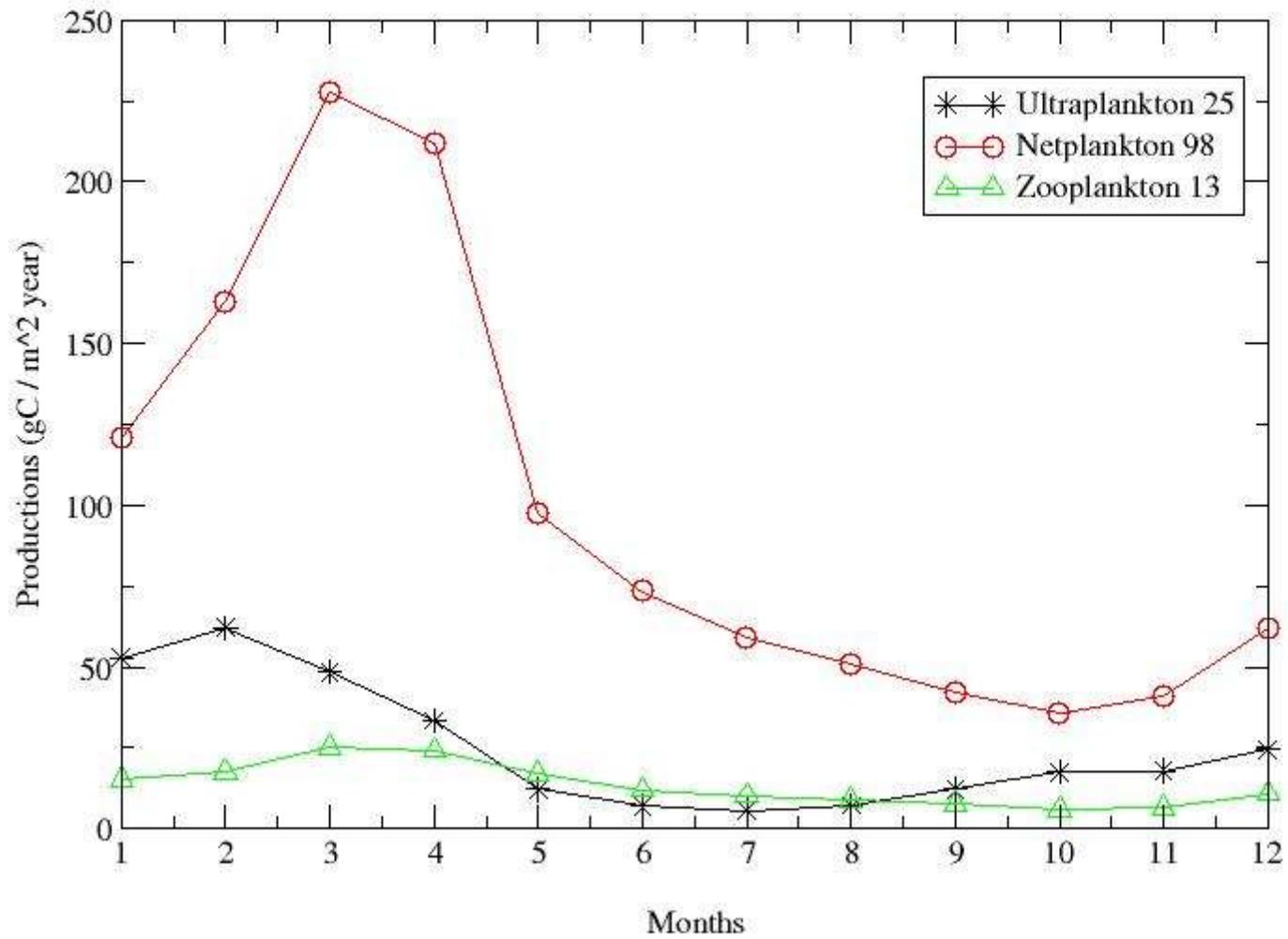
Tyrrhenian (POEM Group, 1992)

Eastern Med. (Rabitti et al., 1994)

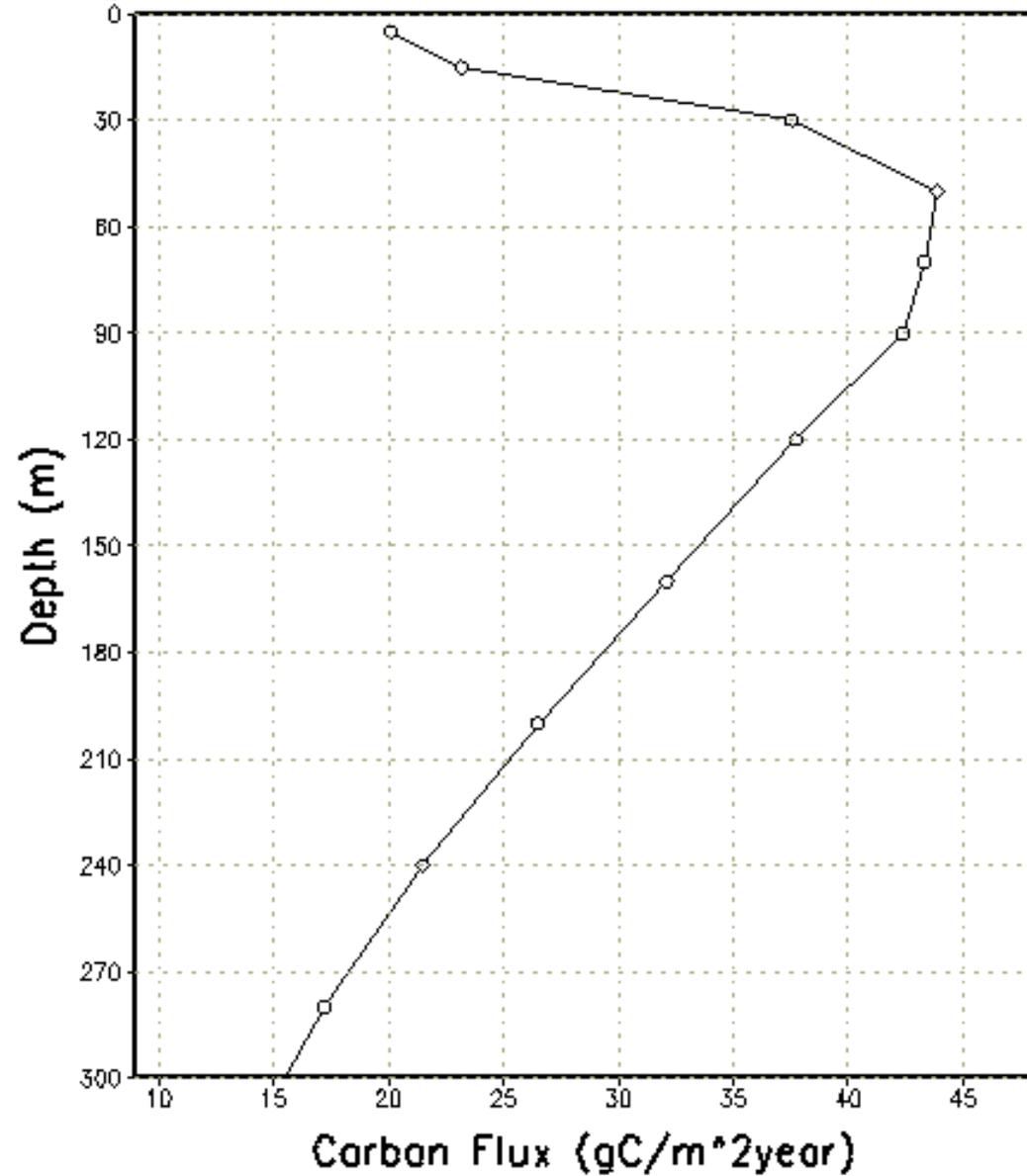
Aegean (McGill, 1970)

Initial Concentrations ($\mu\text{MN/l}$)

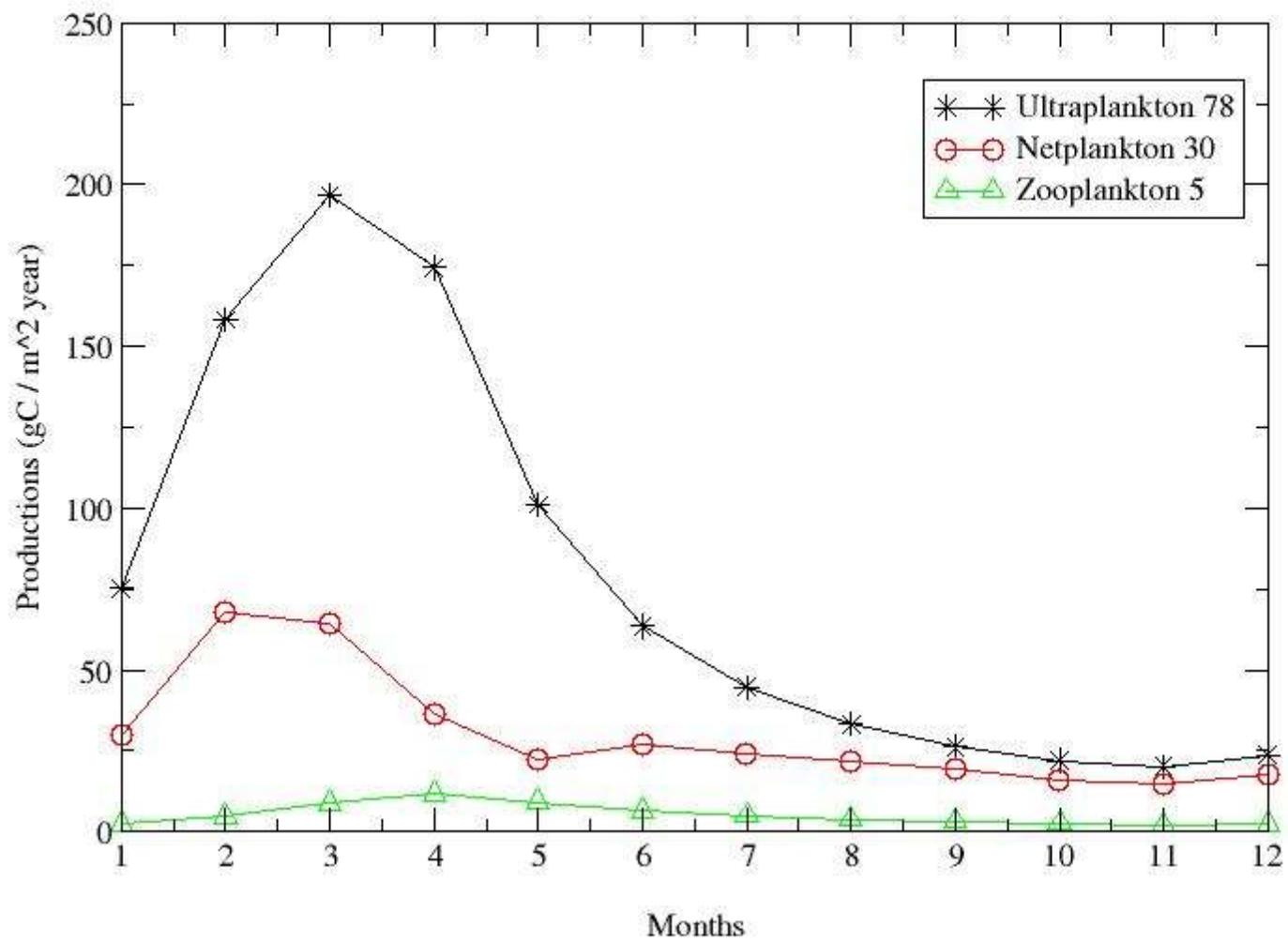
Western Basin Productions



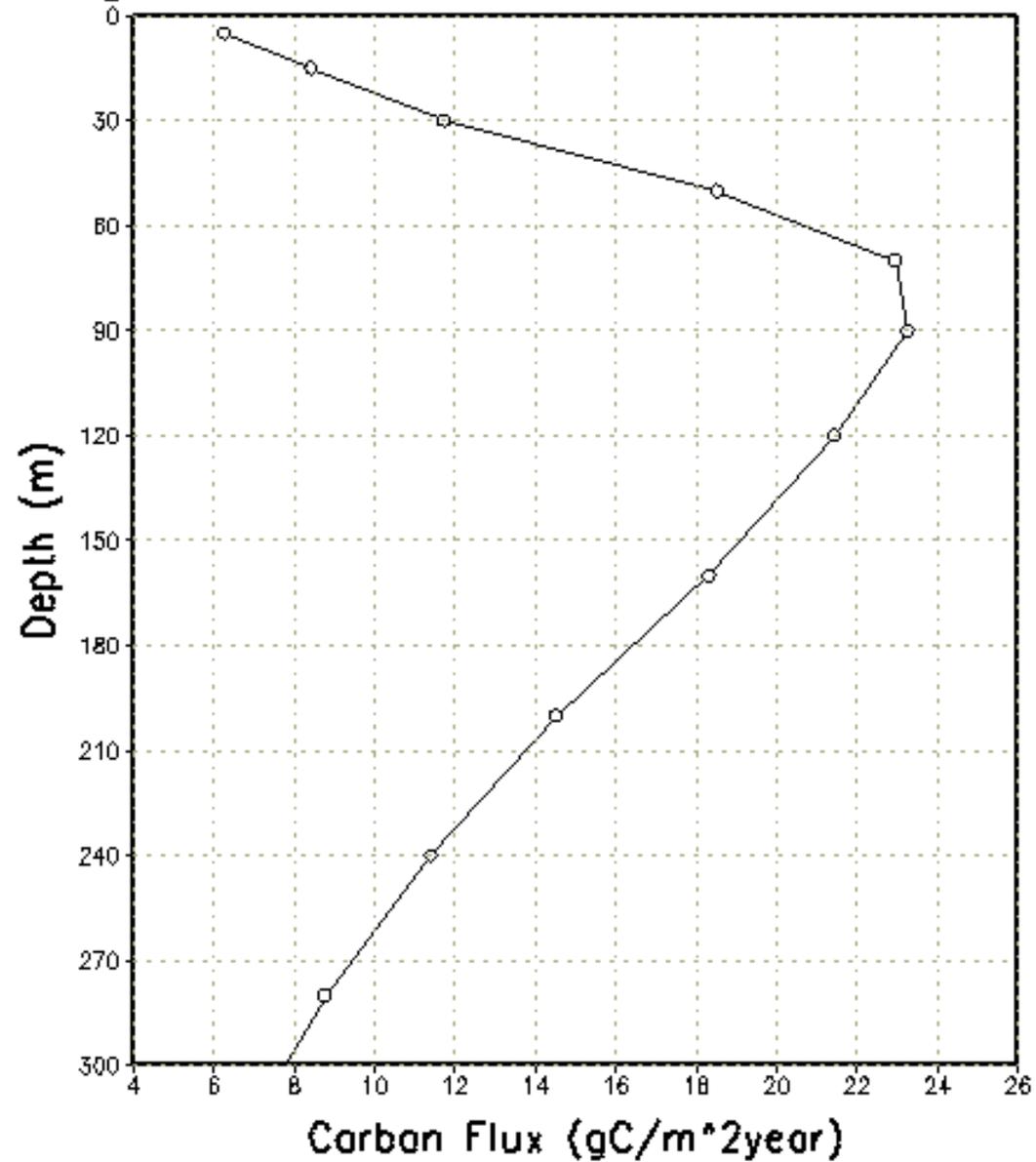
Average Carbon Export in Western Mediterranean



Eastern Basin Productions

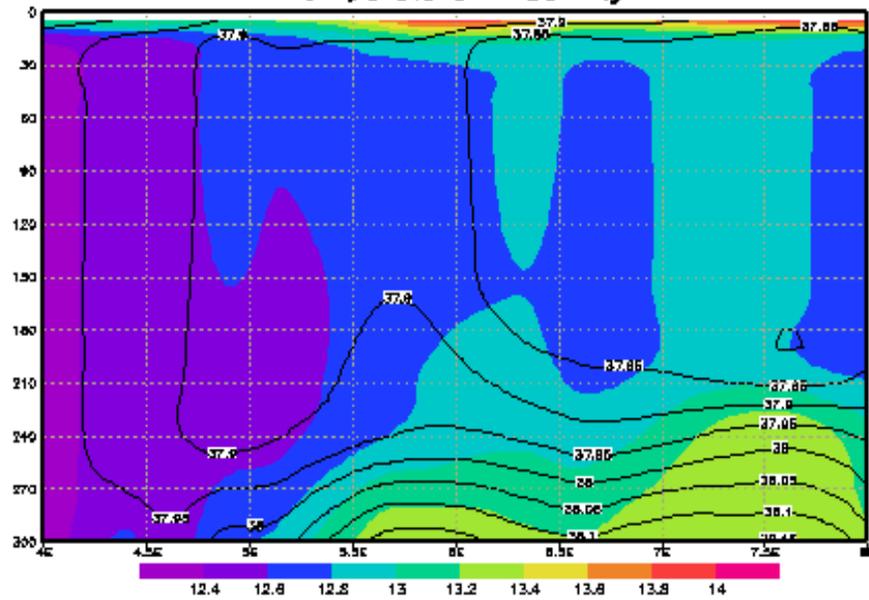


Average Carbon Export in Eastern Mediterranean

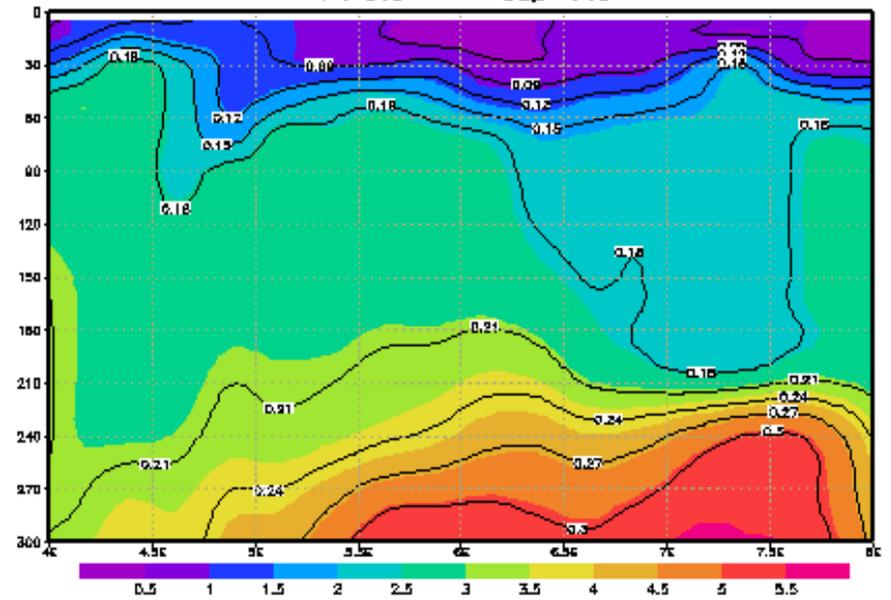


No Flux in April at 42.5N

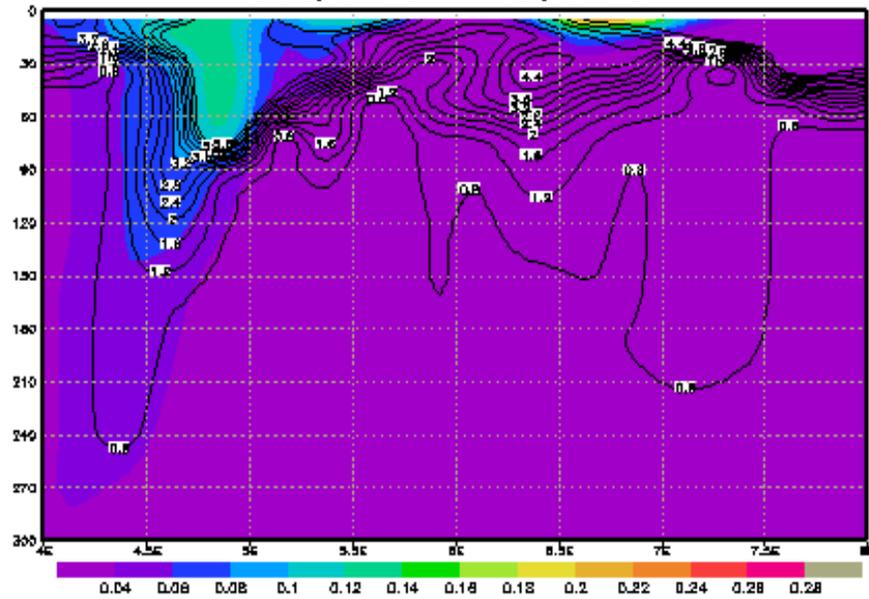
Temperature - Salinity



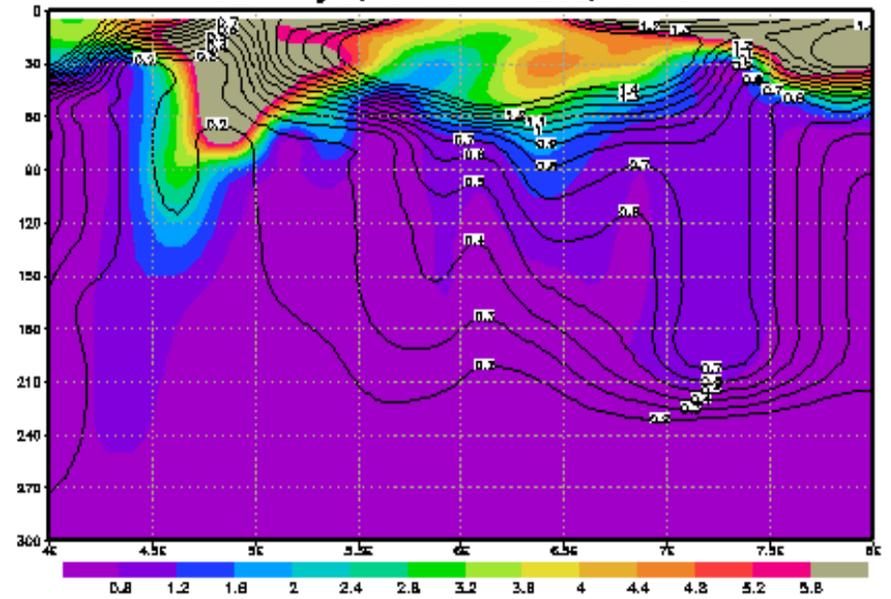
Nitrate - Phosphate



Ultraplankton - Netplankton

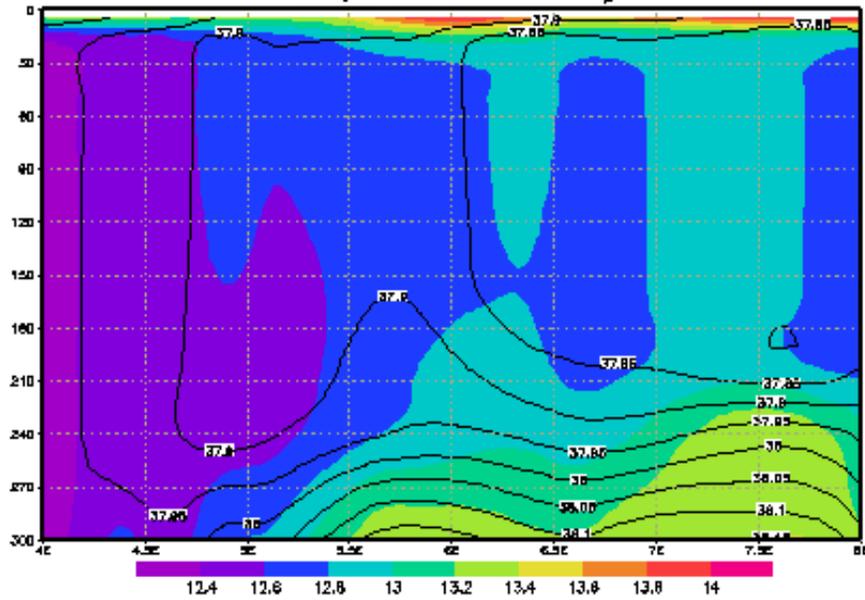


Total Phytoplankton - Zooplankton

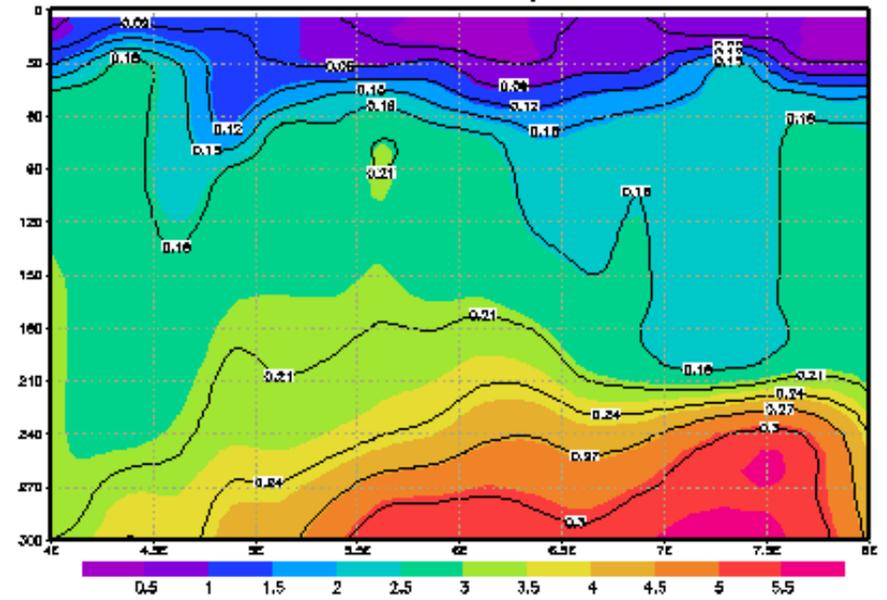


Low Flux in April at 42.5N

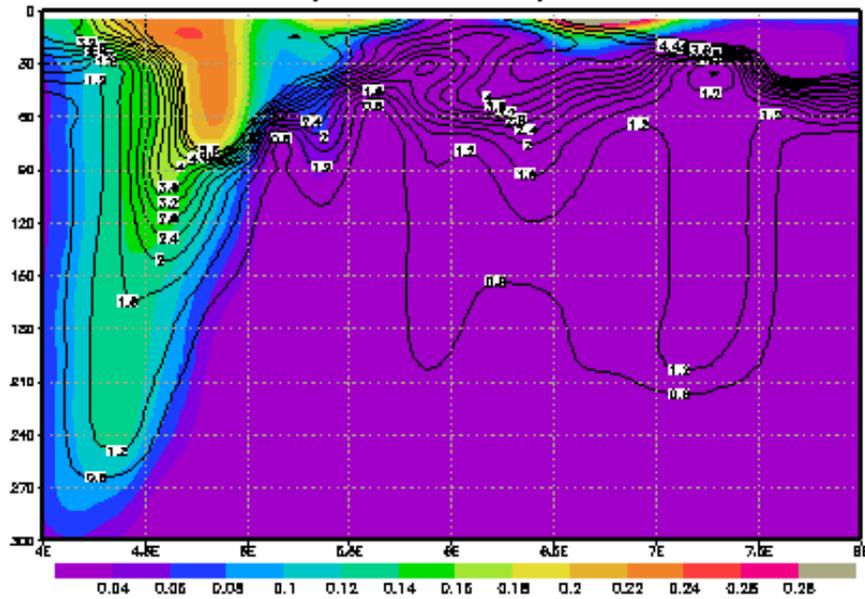
Temperature - Salinity



Nitrate - Phosphate



Ultraplankton - Netplankton



Total Phytoplankton - Zooplankton

