

Table 2: Incident light energy ($E\ m^{-2}\ d^{-1}$) during the day (E_d) and during the incubation (E_i) and integrated primary production (IPP: $mg\ C\ m^{-2}\ day^{-1}$) in GAR lagoon

| date | stat | Z st. | E_d | E_i | dt | IPP _{20m} | IPP _{30m} |
|------------|------|-------|-------|-------|------|--------------------|--------------------|
| 18/04/1994 | 10 | 37 | 30.85 | 15.24 | 3.18 | 912 | 1363 |
| 18/04/1994 | 2 | 28 | 30.85 | 15.24 | 3.18 | 1337 | |
| 19/04/1994 | 7 | 43 | 36.71 | 18.25 | 3.09 | 694 | 1025 |
| 19/04/1994 | 13 | 38 | 36.71 | 18.25 | 3.09 | 852 | 1221 |
| 20/04/1994 | 11 | 39 | 20.8 | 7.33 | 3.00 | 604 | 788 |
| 20/04/1994 | 4 | 39 | 20.8 | 7.33 | 3.00 | 987 | 1295 |
| 21/04/1994 | 18 | 34 | 20.43 | 9.83 | 4.27 | 1036 | 1378 |
| 22/04/1994 | 21 | 30 | 21.18 | 10.92 | 3.09 | 803 | |
| 22/04/1994 | 15 | 29 | 21.18 | 10.92 | 3.09 | 1002 | |
| Average | | | | | | 914.0 | 1178.3 |
| n | | | | | | 9 | 6 |
| SE | | | | | | 71.5 | 94.0 |

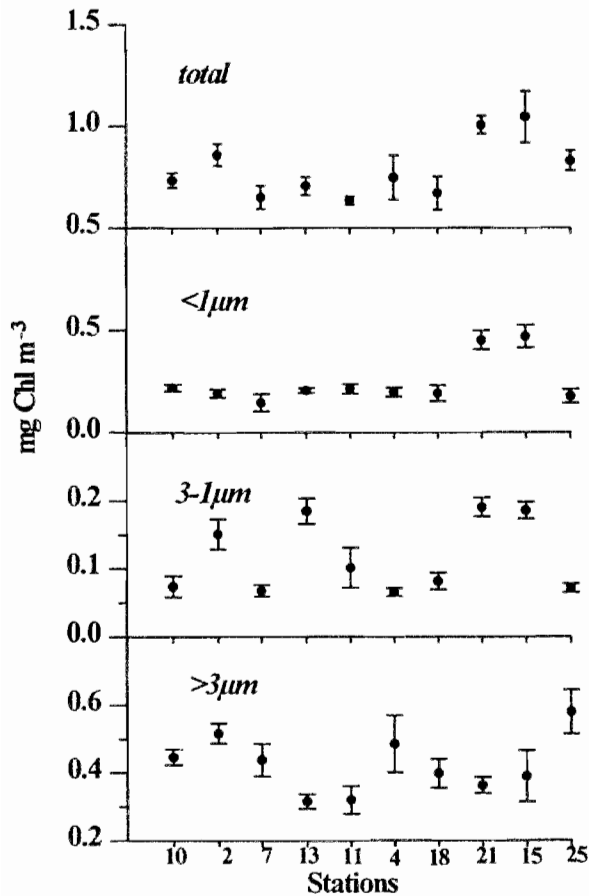


Figure 3: Average \pm SE of Chl in different size fractions in GAR lagoon

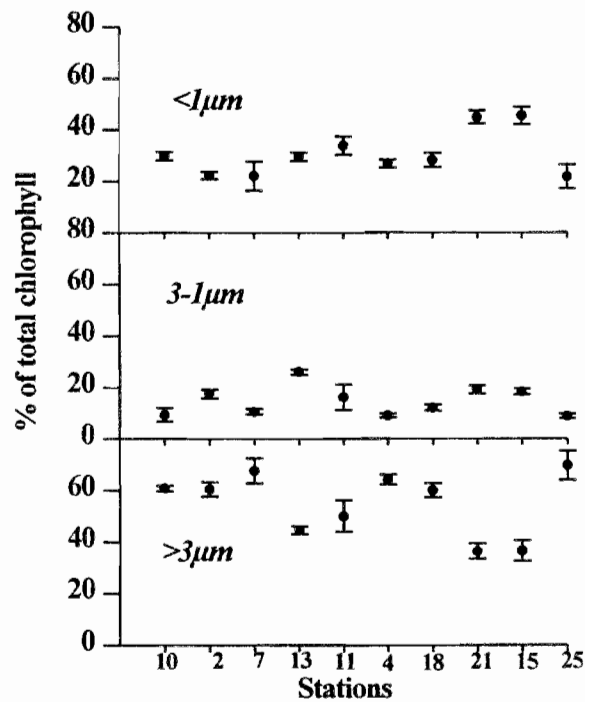


Figure 4: Percentages of Chl in different size fractions in GAR lagoon

3.2 Ocean

The maximum of chlorophyll in ocean was at 30 m depth ($0.44\ mg\ m^{-3}$) and represented 40 % of the lagoonal Chl. The $>3\mu m$ size class dominate phytoplankton in the upper 40 m and the $<1\mu m$ size class below (Figure 5).

