



Rate of photooxidation of lipid-bound carbon

- Scenario A: Assuming photolability of IP-DAG containing PUFA with  $\geq 5$  double bonds
- Scenario B: Assuming photolability of IP-DAG containing PUFA with  $\geq 3$  and  $< 5$  double bonds

Bacterial production at sea surface

- PAL-LTER Station E
- PAL-LTER Station B
- Palmer Station seawater intake