

Euphotic Zone
(0-100 m)

Net Community Production

3.0 ± 0.6

Supply of NCP after subtracting
sinking export at 500 m

Upper Mesopelagic Zone
(100-500 m)

SUPPLY

0.4 ± 0.1

NPP >100m
Inversion

+

0.5 ± 0.1 (Obs)

2.0 ± 1.6
(Inversion)

DVM Supply

+

0.5 ± 0.5 (Traps)

0.8 ± 1.3 (^{234}Th)

2.2 ± 0.4 (^{210}Po)

1.5 ± 0.7 (Gels)

Sinking Flux

+

0.1 ± 0.1

Chemoautotrophy

5.6 ± 3.2

DOC from earlier
(Jul-Sep)

units of
 $\text{mmol C m}^{-2} \text{ d}^{-1}$

16
14
12
10
8
6
4
2
0

DOC Supply

Long-term Float/Glider O_2

SUPPLY

DEMAND

DEMAND

Bacterioplankton
Free-Living

4.0 ± 0.3

+

Bacterioplankton
Particle-attached

0.5 ± 0.2

+

MicroZoop.
Bacterivory-based

0.4 ± 0.2

+

MesoZoop.
Residents

0.7 ± 0.1

Float/Glider O_2
(Aug-Nov)

14.1 ± 8.2
 16.7 ± 2.7