

**Supplementary Table 6.** Cells per L for prokaryotic groups in Figure 6 for station R-2 and F-L, calculated as described in experimental procedures.

Prokaryotic Order	R-2 cells L <sup>-1</sup>	F-L cells L <sup>-1</sup>
Alteromonadales	1045863.3	13983087.5
Oceanospirillales	11147372.2	27410029.5
Pseudomonadales	4336506.3	1032841.7
Pelagibacterales	102775200.0	165731367.0
Flavobacteriales	21478460.8	58156932.1
Actinomycetales	1096881.0	28125073.7
Rhodobacterales	5433387.3	119253491.0
Burkholderiales	162973.3	110346.3
Synechococcales	440264.9	1715609.3