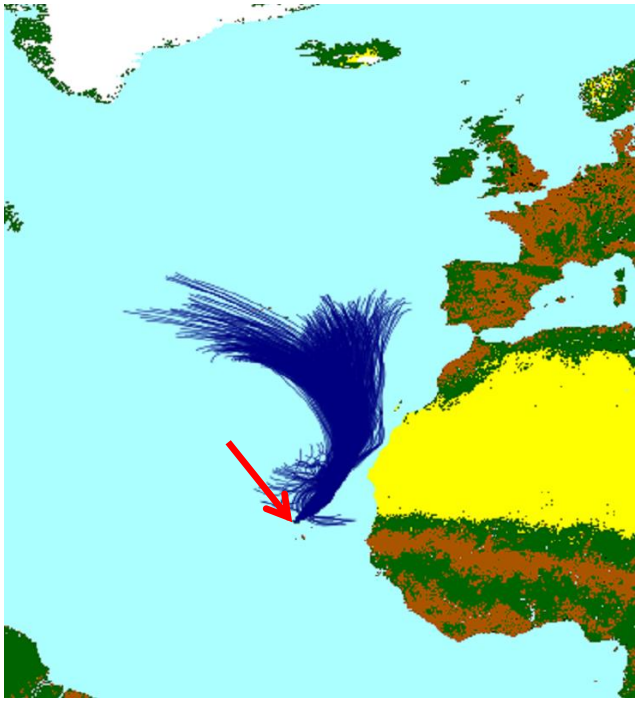
(a)



(b)

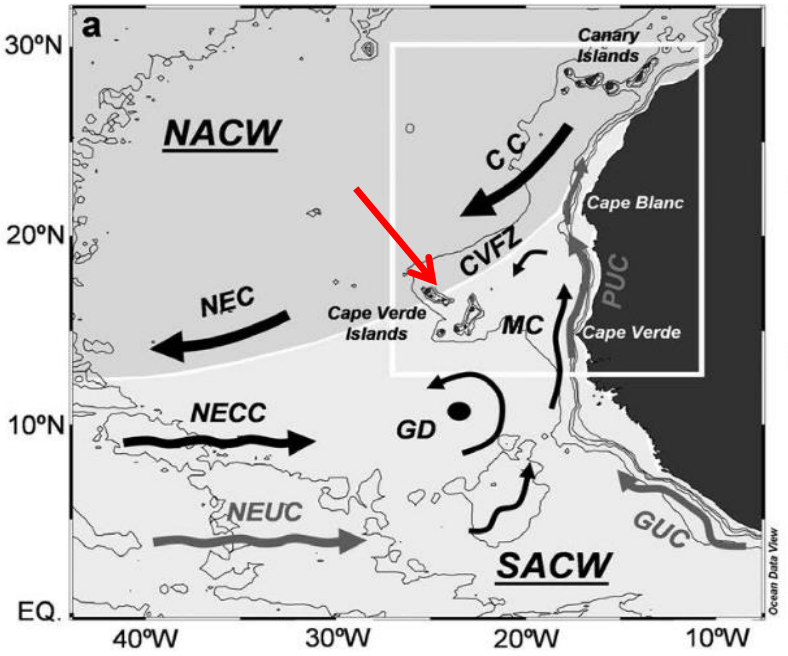
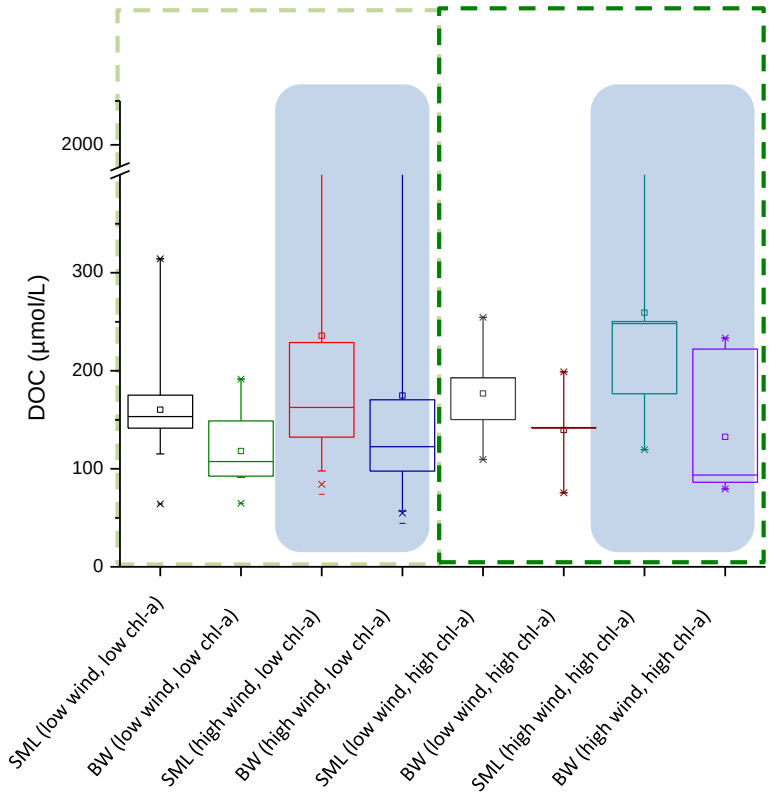

a
30°N
20°N
10°N
EQ.
40°W
30°W
20°W
10°W
NACW
Canary Islands
CC
Cape Blanc
CVFZ
PUC
NEC
Cape Verde Islands
MC
Cape Verde
NECC
GD
NEUC
GUC
SACW
Ocean Data View

Figure S5


DOC (µmol/L)
2000
300
200
100
0
SML (low wind, low chl-a)
BW (low wind, low chl-a)
SML (high wind, low chl-a)
BW (high wind, low chl-a)
SML (low wind, high chl-a)
BW (low wind, high chl-a)
SML (high wind, high chl-a)
BW (high wind, high chl-a)

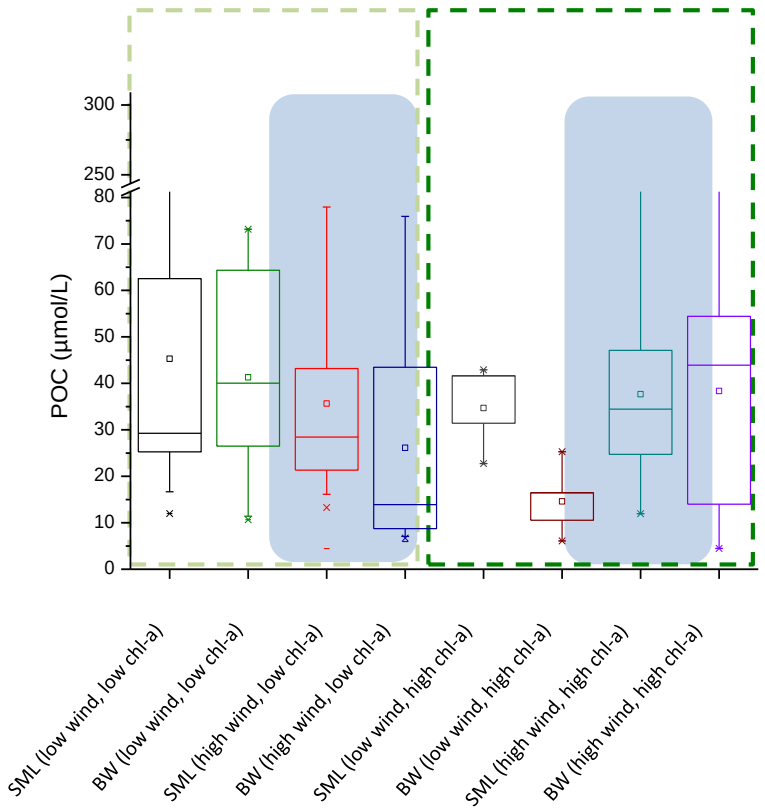

POC (µmol/L)
300
250
80
70
60
50
40
30
20
10
0
SML (low wind, low chl-a)
BW (low wind, low chl-a)
SML (high wind, low chl-a)
BW (high wind, low chl-a)
SML (low wind, high chl-a)
BW (low wind, high chl-a)
SML (high wind, high chl-a)
BW (high wind, high chl-a)

Figure 3

SML thickness

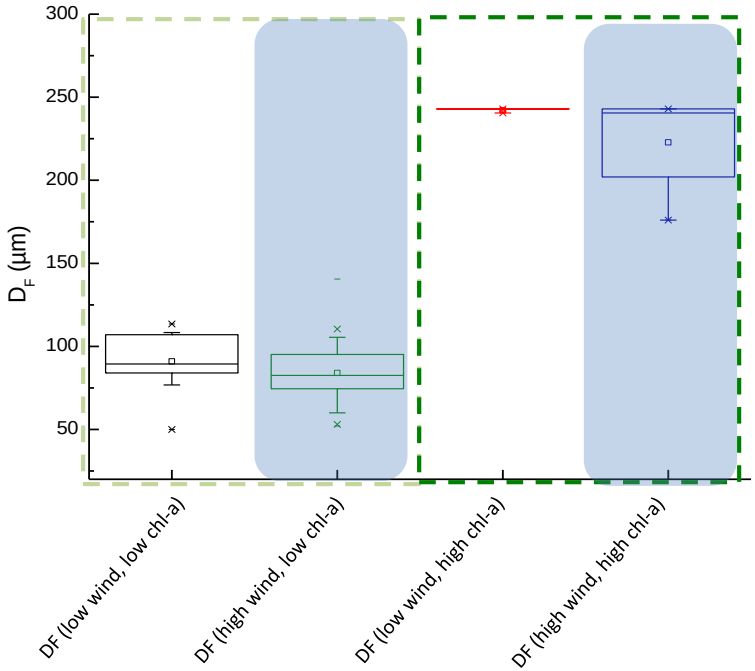


Figure 4

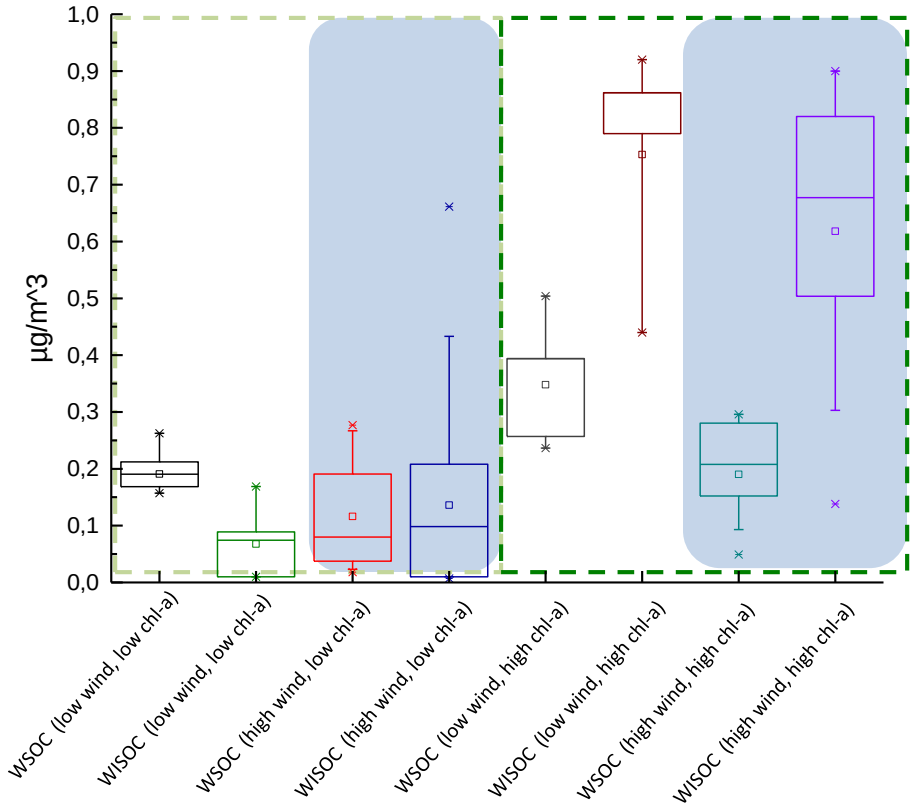
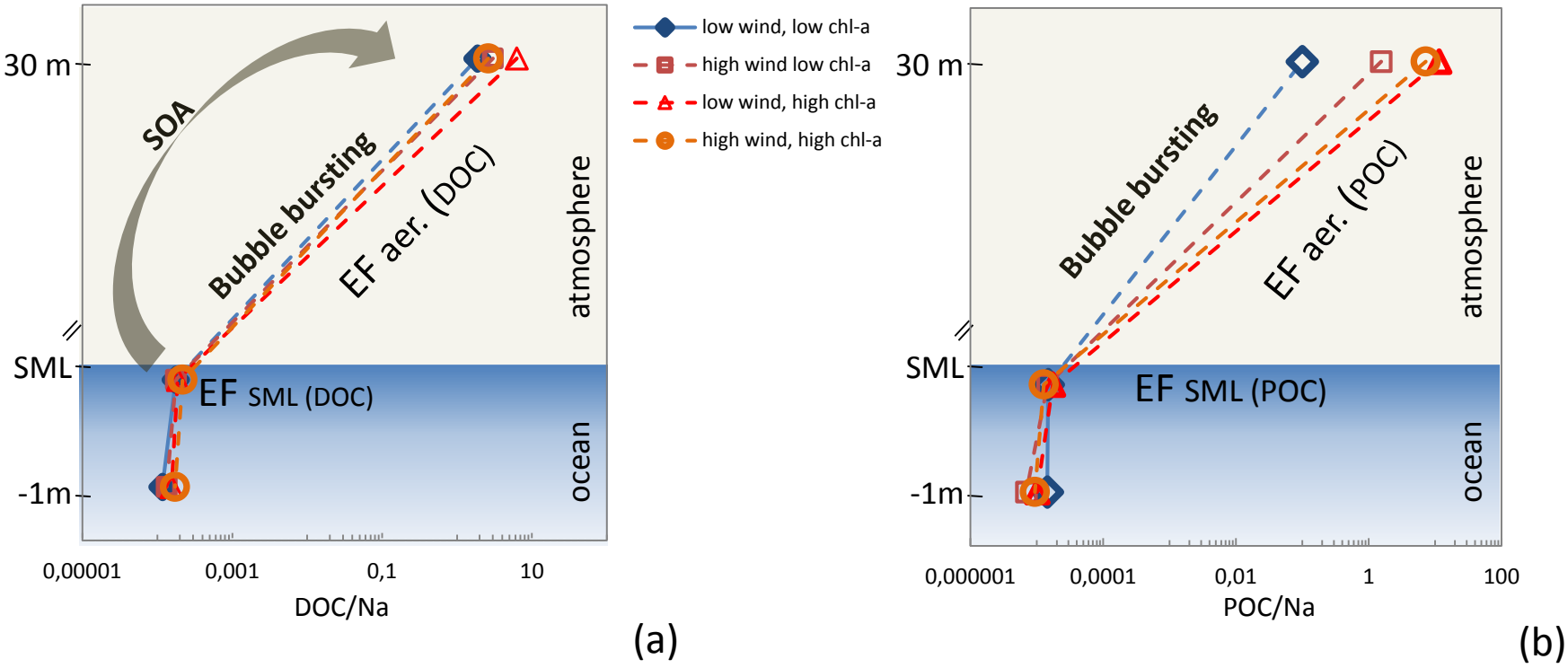

1,0
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0,0
µg/m^3
WSOC (low wind, low chl-a)
WISOC (low wind, low chl-a)
WSOC (high wind, low chl-a)
WISOC (high wind, low chl-a)
WSOC (low wind, high chl-a)
WISOC (low wind, high chl-a)
WSOC (high wind, high chl-a)
WISOC (high wind, high chl-a)

Figure 5

FINAL



*median

Figure 6

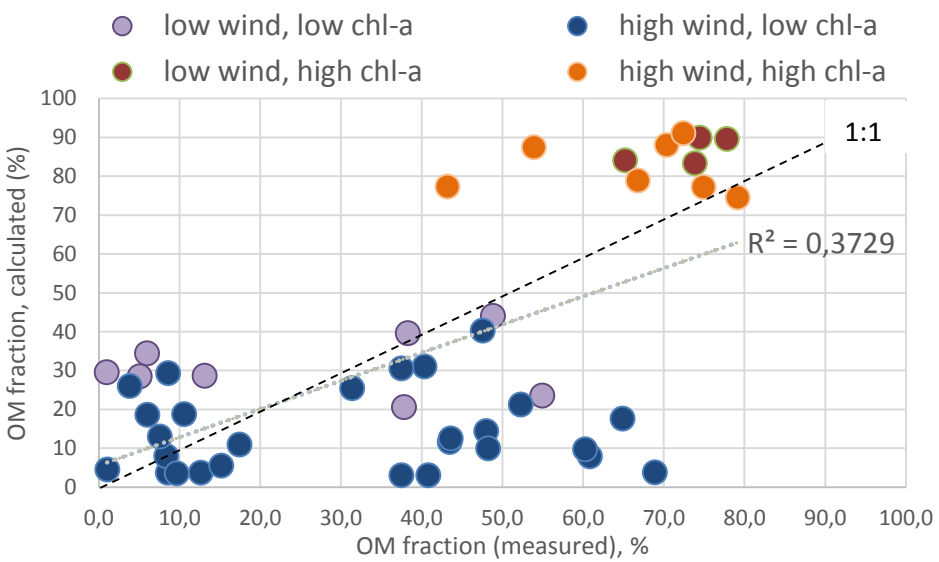

low wind, low chl-a
high wind, low chl-a
low wind, high chl-a
high wind, high chl-a
1:1
R² = 0,3729
OM fraction, calculated (%)
OM fraction (measured), %
0
10
20
30
40
50
60
70
80
90
100
0,0
10,0
20,0
30,0
40,0
50,0
60,0
70,0
80,0
90,0
100,0

Figure 7

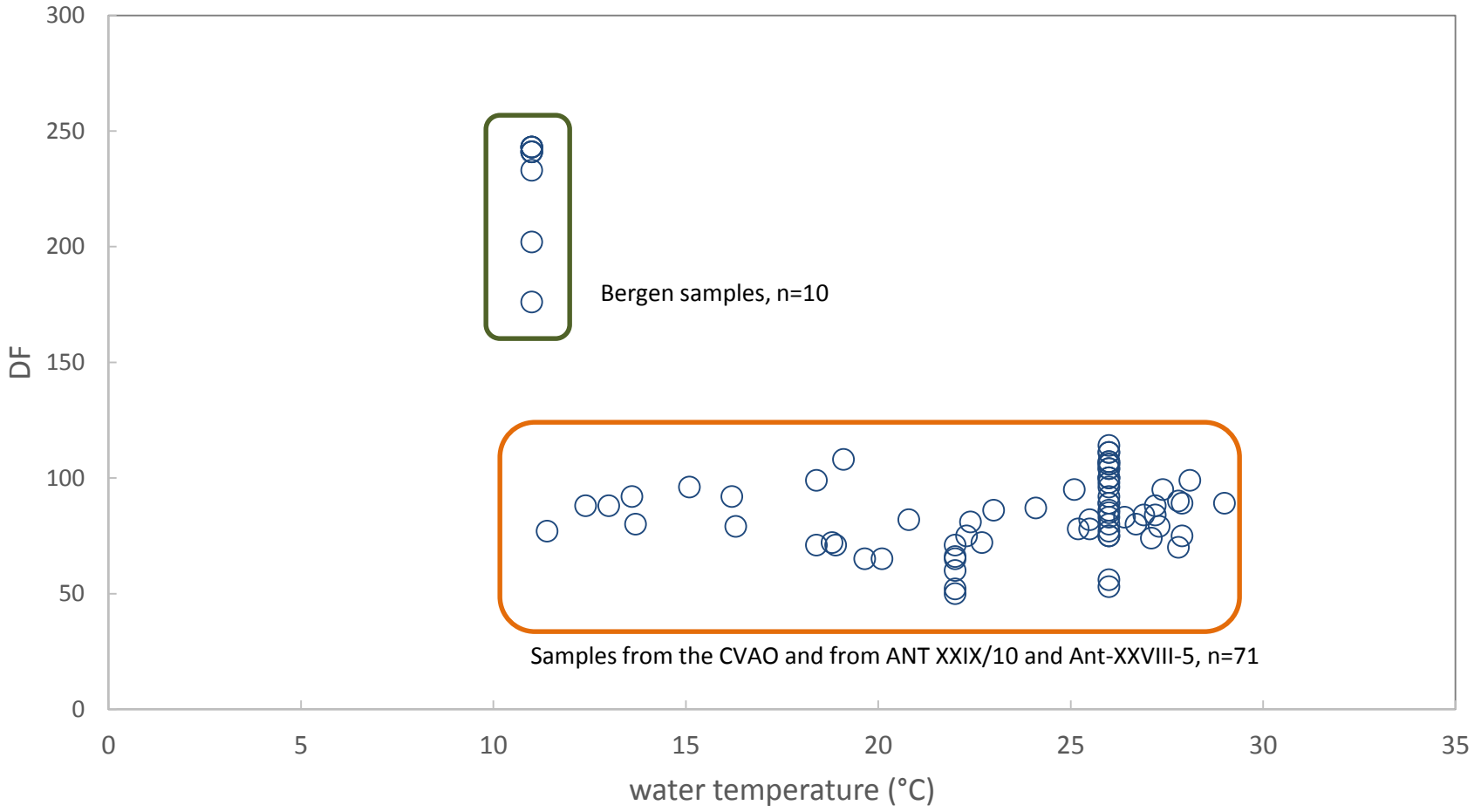

300
250
200
150
100
50
0
DF
0
5
10
15
20
25
30
35
water temperature (°C)
Bergen samples, n=10
Samples from the CVAO and from ANT XXIX/10 and Ant-XXVIII-5, n=71

Figure S4

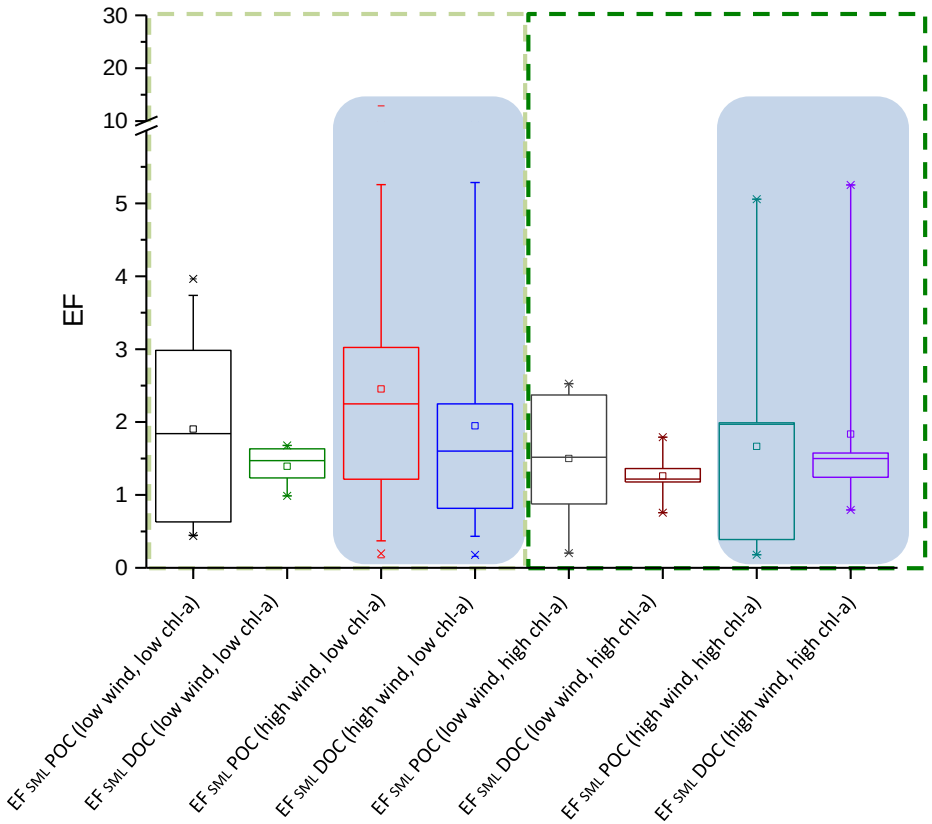
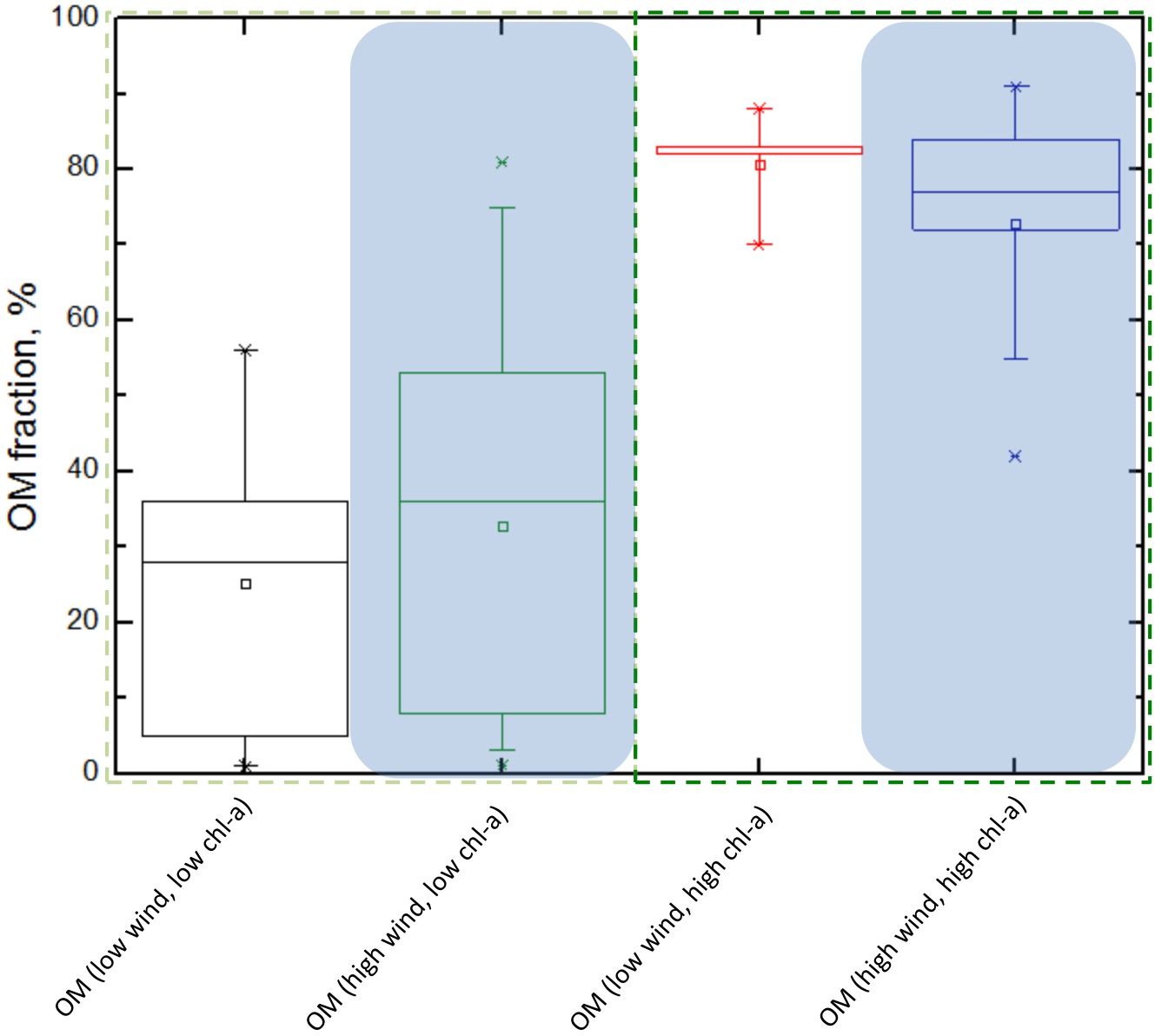

30
20
10
5
4
3
2
1
0
EF
EF SML POC (low wind, low chl-a)
EF SML DOC (low wind, low chl-a)
EF SML POC (high wind, low chl-a)
EF SML DOC (high wind, low chl-a)
EF SML POC (low wind, high chl-a)
EF SML DOC (low wind, high chl-a)
EF SML POC (high wind, high chl-a)
EF SML DOC (high wind, high chl-a)

Figure S3


OM fraction, %
100
80
60
40
20
0
OM (low wind, low chl-a)
OM (high wind, low chl-a)
OM (low wind, high chl-a)
OM (high wind, high chl-a)

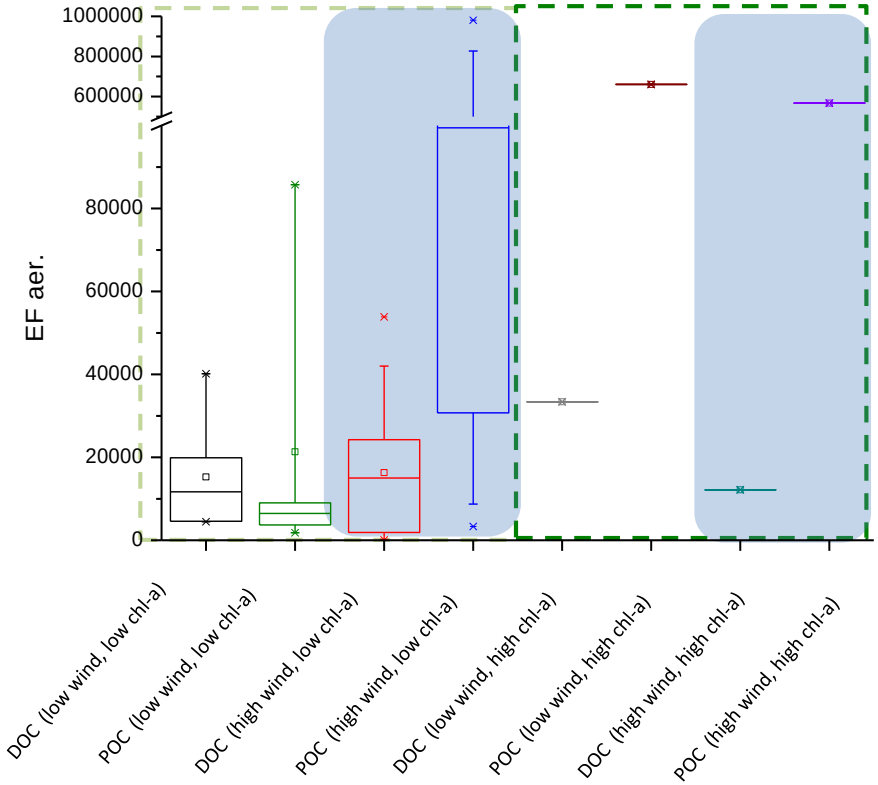

EF aer.
1000000
800000
600000
80000
60000
40000
20000
0
DOC (low wind, low chl-a)
POC (low wind, low chl-a)
DOC (high wind, low chl-a)
POC (high wind, low chl-a)
DOC (low wind, high chl-a)
POC (low wind, high chl-a)
DOC (high wind, high chl-a)
POC (high wind, high chl-a)

Figure S10

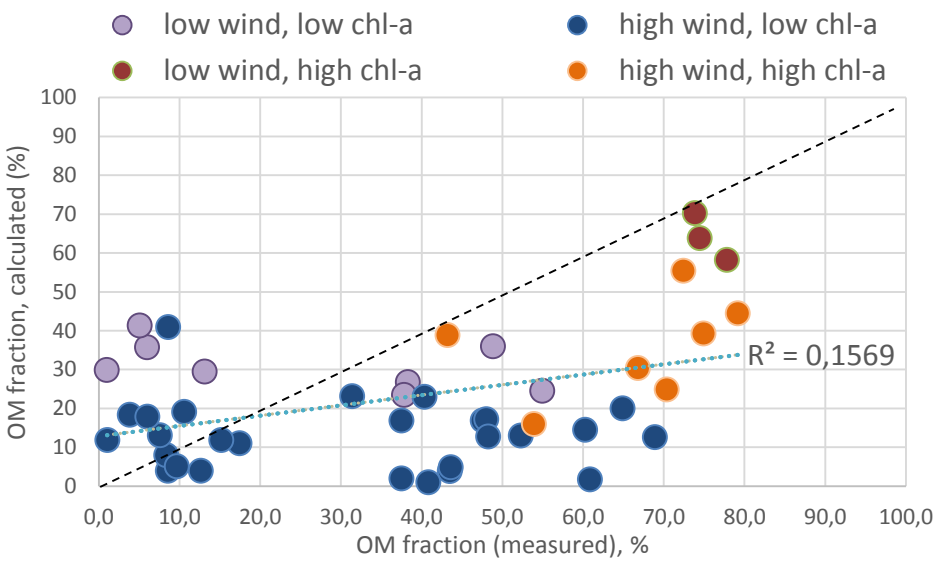

low wind, low chl-a
high wind, low chl-a
low wind, high chl-a
high wind, high chl-a
OM fraction, calculated (%)
OM fraction (measured), %
R² = 0,1569
0
10
20
30
40
50
60
70
80
90
100
0,0
10,0
20,0
30,0
40,0
50,0
60,0
70,0
80,0
90,0
100,0

Fig. S8 neu