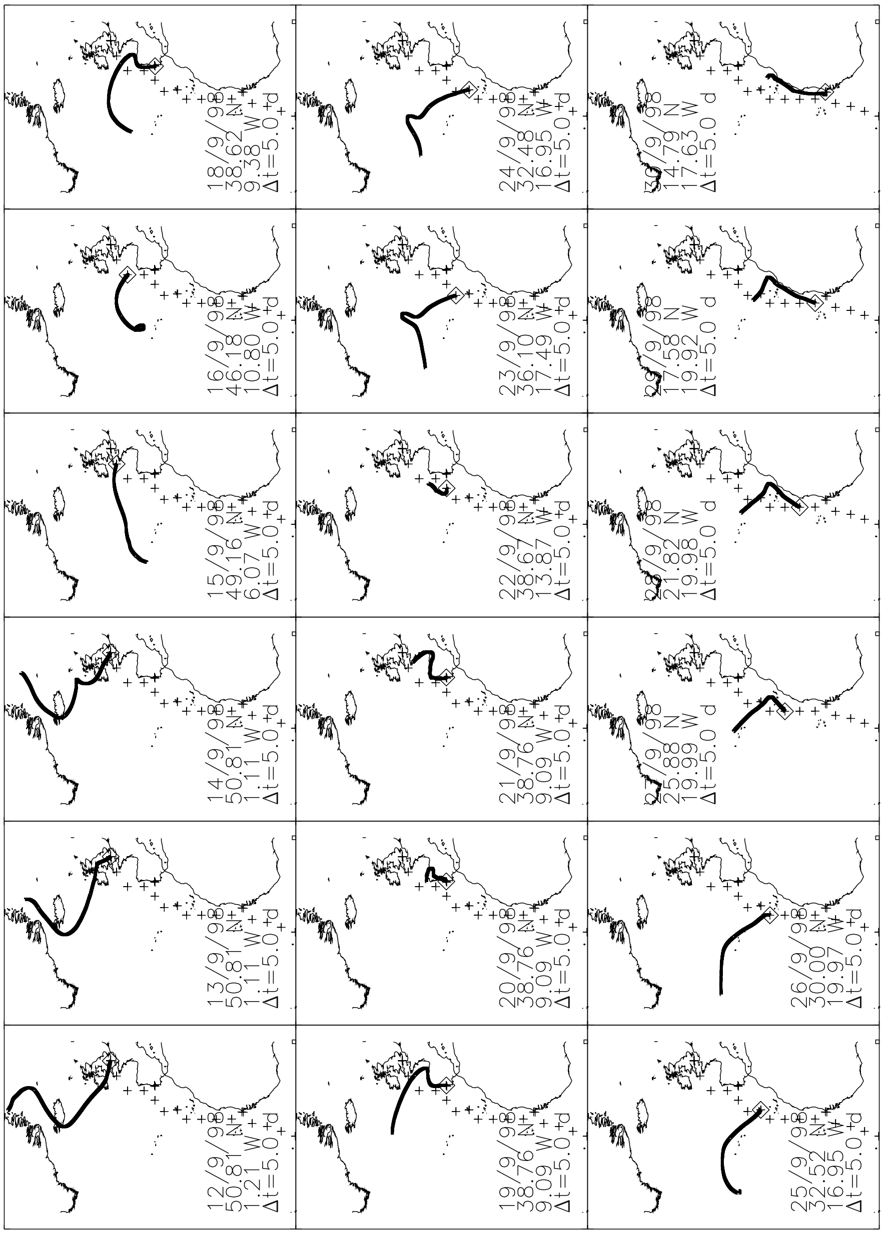
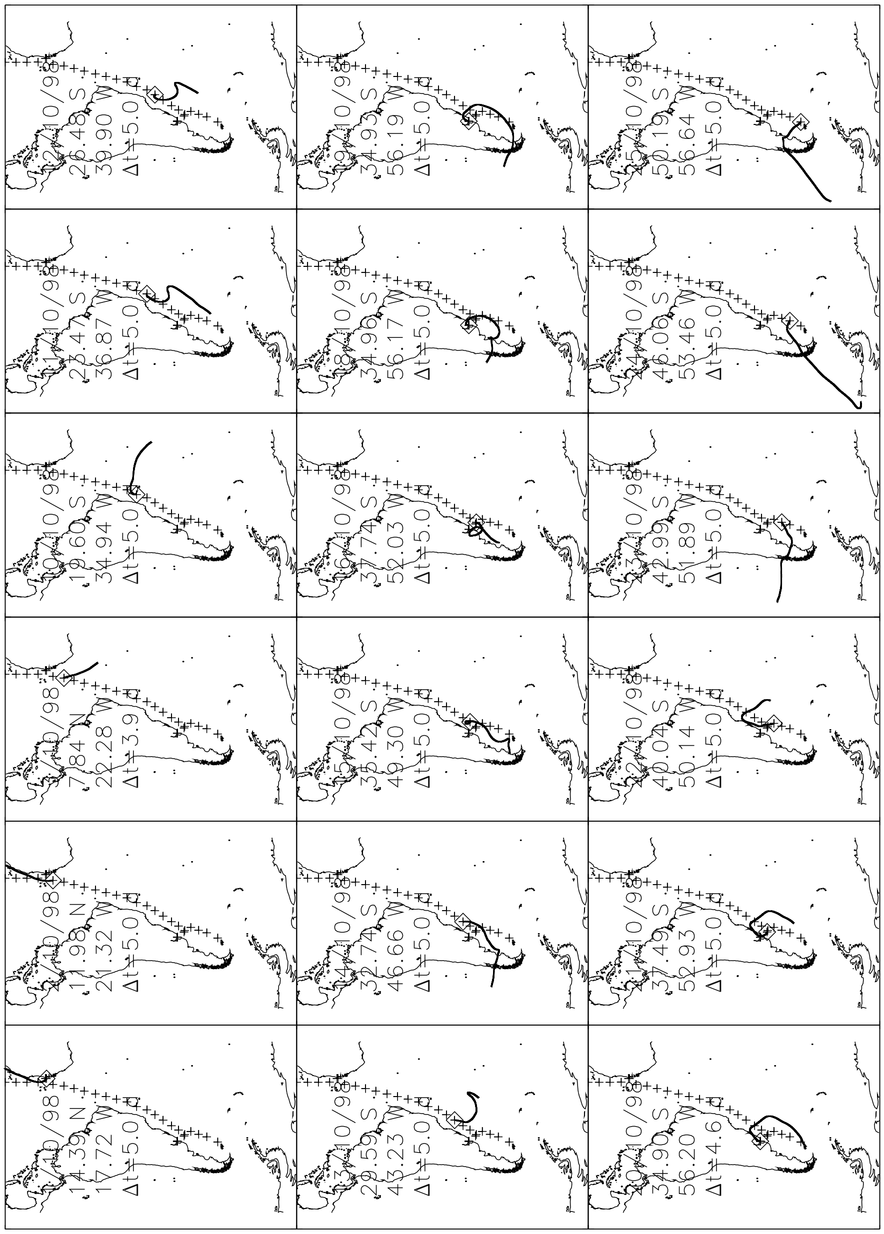
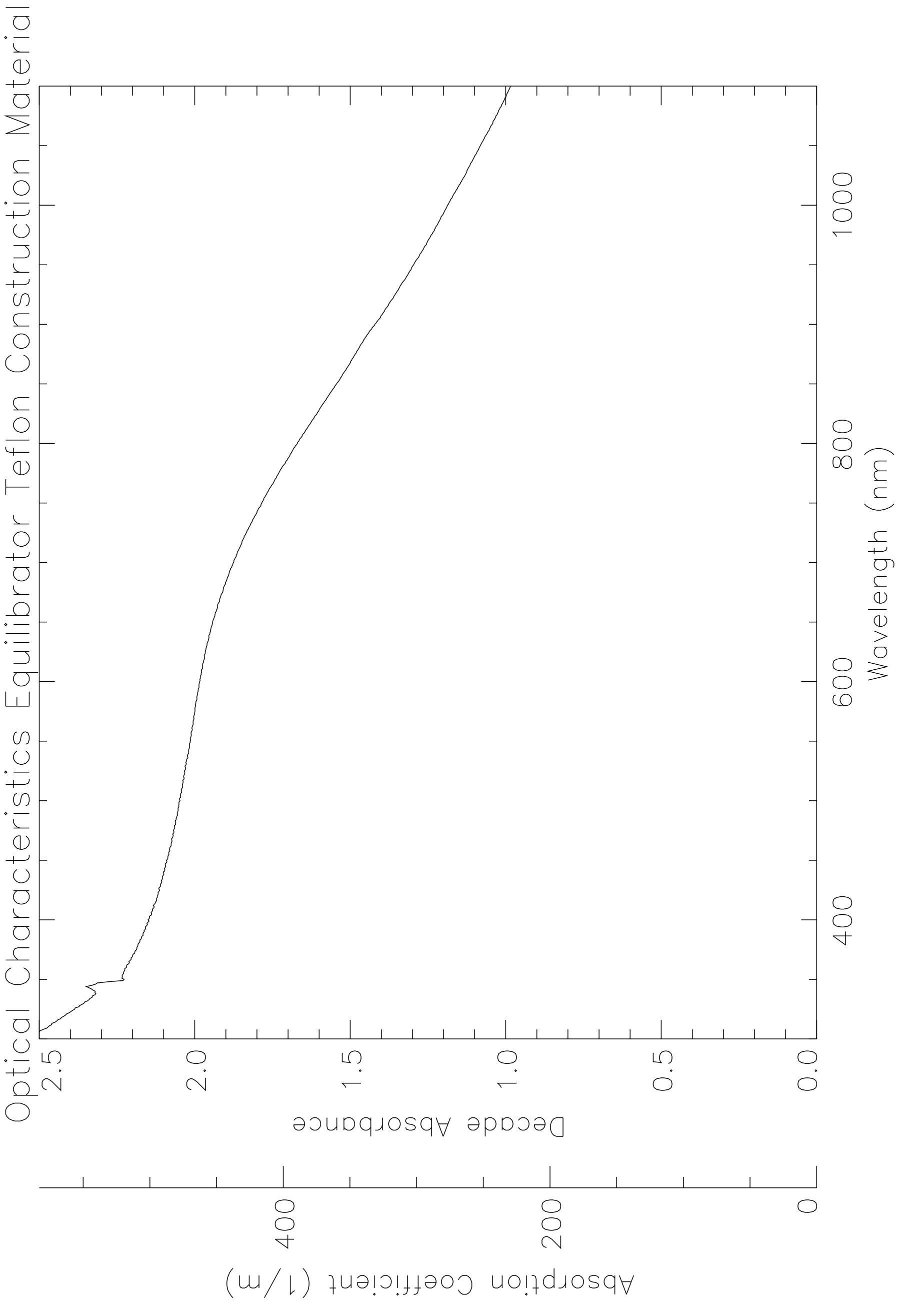
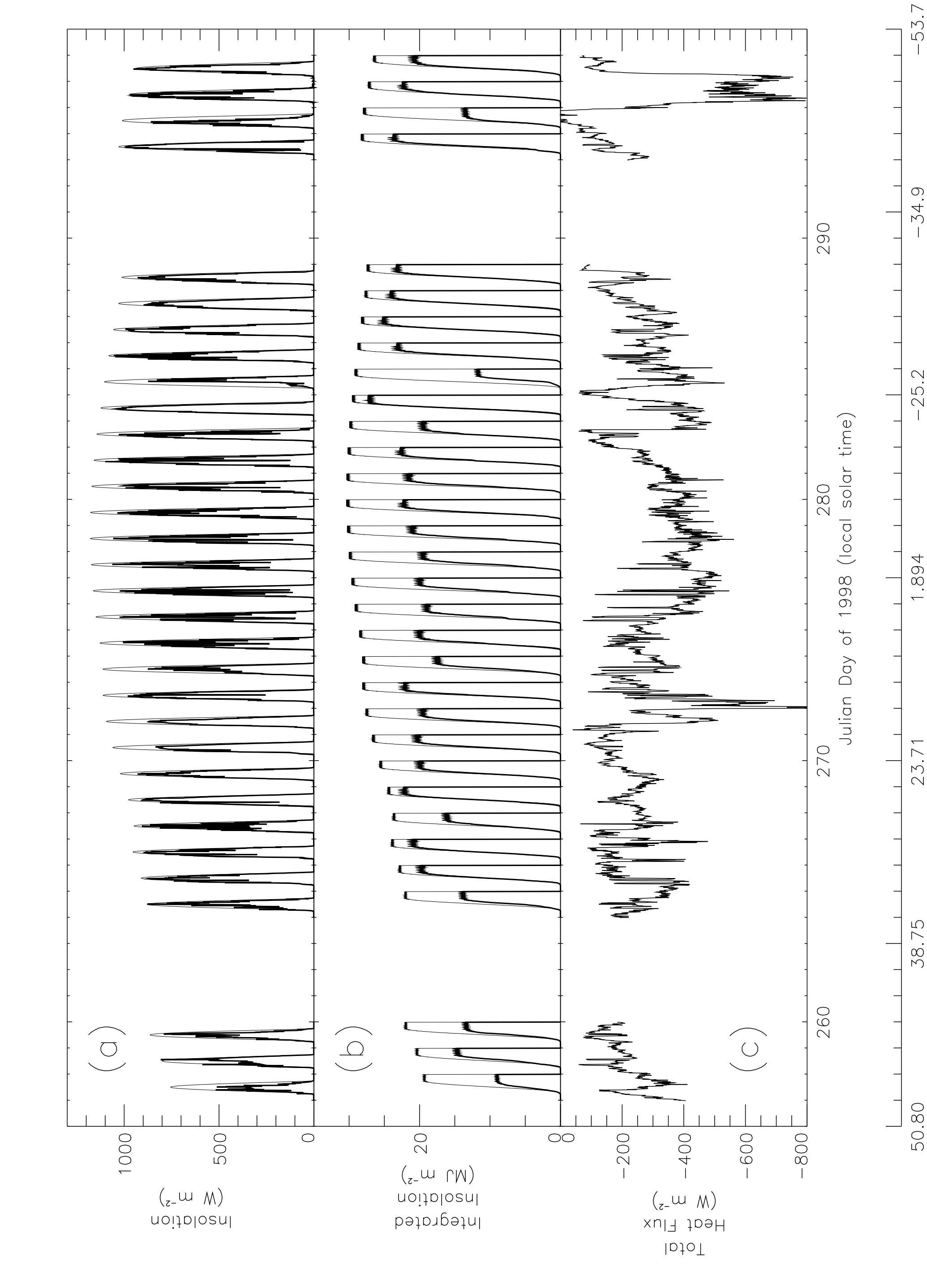
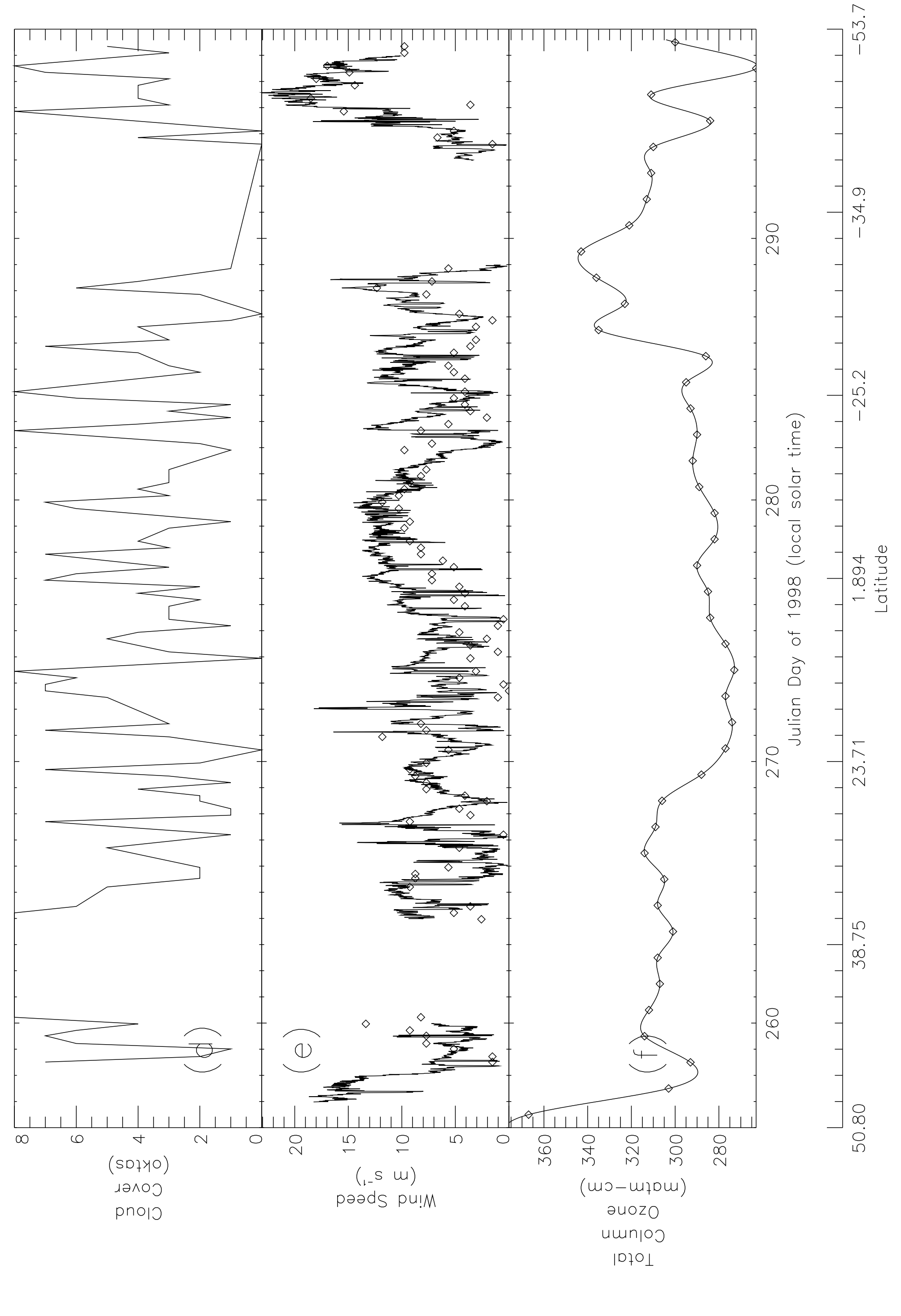
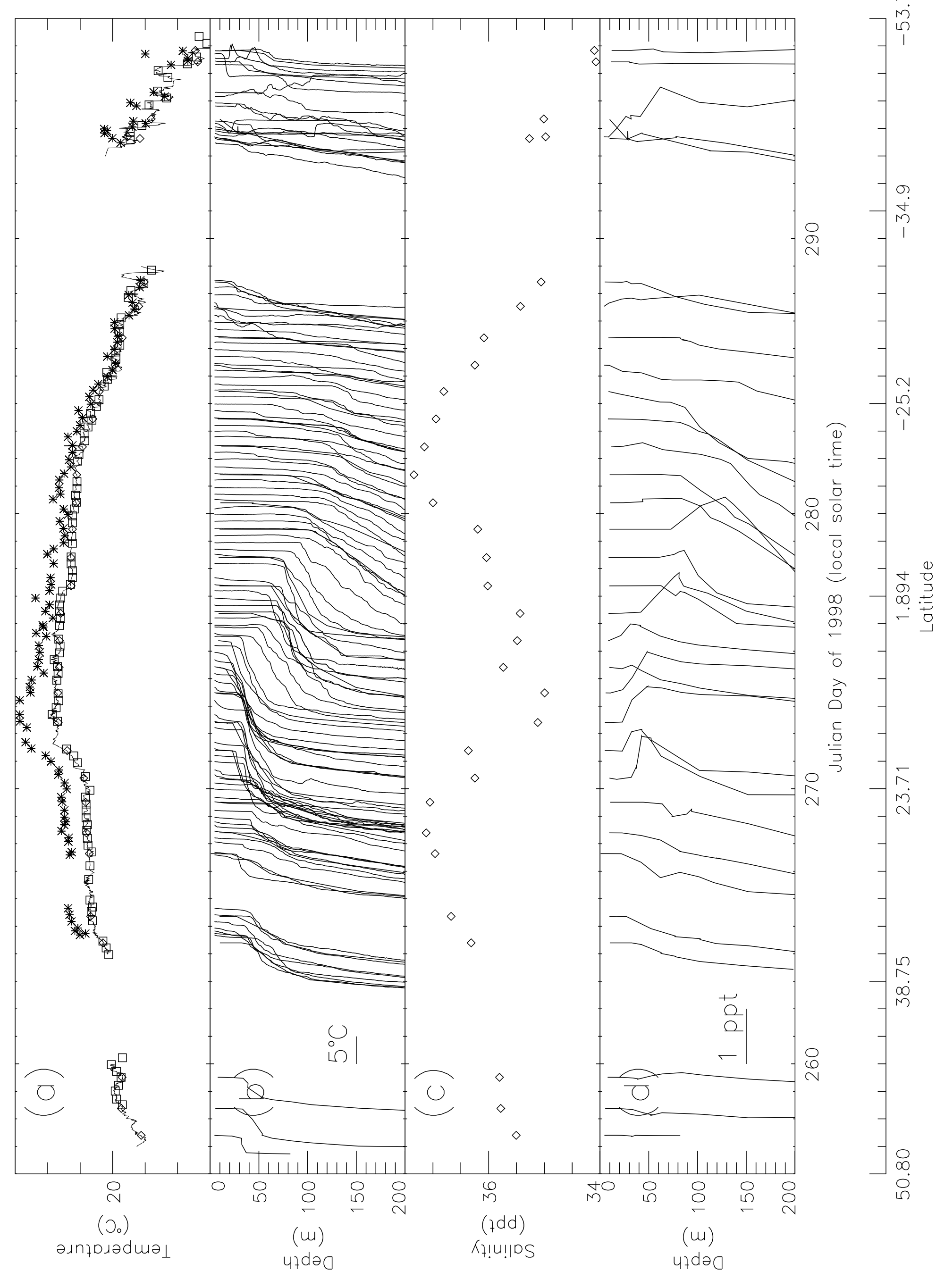

12/9/98 50.81 N 1.21 W Δt=5.0 d
13/9/98 50.81 N 1.11 W Δt=5.0 d
14/9/98 50.81 N 1.11 W Δt=5.0 d
15/9/98 49.16 N 6.07 W Δt=5.0 d
16/9/98 46.18 N 10.80 W Δt=5.0 d
18/9/98 38.62 N 9.38 W Δt=5.0 d
19/9/98 38.76 N 9.09 W Δt=5.0 d
20/9/98 38.76 N 9.09 W Δt=5.0 d
21/9/98 38.76 N 9.09 W Δt=5.0 d
22/9/98 38.67 N 13.87 W Δt=5.0 d
23/9/98 36.10 N 17.49 W Δt=5.0 d
24/9/98 32.48 N 16.95 W Δt=5.0 d
25/9/98 32.52 N 16.95 W Δt=5.0 d
26/9/98 30.00 N 19.97 W Δt=5.0 d
25.88 N 19.99 W Δt=5.0 d
21.82 N 19.98 W Δt=5.0 d
17.58 N 19.92 W Δt=5.0 d
14.79 N 17.63 W Δt=5.0 d

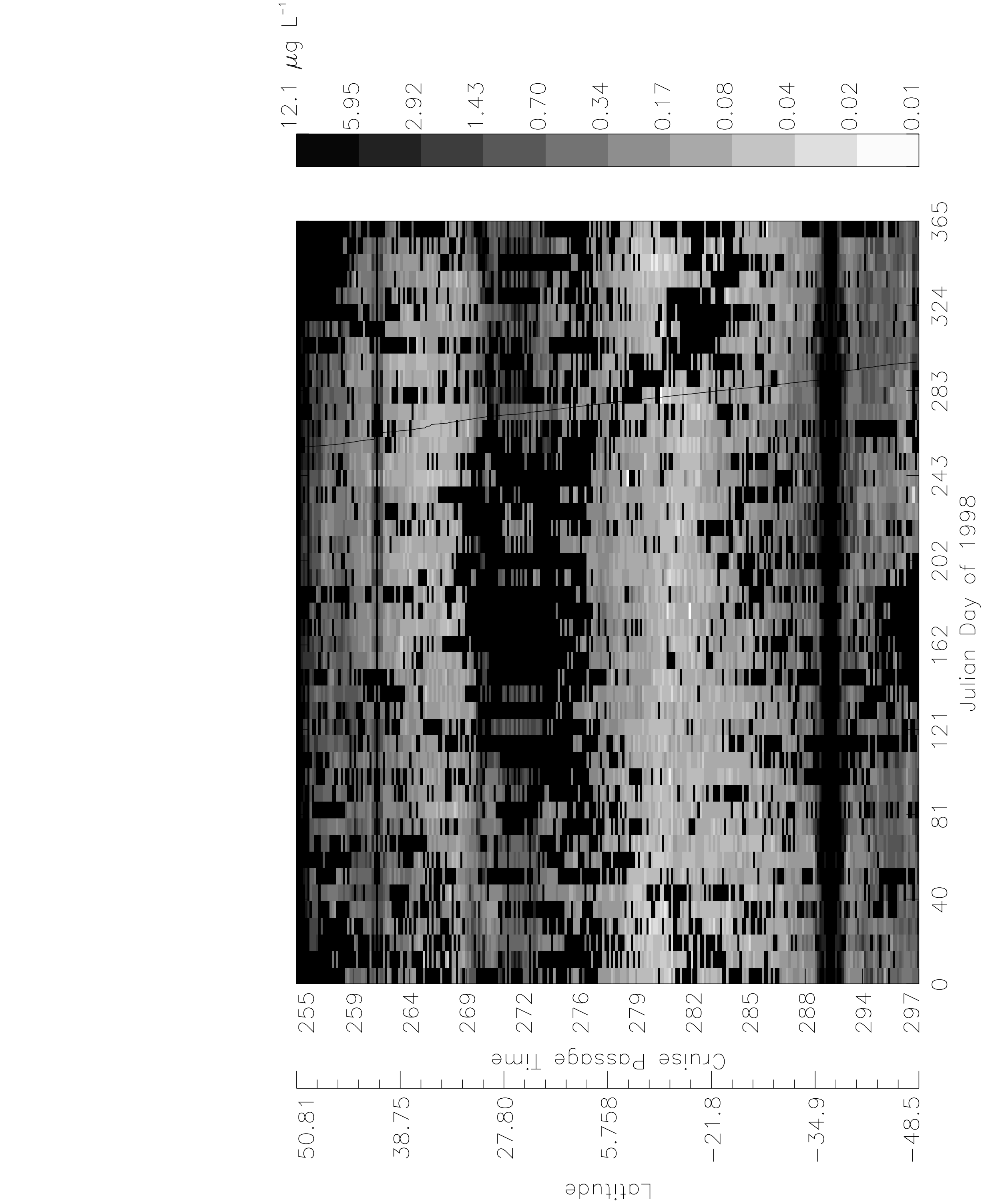


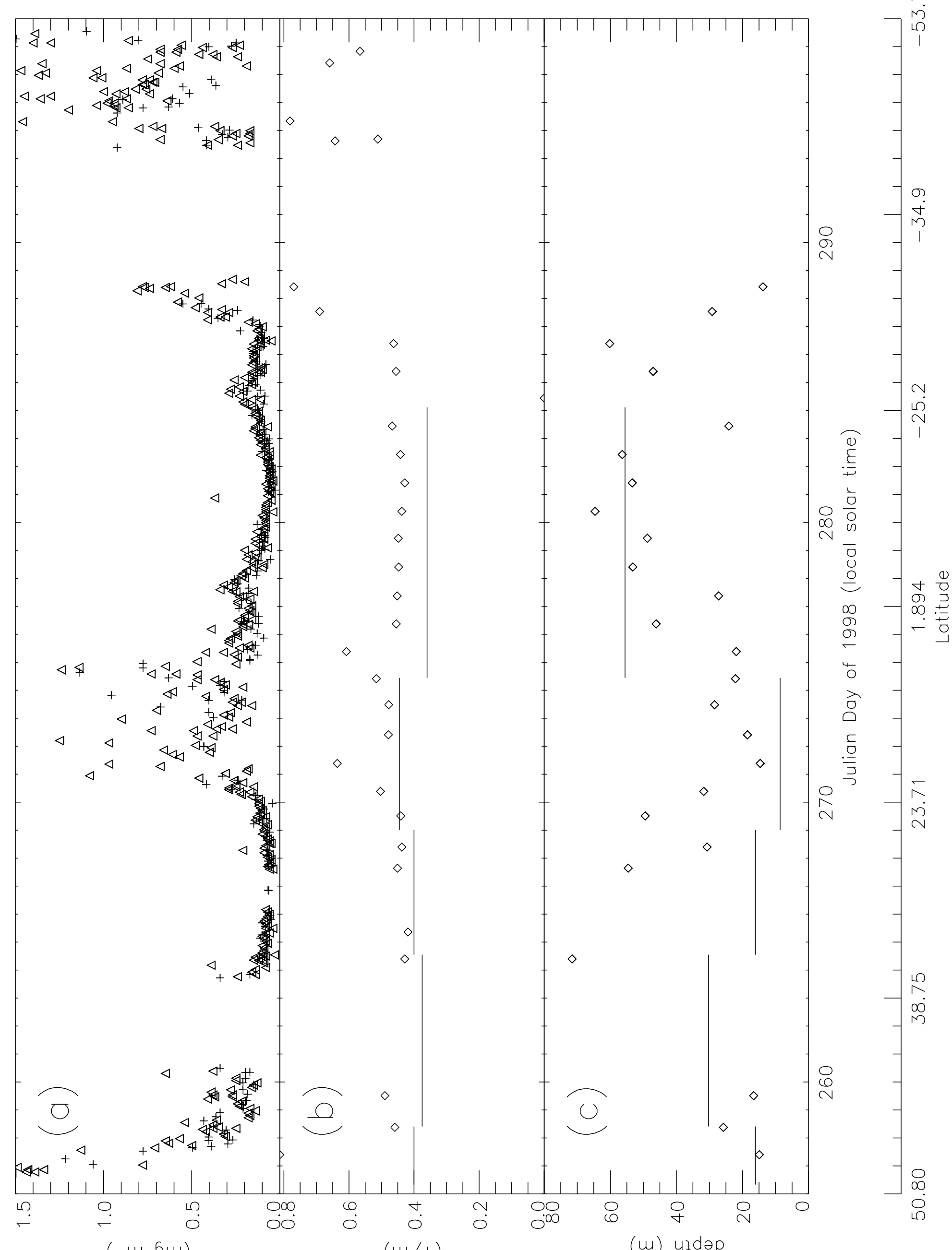

Optical Characteristics Equilibrator Teflon Construction Material
Decade Absorbance
2.5
2.0
1.5
1.0
0.5
0.0
Absorption Coefficient (1/m)
400
200
0
Wavelength (nm)
400
600
800
1000

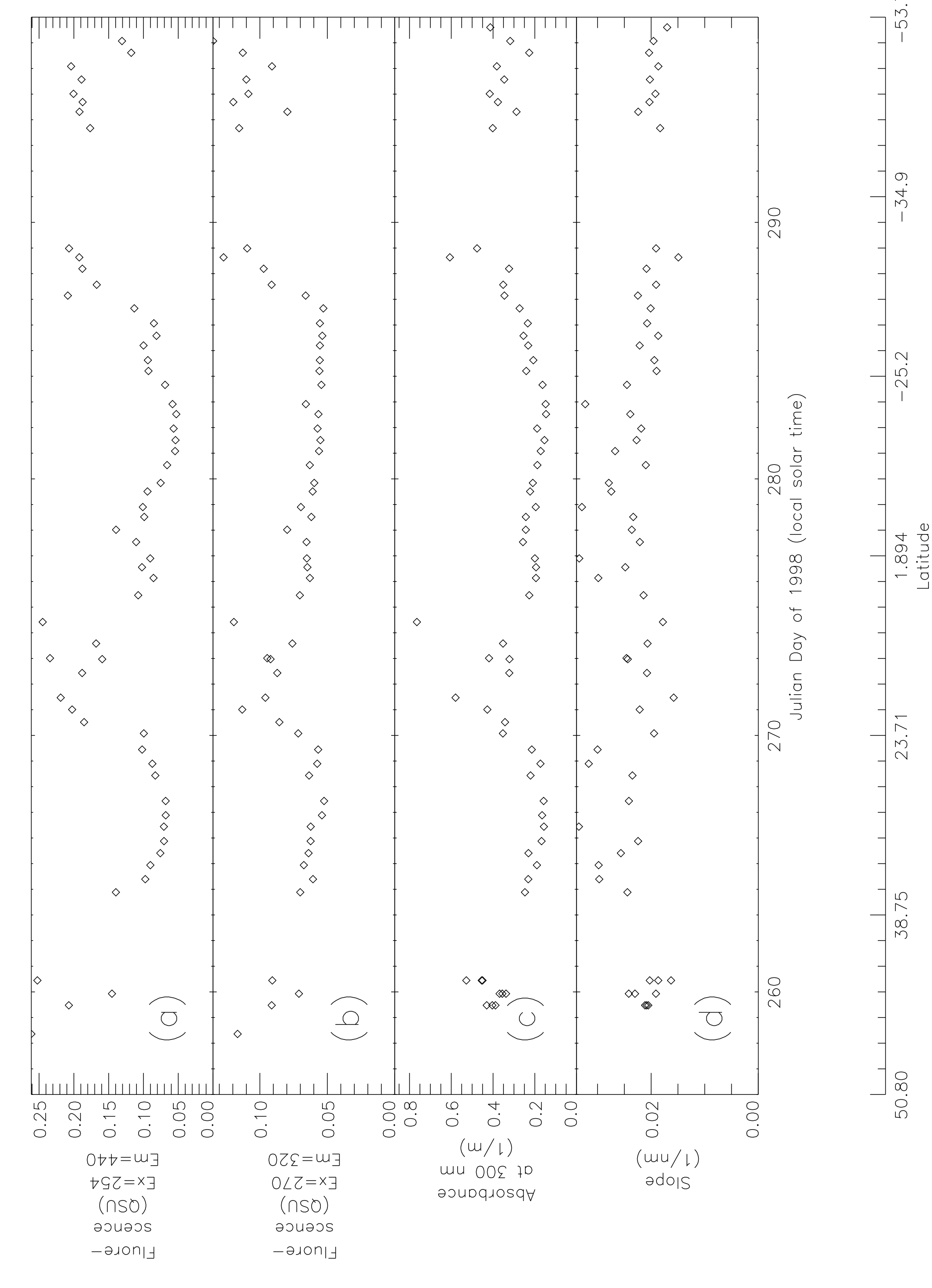

(a)
(b)
(c)
Insolation
(W m⁻²)
Integrated
Insolation
(MJ m⁻²)
Total
Heat Flux
(W m⁻²)
1000
500
0
20
0
-200
-400
-600
-800
260
270
280
290
Julian Day of 1998 (local solar time)
50.80
38.75
23.71
1.894
-25.2
-34.9
-53.7
Latitude

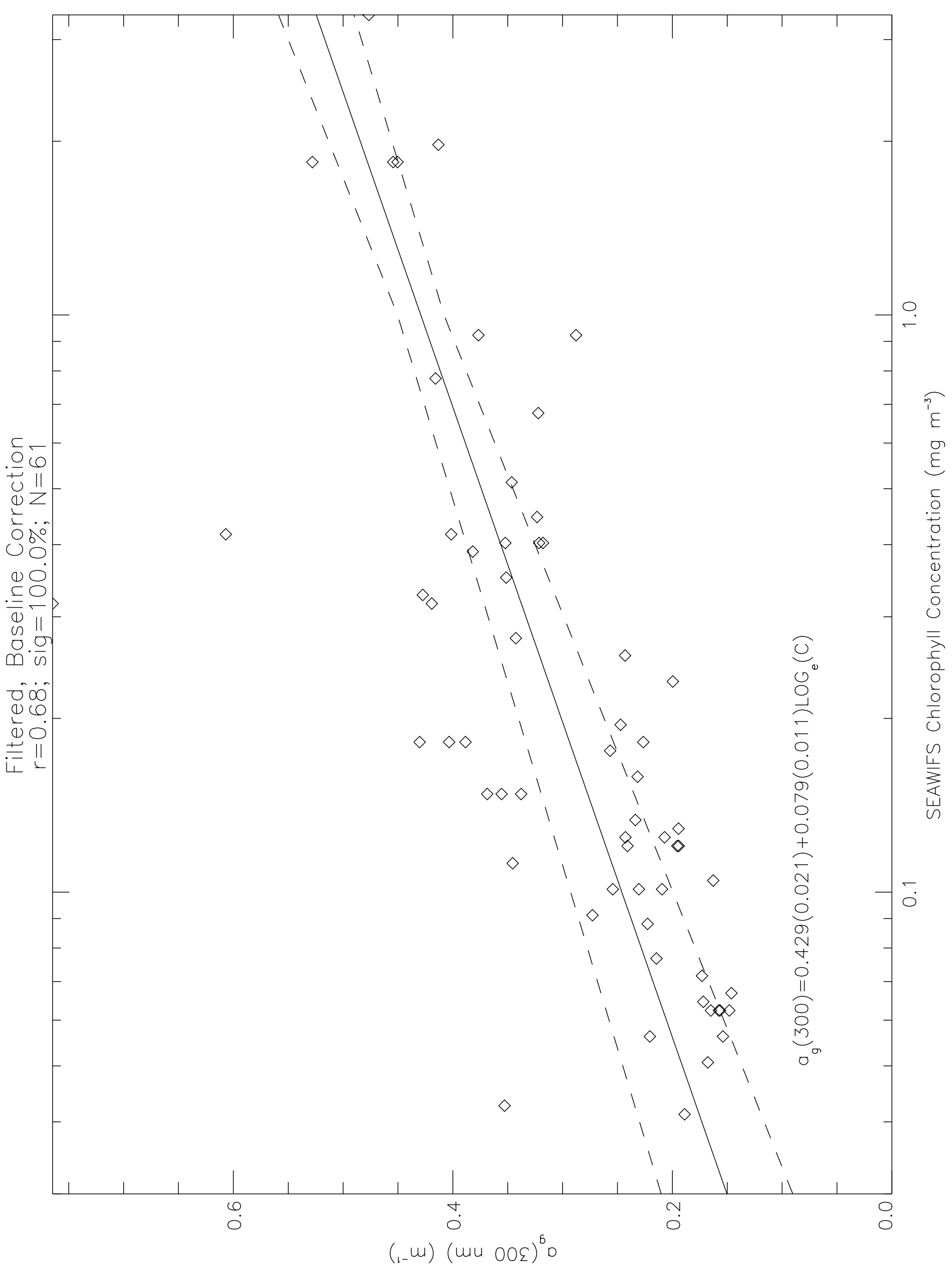

(d)
(e)
(f)
Cloud
Cover
(oktas)
Wind Speed
(m s⁻¹)
Total
Column
Ozone
(matm-cm)
Julian Day of 1998 (local solar time)
Latitude
260
270
280
290
50.80
38.75
23.71
1.894
-25.2
-34.9
-53.7


(a)
(b)
(c)
(d)
Temperature (°C)
Depth (m)
Salinity (ppt)
Depth (m)
5°C
1 ppt
Julian Day of 1998 (local solar time)
Latitude

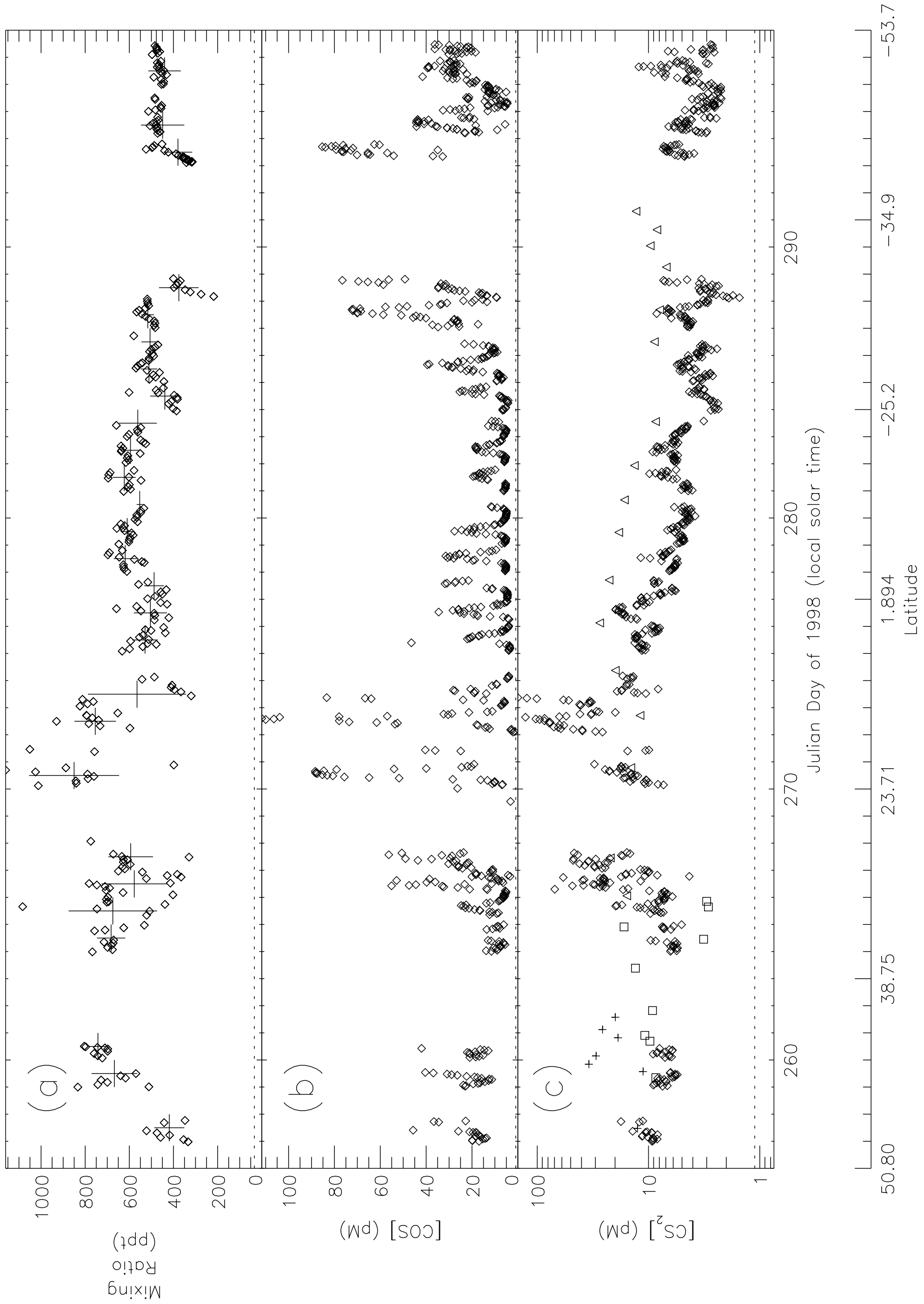

Latitude
50.81
38.75
27.80
5.758
−21.8
−34.9
−48.5
Cruise Passage Time
255
259
264
269
272
276
279
282
285
288
294
297
Julian Day of 1998
0
40
81
121
162
202
243
283
324
365
12.1 μg L^{-1}
5.95
2.92
1.43
0.70
0.34
0.17
0.08
0.04
0.02
0.01


(a)
(b)
(c)
Chloro-
phyll
(mg m⁻³)
Beam
Attenuation
Coefficient
at 660 nm
(1/m)
PAR
e-folding
depth (m)
Julian Day of 1998 (local solar time)
Latitude
260
270
280
290
50.80
38.75
23.71
1.894
-25.2
-34.9
-53.7

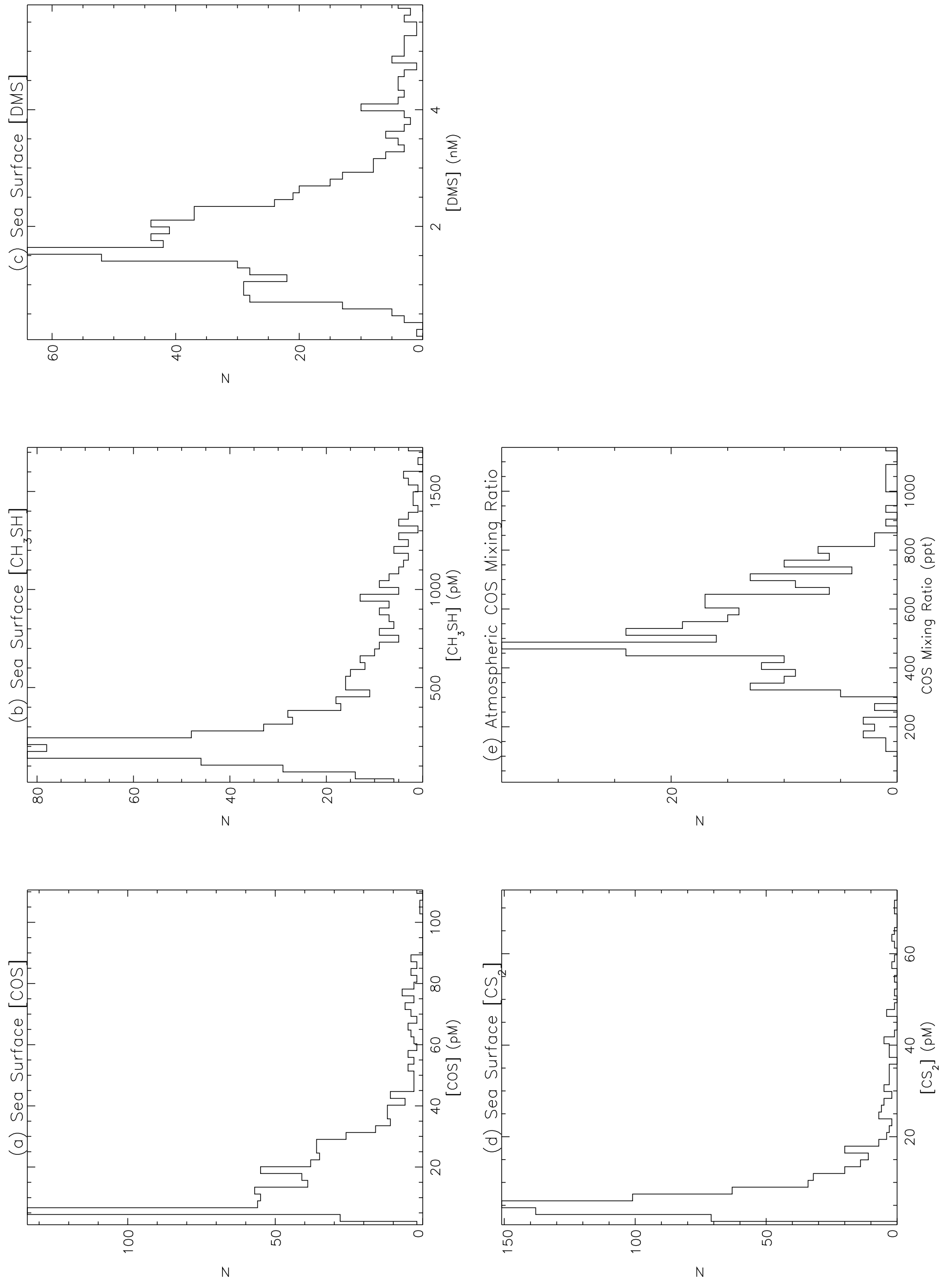

(a)
(b)
(c)
(d)
Fluore-
scence
(QSU)
Ex=254
Em=440
Fluore-
scence
(QSU)
Ex=270
Em=320
Absorbance
at 300 nm
(1/m)
Slope
(1/nm)
Julian Day of 1998 (local solar time)
Latitude
260
270
280
290
50.80
38.75
23.71
1.894
-25.2
-34.9
-53.7

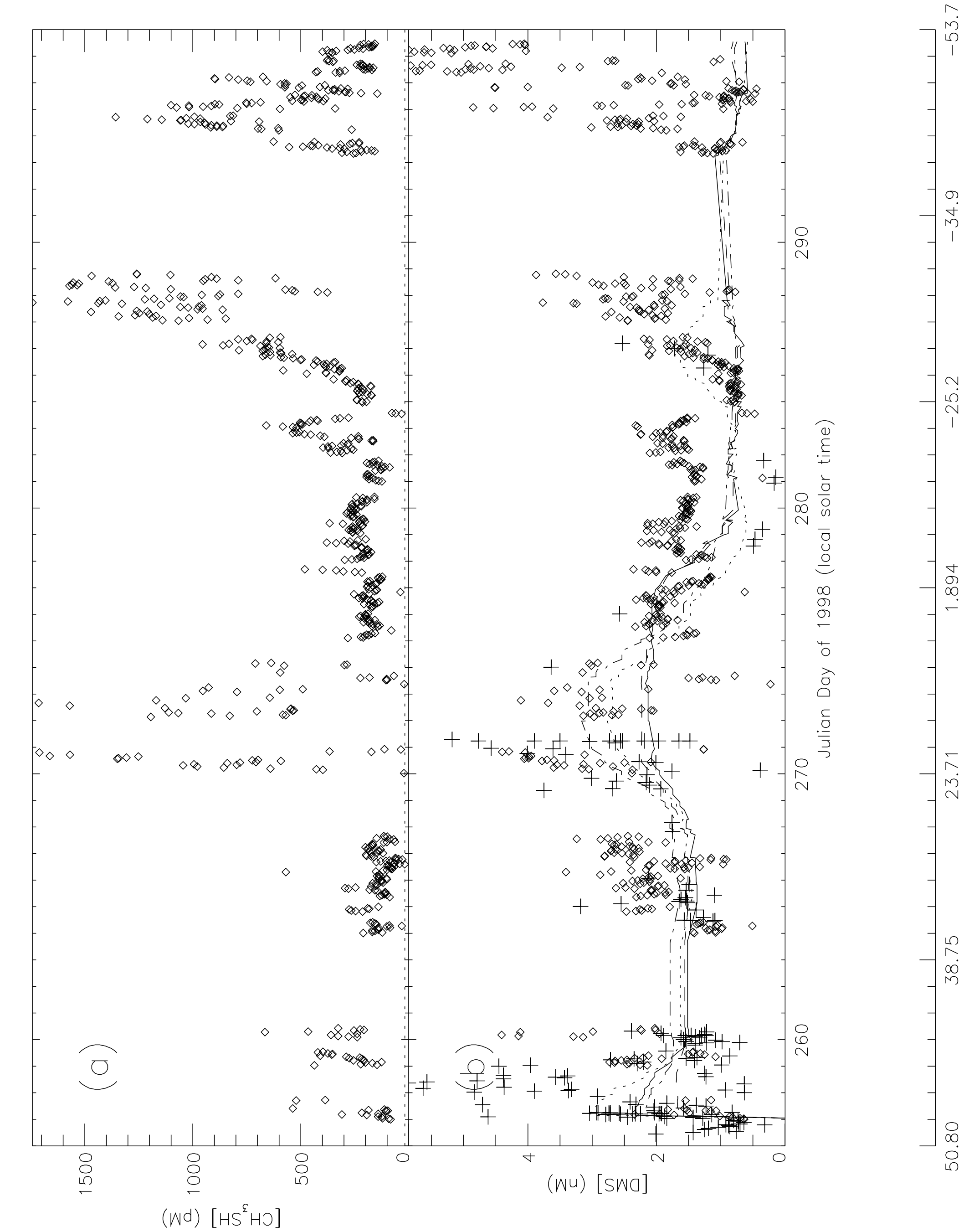


Filtered, Baseline Correction
r=0.68; sig=100.0%; N=61
$a_g(300)=0.429(0.021)+0.079(0.011)LOG_e(C)$
SEAWIFS Chlorophyll Concentration (mg m^{-3})
a_g(300 nm) (m^{-1})
0.1
1.0
0.0
0.2
0.4
0.6

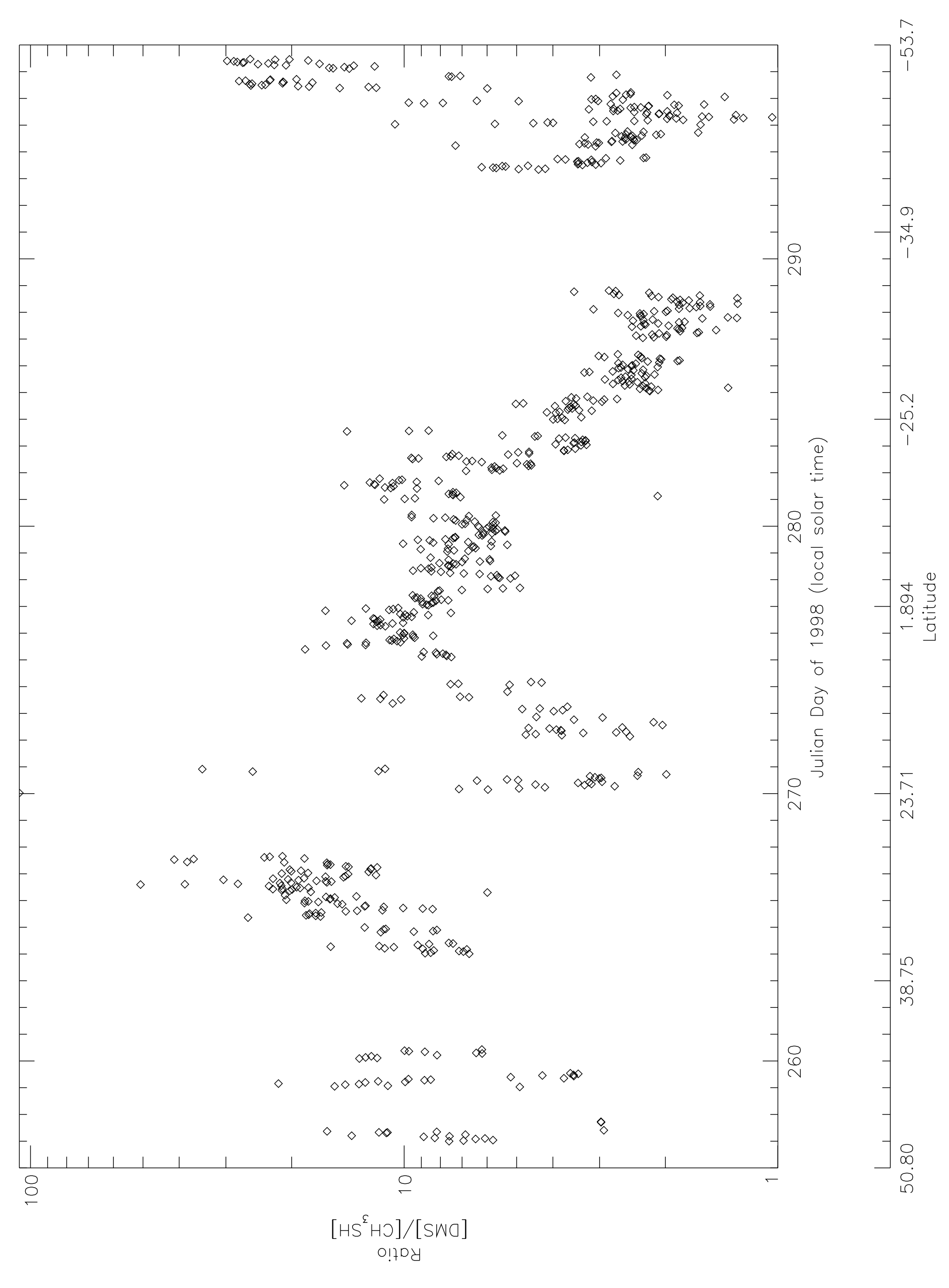


(a)
(b)
(c)
COS Mixing Ratio (ppt)
[COS] (pM)
[CS$_2$] (pM)
Julian Day of 1998 (local solar time)
Latitude
260
270
280
290
50.80
38.75
23.71
1.894
−25.2
−34.9
−53.7

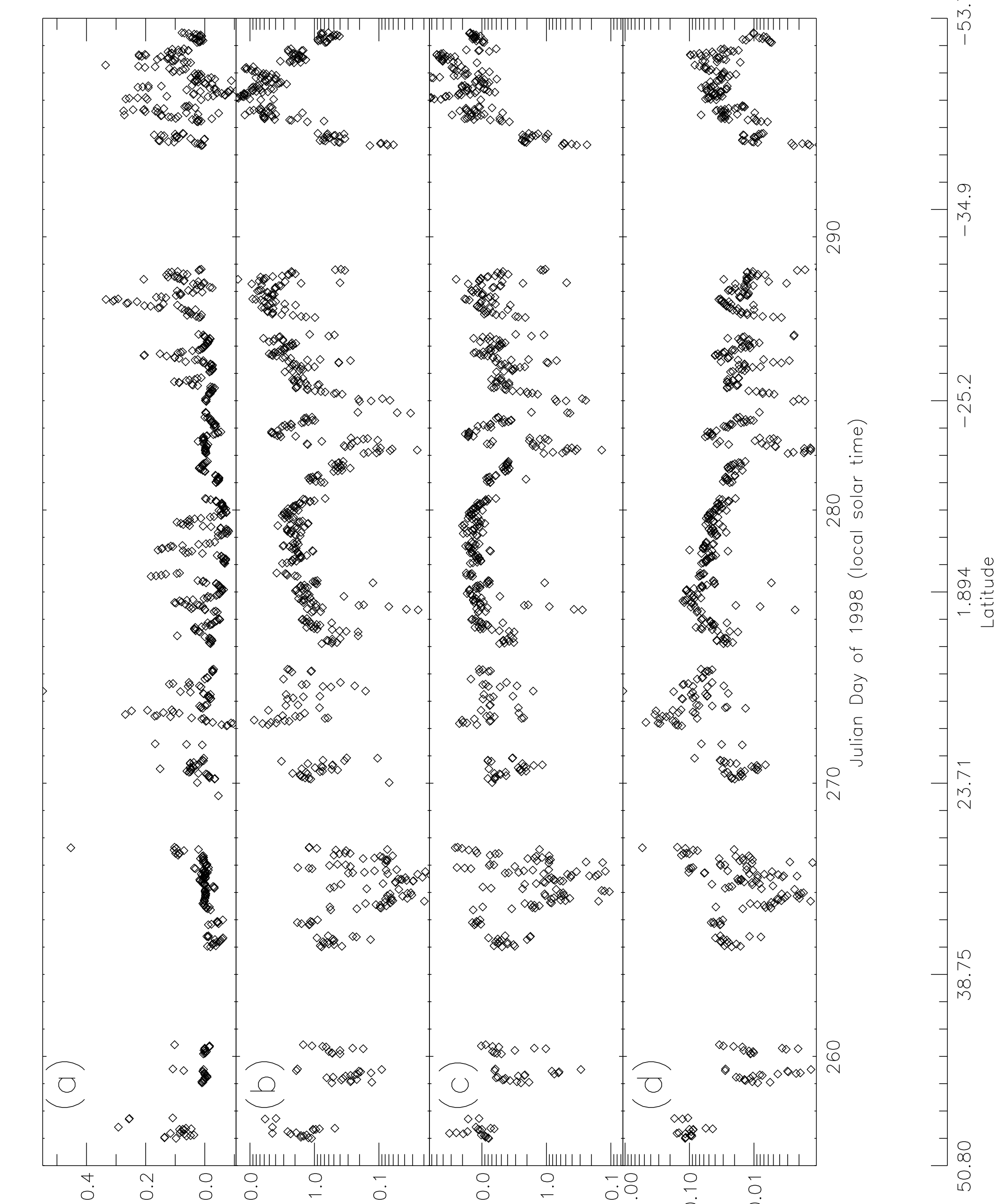

(a) Sea Surface [COS]
[COS] (pM)
N
(b) Sea Surface [CH3SH]
[CH3SH] (pM)
N
(c) Sea Surface [DMS]
[DMS] (nM)
N
(d) Sea Surface [CS2]
[CS2] (pM)
N
(e) Atmospheric COS Mixing Ratio
COS Mixing Ratio (ppt)
N

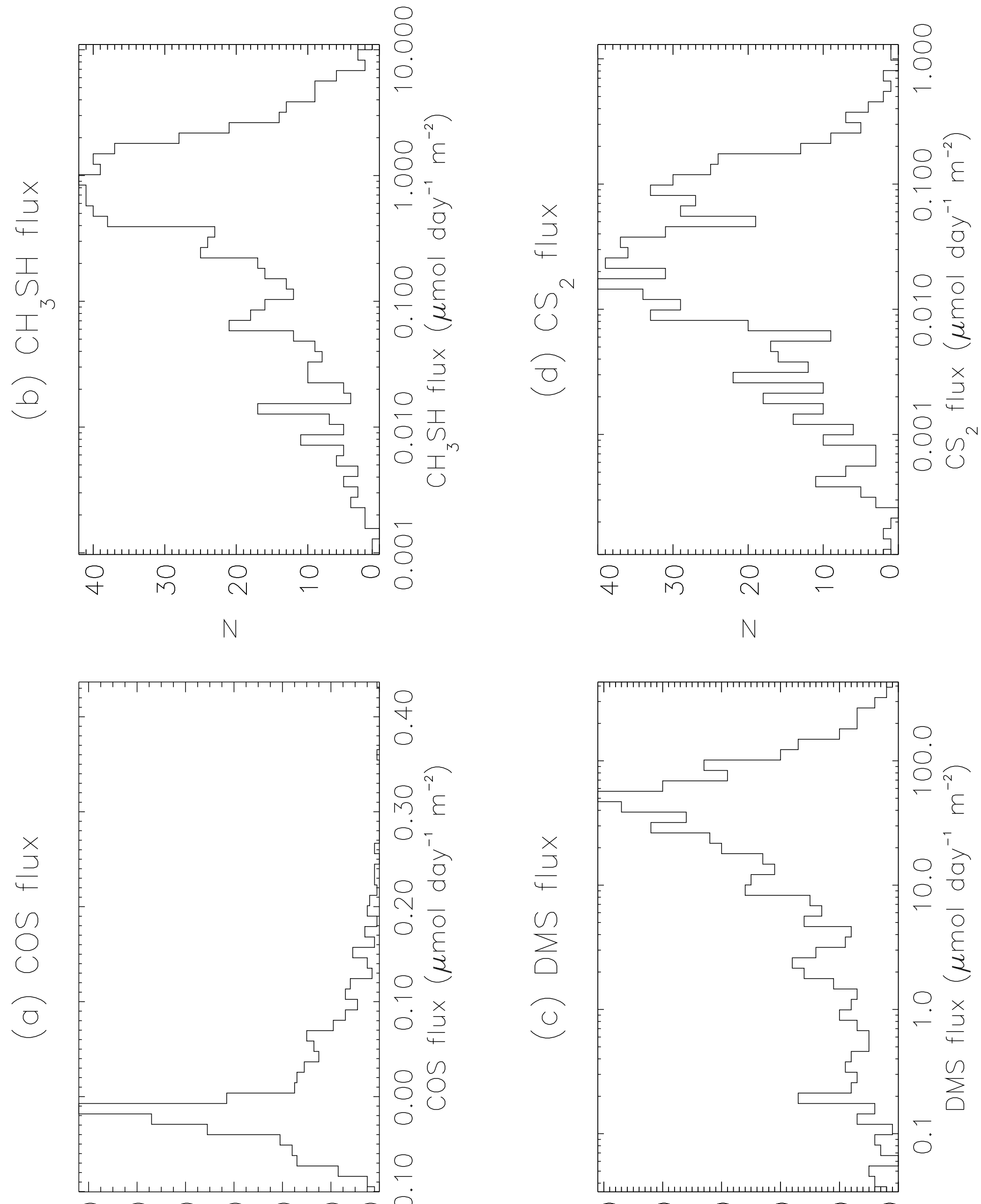


(a)
(b)
[CH$_3$SH] (pM)
1500
1000
500
0
[DMS] (nM)
4
2
0
260
270
280
290
Julian Day of 1998 (local solar time)
50.80
38.75
23.71
1.894
−25.2
−34.9
−53.7
Latitude



Ratio
[DMS]/[CH$_3$SH]
100
10
1
Julian Day of 1998 (local solar time)
260
270
280
290
Latitude
50.80
38.75
23.71
1.894
−25.2
−34.9
−53.7


(a)
(b)
(c)
(d)
COS
Flux
(nmol m⁻²
day⁻¹)
CH3SH
Flux
(µmol m⁻²
day⁻¹)
DMS
Flux
(µmol m⁻²
day⁻¹)
CS2
Flux
(nmol m⁻²
day⁻¹)
Julian Day of 1998 (local solar time)
Latitude


(a) COS flux
COS flux (μmol day⁻¹ m⁻²)
N
(b) CH3SH flux
CH3SH flux (μmol day⁻¹ m⁻²)
N
(c) DMS flux
DMS flux (μmol day⁻¹ m⁻²)
N
(d) CS2 flux
CS2 flux (μmol day⁻¹ m⁻²)
N