Temperature misfits between ECCO estimates and Argo profiles.

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March 25, 2008

The following figures show time-mean misfits between current ECCO estimates and Argo profiles, computed for the Argo-rich period from 2004 to 2006. The four estimates are ECCO-GODAE version 2 iteration 216, ECCO-GODAE version 3 iteration 35, ECCO2 blend 78, and OCCA. They are respectively labelled ECCO1.2, ECCO1.3, ECCO2, and OCCA in the illustrations. Computations are all done for a monthly mean atlas (2004-2006 period) with a one degree resolution, to simplify comparison of the results.

List of Figures

1 T 15m. 2
2 T 45m. 3
3 T 95m. 4
4 T 135m. 5
5 T 200m. 6
6 T 300m. 7
7 T 450m. 8
8 T 600m. 9
9 T 800m. 10
10 T 1000m. 11
11 T 1200m. 12
12 T 1500m. 13
13 T 1800m. 14

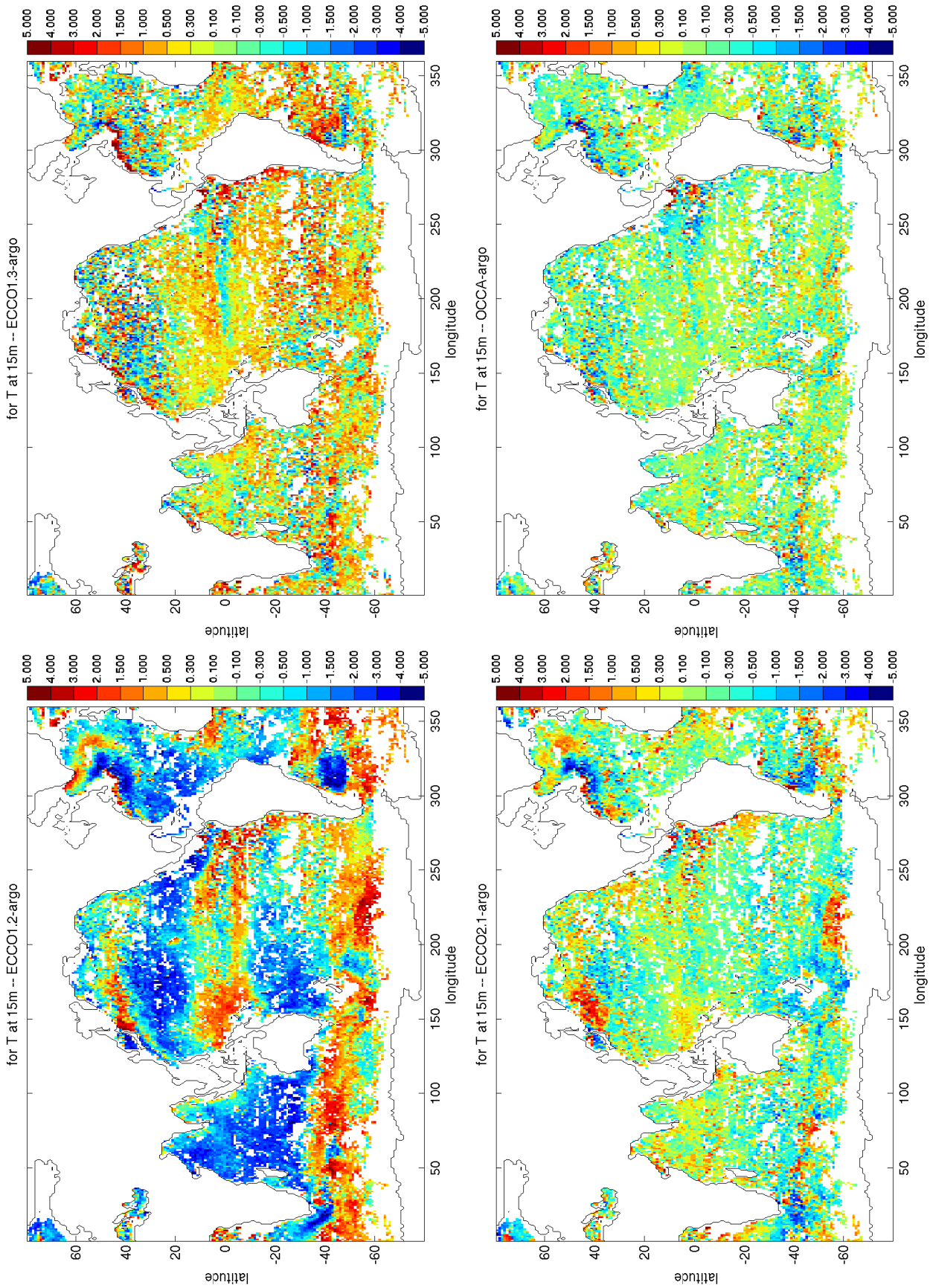
for T at 15m -- ECCO1.2-argo
for T at 15m -- ECCO1.3-argo
for T at 15m -- ECCO2.1-argo
for T at 15m -- OCCA-argo
latitude
longitude
5.000
4.000
3.000
2.000
1.500
1.000
0.500
0.300
0.100
-0.100
-0.300
-0.500
-1.000
-1.500
-2.000
-3.000
-4.000
-5.000

FIG. 1. T 15m.

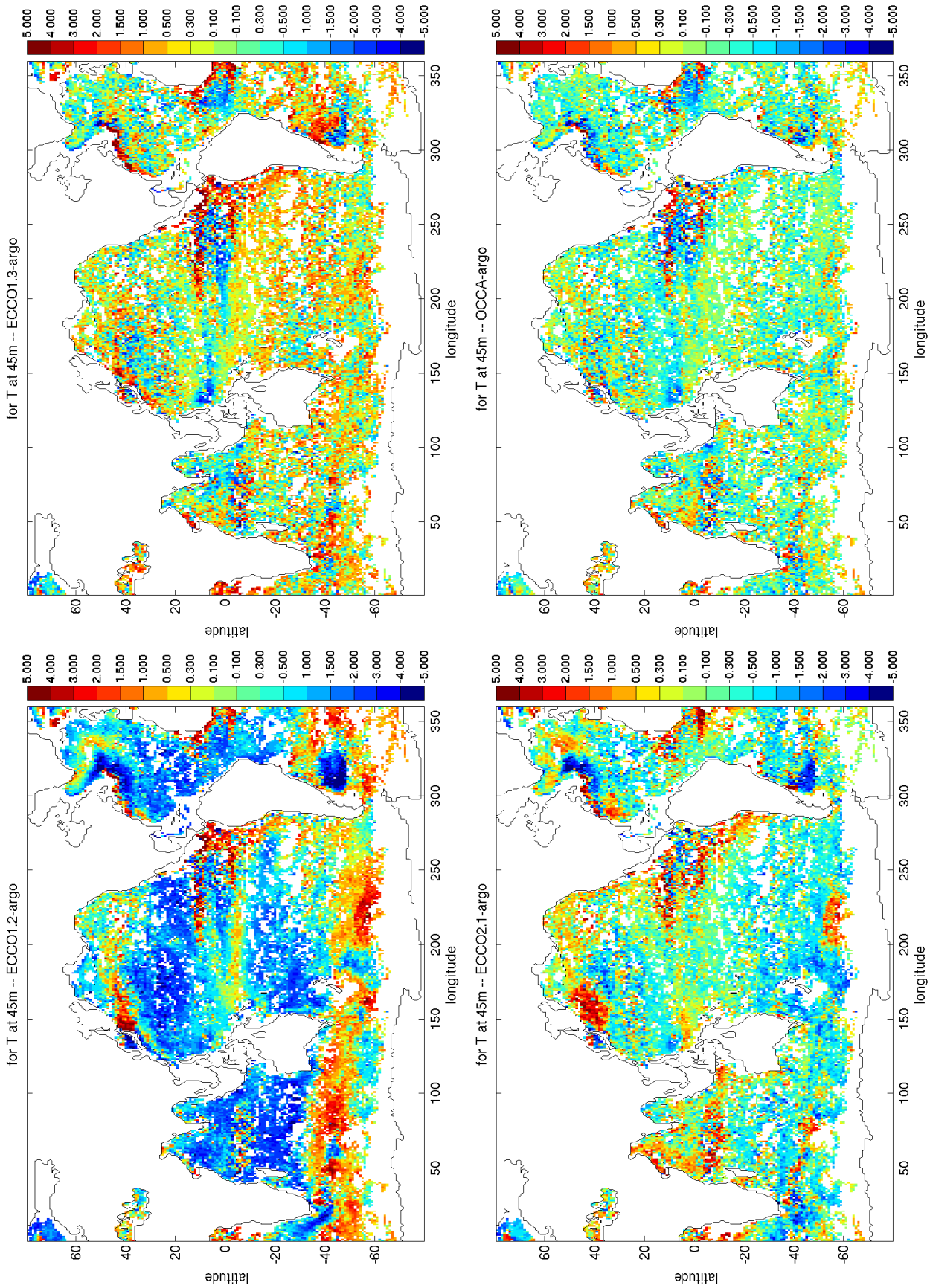
for T at 45m -- ECCO1.3-argo
for T at 45m -- OCCA-argo
for T at 45m -- ECCO1.2-argo
for T at 45m -- ECCO2.1-argo
latitude
longitude
5.000
4.000
3.000
2.000
1.500
1.000
0.500
0.300
0.100
-0.100
-0.300
-0.500
-1.000
-1.500
-2.000
-3.000
-4.000
-5.000

FIG. 2. T 45m.

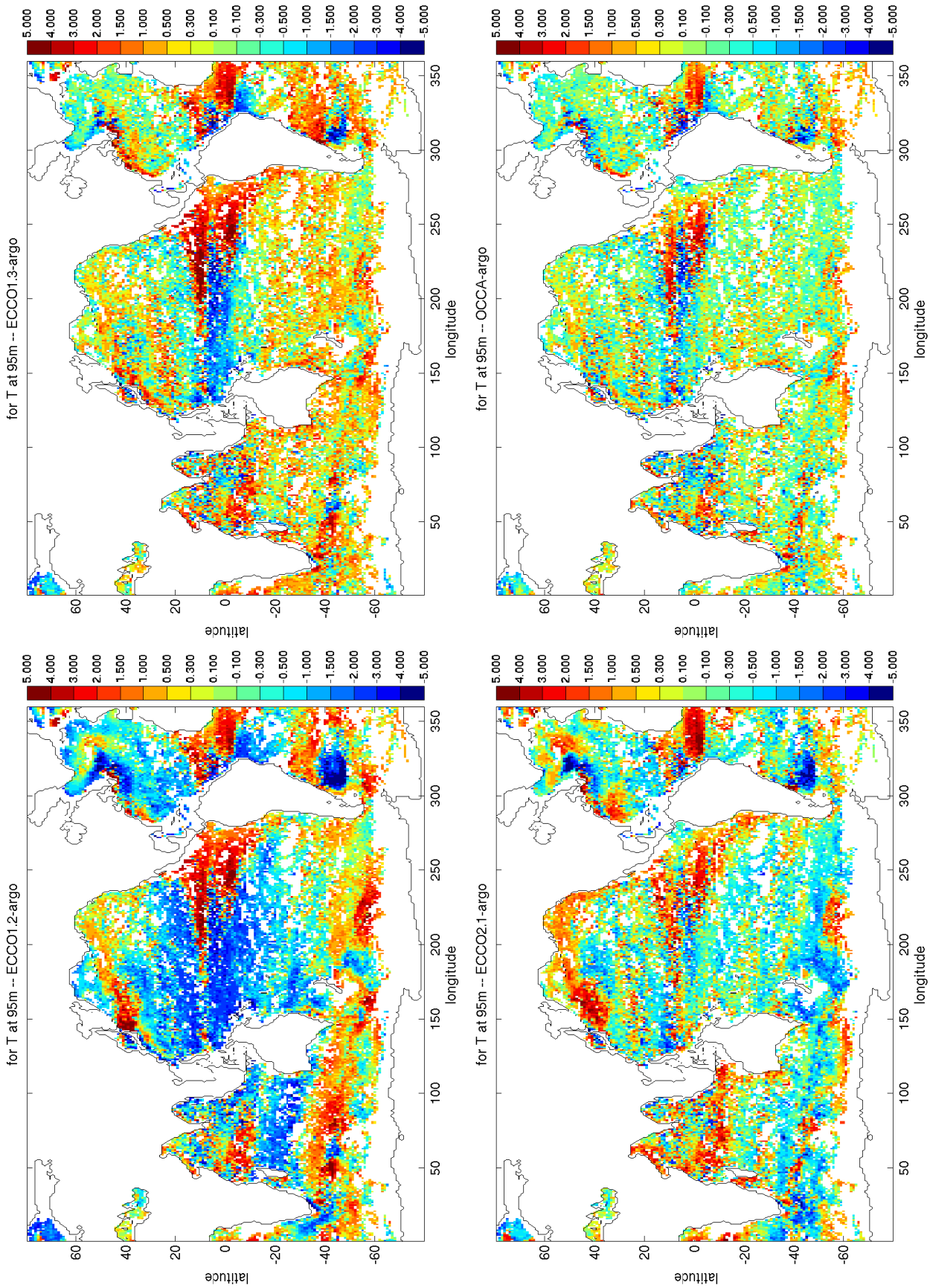
for T at 95m -- ECCO1.3-argo
for T at 95m -- OCCA-argo
for T at 95m -- ECCO1.2-argo
for T at 95m -- ECCO2.1-argo
latitude
longitude
5.000
4.000
3.000
2.000
1.500
1.000
0.500
0.300
0.100
-0.100
-0.300
-0.500
-1.000
-1.500
-2.000
-3.000
-4.000
-5.000

FIG. 3. T 95m.

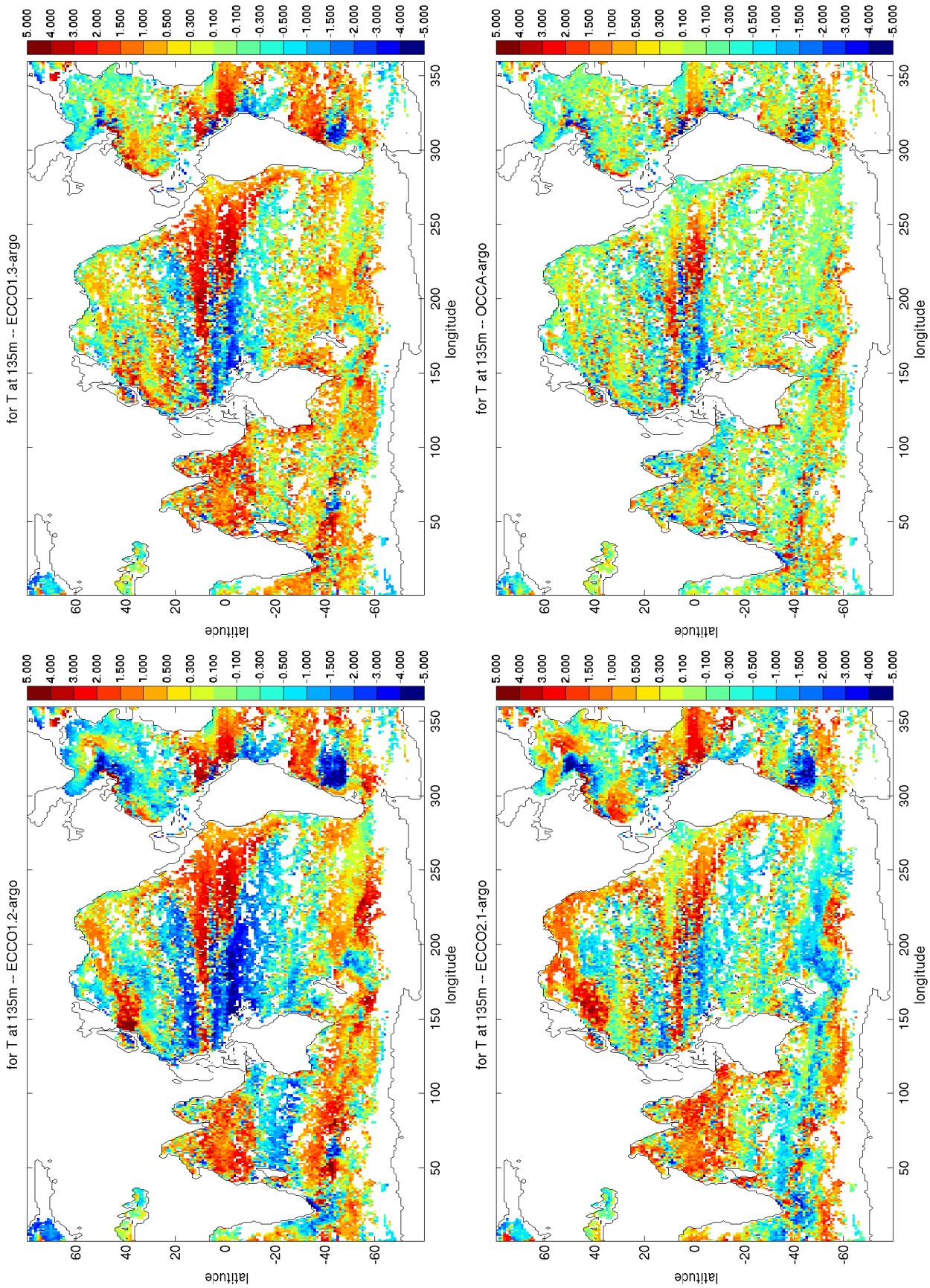
for T at 135m -- ECCO1.3-argo
for T at 135m -- OCCA-argo
for T at 135m -- ECCO1.2-argo
for T at 135m -- ECCO2.1-argo
latitude
longitude
5.000
4.000
3.000
2.000
1.500
1.000
0.500
0.300
0.100
-0.100
-0.300
-0.500
-1.000
-1.500
-2.000
-3.000
-4.000
-5.000

FIG. 4. T 135m.

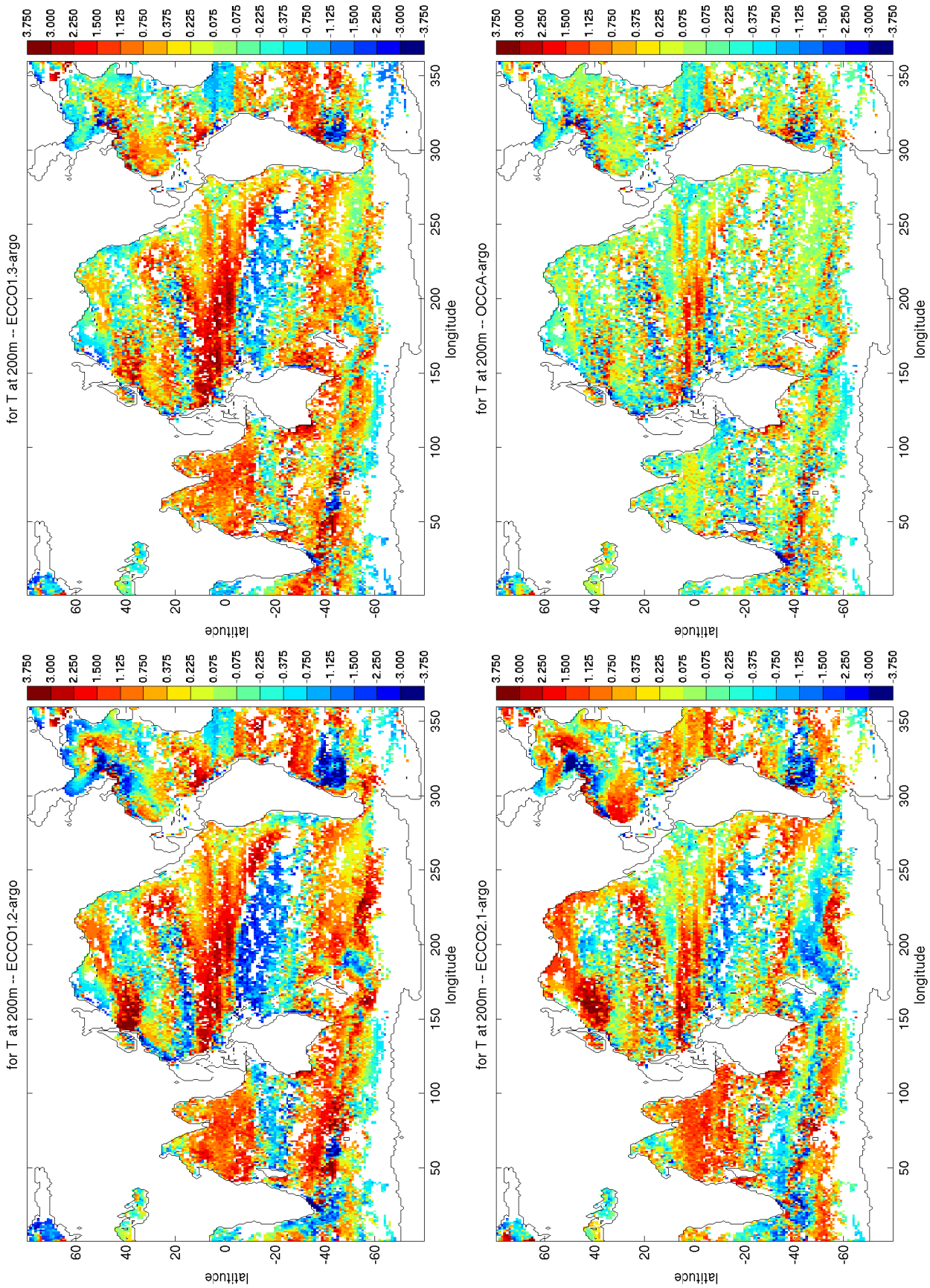
for T at 200m -- ECCO1.3-argo
for T at 200m -- OCCA-argo
for T at 200m -- ECCO1.2-argo
for T at 200m -- ECCO2.1-argo
latitude
longitude
3.750
3.000
2.250
1.500
1.125
0.750
0.375
0.225
0.075
-0.075
-0.225
-0.375
-0.750
-1.125
-1.500
-2.250
-3.000
-3.750

FIG. 5. T 200m.

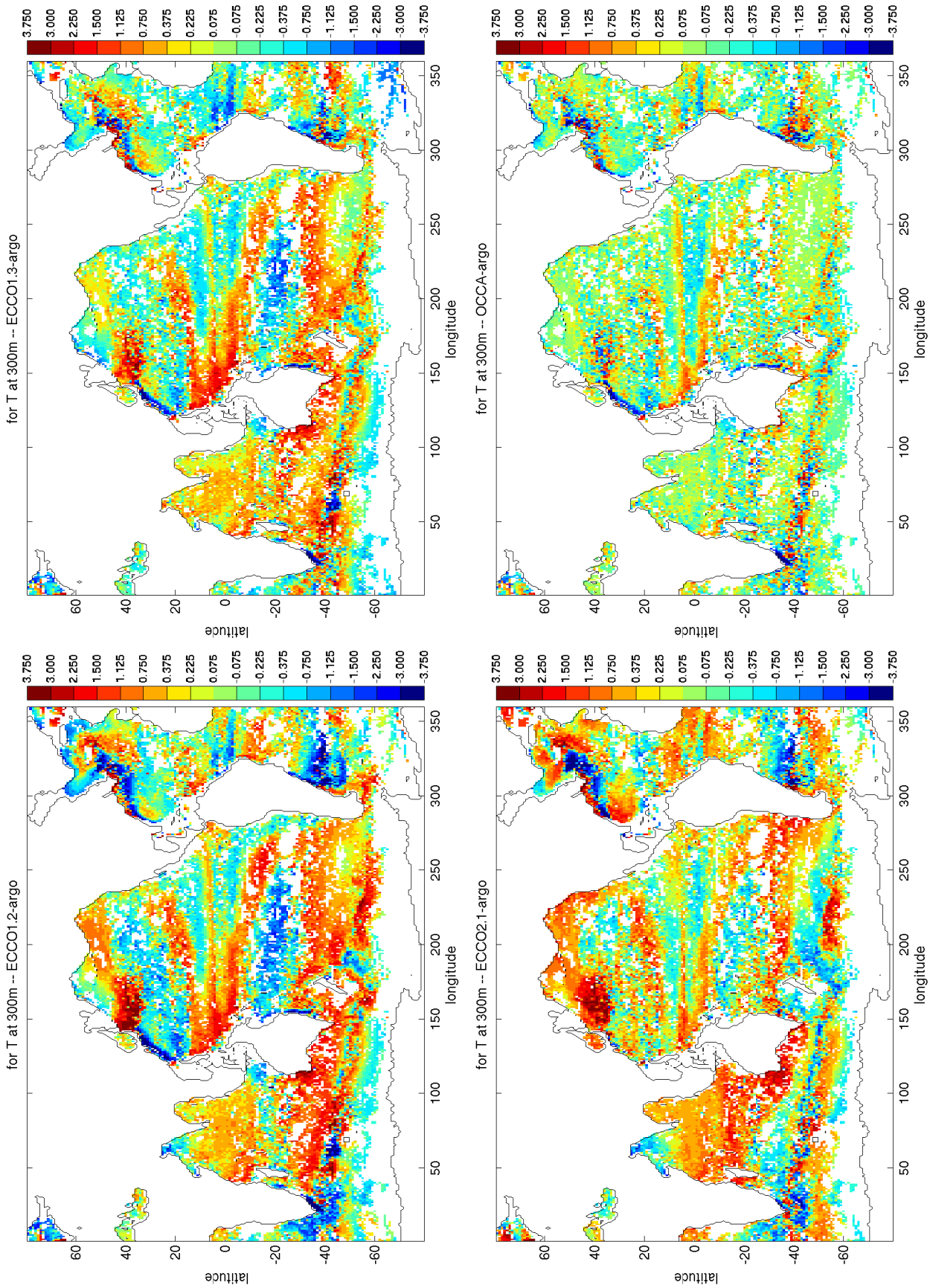
for T at 300m -- ECCO1.2-argo
for T at 300m -- ECCO1.3-argo
for T at 300m -- ECCO2.1-argo
for T at 300m -- OCCA-argo
latitude
longitude
3.750
3.000
2.250
1.500
1.125
0.750
0.375
0.225
0.075
-0.075
-0.225
-0.375
-0.750
-1.125
-1.500
-2.250
-3.000
-3.750

FIG. 6. T 300m.

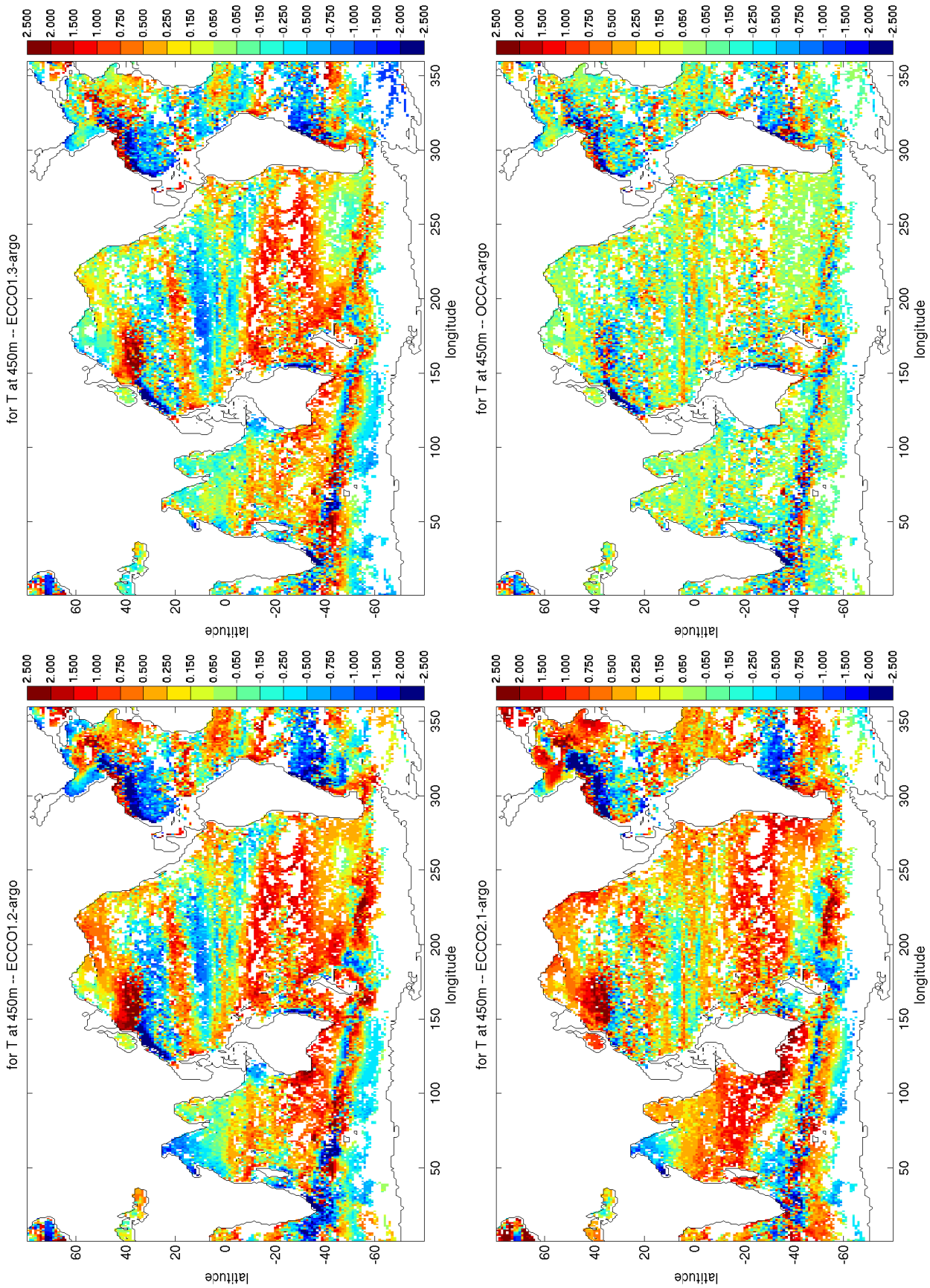
for T at 450m -- ECCO1.3-argo
for T at 450m -- OCCA-argo
for T at 450m -- ECCO1.2-argo
for T at 450m -- ECCO2.1-argo
latitude
longitude
2.500
2.000
1.500
1.000
0.750
0.500
0.250
0.150
0.050
-0.050
-0.150
-0.250
-0.500
-0.750
-1.000
-1.500
-2.000
-2.500

FIG. 7. T 450m.

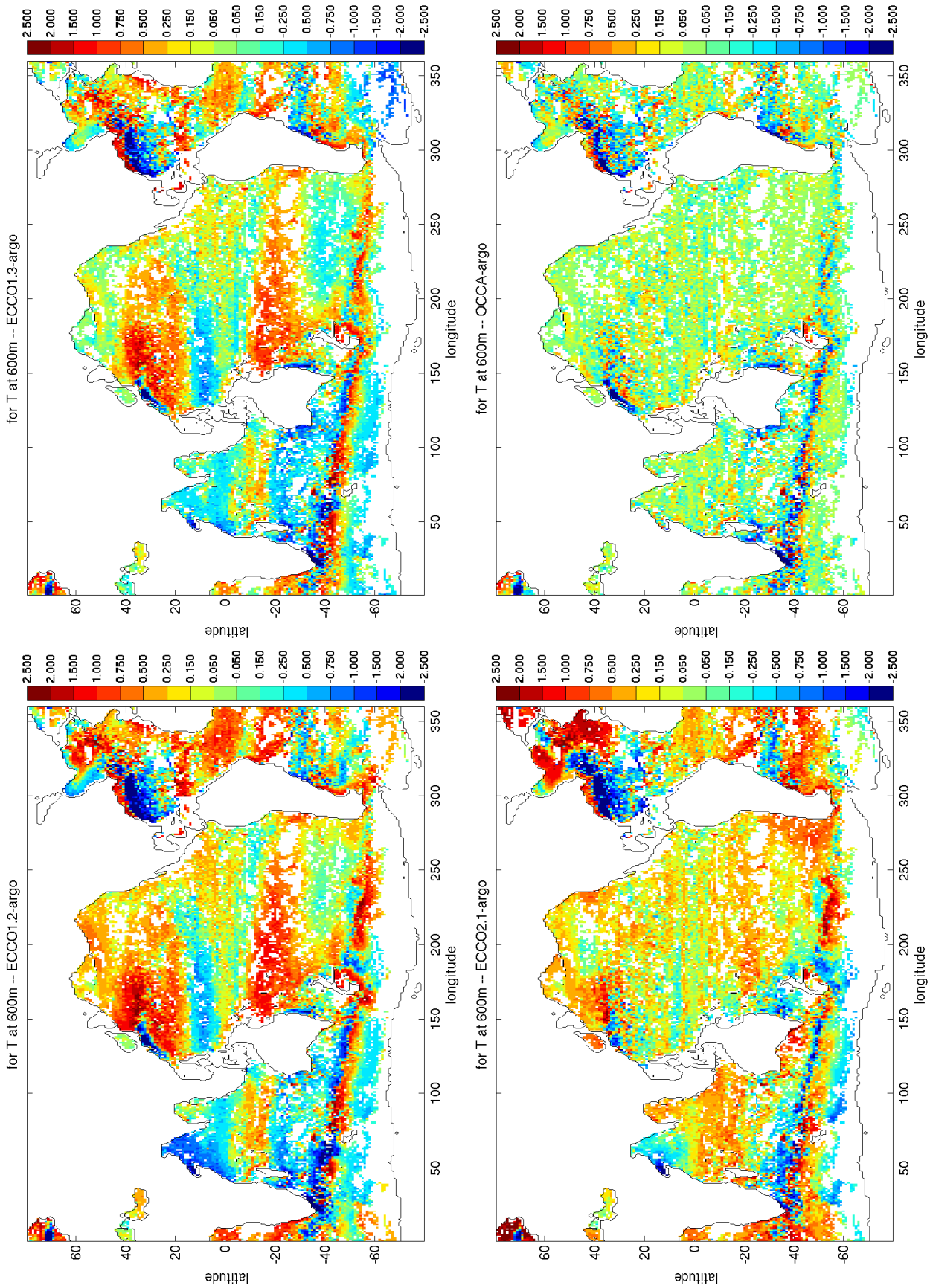
for T at 600m -- ECCO1.3-argo
for T at 600m -- OCCA-argo
for T at 600m -- ECCO1.2-argo
for T at 600m -- ECCO2.1-argo
latitude
longitude
2.500
2.000
1.500
1.000
0.750
0.500
0.250
0.150
0.050
-0.050
-0.150
-0.250
-0.500
-0.750
-1.000
-1.500
-2.000
-2.500

FIG. 8. T 600m.

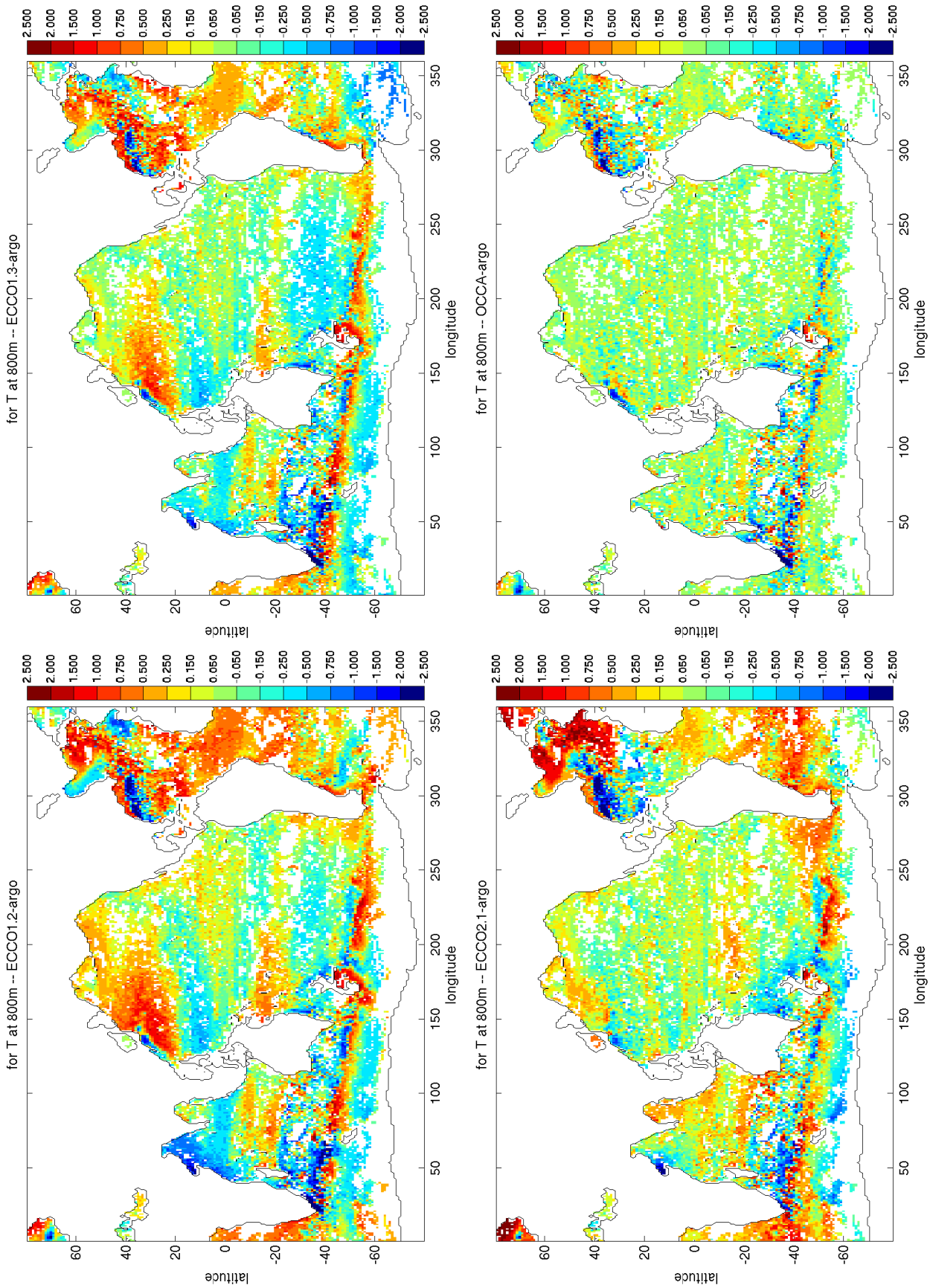
for T at 800m -- ECCO1.2-argo
for T at 800m -- ECCO1.3-argo
for T at 800m -- ECCO2.1-argo
for T at 800m -- OCCA-argo
latitude
longitude
2.500
2.000
1.500
1.000
0.750
0.500
0.250
0.150
0.050
-0.050
-0.150
-0.250
-0.500
-0.750
-1.000
-1.500
-2.000
-2.500

FIG. 9. T 800m.

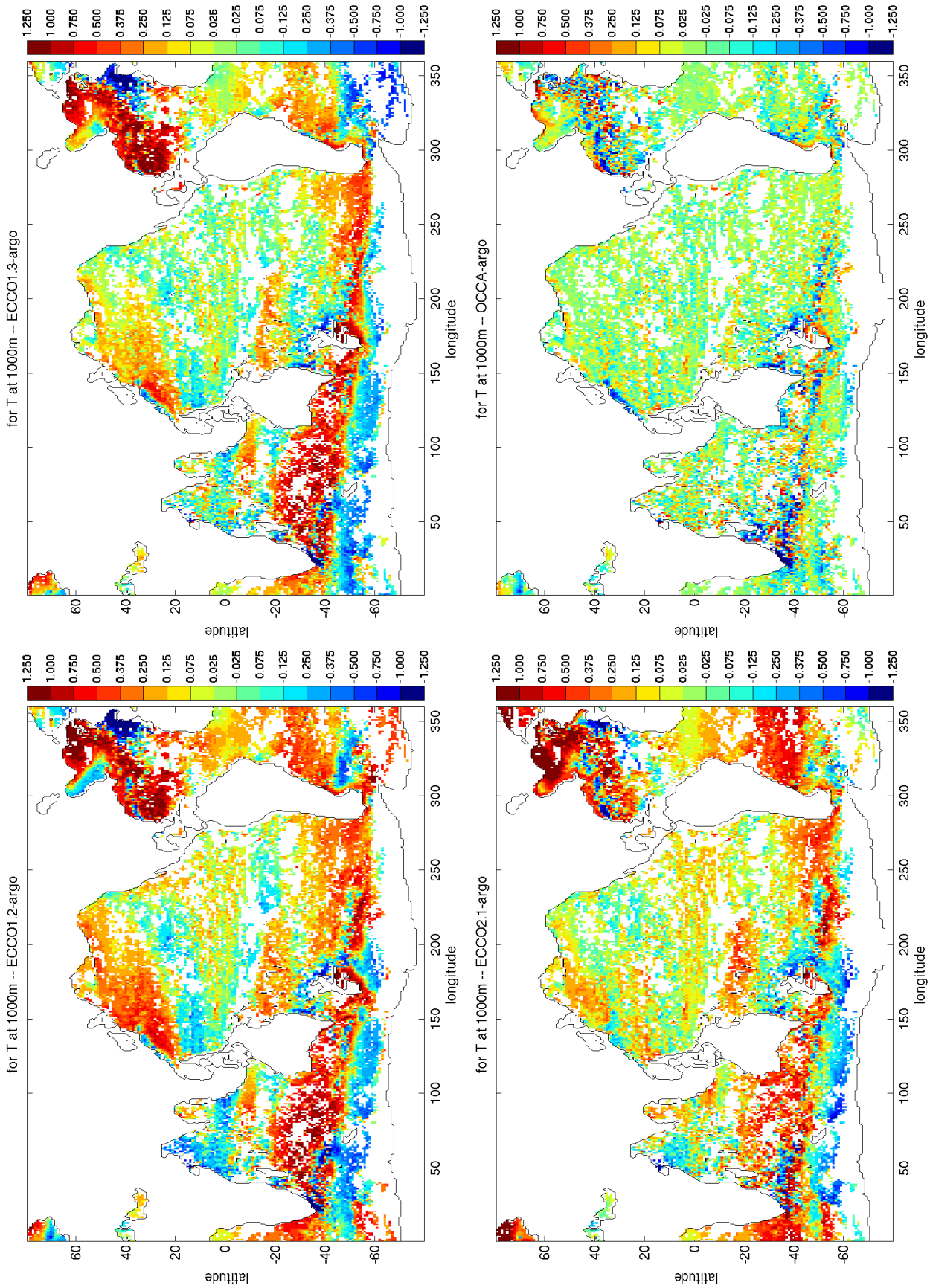

FIG. 10. T 1000m.

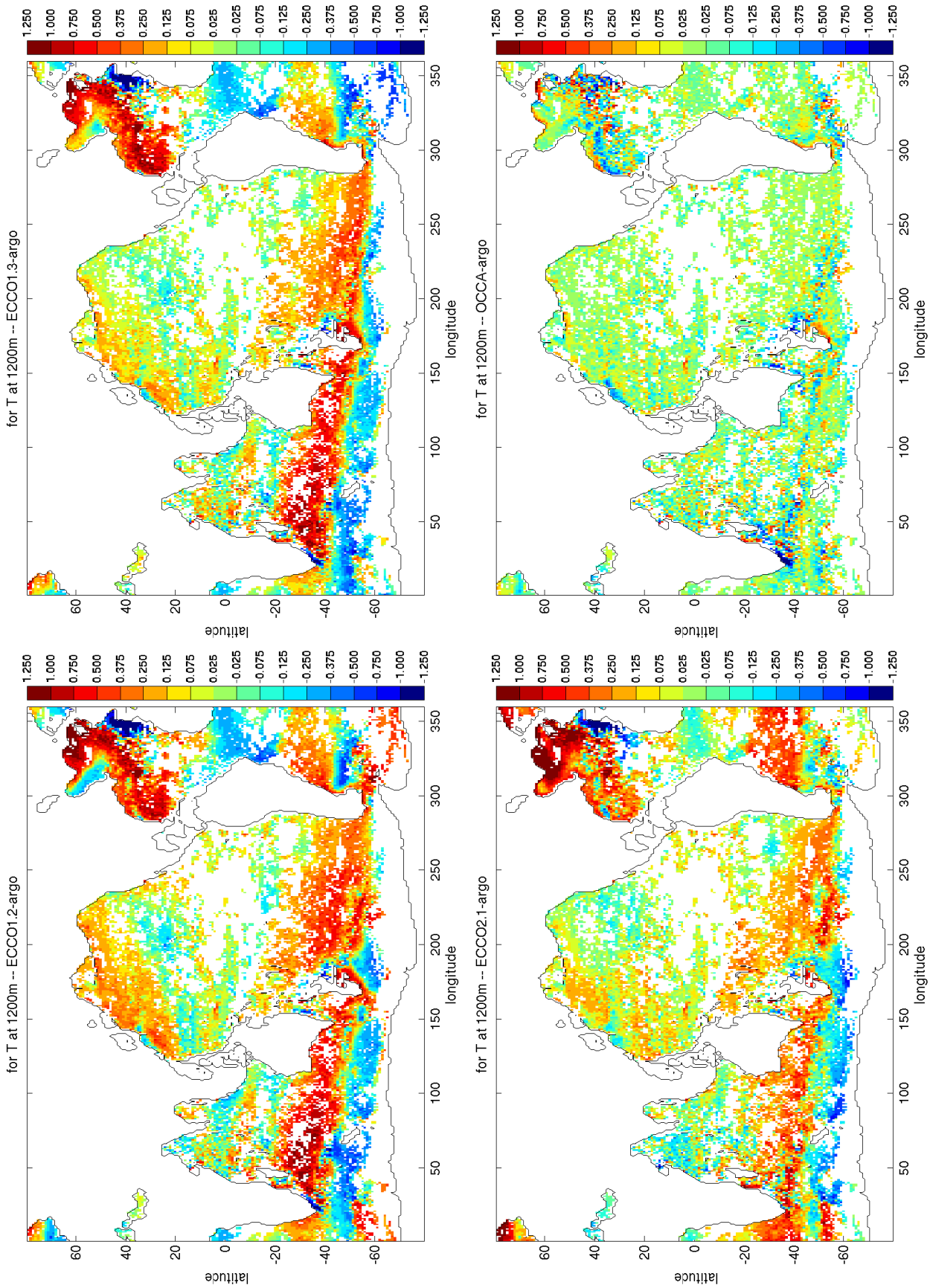

FIG. 11. T 1200m.

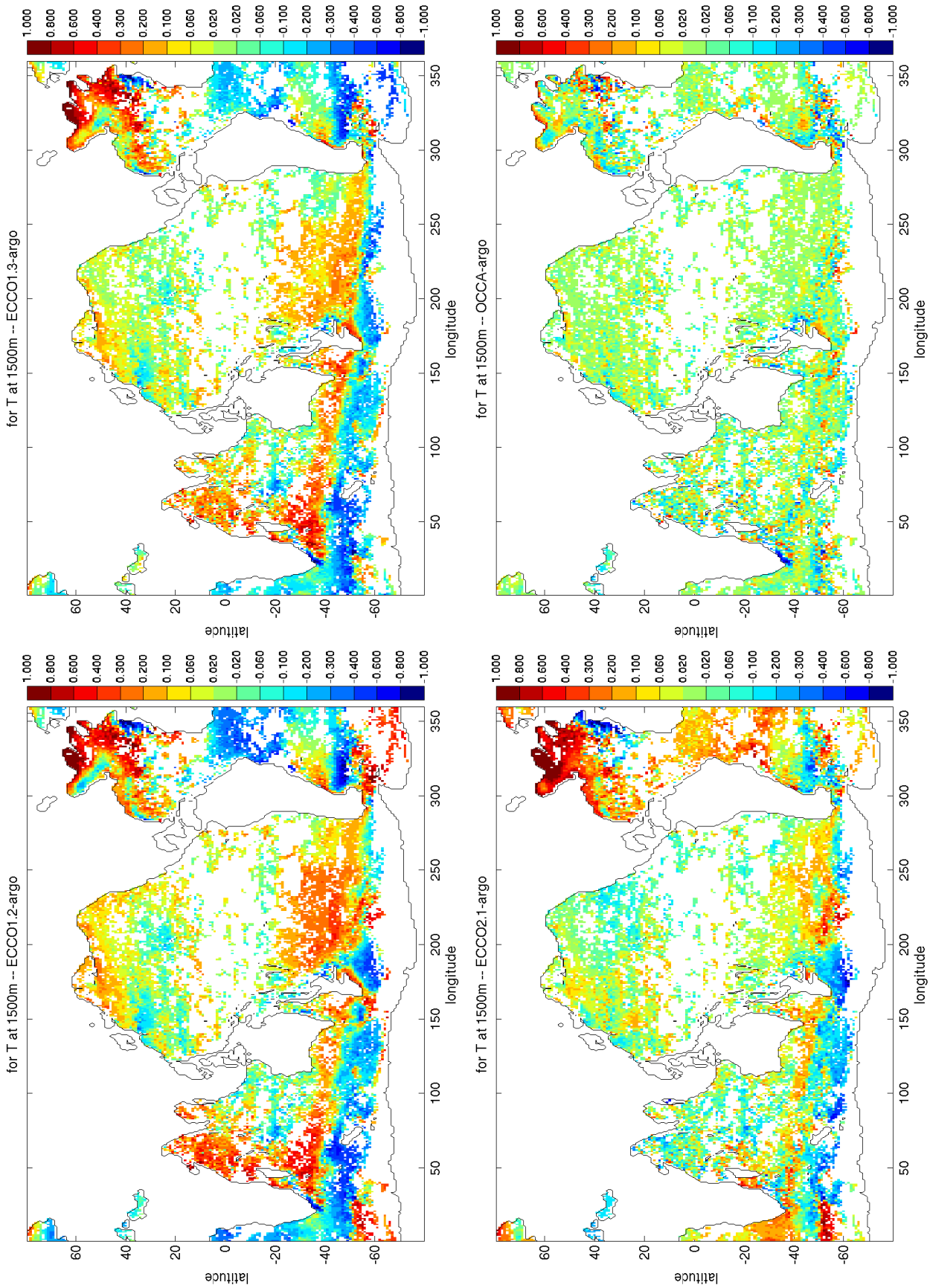

FIG. 12. T 1500m.

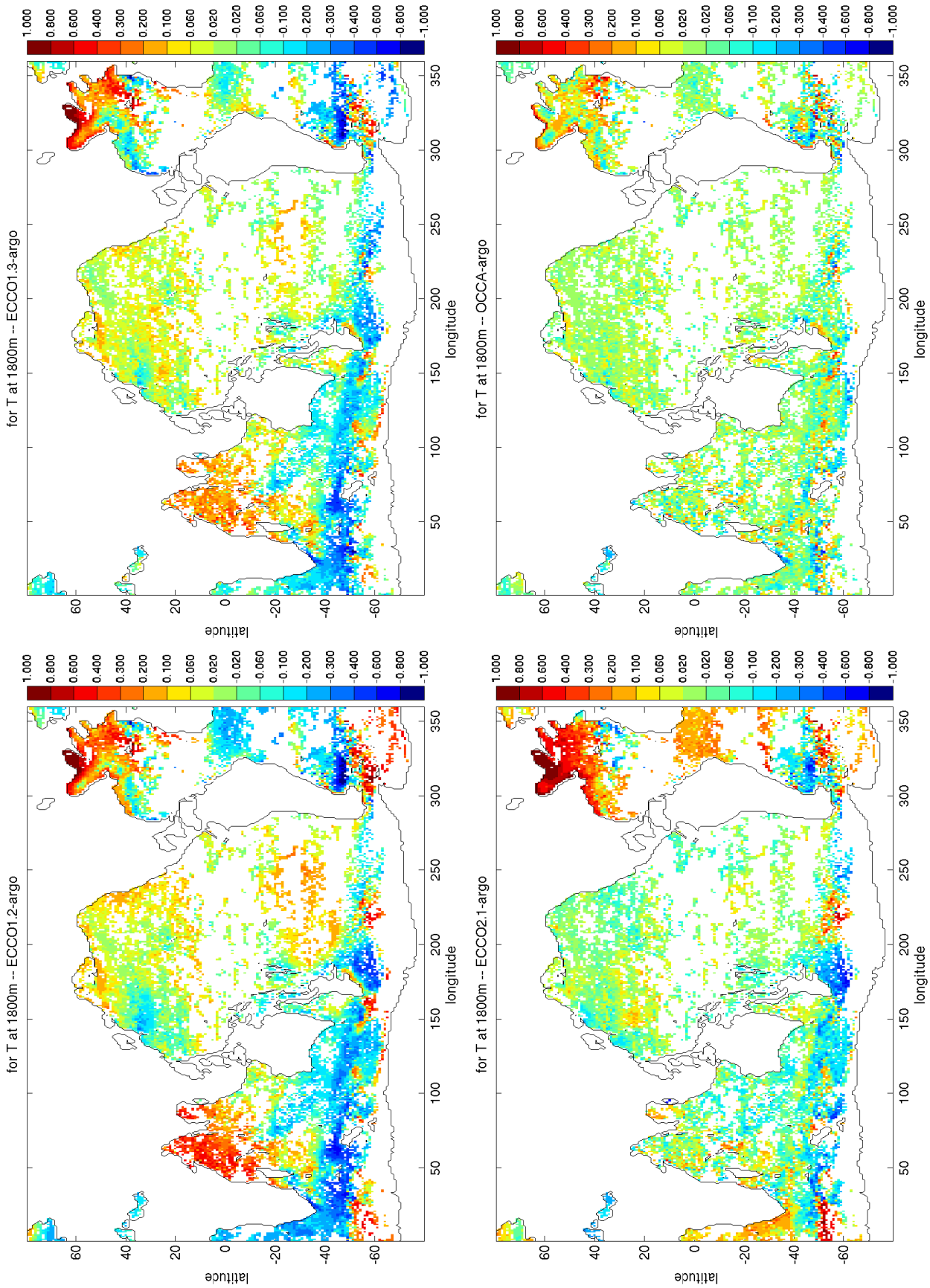

FIG. 13. T 1800m.