11/13/20 - plots

- Difference (FHIST_Contrail - FHIST) plots
- ordered by variable and level
- level ranges from 16 to 18

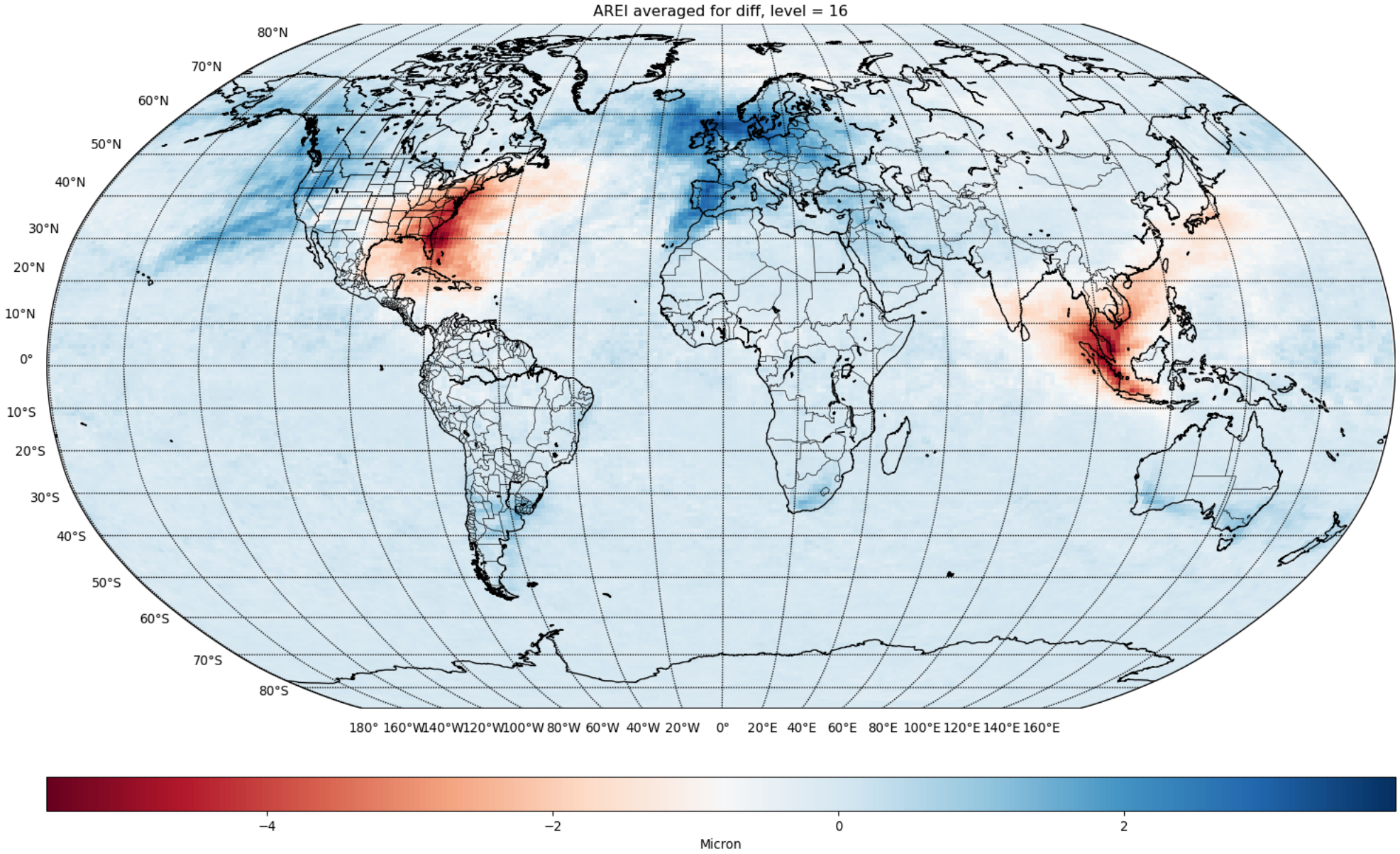
Abbreviations and units

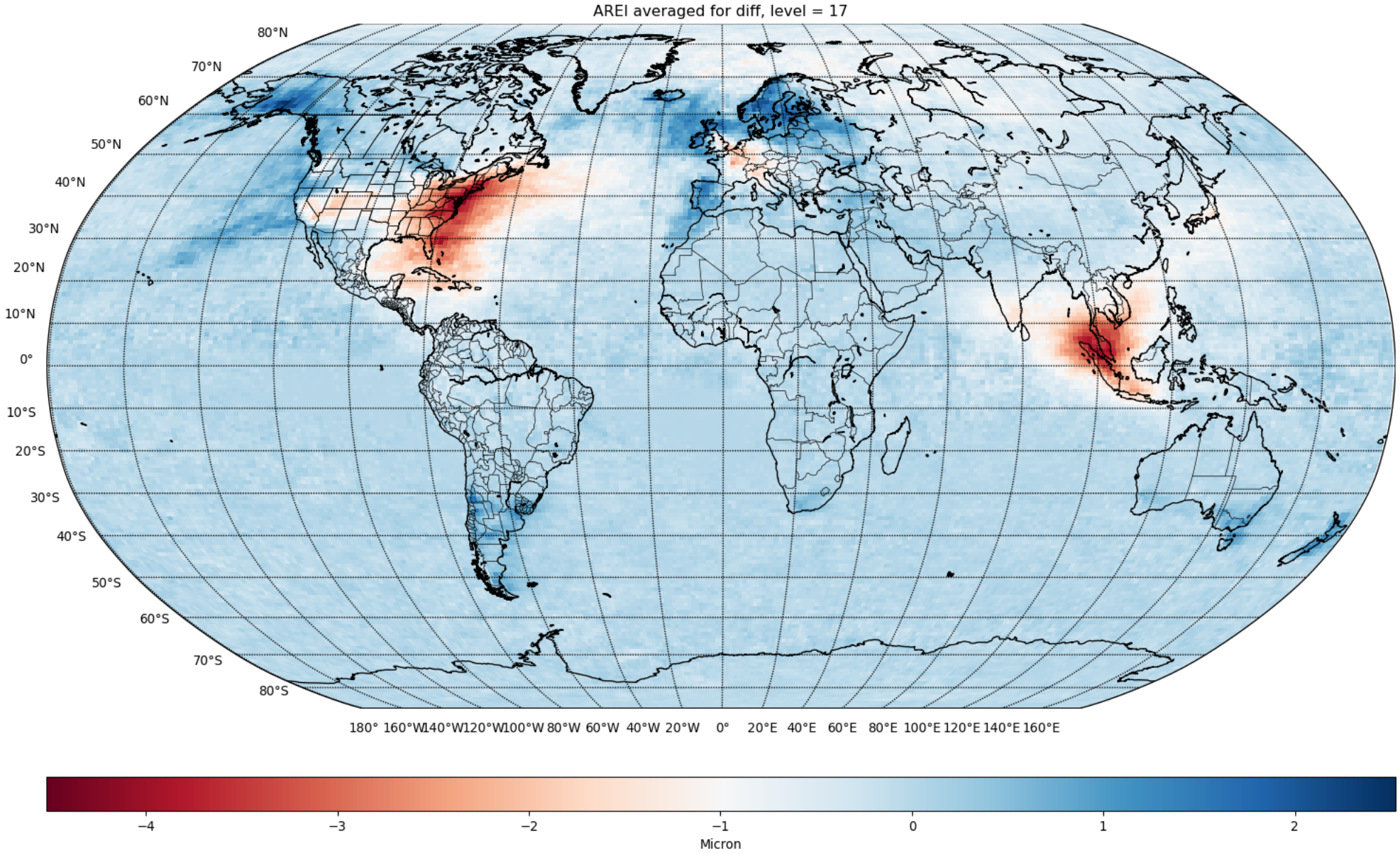
Abbreviation	Measurement	Units
AREI	Average ice effective radius	micron
CLOUD	Cloud fraction	N/A
IWC	Grid box average ice water content	kg/m^3
T	Temperature	K

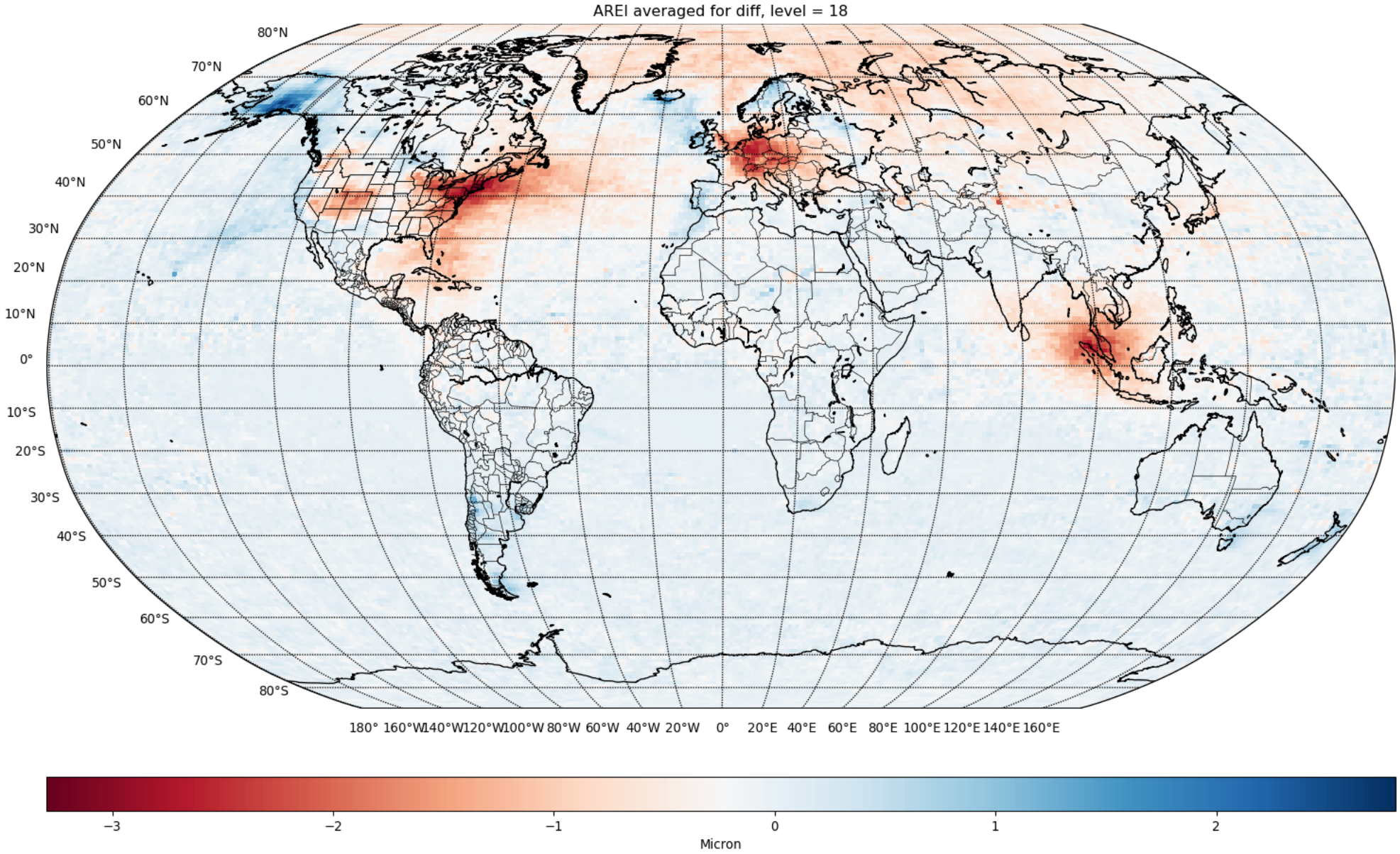
Levels and pressures

Level	Pressure (hPa)	Level	Pressure (hPa)
0	3.64346569404006	16	273.9108167588711
1	7.594819646328688	17	322.2419023513794
2	14.356632251292467	18	379.10090386867523
3	24.612220004200935	19	445.992574095726
4	35.92325001955032	20	524.6871747076511
5	43.1937500834465	21	609.7786948084831
6	51.67749896645546	22	691.3894303143024
7	61.52049824595451	23	763.404481112957
8	73.75095784664154	24	820.8583686500788
9	87.82123029232025	25	859.5347665250301
10	103.31712663173676	26	887.0202489197254
11	121.54724076390266	27	912.644546944648
12	142.99403876066208	28	936.1983984708786
13	168.22507977485657	29	957.485479535535
14	197.9080867022276	30	976.325407391414
15	232.82861895859241	31	992.556095123291

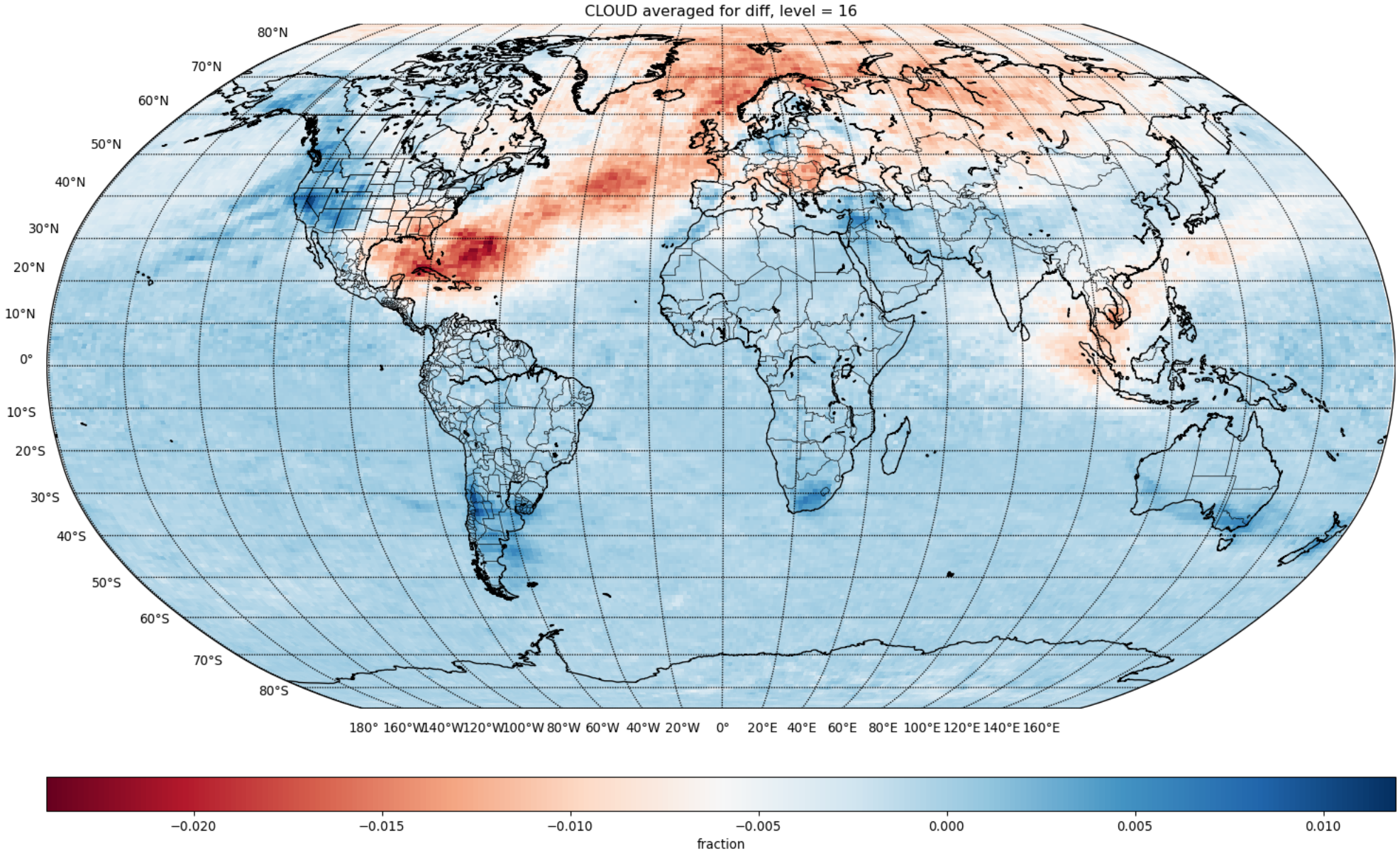
AREI

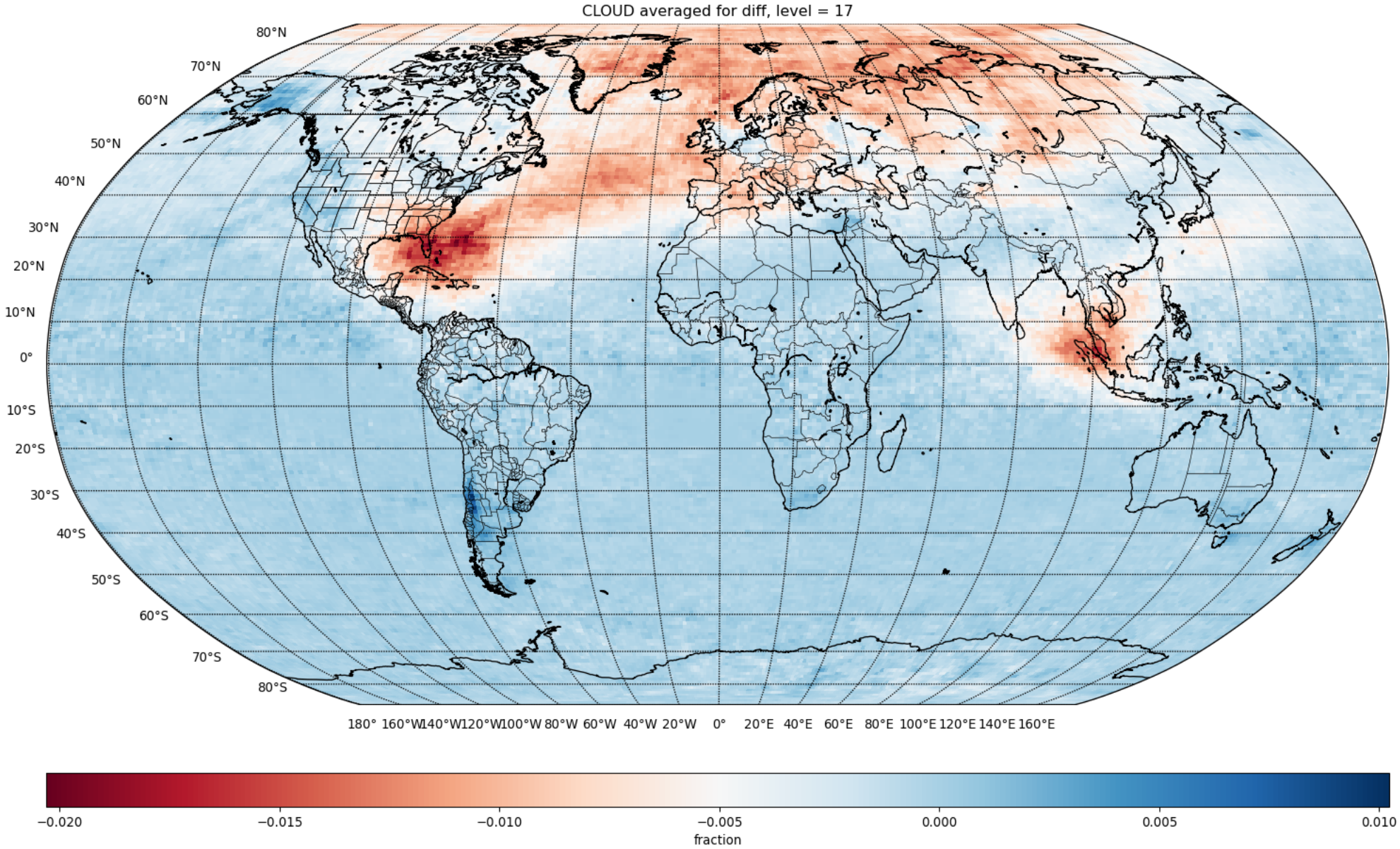

AREI averaged for diff, level = 16
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−4
−2
0
2
Micron

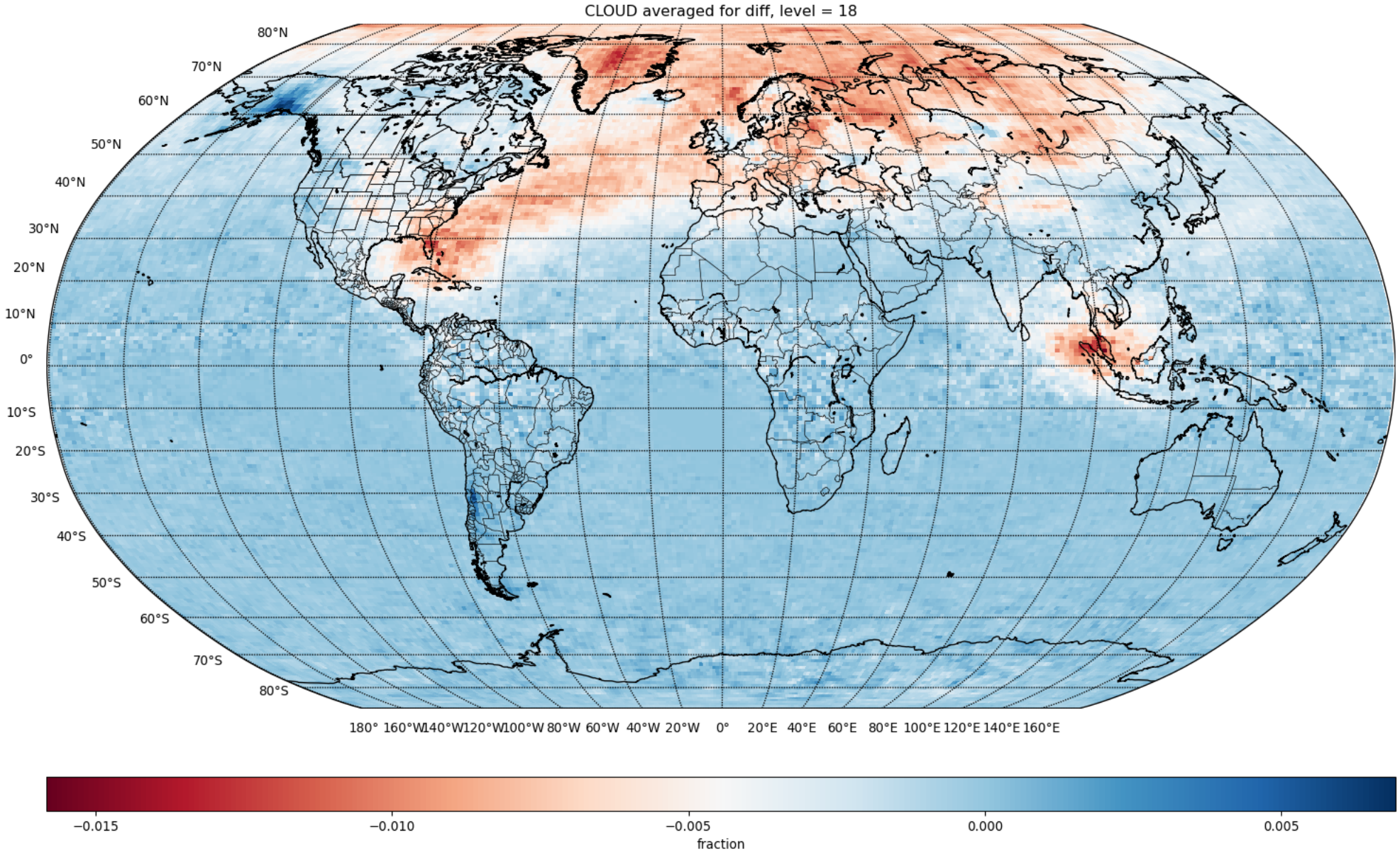

AREI averaged for diff, level = 17
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−4
−3
−2
−1
0
1
2
Micron


AREI averaged for diff, level = 18
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−3
−2
−1
0
1
2
Micron

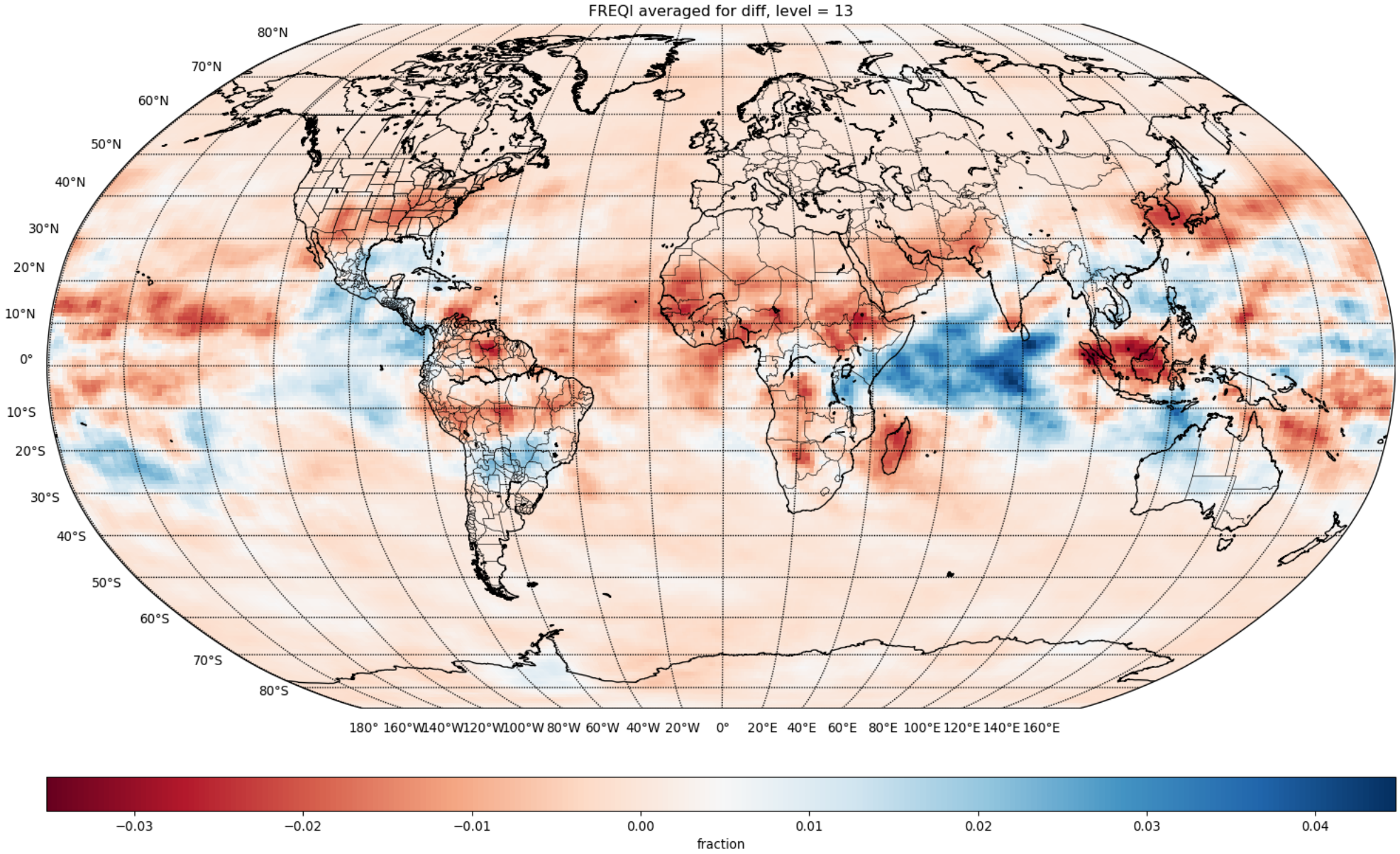
CLOUD

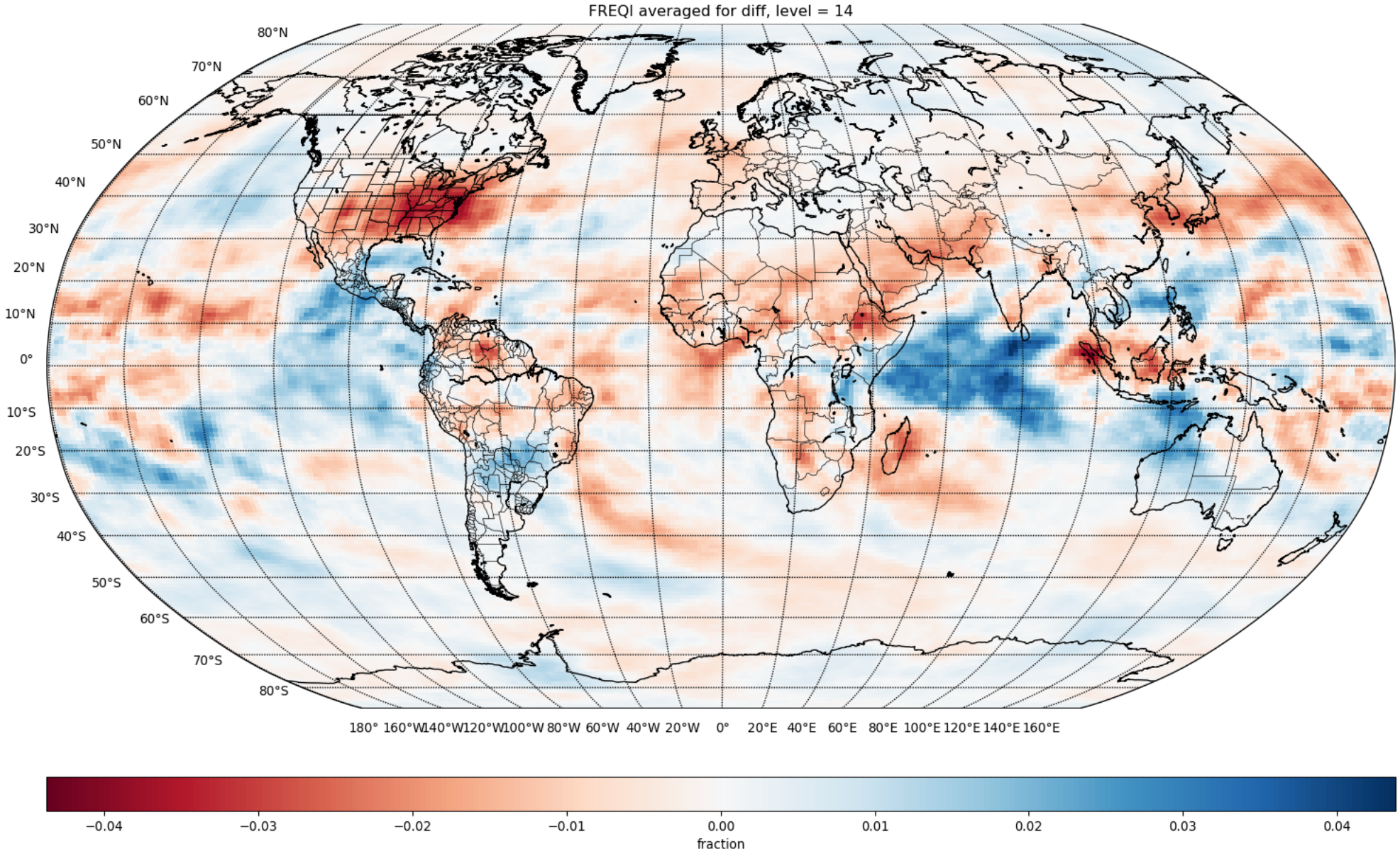

CLOUD averaged for diff, level = 16
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−0.020
−0.015
−0.010
−0.005
0.000
0.005
0.010
fraction

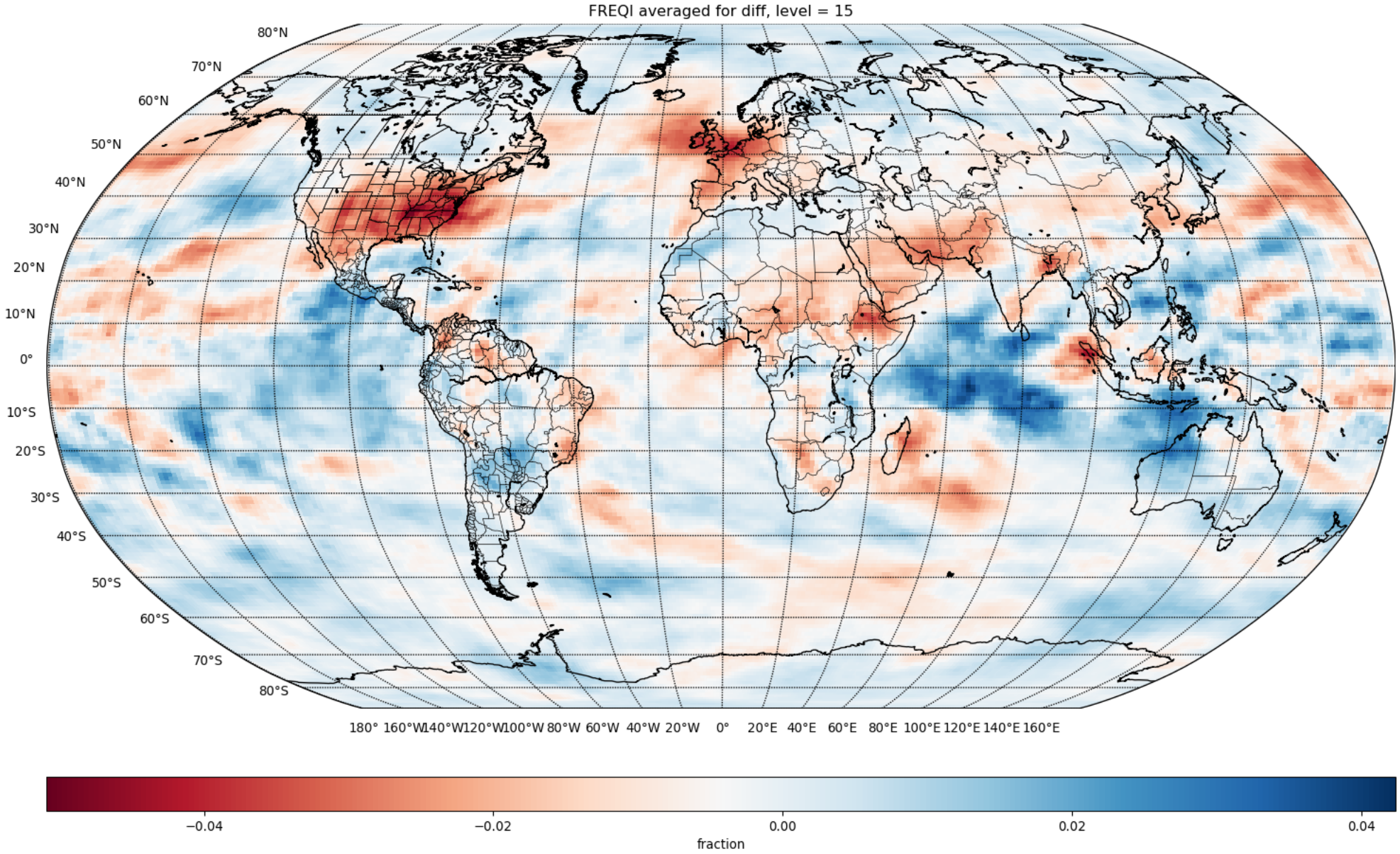

CLOUD averaged for diff, level = 17
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−0.020
−0.015
−0.010
−0.005
0.000
0.005
0.010
fraction


CLOUD averaged for diff, level = 18
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−0.015
−0.010
−0.005
0.000
0.005
fraction

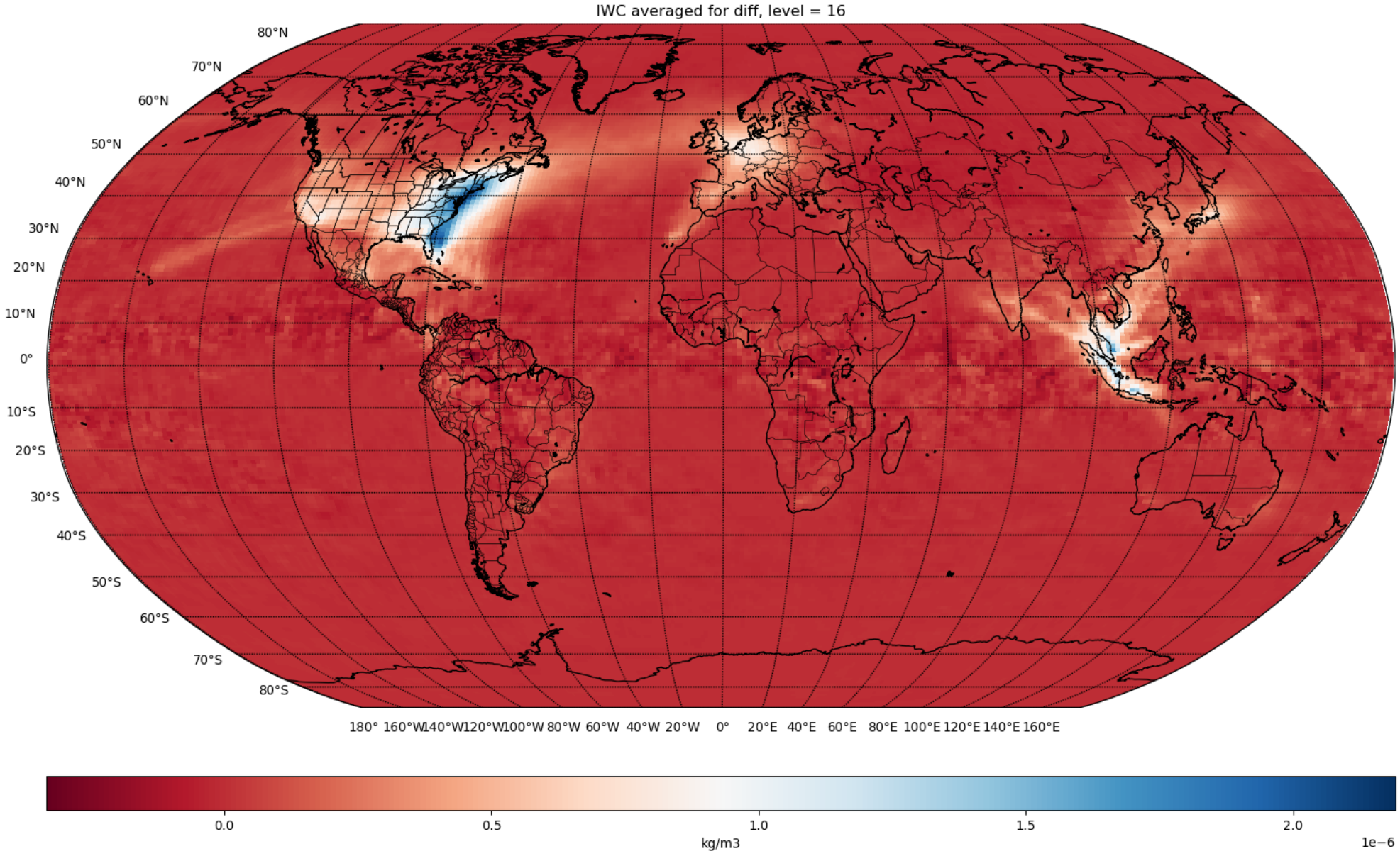
FREQI

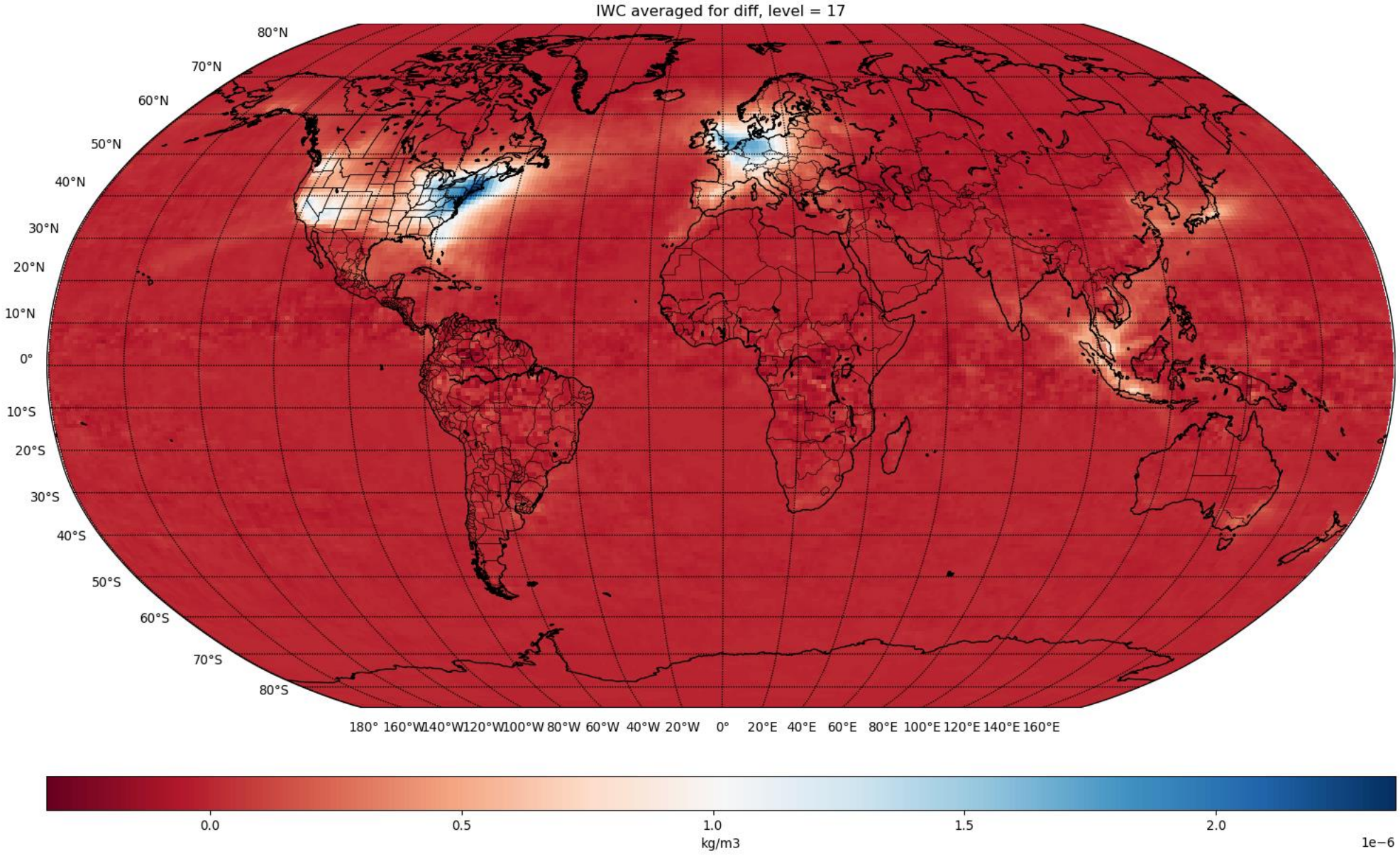

FREQI averaged for diff, level = 13
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−0.03
−0.02
−0.01
0.00
0.01
0.02
0.03
0.04
fraction

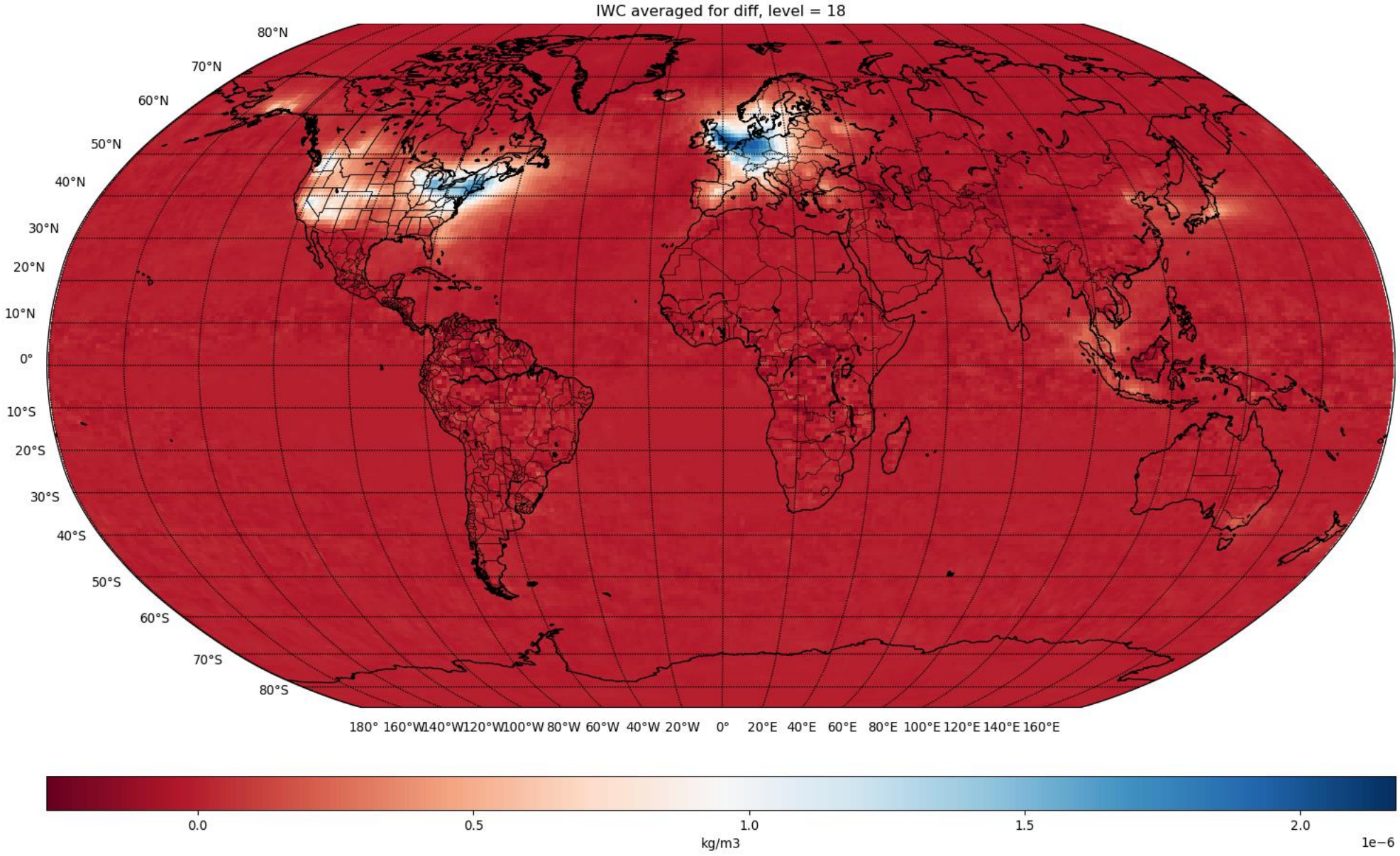

FREQI averaged for diff, level = 14
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−0.04
−0.03
−0.02
−0.01
0.00
0.01
0.02
0.03
0.04
fraction


FREQI averaged for diff, level = 15
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
−0.04
−0.02
0.00
0.02
0.04
fraction

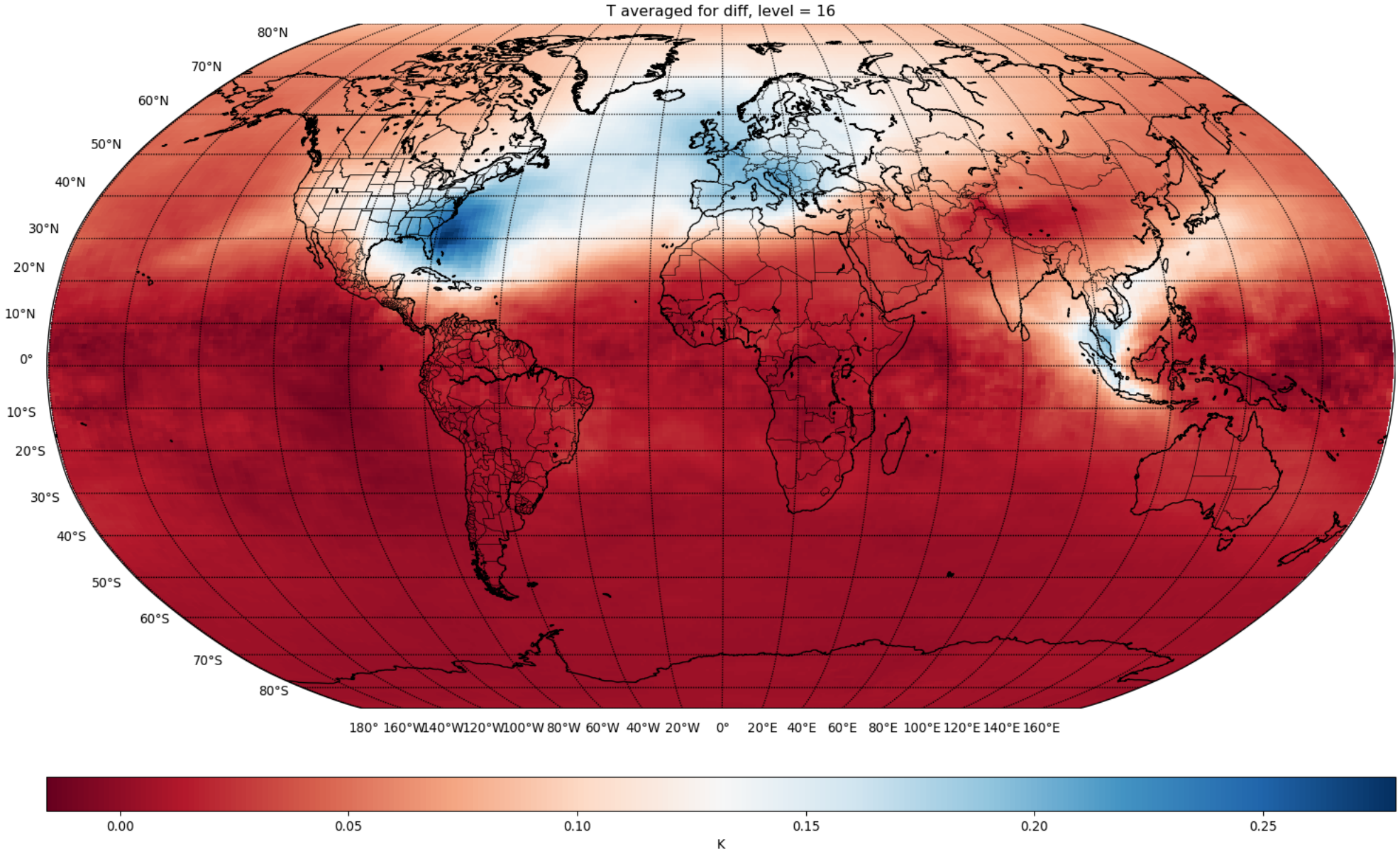
IWC

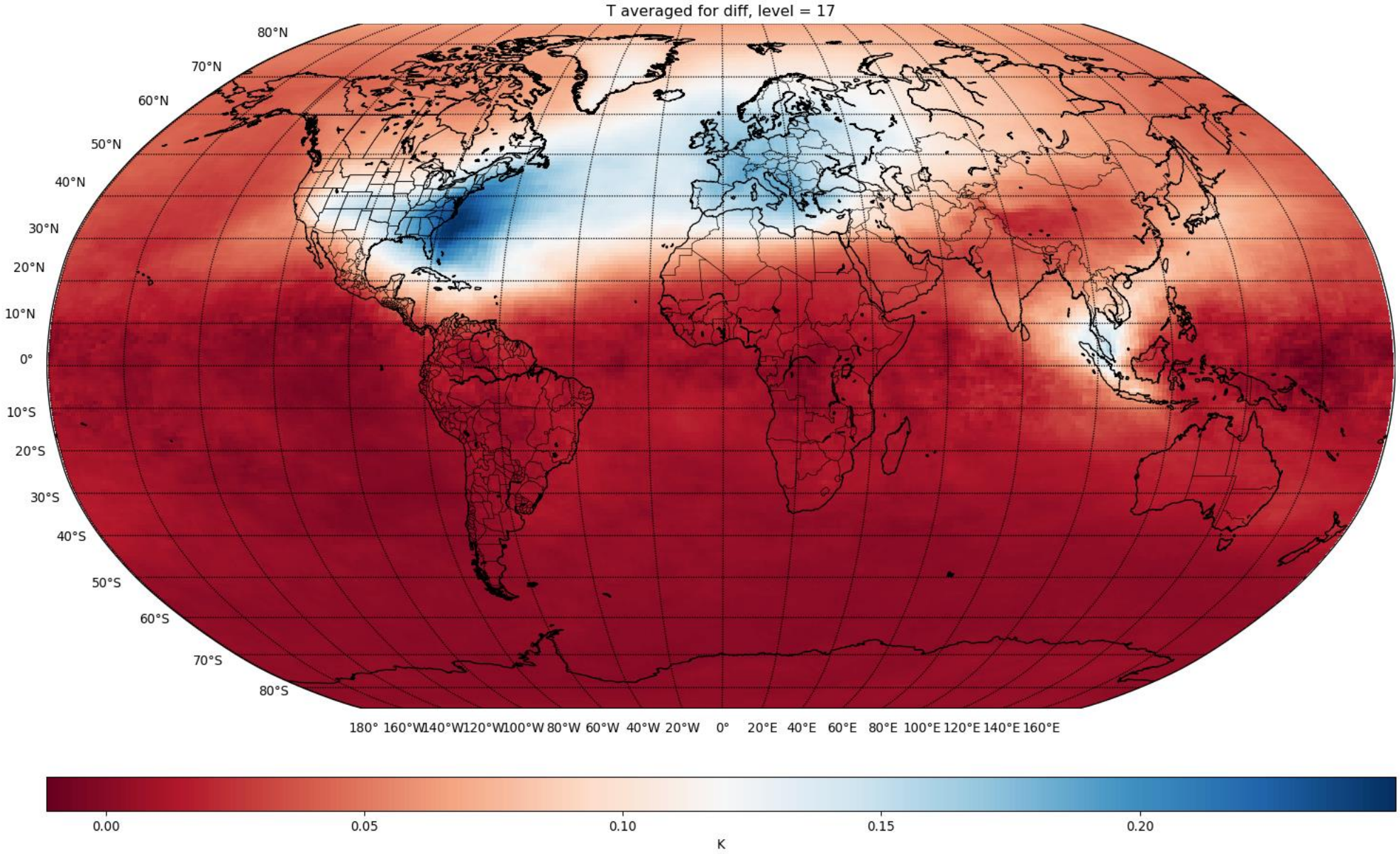

IWC averaged for diff, level = 16
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
0.0
0.5
1.0
1.5
2.0
kg/m3
1e−6

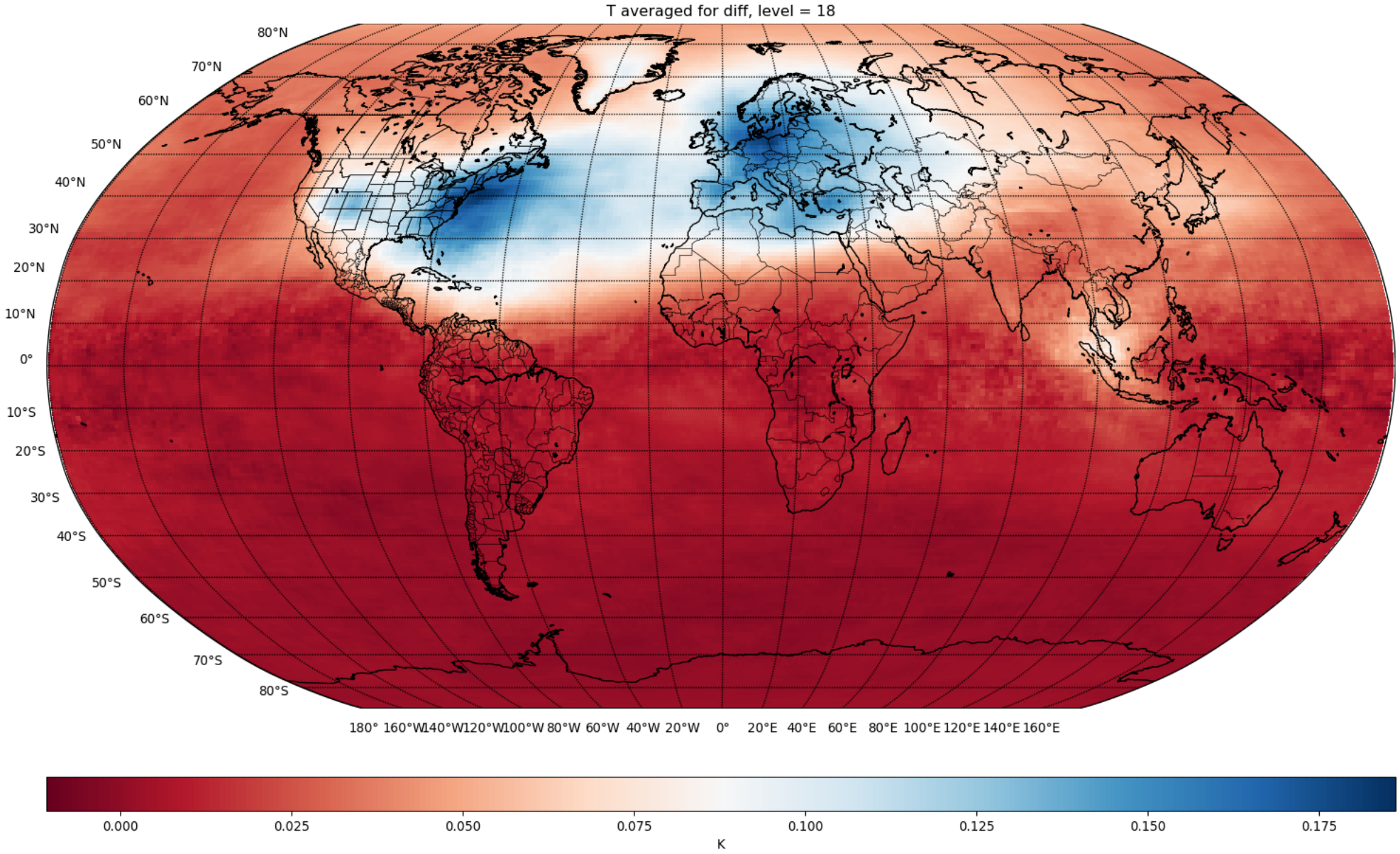

IWC averaged for diff, level = 17
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
0.0
0.5
1.0
1.5
2.0
kg/m3
1e−6


IWC averaged for diff, level = 18
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
0.0
0.5
1.0
1.5
2.0
kg/m3
1e−6

T


T averaged for diff, level = 16
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
0.00
0.05
0.10
0.15
0.20
0.25
K


T averaged for diff, level = 17
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
0.00
0.05
0.10
0.15
0.20
K


T averaged for diff, level = 18
80°N
70°N
60°N
50°N
40°N
30°N
20°N
10°N
0°
10°S
20°S
30°S
40°S
50°S
60°S
70°S
80°S
180° 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0° 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
K