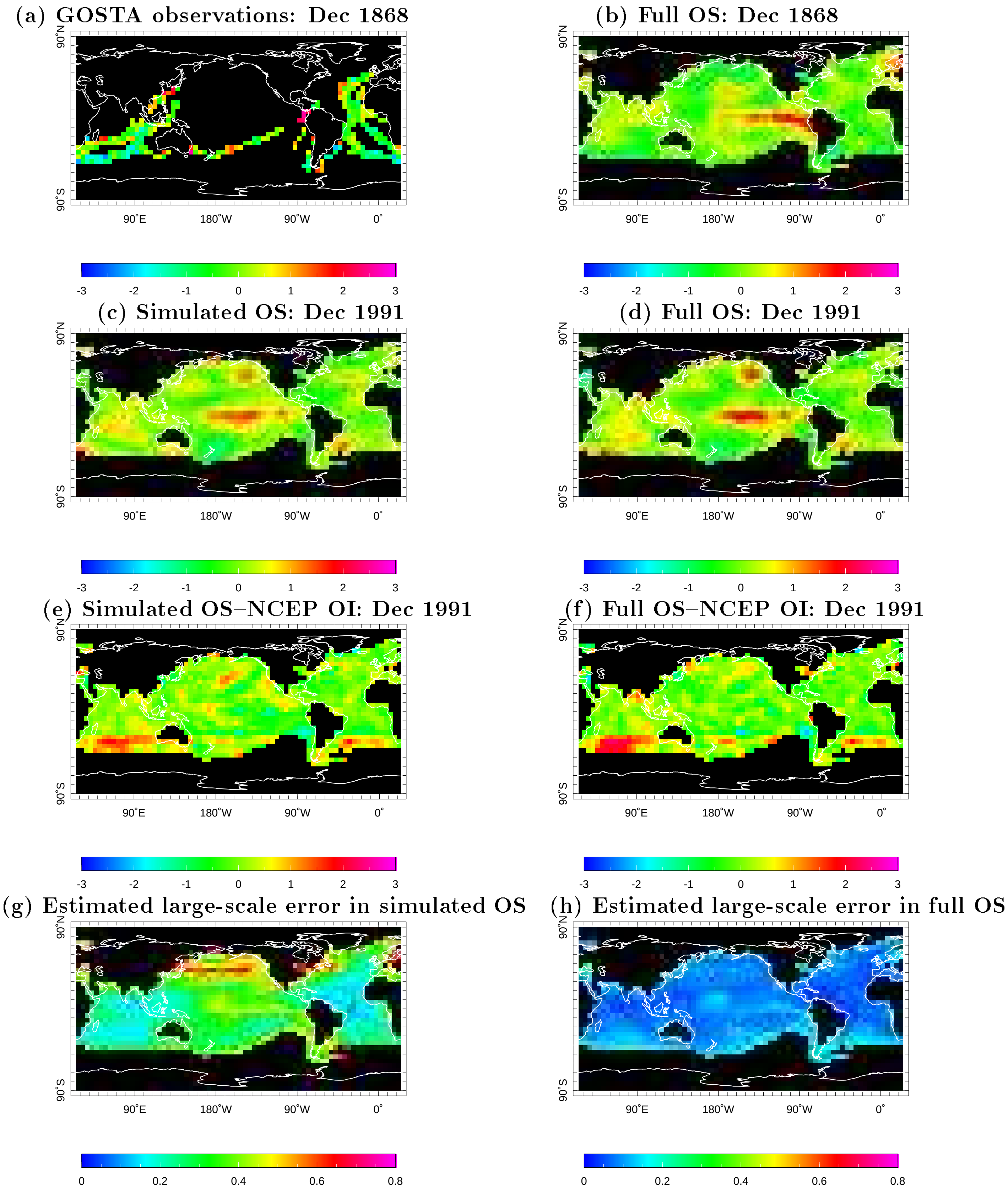

(a) GOSTA observations: Dec 1868
(b) Full OS: Dec 1868
(c) Simulated OS: Dec 1991
(d) Full OS: Dec 1991
(e) Simulated OS–NCEP OI: Dec 1991
(f) Full OS–NCEP OI: Dec 1991
(g) Estimated large-scale error in simulated OS
(h) Estimated large-scale error in full OS
90°N
90°S
90°E
180°W
90°W
0°
-3
-2
-1
0
1
2
3
0
0.2
0.4
0.6
0.8

Plate 1.

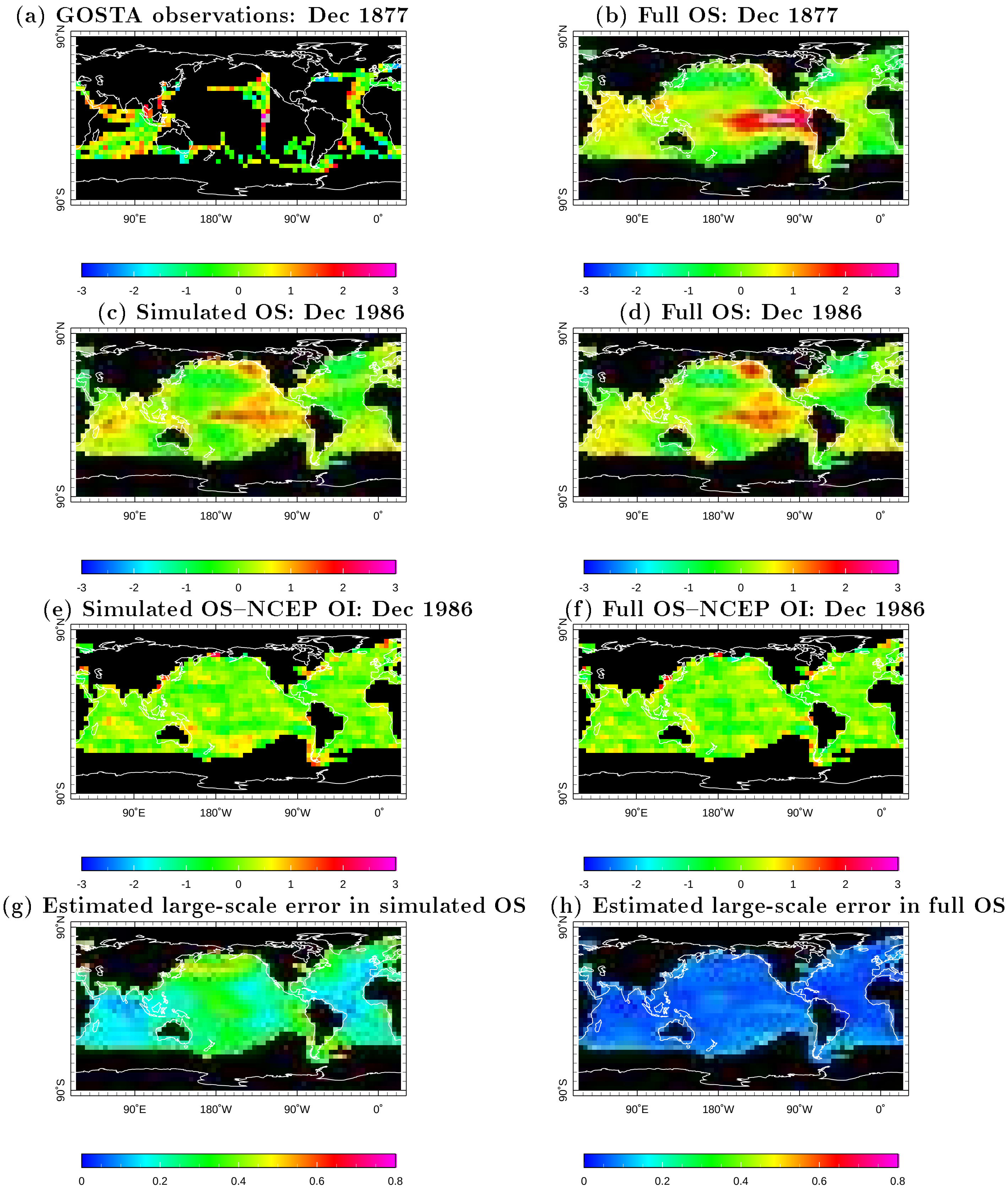

(a) GOSTA observations: Dec 1877
(b) Full OS: Dec 1877
(c) Simulated OS: Dec 1986
(d) Full OS: Dec 1986
(e) Simulated OS–NCEP OI: Dec 1986
(f) Full OS–NCEP OI: Dec 1986
(g) Estimated large-scale error in simulated OS
(h) Estimated large-scale error in full OS
90°N
90°S
90°E
180°W
90°W
0°
-3
-2
-1
0
1
2
3
0
0.2
0.4
0.6
0.8

Plate 2.

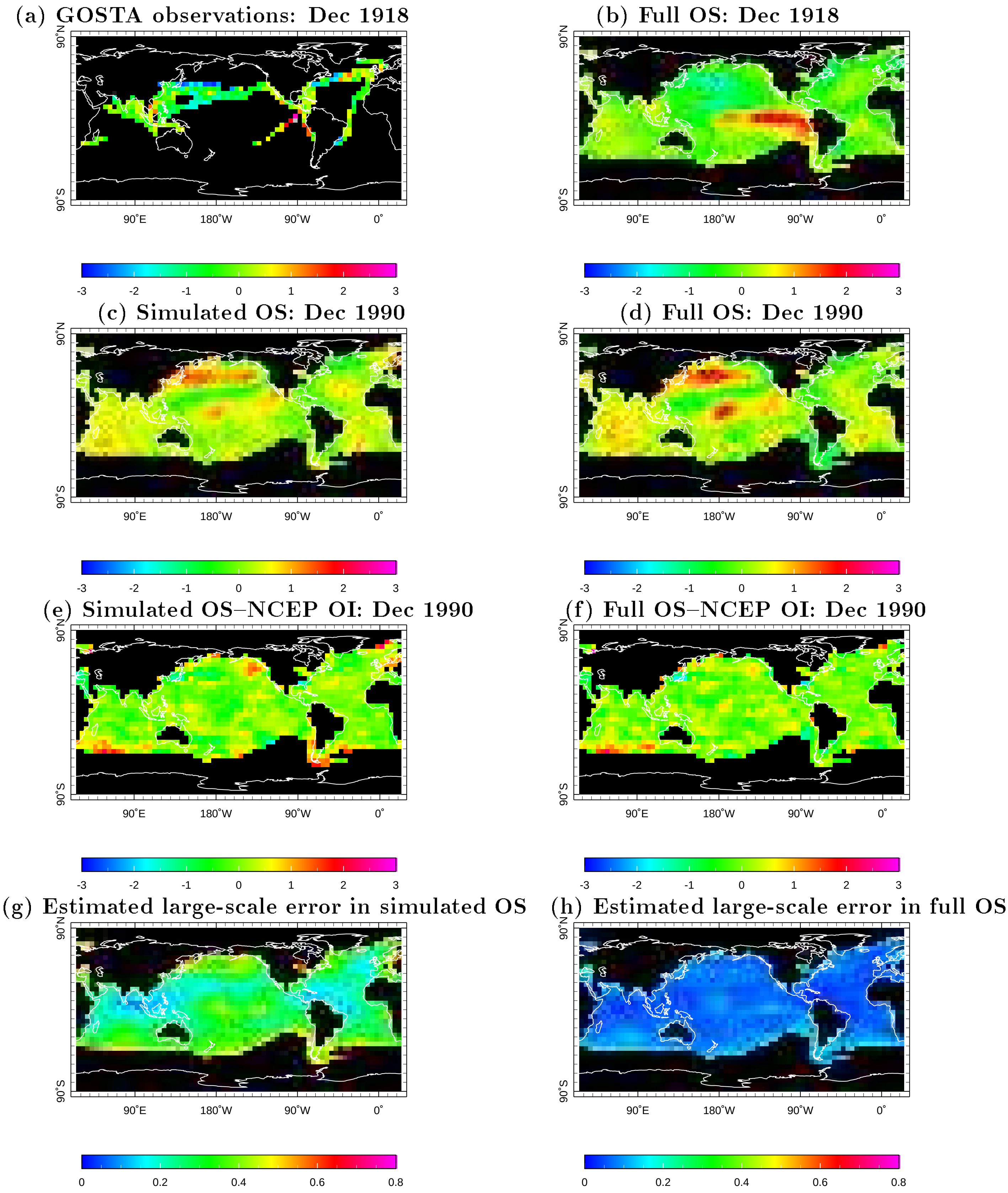

(a) GOSTA observations: Dec 1918
(b) Full OS: Dec 1918
(c) Simulated OS: Dec 1990
(d) Full OS: Dec 1990
(e) Simulated OS–NCEP OI: Dec 1990
(f) Full OS–NCEP OI: Dec 1990
(g) Estimated large-scale error in simulated OS
(h) Estimated large-scale error in full OS
90°N
90°S
90°E
180°W
90°W
0°
-3
-2
-1
0
1
2
3
0
0.2
0.4
0.6
0.8

Plate 3.

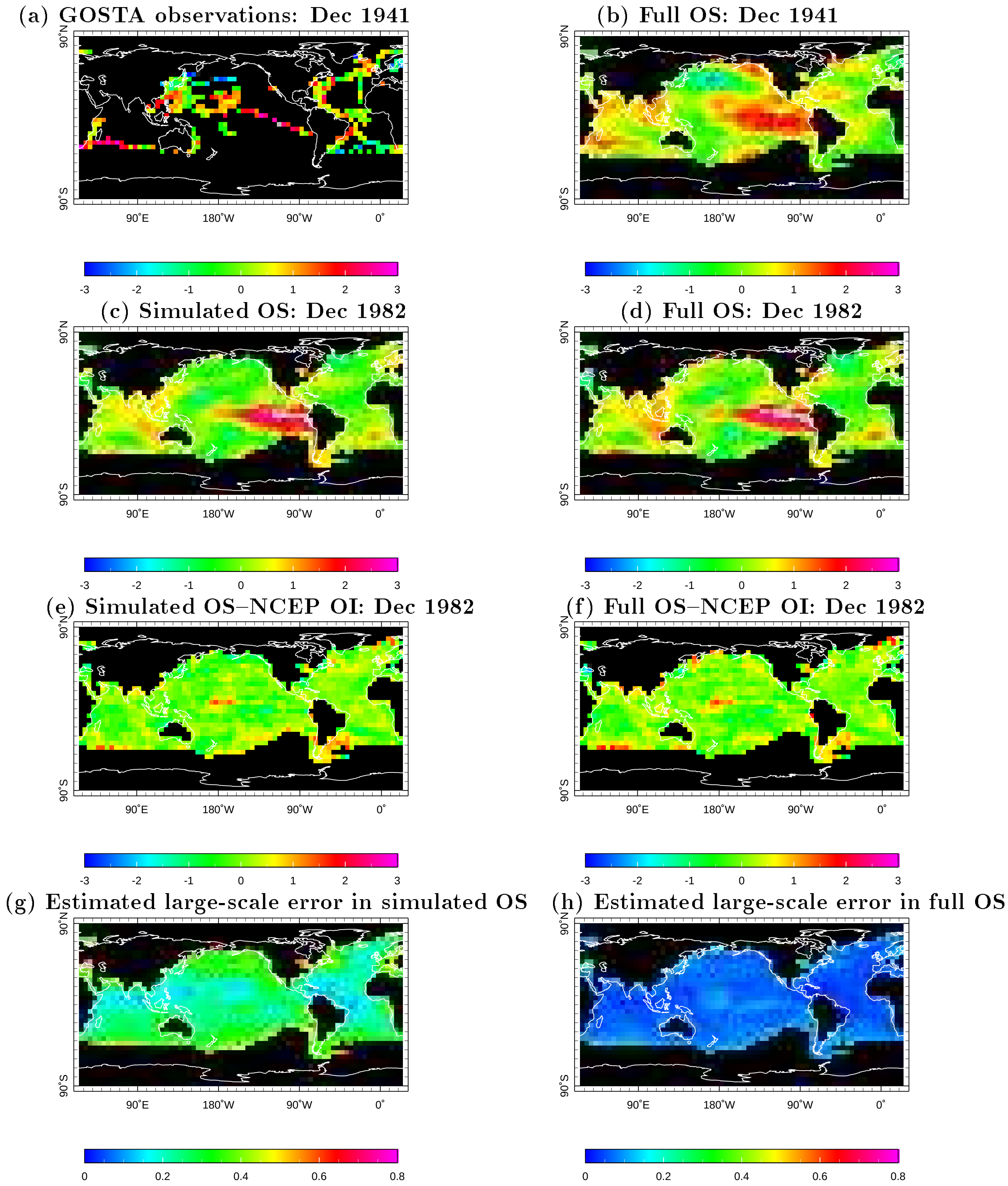

(a) GOSTA observations: Dec 1941
(b) Full OS: Dec 1941
(c) Simulated OS: Dec 1982
(d) Full OS: Dec 1982
(e) Simulated OS–NCEP OI: Dec 1982
(f) Full OS–NCEP OI: Dec 1982
(g) Estimated large-scale error in simulated OS
(h) Estimated large-scale error in full OS
90°N
90°S
90°E
180°W
90°W
0°
-3
-2
-1
0
1
2
3
0
0.2
0.4
0.6
0.8

Plate 4.

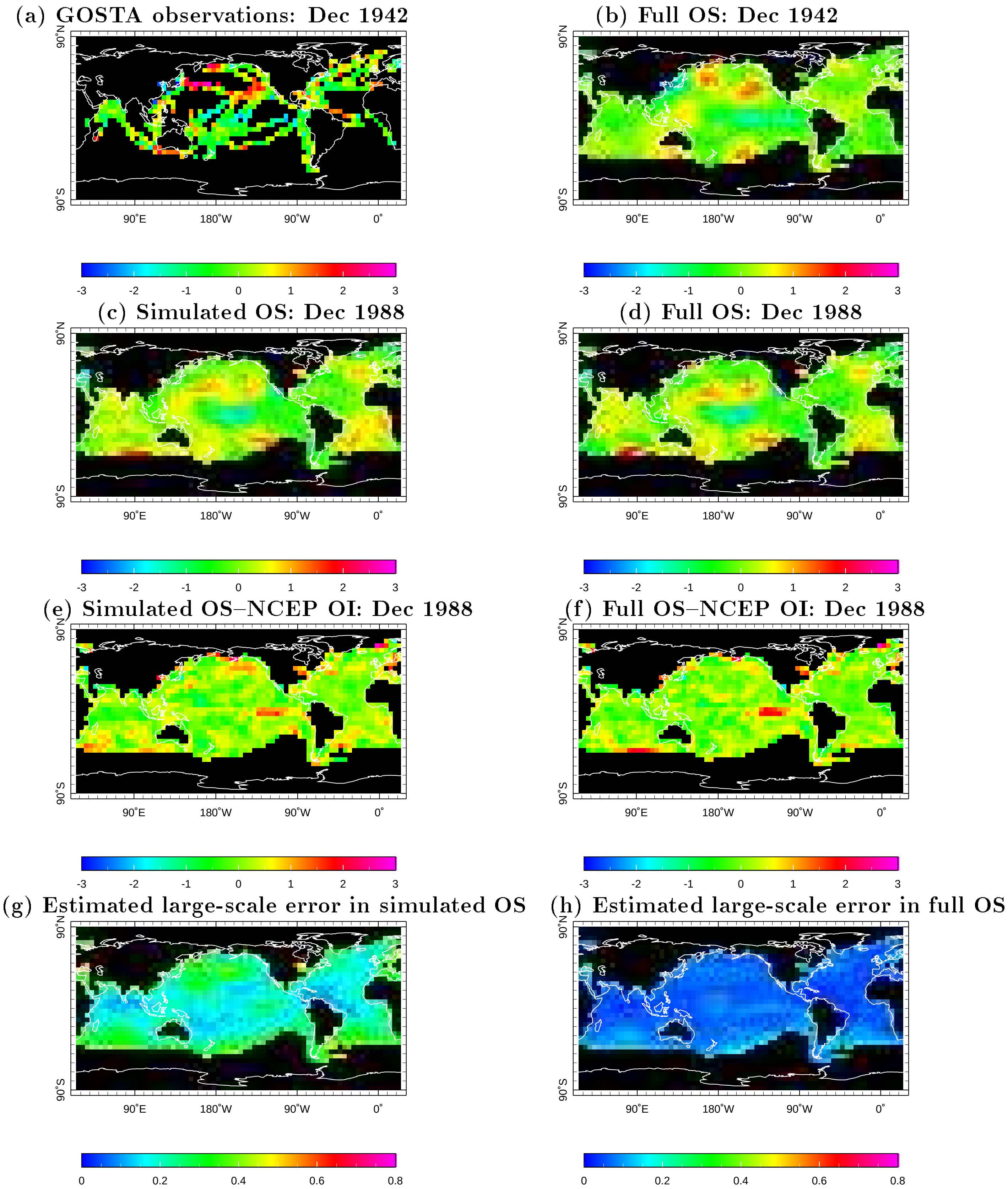
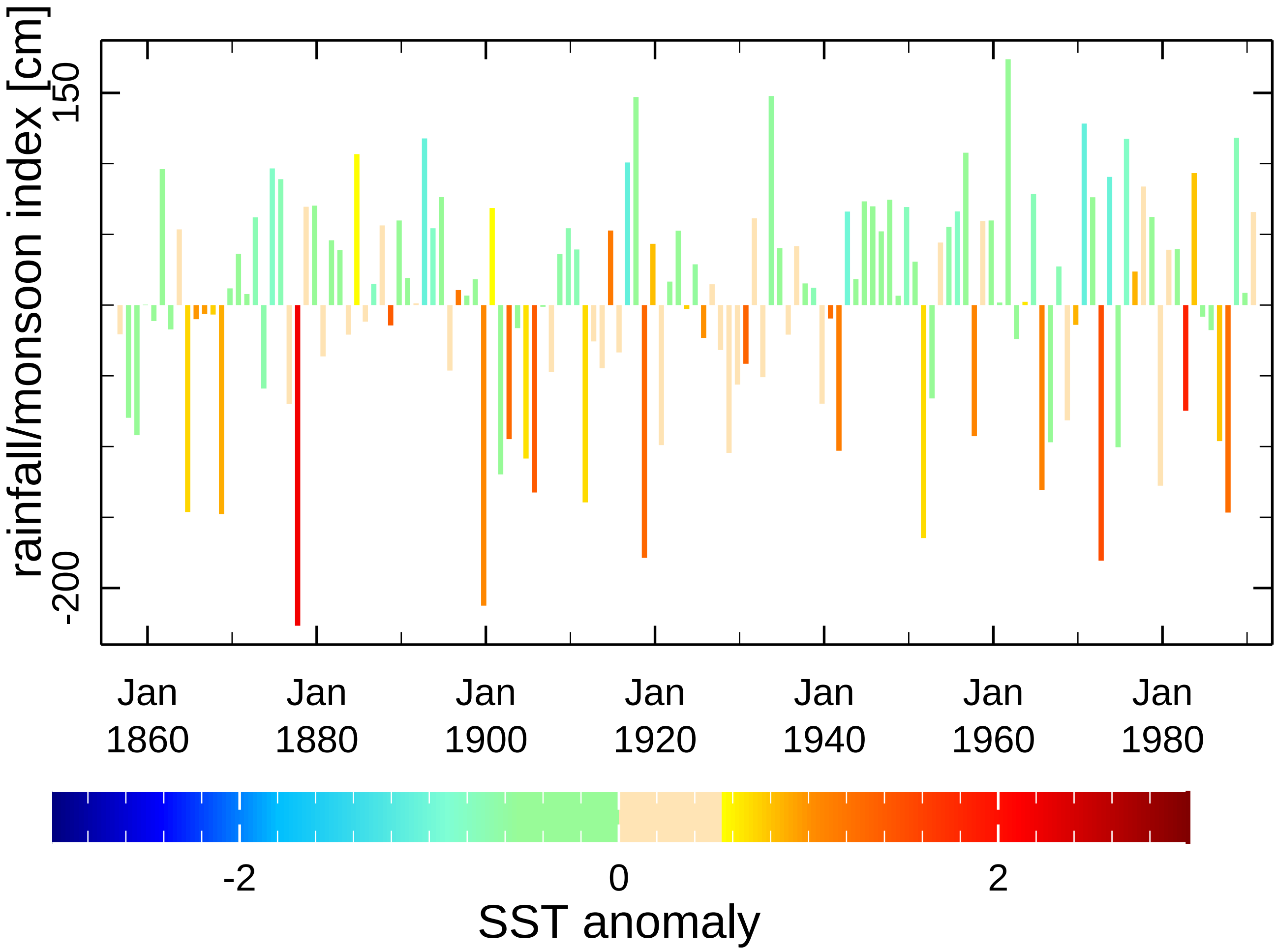

(a) GOSTA observations: Dec 1942
(b) Full OS: Dec 1942
(c) Simulated OS: Dec 1988
(d) Full OS: Dec 1988
(e) Simulated OS–NCEP OI: Dec 1988
(f) Full OS–NCEP OI: Dec 1988
(g) Estimated large-scale error in simulated OS
(h) Estimated large-scale error in full OS
90°N
90°S
90°E
180°W
90°W
0°
-3
-2
-1
0
1
2
3
0
0.2
0.4
0.6
0.8

Plate 5.



rainfall/monsoon index [cm]
150
-200
Jan 1860
Jan 1880
Jan 1900
Jan 1920
Jan 1940
Jan 1960
Jan 1980
-2
0
2
SST anomaly

Plate 6.