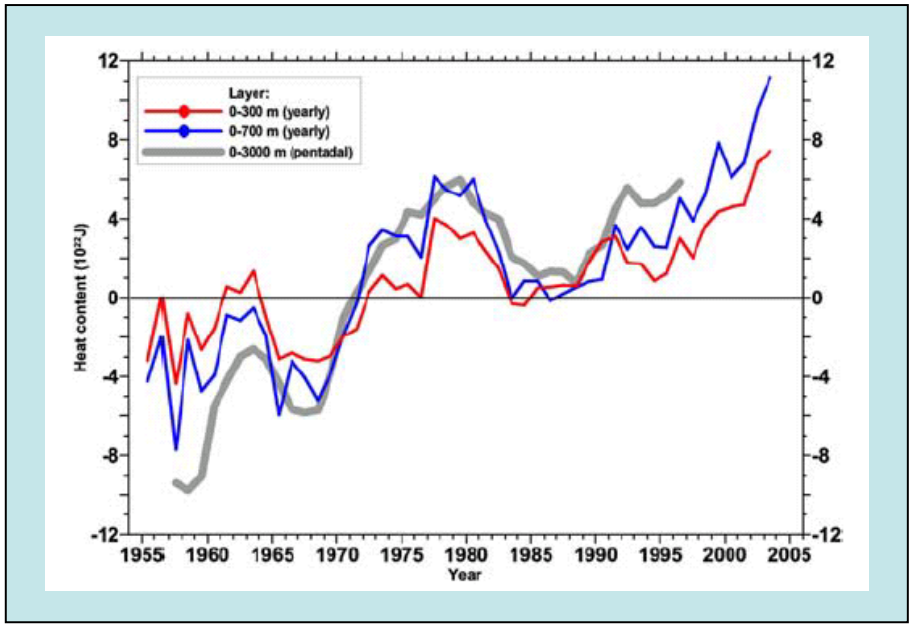
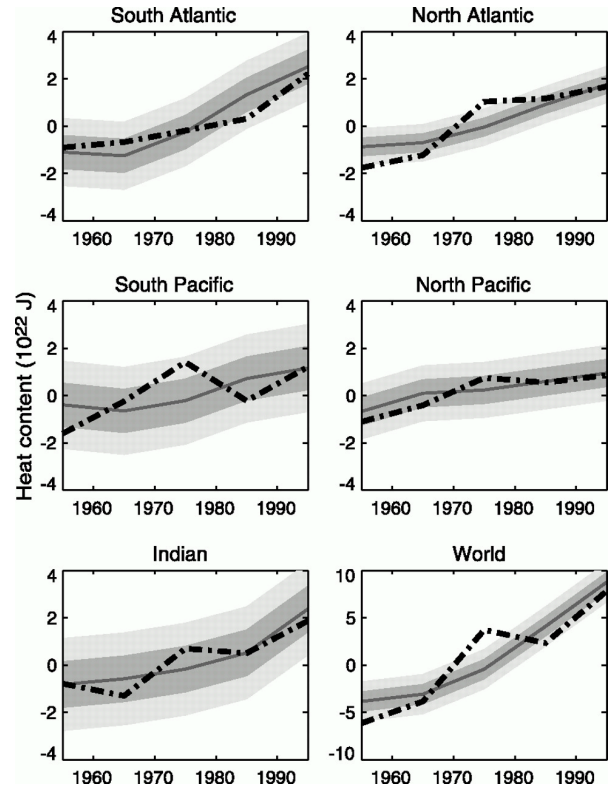
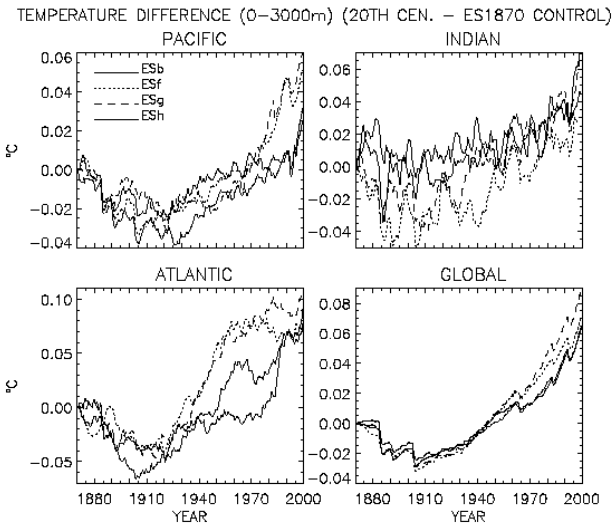
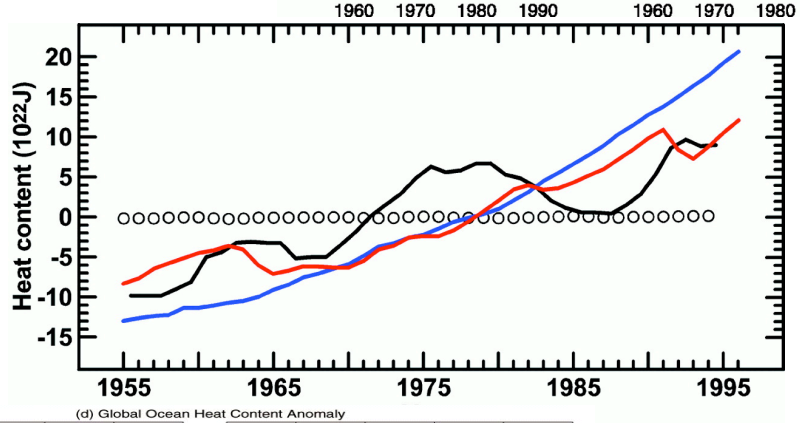
Variability of Ocean Heat Content: Reconciling Observations and Climate Models

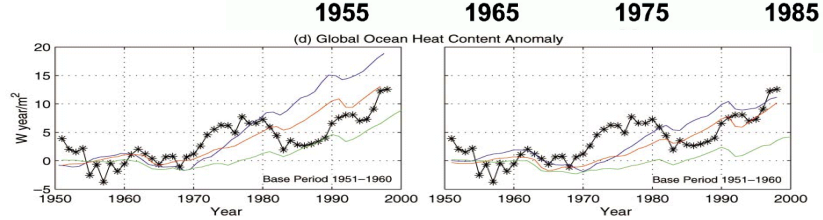
Krishna AchutaRao, Peter Gleckler, Benjamin Santer, Karl Taylor
David Pierce, Tim Barnett, and Tom Wigley



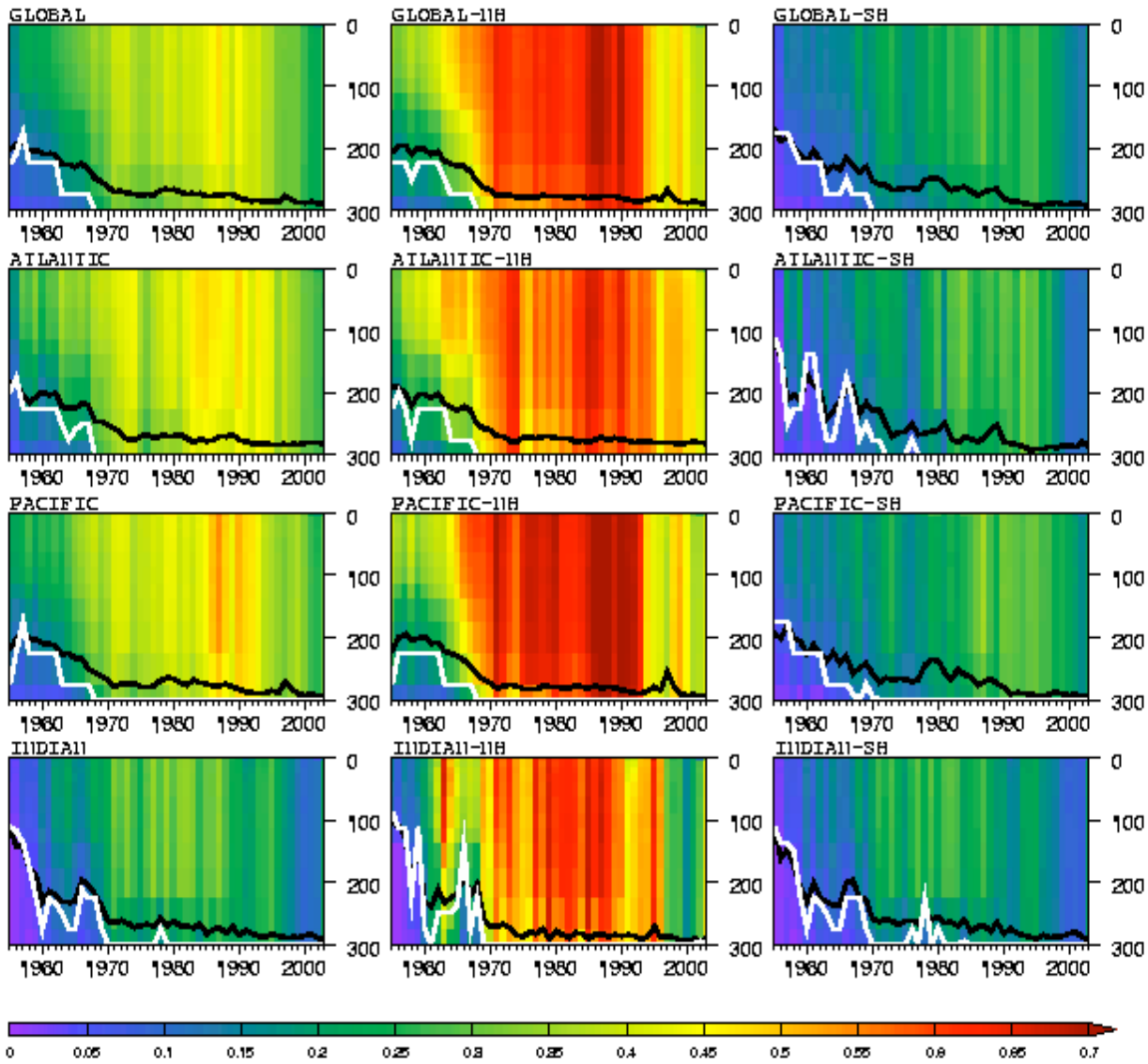


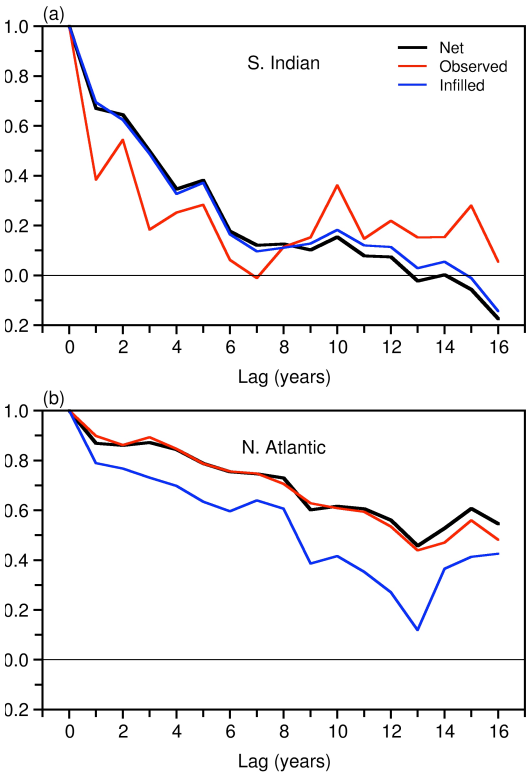






No Tropospheric Aerosols **With Tropospheric Aerosols**


GLOBAL
GLOBAL-NH
GLOBAL-SH
ATLANTIC
ATLANTIC-NH
ATLANTIC-SH
PACIFIC
PACIFIC-NH
PACIFIC-SH
INDIAN
INDIAN-NH
INDIAN-SH
0
100
200
300
1960
1970
1980
1990
2000
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
0.5
0.55
0.6
0.65
0.7


(a)
S. Indian
Net
Observed
Infilled
1.0
0.8
0.6
0.4
0.2
0.0
0.2
0
2
4
6
8
10
12
14
16
Lag (years)
(b)
N. Atlantic
1.0
0.8
0.6
0.4
0.2
0.0
0.2
0
2
4
6
8
10
12
14
16
Lag (years)