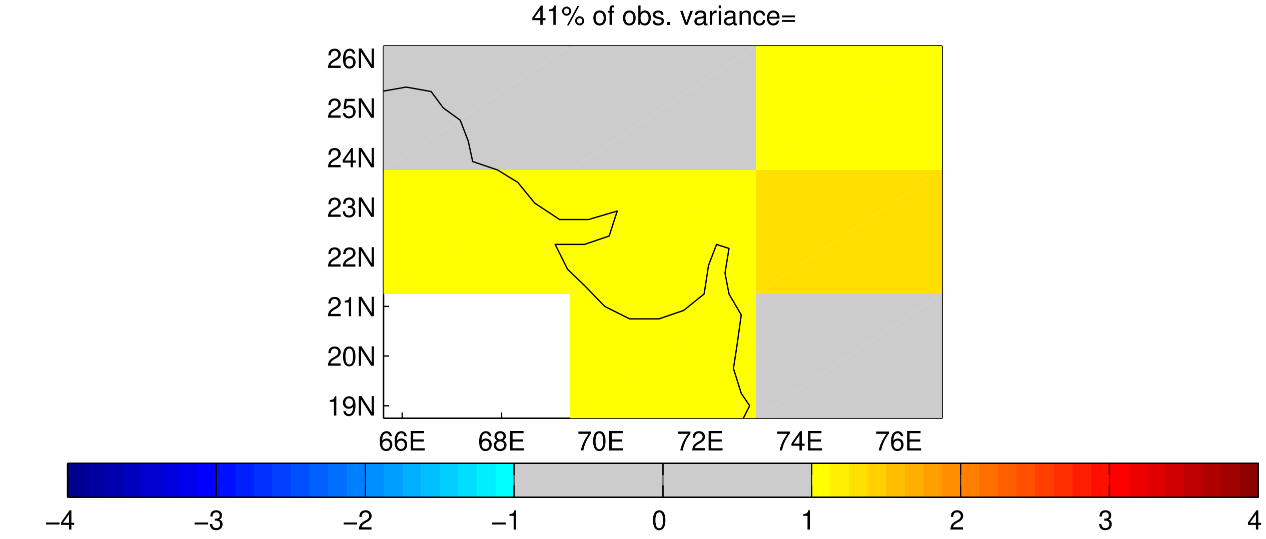
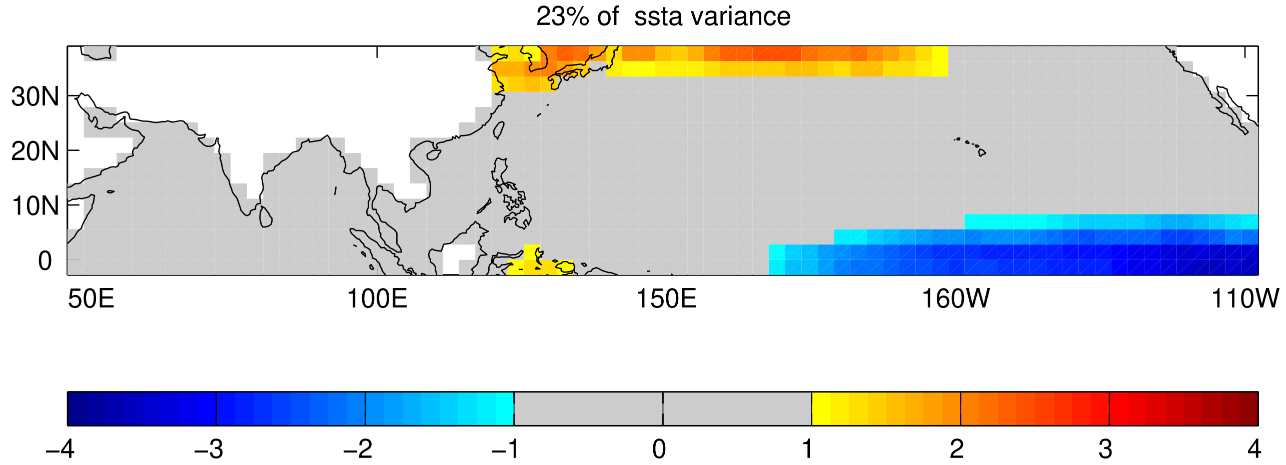
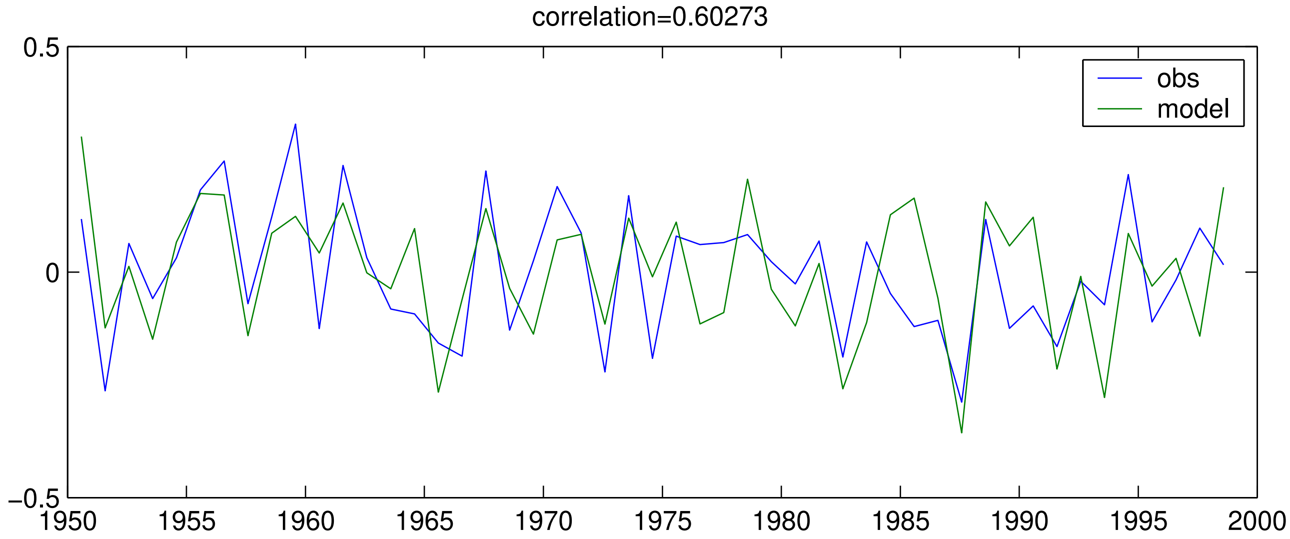
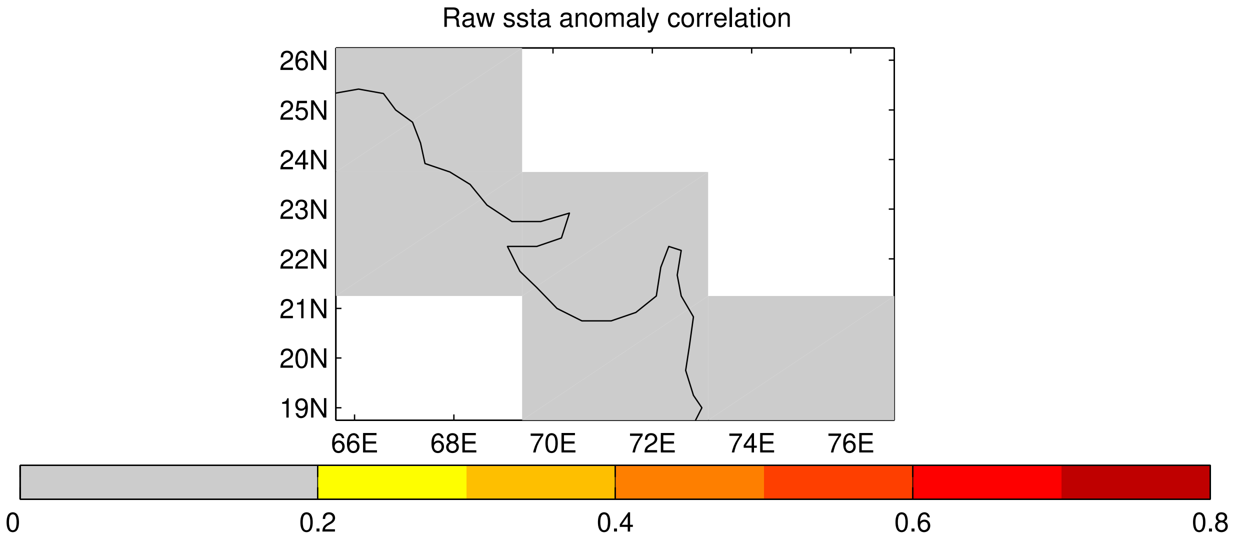
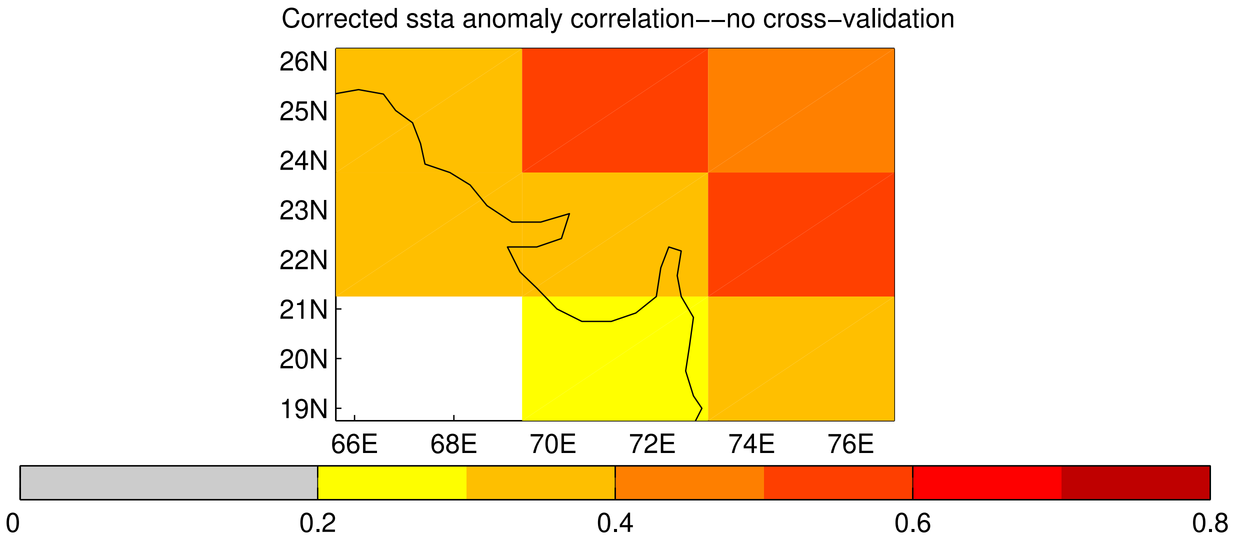
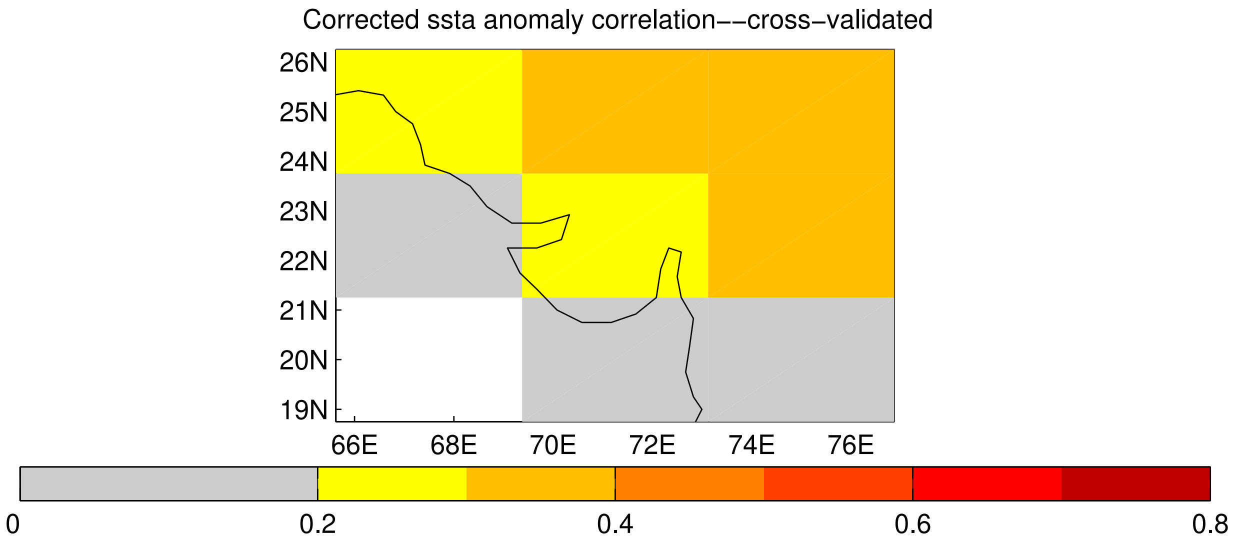

41% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4

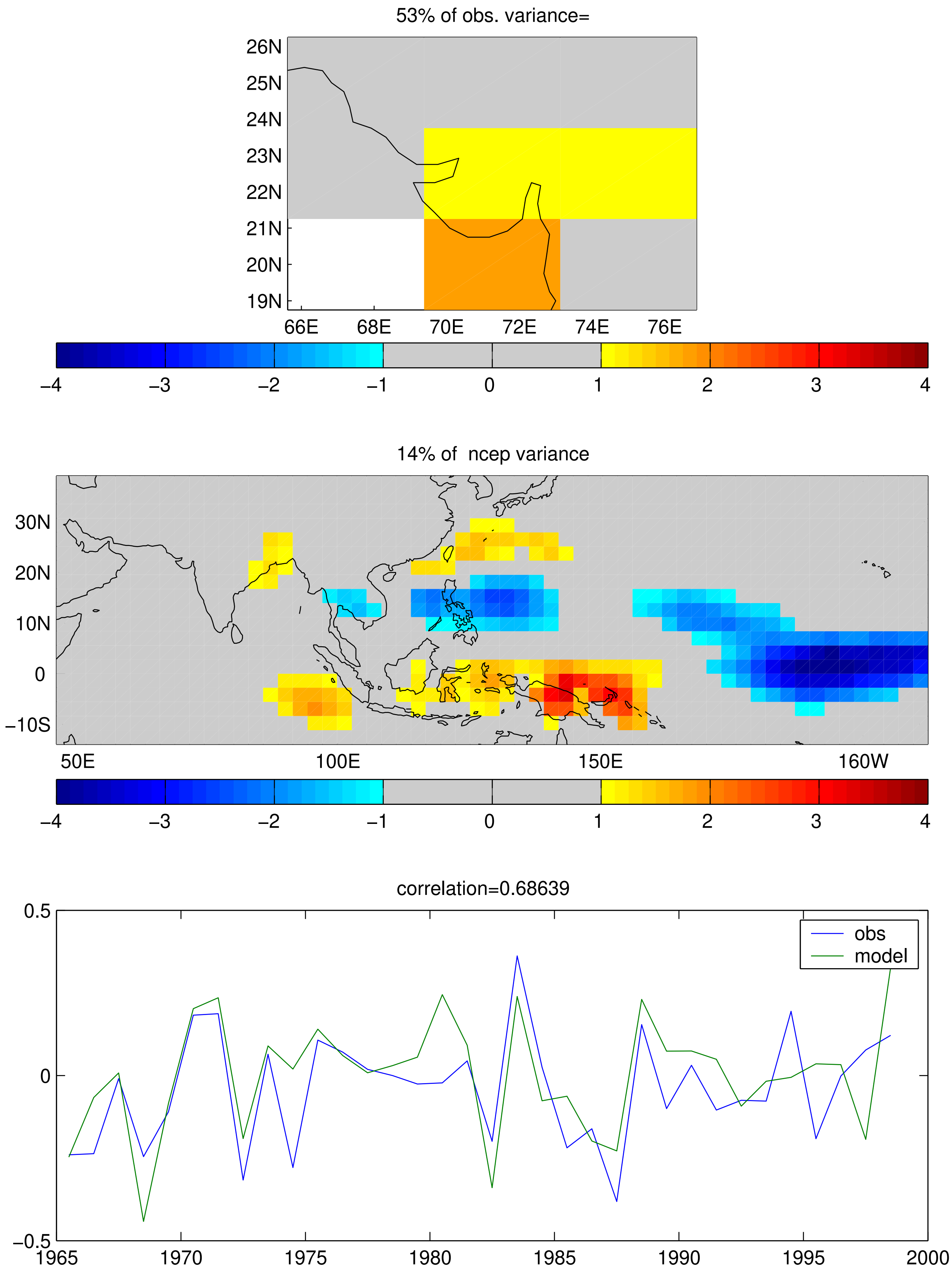

23% of ssta variance
30N
20N
10N
0
50E
100E
150E
160W
110W
−4
−3
−2
−1
0
1
2
3
4

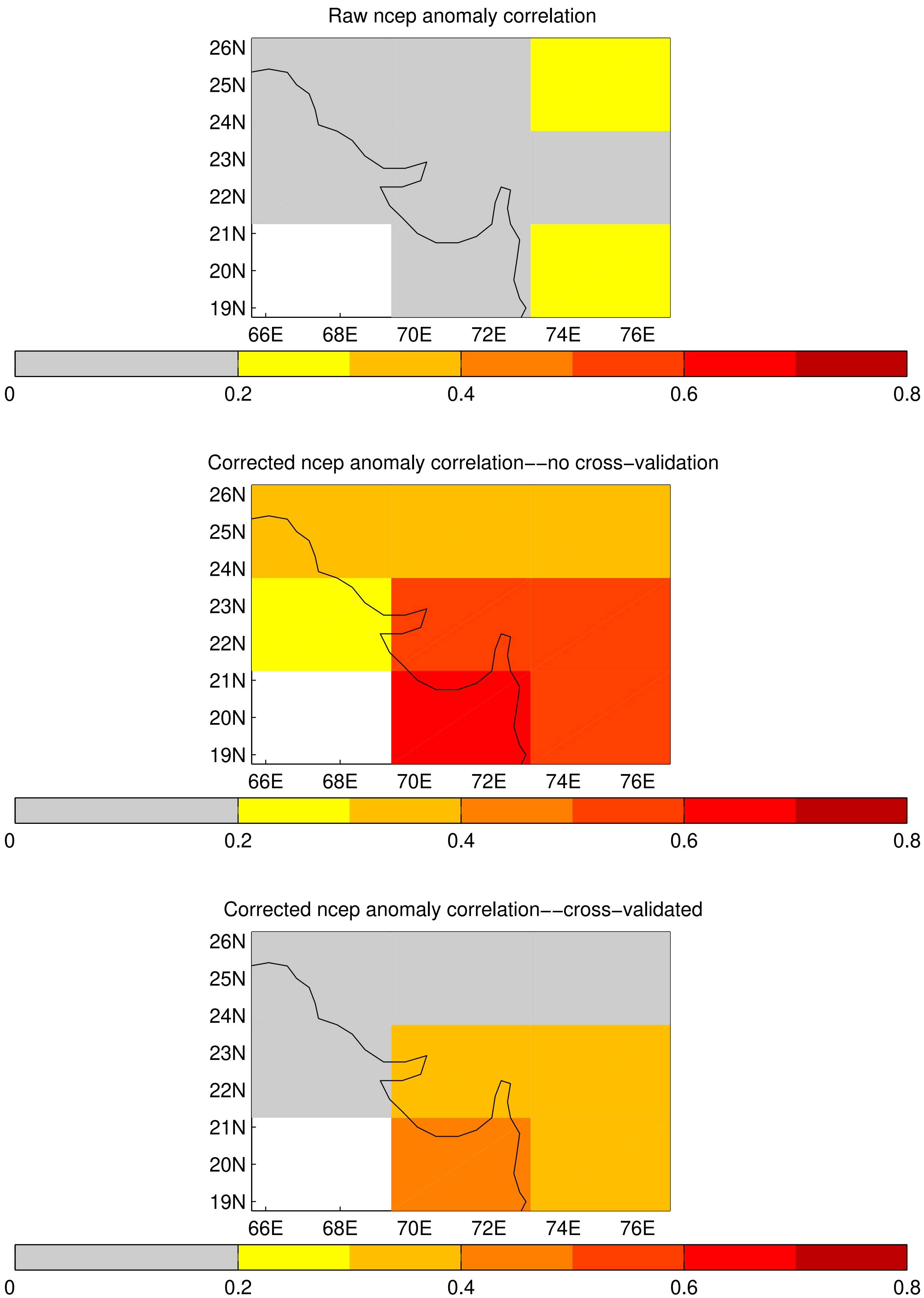

correlation=0.60273
0.5
0
−0.5
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
obs
model

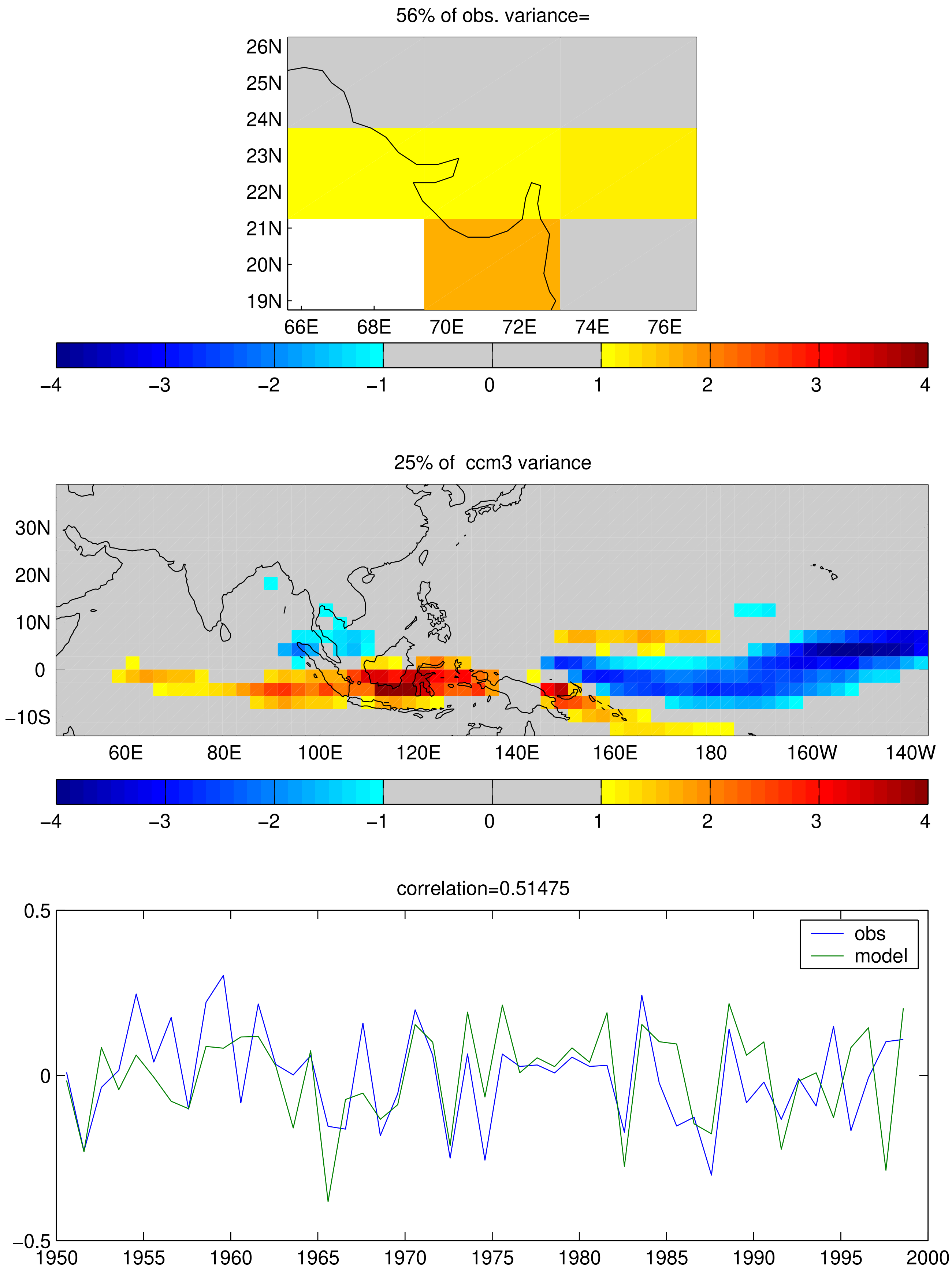

Raw ssta anomaly correlation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8


Corrected ssta anomaly correlation−−no cross−validation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8

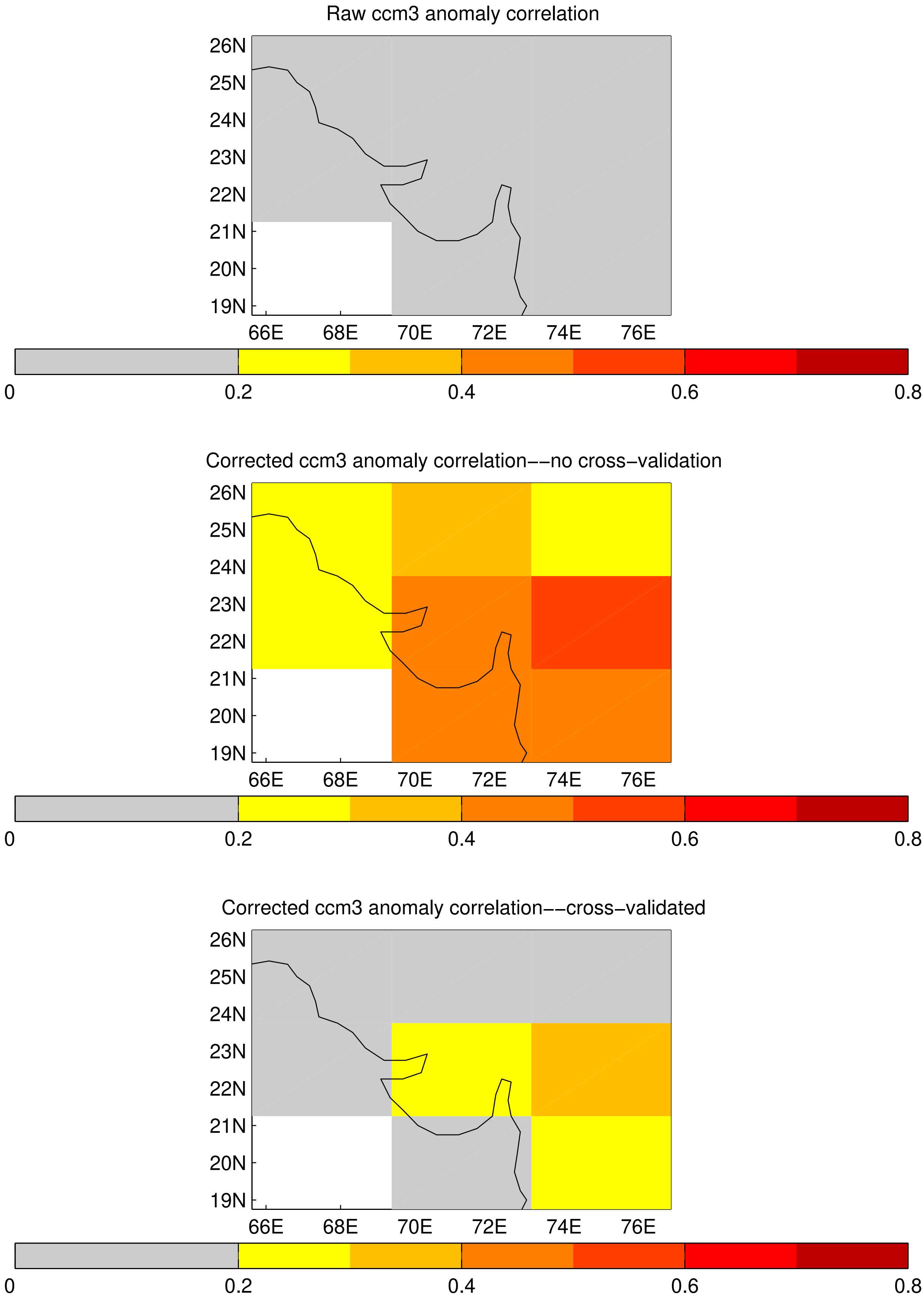

Corrected ssta anomaly correlation−−cross−validated
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8

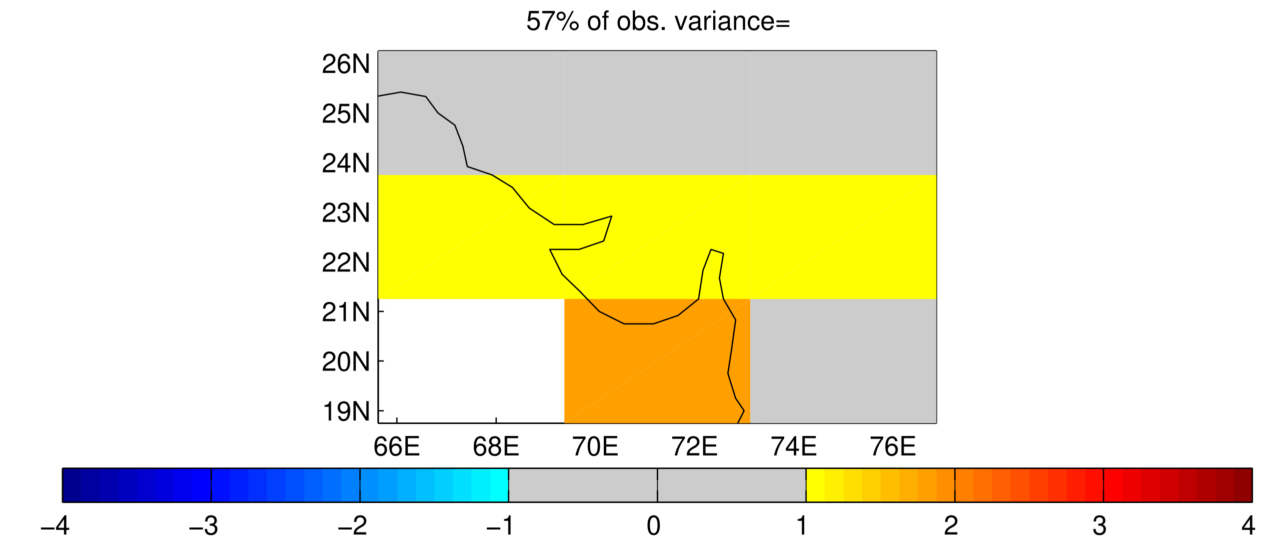

53% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4
14% of ncep variance
30N
20N
10N
0
−10S
50E
100E
150E
160W
−4
−3
−2
−1
0
1
2
3
4
correlation=0.68639
0.5
0
−0.5
1965
1970
1975
1980
1985
1990
1995
2000
obs
model

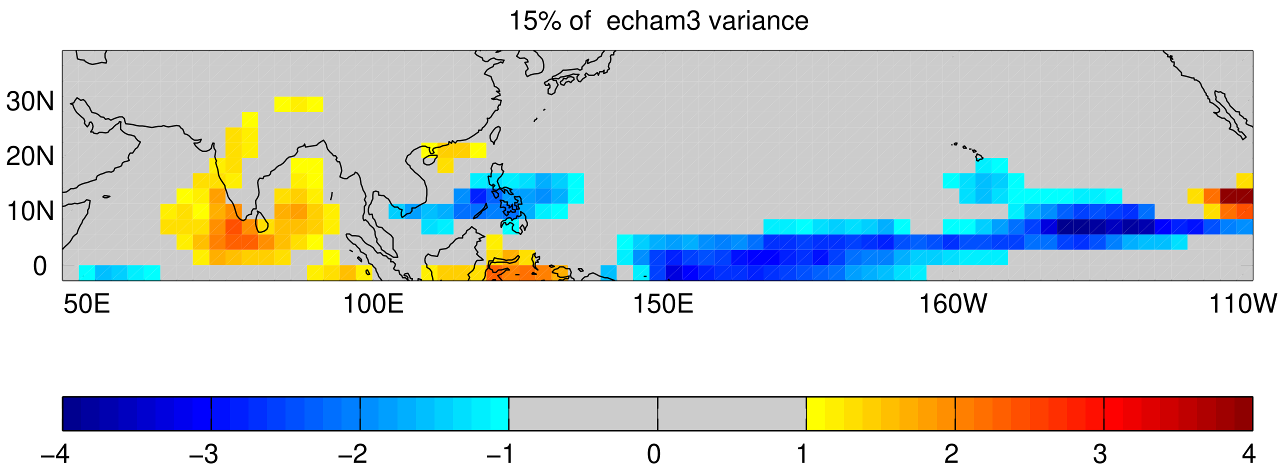

Raw ncep anomaly correlation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected ncep anomaly correlation−−no cross−validation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected ncep anomaly correlation−−cross−validated
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8

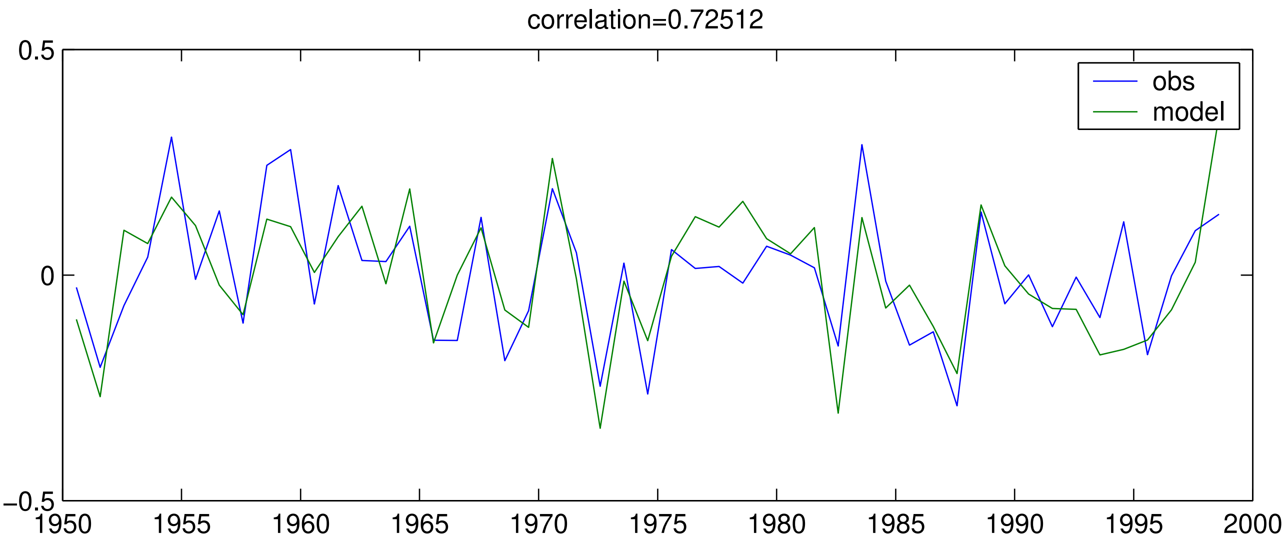


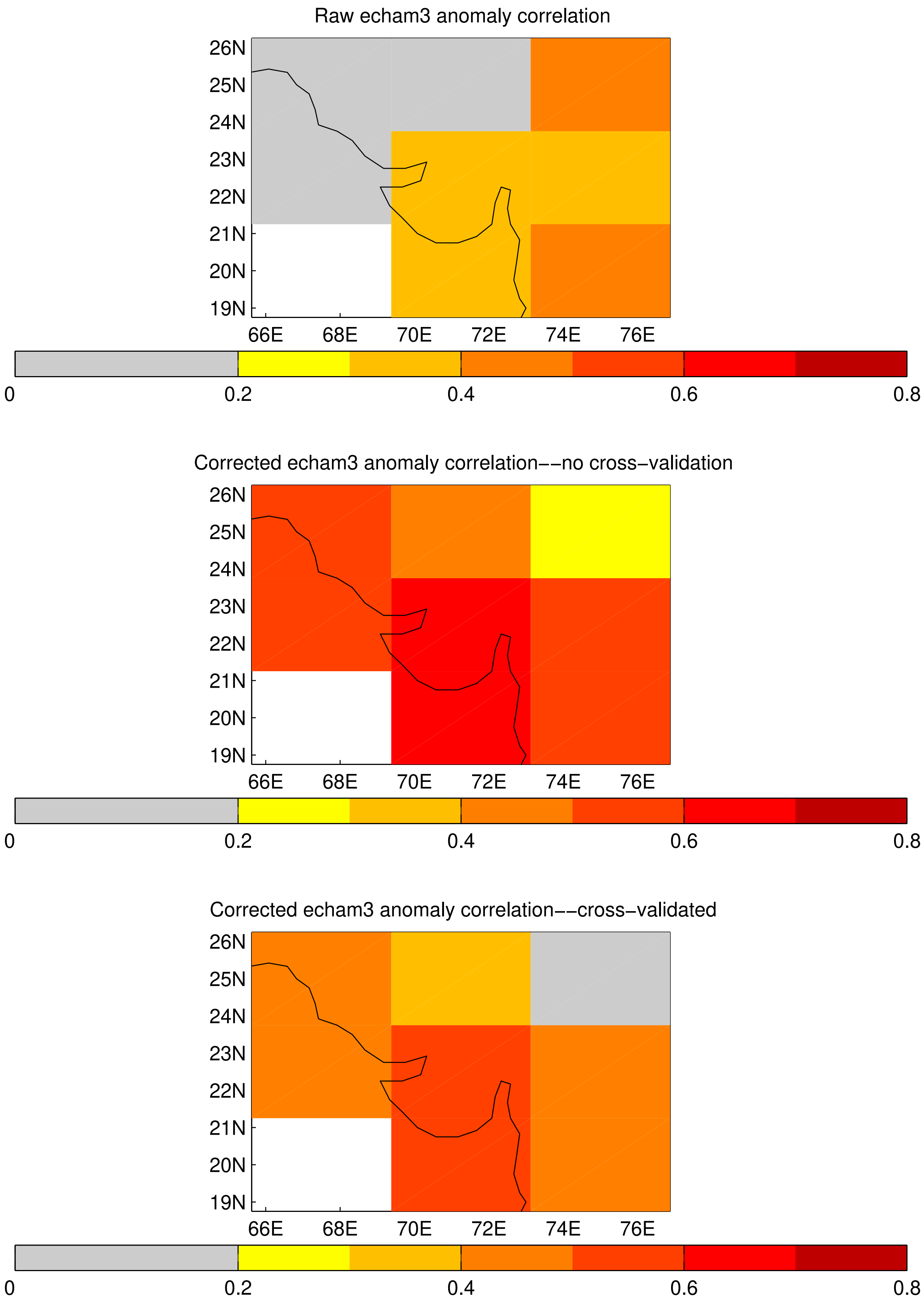
56% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4
25% of ccm3 variance
30N
20N
10N
0
−10S
60E
80E
100E
120E
140E
160E
180
160W
140W
−4
−3
−2
−1
0
1
2
3
4
correlation=0.51475
0.5
0
−0.5
obs
model
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000

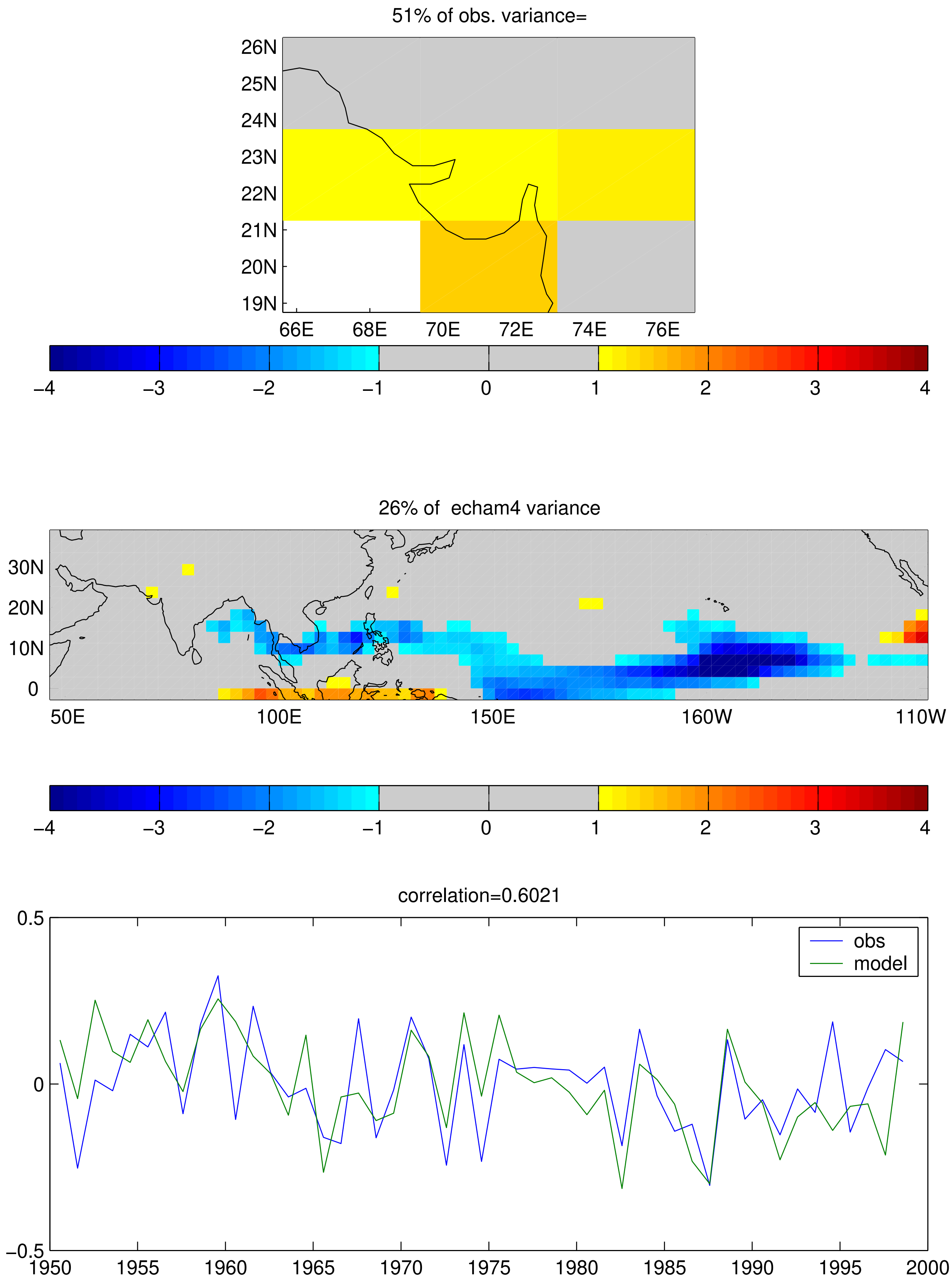

Raw ccm3 anomaly correlation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected ccm3 anomaly correlation−−no cross−validation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected ccm3 anomaly correlation−−cross−validated
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8


57% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4

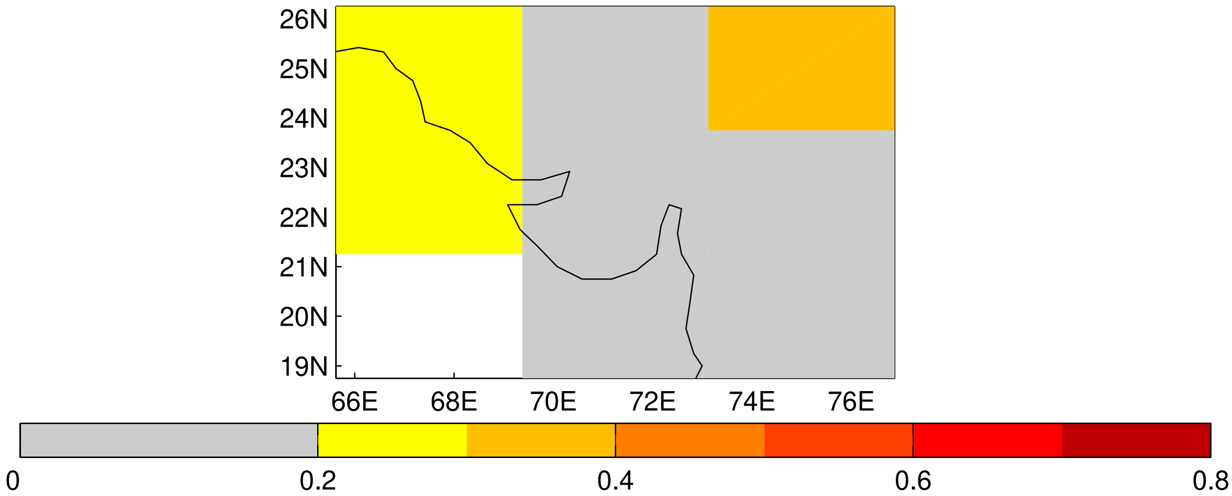

15% of echam3 variance
30N
20N
10N
0
50E
100E
150E
160W
110W
−4
−3
−2
−1
0
1
2
3
4


correlation=0.72512
0.5
0
−0.5
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
obs
model

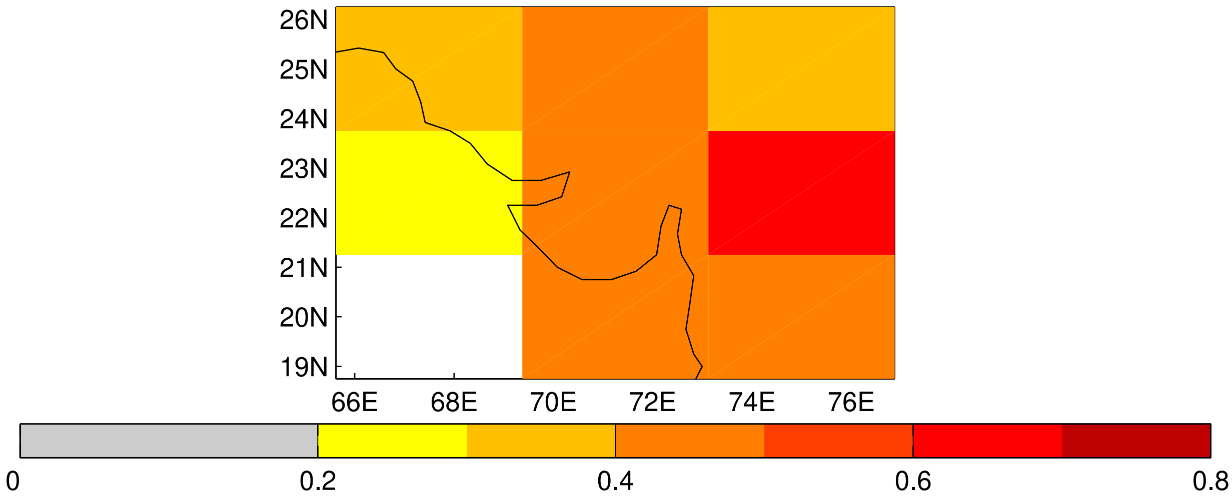

Raw echam3 anomaly correlation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected echam3 anomaly correlation−−no cross−validation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected echam3 anomaly correlation−−cross−validated
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8


51% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4
26% of echam4 variance
30N
20N
10N
0
50E
100E
150E
160W
110W
−4
−3
−2
−1
0
1
2
3
4
correlation=0.6021
obs
model
0.5
0
−0.5
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000

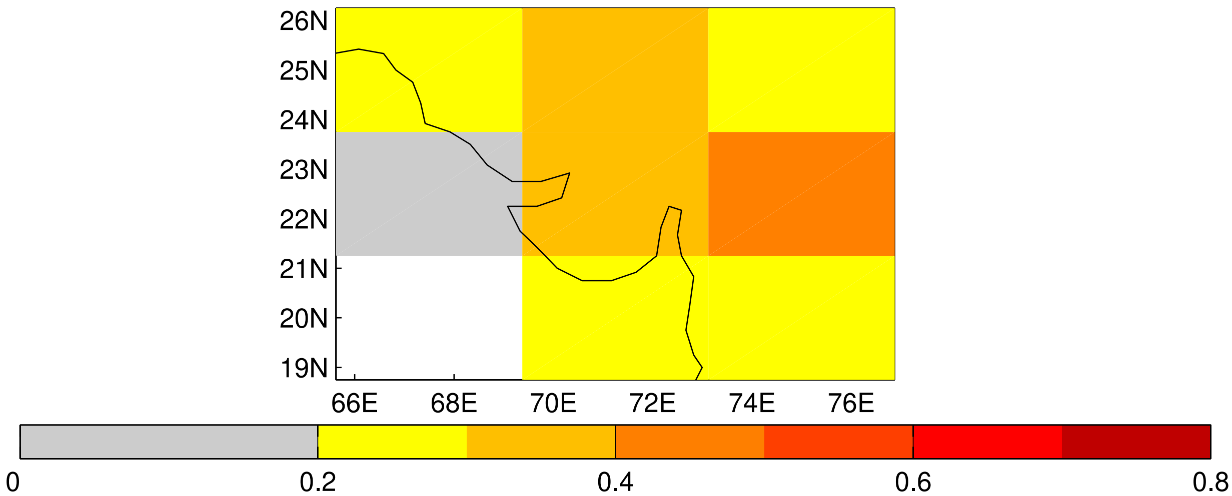
Raw echam4 anomaly correlation

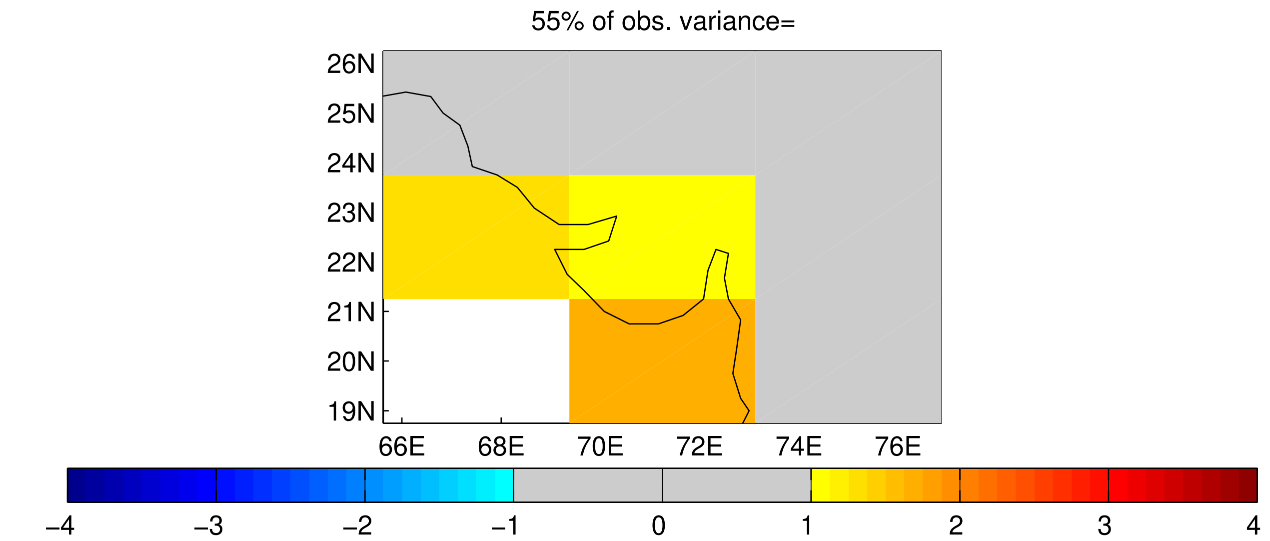


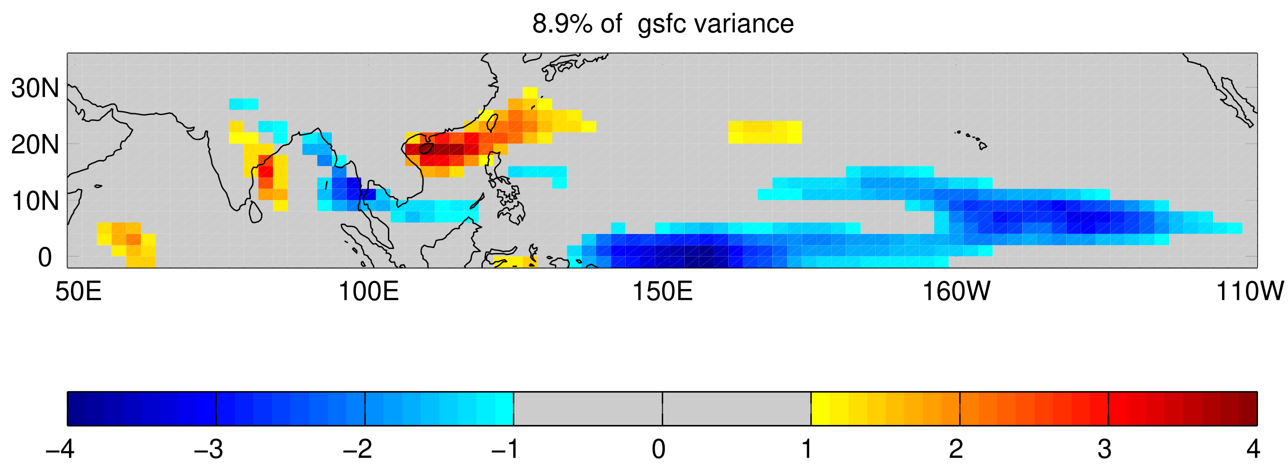
Corrected echam4 anomaly correlation−−no cross−validation

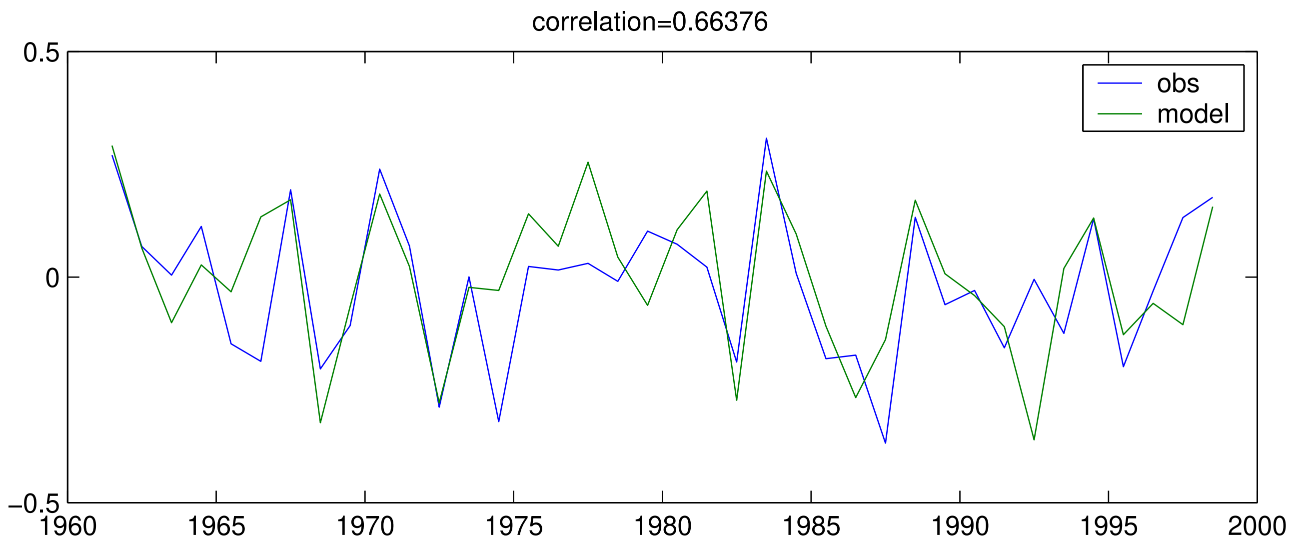


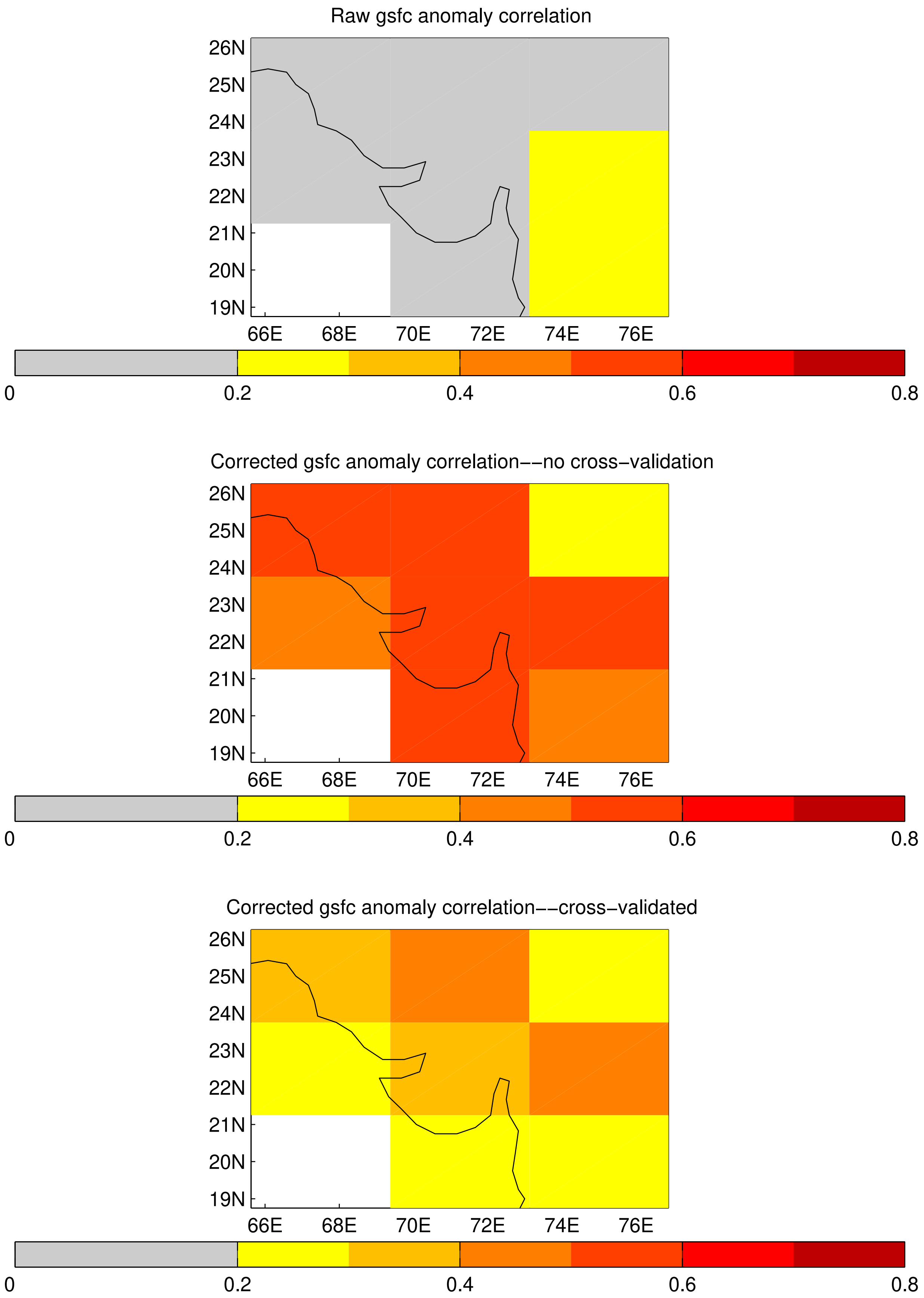
Corrected echam4 anomaly correlation−−cross−validated

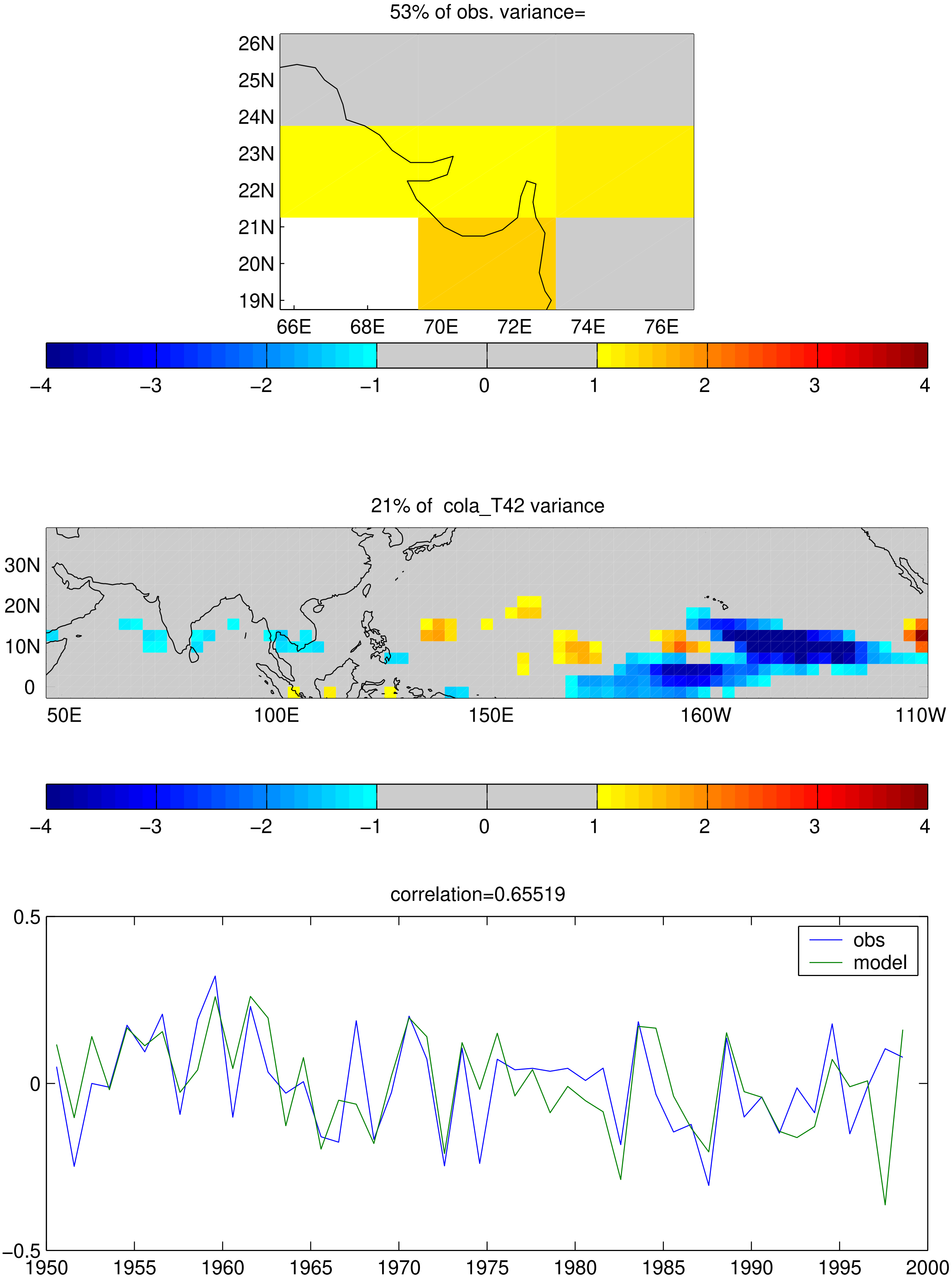


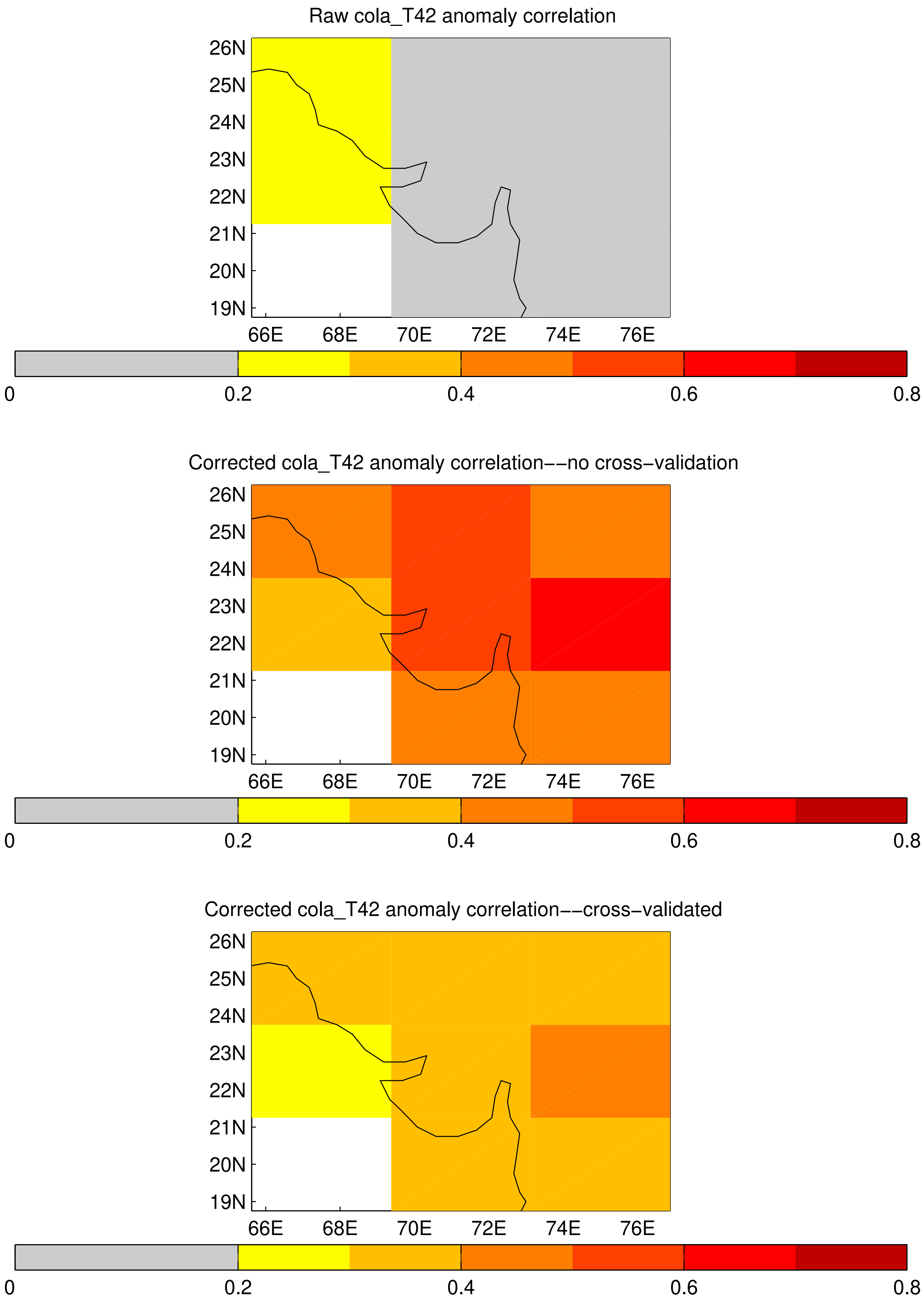

55% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4

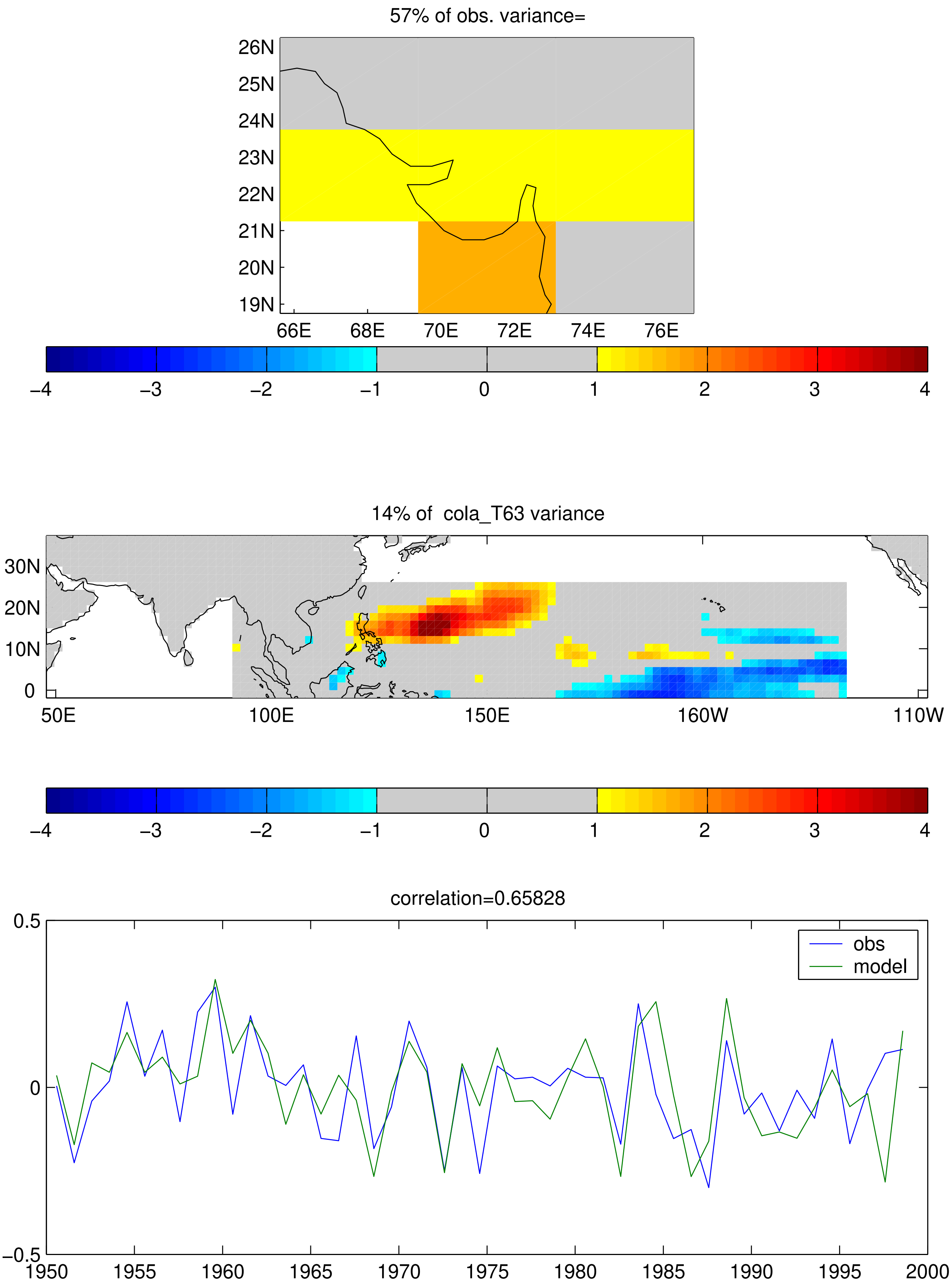

8.9% of gsfc variance
30N
20N
10N
0
50E
100E
150E
160W
110W
−4
−3
−2
−1
0
1
2
3
4


correlation=0.66376
obs
model
0.5
0
−0.5
1960
1965
1970
1975
1980
1985
1990
1995
2000

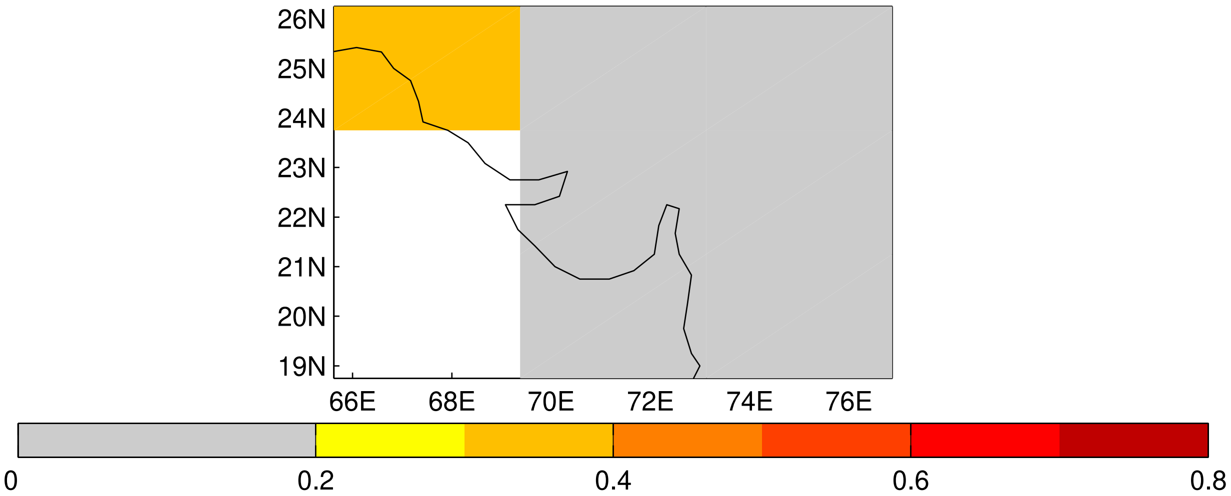

Raw gsfc anomaly correlation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected gsfc anomaly correlation−−no cross−validation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected gsfc anomaly correlation−−cross−validated
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8


53% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4
21% of cola_T42 variance
30N
20N
10N
0
50E
100E
150E
160W
110W
−4
−3
−2
−1
0
1
2
3
4
correlation=0.65519
0.5
0
−0.5
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
obs
model

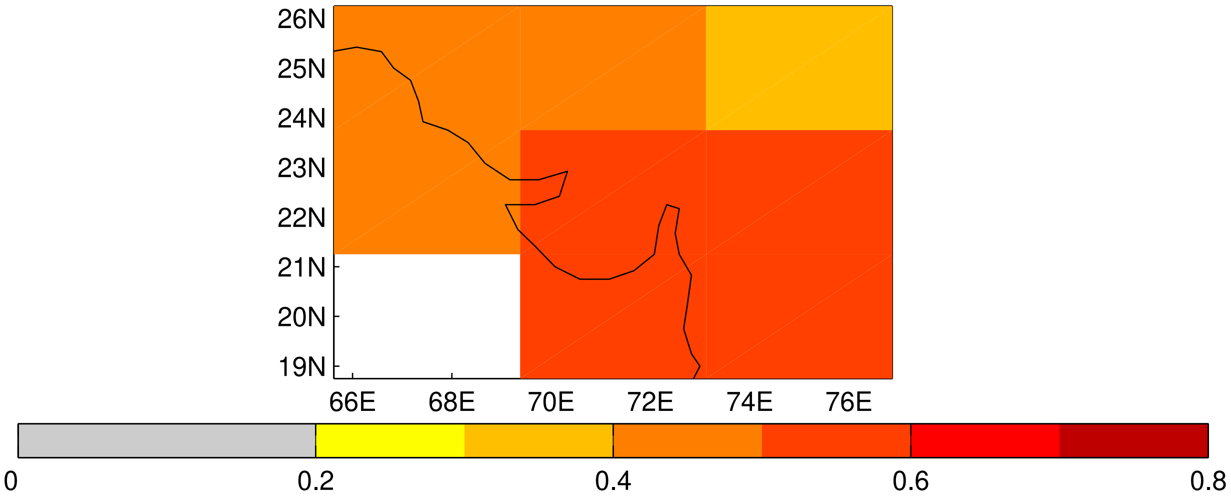

Raw cola_T42 anomaly correlation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected cola_T42 anomaly correlation−−no cross−validation
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8
Corrected cola_T42 anomaly correlation−−cross−validated
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
0
0.2
0.4
0.6
0.8


57% of obs. variance=
26N
25N
24N
23N
22N
21N
20N
19N
66E
68E
70E
72E
74E
76E
−4
−3
−2
−1
0
1
2
3
4
14% of cola_T63 variance
30N
20N
10N
0
50E
100E
150E
160W
110W
−4
−3
−2
−1
0
1
2
3
4
correlation=0.65828
0.5
0
−0.5
obs
model
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000

Raw cola_T63 anomaly correlation



Corrected cola_T63 anomaly correlation−−no cross−validation



Corrected cola_T63 anomaly correlation−−cross−validated