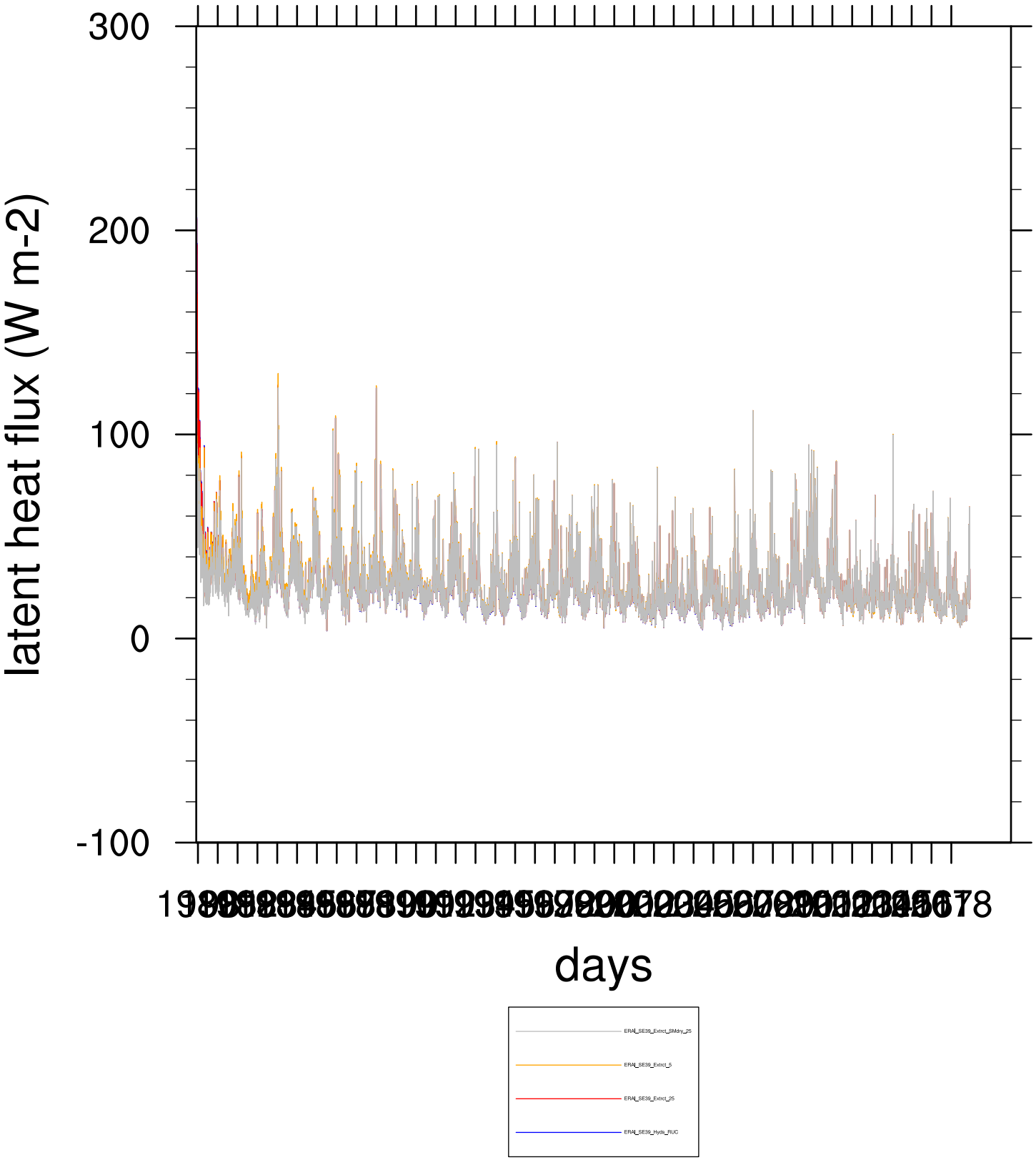
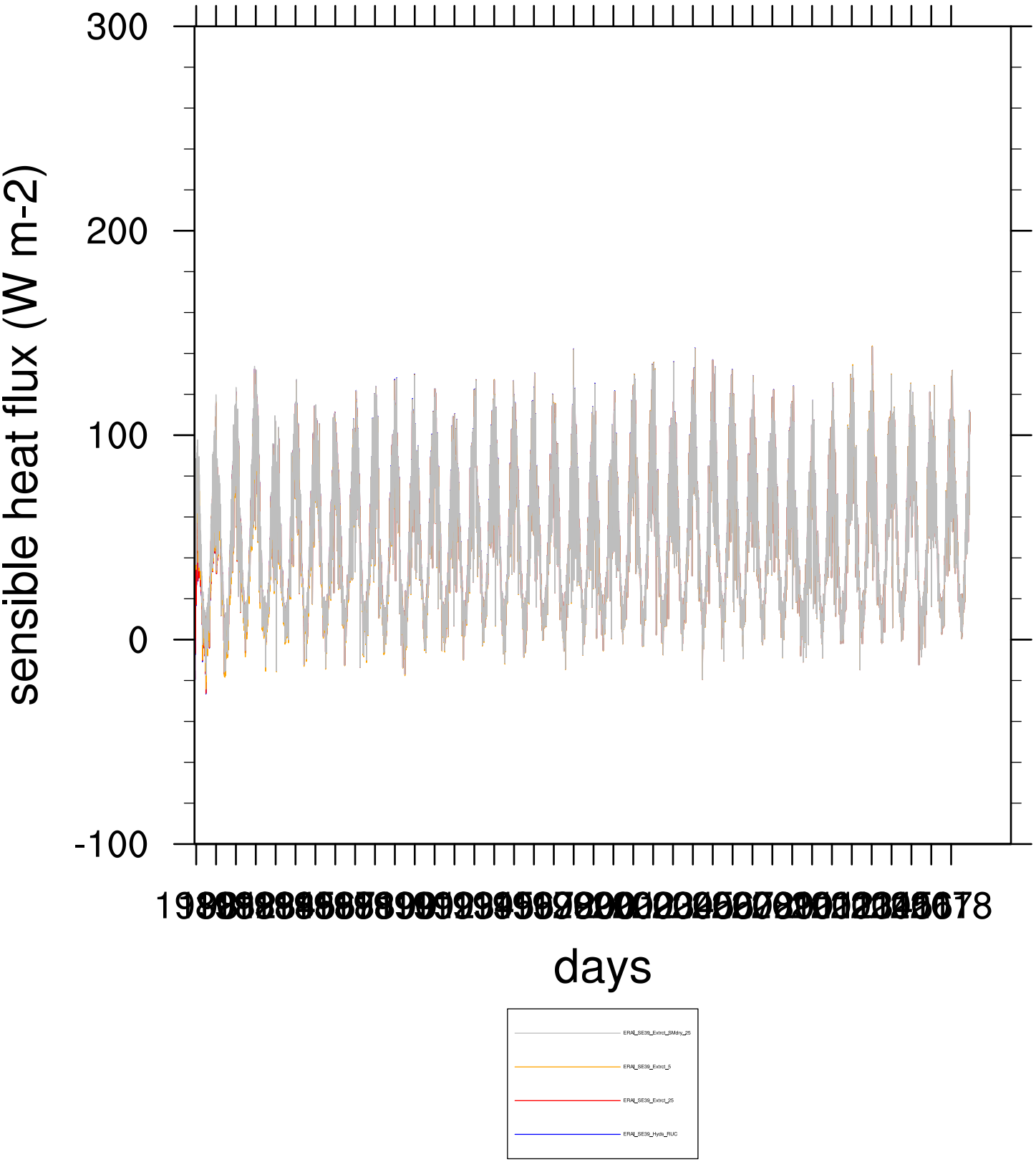
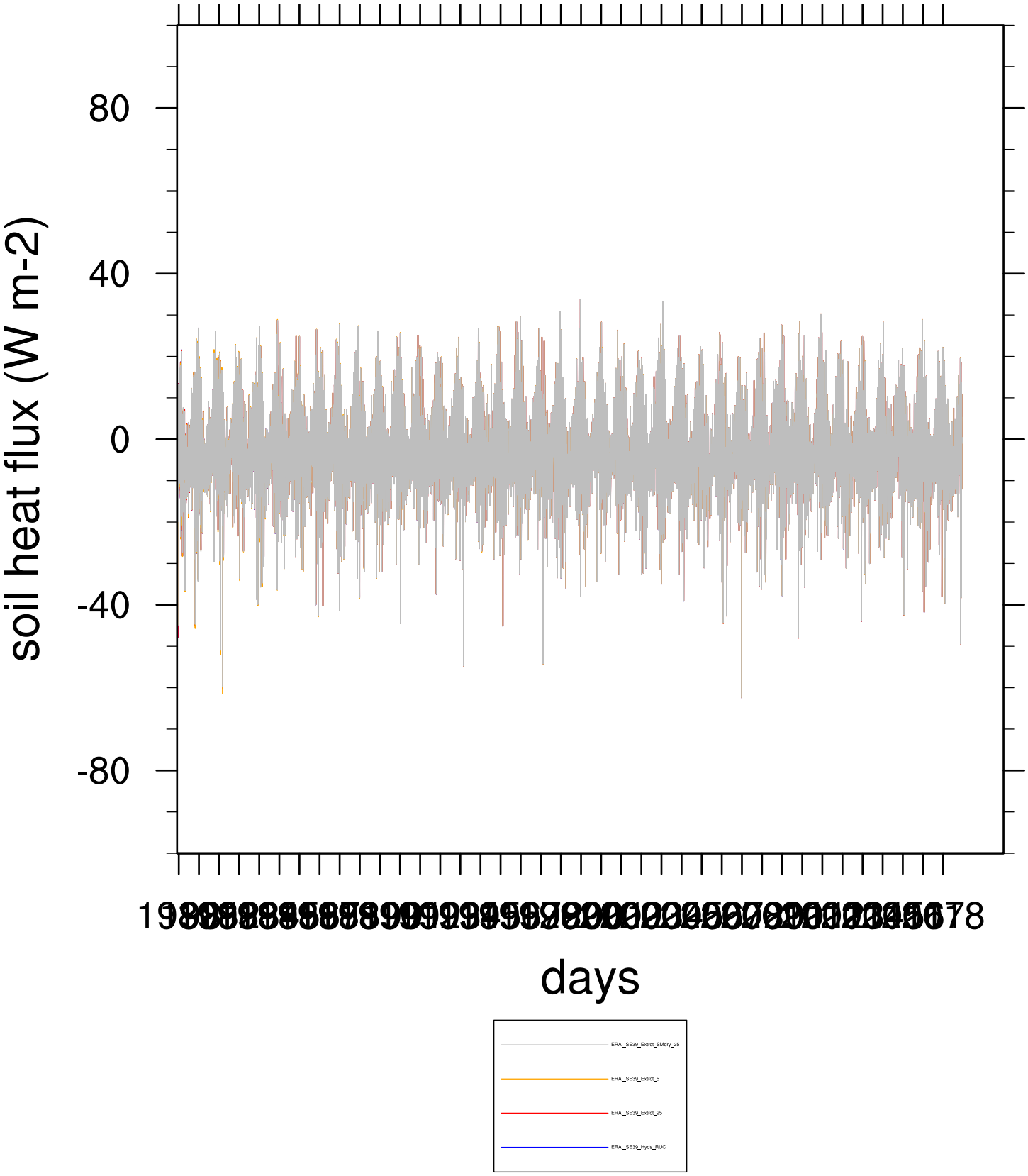
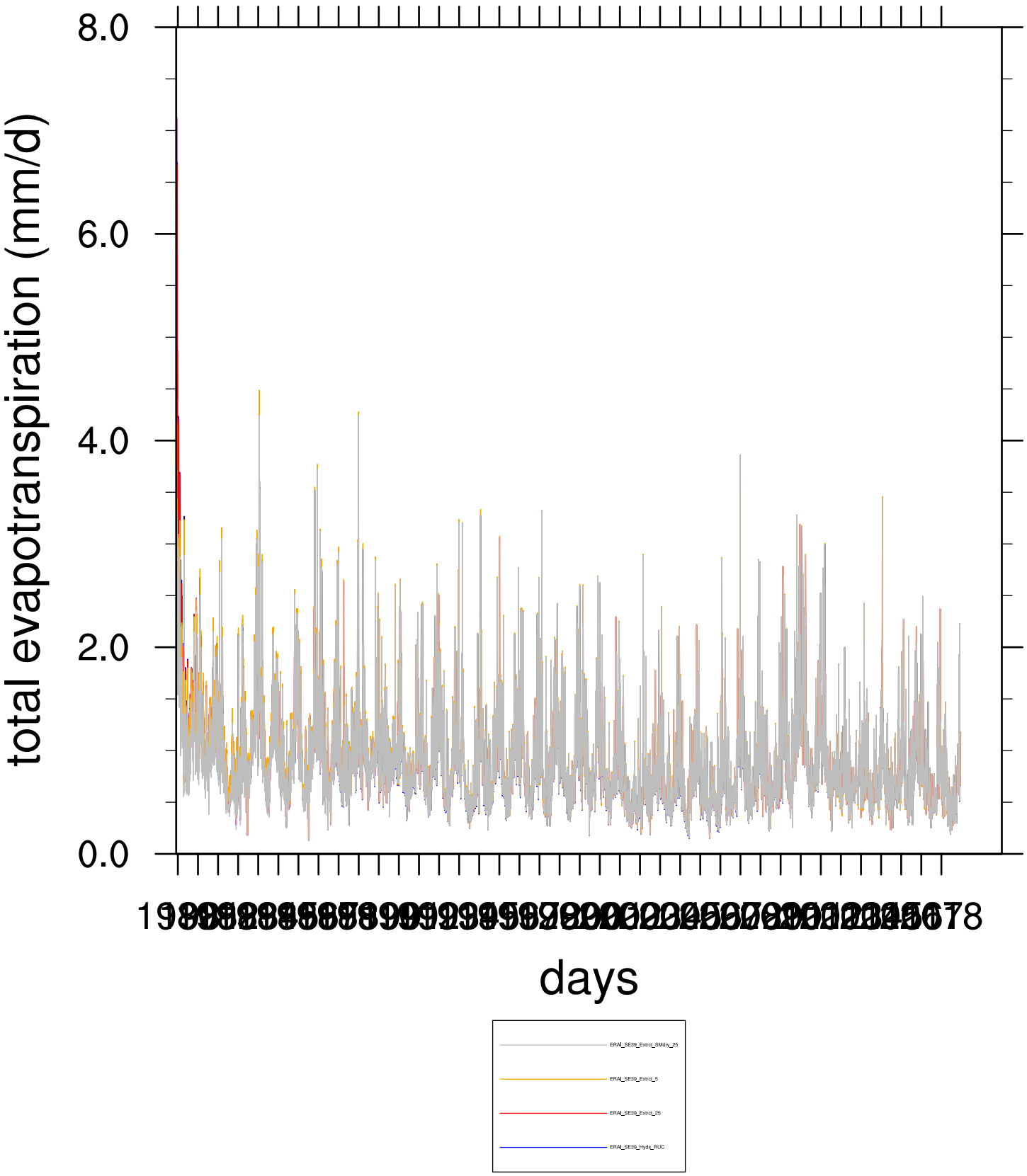
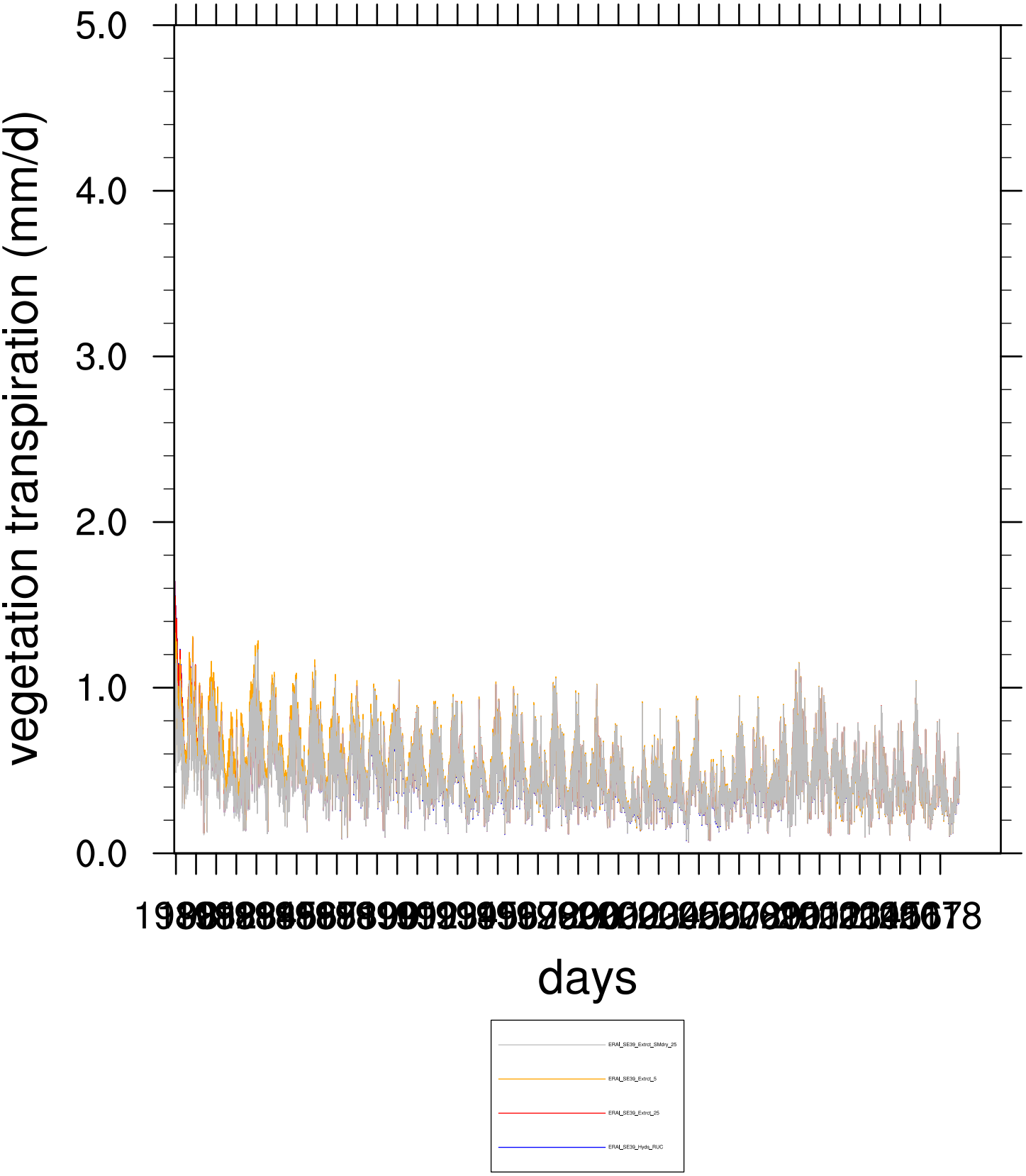
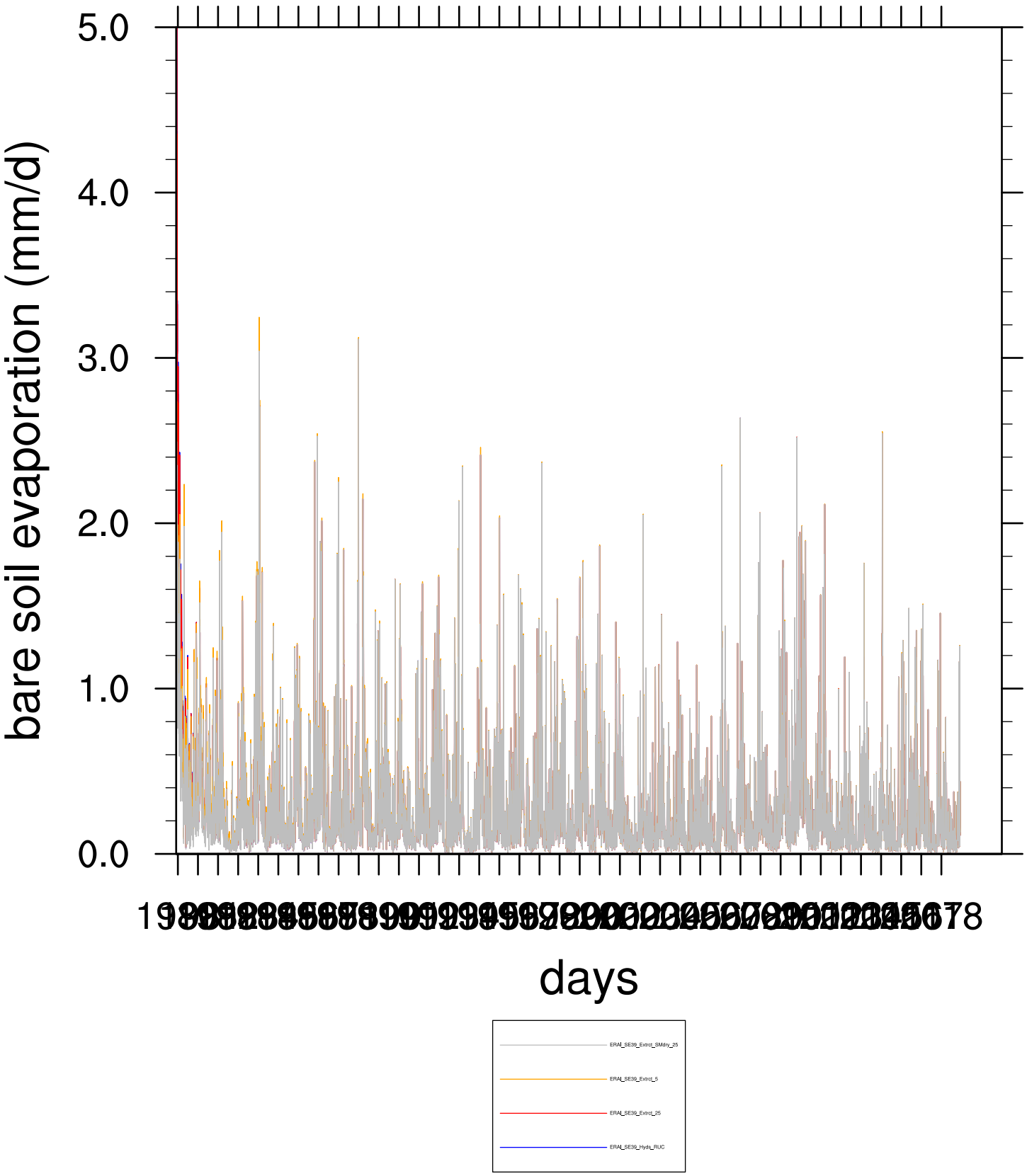

latent heat flux (W m-2)
300
200
100
0
-100
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hydis_RUC

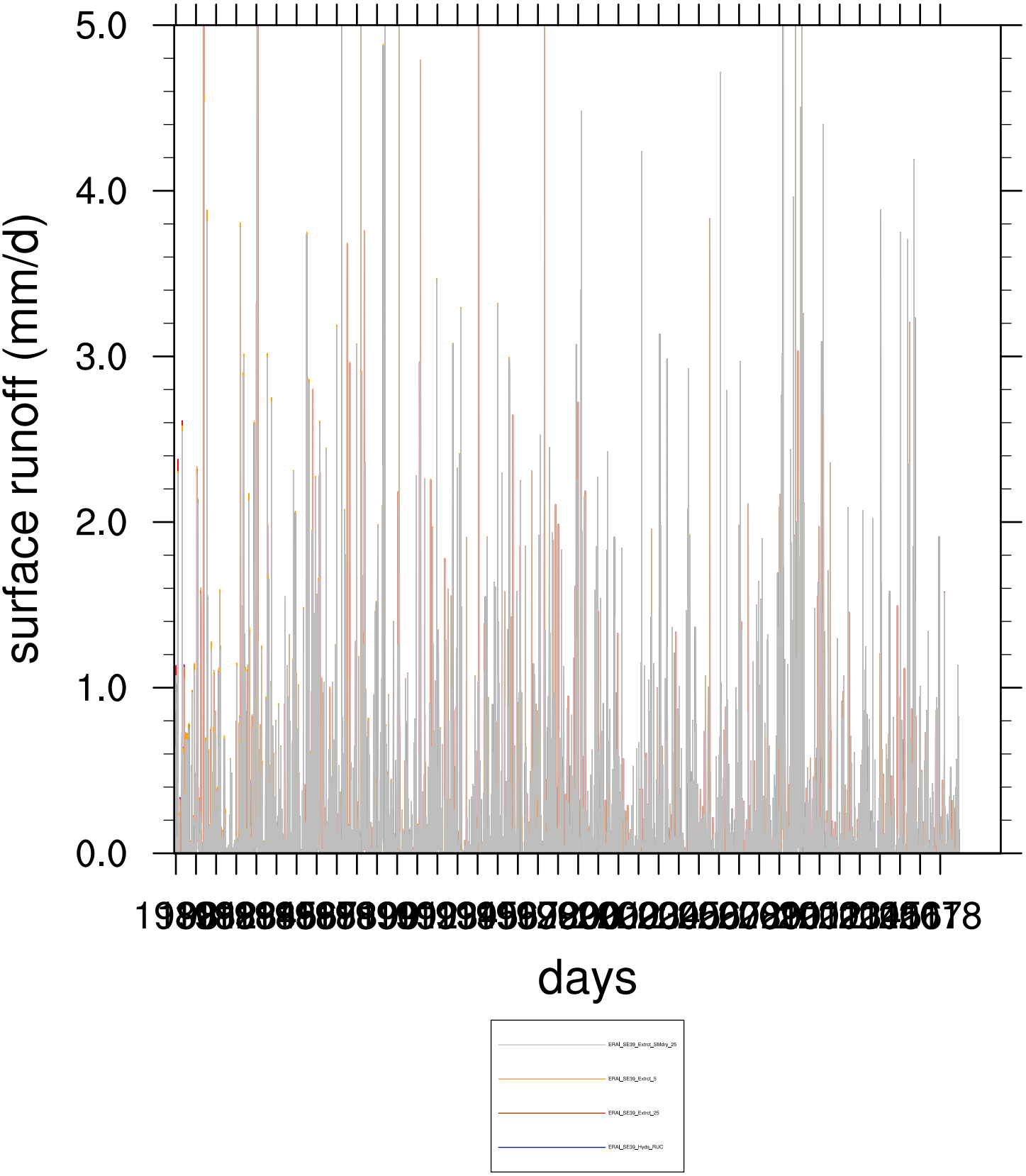

300
200
100
0
-100
sensible heat flux (W m-2)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hydis_RUC

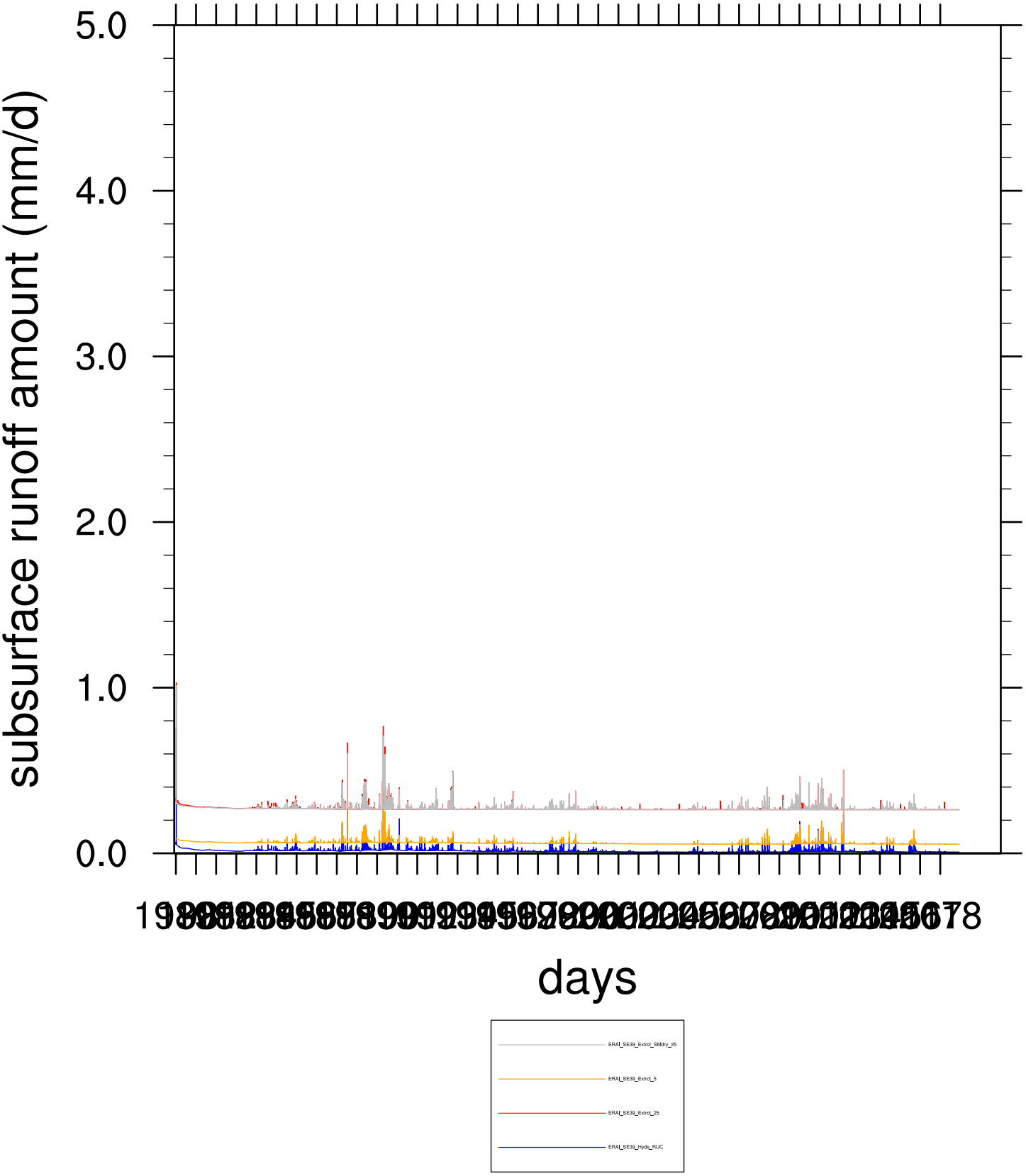

soil heat flux (W m-2)
80
40
0
-40
-80
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

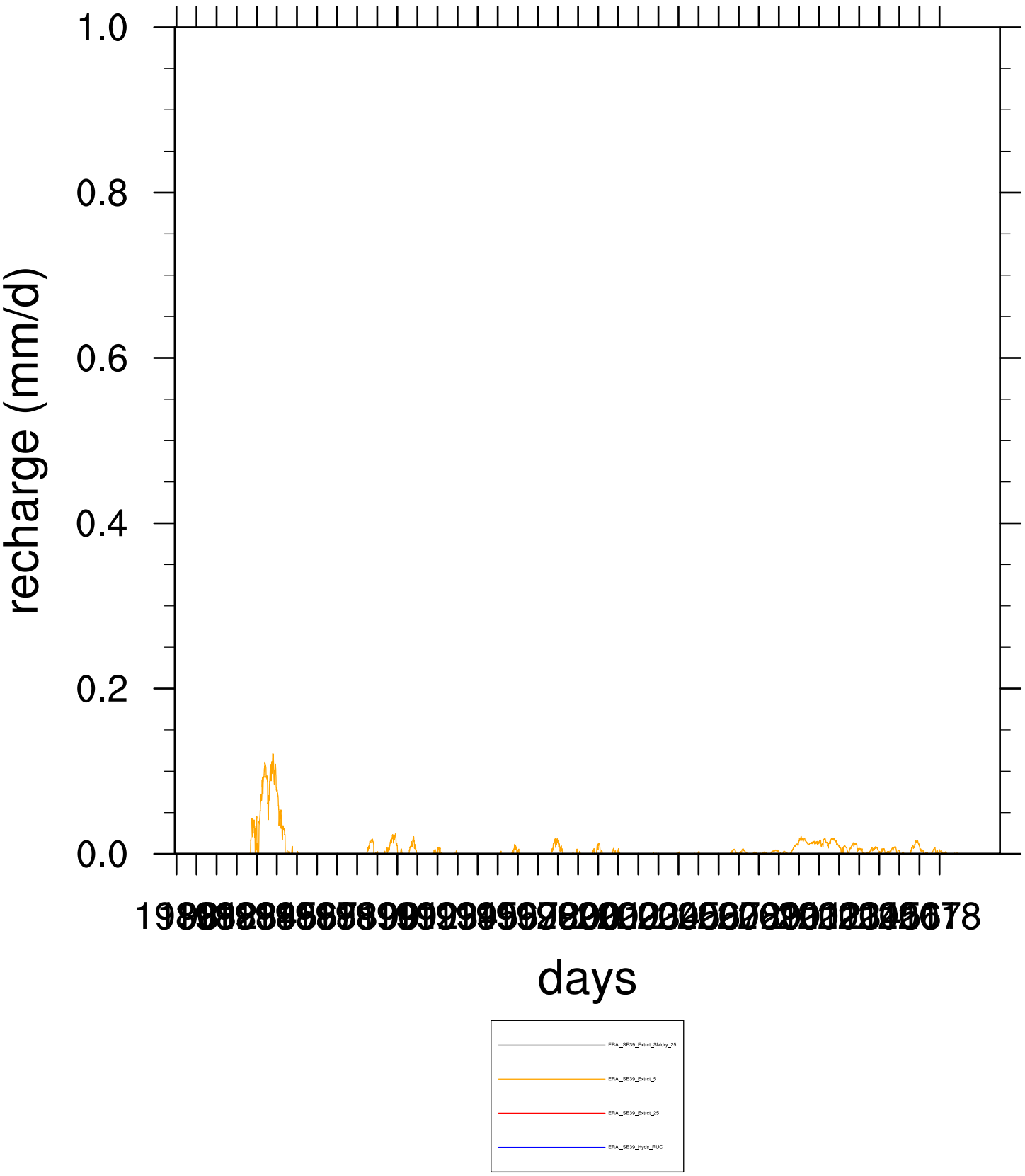

total evapotranspiration (mm/d)
8.0
6.0
4.0
2.0
0.0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

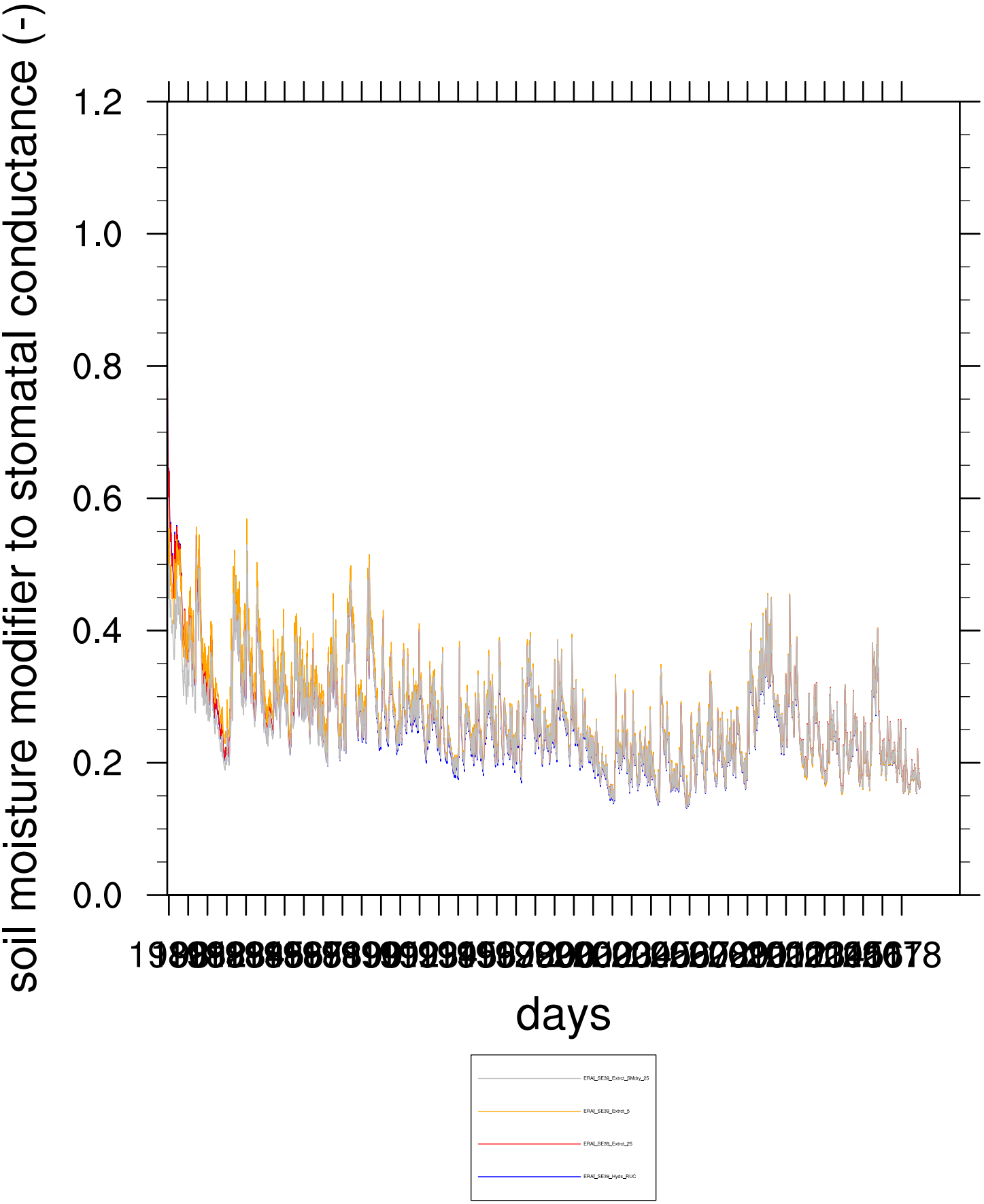

5.0
4.0
3.0
2.0
1.0
0.0
vegetation transpiration (mm/d)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

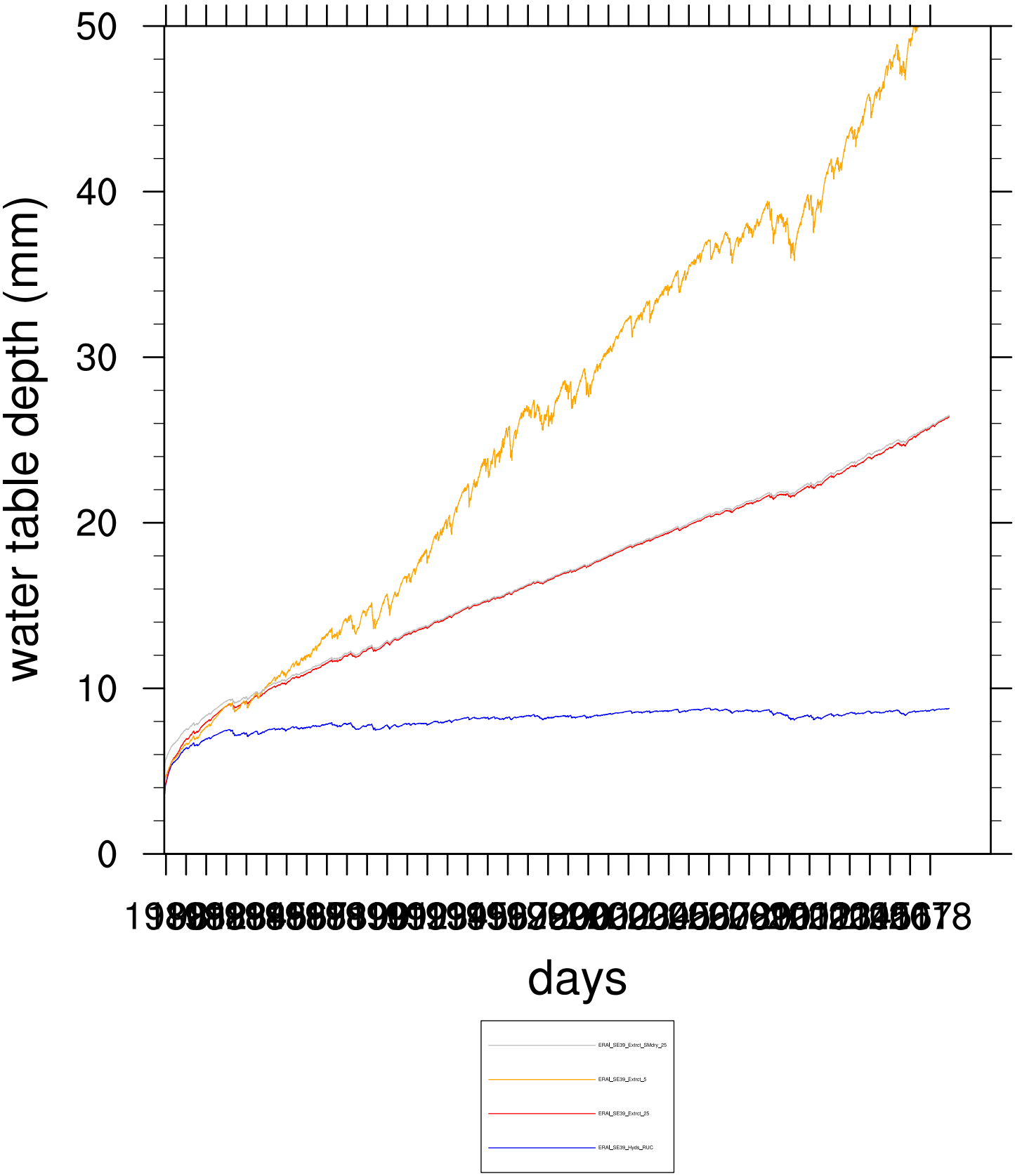

5.0
4.0
3.0
2.0
1.0
0.0
bare soil evaporation (mm/d)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

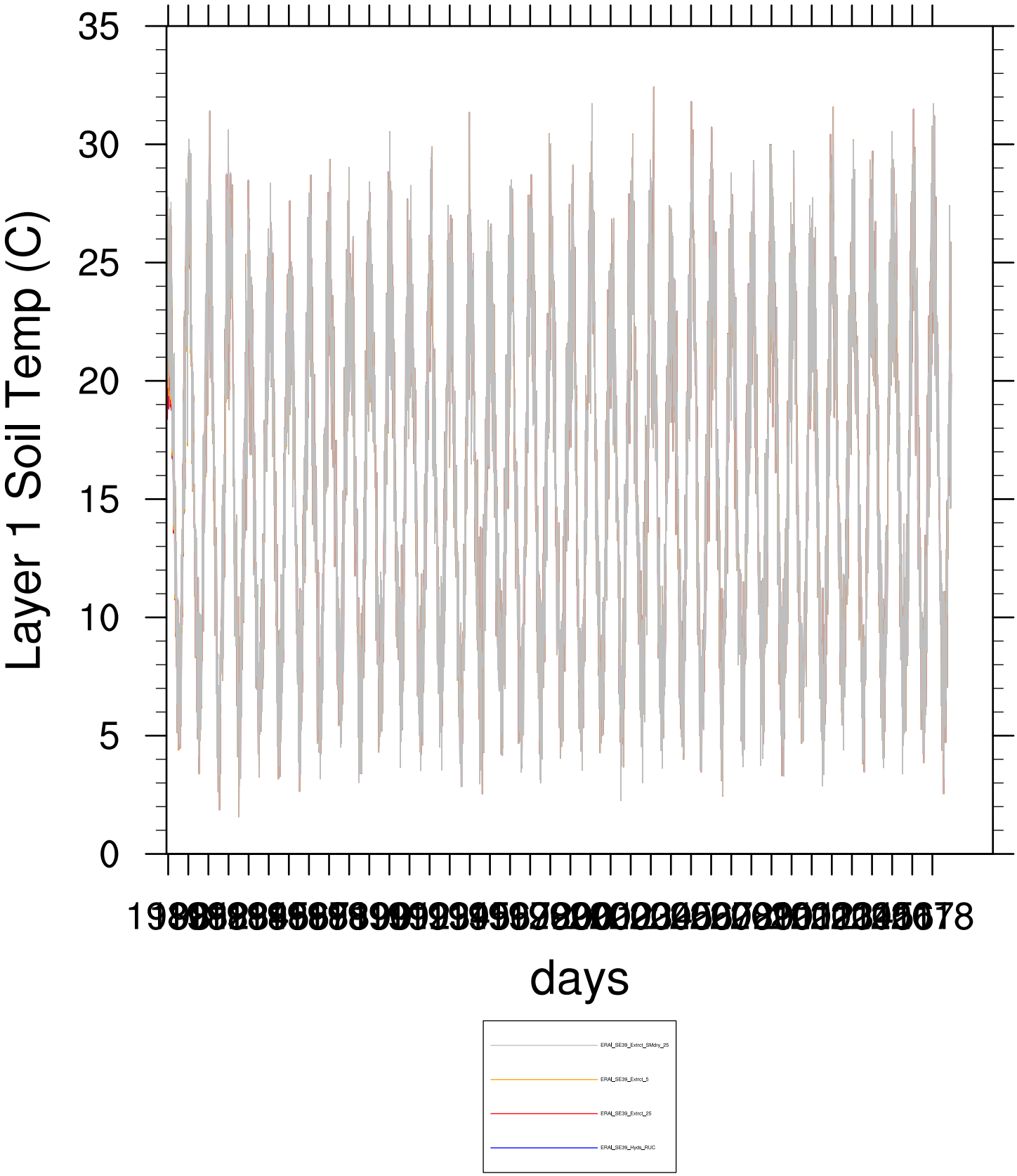

surface runoff (mm/d)
5.0
4.0
3.0
2.0
1.0
0.0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

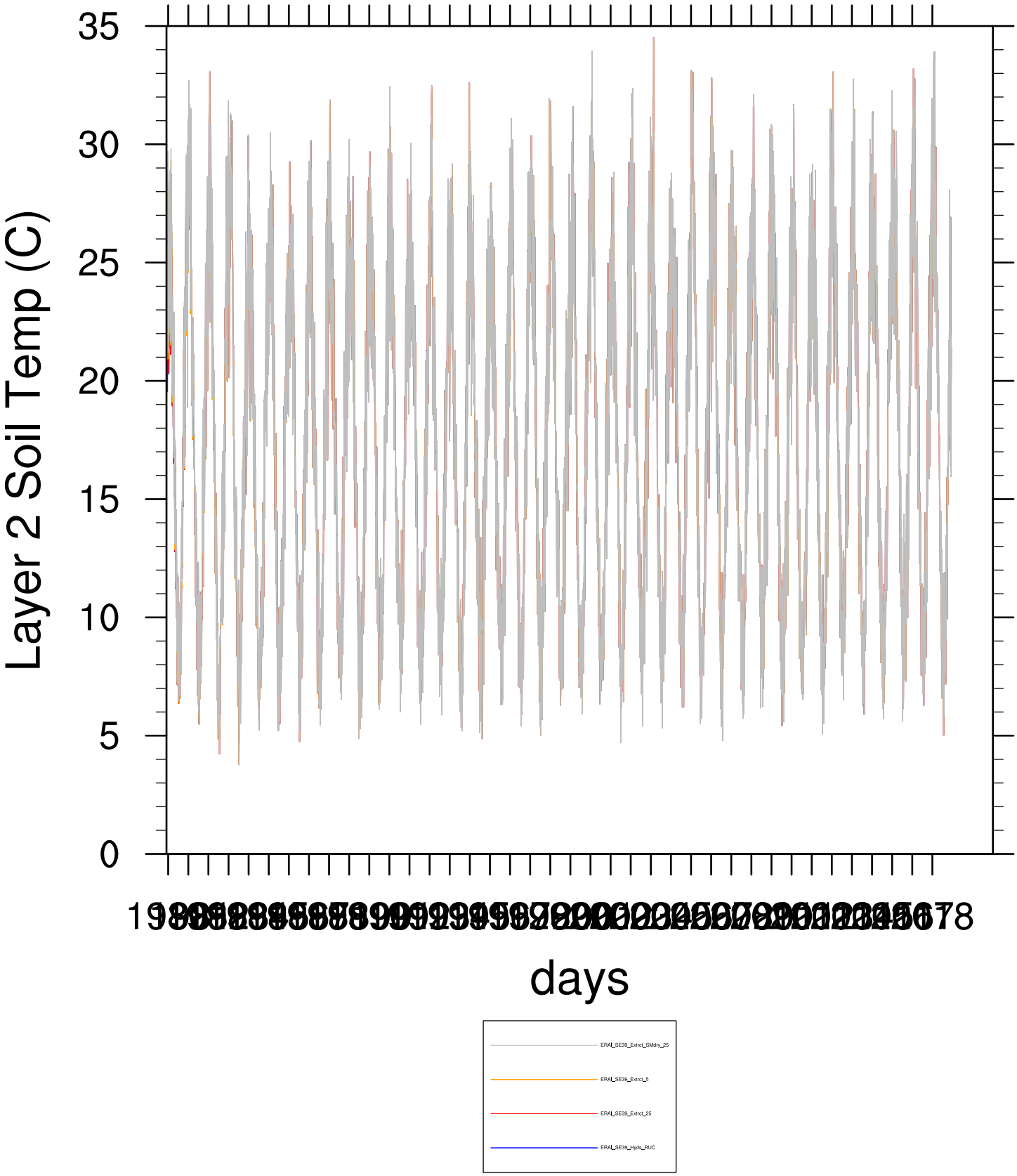

subsurface runoff amount (mm/d)
5.0
4.0
3.0
2.0
1.0
0.0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

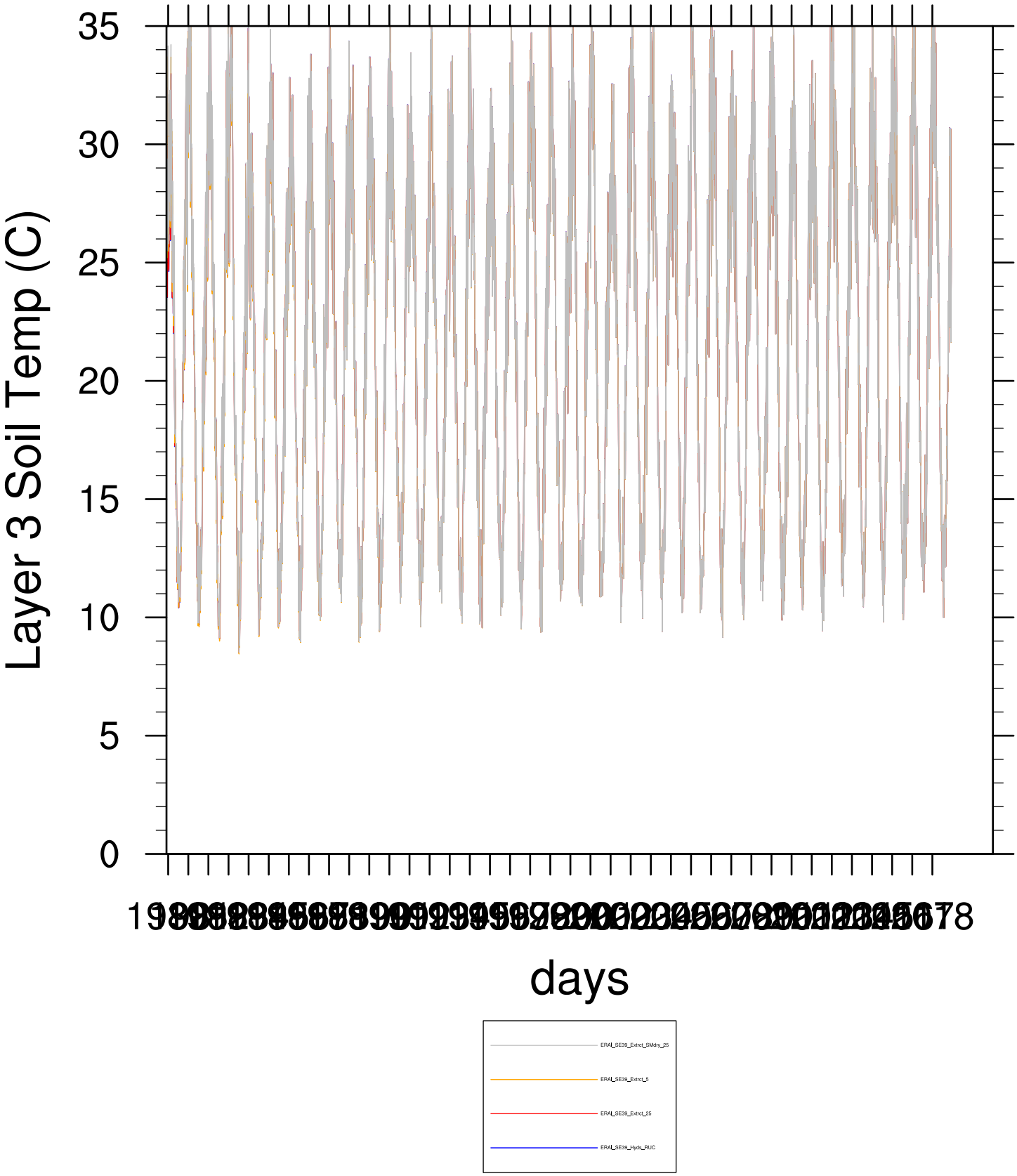

1.0
0.8
0.6
0.4
0.2
0.0
recharge (mm/d)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

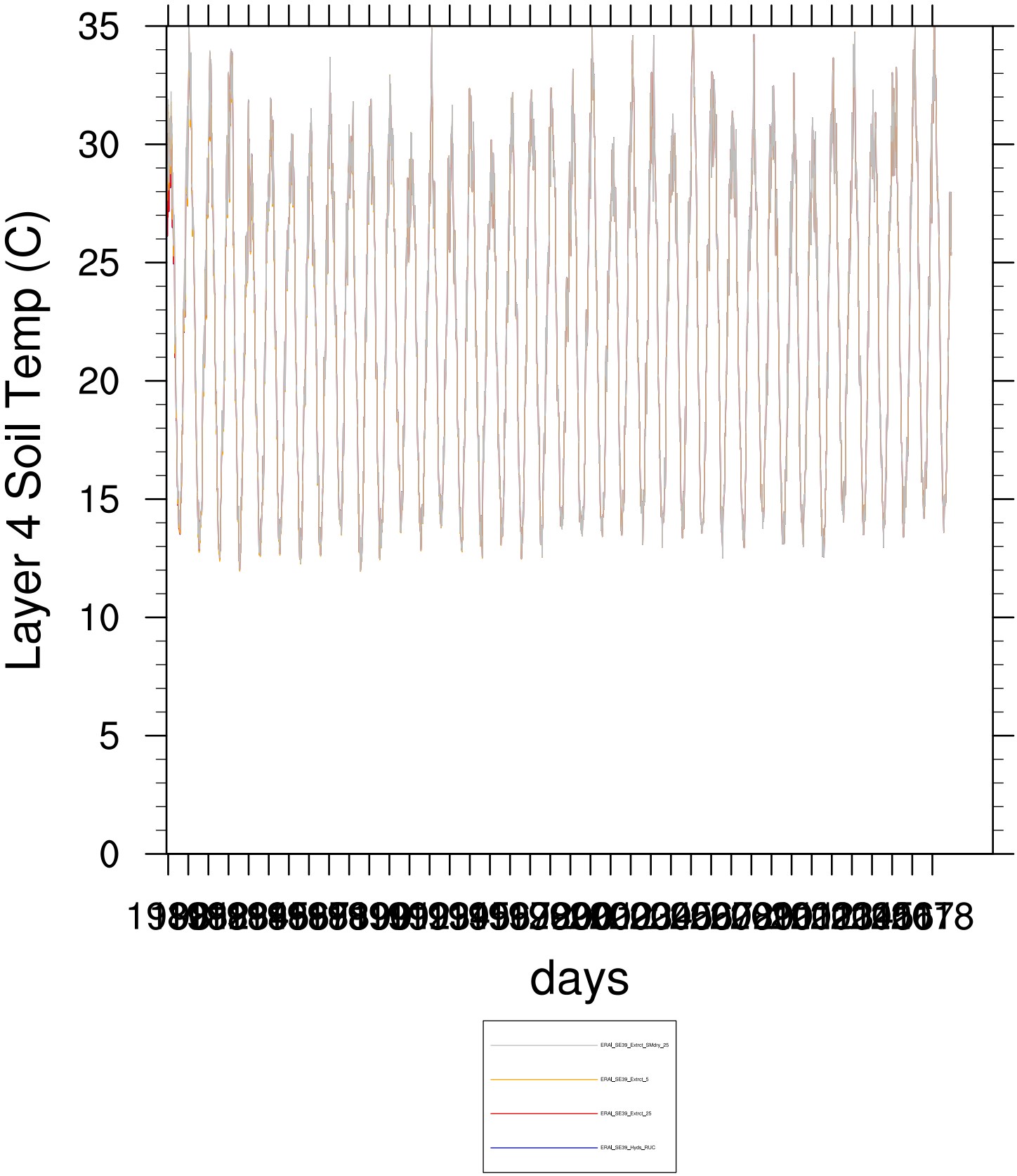

soil moisture modifier to stomatal conductance (-)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

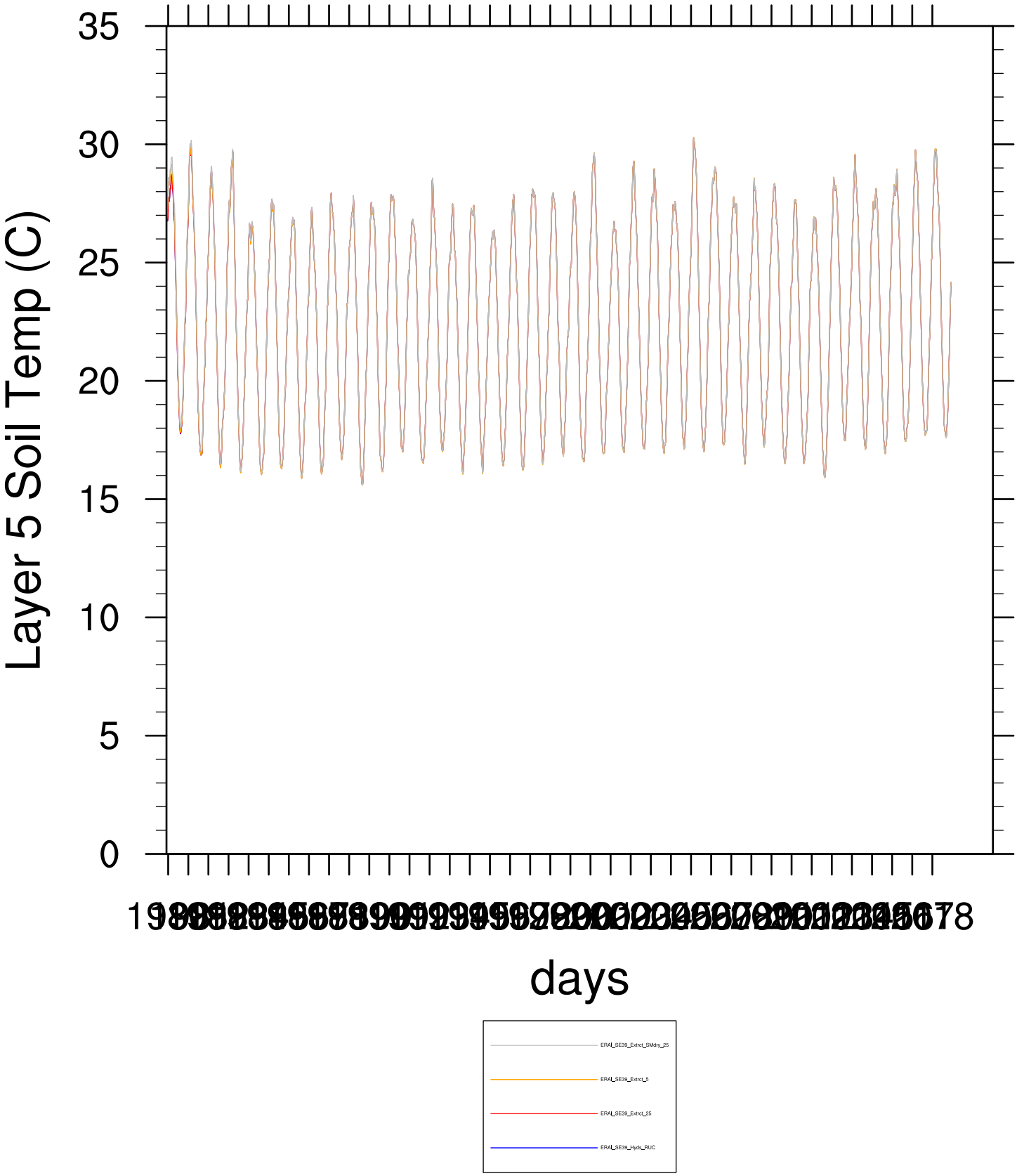

water table depth (mm)
50
40
30
20
10
0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

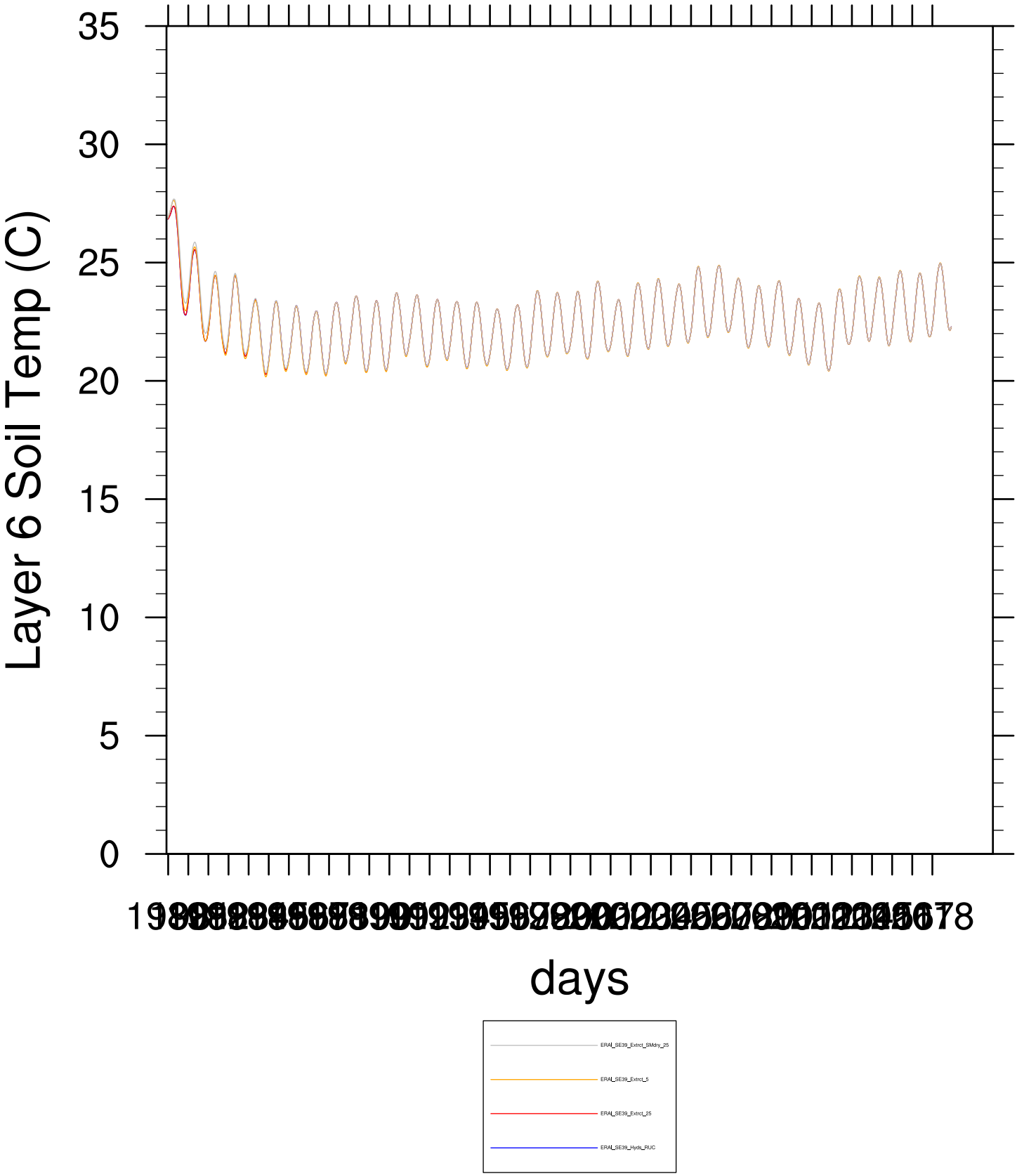

Layer 1 Soil Temp (C)
35
30
25
20
15
10
5
0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

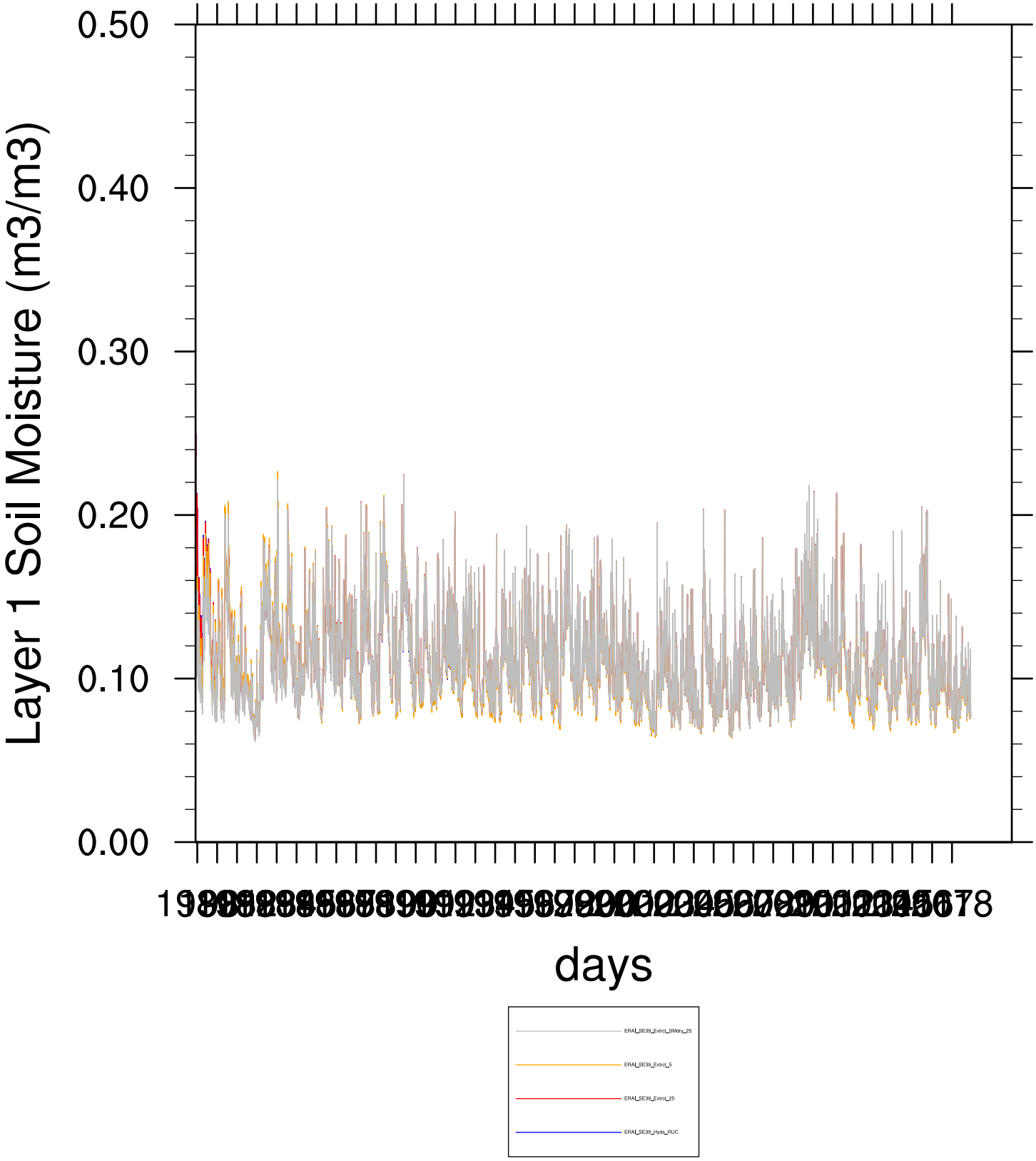

Layer 2 Soil Temp (C)
35
30
25
20
15
10
5
0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

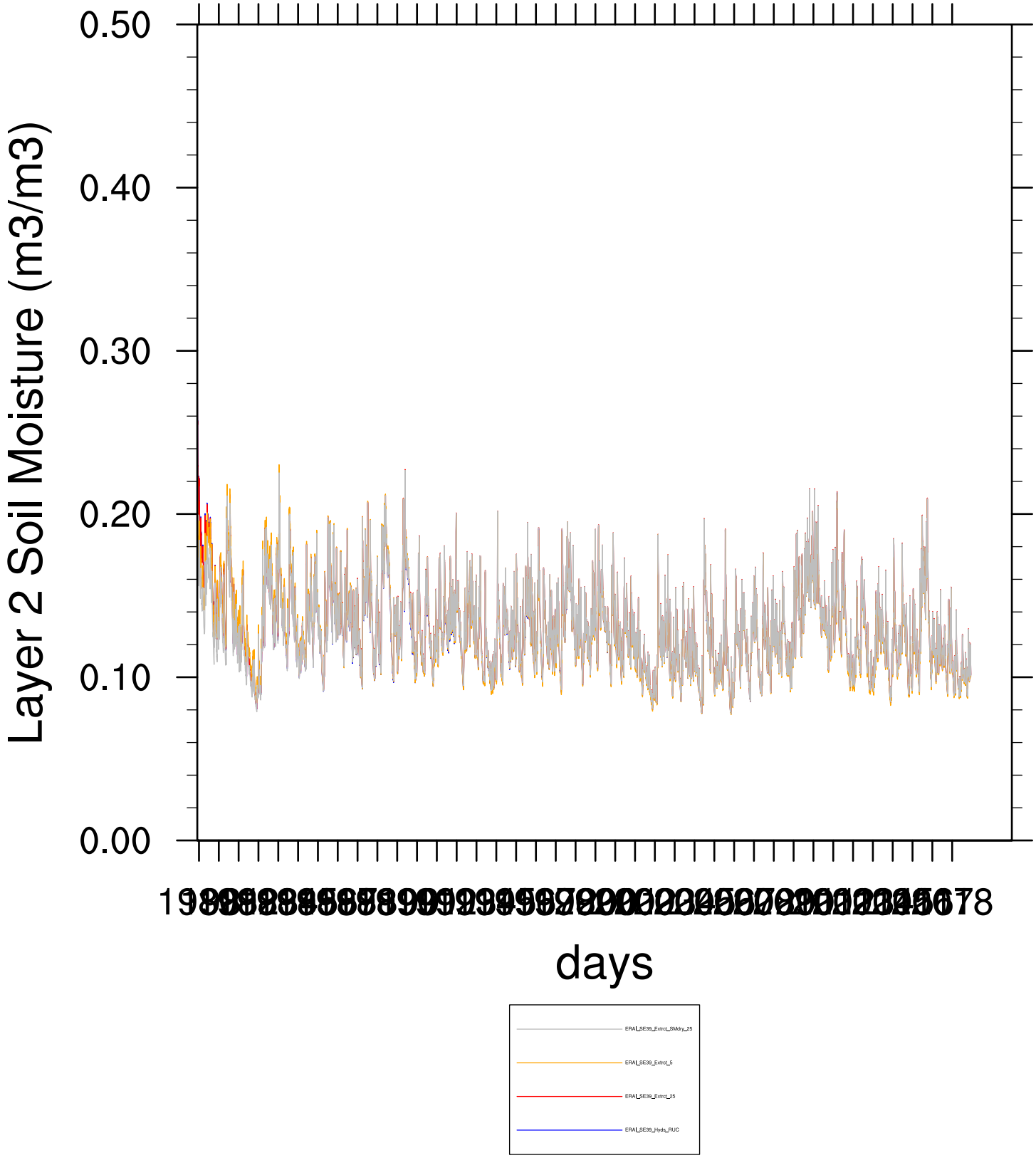

Layer 3 Soil Temp (C)
35
30
25
20
15
10
5
0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

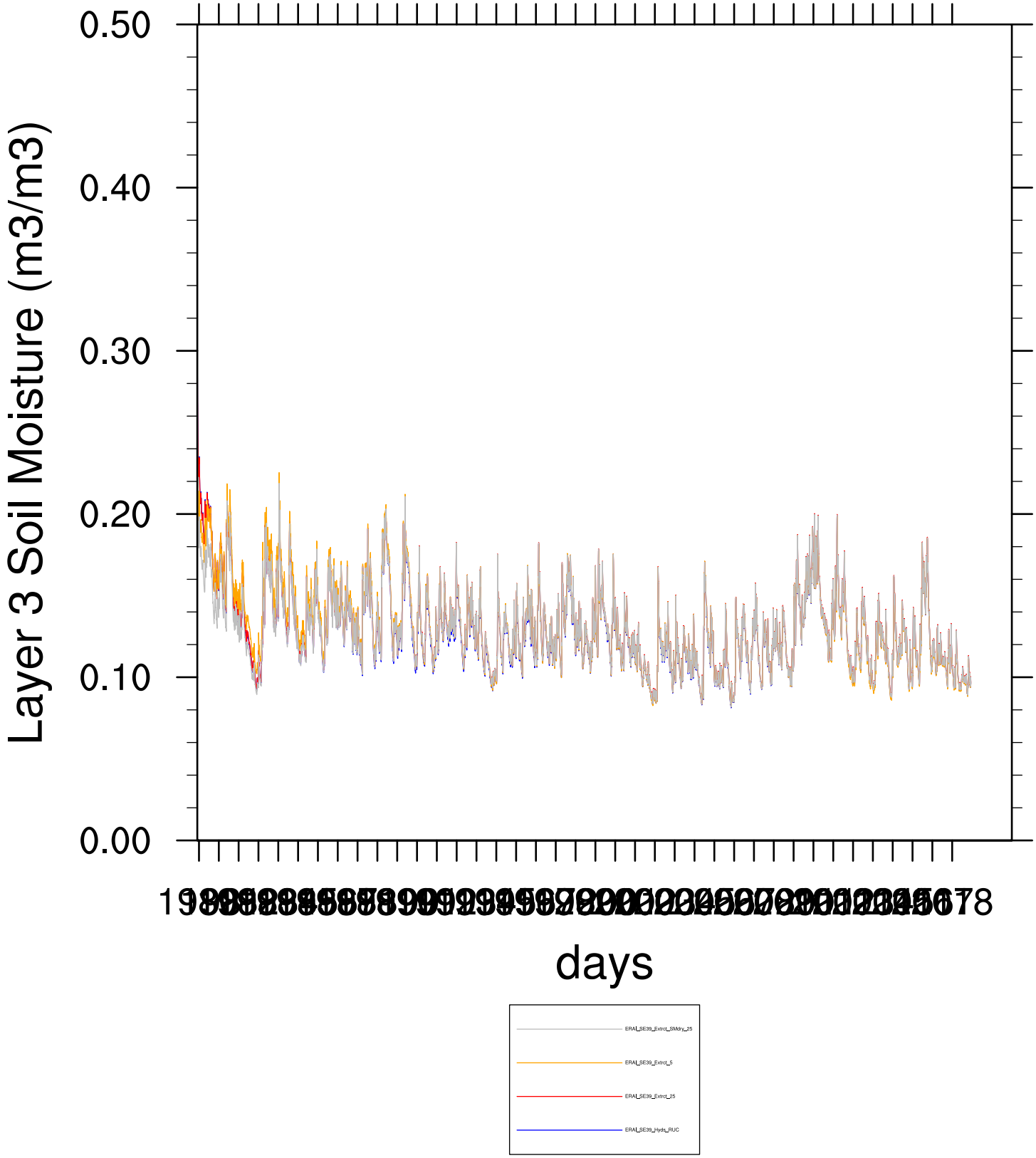

Layer 4 Soil Temp (C)
35
30
25
20
15
10
5
0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

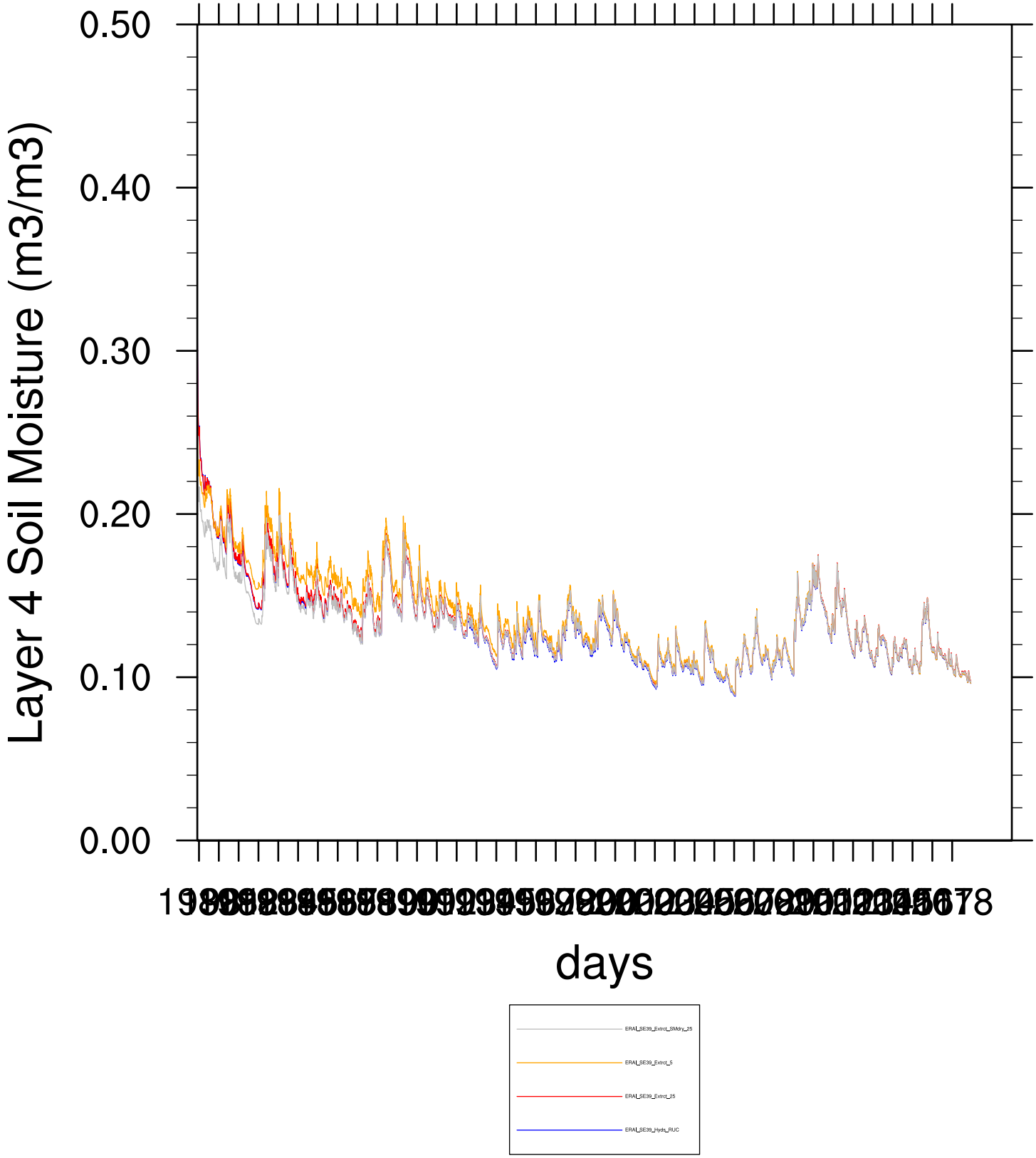

Layer 5 Soil Temp (C)
35
30
25
20
15
10
5
0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

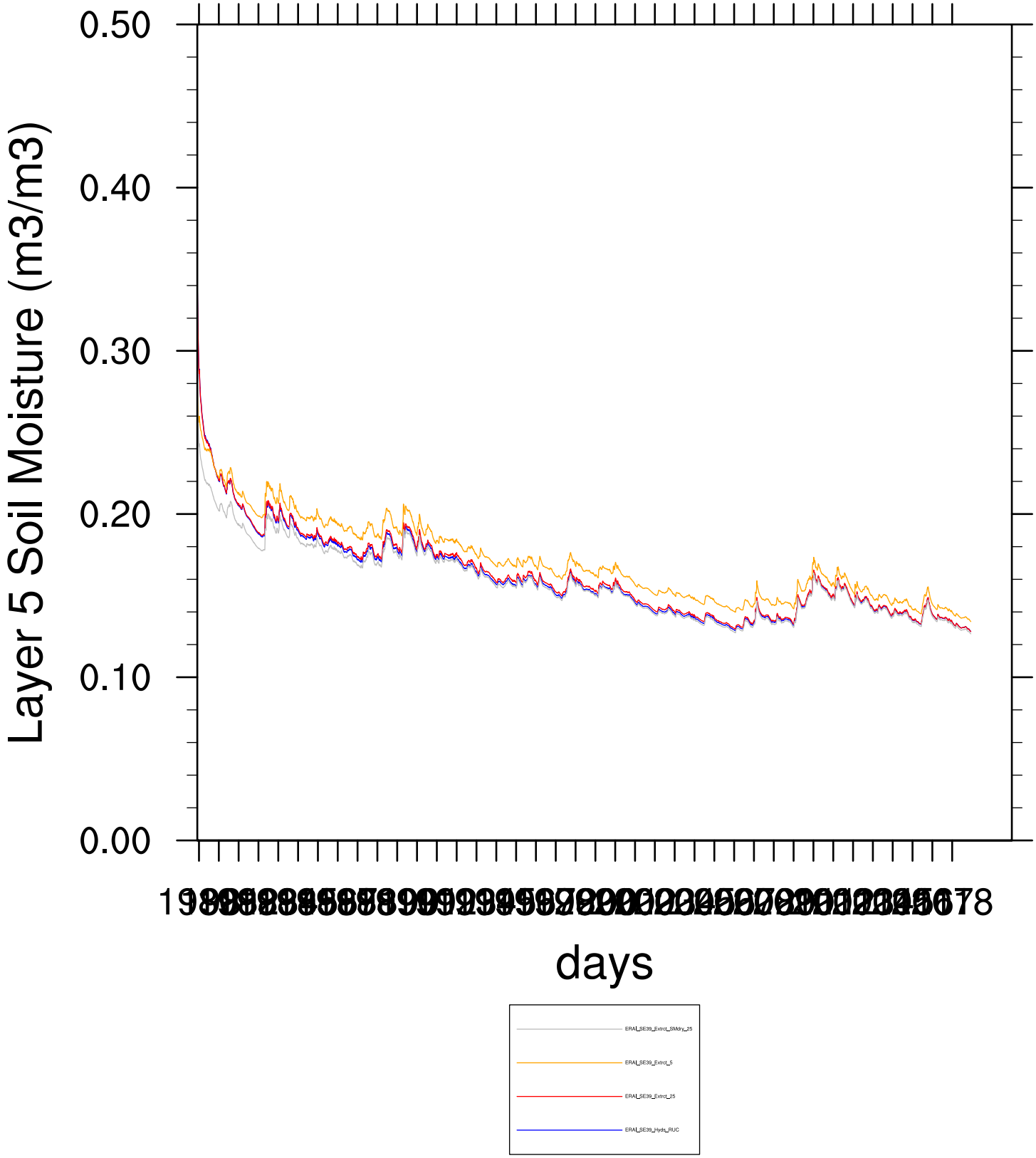

Layer 6 Soil Temp (C)
35
30
25
20
15
10
5
0
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

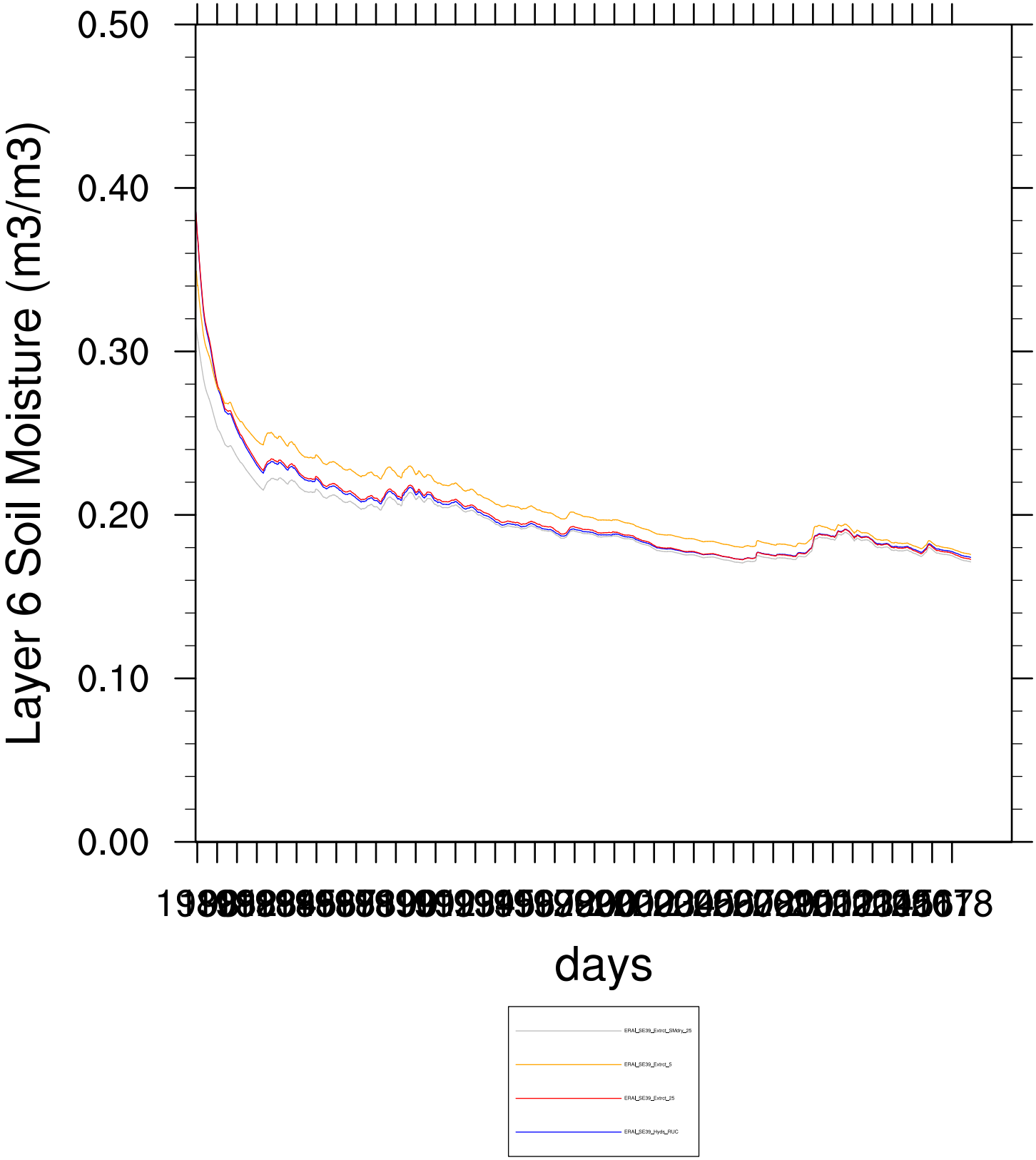

0.50
0.40
0.30
0.20
0.10
0.00
Layer 1 Soil Moisture (m3/m3)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC

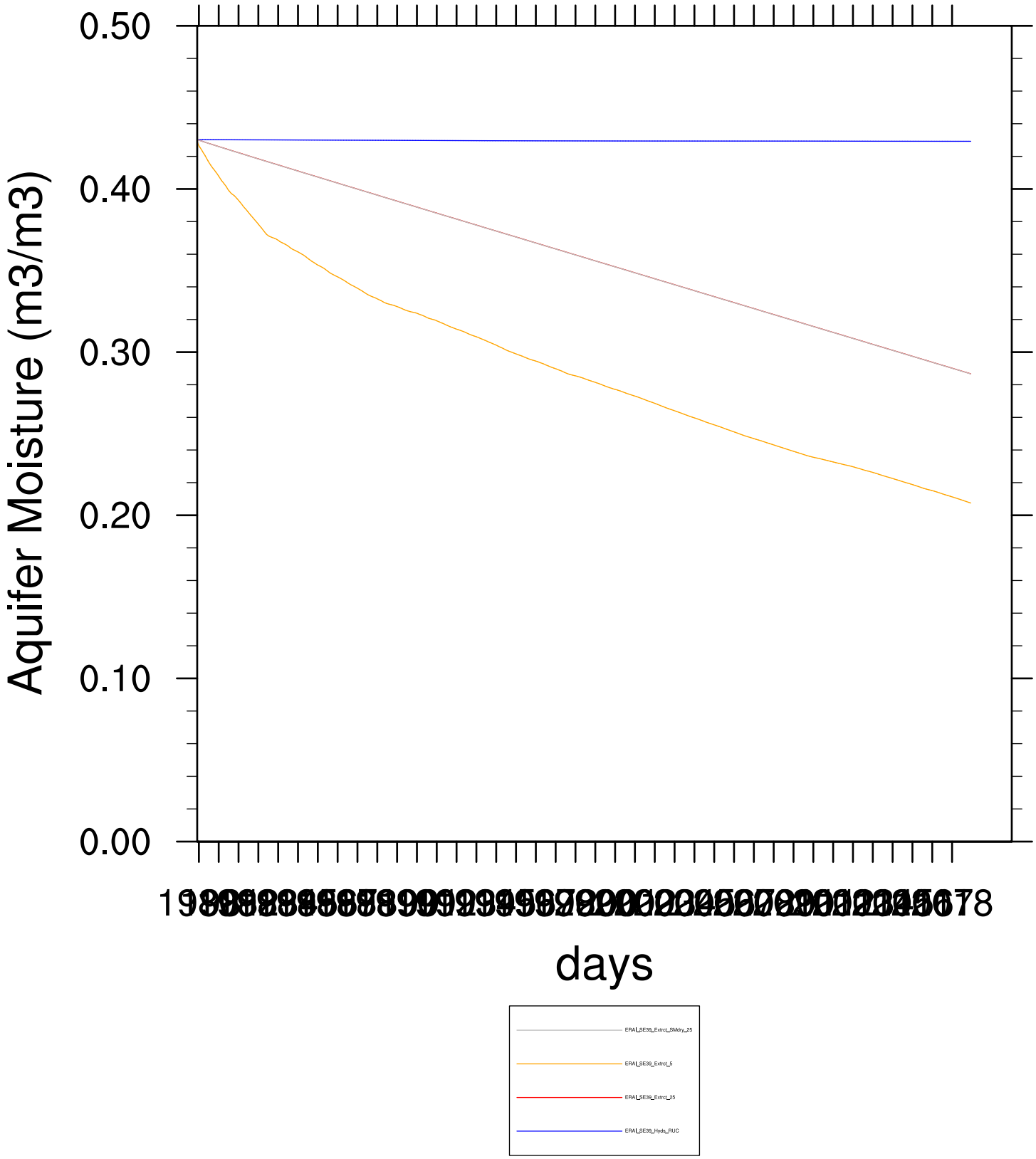

0.50
0.40
0.30
0.20
0.10
0.00
Layer 2 Soil Moisture (m3/m3)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC


0.50
0.40
0.30
0.20
0.10
0.00
Layer 3 Soil Moisture (m3/m3)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC


0.50
0.40
0.30
0.20
0.10
0.00
Layer 4 Soil Moisture (m3/m3)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC


0.50
0.40
0.30
0.20
0.10
0.00
Layer 5 Soil Moisture (m3/m3)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC


0.50
0.40
0.30
0.20
0.10
0.00
Layer 6 Soil Moisture (m3/m3)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC


0.50
0.40
0.30
0.20
0.10
0.00
Aquifer Moisture (m3/m3)
days
ERAI_SE39_Extrct_SMdry_25
ERAI_SE39_Extrct_5
ERAI_SE39_Extrct_25
ERAI_SE39_Hyds_RUC