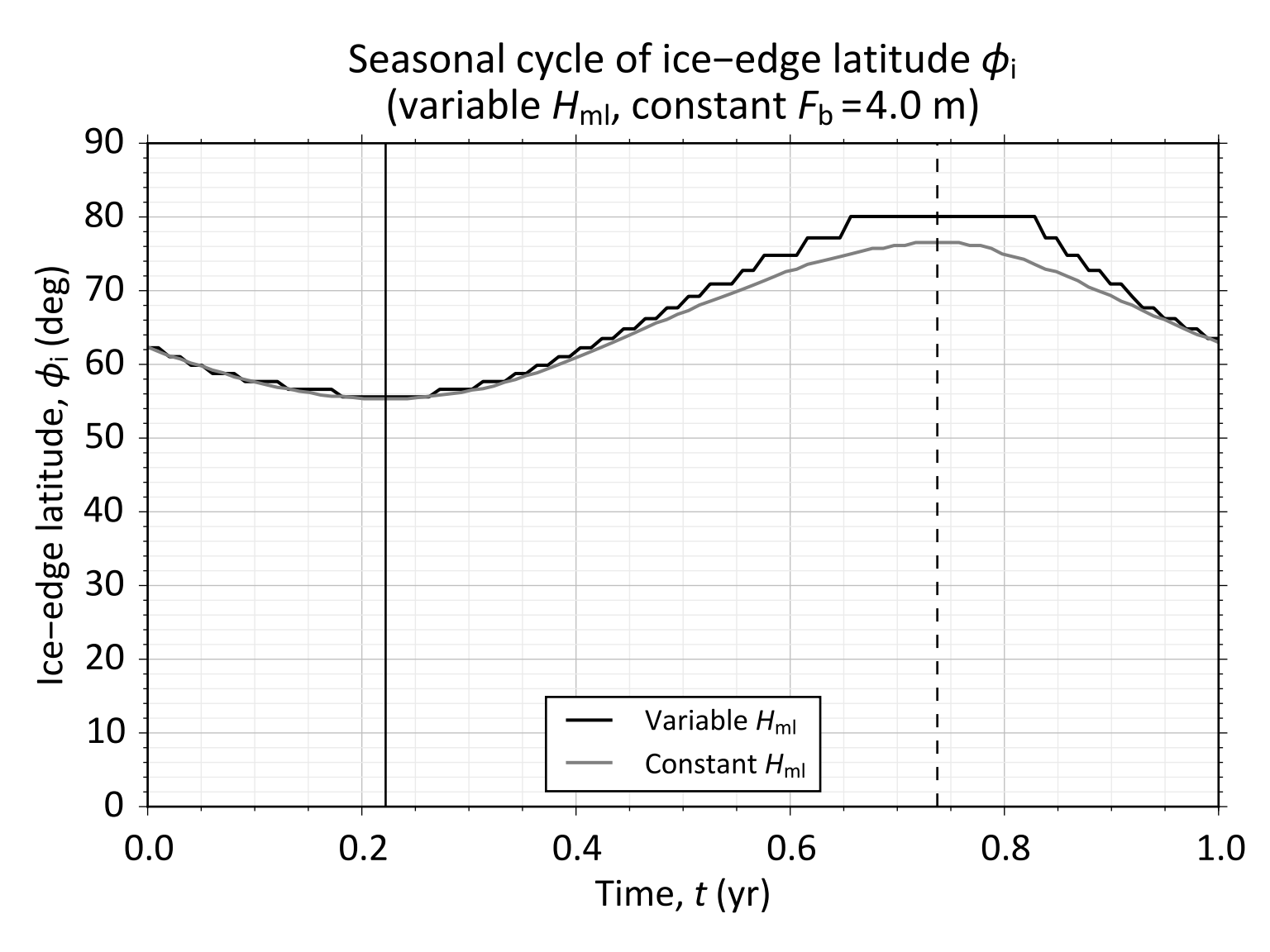
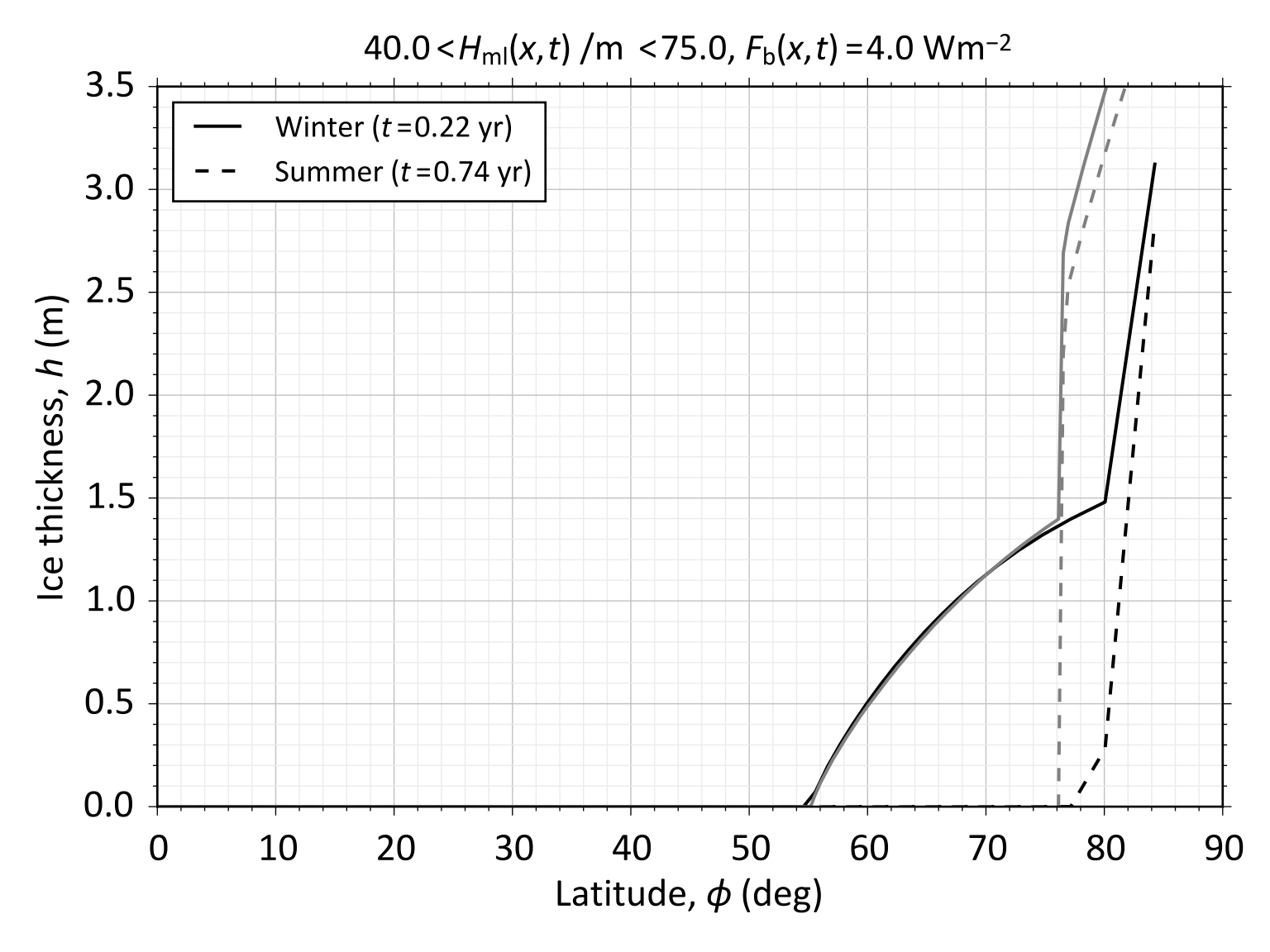
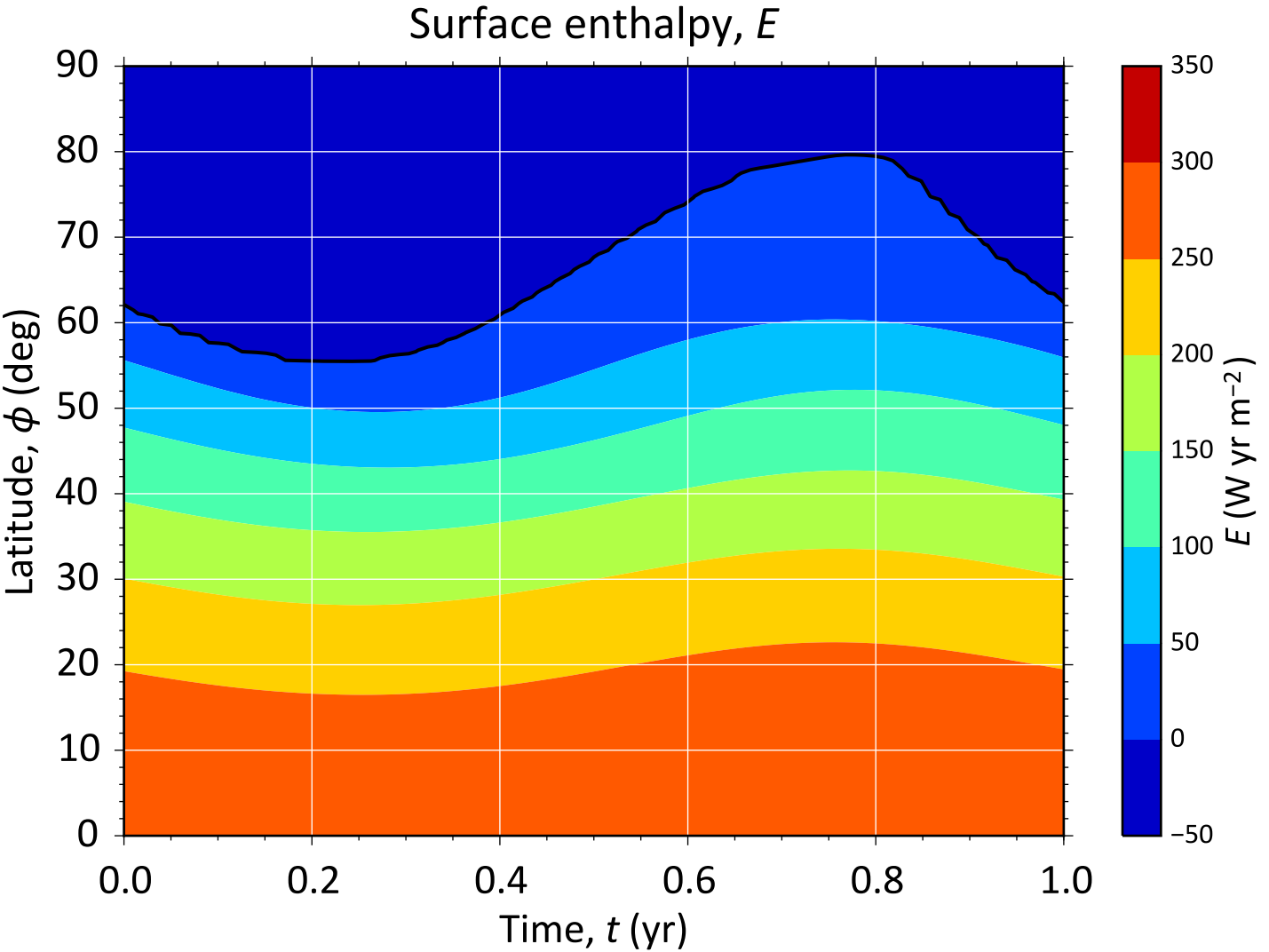
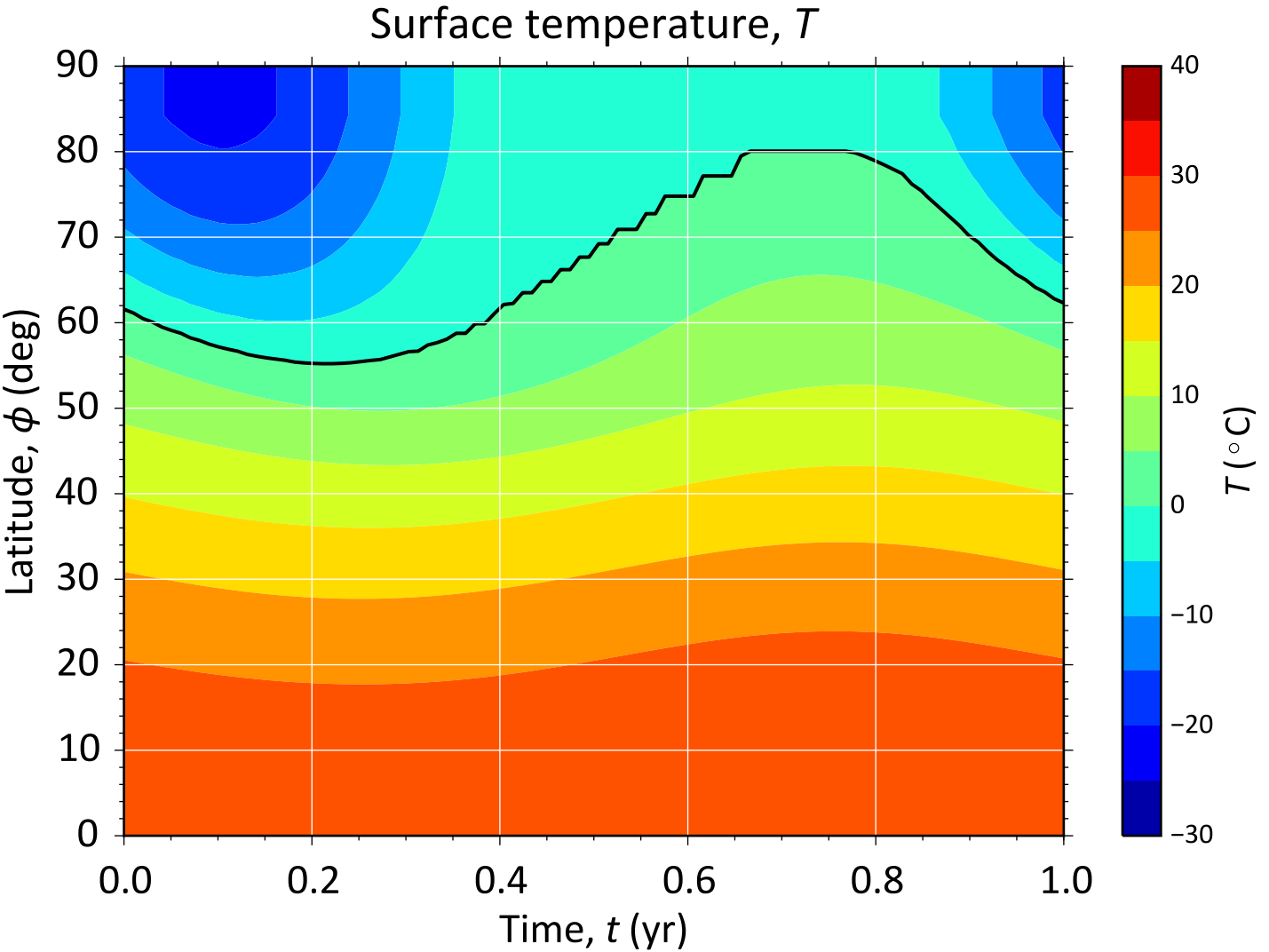
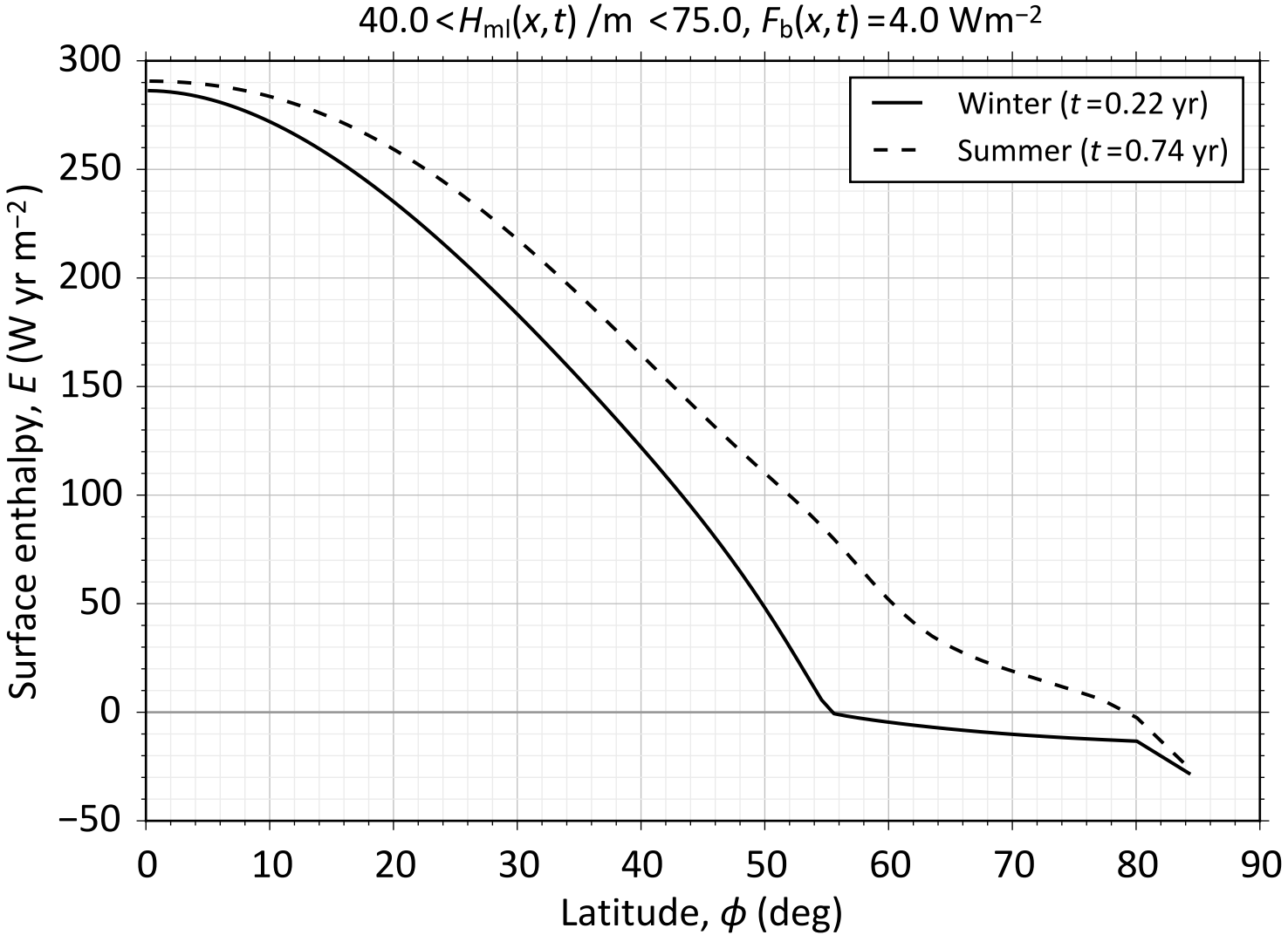
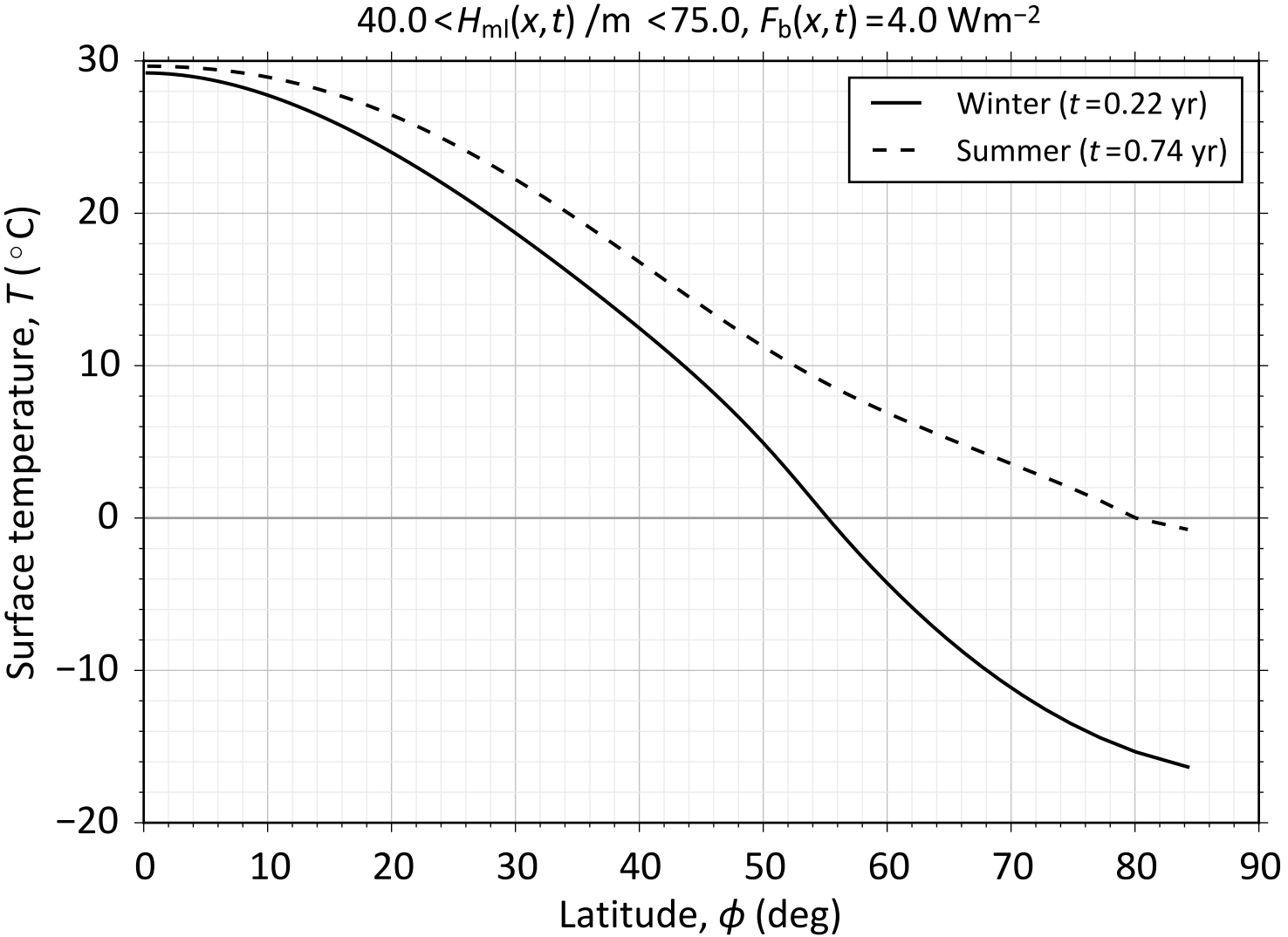

Seasonal cycle of ice−edge latitude ϕ_i
(variable H_{ml}, constant F_b =4.0 m)
Ice−edge latitude, ϕ_i (deg)
90
80
70
60
50
40
30
20
10
0
0.0
0.2
0.4
0.6
0.8
1.0
Time, t (yr)
Variable H_{ml}
Constant H_{ml}

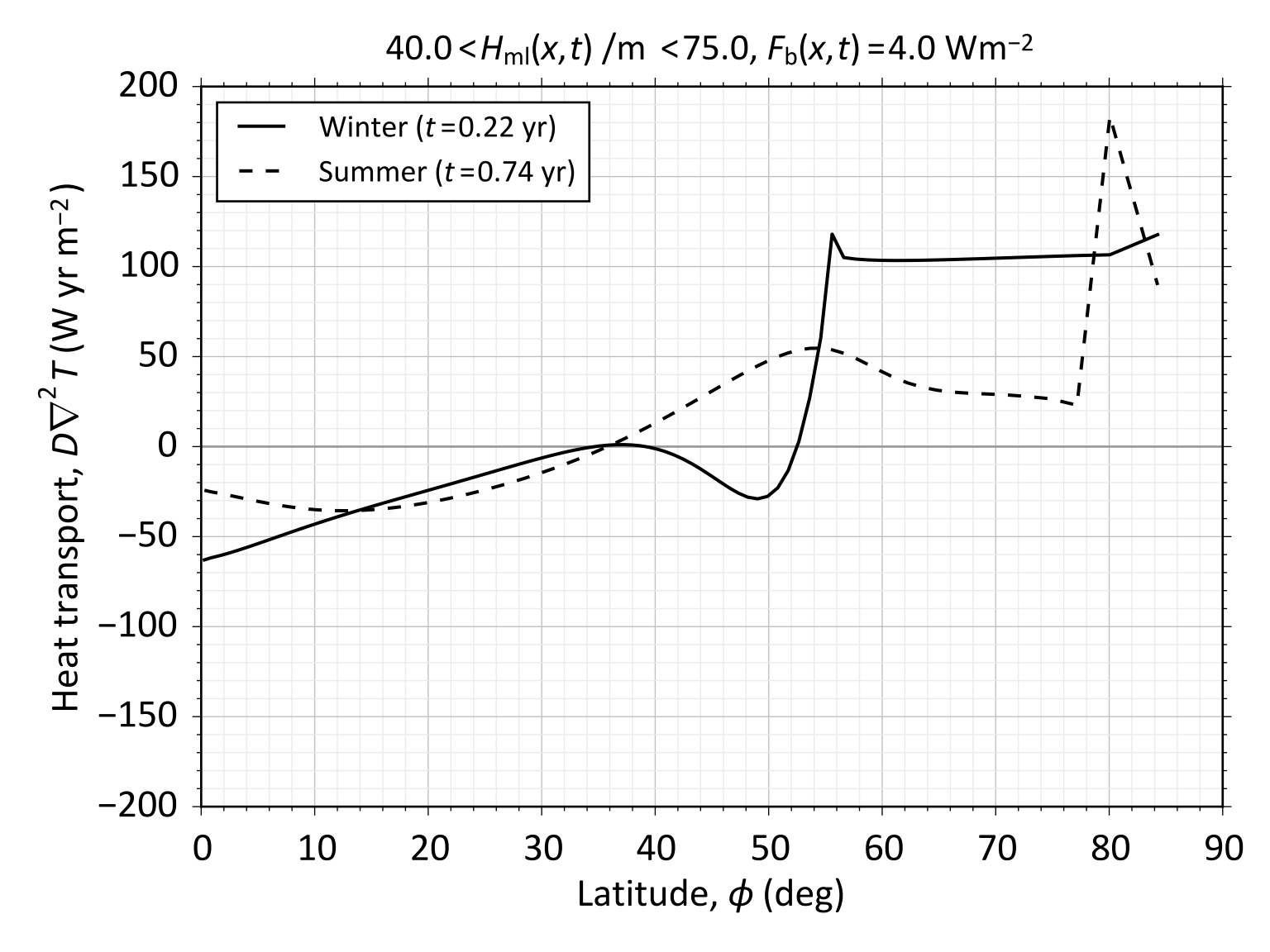

40.0 < $H_{ml}(x,t)$ /m < 75.0, $F_b(x,t)$ = 4.0 Wm^{-2}
Winter (t = 0.22 yr)
Summer (t = 0.74 yr)
Ice thickness, h (m)
Latitude, ϕ (deg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
10
20
30
40
50
60
70
80
90


Surface enthalpy, E
90
80
70
60
50
40
30
20
10
0
Latitude, ϕ (deg)
0.0
0.2
0.4
0.6
0.8
1.0
Time, t (yr)
350
300
250
200
150
100
50
0
−50
E (W yr m−2)


Surface temperature, T
90
80
70
60
50
40
30
20
10
0
Latitude, ϕ (deg)
0.0
0.2
0.4
0.6
0.8
1.0
Time, t (yr)
40
30
20
10
0
−10
−20
−30
T (°C)


40.0 < $H_{ml}(x,t)$ /m < 75.0, $F_b(x,t)$ = 4.0 Wm^{-2}
Winter (t = 0.22 yr)
Summer (t = 0.74 yr)
Surface enthalpy, E (W yr m^{-2})
Latitude, ϕ (deg)
300
250
200
150
100
50
0
−50
0
10
20
30
40
50
60
70
80
90


40.0 < $H_{ml}(x,t)$ /m < 75.0, $F_b(x,t)$ = 4.0 Wm^{-2}
Winter (t = 0.22 yr)
Summer (t = 0.74 yr)
Surface temperature, T (°C)
Latitude, ϕ (deg)
30
20
10
0
−10
−20
0
10
20
30
40
50
60
70
80
90


40.0 < $H_{ml}(x,t)$ /m < 75.0, $F_b(x,t)$ = 4.0 Wm^{-2}
Winter (t = 0.22 yr)
Summer (t = 0.74 yr)
Heat transport, $D\nabla^2 T$ (W yr m^{-2})
Latitude, ϕ (deg)
200
150
100
50
0
−50
−100
−150
−200
0
10
20
30
40
50
60
70
80
90