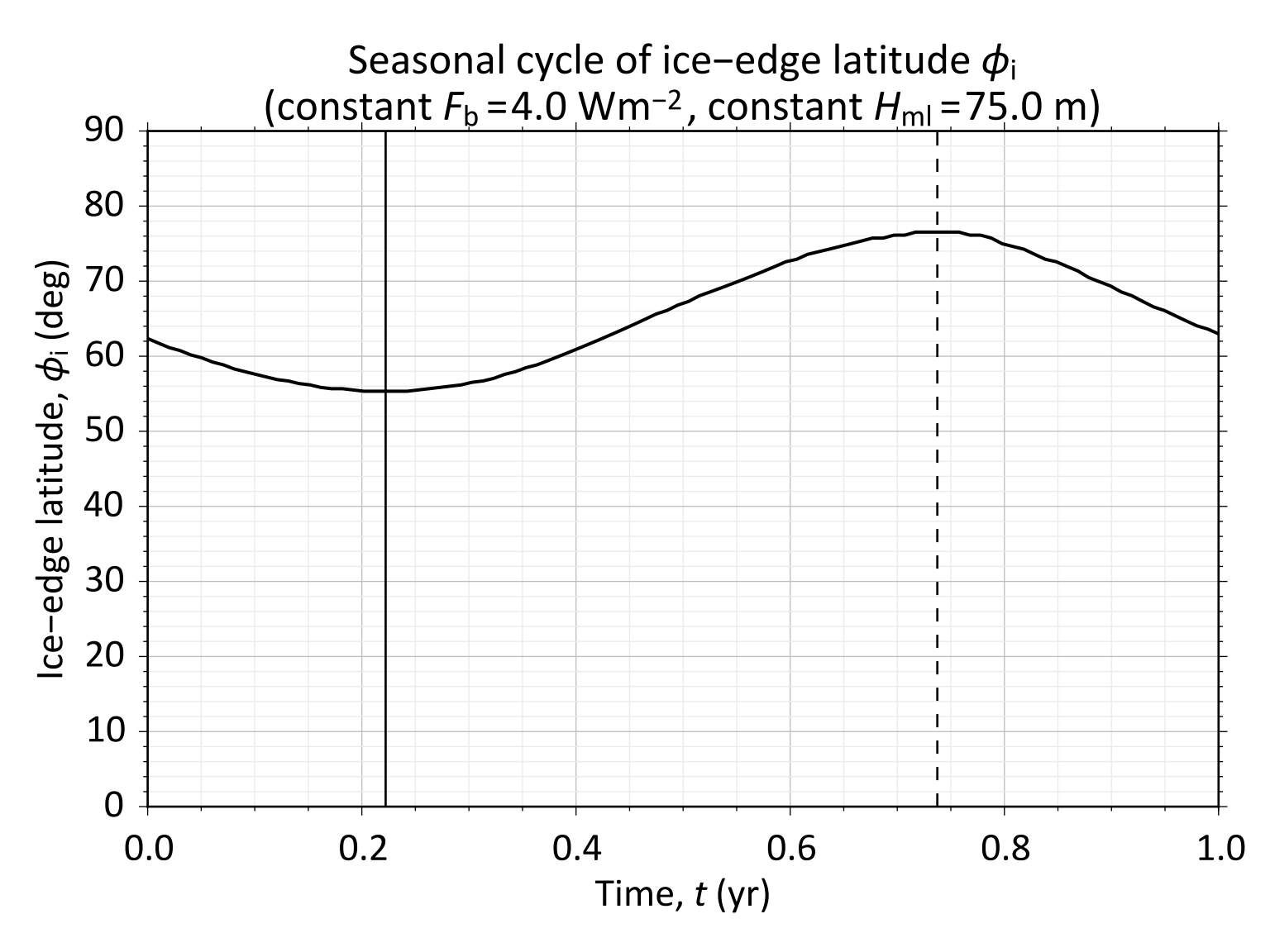
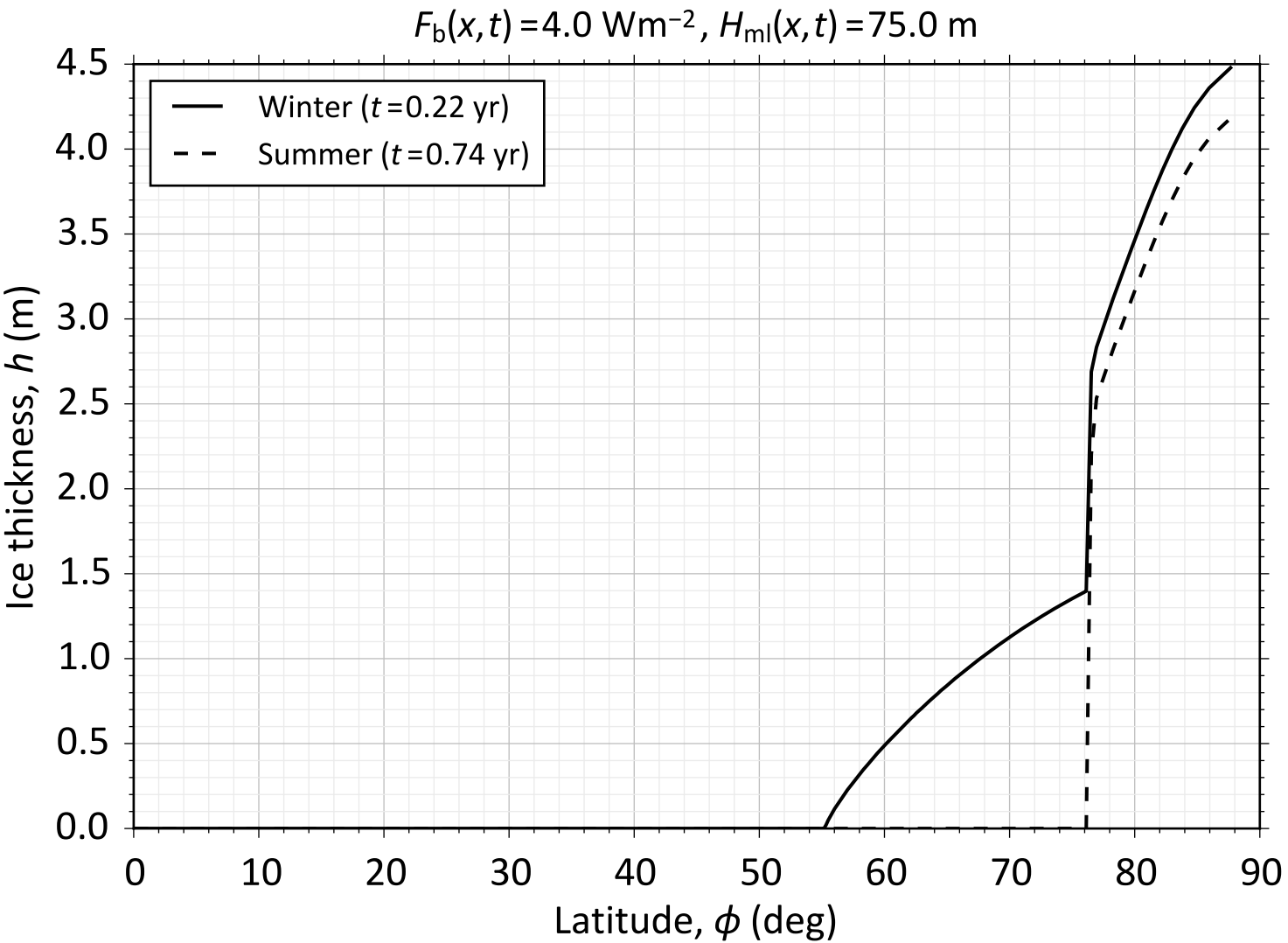
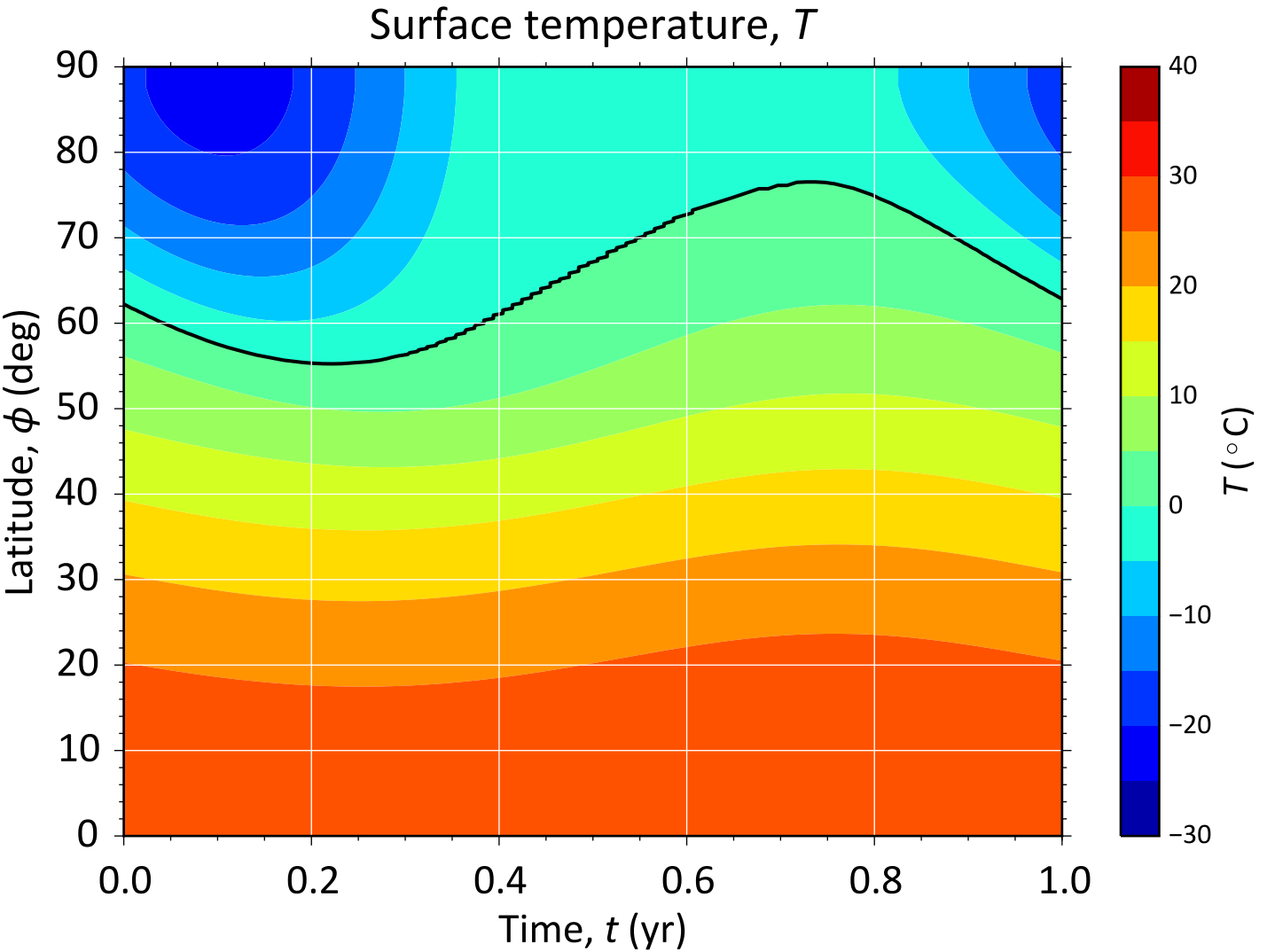
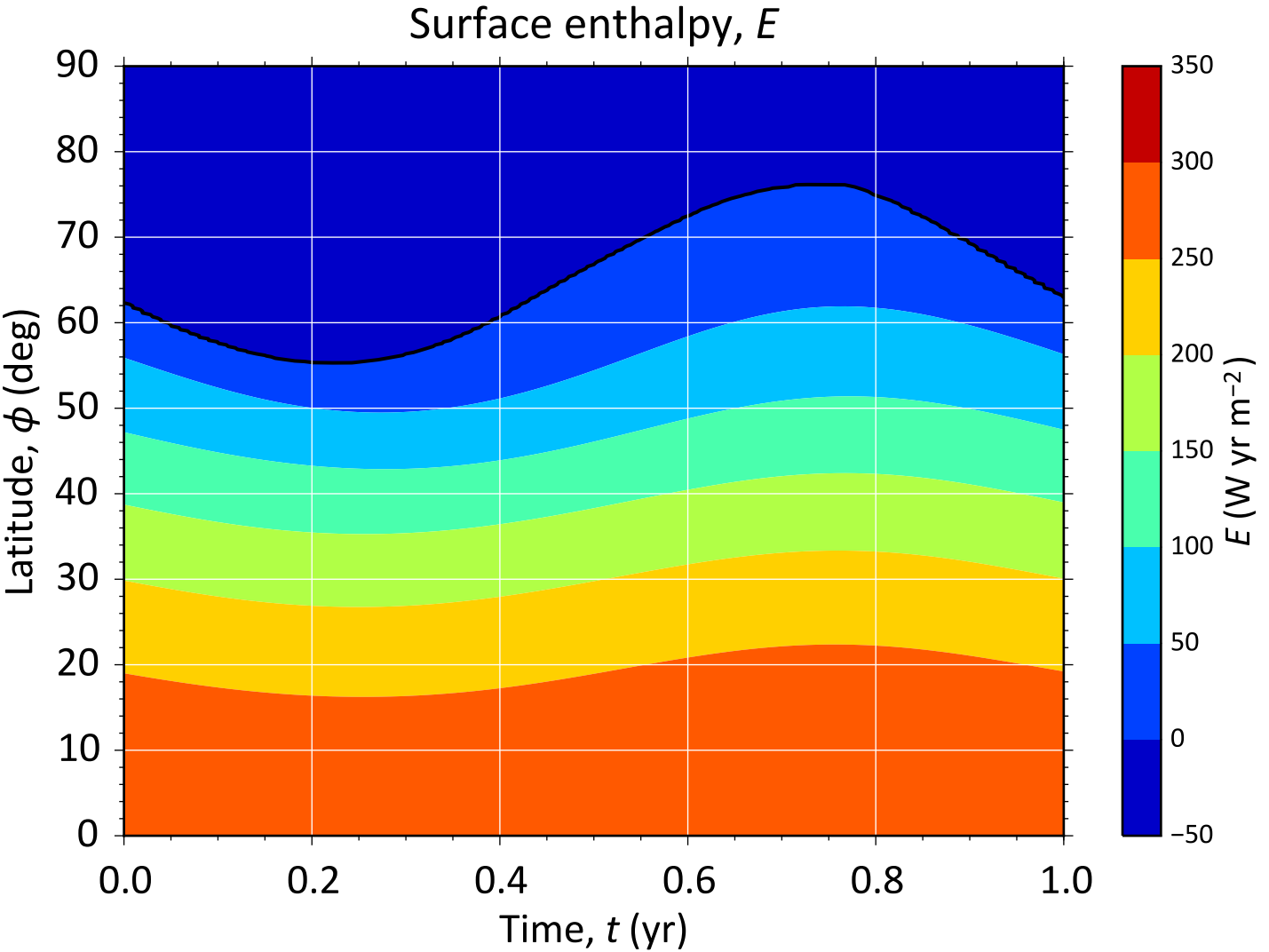
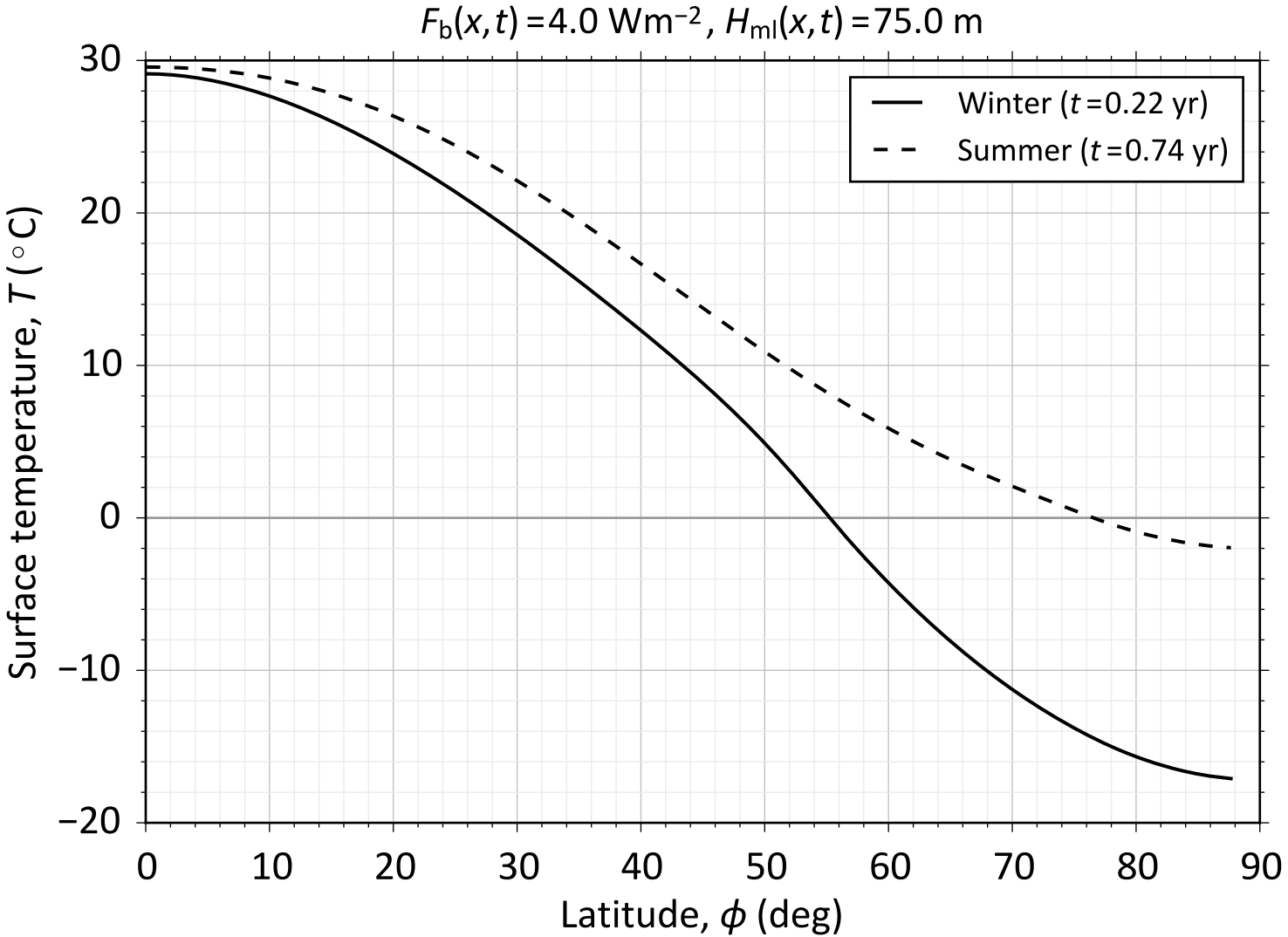
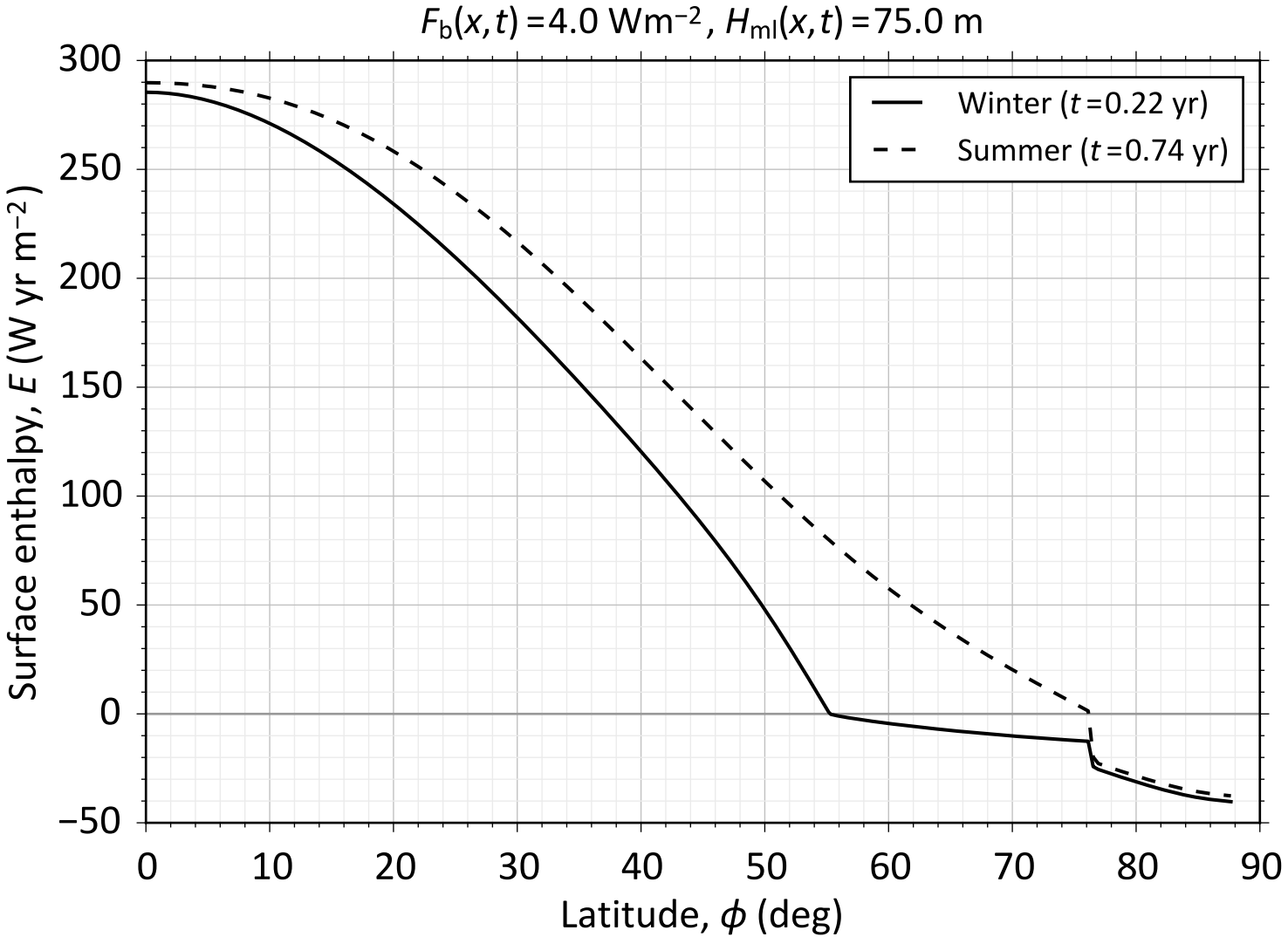

Seasonal cycle of ice−edge latitude ϕ_i
(constant F_b = 4.0 Wm^{-2}, constant H_{ml} = 75.0 m)
Ice−edge latitude, ϕ_i (deg)
90
80
70
60
50
40
30
20
10
0
0.0
0.2
0.4
0.6
0.8
1.0
Time, t (yr)

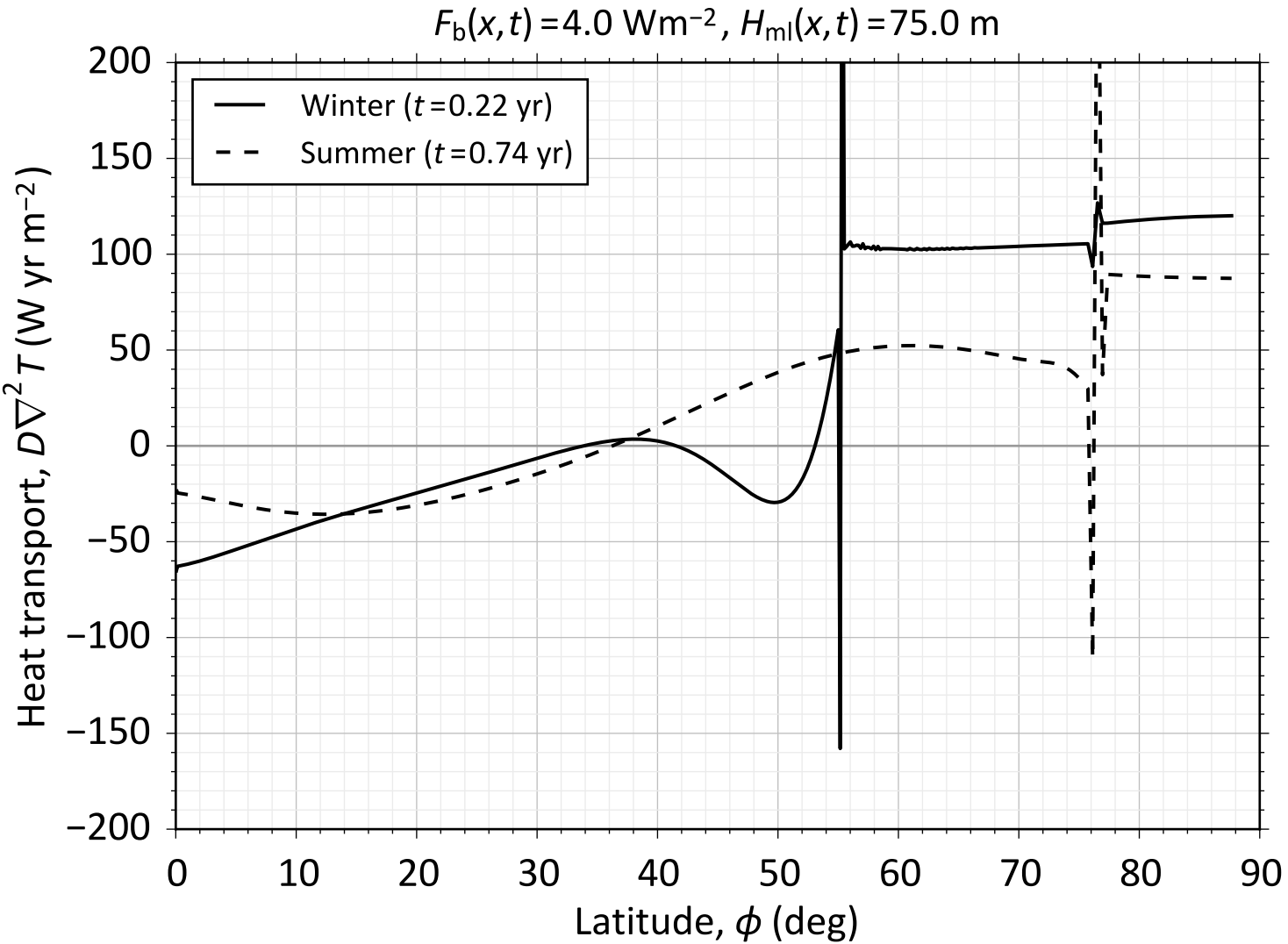

$F_b(x,t) = 4.0$ Wm^{-2}, $H_{ml}(x,t) = 75.0$ m
Winter ($t = 0.22$ yr)
Summer ($t = 0.74$ yr)
Ice thickness, h (m)
Latitude, ϕ (deg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
0
10
20
30
40
50
60
70
80
90


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)


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)


$F_b(x,t) = 4.0\ \mathrm{Wm}^{-2}$, $H_{ml}(x,t) = 75.0$ m
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


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


$F_b(x,t) = 4.0\ \mathrm{Wm^{-2}}$, $H_{ml}(x,t) = 75.0$ m
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