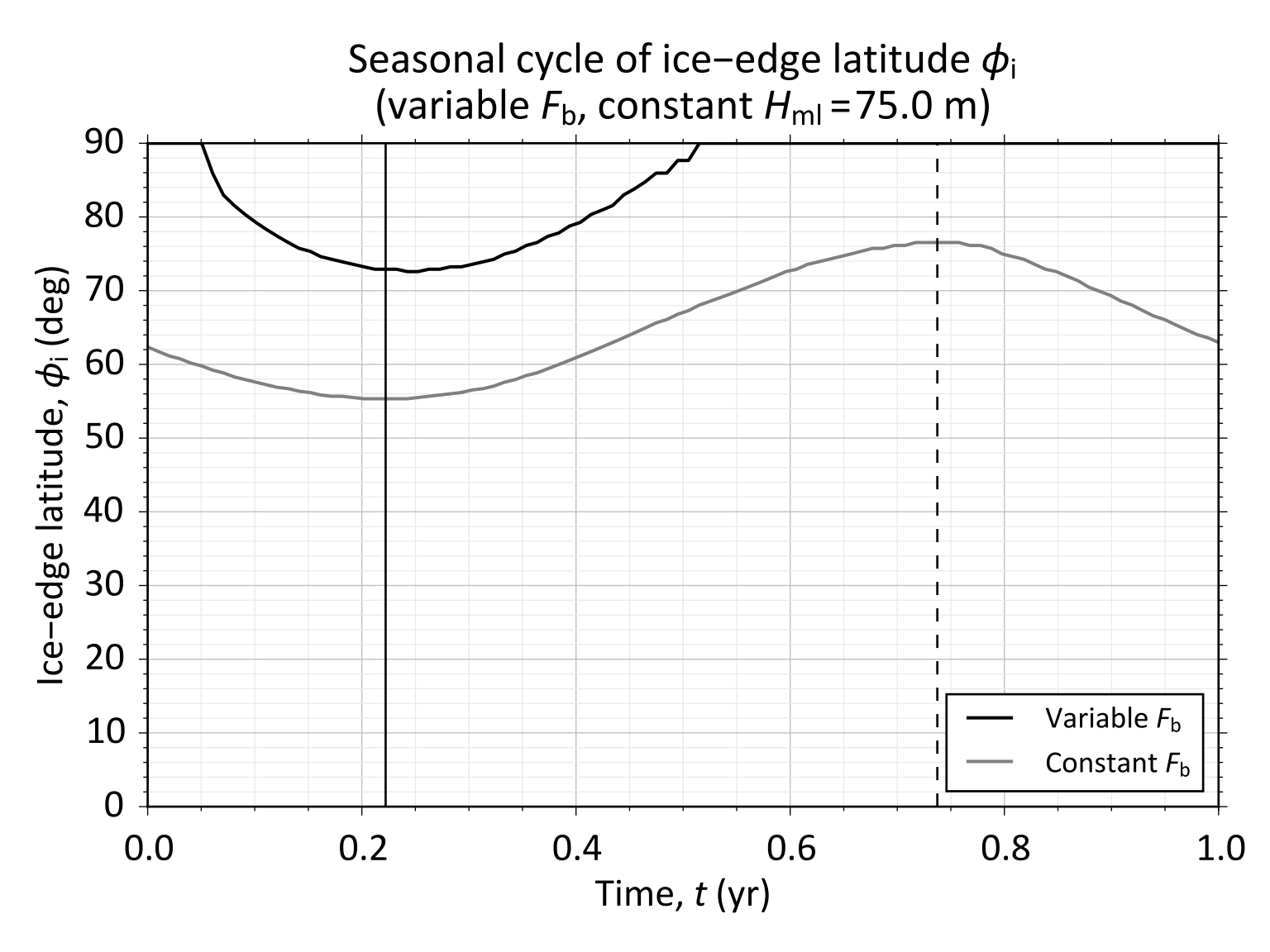
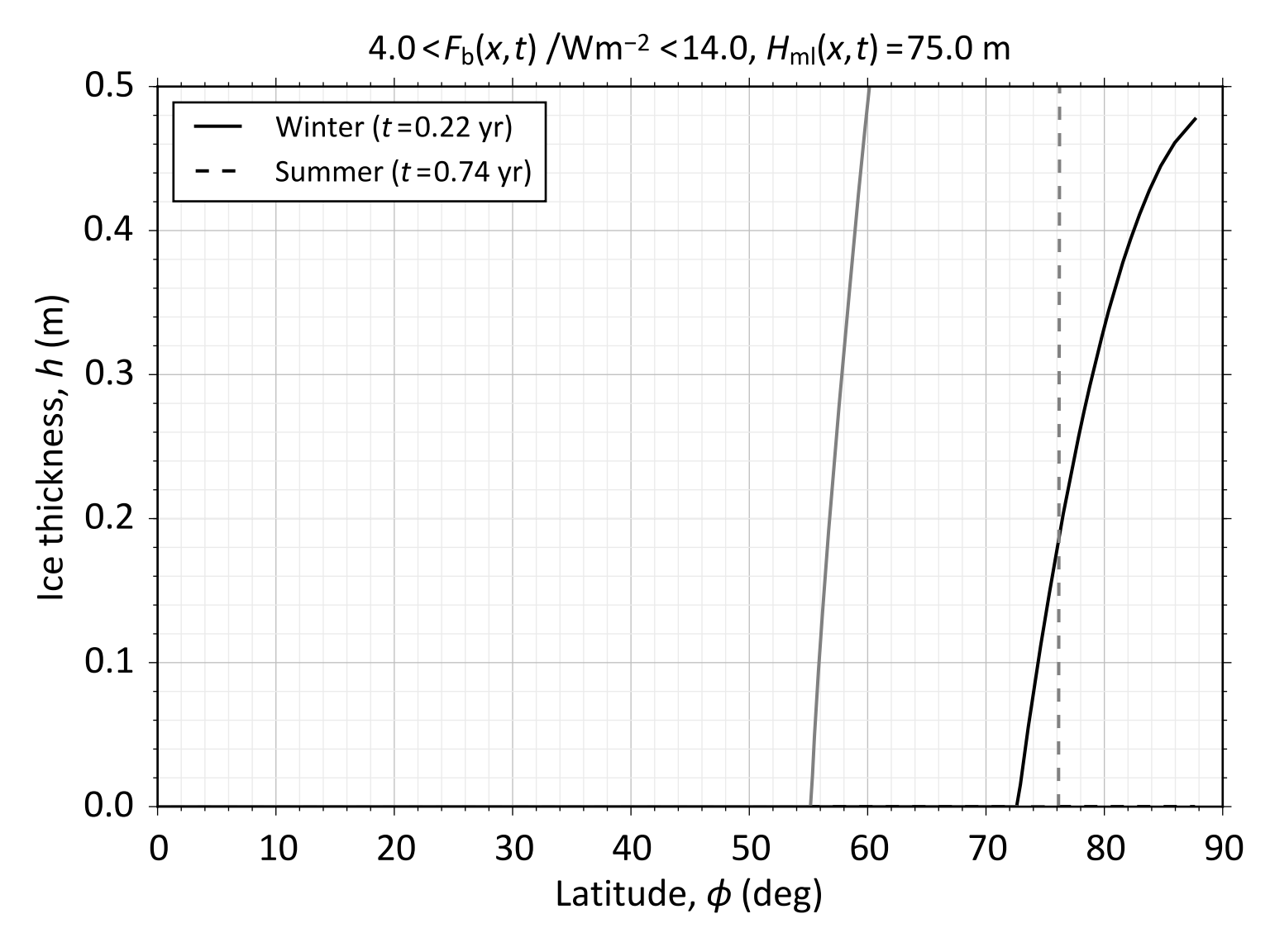
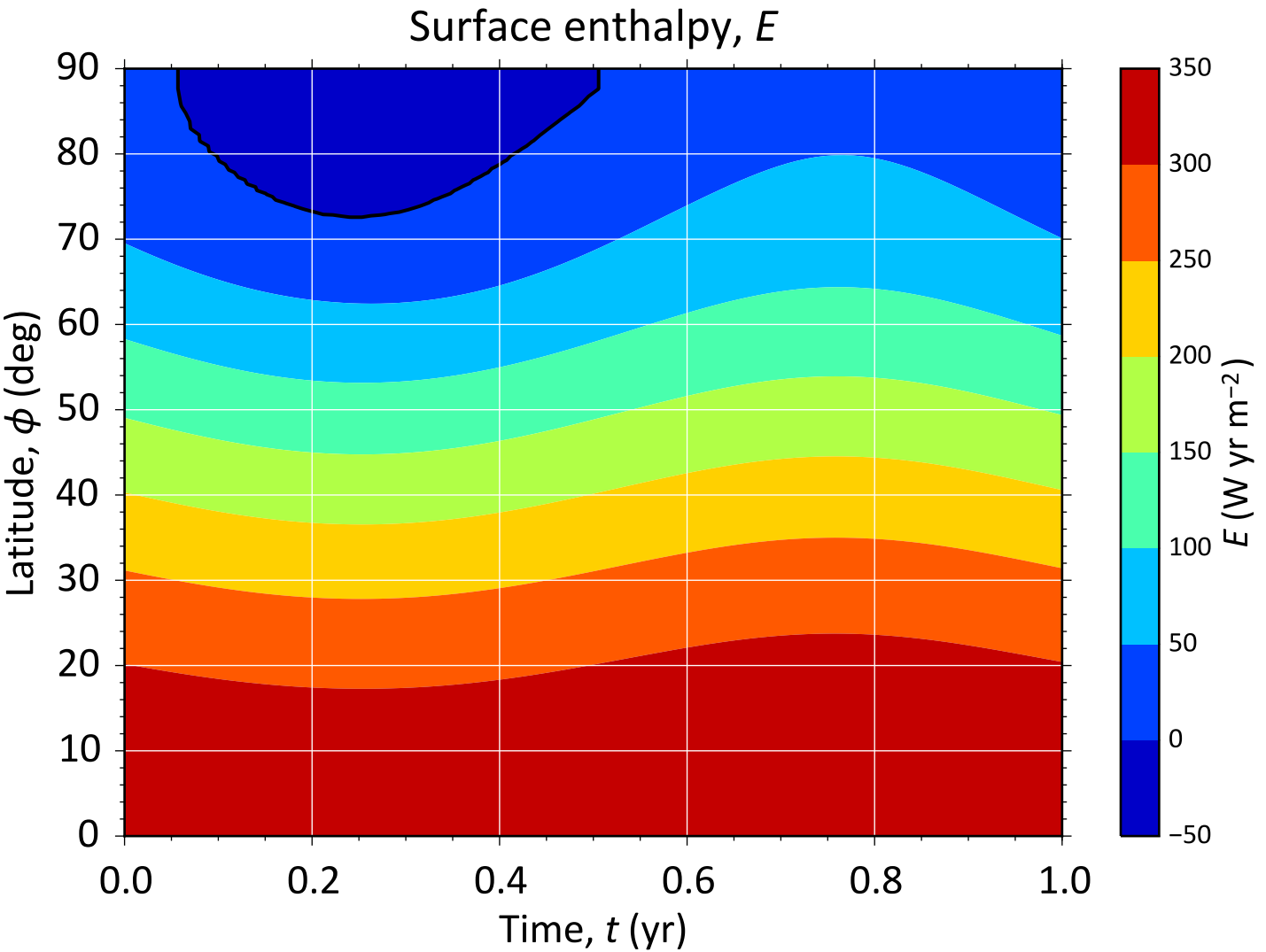
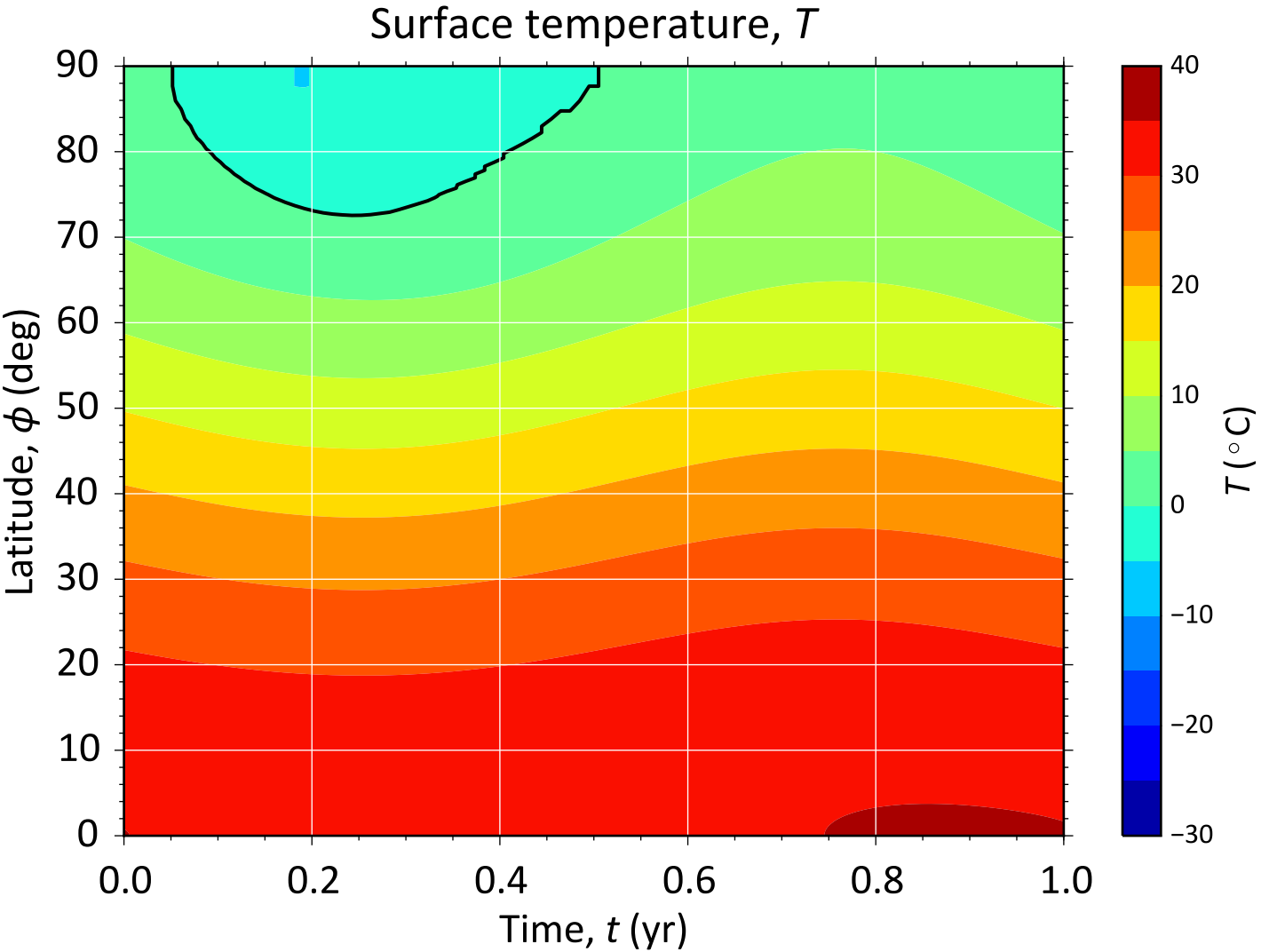
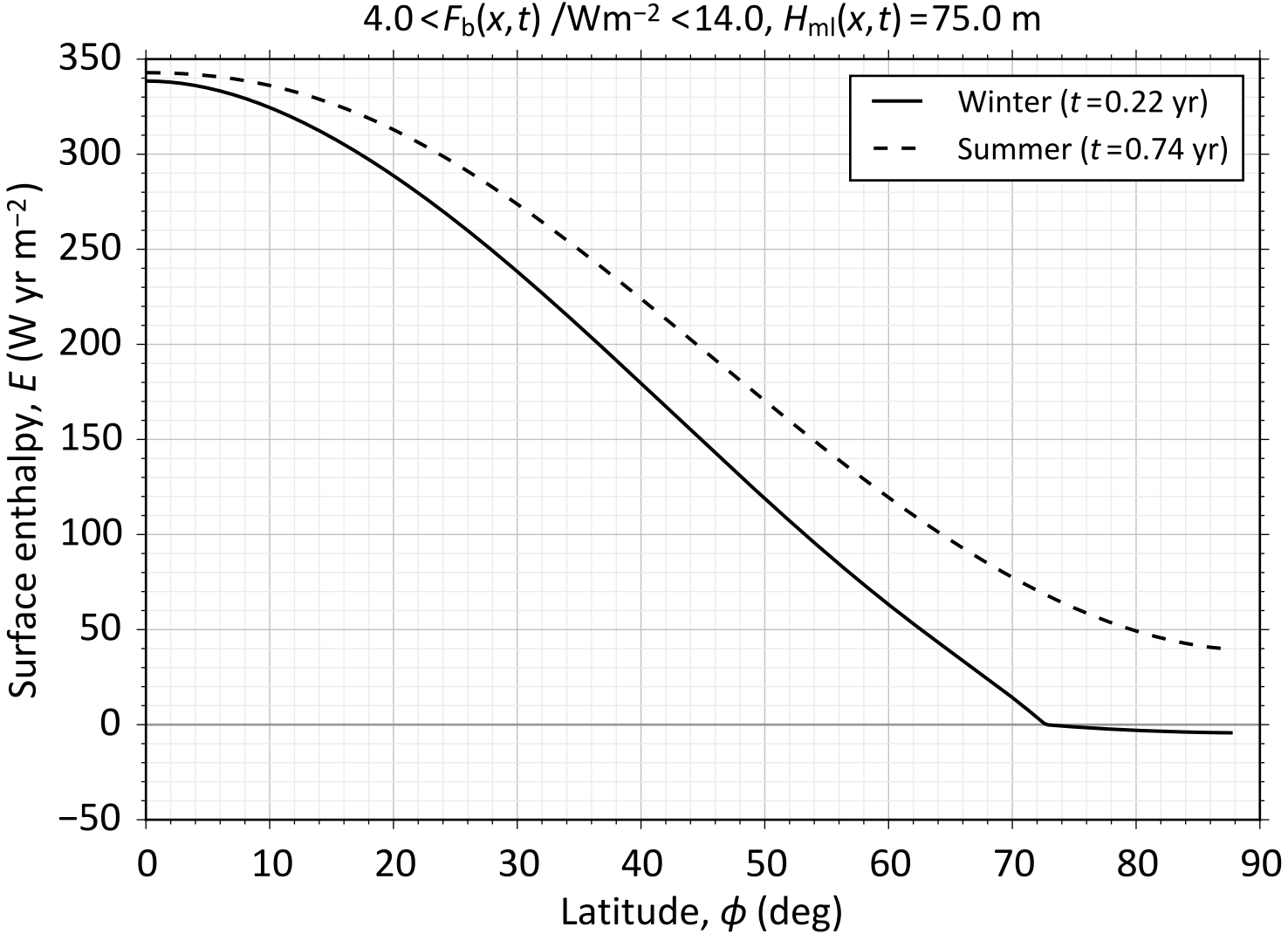
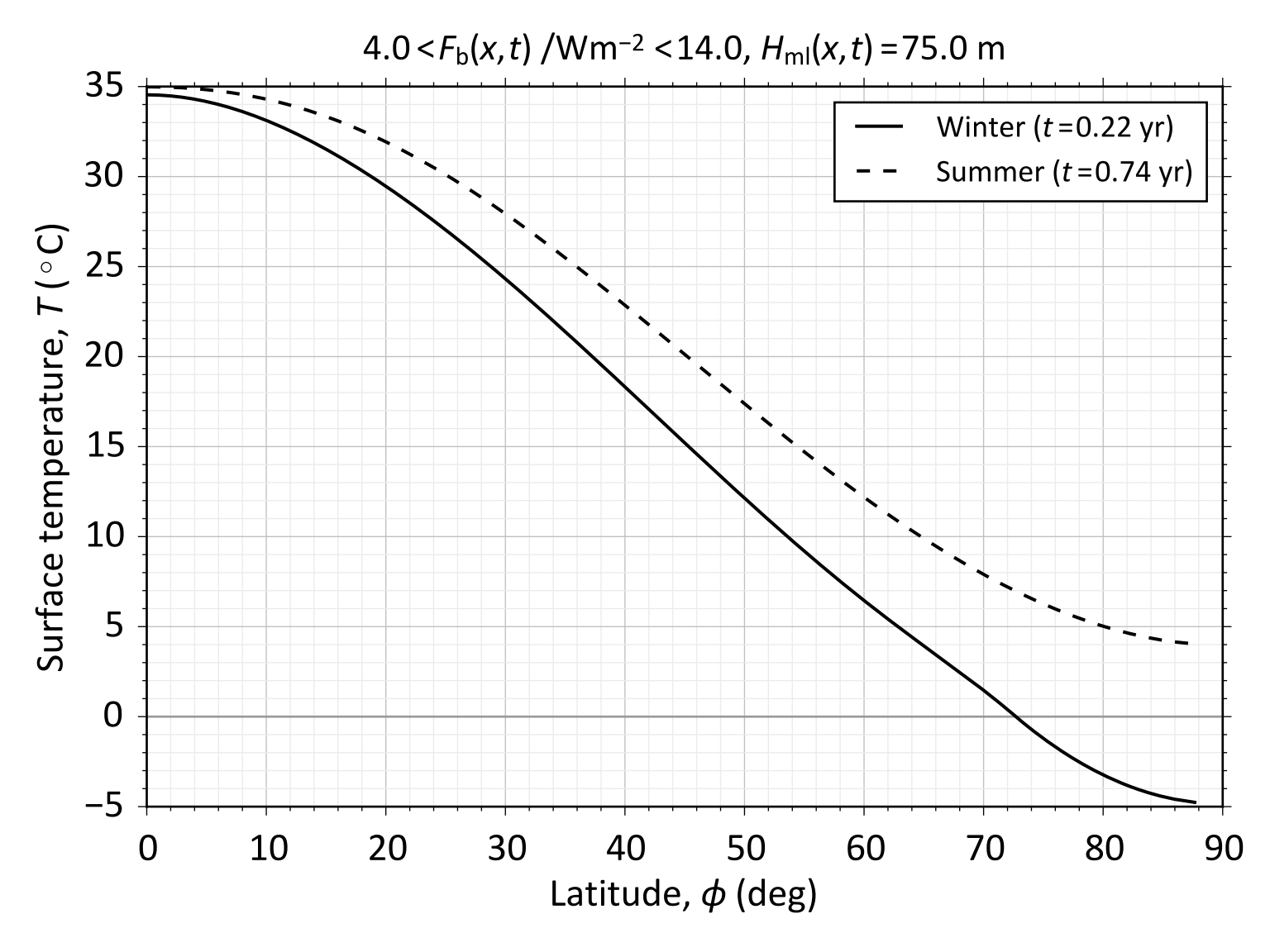

Seasonal cycle of ice−edge latitude ϕ_i
(variable F_b, constant H_{ml} = 75.0 m)
Ice−edge latitude, ϕ_i (deg)
90
80
70
60
50
40
30
20
10
0
0.0
0.2
0.4
0.6
0.8
1.0
Time, t (yr)
Variable F_b
Constant F_b

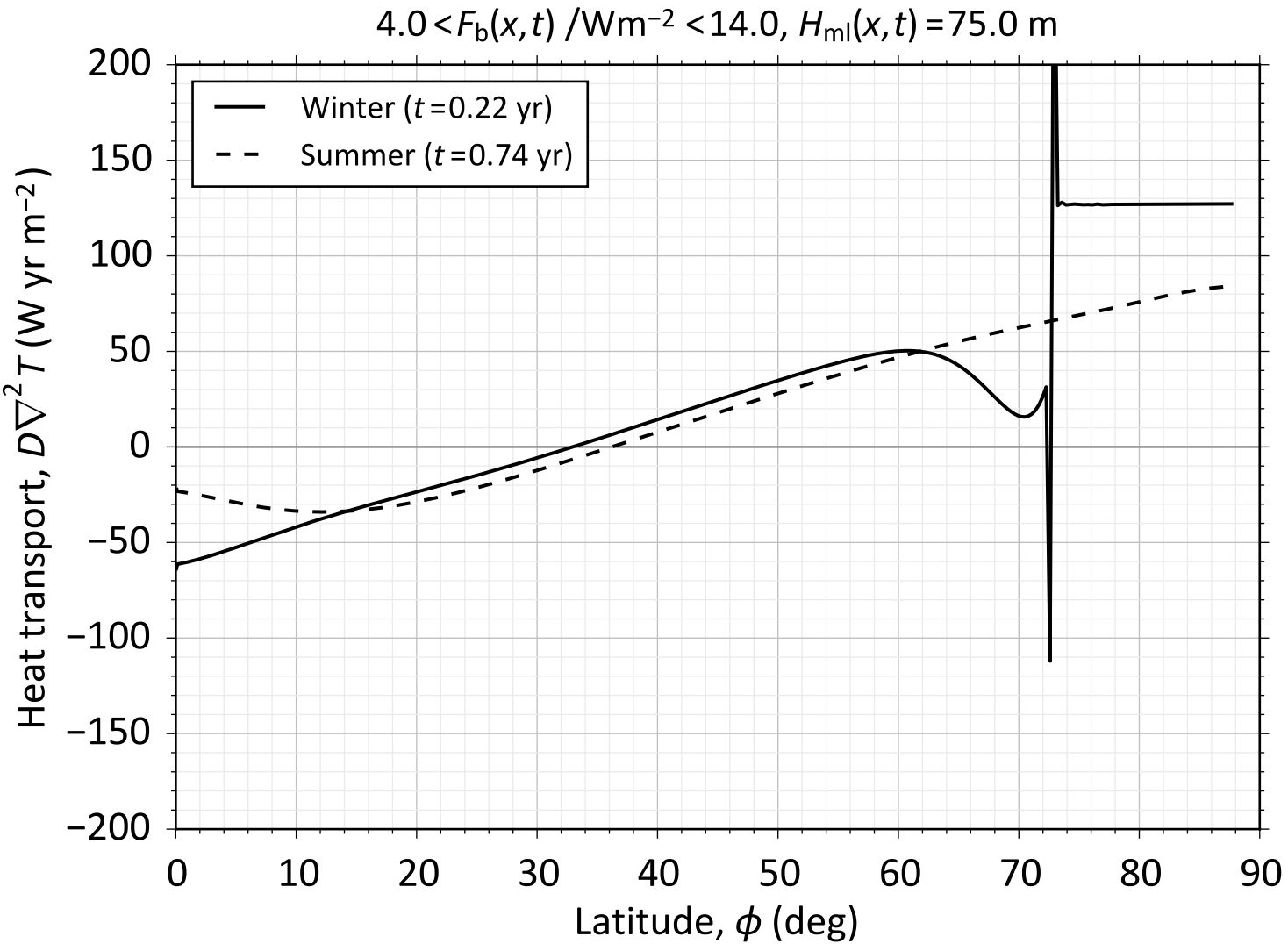

4.0 < $F_b(x,t)$ /Wm^{-2} < 14.0, $H_{ml}(x,t)$ = 75.0 m
Winter (t = 0.22 yr)
Summer (t = 0.74 yr)
Ice thickness, h (m)
0.0
0.1
0.2
0.3
0.4
0.5
0
10
20
30
40
50
60
70
80
90
Latitude, ϕ (deg)


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
Latitude, ϕ (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)
40
30
20
10
0
−10
−20
−30
T (°C)


4.0 < $F_b(x,t)$ /Wm^{-2} < 14.0, $H_{ml}(x,t)$ = 75.0 m
Winter (t = 0.22 yr)
Summer (t = 0.74 yr)
Surface enthalpy, E (W yr m^{-2})
Latitude, ϕ (deg)
350
300
250
200
150
100
50
0
−50
0
10
20
30
40
50
60
70
80
90


4.0 < $F_b(x,t)$ /Wm^{-2} < 14.0, $H_{ml}(x,t)$ = 75.0 m
Winter (t = 0.22 yr)
Summer (t = 0.74 yr)
Surface temperature, T (°C)
35
30
25
20
15
10
5
0
−5
0
10
20
30
40
50
60
70
80
90
Latitude, ϕ (deg)


4.0 < $F_b(x,t)$ /Wm^{-2} < 14.0, $H_{ml}(x,t)$ = 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