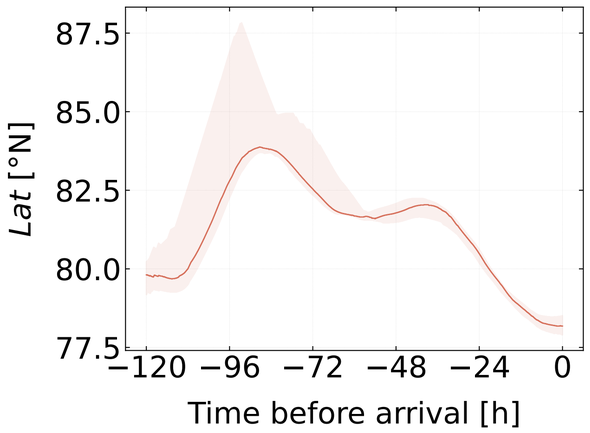
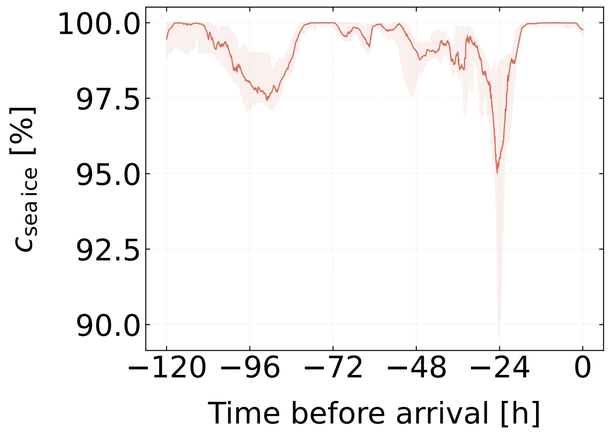
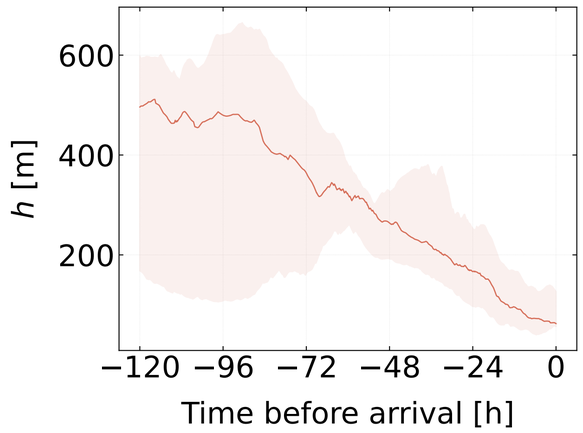
(a)


87.5
85.0
82.5
80.0
77.5
Lat [°N]
−120 −96 −72 −48 −24 0
Time before arrival [h]

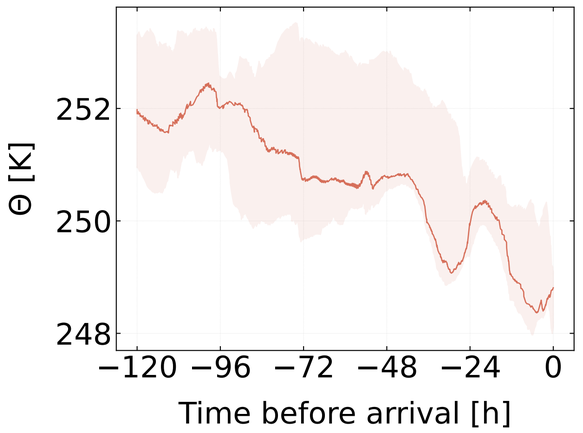
(b)


100.0
97.5
95.0
92.5
90.0
$c_{\text{sea ice}}$ [%]
−120 −96 −72 −48 −24 0
Time before arrival [h]

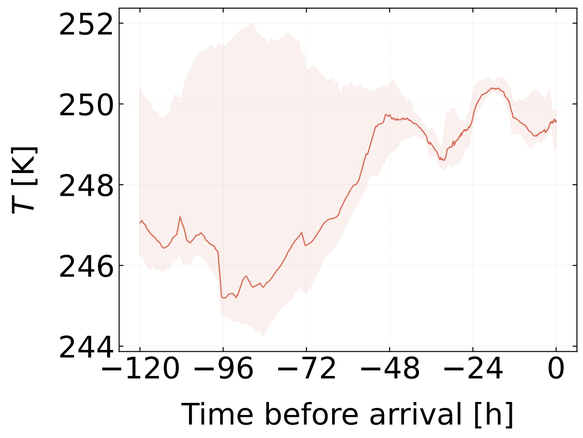
(c)


600
400
200
h [m]
−120 −96 −72 −48 −24 0
Time before arrival [h]

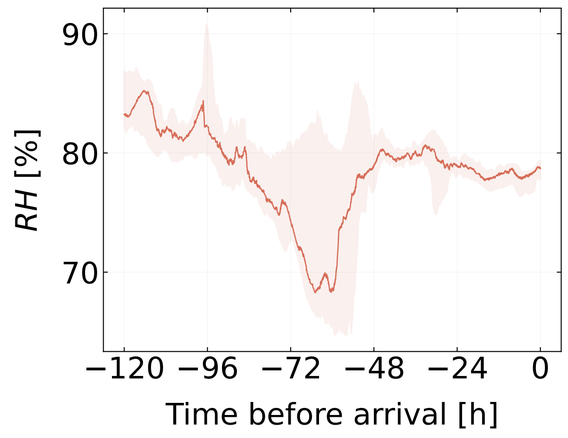
(d)


252
250
248
Θ [K]
−120 −96 −72 −48 −24 0
Time before arrival [h]

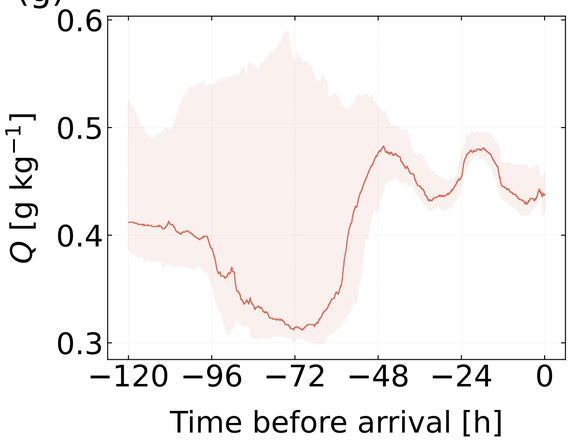
(e)


252
250
248
246
244
T [K]
−120 −96 −72 −48 −24 0
Time before arrival [h]

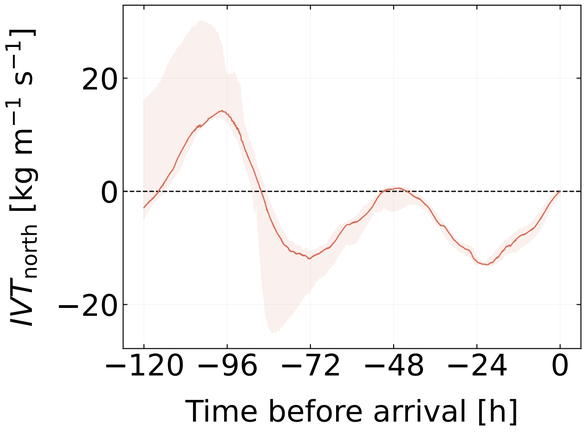
(f)


90
80
70
RH [%]
−120 −96 −72 −48 −24 0
Time before arrival [h]

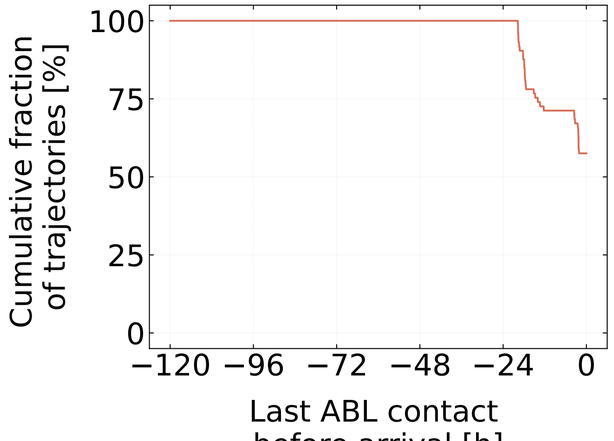
(g)


0.6
0.5
0.4
0.3
Q [g kg^{-1}]
−120 −96 −72 −48 −24 0
Time before arrival [h]

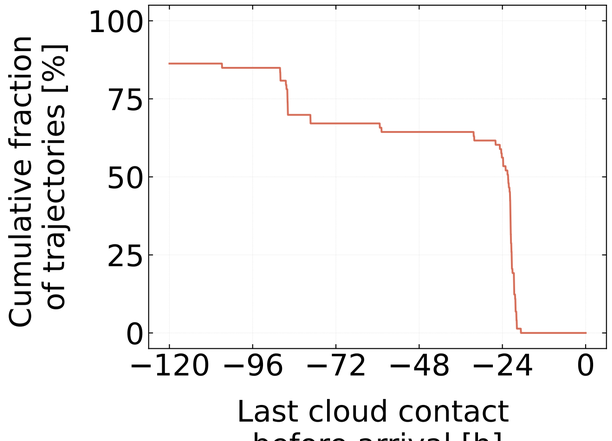
(h)


20
0
−20
IVT_{north} [kg m^{-1} s^{-1}]
−120 −96 −72 −48 −24 0
Time before arrival [h]

(i)


100
75
50
25
0
Cumulative fraction of trajectories [%]
−120 −96 −72 −48 −24 0
Last ABL contact before arrival [h]

(j)


100
75
50
25
0
Cumulative fraction of trajectories [%]
−120 −96 −72 −48 −24 0
Last cloud contact before arrival [h]