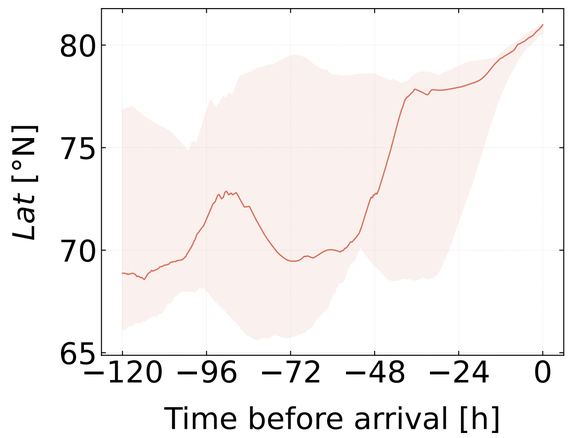
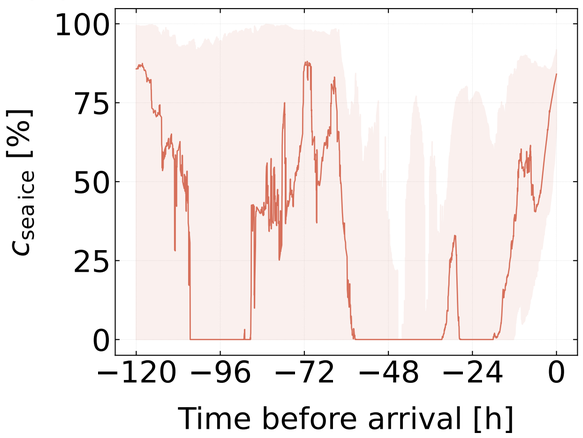
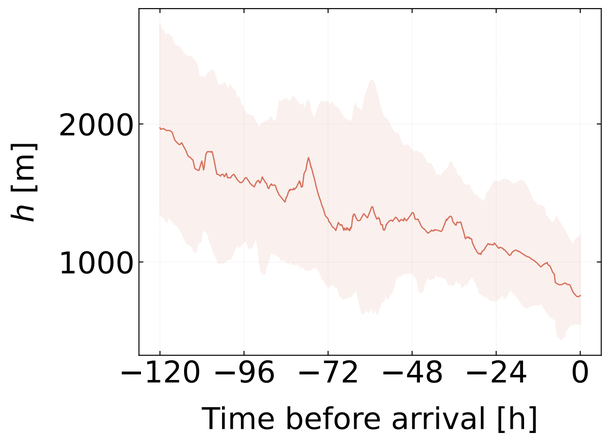
(a)


Lat [°N]
80
75
70
65
−120 −96 −72 −48 −24 0
Time before arrival [h]

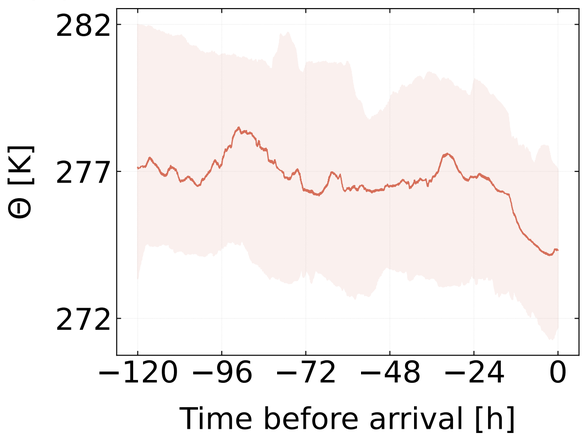
(b)


$c_{\text{sea ice}}$ [%]
100
75
50
25
0
−120 −96 −72 −48 −24 0
Time before arrival [h]

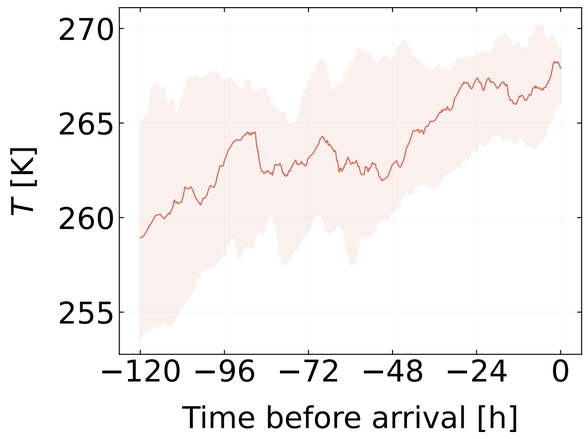
(c)


h [m]
2000
1000
−120 −96 −72 −48 −24 0
Time before arrival [h]

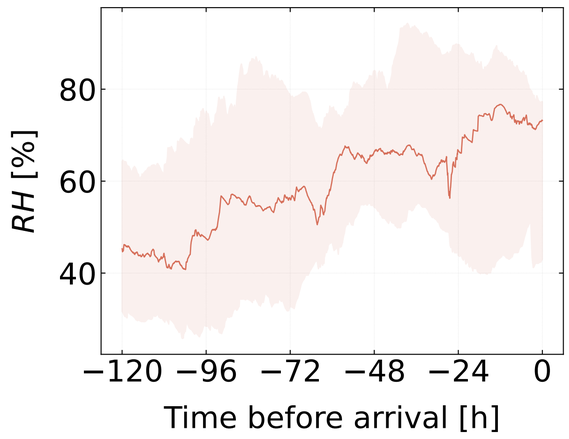
(d)


Θ [K]
282
277
272
−120 −96 −72 −48 −24 0
Time before arrival [h]

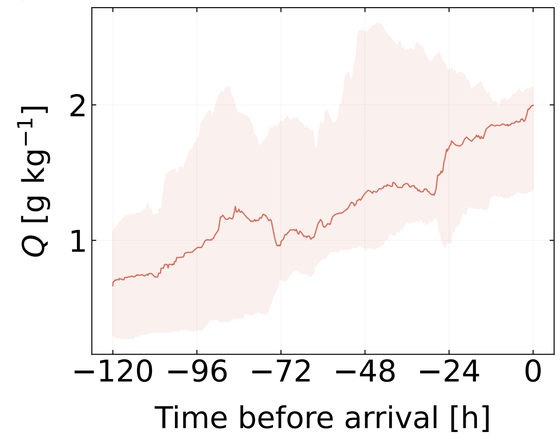
(e)


T [K]
270
265
260
255
−120 −96 −72 −48 −24 0
Time before arrival [h]

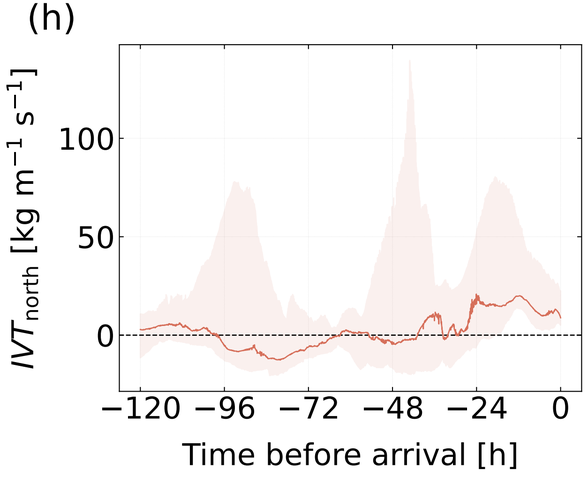
(f)


RH [%]
80
60
40
−120 −96 −72 −48 −24 0
Time before arrival [h]

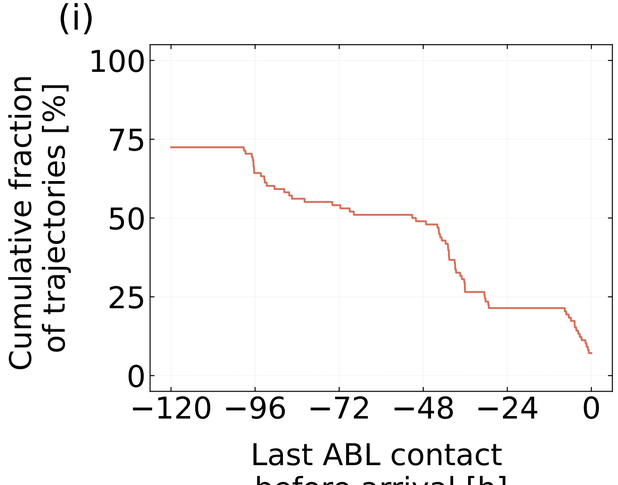
(g)


Q [g kg^{-1}]
2
1
−120 −96 −72 −48 −24 0
Time before arrival [h]

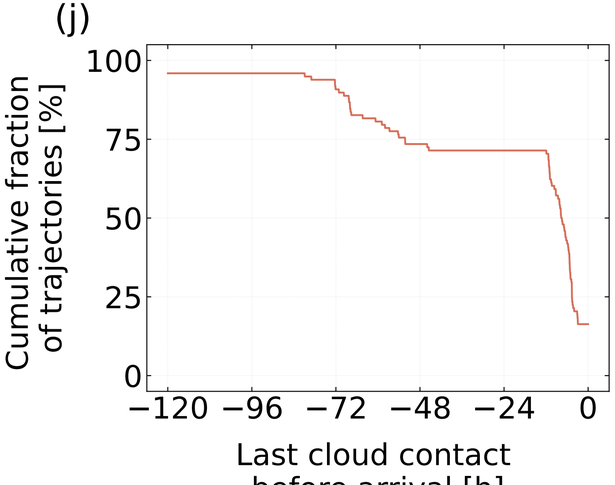
(h)


IVT_{north} [kg m^{-1} s^{-1}]
100
50
0
−120 −96 −72 −48 −24 0
Time before arrival [h]

(i)


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

(j)


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