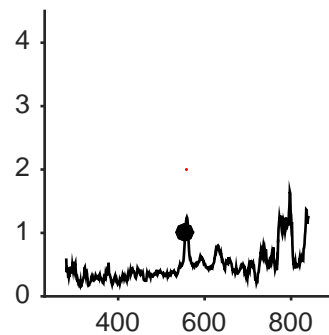
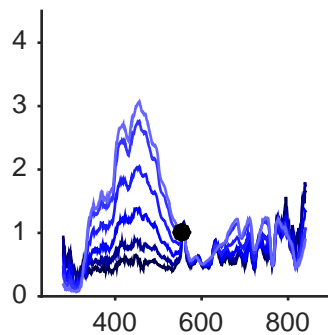


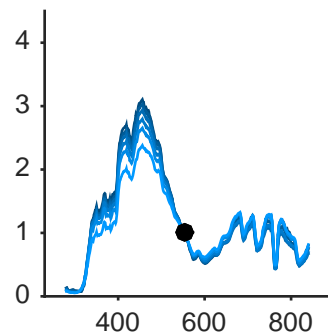
Night
 $\theta < -18^\circ$



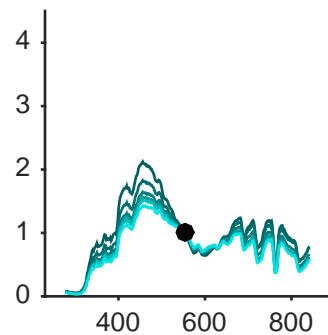
Astronomical twilight
 $-18^\circ < \theta < -12^\circ$



Nautical twilight
 $-12^\circ < \theta < -6^\circ$



Civic twilight
 $-6^\circ < \theta < -0^\circ$



Day
 $\theta > 0^\circ$

