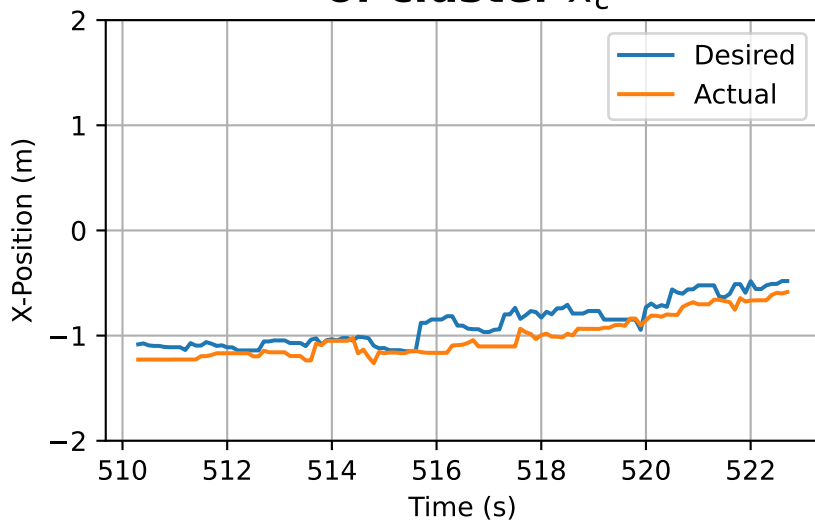
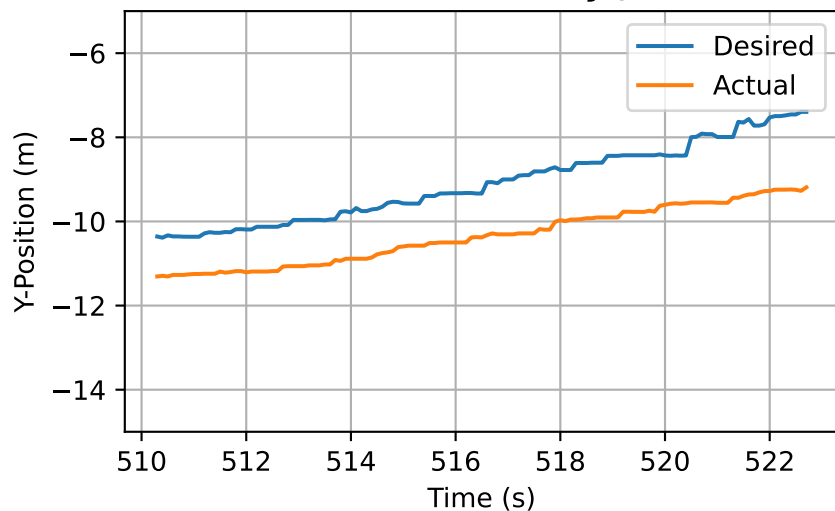


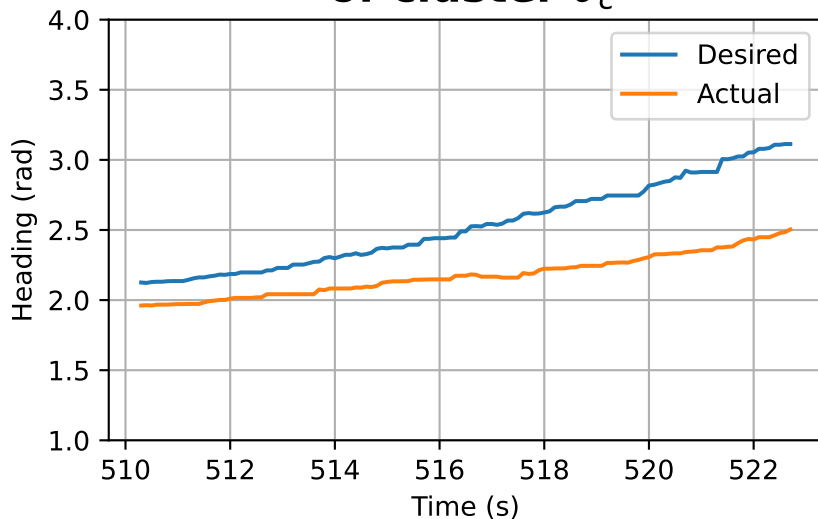
**X-position
of cluster x_c**



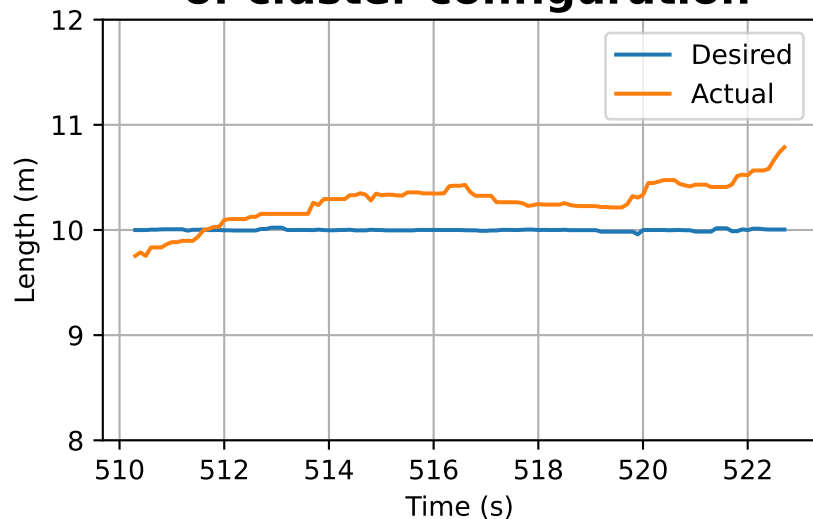
**Y-position
of cluster y_c**



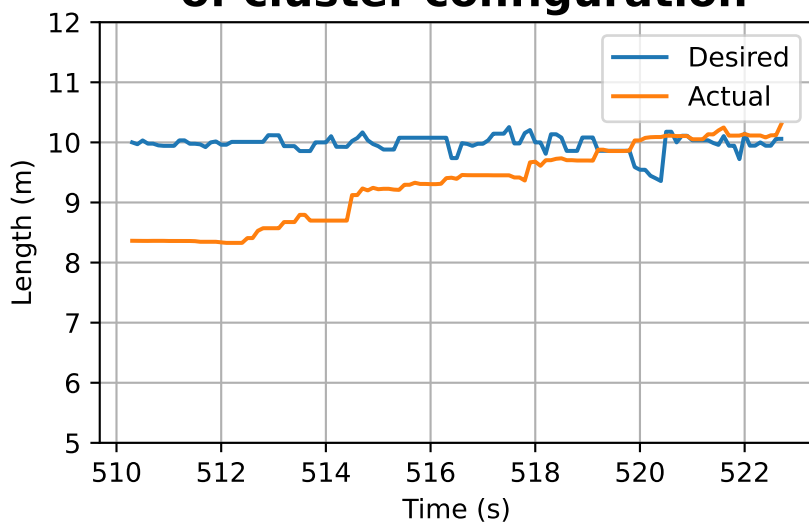
**Heading
of cluster θ_c**



**ρ -length
of cluster configuration**



**q -length
of cluster configuration**



**β -angle
of cluster configuration**

