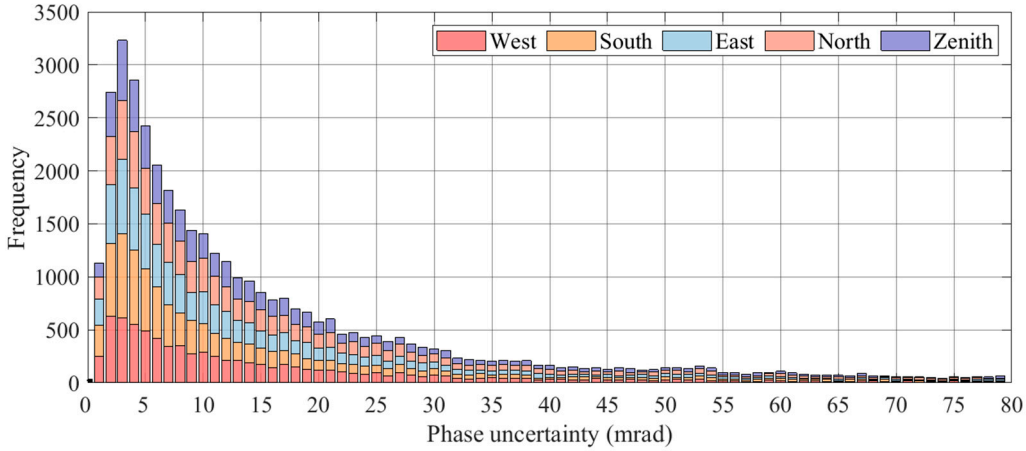
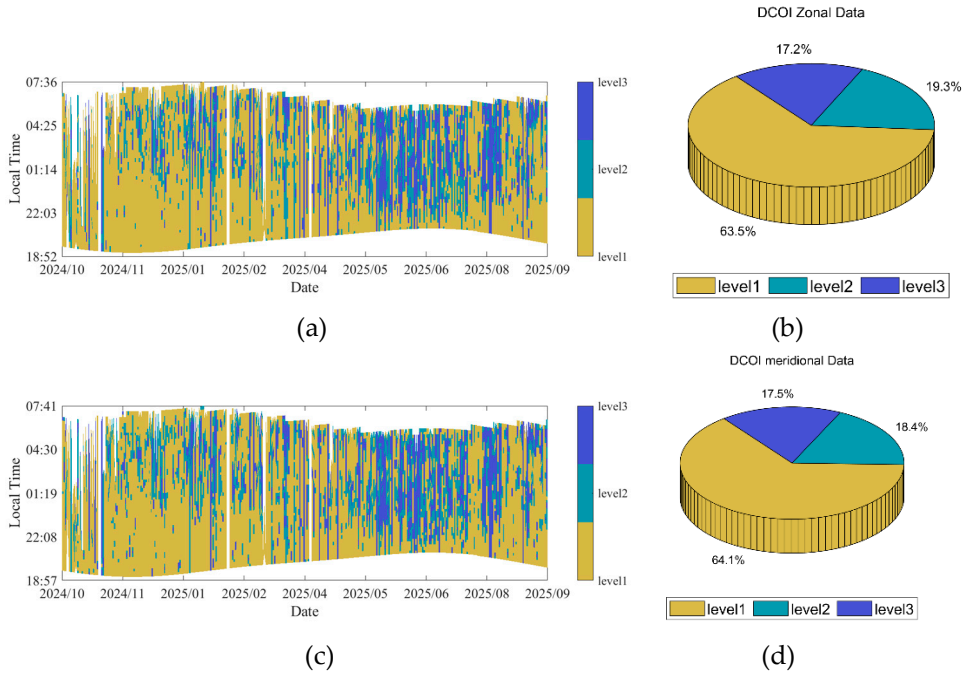


Figure S1. Frequency distribution of phase uncertainty of DCOI in five directions, where red, orange, blue, pink, and purple represent the west, south, east, north, and zenith directions, respectively.



(a) (b)

(c) (d)

Figure S2. Wind uncertainty of DCOI from October 10, 2024 to September 29, 2025. (a) Distribution of zonal wind uncertainty with date and local night time. (b) Proportion of zonal wind uncertainty levels. (c) Distribution of meridional wind uncertainty with date and local night time. (d) Proportion of meridional wind uncertainty levels. In (a) and (c), yellow represents Level 1 uncertainty, teal represents Level 2 uncertainty, and blue represents Level 3 uncertainty; the same color coding applies to the pie charts in (b) and (d).