Summary of results

********** Note: longitude and latitude are in spacecraft RTN frame
**************+

Results:
       cme_longitude: -36.07 +/- 8.01
       cme_latitude: 9.84 +/- 5.81
       cme_inclination: 338.78 +/- 5.75
       cme_diameter_1au: 0.32 +/- 0.02
       cme_aspect_ratio: 1.35 +/- 0.26
       cme_launch_radius: 10.85 +/- 1.44
       cme_launch_velocity: 408.44 +/- 125.18
       t_factor: -260.24 +/- 27.10
       cme_expansion_rate: 1.14 +/- 0.00
       magnetic_decay_rate: 1.64 +/- 0.00
       magnetic_field_strength_1au: 8.73 +/- 1.24
       background_drag: 1.10 +/- 0.48
       background_velocity: 367.77 +/- 158.05

Parameters for run with min(eps):
 --cme_longitude -24.45
 --cme_latitude 6.69
 --cme_inclination 335.34
 --cme_diameter_1au 0.34
 --cme_aspect_ratio 1.06
 --cme_launch_radius 8.17
 --cme_launch_velocity 434.11
 --t_factor -244.96
 --cme_expansion_rate 1.14
 --magnetic_decay_rate 1.64
 --magnetic_field_strength_1au 10.76
 --background_drag 1.23
 --background_velocity 197.31

Fitting points:['06/02/2022, 12:00:00', '06/02/2022, 13:00:00',
'06/02/2022, 13:30:00', '06/02/2022, 14:00:00']