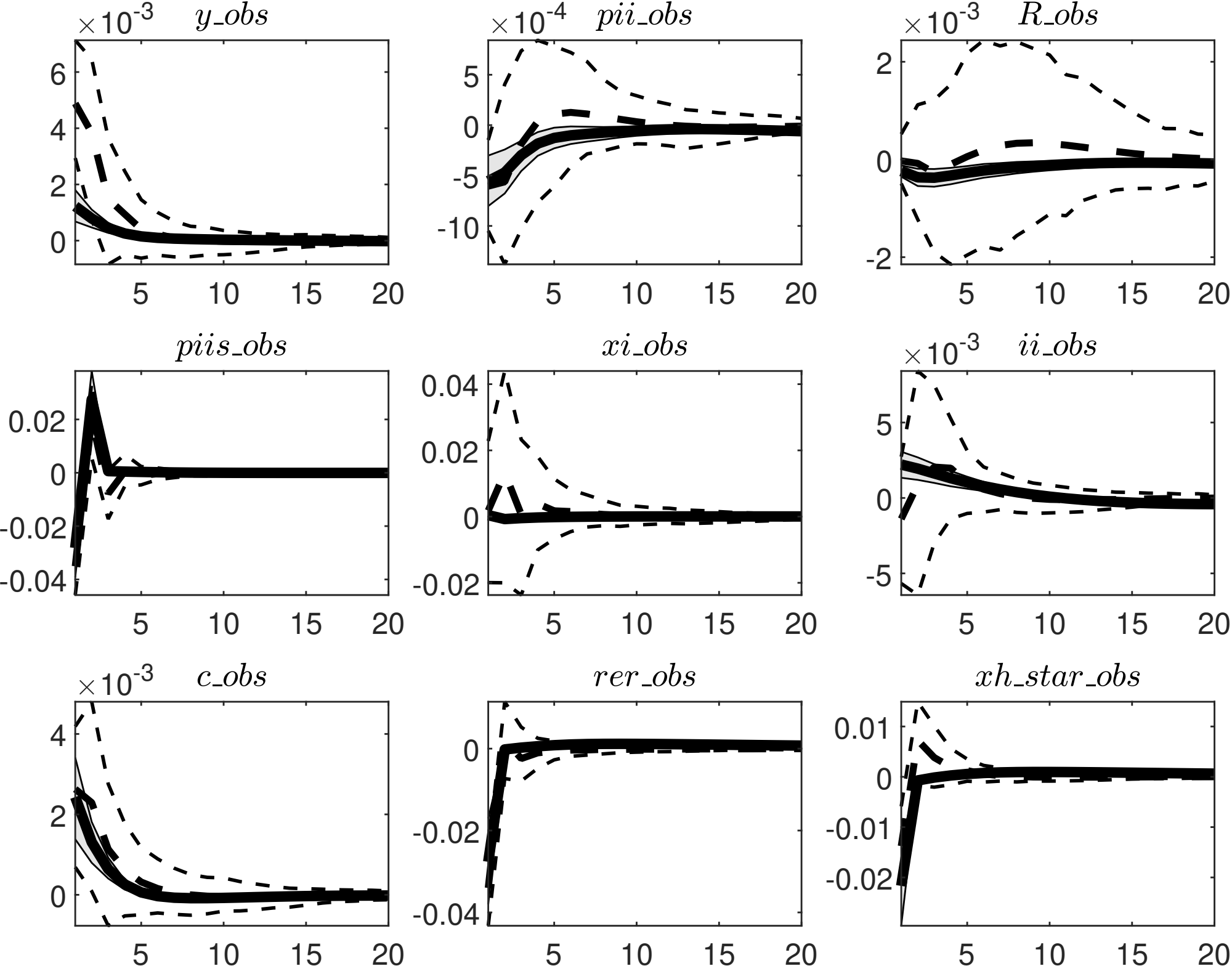
y_obs
pii_obs
R_obs
piis_obs
xi_obs
ii_obs
c_obs
rer_obs
xh_star_obs