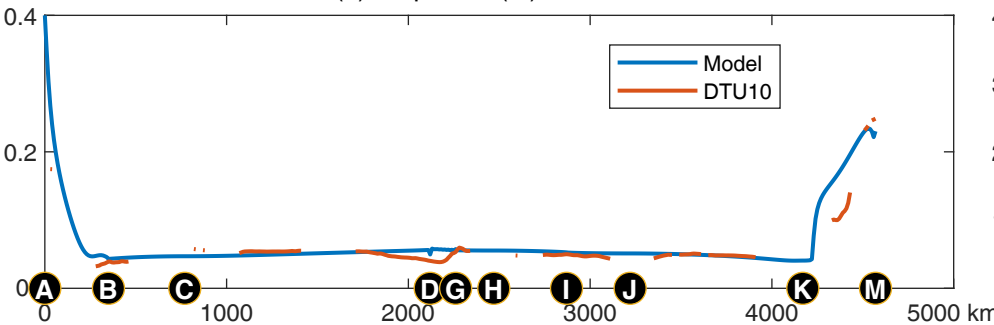
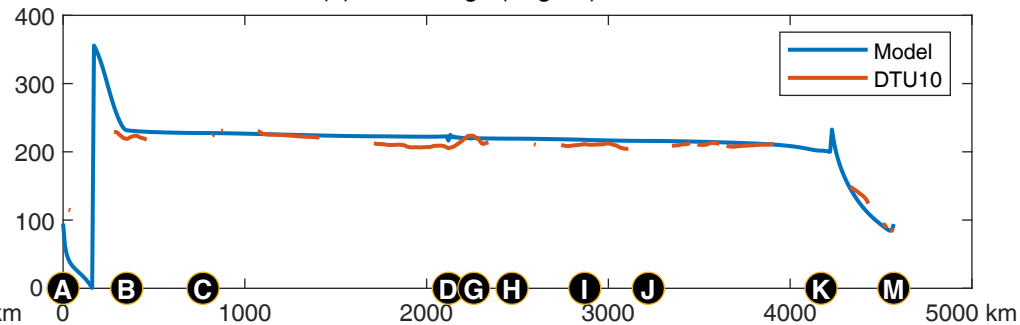
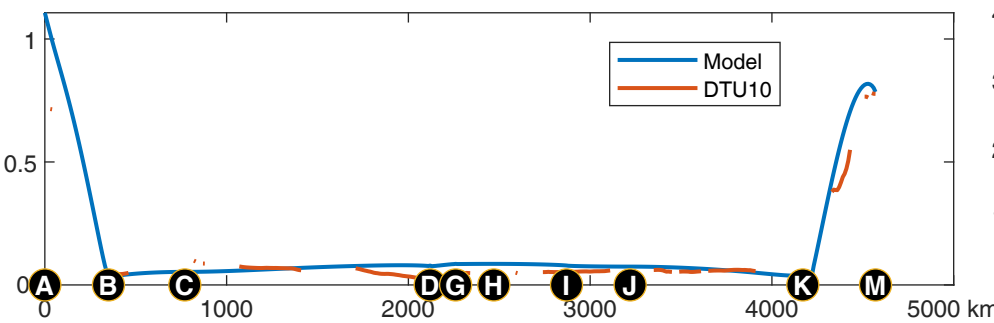


(a) Amplitude (m) of  $K_1$  tide(b) Phase lags (degree) of  $K_1$  tide(c) Amplitude (m) of  $M_2$  tide(d) Phase lags (degree) of  $M_2$  tide