hunga_timewindow2_travtimeadj.m
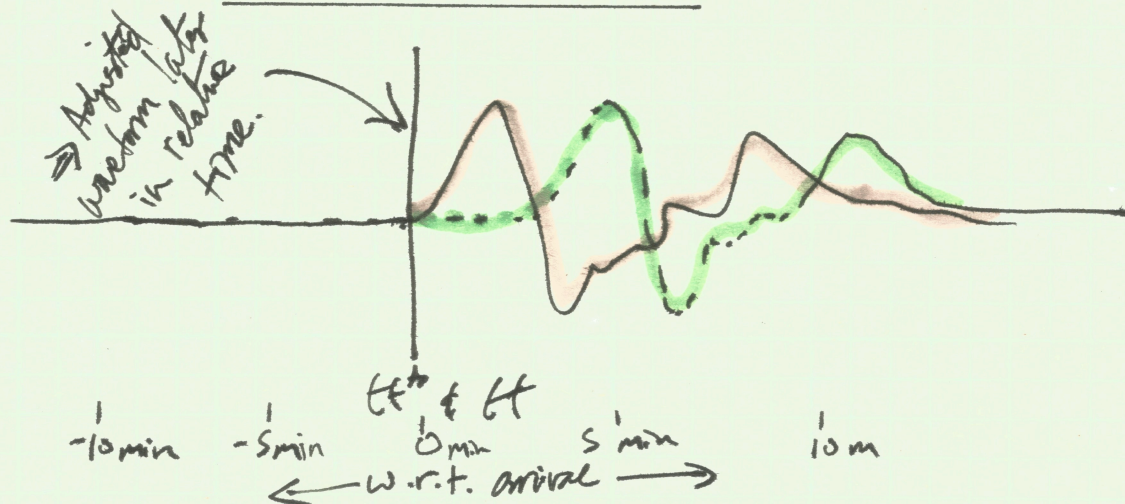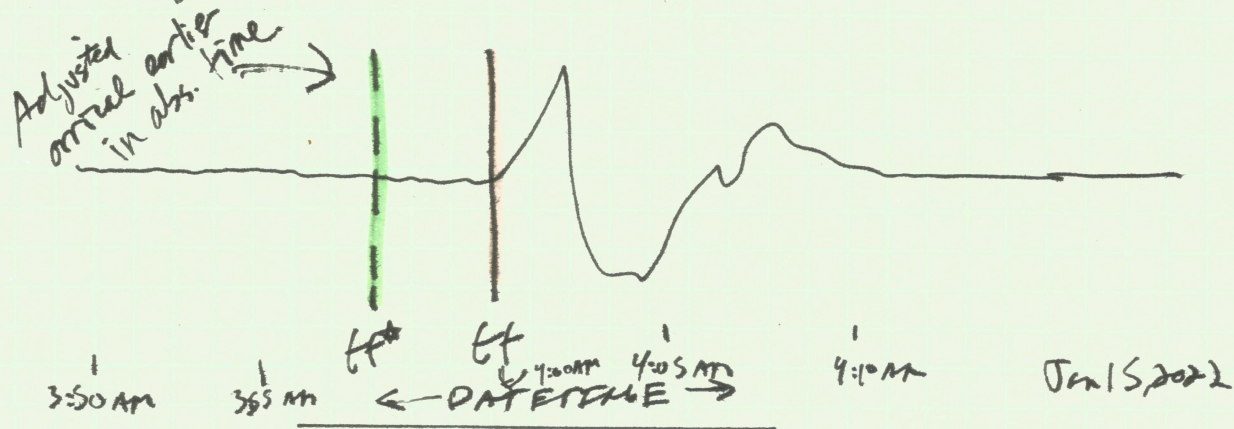
tt = travel time

$$tt^* = tt + tt_{adj}$$

> **TL;DR** ⟹ Our [negative] time adjustments shift to right waveforms plotted w.r.t. tt^* arrival

tt_{adj} is negative because true path sees some P-wave segment before conversion @ slope

⟹ if $tt_{adj} < 0$ ∴ $tt^* = tt + (-tt_{adj}) = tt$.

> $tt^* < tt$ if tt_{adj} is negative (always)

tt^* less than tt means "true theoretical" arrival is <u>earlier</u> than unadjusted theoretical arrival ⟶

Adjusted arrival earlier in abs. time ⟶

tt^* tt

3:50 AM   3:55 AM   4:00 AM   4:05 AM   4:10 AM   Jan 15, 2022

⟵ DATETIME ⟶

⟹ Adjusted waveform later in relative time.

tt^* & tt

-10 min   -5 min   0 min   5 min   10 m

⟵ w.r.t. arrival ⟶

See: verify_timewindow2_travtimeadj.m