1) Build event-pair table

dt.ct
(event-pair provided by ph2dt)

IF pick available

Yes / No

hypoDD.pha
(travel-time)
Practical travel-time

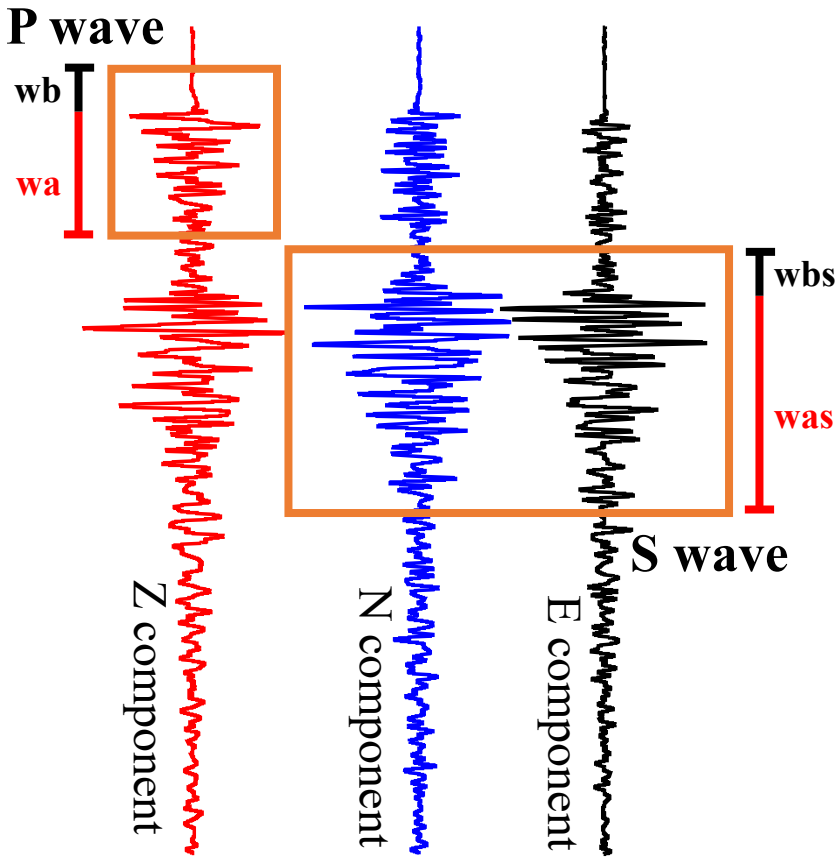
event.sel
(event information)

station.sel
(station information)

ttdb.txt
(travel-time table)
Theoretical travel-time

Event-pair table
(including travel-time of common station)

2) Build waveform database



IF wa > 0.9*(S-P)/wbs > 0.5*(S-P)

Yes -> wa = 0.9*(S-P)/wbs = 0.5*(S-P)

No -> pass

Waveform database

3) Build dt.cc

Preproccess
1 -> rmean
2 -> taper
3 -> filter

IF SNR > threshold
(e.g., 5)

Yes -> keep / No -> remove

Cross-correlation (CC)

IF CC value > threshold
(e.g., 0.7)

Yes -> keep / No -> remove

Output dt.cc

FDTCC