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- **Main motivation:** disparities between expected and observed arrival times (time residuals) can present significant challenges when associating hydroacoustic signals to events.
- **Conclusion:** It is suggested that the observed time residuals are due to the conversion from seismic to underwater sound waves mechanism.

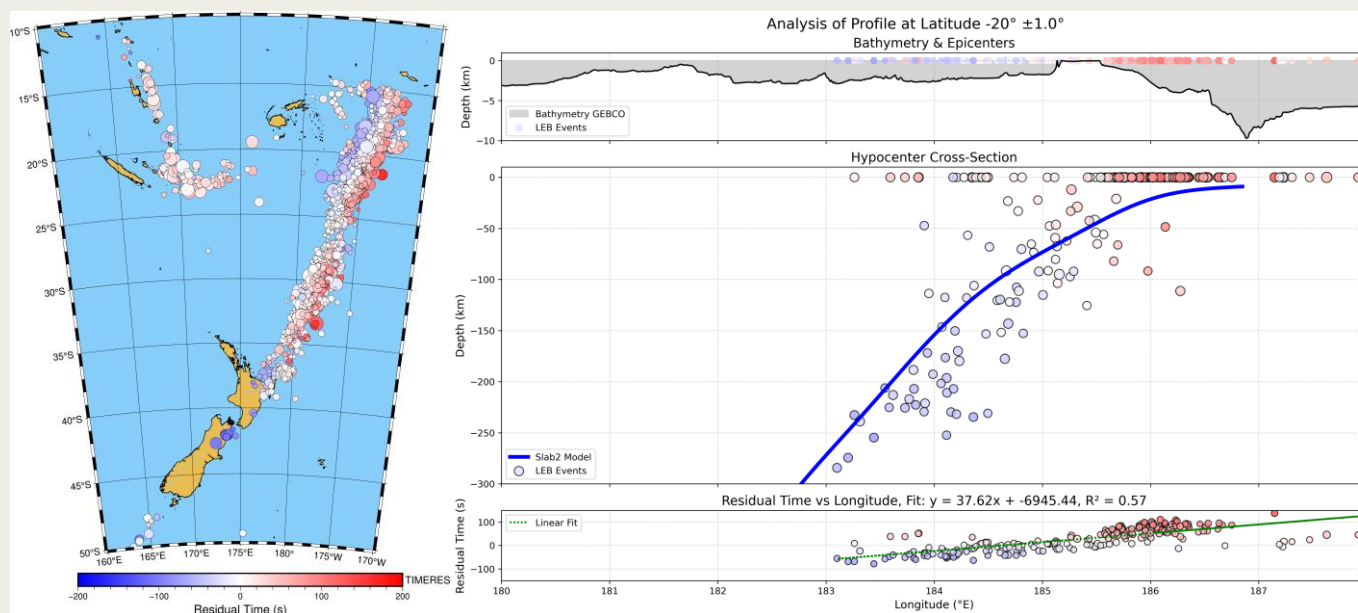


Figure: Time residuals at H03S in LEB for T-phases from earthquakes in the Tonga–Kermadec subduction zone

depend on event location along the slab