

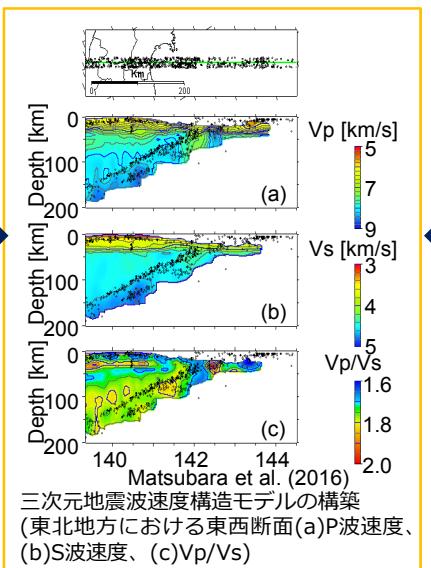
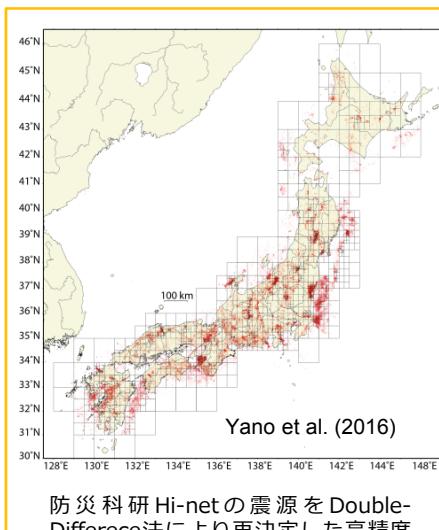
地下構造研究室(Earth's Interior Laboratory)

精度の高い震源カタログ構築

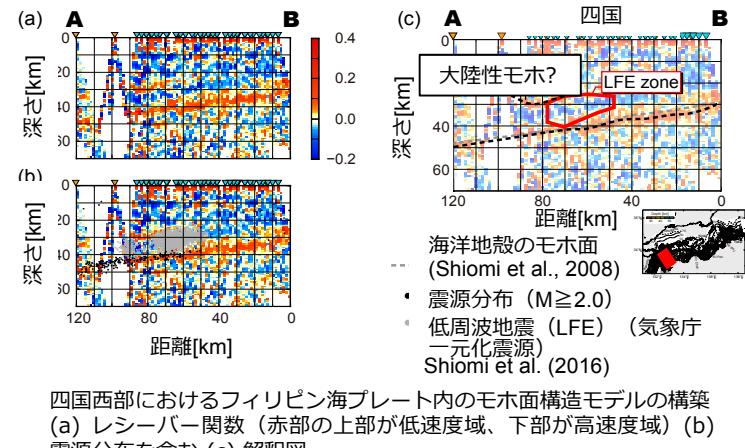
三次元的な地震波速度構造・
モホ面深度構造モデルの構築

松原 誠
汐見 勝彦
堀 貞喜
関口 渉次

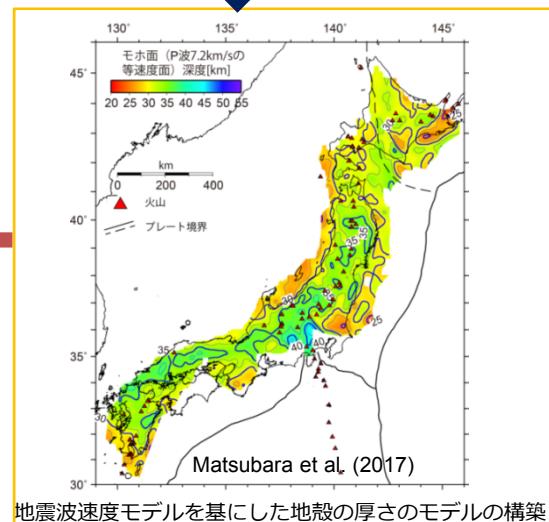
ヤノ トモコ エリザベス
武村 俊介
三好 崇之



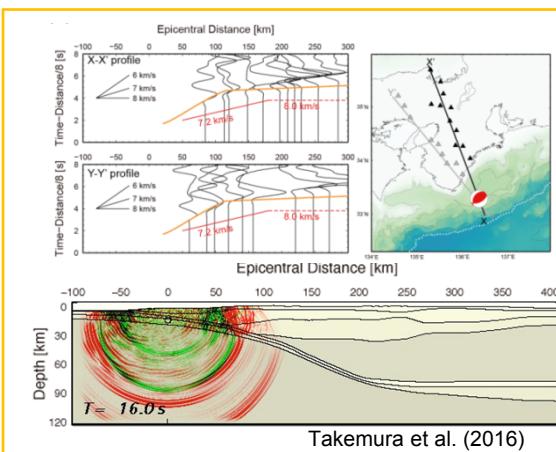
沈み込むプレートの形状構築



- 地震活動の把握・活断層による地震の最大規模の推定や伏在活断層の抽出
- 地震発生メカニズムの解明
- 各種地下構造モデルの構築
- 不均質構造モデルを用いた地震動シミュレーションへの活用



不均質構造モデル
を構築 → 地震動シミュレーション
に活用



- Takemura, S., K. Shiomi, T. Kimura, and T. Saito (2016) Systematic difference between first-motion and waveform-inversion solutions for shallow offshore earthquakes due to a low-angle dipping slab, *Earth, Planets and Space*, **68**, 149, doi:10.1186/s40623-016-0527-9.
- Takemura, S., T. Maeda, T. Furumura, and K. Obara (2016) Constraining the source location of the 30 May 2015 (Mw 7.9) Bonin deep-focus earthquake using seismogram envelopes of high-frequency P waveforms: Occurrence of deep-focus earthquake at the bottom of a subducting slab, *Geophys. Res. Lett.*, **43** (9), 4297-4302, doi:10.1002/2016GL068437.
- Matsubara M., H. Sato, T. Ishiyama, and A. D. Van Horne (2017) Configuration of the Moho discontinuity beneath the Japanese Islands derived from three-dimensional seismic tomography, *Tectonophysics*, **710-711**, 97-107, doi:10.1016/j.tecto.2016.11.025.
- Shiomi, K. (2017) Dissimilar receiver functions observed at very close stations in the Kii Peninsula, central Japan: features and causes, *Earth, Planets and Space*, **69**, 48 DOI: 10.1186/s40623-017-0631-5.
- Takemura, S., M. Kobayashi and K. Yoshimoto (2017) High-frequency seismic wave propagation within the heterogeneous crust: Effects of seismic scattering and intrinsic attenuation on ground motion modelling, *Geophys. J. Int.*, in press, doi:10.1093/gji/ggx269.
- Yano, T. E. and M. Matsubara (2017) Effect of newly refined hypocenter locations on the seismic activity recorded during the 2016 Kumamoto Earthquake sequence, *Earth, Planets and Space*, **69**, 74, doi:10.1186/s40623-017-0656-9.
- Yano, T. E., T. Takeda, M. Matsubara, and K. Shiomi (2017) Japan unified high-resolution relocated catalog for earthquakes (JUICE): Crustal seismicity beneath the Japanese Islands, *Tectonophysics*, **702**, 19-28, doi:10.1016/j.tecto.2017.02.017.