**SELECTED PAPER READING LIST- HIKURANGI SUBDUCTION ZONE**

Provisional- September 2016

*Please note these are arranged chronologically within each section, not alphabetically. Some papers are listed twice when they address more than one topic.*

**RECENT OVERVIEW PAPERS/GEOPHYSICAL DATASETS/PROPOSALS**

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Saffer, D.M.; Barnes, P.; Wallace, L.; Henrys, S.; Underwood, M.; Torres, M.; the Hikurangi margin working group. 2011. Unlocking the secrets of slow slip by drilling at the northern Hikurangi subduction margin, New Zealand: Riserless drilling to sample an monitor the forearc and subducting plate. IODP proposal 781A-Full. Link to be found at: https://www.iodp.org/expeditions next to 781A schedule listing.

Townend, J., S. Sherburn, R. Arnold, C. Boese, and L. Woods (2012), Three-dimensional variations in present-day tectonic stress along the Australia Pacific plate boundary in New Zealand, Earth Planet. Sci. Letters, 353–354, 47–59, doi:10.1016/j.epsl.2012.08.003.

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**GEODETIC STRAIN, KINEMATICS AND PLATE ROTATIONS**

Walcott, R.I. (1984), The kinematics of the plate boundary zone through New Zealand: A comparison of short and long-term deformation, Geophys. J. Astron. Soc., 79, 613-633.

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Nicol A., and L.M. Wallace (2007), Temporal stability of deformation rates: Comparison of geological and geodetic observations, Hikurangi subduction margin, New Zealand, Earth Planet. Sci. Lett., 258, 397–413, doi:10.1016/j.epsl.2007.03.039.

Lamb, S. (2011), Cenozoic tectonic evolution of the New Zealand plate-boundary zone: A paleomagnetic perspective, Tectonophysics, 509(3-4), 135-164, doi: 10.1016/j.tecto.2011.06.005.

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**SLOW-SLIP- GEODETIC OBSERVATIONS**

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Wallace, L.M.; Beavan, J. 2010. Diverse slow slip behavior at the Hikurangi subduction margin, New Zealand. Journal of Geophysical Research-Solid Earth 115: B12402; doi: 10.1029/2010jb007717

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Hamling, I.J. and Wallace, L.M., 2015. Silent triggering: Aseismic crustal faulting induced by a subduction slow slip event. Earth and Planetary Science Letters, 421, pp.13-19.

**MEGATHRUST PROPERTIES, COUPLING AND SLOW-SLIP- MECHANICS**

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**HAZARD- PALEOEARTHQUAKES AND TSUNAMI**

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**MAGNETOTELLURICS**

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