***Important information to accompany* *the***

***Southern California Breakup and Paleomagnetic Vector Rotations,   
20 Ma to Present***

This movie shows a model for the tectonic evolution of southern California and northern Baja California, from twenty million years ago to present, showing how remnant paleomagnetic vectors in rocks of the Transverse Ranges block would be rotated compared to those in rocks of the surrounding regions. Download package includes the animation and an image showing the paleomagnetic declination data from the western Transverse Ranges.

This movie was created by Tanya Atwater using Photoshop and Morph. Paleomagnetic Data Figure is from Atwater, T., 1998, "Plate Tectonic History of Southern California with emphasis on the Western Transverse Ranges and Santa Rosa Island", in Weigand, P. W., ed., *Contributions to the geology of the Northern Channel Islands, Southern California*: American Association of Petroleum Geologists, Pacific Section, MP 45.

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The animation clips on this site are free works. You may download, copy, distribute, and modify them as suits your purposes. Acknowledgement of authorship and reference to this website is appreciated. Note that many were constructed in the early 2000s when computer files were much more restricted in size and delivery rate. Hopefully some are still useful.

Complaints, corrections, comments and, especially, suggestions for how to make these materials more useful are always welcomed: [atwater@geol.ucsb.edu](mailto:atwater@geol.ucsb.edu)