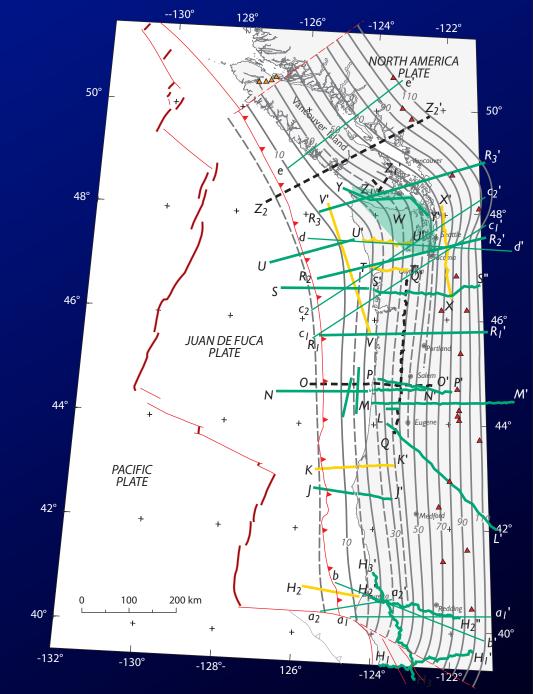
LOCATION OF DATA USED TO CONSTRUCT SLAB-DEPTH SURFACE

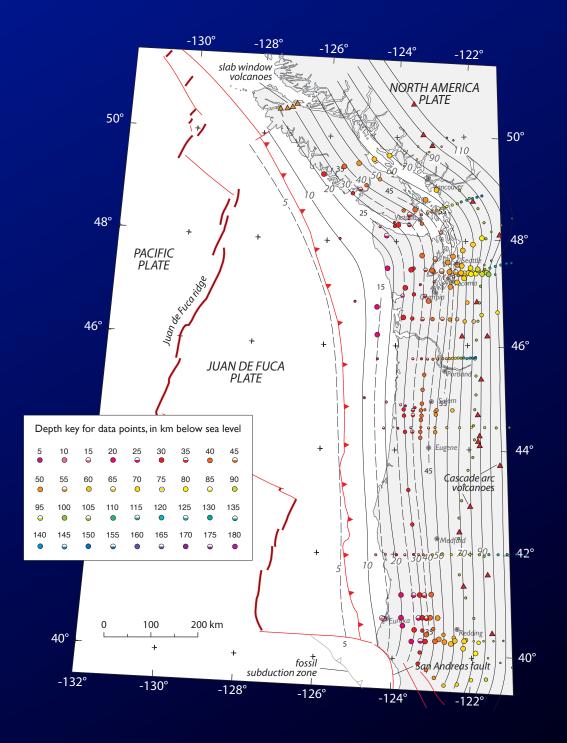
published model includes available constraints through ~2003



Modified from McCrory et al., 2004, Depth to the Juan de Fuca slab beneath the Cascadia subduction margin: A 3D model for sorting earthquakes, USGS DS-91

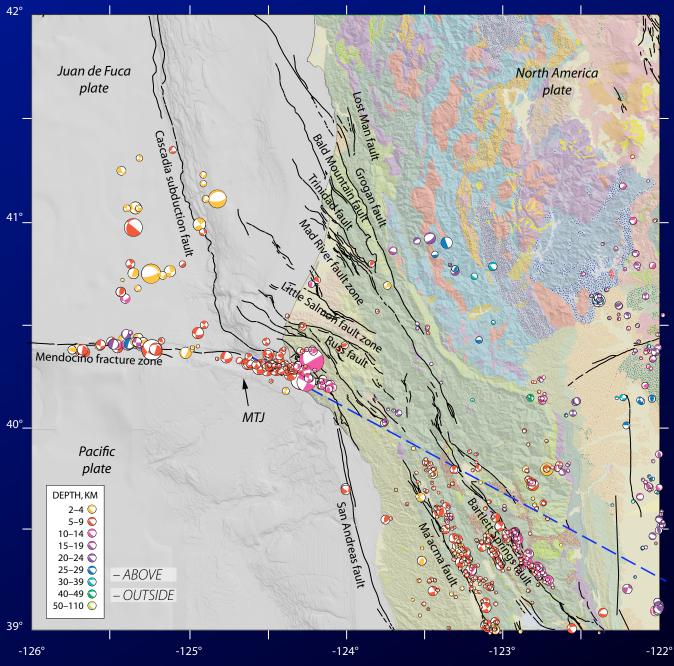
DATA POINTS USED TO CONSTRUCT SLAB SURFACE IN »

McCrory et al., 2004,
Depth to the Juan de Fuca slab beneath the Cascadia subduction margin:
A 3D model for sorting earthquakes,
USGS Data Series 91



REVISIONS CURRENTLY UNDERWAY

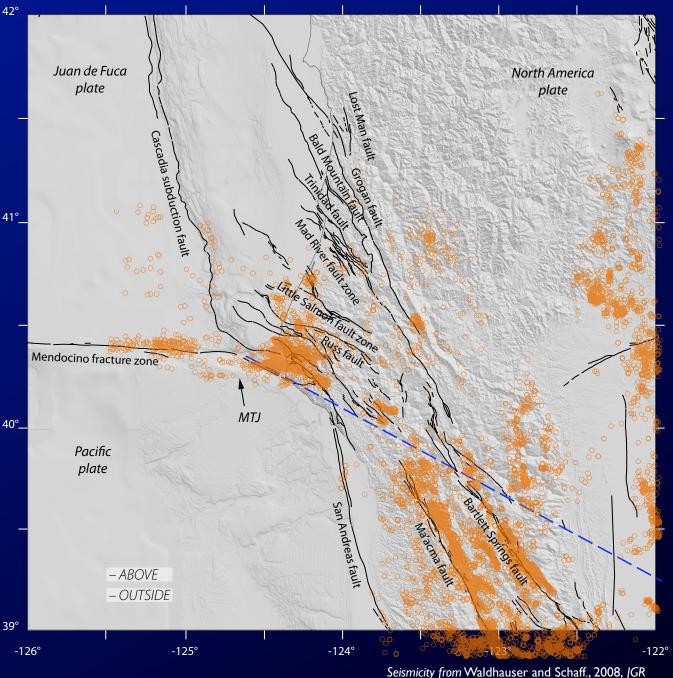
slab surface too deep in parts of northern California » slab mechanisms leaking through



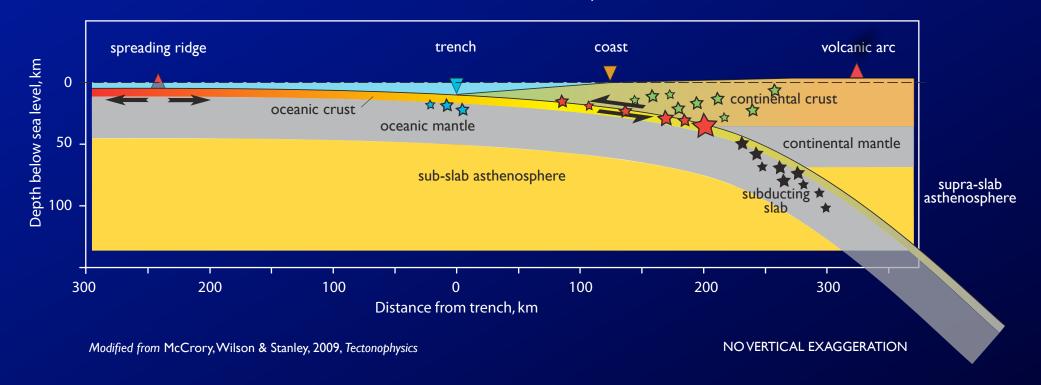
Modified from Pollitz et al., 2009, Remarks on interseismic deformation in the western Unites States, to be submitted to JGR

REVISIONS CURRENTLY UNDERWAY

using 1983-2004 NCSN DD catalog to update slab surface in northern California

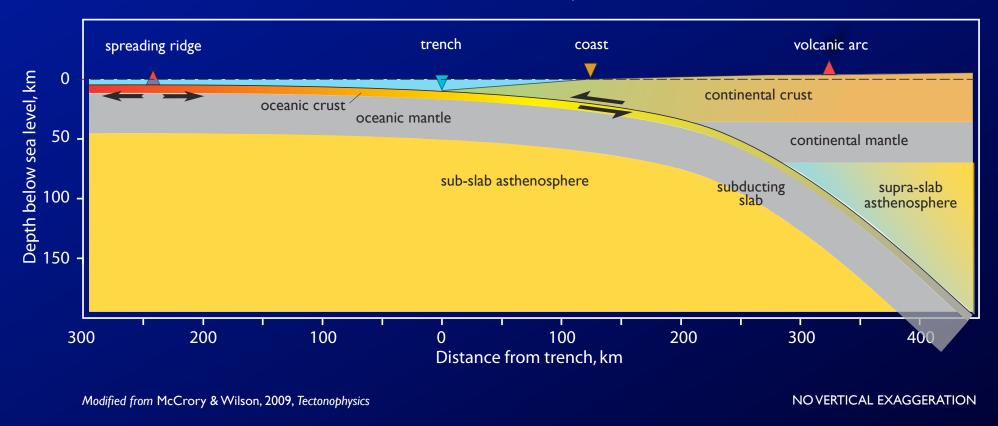


PACIFIC - JUAN DE FUCA - NORTH AMERICA PLATE SYSTEM, BEFORE CA. 28 MA



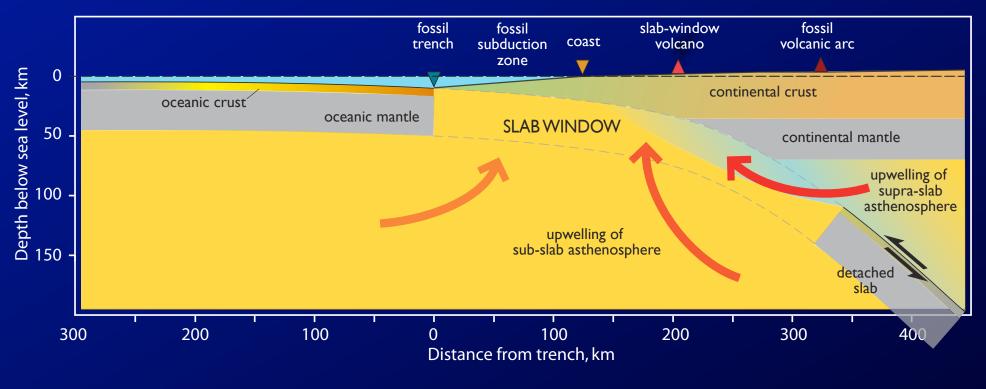
side view of a subduction boundary

PACIFIC - JUAN DE FUCA - NORTH AMERICA PLATE SYSTEM, BEFORE CA. 28 MA



SIDE VIEW OF CALIFORNIA SUBDUCTION BOUNDARY BEFORE FORMATION OF A SLAB WINDOW

PACIFIC - JUAN DE FUCA - NORTH AMERICA PLATE SYSTEM, AFTER CA. 25 MA

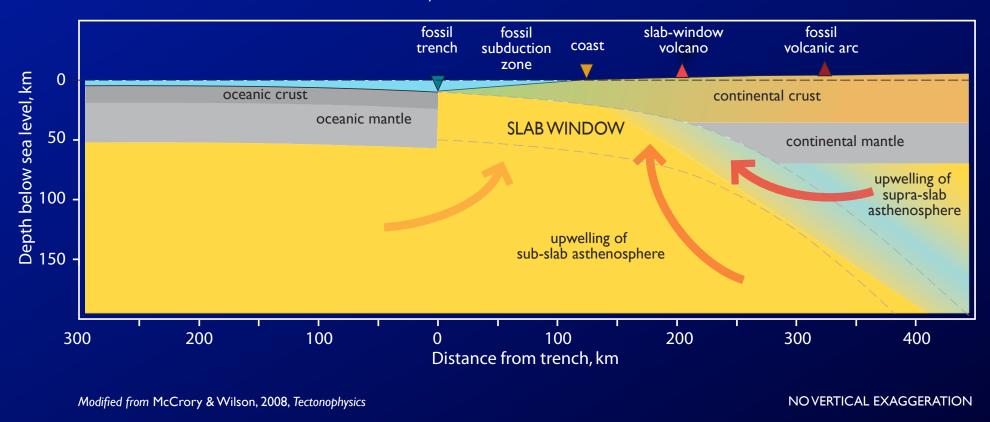


Modified from McCrory & Wilson, 2008, Tectonophysics

NO VERTICAL EXAGGERATION

SIDE VIEW OF CALIFORNIA CONTINENTAL MARGIN AT NORTH EDGE OF SLAB WINDOW

PACIFIC - NORTH AMERICA PLATE SYSTEM, AT PRESENT



SIDE VIEW OF CALIFORNIA CONTINENTAL MARGIN AT MODERN MENDOCINO TRIPLE JUNCTION

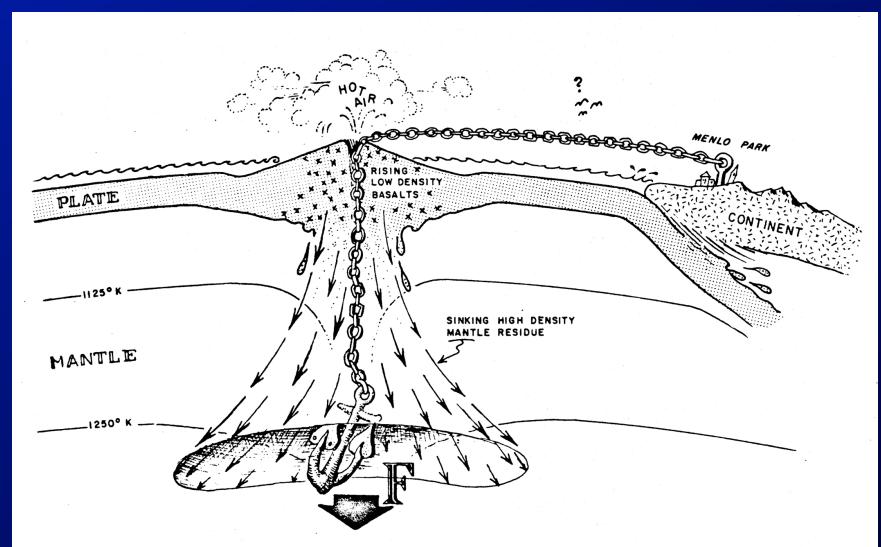


Fig. 2. Gravitational anchor theory, showing the origin of Hawaii [Shaw and Jackson, 1973]. According to this hypothesis, even the motion of California can be explained (although the motions of Californians remain as mysterious as ever).

Cartoon from Holden & Vogt, 1977, Eos.





