

TABLE DR1. MIOCENE MARINE ROCKS FROM THE GULF OF CALIFORNIA

Locality*	Location	Unit	Age ( <i>Reference</i> ) <sup>†</sup>	Comments
1	San Gorgonio Pass	Imperial Formation	6.3–6.5 Ma ( <i>McDougall et al., 1999</i> )	Combined analysis of micropaleontology, paleoenvironment, and sea-level fluctuations with isotopic ages of bounding volcanic strata
2	Imperial Valley	Fish Creek Gypsum	4.3–6.3 Ma ( <i>Dean, 1996</i> )	Micropaleontology. Fish Creek Gypsum underlies the Imperial Formation
3	Colorado River Trough	Bouse Formation	5.97 ± 0.07 Ma ( <i>Spencer et al., 1998</i> )	Tuff bed in Hualapai Limestone member of Muddy Creek Formation; precedes sedimentation from the Colorado River that was coeval with Bouse Formation
4	Sierra San Felipe	San Felipe marine sequence	5.5–6.0 Ma ( <i>Boehm, 1984</i> ) [6.8 ± 0.3 Ma] ( <i>Stock, 1997</i> )	Micropaleontology and <sup>40</sup> Ar/ <sup>39</sup> Ar on alkali feldspar from detrital pumiceous material
5	Arroyo Matomí	Puertecitos Formation	3.27 ± 0.04 ( <i>Martín-Barajas et al., 1997</i> ) [6.1 ± 0.5 Ma] ( <i>Nagy et al., 1999</i> )	Matomí mudstone member overlies ca. 6.1 Ma tuff of Arroyo El Canelo and underlies ca. 3.3 Ma tuff of Valle Curbina
6	Isla Tiburón	Southwest Isla Tiburón marine sequence	4–6 Ma ( <i>this study</i> )	Marine rocks underlain by ca. 5.7 Ma tuff of Arroyo Sauzal and overlain by ca. 4 Ma Rhyodacite of Cerro Starship. Microfossils indicate 6.4–4 Ma age ( <i>Gastil et al., 1999</i> )
7	Bahía de Los Angeles	Unnamed marine sedimentary rocks	[12.1 ± 0.1 Ma] ( <i>Delgado-Argote et al., 2000</i> )	Marine sedimentary rocks overlying andesite lava flows are interpreted by <i>Delgado-Argote et al. (2000)</i> as an intertidal environment through which local basaltic bodies rose as a peléan dome; however, because of lack of a clear crosscutting relationship with marine strata, these ages are considered here as only a maximum constraint on the age of overlying marine sediments
8	Santa Rosalía	Boleo Formation	ca. 7 Ma ( <i>Holt et al., 2000</i> )	<sup>40</sup> Ar/ <sup>39</sup> Ar age of 6.76 ± 0.90 Ma on interstratified Cinta Colorada tephra combined with magnetostratigraphy
9	San Jose del Cabo	Trinidad Formation	6.9 Ma ( <i>Carreño, 1992</i> ) 7.5 Ma ( <i>Molina-Cruz, 1994</i> )	Benthic foraminifera and radiolarian microfossils, respectively, from the basal diatomite member of the Trinidad Formation
10	Islas Tres Marias	Arroyo Hondo sedimentary rocks	L. Mio.–E. Plio. ( <i>Carreño, 1985</i> ) 7.0–8.2 Ma ( <i>McCloy et al., 1988</i> )	Calcareous microfossils (planktonic foraminifera, ostracodes, and calcareous nannoplankton) and radiolaria, respectively

\* Locality numbers in Figure 1A.

† Ages in brackets are maximum age constraints only.