Title of Manuscript = Oxygen Isotope Geochemistry of Mafic Phenocrysts in Primitive Mafic Lavas from the Southernmost Cascade Range, California

Slab-Derived Fluids - Model Mixing Parameters

	$\delta^{18}O$	Sr	$^{87}Sr/^{86}Sr$	Nd	$^{144}Nd/^{143}Nd$	Hf	$^{176}Hf/^{177}Hf$
Material							
MORB	5.1	5.8	0.702400	0.65	0.513250	0.2	0.283160
~100 Ma Sediment & fluid est.	15	4500	0.7043	40	0.5115	15	0.28265
Modern SMC peridotite	5.15	40	0.7035	1	0.51285	0.3	0.28305
Modern Gorda Slab Fluids	15	4681	0.7027	147	0.51307	27	0.28316
	10	4681	0.7027				
Fluid from altered upper basaltic oceanic crust	2	4681	0.7027				
Spike[a]	5.345	100000	0.705	6000	0.51245	1000	0.2829

[a]The spike can have a wide range of $\delta^{18}O$ values depending on origin. This value was used in the modeling. Outcome of mixing with other selections between 0 and 10 ‰ is insensitive at low concentrations.

Values from Borg et al. (1997, 2002) and references therein.