

**Table 1** Identified studies quantifying SGD from tropical islands. Positions of the named islands are shown in Fig. 1

Location	Reference	SGD [m <sup>3</sup> m <sup>-1</sup> a <sup>-1</sup> ]	SGD [m <sup>3</sup> m <sup>-2</sup> a <sup>-1</sup> ]	SGD [m <sup>3</sup> s <sup>-1</sup> ]	Nutrients measured?
<i>Volcanic islands</i>					
Hawaiian archipelago					
Hawaii, Honokohau	Bienfang 1980			1.18	No
Hawaii, Maunalua Bay	Dimova et al. 2012			0.07	No
Hawaii, O'ahu	Garrison et al. 2003			0.16	Yes
Hawaii, Honokohau	Johnson et al. 2008			0.10	No
Hawaii, Kona Coast	Knee et al. 2010	35,000			Yes
Hawaii, Honokohau	Peterson et al. 2009			0.10	No
Hawaii, Spencer Beach	Street et al. 2008		53		Yes
Hawaii, Puako Bay	Street et al. 2008		20		Yes
Hawaii, Puako Bay	Paytan et al. 2006	2407			Yes
Hawaii, Puako Bay	Kay et al. 1977	5494			Yes
Hawaii, Kaloko Fishpond	Street et al. 2008		141		Yes
Hawaii, Kaloko Fishpond	Paytan et al. 2006	4341			Yes
Hawaii, Honokohau	Street et al. 2008		102		Yes
Hawaii, Keauhou Bay	Street et al. 2008		73		Yes
Hawaii, Kealekekua Bay	Street et al. 2008		26		Yes
Hawaii, Honaunau Bay	Street et al. 2008		80		Yes
Maui, Honolua Bay	Street et al. 2008		35		Yes
Maui, Kahana	Street et al. 2008		46		Yes
Maui, Kahana	Paytan et al. 2006	3086			Yes
Maui, Mahinahina	Street et al. 2008		49		Yes
Maui, Honokowai	Street et al. 2008		40		Yes
Moloka'i, Kapuaiwa	Street et al. 2008		139		Yes
Moloka'i, Kamiloloa	Street et al. 2008		93		Yes
Moloka'i, Ualapu'e	Street et al. 2008		53		Yes
La Réunion					
	Cuet et al. 2011	1022			Yes
	Rad et al. 2007	9882 <sup>a</sup>			No
Martinique					
	Rad et al. 2007	4849 <sup>a</sup>			No
Mauritius					
	Paytan et al. 2006	3556			Yes
	Povinec et al. 2012	9490			Yes