

Application of B, Mg, Li and Sr isotopes in acid-sulfate vent fluids as tracers for fluid-rock interaction in back-arc hydrothermal systems

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Table S1

Table S1. Measured Na/Mg, K/Mg and Li/Mg ratios in acid-sulfate, hybrid and black smoker fluids from North Su and DESMOS.

Supplements 1: Measured Na/Mg, K/Mg and Li/Mg ratios in acid-sulfate, hybrid and black smoker fluids from North Su and DESMOS

Edifice	Working ID	Year of sampling	IGT T ^a °C	pH ^a 25°C	Mg ^a (mm)	Na/Mg ^a (mm/mm)	K/Mg ^a (mm/mm)	Li/Mg ^a (μm/mm)	
acid-sulfate (white smoker) fluids									
North Su	NS1	J2-221-IGT7	2006	48	1.8	49.6	9.0	0.2	0.7
	NS1	J2-221-IGT8	2006	47	1.9	50.4	9.0	0.2	0.6
	NS1	J2-221-M4	2006		1.9	49.8	9.0	0.2	0.7
	NS2	J2-221-IGT6	2006	206	0.9	39.2	8.7	0.2	0.7
	NS2	J2-221-IGT5	2006	215	0.9	41.1	8.7	0.2	0.8
	NS2	J2-221-M2	2006		0.9	41.1	8.7	0.2	0.8
	NS9	023-ROV-01	2011	95	1.4	44.7	9.4	0.2	0.8
	NS9	023-ROV-02	2011	103	1.2	42.7	9.2	0.2	1.0
	DESMOS	D1	J2-220-IGT1	2006	113	1.0	44.9	8.7	0.2
D1		J2-220-IGT2	2006	117	1.0	45.1	8.7	0.2	0.5
D1		J2-220-M4	2006		1.3	50.0	8.8	0.2	0.6
D2		J2-220-IGT3	2006	69	1.4	49.2	8.6	0.2	0.4
D2		J2-220-M2	2006		1.4	49.4	8.5	0.2	0.5
D2		J2-220-IGT4	2006	70	1.4	49.3	8.6	0.2	0.6
hybrid smoker fluids									
North Su	NS4	J2-223-IGT5	2006	241	1.5	23.5	1.3	0.3	17.8
	NS4	J2-223-IGT6	2006	203	1.5	24.2	1.3	0.3	15.7
	NS8	021-ROV-01	2011	169	2.4	43.5	11.3	0.4	2.8
	NS11	047-ROV-03	2011	149	2.0	44.2	10.9	0.3	2.9
	NS11	047-ROV-04	2011	129	1.9	40.8	11.6	0.4	4.0
black smoker fluids									
North Su	NS3	J2-223-IGT7	2006	300	3.5	3.4	158.6	18.0	235.9
	NS5	J2-227-IGT2	2006	299	3.4	7.4	60.5	5.9	75.7
	NS5	J2-227-M2	2006		4.8	27.4	16.8	1.0	12.7
	NS6	J2-227-IGT3	2006	325	2.8	1.6	376.4	40.4	531.4
	NS6	J2-227-M4	2006		2.9	5.1	105.4	10.7	150.4
	NS7	019-ROV-01	2011	332	3.2	15.3	36.2	3.2	38.0
	NS10	045-ROV-02	2011	312	4.8	18.9	29.7	2.4	26.4
bottom seawater	J2-228-M4	2006	3	7.9	52.4	9.0	0.2	0.5	