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North Ryde, Sydney, NSW
(Australia), Private Bag 13196, Victoria

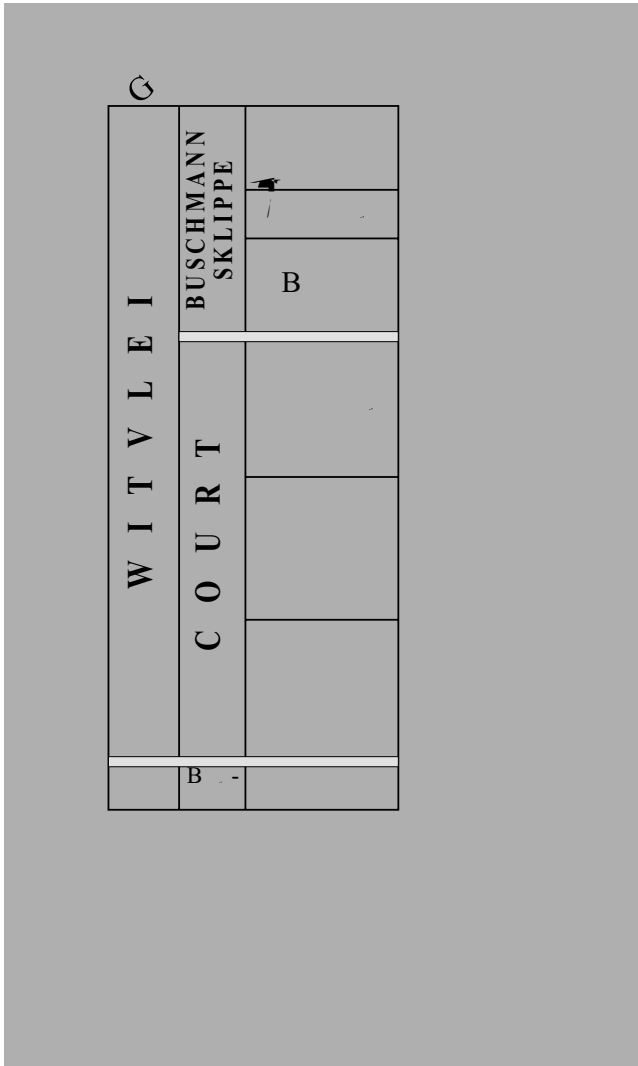
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Abstract

13
+ 1
 δ^{14}
0
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Introduction

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... 5 25 μ ... 50
 1000 μ ...
 10 100 μ ...
 ... 5 40 μ ...

4. Results

$\delta^{34}S_{sulfate}$... +1.1‰ ... +1.1‰
 $\delta^{13}C$ 22

$\delta^{34}S_{sulfate}$... -5.2‰ ... -2.2‰ ... -3.‰
 $\delta^{13}C$ 5‰2 ...

5. Discussion

5.1. Controls on seawater $\delta^{34}S_{sulfate}$

$\delta^{34}S_{sulfate}$... ~+‰ ... ~+3‰
 ... 1 2, ... 1 5.

5.2. Fractionation of sulfur isotopes

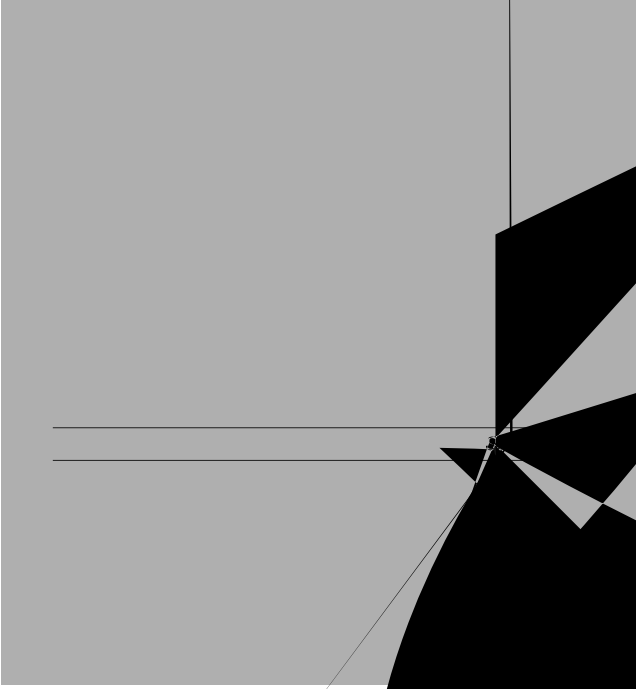
... 1 4. ...
 ... 0‰ ... 0‰ ... 50‰
 ... 1 1, ... 1 2.

2.

$$\begin{aligned}
 & \delta^{34} \dots \\
 & \dots \\
 & \dots \\
 & \dots
 \end{aligned}$$

4.

$$\begin{aligned}
 & \dots \\
 & \dots
 \end{aligned}$$



Conclusion

$\delta^{34}S$ = -2.7 ‰ = -3. ‰

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$\delta^{34}S$ = +0.1 ‰

$\delta^{34}S$ = +1.1 ‰

$\delta^{34}S$ = -5.2 ‰

$\delta^{34}S$ = +0 ‰

Re

5 5 5

1 4

4, 05 15

1

4, 1345 1350.

2, 3311

3322.

1 0.

1

3, 450 453.

