



(a) Simulated benthic solute fluxes for Iberian Margin

(b) POC remineralization and percentage remineralized

| POC remineralization rate [$\text{mmol C m}^{-2} \text{d}^{-1}$] | |
|--|-----------|
| RADIV2 (< 400 m) | 3.99–6.93 |
| Iberian margin ^[a] (< 400 m) | 0.2–0.65 |
| RADIV2 (> 400 m) | 1.86–4.18 |
| Iberian margin ^[a] (> 400 m) | 0.04–0.45 |

| Percentage remineralized [%] | |
|---|-------|
| < 400 m | |
| RADIV2, aerobic | 54–93 |
| Iberian margin ^[a] , aerobic | 37–88 |
| RADIV2, SO ₄ reduction | 3–41 |
| Iberian margin ^[a] , anaerobic | 10–60 |
| > 400 m | |
| RADIV2, aerobic | 69–97 |
| Iberian margin ^[a] , aerobic | 30–98 |
| RADIV2, SO ₄ reduction | 6–22 |
| Iberian margin ^[a] , anaerobic | 0–65 |