

Station	Water column section	Cross-shelf mass transport (Tg C d <sup>-1</sup> )	Excess carbon transport (Tg C d <sup>-1</sup> )
434	top 10 m	$9.0 \pm 2 \times 10^{-3}$	$17 \pm 4 \times 10^{-5}$
	10–45 m	$-14 \pm 3 \times 10^{-3}$	
432	top 10 m	$14 \pm 3 \times 10^{-3}$	$7.1 \pm 3 \times 10^{-5}$
	10–61 m	$-3.0 \pm 3 \times 10^{-3}$	
428	top 10 m	$0.1 \pm 1 \times 10^{-3}$	$45 \pm 23 \times 10^{-5}$
	10–72 m	$-65 \pm 15 \times 10^{-3}$	