

Supplementary material

Forest stream biota carbon : nitrogen ratios are unaffected by nutrient subsidies from breeding Westland petrels (*Procellaria westlandica*)

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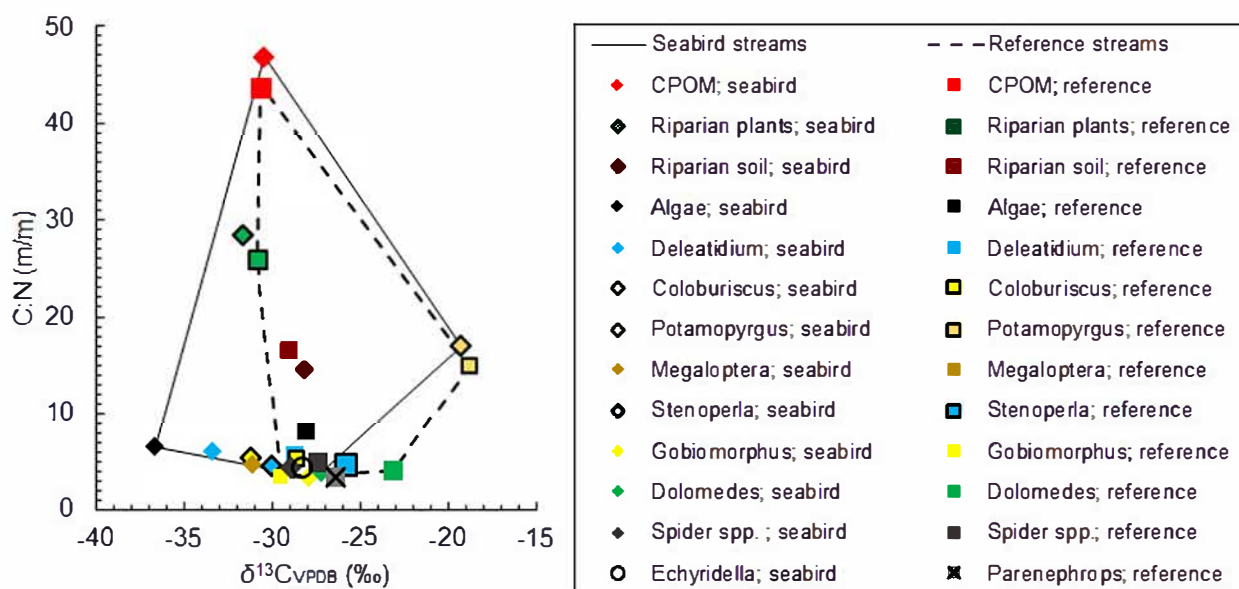


Fig. S1. $\delta^{13}C$ and C : N convex hulls for seabird and reference streams, based on mean values of stream elements.

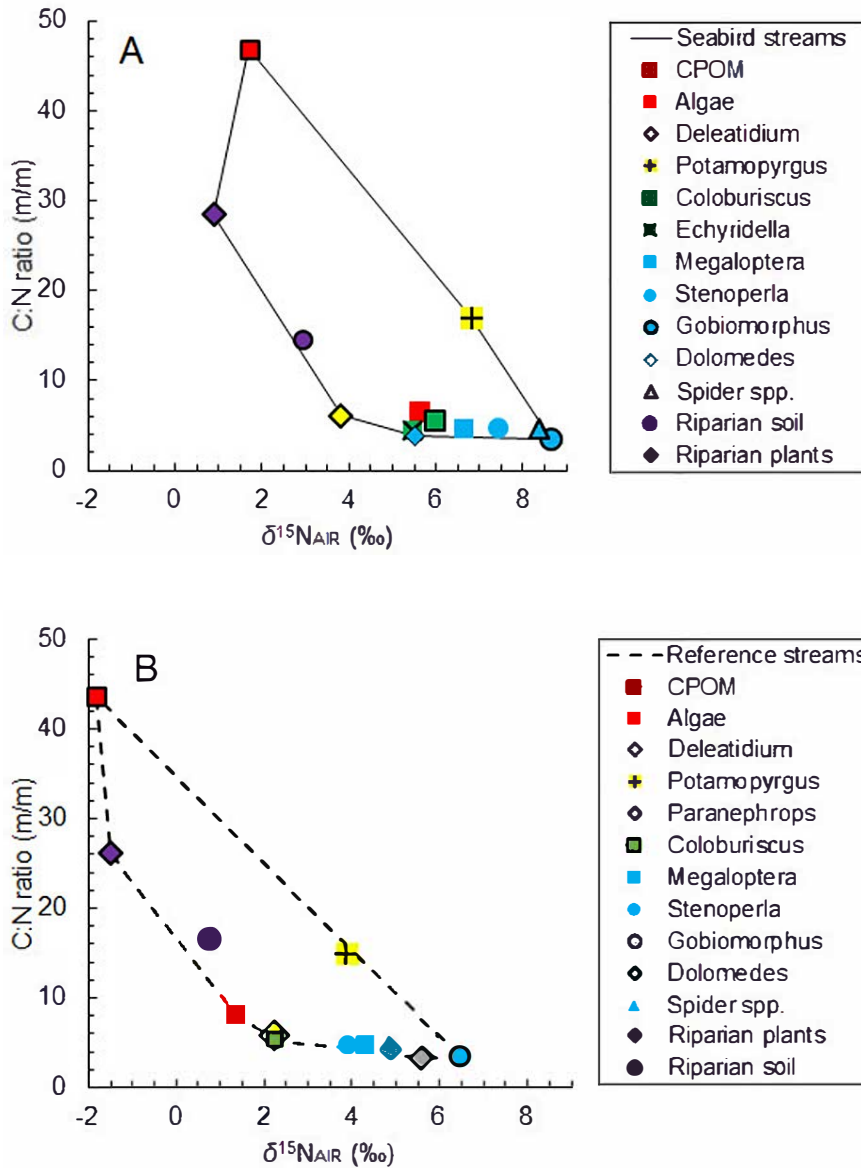


Fig. S2. Bi-plot of $\delta^{15}\text{N}$ and C : N and associated convex hulls for seabird (A) and reference streams (B), focusing on the individual ecosystem components clustered at low C:N ratio. Red symbols, ecosystem components at the base of the stream food web; yellow symbols, collector–browsers; green symbols, filter feeders; blue symbols, predators; grey symbols, shredders; purple symbols, riparian source materials.

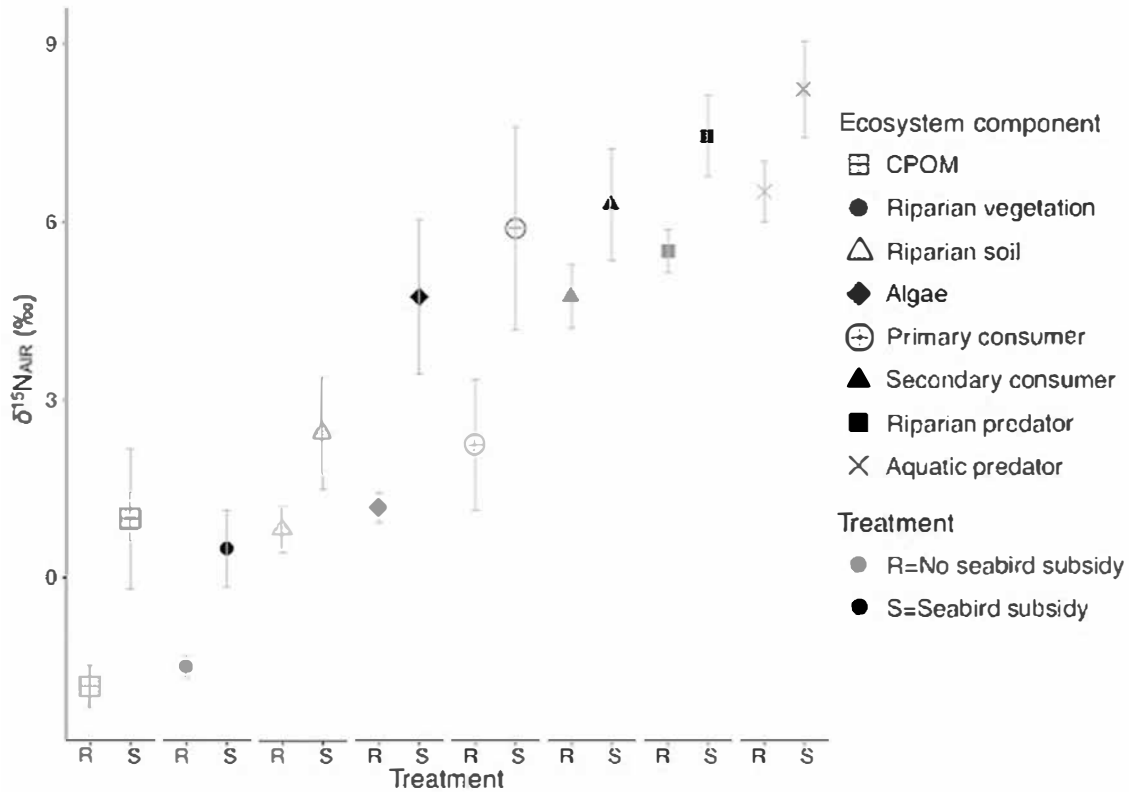


Fig. S3. Plot of mean $\delta^{15}\text{N}$ (\pm standard error) against treatment for ecosystem components in West Coast streams. Soil, riparian top-soil; CPOM, in stream coarse particulate organic matter; primary consumer, mayfly *Deleatidium* spp.; secondary consumer, Megaloptera *Archichauliodes diversus*; top predator, redbfin bullies *Gobiomorphus huttoni*; riparian predator, spider *Dolomedes* spp.

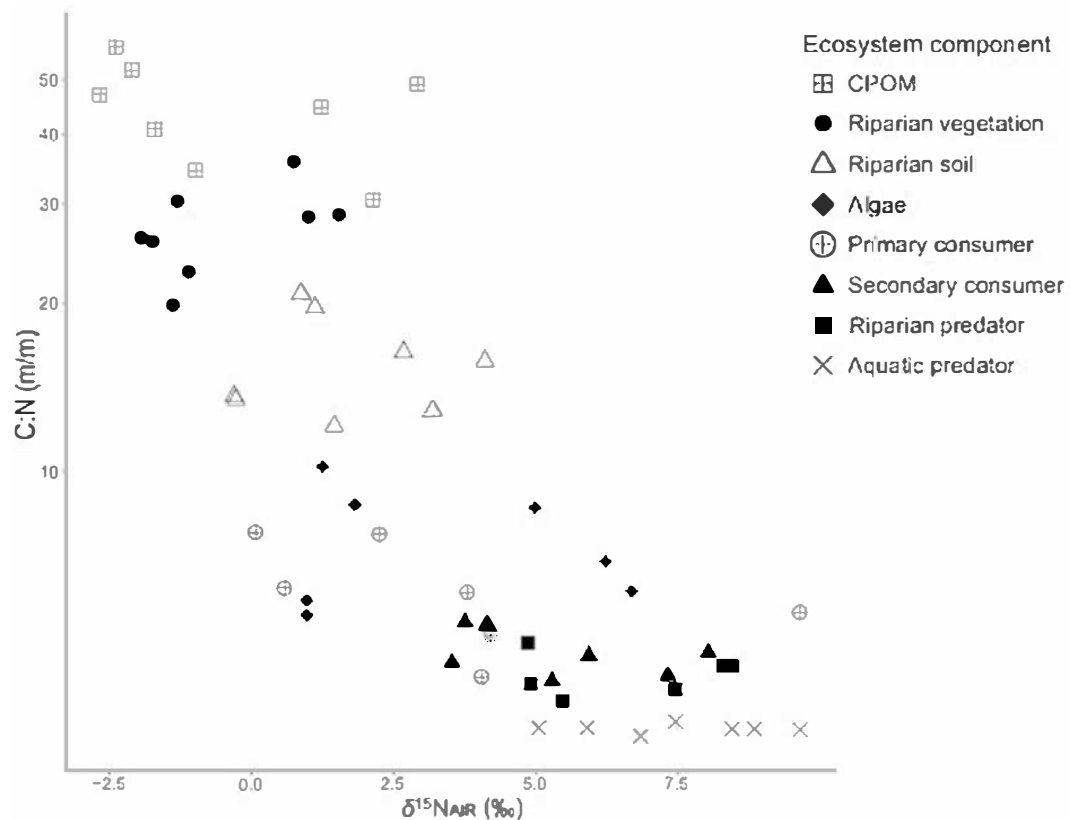


Fig. S4. Plot of log C : N against $\delta^{15}\text{N}$ for all eight seabird and reference streams. Soil, riparian top-soil; CPOM, in stream coarse particulate organic matter; primary consumer, mayfly *Deleatidium* spp.; secondary consumer, Megaloptera *Archichauliodes diversus*; top predator, redbfin bully *Gobiomorphus huttoni*; riparian predator, spider *Dolomedes* spp.