

richness Macintyre abundance taxon abundance full lower perch fish European sediment groups different plant development Billabong increase 49:431 Chilcott study Goulburn including Murrumbidgee evenness **billabongs** Chara macrofossil communities clear Evenness contrast biodiversity species benthic evenness **Felbriggs** submerged century assemblages patterns lakes cores plants plants studies increases mid case rivers values **changes** Reid work less large number food using likely **macrophyte** Potamogeton chironomid analysis also personal periods record cladocerans loss **community** Diatom Ogden sites billabong two aquatic **change** Hogan response decline around Shannon post-European **diatom** Lake Pungbougal across **community** Iona declines due long-term impacts **Richness** Davidson Richness Paleolimnol responses Sayer total **Macintyre** Murray following marked turnover data MDB Australia Callemondah core copy declined period **Downs** Fig multi-proxy may based habitat biological measures time **Richness** **changes** **macrophyte** **community** **diatom**