

QUALIFICATIONS

BA (Biology, Business minor) Drake University, 1991

MS (Oceanography/Coastal Zone Management)
Florida Institute of Technology, 1996

PhD (Biology) University of South Florida, 2003

NOAA Coastal Management Fellow, 1996-1998

Post-doctoral Fellow, Otago University, 2003-2005

PROFESSIONAL AFFILIATIONS

NZ Marine Sciences Society

American Society of Limnology and Oceanography

ROLE AT CAWTHRON

Chris is a marine scientist within coastal and freshwater resources. Chris's primary area of expertise is in estuarine and coastal processes and the interaction between the physical environment and biological systems.

SPECIAL INTERESTS

- Nutrient dynamics and water quality in coastal and estuarine systems
- Benthic ecology and monitoring
- Source tracking land-derived contaminants in the coastal environment
- Integrated catchment management
- Application of stable isotopes in ecological studies

PUBLICATIONS

Cornelisen, C.D. and F.I.M. Thomas. 2009. Prediction and validation of flow-dependent uptake of ammonium over a seagrass-hardbottom community in Florida Bay. *Marine Ecology Progress Series*, 386: 71-81.

Lamare, M.D., Channon, T., **Cornelisen, C.D.** and M. Clarke. 2009. Archival electronic tagging of a predatory sea star – Testing a new technique to study movement at the individual level. *Journal of Experimental Marine Biology and Ecology*. 373: 1-10.

Cornelisen, C.D., S.R. Wing, K.L. Clark, M.H. Bowman, R.D. Frew and C.L. Hurd (2007). Patterns of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ signatures in *Ulva pertusa*: Interaction between physical gradients and nutrient source pools. *Limnology & Oceanography*, 52: 820-832.



Wing SR, Leichter J, Perrin C, Rutger S.M., Bowman M.H., **Cornelisen, C.D.** 2007. Topographic shading and wave exposure influence morphology and ecophysiology of *Ecklonia radiata* in Fiordland, New Zealand. *Limnology & Oceanography* 52: 1853-1864.

Forrest, B.M., P.A. Gillespie, **C.D. Cornelisen** and K.M. Rodgers. 2007. Multiple indicators reveal river plume influence on sediments and benthos in a New Zealand coastal embayment. *New Zealand Journal of Marine and Freshwater Research*, 41: 13-24.

Cornelisen, C.D. and F.I.M. Thomas. 2006. Water flow enhances ammonium and nitrate uptake in a seagrass community. *Marine Ecology Progress Series*, 312: 1-13.

Cornelisen, C.D. and F.I.M. Thomas. 2004. Ammonium and nitrate uptake by leaves of the seagrass *Thalassia testudinum*: impact of hydrodynamic regime and epiphyte cover on uptake rates. *Journal of Marine Systems*, 49: 177-194.

Thomas, F.I.M. and **C.D. Cornelisen**. 2003. Ammonium uptake by seagrass communities: Effects of oscillatory vs. unidirectional flow. *Marine Ecology Progress Series*, 247: 51-57

Cornelisen, C.D. and F.I.M. Thomas. 2002. Ammonium uptake by seagrass epiphytes: Isolation of the effects of water velocity using an isotope label. *Limnology & Oceanography*, 47: 1223-1229.

Thomas, F.I.M., **C.D. Cornelisen** and J.M. Zande. 2000. Effects of water velocity and canopy morphology on ammonium uptake by seagrass communities. *Ecology*, 81: 2704-2713.

Cornelisen, C.D. 1998. Restoration of Coastal Habitats and Species in the Gulf of Maine. Gulf of Maine Council on the Marine Environment. Boston, Massachusetts. 210 p.