

## Seaweed Unit Publications (chronological order) on current and potential commercial species

### Primary research publications

Bolton, J.J. & R.J. Anderson (1985). The *Ecklonia* species of southern Africa; variation, distribution and temperature tolerances. Brit. Phycol. J. 20: 182.

Carter, A.R. & R.J. Anderson (1985). Regrowth after experimental harvesting of the agarophyte *Gelidium pristoides* (Rhodophyta) in the Eastern Cape Province. S. Afr. J. Mar. Sci. 3: 111-118.

Anderson, R.J. & C.H. Hay (1986). Seasonal production of *Desmarestia firma* (C.Ag.) Skottsb. (Phaeophyceae, Desmarestiales) in a kelp bed in the west coast of the Cape Peninsula, South Africa. Bot Mar. 29: 523-531.

Carter, A.R. & R. J. Anderson (1986). Seasonal growth and agar contents in *Gelidium pristoides* (Gelidiales, Rhodophyta) from Port Alfred, South Africa. Bot. Mar. 29: 117-123.

Bolton, J.J. & R.J. Anderson (1987). Temperature tolerances of two southern African *Ecklonia* species (Alariaceae, Laminariales) and of hybrids between them. Mar. Biol. 96: 293-297.

Anderson, R.J., Simons, R.H. & N.G. Jarman (1989). Commercial seaweeds in southern Africa: utilization and research. S. Afr. J. Mar. Sci. 8: 277-299.

Anderson, R. J., Simons, R. H., Jarman, N. G. and G. J. Levitt. (1991). *Gelidium pristoides* in South Africa. Hydrobiologia 221: 55-66.

Carter, A. R. and R. J. Anderson. (1991). Biological and physical factors controlling the spatial distribution of the intertidal alga *Gelidium pristoides* in the Eastern Cape, South Africa. J. mar. biol. Ass. U.K. 71: 555-568.

Levitt, G. J., Anderson, R. J., Jarman, N. G. and R. H. Simons. (1992). Past, present and future utilization of South African Laminariales. Proceedings of the First International Workshop on Sustainable Seaweed Resource Development in Sub-Saharan Africa. Eds: Mshigeni, Bolton, Critchley and Kiangi. Publ. by K. E. Mshigeni, Windhoek. Pps 171-187.

Anderson, R. J., Levitt, G. J. Keats, D. W. and R.H Simons. 1993. The role of herbivores in the collapse of the *Gracilaria* resource at Saldanha Bay, South Africa. Hydrobiologia 260/261: 285-290.

Levitt, G.J., J.J. Bolton and R.J. Anderson. 1995. Potential harvestable biomass of four carrageenan-producing seaweeds of the south-western Cape, South Africa. S. Afr. J. mar. Sci. 15:49-60.

Anderson, R.J, Monteiro, P.M.S. and G.J. Levitt. 1996. The effect of localised eutrophication on competition between *Ulva lactuca* (Ulvaceae, Chlorophyta) and a commercial resource of *Gracilaria verrucosa* (Gracilariaceae, Rhodophyta). Hydrobiologia 326/327: 291-296.

Anderson, R.J., Carrick, P., Levitt, G.J. and A. Share. 1997. Holdfasts of adult kelp (*Ecklonia maxima*) provide refuges from grazing for recruitment of juvenile kelps. Mar. Ecol. Prog. Ser. 159: 265-273.

Monteiro. P.M.S., Anderson, R.J. and S. Woodbourne. 1997. Coastal eutrophication:  $\delta^{15}\text{N}$  as a tool to quantify the relative magnitudes of natural and fish-waste derived nitrogen to an *Ulva* bloom. *S. Afr. J. mar. Sci.* 18: 1-9.

Griffin, N.J., Bolton, J.J. and R.J. Anderson. 1999. The effects of a simulated harvest on *Porphyra* (Bangiales, Rhodophyta) in South Africa. *Hydrobiologia* 398/399: 183-189.

Griffin, N. J., Bolton, J. J. and R. J. Anderson 1999. Distribution and population dynamics of *Porphyra* (Bangiales, Rhodophyta) in the southern Western Cape, South Africa. *J. appl. Phycol.* 11: 429-436.

Sampson, MR, PJ Britz, AR Booth, and RJ Anderson, 2001. A comparison of manual and GIS methods to estimate kelp biomass on the Northern Cape coast of South Africa. In Nishida, T, PJ Kailola and CE Hollingworth (Eds), *Proceedings of the First International Symposium on Geographic Information Systems (GIS) in Fishery Science* (Seattle, March 1999), Fishery GIS Research Group, Saitama, Japan, pp. 157-166.

Levitt, G.J, Anderson, R.J., Boothroyd, C.J.T. and F.A. Kemp 2002. The effects of kelp harvesting on kelp biomass, density, recruitment, and understory community structure at Danger Point (Gansbaai) South Africa. *S. Afr. J. Mar Sci.* 24: 71-85.

Anderson, R.J., JJ Bolton, FJ Molloy and KW Rotmann 2003. Commercial seaweeds in southern Africa. *Proc. 17<sup>th</sup> International Seaweed Symposium*, Oxford University Press. pp.1-12.

Tronchin, E., RJ Anderson and JJ Bolton 2003. A socio-ecological investigation of the *Gelidium* (Gelidiales, Rhodophyta) industry in the Eastern Cape Province, South Africa. *Proc. 17<sup>th</sup> International Seaweed Symposium*, Oxford University Press, pp. 115-121.

Anderson, R. J., M. D. Rothman, A. Share and H. Drummond. 2006. Harvesting of the kelp *Ecklonia maxima* in South Africa affects its three obligate, red algal epiphytes. *J. Appl. Phycol.* 18:343-349.

Rothman, M. D., R. J. Anderson and A. J. Smit. 2006. The effects of harvesting of the South African kelp (*Ecklonia maxima*) on kelp population structure, growth rate and recruitment. *J. Appl. Phycol.* 18: 335-341.

Troell, M., D Robertson-Andersson, RJ Anderson, JJ Bolton, G Maneveldt, C, Halling and T Probyn. 2006. Abalone farming in South Africa: An overview with perspectives on kelp resources, abalone feed, potential for on-farm seaweed production and socio-economic importance. *Aquaculture* 257: 266-281.

Anderson, R. J., Rand, A., Rothman, M. D. and J. J. Bolton 2007. Mapping and quantifying the South African kelp resource. *Afr. J. Mar. Sci.* 29 (3): 369-378.

Rothman MD, Anderson RJ, Boothroyd CJT, Kemp FA and Bolton JJ. 2009. The Gracilarioids in South Africa: long-term monitoring of a declining resource. *Journal of Applied Phycology* 21: 47-53.

Rothman, MD, Anderson, RJ, Bolton, JJ, Boothroyd, CJT and FA Kemp (2010). A simple method for rapid estimation of *Ecklonia maxima* and *Laminaria pallida* biomass using floating surface quadrats. *African Journal of Marine Science* 32(1): 137–143

### **Book chapters: resource research**

Anderson, R.J. 1994. *Subria* (Gelidiaceae, Rhodophyta). In: The Biology of Economic Algae. I. Akatsuka (Ed.). SPB Academic Publishing, The Hague, Netherlands, pp. 345-352.

Anderson, R.J. 1994. *Gymnogongrus* (Phylloporaceae, Gigartinales). In: The Biology of Economic Algae. I. Akatsuka (Ed.). SPB Academic Publishing, The Hague, Netherlands, pp. 227-244.

Bolton, J. J. and R. J. Anderson. 1994. *Ecklonia*. In: The Biology of Economic Algae. I. Akatsuka (Ed.). SPB Academic Publishing, The Hague, Netherlands, pp. 385-406.

Share, A., Anderson, R.J., Bolton, J.J., McQueen, C. and G. Freese. 1996. South African seaweed resources: Towards the development of an appropriate management policy. Current Trends in Marine Botanical research in the East African Region (Proceedings of Symposium on the Biology of Microalgae, Macroalgae and Seagrasses in the Western Indian Ocean, University of Mauritius, December 1995) pp. 175-185. Eds M. Bjork, A.K. Semesi, M. Pedersen and B. Bergmann. Publ. by Marine Science Program, SAREC.

### **Popular-press articles: resource research**

Anderson R.J. & N.G. Jarman (1987). Kelp forests. Underwater 5: 28-29.

Bolton, J.J. & R. J. Anderson (1989). Agar from southern African seaweeds. Sagittarius 4: 25-27.

Anderson, R. J. (1991). Harvesting seaweed. Veld and Flora 77:76-77.

Anderson, R.J. (1993). Seaweed - a small but healthy resource. Earthyear 6: 44-45.

Bolton, JJ and RJ Anderson (2000). Seaweeds: science and technology for sustainable industry. Veld and Flora 86: 188.