

ABSTRACT

M.J. ROBERTS, DU TOIT, P. and W.H.H. SAUER (1994)

**Environmental impact on the development and survival of chokka squid eggs
(*Loligo vulgaris raynaudii*)**

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Catch statistics for the South African chokka squid fishery show a high degree of variability on both a monthly and annual basis. There are strong indications that this is caused by environmental factors affecting both the early stages of the life cycle and the behaviour of adults during spawning.

This paper investigates the effect of the ocean environment on the development and survival of eggs by comparing experimental data collected from both controlled laboratory and in-situ trials. This is compared with observed seasonal environmental trends on known spawning grounds to assess the potential for recruitment failures.