Retracted as per the suggestion of authors and reviewers

Distribution patterns of spawning stock of hake maturity stages in the Benguela ecosystem of Namibia

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ABSTRACT:

Distribution of maturity stages opulations of M. capensis and M. paradoxus were investigated along he Name coast between 17 - 28°S latitudes and within 100 m to 600 wa er d pths. Sampling was conducted in summer, during the period of January-1 bruary 2012 with a bottom trawl on board the MFV Blue Sea research vessel. A total of 217 stations along the coast were sampled targeting the two set the distribution of active rtag ake. Results indicated significant differences in of M. capensis and in the ripe and running, ripe and inactive stag s for par lokus with regard to latitude. Whilst for depths significant re of cobserved in ripe, ripe and running maturity stages for M. capens, and the mactive stage for M. paradoxus. Maturity stages distribution tweet the two species differs significantly in the active stage with regard to latitude Ive and inactive stages with regard to depth. There exists fluctuation in stages of the two hake species and this can be due to feeding behavior, patial distribution and differences in spawning locations.

Keywords:

Benguela ecosystem, maturity distribution, hake species, maturity stages.

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ABSTRACT:

Distribution of maturity stages within hopulations of *M. capensis* and *M. paradoxus* were investigated along the Name of coast between 17 – 28°S latitudes and within 100 m to 600 h water depths. Sampling was conducted in summer, during the period of landary-hobruary 2012 with a bottom trawl on board the MFV Blue Sea research wasel. A total of 217 stations along the coast were sampled targeting the two section of lake. Results indicated significant differences in the distribution of active rtag of *M. capensis* and in the ripe and running, ripe and inactive stages for the paradoxus with regard to latitude. Whilst for depths significant differences wase only observed in ripe, ripe and running maturity stages for *M. capens*, and the inactive stage for *M. paradoxus*. Maturity stages distribution at twee the two species differs significantly in the active stage with regard to latitude and in the cave and inactive stages with regard to depth. There exists fluctuation in maturity stages of the two hake species and this can be due to feeding behavior, spatial distribution and differences in spawning locations.

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