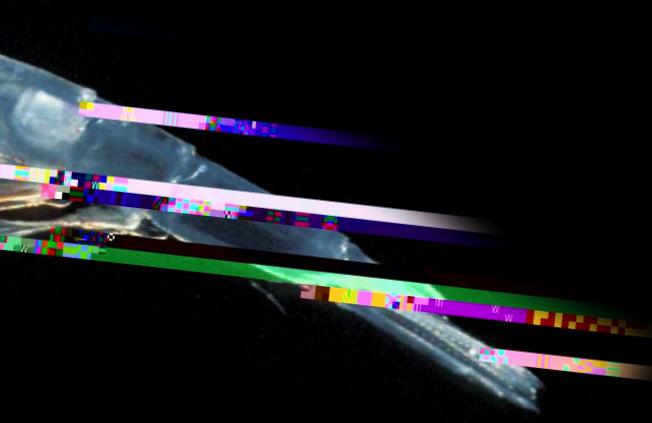


## CITATION

# Climate Impacts on Zooplankton Population Dynamics in Coastal Marine Ecosystems

BY HAROLD P. BATCHELDER, KENDRA L. DALY, CABELL S. DAVIS, RUBAO JI,  
MARK D. OHMAN, WILLIAM T. PETERSON, AND JEFFREY A. RUNGE



## ABSTRACT • 20-02 GL BEC(G + E + D + i.)

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This study aims to analyze the relationship between the variables of gender (G), ethnicity (E), and education level (D) and the dependent variable of income (i.). The research uses a quantitative approach with a cross-sectional design. The sample consists of 200 respondents from various socio-economic backgrounds. The data collection process involved a questionnaire survey. The results show that there is a significant positive correlation between gender, ethnicity, and education level and income. The regression analysis indicates that the model explains approximately 60% of the variance in income. The coefficient of determination (R-squared) is 0.60. The adjusted R-squared is 0.58. The F-statistic is 12.34, and the p-value is 0.000. The t-statistic for gender is 2.56, ethnicity is 1.89, and education level is 3.21. The p-values for these variables are 0.012, 0.065, and 0.001 respectively. The intercept has a t-statistic of 4.56 and a p-value of 0.000. The overall model is statistically significant at the 0.05 level. The results suggest that gender, ethnicity, and education level have a significant impact on income. The findings support the hypothesis that there is a positive relationship between these variables and income.

## INTRODUCTION

GL BEC(G + E + D + i.).  
The study of the relationship between gender, ethnicity, and education level and income has been a topic of interest in recent years. This research aims to contribute to the existing literature by providing empirical evidence on the factors that influence income. The study uses a quantitative approach with a cross-sectional design. The sample consists of 200 respondents from various socio-economic backgrounds. The data collection process involved a questionnaire survey. The results show that there is a significant positive correlation between gender, ethnicity, and education level and income. The regression analysis indicates that the model explains approximately 60% of the variance in income. The coefficient of determination (R-squared) is 0.60. The adjusted R-squared is 0.58. The F-statistic is 12.34, and the p-value is 0.000. The t-statistic for gender is 2.56, ethnicity is 1.89, and education level is 3.21. The p-values for these variables are 0.012, 0.065, and 0.001 respectively. The intercept has a t-statistic of 4.56 and a p-value of 0.000. The overall model is statistically significant at the 0.05 level. The results suggest that gender, ethnicity, and education level have a significant impact on income. The findings support the hypothesis that there is a positive relationship between these variables and income.



## MORTALITY CAUSES AND UNCERTAINTY

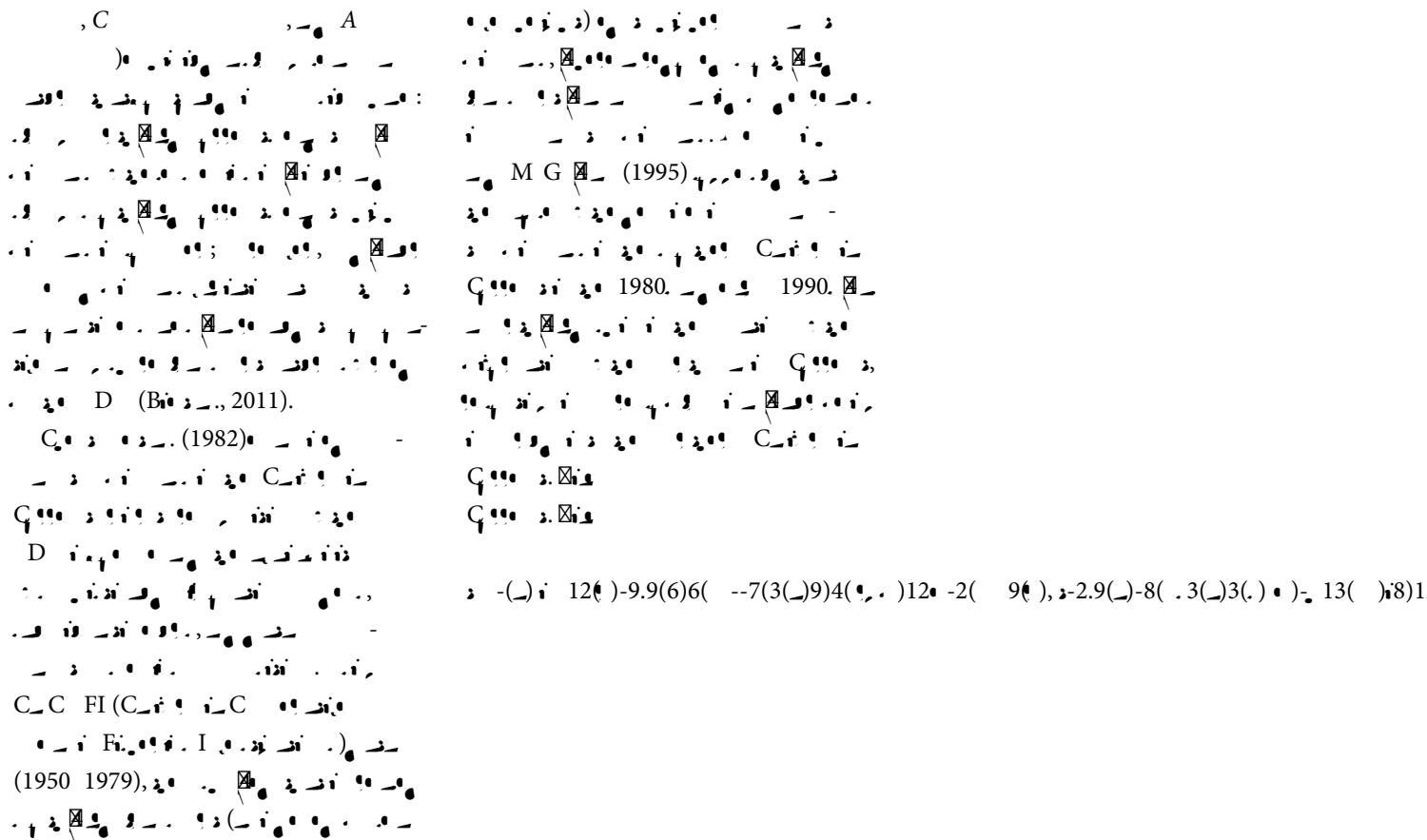
(Liu et al., 2006). A similar study was conducted by Liu et al. (1997) and Eshel et al. (2002) in China.







( $\geq 5$ , 2007). نتائج دراسة تأثير تطبيق معايير الـ ASME M. على إنتاج المكونات المعدنية في المصانع الكبيرة في مصر، (2009). مصطفى، هشام، (2009).



湖水的冰封期，水温较低，浮游生物生长缓慢，营养物质积累不足，导致春季浮游生物繁殖量较小。因此，冬季的冰封期对浮游生物的生长和繁殖具有重要影响。

## THE IMPORTANCE OF WINTER CONDITIONS TO ZOOPLANKTON DYNAMICS

冬季的冰封期对GL BEC的生长和繁殖具有重要影响。冰封期的长短和强度会影响水温、光照和营养物质的供应，从而影响浮游生物的生长和繁殖。冰封期的长短和强度与浮游生物的生长和繁殖密切相关。冰封期较长的年份，浮游生物的生长和繁殖受到严重影响，导致春季浮游生物繁殖量较小。因此，冬季的冰封期对浮游生物的生长和繁殖具有重要影响。

冰封期的长短和强度与浮游生物的生长和繁殖密切相关。冰封期较长的年份，浮游生物的生长和繁殖受到严重影响，导致春季浮游生物繁殖量较小。因此，冬季的冰封期对浮游生物的生长和繁殖具有重要影响。





وَمِنْ أَنْتَ مَلِكُ الْأَرْضِ إِنَّكَ أَنْتَ الْعَزِيزُ  
وَإِنَّكَ أَنْتَ الْحَسِيرُ

B. H. B. 1926.  
D. C.



- 33:1,666 1,678,  
 10.1093/.../073.  
 Li, J., J.K.B., B., F.E., J., D.M., J., J.,  
 S.D., M.J.F., 2002. M...  
 A 59:1,429 1,440,  
 /10.1139/02-115.  
 Li, H., M.J.D., 2005. G...  
 G 27:647 662, /10.1093/  
 039.  
 Li, H., H., H., 2007. A...  
 C 29:569 581, /10.1093/  
 039.  
 Li, H., H., H., 2008. G...  
 G 30:923 935, /10.1093/  
 046.  
 Li, H., H., H., 2010. A...  
 A 19:354 369, /10.1111/  
 .1365-2419.2010.00550..  
 L., E.A., M., L., C., A., 2003. S...  
 12:554 568, /10.1046/.../2003.00238..  
 M., J., H., J., J.M., C., R., 1997. A...  
 B 78:1,069 1,079, /10.1175/1520-0477(1997)078<1069:A IC  
 2.0.C ;2.  
 M., F., J.A., A., A., A.J., J.J., 2012.  
 M., J., H., C., A...  
 A 34:36 54, /10.1093/  
 088.  
 M., M., K.L.D., C.H., 2008. A...  
 F 55:377 392, /10.1016/  
 .2.2007.11.011.  
 M., M., K.L.D., A., 2011.  
 M., B., A...  
 A 58:1,599 1,613,  
 /10.1016/.../2.2010.12.007.  
 M., M., K.L.D., A., 2011.  
 M., B., A...  
 A 53:1,643 1,655,  
 /10.4319/.../2008.53.4.1643.  
 M.D., K.E., E.G.D., J.A., H.-J.H., 2004. A...  
 C 58:1,614 1,629, /10.1016/  
 .2.2010.12.006.  
 M.E., C.I., A(M), E., C., C., A...  
 C 2012: /10.1016/.../2012.64.  
 M., C.B., D., L., F.C., C.G., C.,  
 C., 1998.  
 C 7:219 234, /10.1046/.../1365-2419.1998.00072..  
 M., K.E., A.J., C.J.B., C., F., C., D., H.,  
 J.A., J.C., A.C., 2013. F...  
 2012: /10.1016/.../2013.27.  
 M., J.H., D.A.B., A.D.G., K., M., J.H.H.,  
 2005. E...  
 A 134:1,313 1,322,  
 /10.1577/.../05-054.1.  
 M., D., B., J., 2003.  
 D... 1995: /10.3354/  
 263247.  
 M., D., J., G., J., D., J., 2008. G...  
 G 1995: 1999.  
 353:225 242, /10.3354/  
 .07176.  
 M., D.G., J.K., 2010. M...  
 G 1980: 1990.  
 398:81 91, /10.3354/  
 .08323.  
 J.M., H., C., B., C., C., 2005. D...  
 G 27:415 426, /10.1093/  
 .015.  
 M., M.E., C., D., M., M.G., 1996. D...  
 G 43:1,905 1,924, /10.1016/  
 .0967-0645(96)00046-  
 ., M.D., E.G.D., J.A., B.K., D.B.F., 2008.  
 C 53:1,643 1,655,  
 /10.4319/.../2008.53.4.1643.

- A.I., K. C. H. 2008. C. 77:203-216. <http://doi.org/10.1016/j.jastab.2008.03.012>.
- A.I., K. C. H. 2006. E. 332:206-215. <http://doi.org/10.1016/j.jastab.2005.11.019>.
- A.I., K. C. H. 2007. E. 151:257-269. <http://doi.org/10.1007/s00227-006-0483-1>.
- A.E.H., A. E.E. H., K.L.D., M. D., J.M. K. 2013. M. 481:69-92. <http://doi.org/10.3354/cbdj10256>.
- D.C., S. M. D. B. 2005. C. 52:29-50. <http://doi.org/10.1016/j.jastab.2004.09.027>.
- H., D.B. 2005. .D. .M. .A. .J.A. B. 2005. C. 2000. D. 52:89-108, <http://doi.org/10.1016/j.jastab.2004.09.032>.
- G., G. B. 2011. E. C. B. 17:756-766. <http://doi.org/10.1111/j.1365-2486.2010.02310.x>.
- D., J. M. G. 1995. C. 267:1,324-1,326. <http://doi.org/10.1126/science.267.5202.1324>.
1998. C. 395-414; A. K.H. B. J. 2000. C. 267:1,324-1,326. <http://doi.org/10.1126/science.267.5202.1324>.
- J.A., J. J. B. 2000.