Cheng, Ang Keng. 2001. Teaching mathematical modelling in Singapore schools. *The Mathematics Educator*. 6(1): 63-75. Published by Association of Mathematics Educators.

See https://repository.nie.edu.sg//handle/10497/49 . Accessed 27 March 2023.

From Introduction, "The purpose of this paper is to examine the possibility of introducing the teaching of mathematical modelling to the secondary school curriculum in Singapore. As well, the benefits of teaching and learning mathematical modelling are discussed. Examples to illustrate the process of mathematical modelling using only basic mathematical ideas and concepts are presented. These serve to illustrate that school mathematics can be used to provide experiences of the process of mathematical modelling in the classroom. Some implications on the teaching and learning of mathematics using such an approach are examined and discussed."

Of interest to us is the attempt to model a Barnacle Goose population using the logistic model. Data is given in a plot, and the source of the data is this article:

Armson, R., J. M. Cockroft, and J. A. R. Stone. 2000. Modelling a barnacle goose population. *Teaching Mathematics and Its Applications*. 19(2): 74-82.

See https://academic.oup.com/teamat/article-abstract/19/2/74/1672707?redirectedFrom=fulltext .

KEYWORDS: modelling, teaching, barnacle goose, population, differential equation, logistic, data