

# THE CAMBRIDGE STATISTICS DISCUSSION GROUP

**Thursday 8th March 2001 7:15 for 7:45**

The Large Seminar Room, Institute of Public Health,  
University Forvie Site, Robinson Way, Cambridge

## **How Many Krill Are in the Sea?**

**Alistair Murray**

British Antarctic Survey,  
Cambridge

**Abstract:** Antarctic krill (small shrimp-like zooplankton) are the keystone of the Southern Ocean food web. Directly grazing on microscopic plants (phytoplankton), krill in turn are preyed on by fish, penguins, seabirds, seals, whales - and fishermen. The krill fishery is regulated by an international treaty that aims to balance the competing demands of man and wildlife and so maintain the integrity of the whole ecosystem. Rational resource management requires good stock estimates on which to base decisions. The talk presents aspects of design and analysis of krill surveys which provide these estimates.

**Speaker:** Alistair Murray graduated in Applied Biology from Cambridge in 1976. He went on to do research on variety trials of carrots and onions in collaboration with NIAB (1976-81) which changed his primary interest to experimental design and analysis. In 1981 he joined the Statistics Department at Rothamsted Experimental Station as consultant to the Agricultural Advisory and Development Service, working mostly on cereal nitrogen response trials. From 1986 till present, he has been the biometrical consultant for the Marine Life Science Division of the British Antarctic Survey.

**Directions:** (From Central Cambridge) Turn right off Hills Road into the Addenbrooke's site then turn left at the hospital roundabout onto Robinson Way. Follow Robinson Way until you see an access road on the left signed 'Forvie Site' (but note that the sign is on your right). Turn into the access road and follow signs - first to the Institute and then to the Large Seminar Room. There is ample car parking. The front doors will be locked at 7:45.

**Provisional Next Meetings: (Please note change of May speaker)**

5th April – Judith Quinlan (SmithKline Beecham) on 'Studying an Alzheimer Population'.

10th May – Margaret Ely (Anglia Polytechnic University).

10th October – Simon Thompson (MRC Biostatistics).

**Supper:** Some members eat regularly in the University Centre before each meeting at 6-15. Feel free to join them.

**Subscriptions:** of 4 pounds per member are now due for the 2000-2001 session. Cheques should be made payable to Robert Milroy and may be posted to the secretary at the address below.

**Secretary:** Peter Watson, MRC Cognition and Brain Sciences Unit, 15 Chaucer Road, Cambridge CB2 2EF; telephone 01223 355294 Extension 380; E-mail peter.watson@mrc-cbu.cam.ac.uk