

# **Anatomy, Weights and Measurements**

# ANATOMICAL SKETCH OF WILD SWANS

T OHMORI

Symposium participants were presented with copies of a 44-page booklet on this subject, richly illustrated by line drawings. The very quality and abundance of these illustrations make it impossible to reproduce the booklet within the confines of the Proceedings.

The booklet, in both English and Japanese, is split into five sections: bone structure, muscles, internal organs, feathers and sexing. The first four sections are illustrated with a general 'concept picture', as well as further enlarged drawings of details, and many measurements are given.

The section on sexing, as well as giving details of the cloacal method, suggests two techniques that can be used in the field based on general appearance and colour of the culmen. The back parts of the head are rounder and larger in the male than the female, and from the larynx down to the neck look rounder in the male — a character that can be seen well when a family is swimming together. On arrival in autumn bill colour in the two sexes does not differ, but just before departure in spring, the colour of the culmen in the male gets slightly orange.

Copies of the booklet can be obtained from the author.

T OHMORI  
4941 Ara-machi  
Inawashiro-machi  
Fukushima-ken  
Japan

## GENETIC COMPARISON OF *CYGNUS CYGNUS BUCCINATOR* POPULATIONS

E R VYSE and V A BARRETT

### Introduction

The historical range of *Cygnus cygnus buccinator* encompassed a large area of the North American continent, from breeding areas in Alaska to wintering grounds along the Gulf of Mexico (Walker 1968) and east to Hudson's Bay (Alison 1975).