

研究报告

三种鹭异步孵化与雏鸟生长的比较研究

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摘要

根据1996~1999年的野外工作和实验饲养,研究了池鹭、白鹭、夜鹭3种鹭的繁殖、雏鸟生长和异步孵化对雏鸟生长的影响.3种鹭于4月上、中旬迁到常山、余杭鹭保护区,9月下旬陆续迁离.孵卵期池鹭为23.0 d (n =26),白鹭23.9 d (n =32),夜鹭25.3 d (n =34);孵化率池鹭为76.32%,白鹭86.96%,夜鹭95.45%,池鹭繁殖力为3.21只,白鹭3.38只,夜鹭3.50只.雏鸟体重增长与成体体形大小呈负相关.幼雏体重增长与孵化顺序相关.在生长早期(≤8 d)全部雏鸟正常发育,之后差异显著.第1和第2孵化雏鸟生长曲线相似,但明显高于第4雏鸟,表明较早孵化者获得食物能力较强,而迟孵出雏鸟有食物不足现象.该3种鹭繁育幼雏能力的最适度估计为3只左右.

关键词 [异步孵化; 雏鸟生长; 白鹭; 池鹭; 夜鹭](#)

分类号

A comparative study on asynchronous hatching and nestling growth of three heron species

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Abstract

The study on the asynchronous hatching and nestling growth of three heron species (*Ardeola bacchus*,*Egretta garzetta*,*Nycticorax nycticorax*) in laboratory and field at the Changshan and Yuhang heron reserve in Zhejiang Province in 1996~1999 showed that the herons migrated to the reserve in the first and second ten days of April,and left in late September.The average hatching period was 23.0 days for *Ardeola bacchus* ,23.9 days for *Egretta garzetta* ,and 25.3 days for *Nycticorax nycticorax*.*Nycticorax nycticorax* had the highest hatching rate (95.45%),followed by *Egretta garzetta* (86.98%) and *Ardeola bacchus* (76.23%).The hatch ability of *Nycticorax nycticorax* (3.50) was higher than those of *Egretta garzetta* (3.38) and *Ardeola bacchus* (3.21).The increase of nestling weight was negatively related to the adult body size,but positively related to the hatching order.All nestlings developed well at their early growth stage,and then,there existed a significant difference among the nestlings based on the hatching order.The growth curves of the first three nestlings were similar and obviously better than that of the fourth,which indicated that early-hatched nestlings could obtain enough food,while the last one might be short of food.The optimal hatching quantity of the three heron species was assumed to be three offsprings.

Key words

[Asynchrony hatching](#) [Nestling growth](#) [Egretta garzetta](#) [Ardeola bacchus](#) [Nycticorax nycticorax](#)

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