

THE ROLE OF LOCAL WEATHER CONDITIONS ON THE RATE OF BIRD STRIKE INCIDENTS: A CASE STUDY AT ADDIS ABABA AIRPORT, ETHIOPIA

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Abstract

The abundance and species compositions of birds at Addis Ababa Bole International Airport were studied using transect methods. The avian diversity was estimated using Shannon-Weaver diversity index. The rate of bird strike incidents was analyzed in relation to the local weather condition and the species richness of the study area. A total of 53 bird species were identified. High rate of bird strike incidents was observed following the rainy seasons. The dry seasons were relatively safe for aviation.

The current study describes the seasonal variation, species richness and strike incidents at the Addis Ababa Airport. An integrated bird hazard prevention approach that takes local weather conditions into consideration is recommended.