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Climate change impacts on Bali myna (*Leucopsar rothschildi*) during the last decade (case study: West Bali National Park)

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Climate change is affecting birds worldwide. Such impacts have always been prevailing due to rising temperature or unpredictable rainfall that might be too abundant or little and which in turn bring about dire consequences upon the lives of the endemic bird known as Bali Myna (*Leucopsar rothschildi*). In this paper we propose a framework analysis describing the possible patterns of change in the distribution of Bali Myna (*Leucopsar rothschildi*) population based on climate parameters such as temperature, rainfall and humidity in hope to better have an improved quantitative methodology meant to identify and describe these patterns. This study uses a descriptive qualitative method recouring to focus upon sites observation and a deep interviews to be carried out while using SPSS 16 in order to know the variables correlation in hope to determine the plausible significance between them that allow us to analyse the effects of environmental variables on bird species in this study. We tested the proposed methodology using data from the West Bali National Park and the existing data of climate variables over the last decade where climate variables are considered to be significant factors influencing the lives of Bali Myna (*Leucopsar rothschildi*). This study discovers that increases in temperature and precipitation each year have adversely affected the number of Bali Myna (*Leucopsar rothschildi*) population indicating that the bird's survival capacity depends largely much on temperature. Besides, it has been perceived that Bali Myna is very reproductive in rainy season but its fluctuations whether high or low impacts them as well. The distribution mapping show a decline of population in 2006 while an increase was perceived during the last five year period of 2011-2015. Besides, over the same period, a slight increase of 0.4 °C in mean temperature was noticed precisely in Cekik our research site where Bali Myna (*Leucopsar rothschildi*) are.

Biography

Jean Jacques Fanina is a Young Researcher in the field of Environmental Science. He has worked in various tour companies as a Tour Leader specializing in birds of Madagascar during 12 years while focusing on sustainable tourism, performing national, regional and local analysis of Tourism and its potential as a sustainable economic development tool. Previous to this, he used to work as a Translator-Interpreter in International companies. Besides, he has also been teaching English in high schools and universities during the last decade. He is highly motivated, hard-working person, experienced individual, with good interpersonal skills and crosscultural skills. He got many Honor and Awards like in 2016 he was Awarded Second Winner in Indonesian Speech Contest in International Level and 2015 First Winner of Video Competition (Promoting Indonesian Tourism, Culture and Language entitled "Tiga lidah Tida cerita"). He is having certificates like 2017 Certificate as a Climate Reality Leader (Denver, Colorado, USA), 2016 Certificate as a Master of Ceremony in International Conference on Climate Change (University of Sebelas Maret, Surakarta, Indonesia), 2016 Certificate as a Moderator on International Conference on Climate Change (University of Sebelas Maret, Surakarta, Indonesia), 2015 Certificates as a Participant in various International Conferences on Economics, Laws, Tourism, Biology etc.

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