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Flight for Conservation: The birds of Benguet State University Land Reservation

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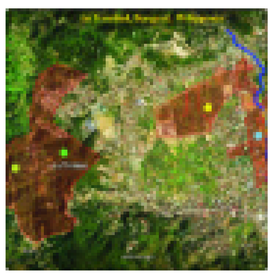
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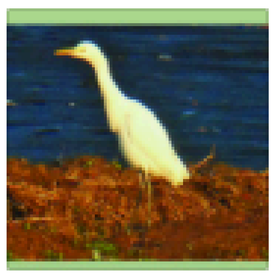
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Abstract and Figures

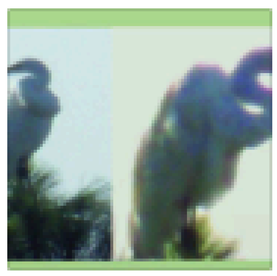
The identification and characterization of birds in land reservations are important basis for institutions in identifying strategies in the promotion of its protection and conservation. The study identified, characterized, and photo-documented birds within the Benguet State University (BSU)-La Trinidad Campus and its land reservations. The common, scientific, and family names of these birds are determined together with its eco-class, conservation status, distribution, characteristics, and food. Forty-six species of birds under 27 families are identified within the campus and its land reservations. Forty-four bird species are found to be indigenous and two are exotic. Fifteen of the indigenous bird species are found endemic. Incidentally, these 15 endemic species identified included ranked six and seven of the ten must see birds in the Philippines. Based on the categories under the IUCN Red List Categories and Criteria Version 3.1 (2001), all the identified birds belong to the conservation status, least concern. Further, on population trend, nine bird species were of unknown status whether their population is increasing or decreasing, 26 were with stable population, eight were decreasing and four were increasing. Forty-one of the species are insect-eating. The presence of the Scale-Feathered Malkoha and Spotted Wood Kingfisher, high endemism, and richness of bird species in the BSU land reservations in La Trinidad, Benguet indicates that there is a need to sustain or heighten the reservations' protection and conservation.



Location Map of the Study (BSU...



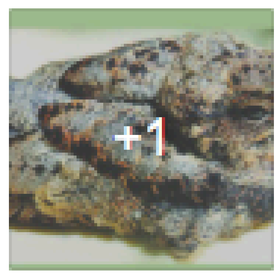
Cattle Egret (BSU Strawberry farm...



Great White Egret (Rocky area nea...



Yellow Bittern (Balili River, La...



Philippine Nightjar (Tabangaoen Pi...

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Articles

Development of endemicity and conservation importance indices for tropical forests and the floral diversity assessment of Mt. Natoo in Benguet, Philippines

Johndale Rein T.BULLONG, Jim P.SILVERIO, Joanna I.ALAFAG, Maricel A.GURON, Jones T.NAPALDET

Author information +

History +

Abstract

The scientific community faces the challenge of measuring progress toward biodiversity targets and indices have been traditionally used. However, recent inventories in secondary tropical mountain forests using traditional biodiversity indices have yielded results that are indistinct with primary ones. This shows the need to develop complementary indices that goes beyond species count but integrates the distribution and conservation status of the species. This study developed endemicity and conservation importance index for tropical forest that incorporated the distribution and conservation status of the species. These indices were applied to Mt. Natoo, a remnant primary mossy forest in Buguias, Benguet, Philippines, that resulted to endemicity index of 81.07 and conservation importance index of 42.90. Comparing these with secondary forest sites with comparable Shannon-Wiener, Simpson, Evenness and Margalef's indices, our endemicity and conservation indices clearly differentiates primary forest(our study site) with higher values from secondary forests with much lower values. Thus, we are proposing these indices for a direct but scientifically-informed identification of specific sites for conservation and protection in tropical forests. Additionally, our study documented a total of 168 vascular plant species(79 endemic and 12 locally threatened species) in Mt. Nato-o. Majority are of tropical elements for both generic and species levels with some temperate elements that could be attributed to the site's high elevation and semi-temperate climate. These are important baseline information for conservation plans and monitoring of tropical mossy forests.

Key words

Endemicity index / Conservation importance index / Cordillera Central Range / Floristic element / Jaccard Index of Similarity

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Abstract

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TECHNICAL

SESSION I: SOLIBAO HALL

DAY 2: MAY 20, 2025

TIME	RESEARCH PROPOSALS
08:31 AM - 08:55 AM	**Enhancing Conservation, Production and Utilization of Minor Root and Tuber Crops in Cordillera (4 Projects, 10 Studies)** Dalen T. Meldoz, Roger T. Gayumba, Esther T. Botangen, Joyce K. Mamao, Jennie B. Balao, Eden K. Laoyan, Hanzel M. Mallare, Viona Y. Cadiog
08:56 AM - 09:20 AM	**Crop Productivity and Pest Analysis of Root and Tuber Crops, High Value Vegetable and Strawberry Crops Planted for Land Resource Rehabilitation of the NPRCRTC (6 Studies)** Teresita D. Masangcay, Jennie B. Balao, Cheryll C. Launio, Dalen T. Meldoz, Ammie D. Ngaotoy, Roger T. Gayumba, Arlene B. Bautista, Gabby K. Dao-ines, Grace S. Backian, Esther T. Botangen, Cole Jeran C. Malucay, Cleje Ail B. Dogyang, Analiza V. Alzate, Hanzel M. Mallare
09:21 AM - 09:45 AM	**Assessment and Refining Seed Potato Production Techniques and Adoption of the Dispersed Rooted Apical Cuttings in Benguet and Mountain Province (7 Studies)** Teresita D. Masangcay, Arlene B. Bautista, Jennie B. Balao, Gabby K. Dao-ines, Dalen T. Meldoz, Alma D. Santiago
09:46 AM - 10:10 AM	**Promotion and Adoption of Potato as Food Security Crop in Low Agro-Ecological Zones (5 Studies)** Teresita D. Masangcay, Roger T. Gayumba, Ammie D. Ngaotoy, Cole Jeran C. Malucay, Cleje Ail B. Dogyang
10:26 AM - 10:50 AM	**Development of Mass Rearing Protocol of Cabbage Semi-Looper (Tricoplusia ni (Hubner))** Gemma S. Das-ilen, Nora Hill G. Ebasco, Dan Jones M. Cachero
10:51 AM - 11:15 AM	**R&D on Biocontrol Agents for Integrated Management of Insect pest and Arthropods of Selected High Value Crops (2 Projects, 4 Studies)** Gemma S. Das-ilen, Lucille M. Faroden, Nora Hill G. Ebasco, Erwin P. Iba, Rachel K. Tudayan, Monica S. Gambican, Jemar D. Cabforo, Casiano S. Pagadan, Felicitas D. Cabay
11:16 AM - 11:40 AM	**Sustainable Production, Seed Multiplication, and Product Development of Indigenous Vegetables under Good Agricultural Practices in Benguet (5 Studies)** Amelia M. Kimeu, Joyce N. Paing, Devens T. Wasing, Rey G. Lumpio, Joel C. Dicksen
11:41 AM - 12:05 PM	**Development of Hydroponics Production System for In-vitro Cultured Strawberry Varieties (3 Studies)** Milagros R. Dumaslan, Darwin A. Basquial, Jemma Rose M. Kilakil
01:01 PM - 01:25 PM	**BSU FLORA (Flora Listing and Observation of Rare and At-risk species): Comprehensive Cataloging of Endemic and Threatened Flora within the University Forest Reservation Areas in Support of SDG 15 Life on Land** Bernard Peter O. Daipan, Gerryc P. Alfonso, Mila D. Maguinsay