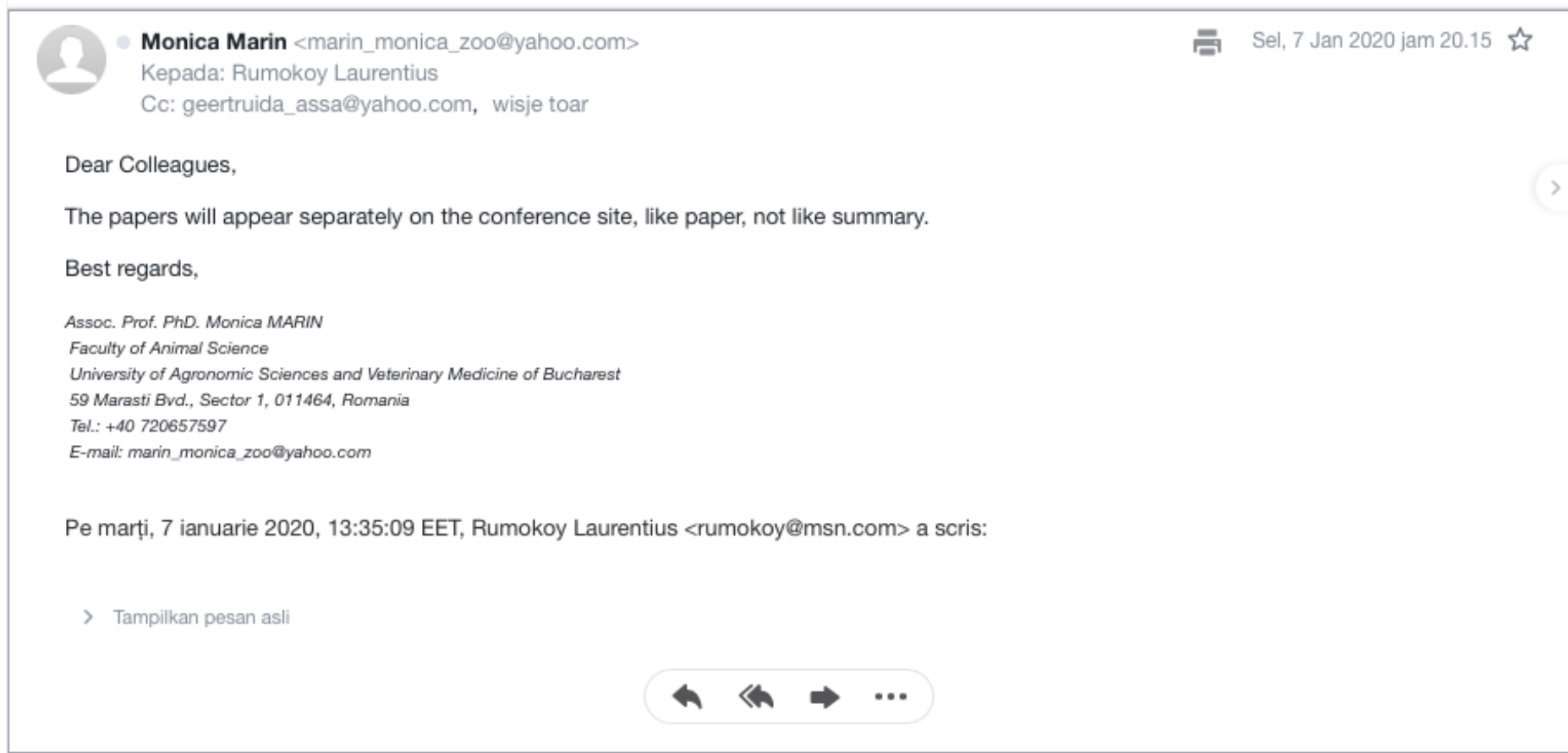



Bukti Komunikasi : Dengan Editor (Prof. Monica MARIN), 2020
Judul Artikel: : THE RELATIONSHIP BETWEEN ABUNDANCE, DIVERSITY WITH COWSKIN DEFECT ACCORDING TO DIFFERENT ALTITUDE, HUMIDITY AND TEMPERATURE IN THE REGION OF SOUTHERN MINAHASA



 ● **Monica Marin** <marin_monica_zoo@yahoo.com> 🖨 Sel, 7 Jan 2020 jam 20.15 ☆

Kepada: Rumokoy Laurentius
Cc: geertruida_assa@yahoo.com, wisje toar

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Best regards,

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Paper Geertruida ASSA et a... Halaman 1 dari 6 📄 📄 ⏪ ⏩ 🔍 ✕

THE RELATIONSHIP BETWEEN ABUNDANCE, DIVERSITY WITH COWS SKIN DEFECT ACCORDING TO DIFFERENT ALTITUDE, HUMIDITY AND TEMPERATURE IN THE REGION OF SOUTHERN MINAHASA

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Abstract.

This study aims to study the relationship between diversity and abundance of flies with cow skin defects according to differences in temperature and humidity in North Sulawesi. This research was carried out in two different regions: in the highland region, and in the lowland region. In the highland data was collected in cattle farms in Minahasa District such as in Madoinding. The activities in lowland realized in South Minahasa Regency such as in Tengah, Poigar. Identification of fly species carried out according to differences the temperature and humidity. The results showed that insect abundance in cows skin defects was significantly affected by Humidity (P = 0.023), but was not influenced by altitude (P = 0.341) or temperature (P=0.145). Cow skin defect was influenced by 66.8% by height, humidity, temperature, abundance, and diversity, and the remaining 43.2% was influenced by other factors. The diversity has a significant influence by altitude (P=0.034) and temperature (P=0.048) but was not the same to the humidity (P=0.138). It was obtained R2 value of 0.085 or 8.5% which meant that the diversity was influenced 8.5% by Height, Humidity, and Temperature, and about 91.5% was influenced by other factors.

Keywords: abundance, diversity, path analysis, skin defect.

INTRODUCTION

Flies as ectoparasites in cattle in Indonesia have become a priority for mitigation, but still lack on information such as a list of species that are existing cow skin defects in this area, including their biological and ecological geographical distribution. Koningsberger (1903), revealed the infestation of flies to livestock in Indonesia and reported findings in the form of *Tabanus ruficinctus* flies, *Chrysops dispar*, *Stomoxys calcitrans* and *Haematobia exigua* sp. Partoutomo et al (1981), reported that the types of flies found in cattle located in North Sulawesi were, *Haematobia irritans* sp., *exigua*, *Sarcophagi* sp., *Musca conducens*.

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