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DISTRIBUTION BUTTERFLIES IN THE MANOLI RESERVE FOREST AREA AND AMBA VILLAGE.

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ABSTRACT:

The amba and Manoli forest area is situated in Western Ghat which is UNESCO's World natural heritage site. The area is having rich in biodiversity. In 2015 to 2017 recorded 80 butterfly species in Amba and Manoli forest region. The area is having forest indicator species like Blue oak leaf and Tamil yeoman. The area is needed to conserve from the mining and uncontrolled tourism.

Keywords: AM fungi, Diversity, Wheat, Parner Tahsil

INTRODUCTION:

The amba reserve forest is located in Kolhapur district, Maharashtra state. This is situated in Western Ghats UNESCO world heritage site. The district of Kolhapur lies in the south-west of Maharashtra between 150 to 170 North latitude and 730 to 740 East longitude and spreads across the Deccan Platue in the rain shadow region of the Sahyadri mountain ranges on the southernmost tip of the state of Maharashtra. The Sangli district lies to the north, the Belgaum district of Karnataka State is to the east and south, Ratnangiri and Sindhudurg districts of Maharashtra are to the West. The Amba and Manoli region is situated in the Tehsil Shahuwadi.

The diversity of butterflies in Amba Reserve forest is pretty good. The dense semi evergreen forest patch is having number of butterflies in amba and Manoli area. The Manoli area is having dam reservoir which is suitable place for mudpuddling of various species.

MATERIALS AND METHODS

Field guides, Magnified glass, Camera. Survey carried by ecological sampling techniques. Line

transects survey conducted for butterflies during Jun 2015 to Oct 2017 (Sharma 2009). The morning time (9 to 11 a.m.) was chosen for sampling. The ecological survey carried out for seasonal variation. Total eighty species of butterflies recorded during the survey. The highest number of species observed after monsoon.

RESULT & DISCUSSION:

If we see the family and species number wise distribution. The nymphlidae family is having highest number of butterfly species. The second largest family number is lycanidae is having twenty species of butterflies. The data is collected from two different location first is Amba village and Manoli Reserve Forest. The locations were selected basis on two different habitat one was residential and one was forest area. Six species of butterflies from hesperiidae family were found in Amba village area. Two species were found in both village and forest area. One species found in Manoli reserve forest area. The Papilionidae family is having total nine species. The four species were found in Amba village area. Two species found in both Amba village and Manoli Reserve forest. Three species were found in Manoli forest area.

Pieridae family is having total ten species butterflies. Three species were found in amba village area. Two species were found in Manoli forest and five species were found in both village and forest area. Lycaenidae family was having total twenty species. Ten, six, four was found respectively from village, Manoli forest and both area. Nymphalidae family was having total thirty two species. In this family five species were found from village area, twelve species from forest area and fifteen species from both village and forest area. Some species occurred only in Manoli forest area blue oak leaf, Tamil yeoman, pointed ciliate blue. Total eighty species were found in Amba village and Manoli Reserve Forest both areas.

The graph shows number of butterflies occurred in different seasons. The post monsoon season is having large number of butterfly species. The post monsoon area is having butterflies diversity due to favourable climate and availability of nectarine flowers.

Conclusion- The amba forest region is very crucial area for butterflies. The area is having rich in diversity of butterflies. The area is having different future threats like mining, uncontrolled tourism, deforestation so it needed to be conserving the area.

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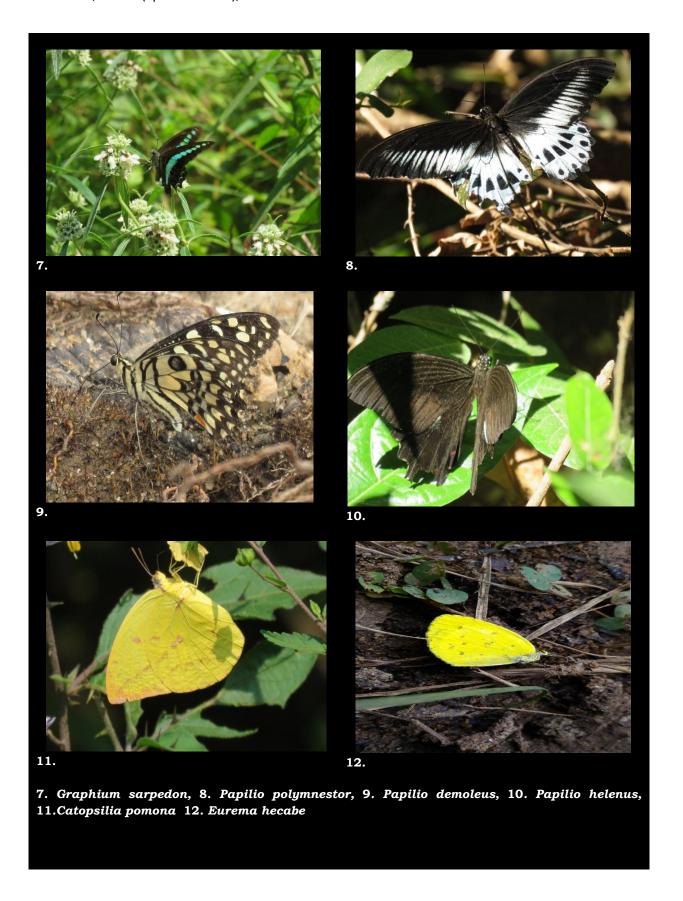
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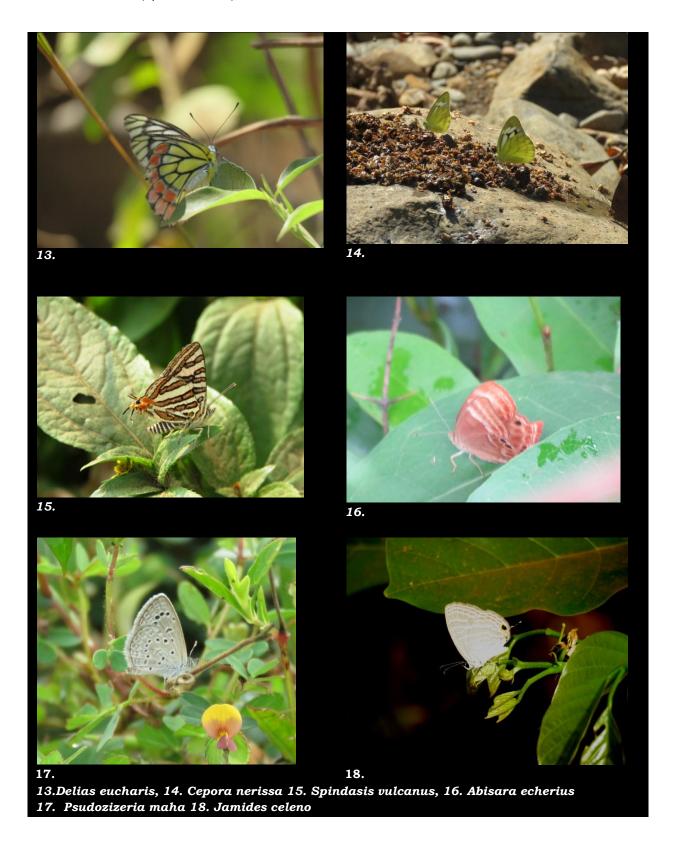
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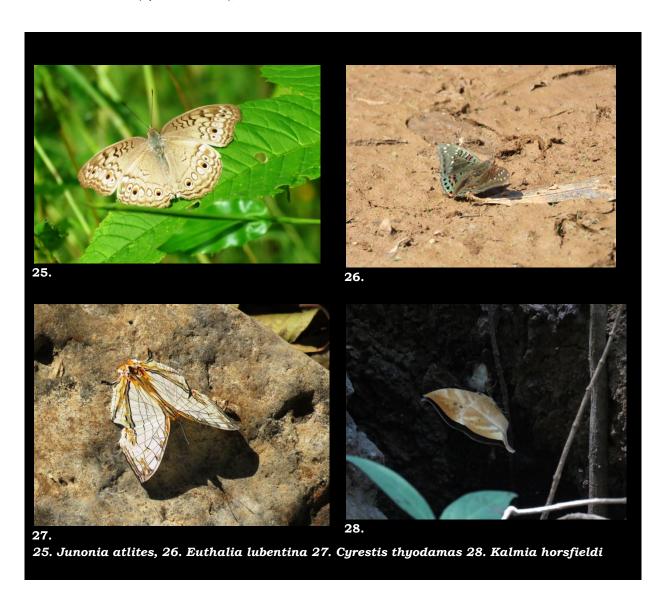
PHOTO PLATES- BUTTERFLIES IN STUDY AREA



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