# icipe in the media



# 22 January - 11 February 2024

# African countries urged to expand the use of Integrated Pest Management

Scientists have encouraged African countries to increase the use of Integrated Pest Management, which is a more sustainable, cost-effective, and environmentally friendly method of combating fall armyworms than the use of fertilizers, chemical pesticides, and mechanization.

 https://news.scienceafrica.co.ke/fall-armyworms-african-countries-urged-to-upscaleintegrated-pest-management/

# **Expert: Swarms** of butterflies not a bad omen, just mere migration

Current migration triggered by prevailing weather conditions that are very suitable in some regions, says scientist.

▶ But some community elders believe sighting of the insects portend famine

#### STANDARD TEAM

or the last few weeks, the skies have been beautified by swarms of butterflies. Some pause to savour the nent by taking pictures

However, while experts have said that it's a normal migration, some people believe it is a bad omen. Bad omen or not, Kenyans have been wondering what could be the

cause of the migration.

Njoroge Ndung'u, entomologist and curator of invertebrates at the Nation-al Museums of Kenya, says the ongo-ing migration is not of all butterflies

but of a specific species.

"The particular species is known as the Caper white or Brown-veined white. This species is largely white with a little black hence the noticeable

white colour," says Njoroge.

He says the current migration has been triggered by the prevailing weather conditions that are very suitable in some regions.

## Greener pastures

"So in essence, the butterflies are moving for greener pastures i.e. for food and egg laying. They lay eggs in areas where they are assured of food for their young ones. So the areas cur-rently receiving rains since December ers and food plants for caterpillars," he says.

However, Njuri Ncheke elders say that the sign of insects in January is

Julius Mbogori, an elder who runs a Njuri traditional court at Nchiru in Tigania West in Meru, says things will not be good in terms of food produc-

tion, with the coming of the insects.

"When you see a lot of insects all over our vegetation, it means hunger will follow and it is advisable to plan for it. In the past when we witnessed this, hunger always followed and this won't be different unless there are measures taken to ensure food security. This is surely a bad omen. From March there will be less rainfall," says

Mbogori Jennifer Mutwiri, a retired teacher,

that, in the past, the sighting of the insects brought famine, so residents should be worried and perhaps stock

"I cannot remember which seasons but whenever they came, famine fol-lowed because we had less rainfall and less food in the granaries," says Mutwiri

However, Njuri Ncheke Supreme Council of Ameru Elders Secretary General Josphat Murangiri believes butterflies in January is a sign of climate change.

"Traditionally we do not see butter flies around this month. We normally see them in May, after the March-April rains. People should not be worr that hunger will follow. If there is sufficient vegetation, the butterflies mean there is plenty of food," says Murangiri.

Dr Simon Gichuru, the chairperson of the elders in Murang'a County, says the butterflies are announcing an impending disaster. "In the past, they have led to hunger and this time it will be worse as we might lack drugs to combat the larvae," says Gichuru. Isaac Litali, an elder from the But-

sotso community in Western, says January is always hot but this year they have experienced a lot of rain that has brought butterflies and caterpillars.

He says the onset of butterflies signifies the abundance of food in the community as the insects appear during a harvesting season that occurs immediately after the rains.

"We normally see butterflies in plenty after we have harvested, espe-cially beans. This signifies celebration of the efforts that farmers have put into producing food during the plant-

ing season," he says.

However, he says that while but-terflies signify happiness, too many of them may raise an alarm of tragedy happening in the community.

Some parts of the country like the North Rift have not reported the migration. Most farmers in the area are preparing their farms for planting.

According to the Nandi commu-nity's cultural beliefs, the sighting of butterflies symbolises the beginning of a dry spell and that the warm temperature is conducive for the adult butterflies to start migrating from West to East

Benjamin Kitur, chair of the Kab wo Council of Elders, believes there is a dry spell in the offing. However, there is hope as the season will likely be followed by heavy rains. Kitur says the farmers should use



habitats are fast disappearing as they are turned into farmland and human settlements. Other equally significant threats include pesticide use and climate change. Butterflies being flower visitors often come into contact with residual pesticides sprayed on crops.

**Dr Njoroge Ndung'u**, entomologist and curator of invertebrates at the National Museums of Kenya

the opportunity to prepare their farm for planting before the rains start. Entomologist Njoroge says the general direction of migration is from North to South.

The Southern and Southwest-ern parts of the country as well as neighbouring countries of Tanzania, Rwanda, Burundi, DR Congo and Malawi, have been and are still receiving

heavy rains.

"We have reports from contacts "We have reports from contacts in Western Kenya, Rift Valley, Central parts of Kenya as well as far as Isiolo. So a big swathe of the country is experiencing the spectacular migration," he says.

The biggest threat to these colourful insects is habitat loss

"Important habitats are fast disap-pearing as they are turned into farm-land and human settlements. Other equally significant threats include pesticide use and climate change. Butterflies being flower visitors of-ten come into contact with residual pesticides sprayed on crops," says Dr Njoroge. But he says farmers should not be worried.

"The caterpillar stages of the

"The caterphiar stages of the butterflies are extremely specific on what they feed on. They feed on the leaves of a few plant species in a family of plants called Capparaceae (Caper family, hence their common name). It comprises various wild shrubs and small trees. Unlike us who sometimes want to change from ugali to pizza, most of these species stick to a very strict diet."

Entomologist Daniel Ochieng' Gamba says some of the white butter-flies are migratory and belong to the family Pieridae. The small all-white butterflies are the so-called cabbage butterfiles, specifically Pieris rapae, while the small white with tinges of black at the edges of the wings is referred to as the pioneer white or the African cape (Belenois aurota).

"This species has been reported in South Africa to migrate for hundreds of miles up to the island of Mada-

gascar. The butterfly's migration in Kenya has not received adequate research to determine how far and where they migrate. Some observa tions have placed them crossing to Serengeti. But these are anecdotal evidence. Other butterflies are localised in specific areas where they are useful in pollination of plants,

he says.
Gamba adds that the causes of the migration of insects are attributed to several factors. Key to this is the innate ability to detect weather variability and react to them if they are not favourable to the insect.

"The insects usually migrate to

increase the chances of successful reproduction in the new area that they are migrating, foraging for new sources of food and mating or search for mates," he says.

### Climate change

According to Dr Subramanian evgan, a principal scientist from the International Centre of Insect Physiology and Ecology, the unusual weather patterns, which are linked to climate change, are responsible for this phenomenon

"Currently most parts of the country have been recording an unexpect-edly high amount of rainfall from No-vember to January. This is unusual. Increased rainfall and temperature variations during this time of the year may have triggered a favourable environment for the growth of veg-etation which are breeding sites for butterflies and moths," he says.

He adds that this is a strange occurrence whose developments need to be studied further to understand and monitor potential patterns and impact on the local ecosystem

"It is strange to us since butter-flies are rarely seen in January. This triggers the need for further investigations to see if this is going to be a trend," says Dr Sevgan. [Reports by Rosa Agutu, Phares Mutembei, Mary Imenza and Edward Kosut]

The Standard (Kenya), published 6 February 2024

# Social Media



OACPS Research & Innovation

@OacpsProgramme

Dans notre nouvelle série d'interviews dédiés aux beneficiaires du programme OACPS R&I, aujourd'hui la parole est donnée à Stanislas KOUSSAHOUE de Africa Green Corporation SA, qui coordonne le projet tiers BoMeF, supporté par #AGriDI (@icipe).

→ ow.ly/Yn3V50QuKgT @PressACP

Translated from French by Google

In our new series of interviews dedicated to beneficiaries of the OACPS R&I program, today the floor is given to Stanislas KOUSSAHOUE from Africa Green Corporation SA, who coordinates the third-party BoMeF project, supported by #AGriDI (@icipe).

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youtube.com
OACPS R&I Programme- KOUSSAHOUE Stanislas

11:01 AM · Jan 29, 2024 · 308 Views



NemaChap @DannyCoyne6

Exploring the future of Banana Fiber Technology at Eldoret! #Stakeholders gathered for a 3-day meeting, featuring a visit to Biocorn - a potential Banana Paper manufacturer. Thanks to @BioInnovate, the project promises sustainable innovation in action. @icipe @IITA



Solveig Haukeland and 4 others

1:41 PM · Feb 2, 2024 · **1,774** Views



A masterclass in trypanosomiasis from @masigaD @icipe for #Afribop2024 students \*



👗 Dan Masiga

2:58 PM  $\cdot$  Feb 6, 2024  $\cdot$  1,374 Views



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bit.ly/4bww0F9



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Shepard Ndlela

With Minister/CEC Agriculture Narok County Government discussing tomato production, post-harvest handling, aggregation, markets and processing under the project ISPOT In Kenya funded by @FutureForAll. @icipe @NarokCountyGvt @kirinyagacounty @kalromkulima



2:21 PM · Feb 1, 2024 · 66 Views



Science Africa

@Science Africa 5

Fall Armyworms: African Countries Urged to Upscale Integrated #Pest Management

Scientists have urged African countries to upscale Integrated Pest Management (IPM) in Fall Armyworms (FAW).

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9:52 AM · Feb 1, 2024 · 45 Views

**pre**Lipto

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Reif

Research. Innovate. Transform @PasetRsif

We had the honour of hosting a distinguished delegation from the @CarnegieCorp, led by Prof. Dame Louise, President of The Corporation, right here at @icipe! The fruitful discussion explored progress, shared interests, and exciting opportunities for future #collaborations ...

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👗 Deana Arsenian

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3:29 PM · Feb 7, 2024 · 55 Views



@IAS\_Kenya attended training at @icipe and gained insights on maggots harvesting and its benefits.@IAS\_Kenya will integrate this knowledge into its programs to empower women groups,farmers managing demo farms and local communities pursuing poultry ventures #passionforhumandignity



1:41 PM · Feb 8, 2024 · 78 Views



🙏 @Sida



Insect Week

9:35 AM · Feb 7, 2024 · 418 Views



Today, we kick off our campaign for International Day of Women and Girls in Science #IDWGIS we celebrate @MenaFishcos

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Aquaculture NA and 9 others

3:30 PM · Feb 7, 2024 · 1,176 Views



What's with all the white butterflies in Kenya?

Read this fascinating blog by @icipe entomologist Sevgan Subramanian icipe.org/news/blog/inse...

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& Kimuri Kia Mwangi and 4 others

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