



Photo: V. Shubhalaxmi

## Lesser Atlas Moth (*Attacus trapobanis*)

Meet the second largest moth of India. It has a wing span of 18 cm. It belongs to the group of Emperor Moths who are known for their fasting adults as they lack mouthparts. They are indicators of healthy forests.

### January 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

14-30 : Animal Fortnight

15 : Pongal Makar Sankranti

26 : Republic Day

#### Last Year Memory



**Celebrating Animal Fortnight through habitat restoration**

Ladybird conducted events for DCB Bank in Kolkatta and Ahmedabad where their employees helped in Lake Clean up at Rabindra Sarovar and spruced up nature trail at Serenity Library.

**Volunteers: 47**

**Hours: 282**

**Events: 2**



Photo: Isaac Kehimkar

## Yellow Monkey Moth (*Eupterote lineosa*)

A slow flying, large and hairy moth, belongs to the group of Monkey Moths. The adults are non-feeders and the caterpillars are densely hairy. They remain camouflaged during day time among leaf litter. When handled, they play dead. They are indicators of healthy forests.

### February 2019

Last Year Memory

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		



**Celebrating World Wetland Day through education**

iNaturewatch conducted mangrove walks for Vishwajyot High School and Sacred Heart School at Talawe in Navi Mumbai. Also conducted a free birding programme as part of the Kere Habba Festival in Kaikondrahalli Lake, Bangalore.

Participants: 351 Programmes: 9 Locations: 7

2 : World Wetland Day





Photo: V. Shubhalaxmi

## Lola Emperor Moth (*Salassa lola*)

A denizen of pristine forests, belongs to the group of emperor moths who are known for their larger size and beauty. Eyespots on the hindwing are mistaken for an owl by smaller birds while the moth is resting.

### March 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

3 : World Wildlife Day

9 : Solar Appreciation Day

20: World Sparrow Day

21: World Forestry/planting Day

22: World Water Day

4 : Mahashivratri

21 : Holi

#### Last Year Memory



#### Celebrating World Forestry Day through education

Ladybird conducted Bird Architecture Workshop for Tata Communications Ltd. in Mumbai. Also conducted three events for DCB Bank; building check dam in Navi Mumbai, Stream Clean-up in Mumbai, Lake Clean-up in Bangalore.

Volunteers: 169

Hours: 964

Events: 7



Photo: V. Shubhalaxmi

## Patrana Hooktip (*Callidrepana patrana*)

A master of camouflage, this moth remains invisible among the fallen dry leaves during the day. It belongs to the group of Hooktip Moths who get their name from the hooked wing tips. These are indicators of healthy forests.

### April 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

13: International Plant Appreciation Day

22: Earth Day

14: Ram Navami/Dr. B.R. Ambedkar Jayanti

17: Mahavir Jayanti

19: Good Friday

### Last Year Memory



Celebrating Earth Day by appreciating its wildlife

iNaturewatch conducted Flamingo Boat Safaris through the Coastal Marine Biodiversity Centre in Navi Mumbai. The safari gave participants & opportunity to view flamingos at close quarters.

Participants: 558 Programmes: 16 Locations: 10







Photo: V. Shubhalaxmi

## Large Elephant Hawkmoth (*Deilephila elpenor macromera*)

This fast-flying moth is an important pollinator of flowers that bloom after sunset. They have bright underwings which help them to startle their predators. Their caterpillars too have fake eye-spots that 'fool' their predators.

### May 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

12: World Migratory Day

19: Endangered Species Day

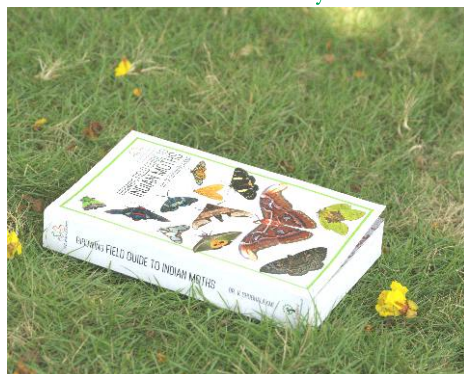
22: International Day for Biological Diversity

23: World Turtle Day

1 : Maharashtra Day

18 : Buddha Purnima

### Last Year Memory



### Celebrating Biological Diversity by popularizing the unknown species

Ladybird through its publishing vertical - Birdwing Publishers, published India's first Field Guide to Indian Moths by Dr. V. Shubhalaxmi. The book was released by Dr. Asad Rahmani. Also four workshops for CRISIL Foundation were conducted on Kitchen Gardening in Ahmedabad, Gurgaon, Pune and Bird Architecture in Chennai.

Volunteers: 447

Hours: 2168

Events: 17



Photo: Suraj Das

## Harlequin Tiger Moth (*Campylotes histrionicus*)

A day flying moth that mimics distasteful Striped Tiger Butterflies. They belong to group of burnet moths who are known to harbour hydrogen cyanide in their bodies to evade predation. This is an indicator of healthy forests.

### June 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

5:World Environment Day  
 8:World Ocean Day  
 17-23:World Pollinators Week  
 5:Ramzan Id

### Last Year Memory



**Celebrating World Environment Day through nature appreciation**

iNaturewatch conducted monsoon walks in Kharghar Valley, Navi Mumbai and in Muthuraynabetta in Bangalore. Also a nature trail inside Aarey Forest was conducted for a family group.

**Participants: 878 Programmes: 24 Locations: 17**







Photo: Viral Mistry

## Blue Owl Moth (*Erebus albicinctus*)

This beautiful moth from pristine forests belongs to the group of owl moths. The large eye spots on wings resemble owl eyes that protects the moth while resting during day time. It feeds on overripe fruits and sweet tree sap.

### July 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

### Last Year Memory



### Celebrating Van Mahotsav Day through rejuvenation of wild habitats

Ladybird secured Nizampet Lake Rehabilitation Project of Wells Fargo India Solutions Pvt. Ltd. in Hyderabad. The project aims at enhancing the lake ecology through plantation and environment awareness. Also, a tree plantation was carried out at Jarakbande Tree Park in Bangalore by DCB Bank.

Volunteers: 643    Hours: 3132    Events: 23

- 1: Van Mahotsav Day
- 20-28: National Moth Week
- 26: International day of Mangroves
- 29: International Tiger Day



Photo: Isaac Kehimkar

## Andaman Lappet Moth (*Trabala* sp.)

An unidentified moth known from Andaman Islands. It belongs to the group of Lappet moths which are known for their hairy and fasting adults. They rest in unique style where underwings are brought forward below upperwings.

### August 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

#### Last Year Memory



**Celebrating World Elephant Day first time in Bangalore**

iNaturewatch designed a unique programme in order to create awareness about elephants in Bangalore. A nature walk and talk was organized inside elephant territory at A Rocha Field Study Centre. Also an Insect Safari was conducted at Nagala, Mumbai and a Teacher Training Workshop at JBNC International School.

**Participants: 1229 Programmes: 31 Locations: 23**

- 10: World Lion Day
- 12: World Elephant Day
- 12: Bakri Id
- 15: Independence Day / Raksha Bandhan
- 24: Janmasthami





Photo: V. Shubhalaxmi

### Grey Brahmid Moth (*Brahmaea wallichii*)

A spectacular moth with cryptic patterns that helps in camouflage while resting during the day. It belongs to the group of Brahmid moths who are rare and denizens of pristine forests. Adults are non-feeders.

## September 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

16-18: Cleanup the World Campaign  
 20: International Day for Coastal CleanUp  
 21: Zero Emissions Day  
 22: World Rhino Day

2: Ganesh Chaturthi  
 10: Muharram

### Last Year Memory



Celebrating Clean-Up the World Campaign through community actions

Ladybird installed a Floating Wetland in Kharghar, Navi Mumbai for Tata Consulting Engineers Ltd. Also a clean-up drive was conducted inside Asola Bhatti Wildlife Sanctuary, Delhi for CRISIL Foundation. In Maharashtra, two Butterfly Habitats at Yusuf Meherali Centre, Tara and Divya Vidyalaya, Jawhar were developed by planting 4000 saplings by employees of DCB Bank.

Volunteers: 796	Hours: 3820	Events: 28
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Photo: Isaac Kehimkar

## Checkered Snout Moth (*Pygospila tyres*)

A common moth often seen flying in gardens when disturbed during the daytime. It belongs to the group of Grass Moths, who are smaller in size. Adults are known for their glistening bodies and long legs. Many affect our crops.

### October 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

### Last Year Memory



Celebrating Wildlife Week through Butterflying

iNaturewatch conducted butterfly walks inside Kamala Bird Sanctuary in Mumbai and Jarakbande Butterfly Park in Bangalore. Also a wildflower walk for a nature club Kilibahat and mangrove walk for Udaan Foundation was conducted in Navi Mumbai

Participants: 1537 Programmes: 41 Locations: 26

2-8:Wildlife Week  
4:World Habitat Day  
2:Gandhi Jayanti  
8:Dussehra  
27:Deepawali

[www.inaturewatch.org](http://www.inaturewatch.org)



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Photo: V. Shubhalaxmi

## Tropical Swallowtail Moth (*Lyssa zampa*)

This large, spectacular moth is denizen of pristine forests in Northeast. It belongs to the group of Swallowtail Moths who are known to have tailed wings. The moth is often mistaken for a swallowtail butterfly for its tailed wings.

### November 2019

#### Last Year Memory



**Celebrating Dr. Salim Ali's Birthday by creating homes for wild**

Ladybird developed nature trails, bird and bug homes through volunteering programme of L'Oreal India Pvt Ltd coordinated by United Way Mumbai in CBD Belapur. Also conducted Kitchen Gardening Workshop for Wells Fargo India Solutions Pvt. Ltd in Bangalore.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

12:Dr. Salim Ali's Birth Anniversary

12:Guru Nanak Jayanti

Volunteers: 1021

Hours: 5000

Events: 33



Photo: Isaac Kehimkar

## Yellow Grey-tip Geometer (*Celerena divisa*)

A dayflying moth which may be mistaken for a butterfly. It belongs to the group of Geometer Moths who are known for their looper caterpillars. Adults rest by hugging the surface. Many are indicators of undisturbed forests.

### December 2019

#### Last Year Memory

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



Celebrating World Soil Day through environmental awareness

iNaturewatch conducted nature walk along the agricultural farms behind the Kharghar Railway Station. A kitchen gardening workshop and two lectures KTHM College, Nasik was conducted. A free birding walk was also conducted at Nizampet Lake in Hyderabad.

Participants: 1765

Programmes: 50

Locations: 31

5:World Soil Day

25:Christmas



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# NIGHT BUTTERFLIES

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## Moths-the night cousins of Butterflies

*This year marks the 5<sup>th</sup> year of entrepreneurial journey of our founder Dr. V. Shubhalaxmi who is also known as Moth Lady/Bug Lady. This calendar is therefore dedicated to two entities of her labour of love; Ladybird Environmental Consulting LLP and iNaturewatch Foundation.*

*We chose moths as theme for this year's calendar as Dr. Shubhalaxmi published India's first Field Guide on Indian Moths recently. Also moths are lesser known cousins of butterflies who deserve some limelight like butterflies. We hope you will enjoy the dark secrets of moths which this calendar is about to reveal.*

*Besides, we also like to take you on our journey of last year by showcasing works done by Ladybird and iNaturewatch. We like to acknowledge the support each of you extended in helping us grow. A big **Thank you** to you all.*

*On behalf of our entire team we wish you, your colleagues and family a **Happy and Healthy New Year!***



# What We Did Last Year?

## Ladybird Environmental Consulting

### Events

- 33 Employee Volunteering Programmes in 10 cities, 1021 volunteers from nine corporates clocking 5000 hours.

### Locations of Operation

- Ahmedabad, Bangalore, Chennai, Delhi, Gurgaon, Hyderabad, Kolkata, Mumbai, Navi-Mumbai, Pune.

### Our Clients

- DCB Bank, CRISIL Foundation, Mahindra Susten Pvt. Ltd., Galaxy Surfactants Limited, Wells Fargo India Solutions Pvt. Ltd., Tata Consulting Engineers Ltd, Tata Communications Ltd, United Way Mumbai, State Forest Dept. Of Maharashtra.

### Projects

- Developed 14<sup>th</sup> Butterfly Habitat in Maharashtra for DCB Bank
- Working on Lake Rehabilitation Project in Hyderabad for Wells Fargo India Solutions Ltd.
- Conducting professional development workshops for entrepreneurs

### Publications

- Published India's first book - Birdwing Field Guide to Indian Moths by Dr.V.Shubhalaxmi
- Developed Field Guide of Common Wildflowers of Sanjay Gandhi National Park, Borivali for Maharashtra Forest Dept.

### Honours

- Dr. Shubhalaxmi was invited to present a paper at a conference in Taiwan on case study for developing butterfly habitats under CSR. She was also honoured with Excellency in Entomology award by Thinkwildlife Awards.

### Online Presence

- Online rating of 4.9 out of 5
- Facebook page followers 1.5K, 150 on Instagram and 122 on twitter



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## iNaturewatch Foundation

### Events

- 50 programmes in 31 sites.
- Programmes includes 30 walks, 5 workshops, 3 Camps, 1 Green Birthday 7 environmental talks, and 5 sponsored programmes.

### Locations of Operation

- Greater Mumbai, Pune, Bangalore, Hyderabad

### Our Target Groups

- 1765 participants (1175 General public including children, adults and senior citizen, 490 school students & 100 college students)

### Projects

- Mangrove competition to celebrate 'International day of mangroves' in collaboration with United Way Mumbai.
- Conducted mangrove awareness programmes in collaboration with United Way Mumbai
- Conducting free walks at Nizampet lake, Hyderabad.
- Conducted nature awareness walks for Palava City residents in Dombivili
- Conducted lectures on Urban Ecology for NMMS University, Mumbai
- Established Butterfly Gardens for Symbiosis Institute in Pune

### Honours

- Dr. Shubhalaxmi was selected to be part of the international panel for National Moth Week.
- Mr. Isaac Kehimkar became member of Governing Council of Bombay Natural History Society. He was also honoured with Excellency in Lepidoptera Research award by Thinkwildlife Awards.

### Online Presence

- Online rating of 4.9 out of 5
- Facebook page followers 2.1K, 200 on Instagram and 80 on Twitter.



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