



Monday, September 23



Coming Together on Climate

The Bipartisan Climate Solution in Congress

Tony Schmidt, our September speaker, is state coordinator for Citizen's Climate Lobby. He will explain the CCL-backed **Energy Innovation and Carbon Dividend Act** (EICDA) currently before Congress. The EICDA will reduce US carbon emissions by 40% over the next 12 years and create some 2 million jobs. Known as Fee & Dividend, it will place a fee on carbon at its source, then pass that money on to all Americans as a monthly dividend. The dividend will especially help low- and middle-income Americans, while the fees will encourage green energy innovation and discourage use of fossil fuels. The overarching goal of CCL is to pass the EICDA or similar legislation. They also support the bi-partisan congressional Climate Solutions Caucus. (www.citizensclimatelobby.org/)

Tony will brief us on National Lobby Day in June when CCL had face-to-face meetings in Washington, D.C. with Reps Watkins and Marshall, and staff meetings with Senators Moran and Roberts and Reps Davids and Estes. The resolution by KCMO's City Council supporting a national carbon Fee & Dividend system to fulfill our collective responsibility under the Paris Agreement will also be a topic.

Originally from Hays, Tony is a graduate of American University. He met his wife in DC while working as a news cameraman for WUSA-TV. They have 4 adult children & are retired after selling their Lawrence-based, multi-state business in 2007. He joined CCL 8 years ago because they offer a solution focus to the climate crisis and *notes that citizens must speak out now on the need for action.*

Climate change **is** underway now. Join us on the 23rd to learn about practical efforts to slow the pace and avoid the worst outcomes.

~ Joyce Wolf, Programs

BYO Dinner with Tony Schmidt: 5:00pm. HuHot. 2525 Iowa. To come to dinner RSVP to Joyce Wolf: jarbwolf39@gmail.com or 785-887-6019

Program: 7:00 pm. Baker Wetlands Discovery Center. 1365 N. 1250 Road, Lawrence

Charismatic Celebrities

To Visit Our Town:

Yes! Migrating Monarchs Coming

Monarch Watch/JAS/Baker Wetlands

FREE TAGGING EVENT

Saturday September 21st

8:00am—12:00 pm

Baker Wetlands Discovery Center

365 N. 1250 Road, Lawrence.

- ★ Open to the public ~ *come one & all & all ages*. Come & go as you please.
- ★ No experience necessary. Chip Taylor of Monarch Watch will demonstrate tagging!
- ★ If you have a b'fly net bring it, but tags and nets will be provided.
- ★ Sunscreen, sturdy shoes, & a hat will keep you comfortable. *Dress to get mucky.*
- ★ BYO snacks and a refillable water bottle. There are bathrooms and a water fountain in the Discovery Center. Hooray!
- ★ Crafts and activities inside the Center.
- ★ *Plus, don't forget the Monarch Watch Fall Open House on Sept. 14. See page 4.*

2019 ~ 2020 Clip and Save Schedule Bird Seed, Book & Feeder Sales

Lawrence Senior Center renovations will be done by October, so we'll return to 745 Vermont Street in the Connolly Room! Sale dates are:

Saturday, 10/26/2019 10am ~ 1pm

Saturday, 12/07/2019 10am ~ 1pm

Saturday, 02/01/2020 10am ~ 1pm

Order forms will be on our website and in the newsletter in October! We are **very** excited that soon we will see all of you and hear your summer birding and backyard feeder tales.



Learning About Nature Project Report

KU Field Ecology instructor Bob Hagen and I are planning for field trips to Potter Lake on October 3 and 4. Our preparation of Bob's KU students (usually around 45) takes place over the two weeks prior to that. In this 7th year of our partnership we're offering the trips to Southwest, the only middle school that hasn't been involved previously. We'll work with teachers there to help develop plans for their field trips.

We also plan to repeat the post-trip component added last year. After gathering ideas from 7th grade science teachers, I prepared 14 KU students, who chose this as their culminating project, to go into 7th grade classrooms to both follow up on the field trips and share with middle school students the wide range of career paths the collegians plan to pursue with their background in environmental studies. According to the KU students who went, as well as the teachers and students whose classes were addressed, this was a very popular addition to the LANP.

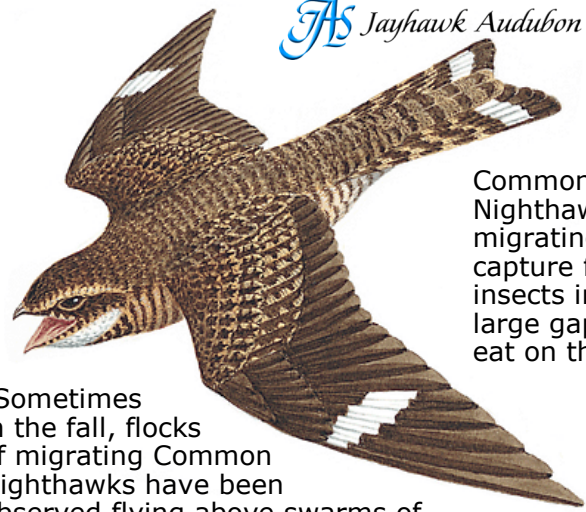


~ Sandy Sanders, Education Chair

Monarch caterpillar becoming a chrysalis. Jack Hulland School. The Yukon

Other Chapter News:

- ~ Vanessa Carlos, Vice President, attended the National Audubon Convention in Milwaukee in July. She brought back new enthusiasm and ideas to further our goal of increasing our chapter diversity, inclusiveness and equity. One encouraging fact for the future: 25% of convention attendees were under 30!
- ~ New AOK Representative: Board member McKay Stangler has volunteered to be JAS chapter rep on the Audubon of Kansas board replacing Ron Wolf, who is stepping down after ably and faithfully serving in the post for many years. Thank you Ron for your dedication to both groups! Thank you for taking on the job McKay!
- ~ Look for us at Lawrence Public Library's "Keep Retirement Weird" event on 9/15. We'll be talking up birding and Plants for Birds to anyone of any age who'll listen...
- ~ Chapter-Only Membership Update: Such memberships (\$10/year) used to all expire July 1st at the end of the fiscal year. Starting now they will expire a year from when we receive your payment. Thus, no matter when you join, you'll be enrolled as a member of JAS for a full year in return for your contribution. Thanks!



Common Nighthawks—migrating now—capture flying insects in their large gape and eat on the wing.

"Sometimes in the fall, flocks of migrating Common Nighthawks have been observed flying above swarms of Common Green Darners, both creatures feeding on masses of smaller flying insects. The nighthawks typically do not prey on the dragonflies. Both species tend to keep to their own space. The relationship appears to exist only due to the concentration of small insect prey." Source: <https://www.mndragonfly.org/html/behavior.html>

However, other birds, such as Mississippi Kites, do eat dragonflies, the Kites often holding them in one foot while taking bites! *Audubon Field Guide*

JAS Officers & Board Members

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jbresnahan@ku.edu

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Audubon of Kansas

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Kansas Ornithological Society Fall Meeting

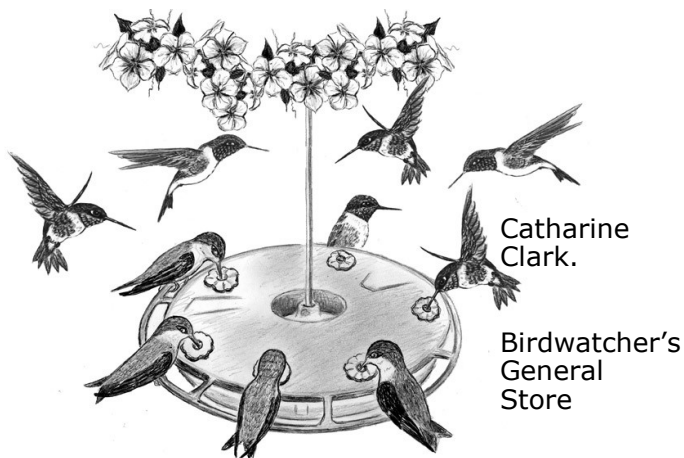
Friday, Oct. 4 ~ Sunday, Oct. 6 Wichita, KS

If you are a newbie birder, KOS meetings are one of the best ways to meet other enthusiasts and see lots of birds aided by friendly expert birders. The KOS fall meeting is the official annual meeting for the society. On Saturday morning there are research paper presentations. After the lunch break is Birdwatchers Hour for sharing bird photos.

Evening brings a banquet (casual dress). This year's speaker is Ted Floyd, editor of *Birding*, the magazine of the American Birding Association. On Sunday there are field trips, then once the compilation is over, everyone heads home, often on a rather circuitous Birder's Direct Route!

Usually meetings start with a Friday evening social, but this year there are Friday field trips! For full details on prices, lodging and more and to register, visit the KOS website and click on the Fall Meeting: <http://ksbirds.org/>.

~ from the KOS website



Feeders and Hummingbird Territories

Hummingbirds have fledged their young and adults and immatures alike are intent on fattening up for the long journey south. Feeders are whirlwinds of visitors and competition.

Kenneth Kinman reported on Ruby-throated hummer territories via KSBIRDS listserv: "A male Ruby-throat is effectively able to defend a territory of approximately a quarter-acre or so... If the territory contains prime resources such as patches of nectar plants and/or a well-maintained artificial feeder, the bird will not have to leave his area on foraging trips. Females will forage up to half a mile in any direction from a nest--inscribing a circle of up to a mile in diameter." Of course as migration progresses territories are left behind. <http://www.rubythroat.org/RTHUTerritorialityMain.html>



Sandhill Cranes. Bosque del Apache NWR, New Mexico. Wikimedia. By John Fowler.

2019 Celebration of Cranes

Friday, Nov. 1 ~ Sunday, Nov. 3
Quivira National Wildlife Refuge

Join Audubon of Kansas the first weekend of November at Quivira NWR for the second annual Celebration of Cranes. There will be van tours, nature walks and activities *for all ages* throughout the weekend, but most of all, there will be cranes: ***Sandhills and Whoopers!***

Van tours will be morning and late afternoon when the cranes are most reliably in the refuge. Midday, when cranes may not be viewable (because they move out to area fields to feed), there is a full slate of things to do and speakers including:

- ★ Liz Smith, International Crane Foundation
- ★ Mike Oldham, Quivira Refuge Director
- ★ Anne Lacy, Crane Research Coordinator, Eastern Whooping Crane Partnership
- ★ Rex Buchanan, Ks Geology Survey (retired)

There will be registration information in next month's JAS newsletter or you can visit <https://www.audubonofkansas.org/about> and click on the events tab for updates.

It is that range of biodiversity that we must care for
—the whole thing—
rather than just one or two stars.”
~ David Attenborough

September Calendar

- Sat. 9/7: Sunrise Movement Open House. 2-4 pm. Lawrence Public Library, Meeting Room C. Meet organizers and share thoughts on environmental concerns. Refreshments. <https://www.facebook.com/events/926141411067296/>
- Th. 9/12: Native Plant Sale. Grassland Heritage Foundation (GHF). 4-6:30 pm. Cottin's Farmer's Market. 1832 Mass. Also on 9/19 with different plants!
- Sat. 9/14: Hidden Valley Camp Workday: 9am-noon. Help clean up the camp, then tag monarch butterflies! RSVP to Durand: durandi@sunflower.com or 785-865-4657.
- Monarch Watch Fall Open House**: 9am-2pm. Foley Hall, KU West Campus. The 19th and Iowa entrance to West Campus is closed, so check directions at <http://www.monarchwatch.org/>. Learn about Monarch Way-stations and see the butterfly/pollinator garden. Refreshments, tours of the lab space, games, videos.
- Kansas Land Trust Disc Golf Tournament: 8am-1pm. Thornfield Disc Golf Course. Stillwell, KS. Support prairie/farmland conservation while playing this private course. Contact averykoerner@gmail.com for more information or to register a team.
- Sun. 9/15: Birding field trip to Roe Park, Overland Park. Burroughs Audubon. Meet at 7am. Paved trails. Contact trip leader Will Kirsch at williamkirsch1109@gmail.com. More info/other trips at <http://burroughs.org/its-free/field-trips-programs/>
- Wed. 9/18: Nature Book Club. 6:30-8pm. Lawrence Public Library. Discuss fiction or nonfiction books connected to the natural world. Co-leaders: Jake Vail & Shirley Braunlich. Contact: Shirley Braunlich sbraunlich@lplks.org 785-843-3833.
- Science on Tap: The Kansas Watershed: Flow, Flooding & Management. 7:30pm. Dawn Buehler, Kansas Riverkeeper. Free State Brewing. 636 Mass, Lawrence.
- Fall Native Plant Gardening. Grassland Heritage Foundation. 7pm. Baldwin City Public Library. 800 7th St. Roxie McGee, Master Gardener & Kim Bellemere, GHF. Email grasslandheritage@gmail.com for more information and to RSVP. Free.
- Th. 9/19: Native Plant Sale. GHF. See 9/12.
- Sat. 9/21: **Monarch Tagging Event**. See page 1.
- Sun. 9/22: Backyard Bash. 1-4pm. Marvin Grove behind Spencer Museum, KU. KU Nat. Hist Museum will demonstrating *insect macro photography*. Many other activities.
- Mon. 9/23: **Coming Together on Climate**. JAS program. See page 1.
- Tues. 9/24: Workday~Cemetery Native Plant gardens. 5:30-6:30pm. GHF/JAS. See Facebook.
- Sat. 9/28: Kansas River Clean-up. Friends of the Kaw. 9-noon. 7th & New York at the river. <https://kansasriver.org/calendar/> to **sign up** for after party at Lucia Beer Garden.
- Sun. 9/29: Astronomy night. Astronomy Associates of Lawrence. 7pm meeting. Stargazing afterwards if weather permits. Baker Wetlands Discovery Center.
- Fri. 10/11– Sun. 10/13: Cheyenne Bottoms/Quivira NWR field trip. Burroughs Audubon. See website for details. <http://burroughs.org/its-free/field-trips-programs/>
- Sat. 10/26: Black Jack: The Trees, The Trail, The Territory. Guided Van trip. \$. More info and sign up at <https://lawrenceks.org/lprd/>

Fall's "Endless Skyway" Is Full of Migrants Flying South: Birds of all kinds, Monarch Butterflies, & ...*Dragonflies???*

Yes! Green Darners, Eastern Pondhawks, & Twelve-spotted Skimmers
migrate in huge swarms.

BUT, out of all 450 species of North American dragonflies
only 16 or 17 species have populations that are known to migrate.

Dragonflies are insects. Like all insects they have :

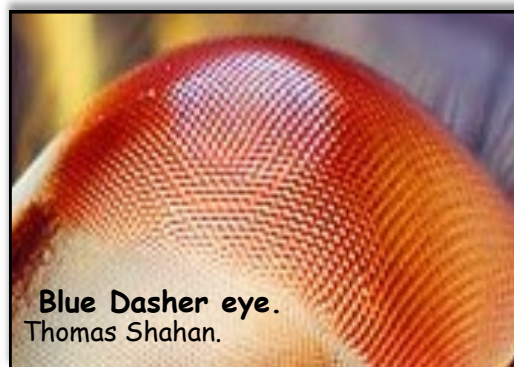
✱ 3 body parts ~ *head, thorax, & abdomen*; ✱ Antennae; ✱ 6 legs.

Like many insects they have wings.

Cooler of all they have big compound eyes made of 28,000 simple eyes called ommatidia which gives them great vision for their aerial hunting while in flight.



Twelve-spotted Skimmer



A dragonfly's compound eye
is made of many small eyes"
called *ommatidia*.



Eastern Pondhawk

Where are the antennae?
They are very tiny & hard
to see. Why? See page 6.

DRAGONFLY LIFE CYCLE:

- Dragonflies lay eggs in the water or on plants in wetlands, ponds & streams.
- The babies that hatch from the eggs are called Nymphs or Naiads. → → →
- The nymphs are aquatic (= live in the water) for months or even years.



- They are fierce hunters, eating insects, tadpoles, and even small fish.
- Naiads grow & molt (= shed their skin) a dozen times.
- One spring, when they have grown enough, they climb out of the water onto a plant stem. Their back splits open and an adult dragonfly emerges!

THINGS TO DO:

- When you are at the wetlands tagging monarchs watch for dragonflies & dragonfly swarms. (A swarm is a big group, especially one that is moving.)
- Also check for migrating swarms in mid-September at the Rotary Arboretum. Kids' Page saw one there last year plus bonus tons of butterflies nectaring on the flowers. (BTW dragonflies don't sting, so it's okay to get close to them.)
- If you see a swarm, try to figure out what direction they are headed.
<https://journeynorth.org/tm/fall/DragonflyMigration.html#Ornithologist>
- Get out an Atlas & track the world's longest dragonfly migration: 10,000 miles!! Start in southern India, find the Maldives, then the Seychelles, Mozambique, & then Kenya & Uganda. Then back to India!! The Globe Skimmer species flies all that way helped by wind & using rain puddles to breed. From October to April, four generations hatch & die on the trip. See the newsletter on the JAS website for the map. http://news.bbc.co.uk/earth/hi/earth_news/newsid_8149000/8149714.stm

• At the Library:

Are You A Dragonfly? Judy Allen. 2001.

Insect. Laurence Mound. DK Eyewitness Series.

Dazzling Dragonflies: A Life Cycle Story. By Linda Glaser. Illustrated by Mia Posada.

- Websites: <https://agrillife.org/dragonfly/faqs/>
<https://uwm.edu/field-station/dragonfly-swarm/>



by Thomas Shahan.
Wikimedia.

Blue Dasher female. Notice how the eyes take up most of the head. *Touch & smell are the senses in insect antennae. With such good eyes, dragonflies hardly use touch or smell, so d'flies have tiny antennae.* Many moths & beetles need big ones to smell & touch. <https://british-dragonflies.org.uk/odonata/frequently-asked->

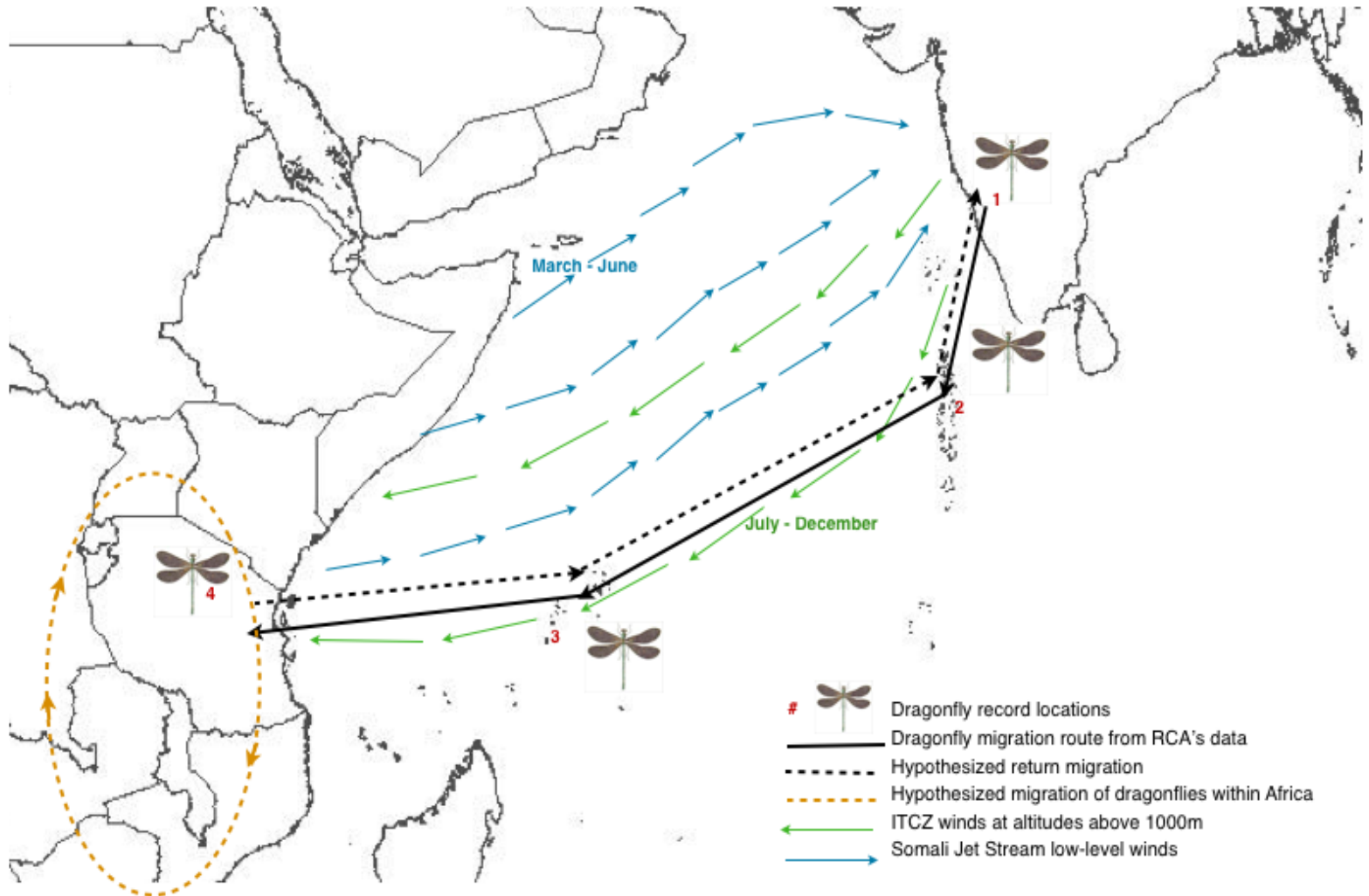
WORD SEARCH

words may go any which way!

abdomen	antennae	aquatic
compound	eggs	emerging
fourwings	head	migration
nymph	ponds	six legs
south	spring	swarm
thorax	wetlands	

V	C	Q	E	P	N	X	O	N	H	F	S	R	S	P
Z	O	O	M	A	W	O	L	W	Y	G	J	G	M	
Z	E	N	M	R	G	I	X	E	P	C	N	O	E	K
J	D	H	O	P	T	U	T	L	Y	O	I	E	L	D
S	B	H	L	A	O	L	L	Q	J	M	W	M	X	W
Z	T	N	R	M	A	U	H	M	A	K	R	E	I	S
V	G	G	A	N	T	E	N	N	A	E	U	R	S	W
N	I	T	D	I	X	R	X	D	U	X	O	G	B	A
M	Y	S	C	S	P	R	I	N	G	W	F	I	V	R
H	R	M	G	I	E	W	T	W	A	H	W	N	P	M
X	R	T	P	G	T	B	N	B	B	S	V	G	O	D
L	K	P	B	H	E	A	U	W	V	O	E	N	U	A
N	E	M	O	D	B	A	U	E	V	E	F	A	K	E
M	M	V	L	H	M	B	H	Q	H	T	U	O	S	H
G	I	J	X	Z	Q	A	G	D	A	W	V	W	U	W

Map showing the migration path of the Indian *Globe Skimmer* dragonfly. from R. Nandini and Sanjay Sane. "Riding the wind between continents: the epic migration of dragonflies." posted on the Migrant Watch blog. The Migrant Watch blog is a website about animals migrating to and from India. (<http://migrantwatch.in/blog/tag/globe-skimmer/>)



Map 1. The India-Africa migratory route of *P. flavescens* as hypothesized by R.C.Anderson. Sites where dragonflies are known to arrive and depart are : 1 - Western Ghats, India 2 - Maldives, 3- Seychelles, 4 - East Africa (Tanzania, with Kenya to the north of it). The rest of the route (return migration to India) is marked according to the trajectory of the Somali Jet Winds, as hypothesized by RCA.



Migrating Globe Skimmer dragonflies (*pantala flavescens*) perched on a branch.

These dragonflies are also called Wandering Gliders.

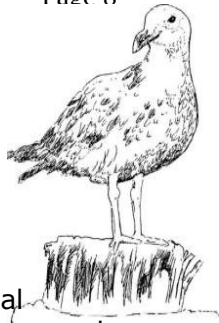
The picture was taken in Talakaveri, a town in Karnataka State in India by L. Shymala. (Wikimedia)

Landfill:

Notes of Gull Watching and Trash Picking in the Anthropocene

by Tim Dee

Reviewed by McKay Stangler



When I lived in the Pinckney neighborhood a few years ago, I walked my dog each morning in Burcham Park alongside the Kansas River. Despite the turgid waters, one of the great joys of those walks came on windy winter mornings, when dozens of ring-billed gulls would gather just offshore. There, facing a stiff southeasterly wind, they would float on the breeze, powered by an occasional flap, making no forward progress but seemingly content to stay in one place, tethered by the wind to one particular square meter of river surface.

What a delight is the gull! Yes, you can criticize it all you want from a birding perspective—its plumage is dull, it's an aggressive consumer, it has invaded parts of the landscape where it does not belong—but before you get too self-righteous, do I detect a bit of humanoid self-loathing? For is it not true that those charges could also be leveled at a certain two-legged species?

The British naturalist Tim Dee is here to rehabilitate the image of the humble gull with his book *Landfill: Notes of Gull Watching and Trash Picking in the Anthropocene*. As the subtitle indicates, this is not merely a book about gulls but about our role—and a very prominent role it is—in shaping gull culture (shall we call it gullture?) and the ecosystems of seabirds in general.

Dee, who also wrote the lovely meditation *Four Fields* and the exquisitely beautiful *A Year on the Wing: Journeys with Birds in Flight*, takes an honest assessment of the problem without simply indulging in knee-jerk blame of humans for all evils in the natural world. Too many nature writers have lately attended classes at the Kingsnorthian School of Lament and Decline; one yearns for the acerbic wit of Edward Abbey here at this late stage of human “progress.”

Mercifully, Dee spins a wonderful yarn about everyone's favorite beach annoyance, and explores why gulls seem to be more ubiquitous, and more irritating, than ever. The short explanation: they go where we go, because we have food. (Meet the new rapidly spreading species, same as the old rapidly spreading species.) Gulls have begun nesting heavily in cities throughout Europe, where plentiful landfills

satisfy all their caloric needs with minimal effort, and where they can nest on rooftops and face almost zero natural predators. Quite the set-up those European gulls have.

The gulls have “made a nutrient-rich sea out of Bristol's food waste and a marine archipelago out of its unlovely rooftops,” Dee writes of his hometown. Efforts at recycling and composting can only do so much, of course, as the human onslaught of garbage production and food waste carries on virtually without cease. And yet Dee loves the gull, admires the gull, sees the gull as “a serious bird among clowns.”

By that Dee means that the gull has often been more than a bird in human history: it has been a harbinger, an omen, a seer, a spirit, and a guide. He explores Dickens, Samuel Beckett, the Bible, and, of course, the landmark Hitchcock film *The Birds* (itself based on a story by Daphne de Maurier). Today, alas, the gull is too often a trash-seeker, invading human areas in search of what scientists (apparently) call “PAFS”: “predictable anthropogenic food subsidies.” Put more simply: the stuff we throw out. Which is a lot, of course; only when you start composting do you realize just how much food you've been throwing in the garbage.

Dee is an amiable guide, and one who truly loves birds. “I have lived my life under birds and I cannot remember a single birdless day.” Surely many readers of this newsletter have had this very sentiment. He admires gulls for their pluck, their tenacity, their evenhanded encroachment of what we see as purely human territory. Their steady, largely impassive faces seem to intimidate us in a way the curious head-tilt of, say, the cardinal does not, especially when the skittish cardinal would never swoop down and seize your beach-side snack.

And here we are, humans and gulls, seemingly as inseparable from our lifestyles as coyotes and rats. As Dee concludes, “they'll be with us for the duration of this, our late hour.”

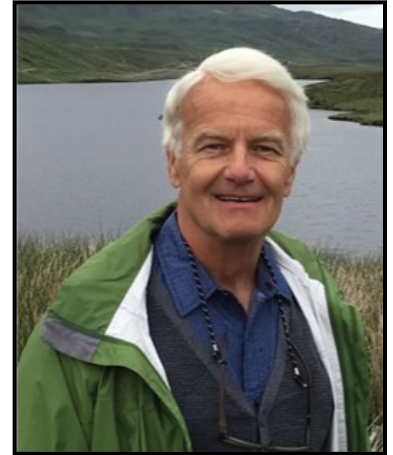
(Ed's note: For a story about a city using trained hawks and falcons to control gulls because they so boldly snatch food from beach visitors, see <https://www.nytimes.com/2019/08/15/nyregion/ocean-city-nj-seagulls.html>)

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Tony Schmidt, Sept. 23
presenter on climate.

Become a Member: Just \$20 to join both National and Jayhawk Audubon.

____ **National Audubon Society membership is \$20.00.** Members receive four issues per year of the Audubon magazine and will be enlisted as members of their closest chapter. Members also receive 9 issues per year of the JAS newsletter and are entitled to discounts on the books and feeders we sell to raise funds to support education and conservation projects. (Make your check payable to National Audubon Society and mail to our JAS membership chair at the address below.) You may also join National Audubon online at https://secure.audubon.org/site/Donation2?df_id=9431&9431.donation=form1&s_src=2015_AUDHP_topbanner-button-menu.)

____ **Chapter-only membership to Jayhawk Audubon Society is \$10.00.** (Make check payable to Jayhawk Audubon Society.) You will not receive the Audubon magazine. *Those with National Audubon memberships are encouraged to support the chapter by voluntarily paying these dues.* Chapter memberships are good for one year. JAS is a 501(c)(3) nonprofit organization. Donations are tax deductible.

____ **To join or donate to Audubon of Kansas** make check payable to AOK or use this online link - <http://www.audubonofkansas.org/joindonate/>.

Please send this completed form & your check to our JAS Membership Chair:

Wayne Kennedy, P.O. Box 442111, Lawrence, KS 66044. E-mail contact: w.a.k.e.n.n.z@gmail.com .

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