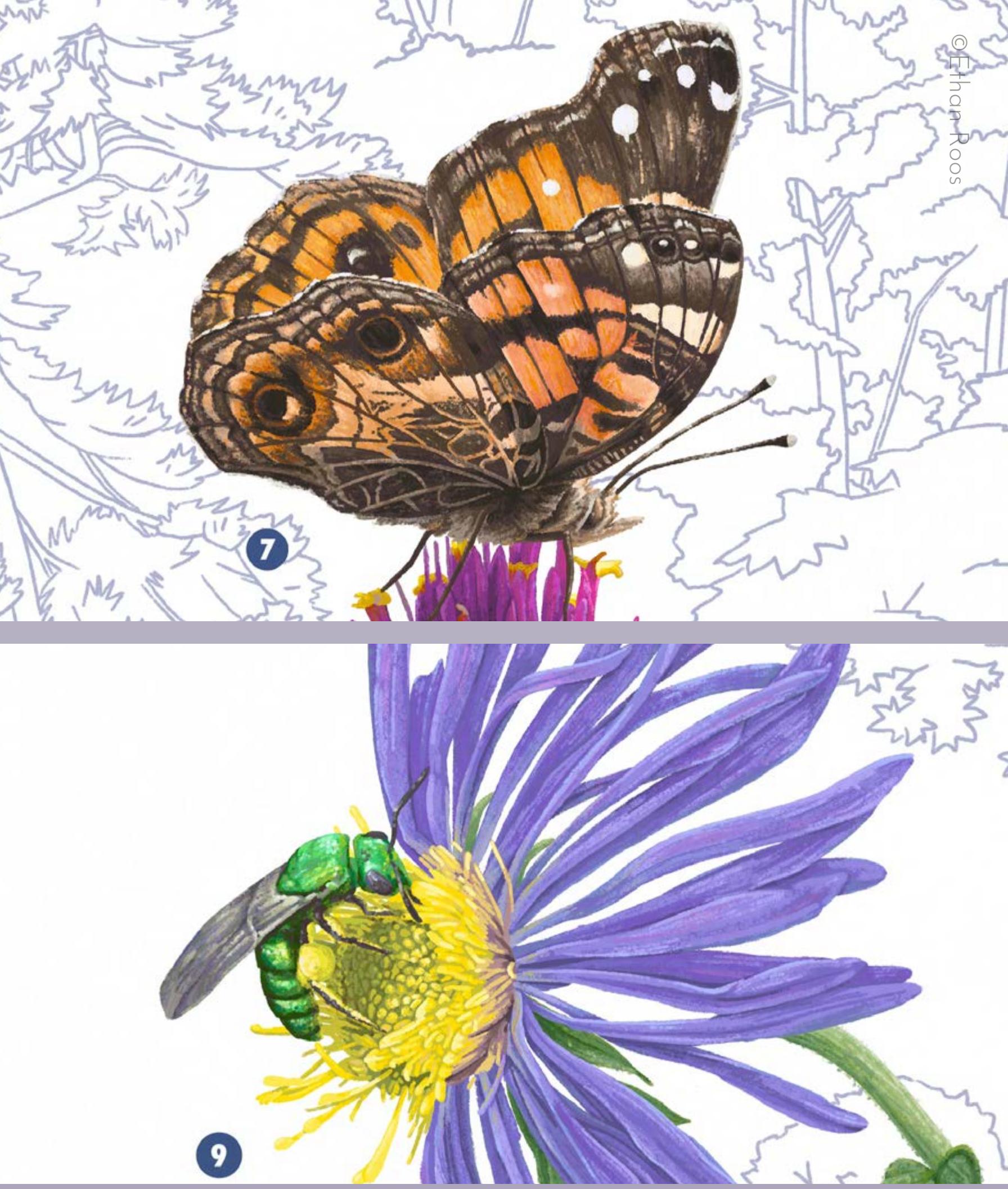


Ethan Roos

Science & Nature Illustrator

Central Park Pollinators

©Ethan Roos



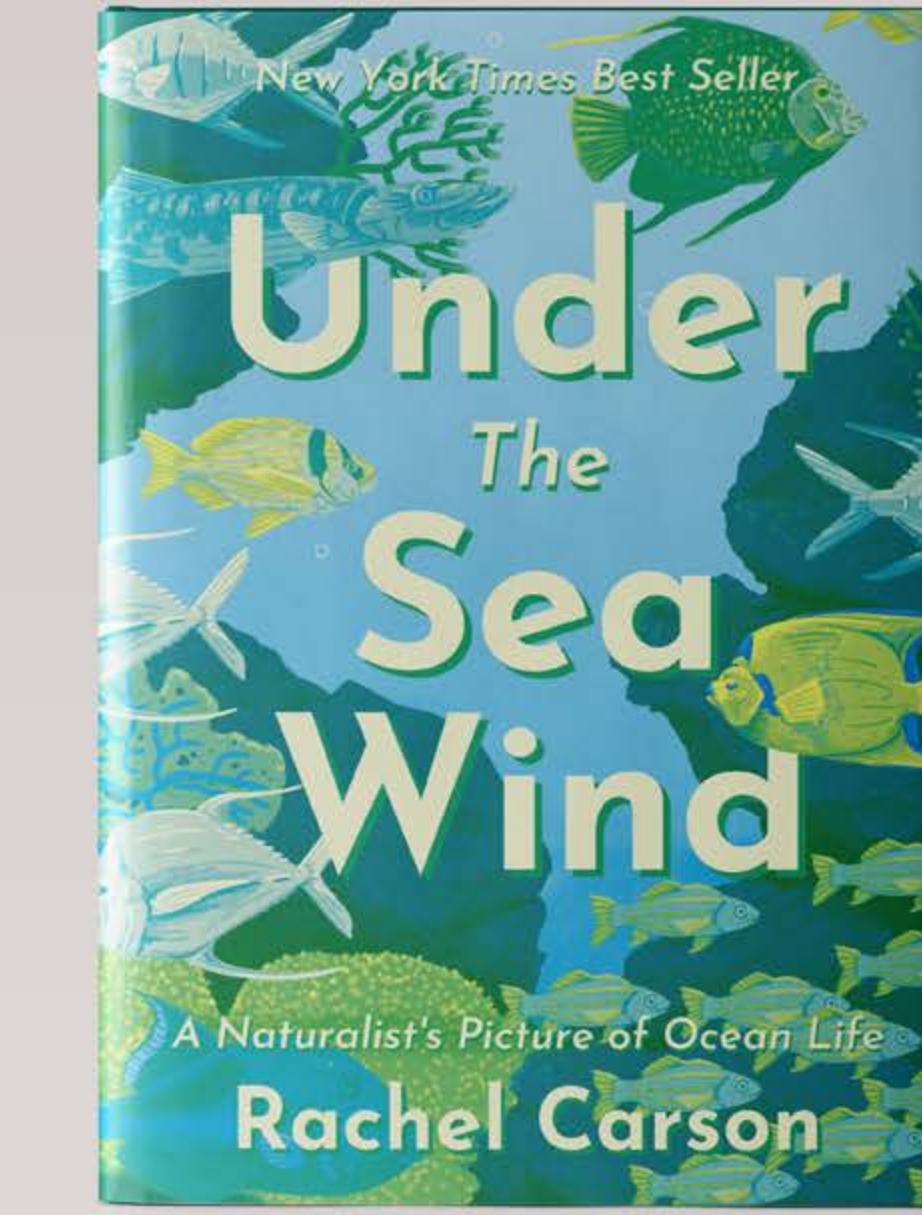
Species List

- 1) Spicebush Swallowtail
Papilio troilus
- 2) Common Bumble Bee
Bombus impatiens
- 3) Cabbage White
Pieris rapae
- 4) European Paper Wasp
Polistes dominula
- 5) Hover Fly
Festucella annulipes
- 6) Monarch Butterfly
Danaus plexippus
- 7) American Lady
Vesperia virginiensis
- 8) Two-spotted Scorpion Fly
Panorpa dubia dubia
- 9) Green Sweat Bee
Agostiniella viridula

*All species are native to New York City
Illustrations by Ethan Roos



Original



Mockups

S
67
JURY
SELECTION

© Ethan Roos



Illustrated Origami Paper



Green Frog
Lithobates clamitans



Risograph Lichen Poster Series (3/5)



Thumbnail



Color Sketch



Original

Mockup

INSIDE LICHEN

WHAT THERE IS
AND WHY IT MATTERS

Katherine Moss

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CORTEX

The cortex is made up of tightly packed fungal cells, and acts as a **PHYSICAL BARRIER** to protect the lichen from water loss and other environmental threats. The cortex can produce **MELANIN** or reflective crystals which shield the algae from excess light. Sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum

MEDULA

The widest layer of a lichen is the medulla, storage space comprised of long fugal cells and viscous fluid where nutrients and water are kept. Many lichens contain **ACID CRYSTALS** which are useful in their identification. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum

EXTRACELLULAR MATRIX

BACTERIUM

BACTERIAL BIOFILM

Lichen accumulate specific bacterial communities on their outer surfaces. These provide **NITROGEN FIXATION**, metabolites and vitamins, pathogen defence, and hormones. Sometimes yeasts are present, though it is unclear how much these contribute. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat

24.000 TIMES LIFESIZE

4.000
TIMES LIFE SIZE

CHLORPLAST

CELL WALL

ALGAE

Unicellular green algae provide lichens with energy in the form of **SUGAR**. Fungal cells support and intimately connect with algal cells, allowing for exchanges of nutrients and water. Some lichen use cyanobacteria as well as or instead of green algae. Duis aute irure dolor dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum

REPRODUCTION

Some lichen reproduce by making **SOREDIA**, balls of algal, fungal, and bacterial cells, which break away and eventually mature into a new lichen. To the naked eye soredia make a lichen look powdery, and their presence or absence is useful in lichen identification. Eillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum

IMPORTANCE OF LICHEN

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INSIDE LICHEN | WHAT THERE IS AND WHY IT MATTERS

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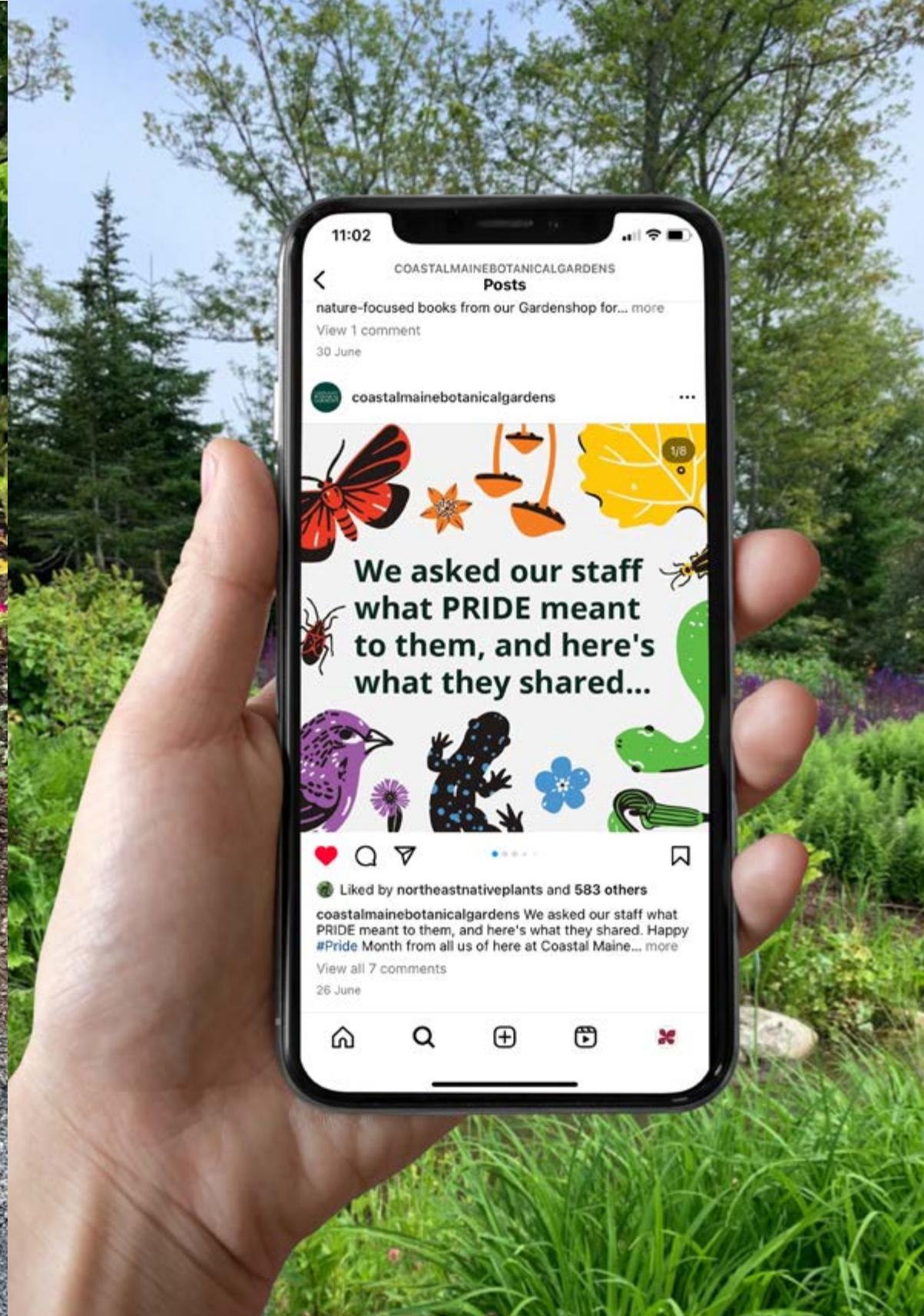
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Mockup



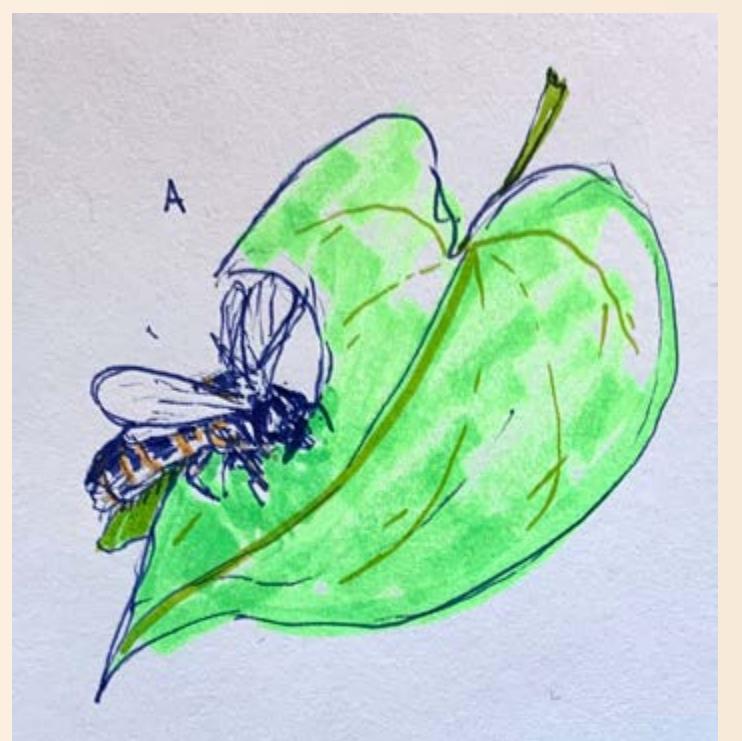
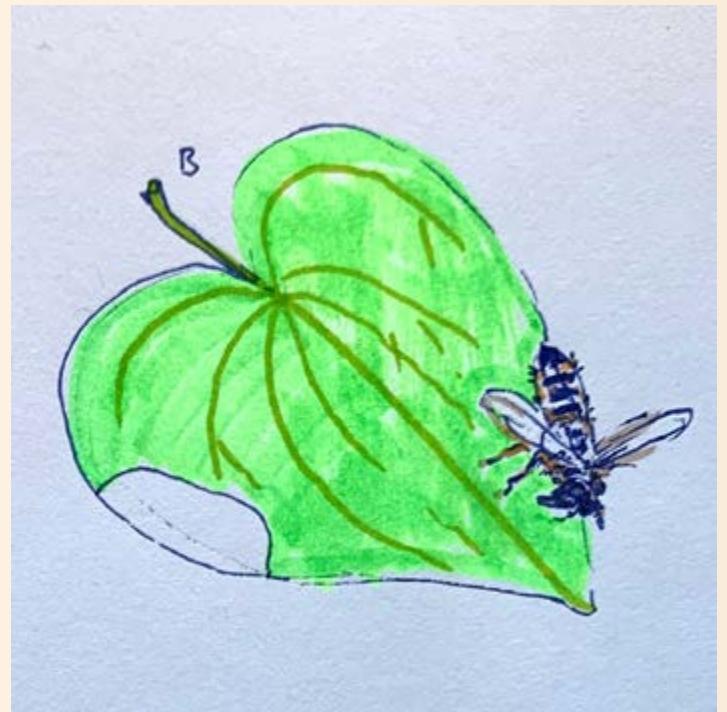
Client uses (their layouts, onsite signage and socials)

Northeast Pride Illustration Pack

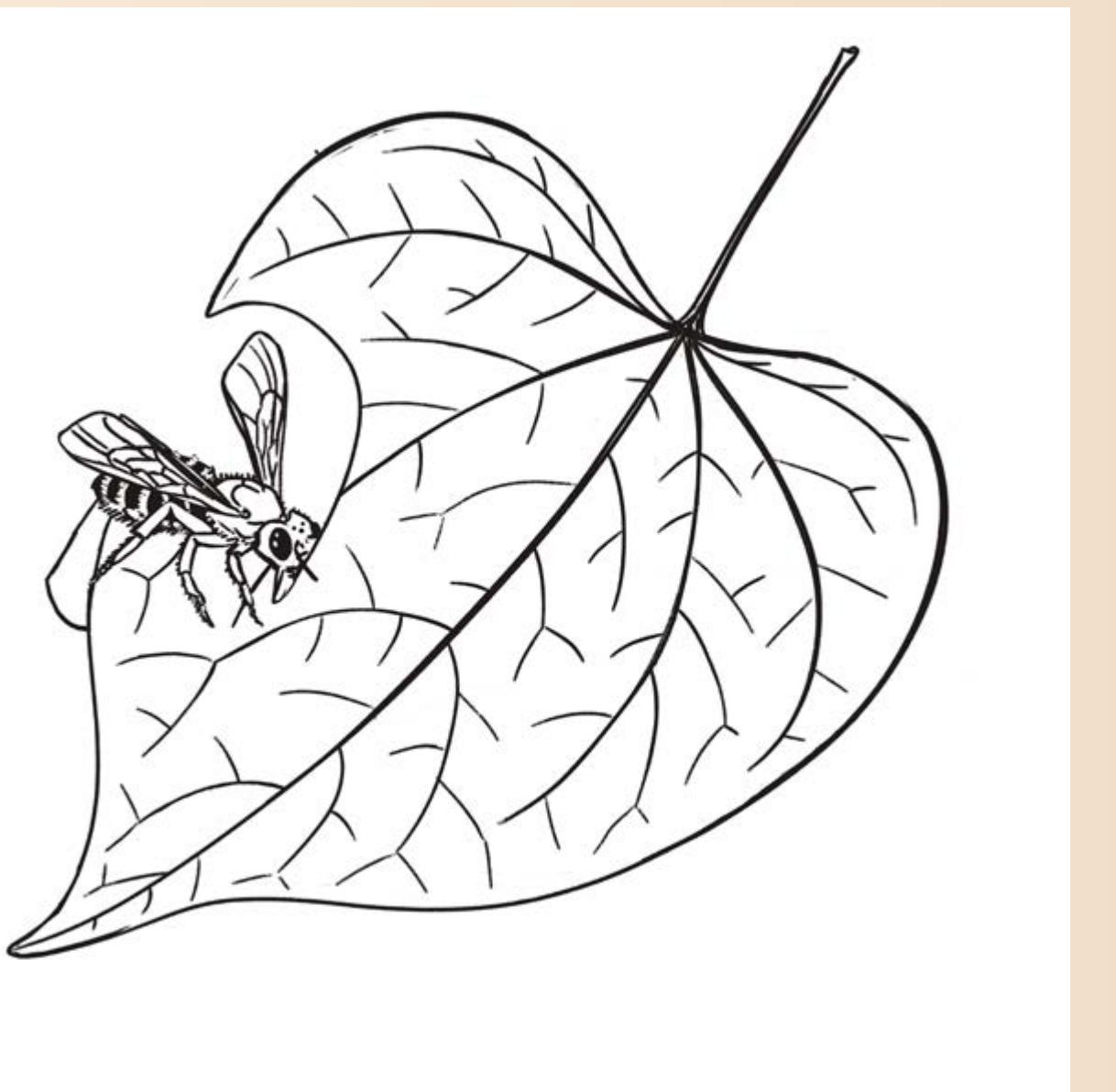
Build community and showcase the diversity of northeastern wildlife with easy-to-use vector graphics suitable for physical or digital applications.

Cover of Pitch deck

Unused Merchandise Mocks



Thumbnail Sketches



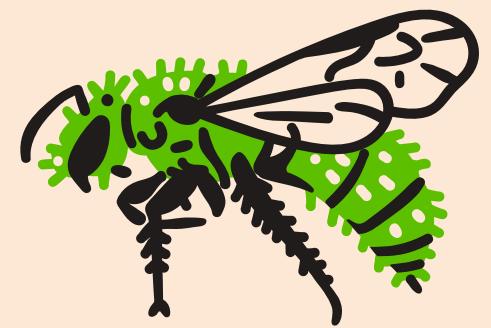
Linework Sketch



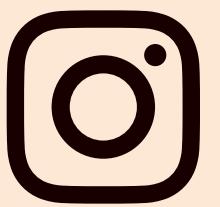
Final on Client's Mock

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AOI Folio: Ethan Roos