# **STATE OF THE HARBOR HERONS**

#### **PROTECTING THE CITY'S WATERBIRDS**



# **NEW YORK CITY'S HARBOR HERONS**

#### THE LARGEST BREEDING POPULATION IN THE NORTHEAST

The Harbor Herons include 10 species of herons, egrets, and ibis, or "wading birds," that nest on wild islands in New York City. NYC Audubon's annual Harbor Herons Nesting Survey has monitored and protected these birds since 1982.

- The Harbor Herons are important indicators of the health of our harbor, due to their role as top predators that feed on fish, crabs, and other invertebrates.
- The Harbor Herons engage people. These large, beautiful birds can be seen foraging in waterways across the City, bringing people to birding and conservation.
- We marshal our 40 years of data to demand protection for these vulnerable species, endangered by development, pollution, and sea-level rise. Our work has helped preserve the Bronx's Brother Islands and islands around Staten Island.

EAST RIVER AND UPPER HARBOR Governors Island Mill Rock North Brother Island South Brother Island U-Thant Island

#### LOWER HARBOR AND STATEN ISLAND AREA

Hoffman Island Isle of Meadows Prall's Island Shooters Island Swinburne Island CURRENT AND POTENTIAL NESTING ISLANDS

#### LONG ISLAND SOUND

Nestling Great Egrets

Cat Briar Island Chimney Sweeps Island Davids Island Goose Island Hart Island High Island Hog Island Huckleberry Island Rat Island

#### JAMAICA BAY

Black Wall Marsh Broad Creek Marsh Canarsie Pol Duck Point Marsh East High Marsh Elders Marsh East and West Joco Marsh Little Egg Marsh Island Ruffle Bar Silver Hole Marsh Stony Point Marsh Subway Island Yellow Bar Hassock

For over 40 years, New York City Audubon has championed nature in the City's five boroughs through a combination of engaging and entertaining programs and innovative conservation campaigns. Through these efforts, we protect the more than 300 species of birds living in the 30,000 acres of wetlands, forests, and grasslands of New York City. Learn more at nycaudubon.org.

### **2023 POPULATIONS AT A GLANCE**

NYC Audubon surveyed 19 harbor islands in 2023. Principal findings:

- 1,398 pairs of 7 wading bird species nested on 6 islands across New York Harbor.
- Black-crowned Night Heron was the most abundant of these, followed by Great Egret, Snowy Egret, and Glossy Ibis, in addition to small numbers of several other species.



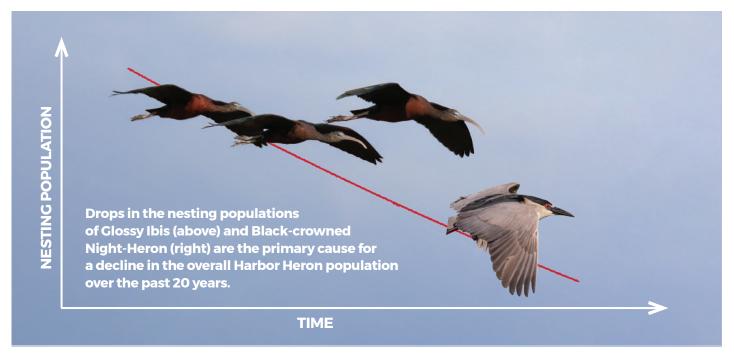
# **GOOD NEWS**

- While several Jamaica Bay island colonies have been abandoned in recent years, in 2023 breeding wading birds shifted to other islands in the Bay, demonstrating resilience in the face of disturbance and rising sea levels.
- Great Blue Herons nested in Manhattan, a first in modern times! This largest of the City's wading bird species, which typically nests in quiet and remote areas, has also nested recently on mainland Staten Island and on islands in the Bronx.



## **CAUSES FOR ALARM**

- The Harbor Heron nesting population has declined since 2000, a trend driven primarily by declines in two species: Black-crowned Night-Heron and Glossy Ibis.
- Local reductions in these species parallel a fall in regional populations found by other researchers along the East Coast.
- NYC Audubon's definitive findings will be published in 2024.



#### WHY ARE THE HARBOR HERONS **IN TROUBLE?**

A number of factors at both a global and local scale endanger the welfare of New York City's Harbor Heron colonies.



HUMAN DISTURBANCE: Often unknowingly, New Yorkers visit the birds' breeding colonies during nesting season, causing parents to abandon their young.



**PREDATORS:** Food items discarded by residents support an artificially dense population of mammals like raccoons in New York City. When such "subsidized" predators access an island, nesting birds may abandon it for decades.



POLLUTION: The health of our harbor has improved in recent decades, but plastics and other chemical contaminants may affect wading birds' breeding productivity in ways we don't yet understand.



**CLIMATE CHANGE:** The low-lying Harbor Heron Islands are vulnerable to flooding from sea-level rise and increased bighting increased high-intensity storms. Changes in seasonal timing are also likely impacting the birds' populations.

# **HOW CAN I HELP?**

- Protect the islands by helping us to minimize disturbance from both humans and subsidized predators.
- Improve water quality by supporting sound stormwater policy and the creation of more green infrastructure in the City.
- Share your love of the Harbor Herons by talking to your family, friends and local representatives about the importance of protecting New York City's waterbirds. Learn more at nycaudubon.org/harbor-herons.
- Support our work: NYC Audubon is the only organization studying the decline of wading bird species like the Blackcrowned Night-Heron in New York Harbor, and using that data to secure greater state and federal protections.

You can help protect these endangered birds by giving to NYC Audubon today. Contribute online by visiting nycaudubon.org/donate

or by scanning the QR code at right with your mobile device.



The rich blue eggs of Glossy Ibis are particularly vulnerable because the birds nest just inches from the ground.



#### THANK YOU TO OUR SUPPORTERS

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REPORT GRAPHICS: Cover – photo by Diana Robinson/CC BY-NC-ND 2.0. P.1 - photo by Chris Girgenti; map courtesy of Google Maps. P.2 – background photo by Dustin Partridge, PhD. Others clockwise by Veit Irtenkauf/CC BY-ND 2.0; D. Bruce Yolton; Dave Ostapiuk; Lloyd Spitalnik; Don Miller/CC BY 2.0; Matthew Paulson/CC BY-NC-ND 2.0; Rejean Bedard. P.3 – top by Dave Ostapiuk; bottom by Isaac Grant (ibis), Andy Morffew/ CC BY 2.0 (night-heron). P.4 – photo by Dustin Partridge, PhD. Back cover – both photos by Don Riepe.



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NYC Audubon is a grassroots community that works for the protection of wild birds and habitat in the five boroughs, improving the quality of life for all New Yorkers.