### ACCOMPLISHMENTS

Partners throughout the Flyway are addressing threats to shorebirds and working towards meeting the goal of increasing shorebird populations 10% by 2025. Below are some examples of conservation on the ground.

## LEGEND



Monitoring, habitat protection, and stewardship of Piping Plover in Nova Scotia.

Habitat protection Monomoy National Wildlife Refuge.

Abitat protection Cape Hatteras National Seashore.

Posted nesting areas and monitored productivity.

Experimentally evaluating conditioned aversion methods to decrease egg predation by Fish Crows.

Caribbean Waterbird Census in Bonaire.

Partnering with governments and communities to raise awareness and regulate hunting.

#### **GET INVOLVED**

There are many ways to be part of the effort to increase shorebird populations throughout the Atlantic Flyway. Check out our website to learn how to get involved and to see the full suite of accomplishments at: <u>http://atlanticflywayshorebirds.org</u> or contact <u>Scott\_Johnston@fws.gov.</u>

> Restoring rangers and equipment () to protect key habitats.

Habitat protection at Estuario del Río Gallegos, Argentina. 🔇

Shorebird surveys conducted to determine population size & migration timing at different sites along the coast of Brazil.

PRIORITY SPECIES IN SOUTH AMERICA\* White-rumped Sandpiper

Hudsonian Godwit Rufous-chested Dotterel Magellanic Plover Two-banded Plover

\*Species added to address the needs of high priority resident species in South America.



# **EXECUTIVE SUMMARY** Atlantic Flyway Shorebird Initiative



A Business Plan

2017



## LIVING ON THE EDGE

Recognizing the decline of migratory shorebird populations throughout the Atlantic Flyway in the Americas, a partnership of government agencies, conservation organizations, and academics, developed an ambitious business plan to reverse declining population trends and build a foundation to safeguard the phenomenon of migration. Together, the actions outlined should sustain shorebird populations throughout the Flyway.

Shorebirds travel thousands of miles each year between the tundra of the Arctic and the windswept beaches of Tierra del Fuego. The majority of borealarctic shorebirds breeding in Alaska and Canada (60 of the 75 North American populations) spend their non-breeding period in South American or Caribbean countries. Annual round-trip migration usually requires a sequence of flights between two or more stopover sites that connect breeding and non-breeding habitats.



These data come from the International Shorebird Survey, the Atlantic Canada Shorebird Survey and the Ontario Shorebird Survey and fall in to the category of "monitoring indices of population status". Courtesy of Environment and Climate Change Canada / Government of Canada The fifteen focal species identified in the AFSI Business Plan have wide ranging migration routes; at 10,000 miles, the Red Knot breeds in the Arctic and winters in Tierra del Fuego at the tip of South America.

Protecting all stopover links along the migratory pathway is a critical component of shorebird conservation. The degradation of just one site can have a profound and catastrophic impact on a species. Implementing full annual cycle conservation across large geographic and cultural landscapes requires long- term vision and commitment to a sustained effort over many years. The

flyway approach described herein provides a road map for a coordinated effort involving multiple organizations working together across political boundaries to effectively conserve Atlantic Flyway shorebirds.

#### FOCAL SPECIES

American Golden Plover American Oystercatcher Greater Yellowlegs Lesser Yellowlegs Marbled Godwit Piping Plover Purple Sandpiper Red-necked Phalarope

Red Knot Ruddy Turnstone Sanderling Semipalmated Sandpiper **Snowy Plover** Whimbrel Wilson's Plover



#### **MAJOR THREATS**

The business plan is built on an assumption that adequate Overall, shorebirds face numerous threats across multiple geographies and political landscapes during their annual funds can be raised over a 10-year period and effectively invested in activities to achieve our goal. To do this, the cycle. To slow or reverse shorebird population declines, AFSI partnership will need to raise an estimated \$90 four primary anthropogenic threats have been identified million. as key mortality sources for Atlantic Flyway shorebirds:

• *habitat loss and change;* 

Including:

- residential and commercial development;
- coastal engineering;
- incompatible management; and
- invasive plants and invertebrates.
- human disturbance;
- *hunting*; and
- predation.

An assessment of the overall threat ratings throughout the flyway highlights *habitat loss and change as the* primary stressor on shorebird Focal Species along the Atlantic Flyway.

#### **IMPLEMENTATION**

To implement the business plan the most serious humaninduced threats affecting shorebird species and their habitats along the Atlantic Flyway are addresses with five key strategies:

- 1. manage and protect critical habitat;
- 2. minimize predation impacts;
- 3. reduce human disturbance;
- 4. reduce hunting pressure; and
- 5. fill knowledge gaps.

Each strategy has associated actions and objectives. The implementation of these strategies will lead to a 10 to 15 percent increase in shorebird Focal Species population levels.

## FUNDING NEEDS

The successful implementation of the business plan will require a collaborative effort to secure funding from Federal and state governments; multilateral and bilateral agencies; foundations; and individuals.

BUDGET	
Period - 10 years	USD
1a. Manage and protect critical habitat Commercial and residential development	21,410,000
1b. Manage and protect critical habitat Incompatible coastal engineering	4,700,000
1c. Manage and protect critical habitat Incompatible natural resource management	8,060,000
1d. Manage and protect critical habitat Invasive species management	3,320,000
2. Minimize predation impacts	10,940,000
3. Reduce human disturbance	30,565,00
4. Reduce hunting pressure	3,450,000
5. Fill knowledge gaps	7,935,000
TOTAL	90,380,000

Over the duration of the business plan, the bulk of resources required to achieve a 10 to 15 percent increase in shorebird Focal Species will be invested to: (1) manage and protect critical habitat; (2) reduce human disturbance; (3) minimize predation; and (4) reduce hunting pressure. Combined, these three strategies represent more than 65 percent of the total budget. In the shortterm, resources will be required to fill in critical information gaps needed to inform investments in each of these three major threat-reduction strategies (e.g., assess the status of priority shorebird sites, estimate population trends, determine reproductive success of beach nesting species).

*"Like the resources it seeks to protect, wildlife conservation must be dynamic, changing* as conditions change, seeking always to become more effective." Rachel Carson