



SouthWings

CONSERVATION
THROUGH
AVIATION



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Hume Davenport
Executive Director

Outline

- SouthWings – History and Mission
- Appalachia to Atlantic Flight Work
- Gulf Flight Work
- Chesapeake Issues and Partners
- Fleet and Pilot Recruitment
- Fly with SouthWings

History



- Headquarters, Appalachia to Atlantic
 - Asheville, North Carolina - 1998
- Gulf Program Office
 - New Orleans, Louisiana - 2012
- Chesapeake Program Office
 - Annapolis, Maryland - 2016

A photograph taken from underneath the wing of a large aircraft, showing the complex structure of the wing and fuselage against a clear blue sky. The wing's surface is metallic and features several circular access panels. The perspective is from a low angle, looking up at the underside of the wing.

SouthWings Mission

SouthWings flies to uncover and mitigate environmental challenges related to climate change and watershed protection.

We welcome a broad range of stakeholders to see firsthand the scope and scale of issues such as sea level rise, water pollution, community vulnerability, deforestation, and mountaintop removal coal mining. Our flights shape perspectives on the actions needed to stop and reverse these problems. We fly to promote environmental policy and planning, scientific research, public awareness and action, and ecosystem protection.

How SouthWings Operates

Our volunteer pilots offer a bird's eye view of conservation issues through:

- Monitoring and survey flights
- Litigation
- Media Flights
- Educational flights for decision makers





Kristin Reilly



Chante Coleman



Choose Clean Water Coalition



Ann Swanson

Chesapeake Bay Commission



Jackie Guild



Molly Brown



Chesapeake Legal Alliance

Appalachia to Atlantic Flight Work

- Dogwood Alliance and Forestry Reform







Appalachia to Atlantic Flight Work

- Mountaintop Removal for Coal Mining





Photo credit Shmerling 2010



Photo credit Shmerling 2010



Photo credit Shmerling 2010



Gulf Flight Work

BP Oil Spill







J Henry Fair ©2010



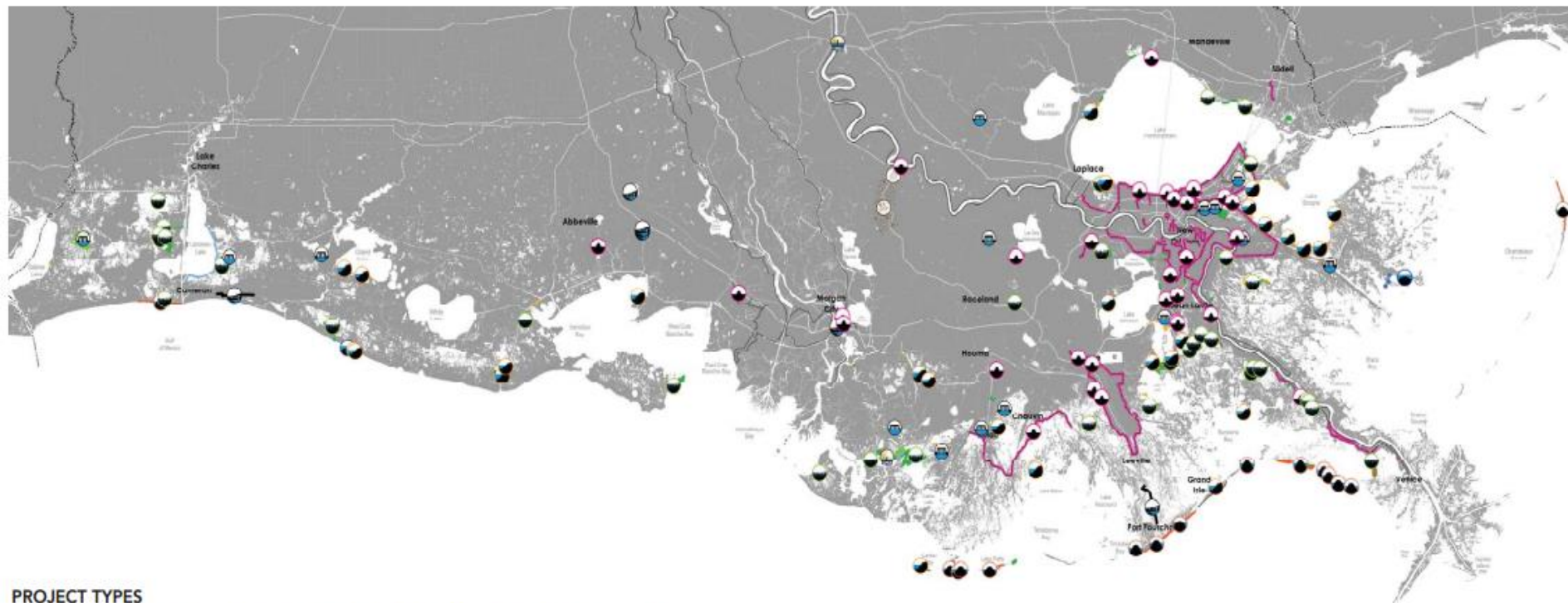
Gulf Program: Land Loss in Coastal Louisiana



Photo: Gulf Restoration Network

PROGRESS SINCE 2007

PROJECTS COMPLETED OR FUNDED FOR CONSTRUCTION



PROJECT TYPES



▲ FIGURE ES.1

Projects completed or funded for construction since 2007. Hurricane protection levee segments depicted here represent only those segments that have been built or are funded for construction. Land conservation and vegetative planting and bank stabilization projects are not depicted.

Lake Hermitage Restoration Project

- Gulf Restoration Network
- Wetland terraces
- SouthWings flights identified cells to fill with sediment for vegetation
- 2012 vs. 2015





Photo: David Kidd/Governing. Pilot: Emmet Bartholomew
Left: Ken Knevel and Dr. Alex Kolker



JOHN "JOHNNY" I. SHADDINGER, JR.
MAYOR

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November 5, 2014

Meredith Dowling
Southwings
5500 Pritania St #532
New Orleans, LA 70115

Dear Meredith,

I had a wonderful time flying over the coast line with SouthWings. It was great to see for myself the much needed diversions to preserve our coast line and marsh. This experience was very educational and provided me with a breathtaking view. I believe that the restoration to our coast is essential in providing safety to our residents in the event of future tropical systems.

Also, I would like to thank you, Pilot Bartholomew, and SouthWings for an outstanding flight, warm hospitality, and the nice photo.

Sincerely,

John I. Shaddinger, Jr.
Mayor



An aerial photograph of a long, multi-span bridge crossing a wide body of water. The bridge is a steel truss structure with several tall towers. The water is a deep blue, and the surrounding land is a mix of green and brown, with some buildings visible in the distance. The bridge extends from the bottom left towards the top center of the frame.

Chesapeake Program

Photo credit: Will Parson, Chesapeake Bay Program

Priority Issues in Chesapeake Bay

An aerial photograph of the Chesapeake Bay region. The water is a mix of dark blue and green, with visible patterns of sediment or algae. The shoreline is lined with green trees and some residential buildings. Several long wooden piers extend into the water, with small boats docked at them. The overall scene depicts a coastal area with significant water body and land interaction.

- Sea Level Rise
- Coastal Resilience
- CAFOs/Agricultural Runoff
- Algae Blooms
- Fisheries and Wildlife

Photo credit: Will Parson, Chesapeake Bay Program

Chesapeake Partnerships to Date

EPA Chesapeake Bay Program

Chesapeake Legal Alliance

Bay Journal

Choose Clean Water Coalition

Waterkeepers Chesapeake

Chesapeake Conservancy

Patuxent Wildlife Research Center

Virginia Institute of Marine Sciences

Chesapeake Bay Commission

University of Maryland Center for Environmental Studies

Maryland Sea Grant

Virginia Sea Grant

DolphinWatch

American Resilience Project

Annapolis Green



Virginia Institute of Marine Science

Matthew Kirwan – socio-ecological studies
Deal Island – Coastal Resilience and Sea Level Rise

Photo credit: Matthew Kirwan, VIMS

Tangier Island



Smith Island



Cedar Creek Farm – Sea Level Rise



Photo credit: Matthew Kirwan, VIMS



Waterkeepers Chesapeake Fair Farms Campaign CAFOs

- poultry farms
- discharge



Chesapeake Legal Alliance







Photo credit Shannon Lyons



Photo credit Shannon Lyons

CAFO – Maryland General Discharge Permit



Photo credit: Kathy Phillips, Assateague Coastkeeper

Ayers Creek Bacteria Monitoring



Photo credit: Kathy Phillips, Assateague Coastkeeper

Conowingo Dam



Photo Credit Michael Fincham, Maryland Sea Grant

EPA Chesapeake Bay Program



Photo credits Will Parson, Chesapeake Bay Program

Bay Journal

Volunteer pilots offer environmentalists an “eye in the sky”



January 12, 2017



Patuxent Wildlife Research Center, USGS Louisiana Department of Wildlife & Fisheries



Are You My Mother? These Birds Must Never Know
Wall Street Journal, December 13, 2016

DolphinWatch

<http://www.umces.edu/dolphinwatch>



American Resilience Project: Tidewater

- Hampton Roads – national security
- D.C. Environmental Film Festival, March 20



Photo credits: Jon Engle, Green Eyes Aero; Brian Creed

Tidewater Film



25 YEARS
ENVIRONMENTAL
FILM FESTIVAL
IN THE NATION'S CAPITAL



Tidewater

Directed and produced by Roger Sorkin
Presented with EARTHx Film & Earth Day Texas

DCEFF.ORG



OFFICIAL SELECTION
SAN FRANCISCO
GREEN FILM FESTIVAL
2017

EARTHxFilm
OFFICIAL SELECTION
2017

OFFICIAL SELECTION
ENVIRONMENTAL
FILM FESTIVAL
IN THE NATION'S CAPITAL
2017

AMERICAN RESILIENCE PROJECT
PRESENTS A FILM BY
ROGER SORKIN

TIDEWATER

Water is rising, land is sinking,
but the military is here to stay.

SORKIN STRATEGIC COMMUNICATIONS in association with AMERICAN RESILIENCE PROJECT present "TIDEWATER"
Written and Produced by ROGER SORKIN and NATE BIRNBAUM • Edited by ROGER SORKIN
Story Consultants CHRISTOPHER SEWARD and ALAN STRASSER • Music by JOHN CABAN • Directed by ROGER SORKIN



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SouthWings Fly-In October 27-29, 2017
Chesapeake Bay Environmental Center

[Come Fly with Us!](#)

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SouthWings Fleet and Pilot Recruitment

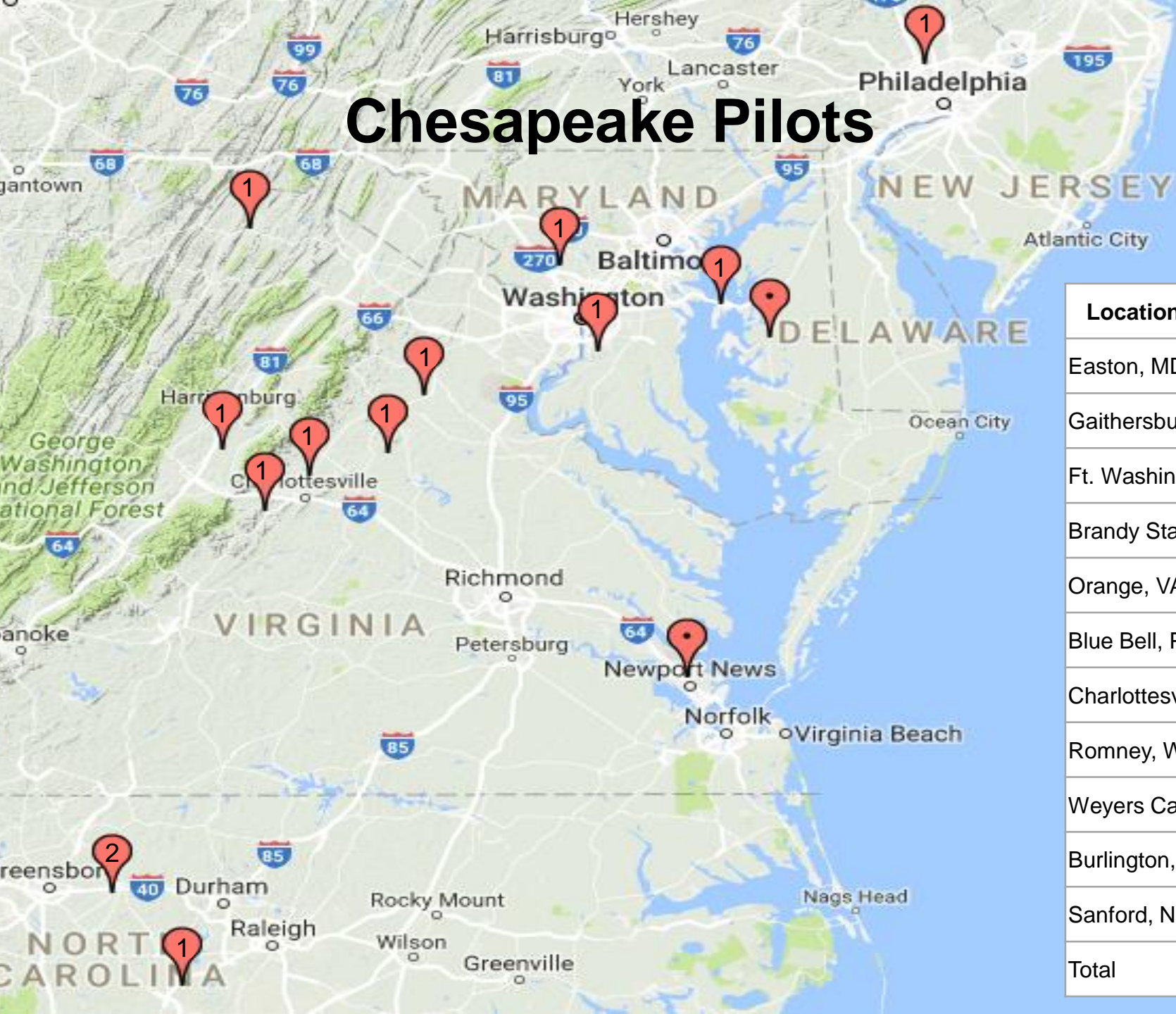


Photo credit: Jon Engle, Green Eyes Aero

SouthWings Fleet



Chesapeake Pilots



Location, # of Pilots	
Easton, MD	1
Gaithersburg, MD	1
Ft. Washington, MD	1
Brandy Station, VA	1
Orange, VA	1
Blue Bell, PA	1
Charlottesville, VA	2
Romney, WV	1
Weyers Cave, VA	1
Burlington, NC	2
Sanford, NC	1
Total	13