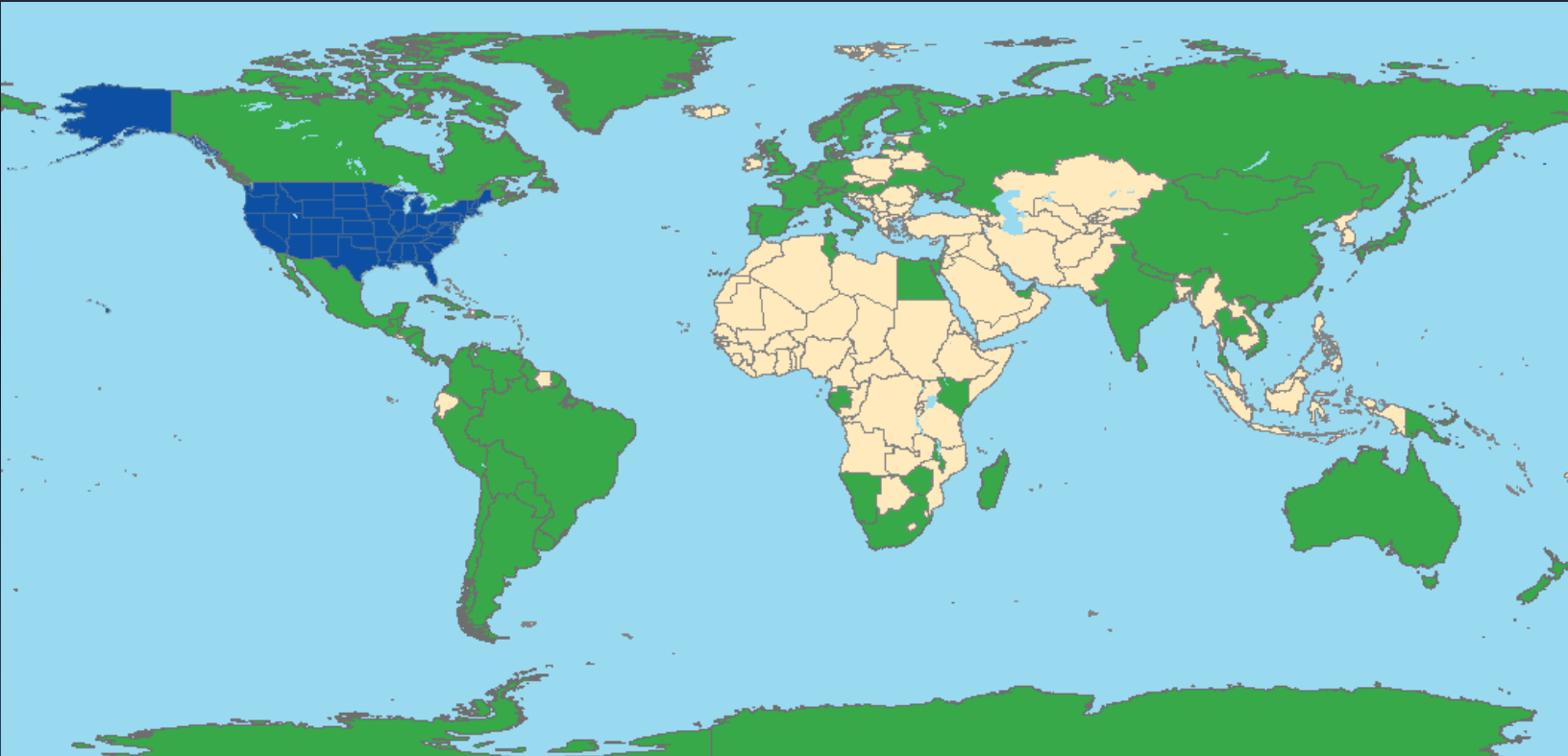


# SEVEN CONTINENTS OF SCIENCE: PATUXENT'S GLOBAL IMPACTS & PARTNERSHIPS 1946-2011

# PATUXENT

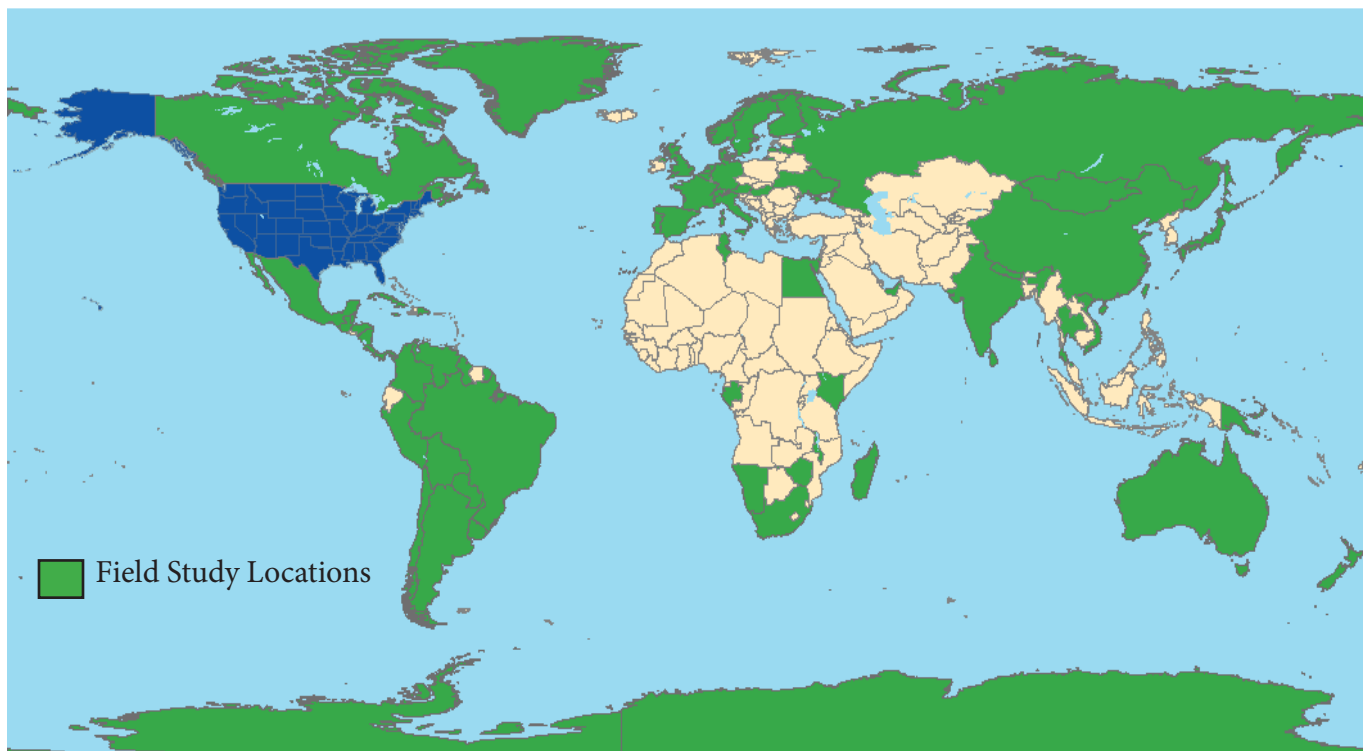


# WILDLIFE RESEARCH CENTER

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## INTRODUCTION

The Patuxent Wildlife Research Center (PWRC) has created a vast and comprehensive body of scientific publications, global databases, and international partnerships over the past 75 years. The far-reaching scope of Patuxent's scientific achievements span seven continents and 76 countries, involving literally generations of scientists, partners, and students. The global impact of these scientific products, observations, data, insights, education, training, and mentorships represents both a long-lasting legacy and a promise for the future.

### SCIENCE DIPLOMACY

PWRC scientists have produced over 540 peer-reviewed publications with an international focus. Two hundred of these publications resulted from field studies in other countries, coded [IR]; 415 involved international collaborators, coded [SC]. Nearly half of the foreign field studies also included international cooperators as co-authors, demonstrating the full extent of these partnerships. The taxonomic breadth of the international studies range from birds (256), to mammals (95), to herpetofauna (35) or combinations of these taxa. Many publications focused on contaminants (39) which reflect the long history of PWRC's work in that arena, as well as the dedication to sharing that expertise beyond the United States. The extensive history of publishing research papers with international authors represents a commitment to sharing scientific expertise with a broad base of scientists, including graduate students and postdoctoral students across the globe. In the long run, this robust scientific dialogue and partnership may be one of the most significant contribution that PWRC has made in the field of conservation.

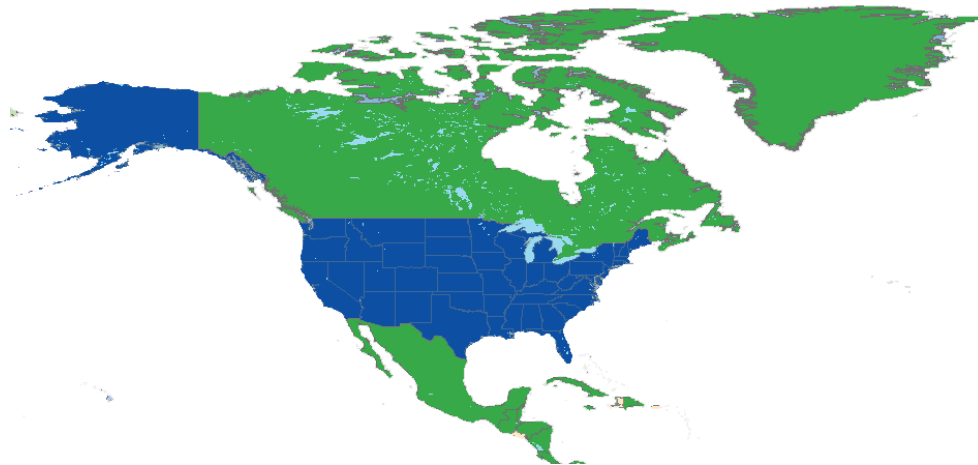
## **NORTH AMERICAN BREEDING BIRD SURVEY (BBS)**

International in scope since its inception in 1966, the North American Breeding Bird Survey is a long-term, large-scale avian monitoring program established to provide scientifically credible measures of avian populations. These measures include population trend estimates, relative abundance estimates, and distribution information on more than 420 bird species that are used, along with other indicators, by federal, state and provincial government agencies and other conservation practitioners for regional and national population assessments. Jointly coordinated by the U.S. Geological Survey and the Canadian Wildlife Service through 2007, the BBS became a truly North American program in 2008 when the Mexican National Commission for the Knowledge and Use of Biodiversity joined the partnership and initiated the BBS expansion into northern Mexico. Today more than 200,000 sample locations are distributed among 49 U.S. states, 13 Canadian provinces and territories, and 5 Mexican states which provide over 1,000,000 unique data records annually.

## **USGS BIRD BANDING LABORATORY (BBL)**

Beginning in the 1920s, the USGS Bird Banding Laboratory has collaborated with the Bird Banding Office of the Canadian Wildlife Service to jointly administer the North American Bird Banding Program. Each banding office is responsible for administering the bird banding permits issued in their respective country and there is a long history of close communication between these offices to meet the ever evolving needs of the North American bird banding community. In addition, the BBL supplies most of the bands used by Canadian bird banders. The BBL also manages and maintains an electronic data management system that houses over 12 million Canadian bird banding records obtained since 1960 and approximately 500,000 encounters of Canadian banded birds. This close cooperation continues into the future as a new Memorandum Of Understanding between the USGS and Environment Canada is nearing approval that will formalize future collaborative efforts between the USA and Canada in the management of the North American Bird Banding Program.

The bird banding and band encounter databases maintained by the BBL provide a valuable resource of the status, distribution, and movements of birds at an international scale. While most bird banding data have been obtained within the USA and Canada, there have also been important collaborative banding efforts with scientists in Antarctica and Russia. US bird banders have also conducted banding projects in a number of countries in the Western Hemisphere, most notably in Mexico, Costa Rica, Panama, the Bahamas, and Jamaica. Reports of birds wearing USGS bird bands have been received from every continent, demonstrating the global patterns of movements of North American birds.



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### **United Arab Emirates**

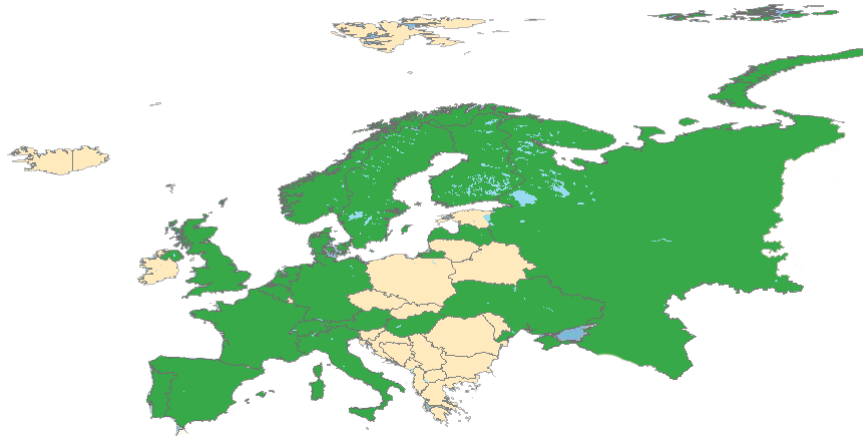
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